



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 09:24 PM GMT

PDB ID : 4V4Z  
Title : 70S Thermus thermophilus ribosome functional complex with mRNA and E- and P-site tRNAs at 4.5Å.  
Authors : Jenner, L.; Yusupova, G.; Rees, B.; Moras, D.; Yusupov, M.  
Deposited on : 2006-06-27  
Resolution : 4.51 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.  
We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at  
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.7 (RC4), CSD as536be (2015)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20026688  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk26865

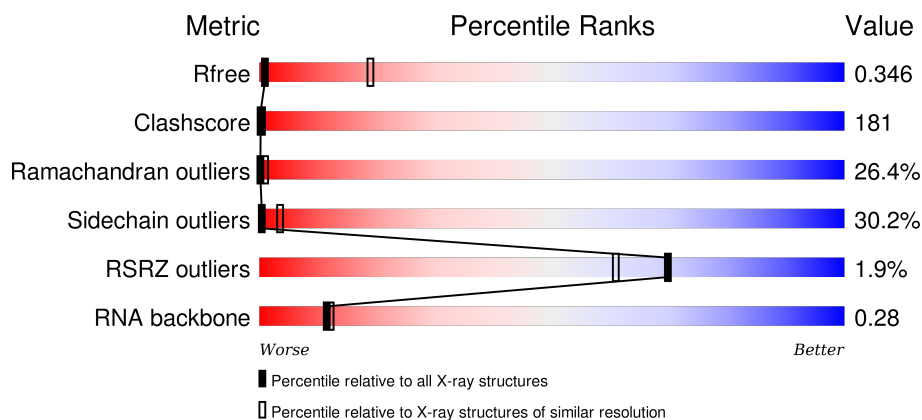
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 4.51 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)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	91344	1071 (5.40-3.60)
Clashscore	102246	1004 (5.40-3.62)
Ramachandran outliers	100387	1117 (5.40-3.60)
Sidechain outliers	100360	1099 (5.40-3.60)
RSRZ outliers	91569	1075 (5.40-3.60)
RNA backbone	2183	1091 (6.22-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	1522	
2	AC	76	
3	AD	76	
4	A1	27	

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Mol	Chain	Length	Quality of chain
5	AE	256	
6	AF	239	
7	AG	209	
8	AH	162	
9	AI	101	
10	AJ	156	
11	AK	138	
12	AL	128	
13	AM	105	
14	AN	129	
15	AO	132	
16	AP	126	
17	AQ	61	
18	AR	89	
19	AS	88	
20	AT	105	
21	AU	88	
22	AV	93	
23	AW	106	
24	AX	27	
25	BA	2916	
26	BB	123	
27	BC	229	
28	BD	276	
29	BE	206	

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Mol	Chain	Length	Quality of chain
30	BF	210	
31	BG	182	
32	BH	180	
33	BK	148	
34	BL	147	
35	BM	140	
36	BN	122	
37	BO	150	
38	BP	141	
39	BQ	118	
40	BR	112	
41	BS	146	
42	BT	118	
43	BU	101	
44	BV	113	
45	BW	96	
46	BX	110	
47	BY	206	
48	BZ	85	
49	B1	67	
50	B2	60	
51	B3	71	
52	B4	60	
53	B5	54	
54	B6	49	

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Mol	Chain	Length	Quality of chain
55	B7	65	<div><div></div><div>46%</div><div>43%</div><div>9%</div><div></div></div>
56	B8	37	<div><div>8%</div><div>46%</div><div>38%</div><div>8%</div></div>

## 2 Entry composition

There are 56 unique types of molecules in this entry. The entry contains 149640 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 16S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1515	Total	C	N	O	P	0	0	0
			32554	14490	6022	10527	1515			

- Molecule 2 is a RNA chain called tRNA fMET (unmodified bases).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AC	76	Total	C	N	O	P	0	0	0
			1624	723	295	530	76			

- Molecule 3 is a RNA chain called tRNA PHE (unmodified bases).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AD	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			

- Molecule 4 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	A1	27	Total	C	N	O	P	0	0	0
			596	267	127	175	27			

- Molecule 5 is a protein called 30S ribosomal protein S2.

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

- Molecule 6 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

- Molecule 7 is a protein called 30S ribosomal protein S4.

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

- Molecule 8 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	150	Total	C	N	O	S	0	0	0
			1146	724	217	201	4			

- Molecule 9 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 10 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 11 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 12 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
12	AL	127	Total	C	N	O	0	0	0
			1010	639	197	174			

- Molecule 13 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	98	Total	C	N	O	S	0	0	0
			794	499	156	138	1			

- Molecule 14 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 15 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AO	124	Total	C	N	O	S	0	0	0
			970	611	195	163	1			

- Molecule 16 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			

- Molecule 17 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 18 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AR	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 19 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			

- Molecule 20 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	104	Total	C	N	O	S	0	0	0
			857	547	161	147	2			

- Molecule 21 is a protein called 30S ribosomal protein S18.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	73	Total	C	N	O	0	0	0
			597	380	118	99			

- Molecule 22 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	80	Total	C	N	O	S	0	0	0
			647	414	119	112	2			

- Molecule 23 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 24 is a protein called 30S ribosomal protein Thx.

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

- Molecule 25 is a RNA chain called 23S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BA	2889	Total	C	N	O	P	0	0	0
			62218	27691	11629	20009	2889			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BA	493	G	-	INSERTION	GB 48268

- Molecule 26 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BB	123	Total	C	N	O	P	0	0	0
			2641	1175	488	855	123			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BB	-1	A	-	INSERTION	GB 48271

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Chain	Residue	Modelled	Actual	Comment	Reference
BB	120	U	-	INSERTION	GB 48271

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L1.

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

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BD	272	Total	C	N	O	S	0	0	0
			2124	1339	424	358	3			

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BE	206	Total	C	N	O	S	0	0	0
			1578	997	302	273	6			

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BF	208	Total	C	N	O	S	0	0	0
			1625	1034	303	286	2			

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BG	182	Total	C	N	O	S	0	0	0
			1482	947	269	261	5			

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BH	174	Total	C	N	O	S	0	0	0
			1328	844	248	235	1			

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BK	148	Total	C	N	O	S	0	0	0
			1155	737	205	212	1			

- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BL	138	Total	C	N	O	S	0	0	0
			1025	654	181	185	5			

- Molecule 35 is a protein called 50S RIBOSOMAL PROTEIN L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BM	139	Total	C	N	O	S	0	0	0
			1113	717	207	186	3			

- Molecule 36 is a protein called 50S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BN	122	Total	C	N	O	S	0	0	0
			932	587	171	170	4			

- Molecule 37 is a protein called 50S RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BO	145	Total	C	N	O	S	0	0	0
			1106	688	226	190	2			

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BP	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	BQ	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	BR	110	Total	C	N	O			
			877	553	175	149	0	0	0

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BS	117	Total	C	N	O	S			
			976	614	197	164	1	0	0	0

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BT	117	Total	C	N	O	S			
			964	610	202	151	1	0	0	0

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BU	101	Total	C	N	O	S			
			779	501	142	135	1	0	0	0

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BV	110	Total	C	N	O	S			
			876	552	171	151	2	0	0	0

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	BW	94	Total	C	N	O			
			742	483	133	126	0	0	0

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BX	110	Total	C	N	O	S			
			844	539	158	141	6	0	0	0

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BY	180	Total	C	N	O	S	0	0	0
			1435	916	256	260	3			

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BZ	85	Total	C	N	O	S	0	0	0
			670	415	141	112	2			

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B1	67	Total	C	N	O	S	0	0	0
			567	350	116	99	2			

- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B2	59	Total	C	N	O	S	0	0	0
			469	298	90	81				

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B3	71	Total	C	N	O	S	0	0	0
			581	364	108	104	5			

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B4	57	Total	C	N	O	S	0	0	0
			445	279	87	74	5			

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B5	49	Total	C	N	O	S	0	0	0
			426	265	87	70	4			

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	B6	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	B7	64	Total	C	N	O	S	0	0	0
			515	331	102	79	3			

- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	B8	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			



- Molecule 2: tRNA fMET (unmodified bases)

8%

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29	C30	C31	C32	C33	C34	C35	A35	U36	A37	A38	C39	C40	C41	C42	A43	A44	G45	G46	U47	C48	G49	U50	C51	C52	G53	U54	U55	C56	A57	A58	A59	U60	C61	C62	C63	C64	C65	C66	C67	C68	C69	C70	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90	C91	C92	C93	C94	C95	C96	C97	C98	C99	C100	C101	C102	C103	C104	C105	C106	C107	C108	C109	C110	C111	C112	C113	C114	C115	C116	C117	C118	C119	C120	C121	C122	C123	C124	C125	C126	C127	C128	C129	C130	C131	C132	C133	C134	C135	C136	C137	C138	C139	C140	C141	C142	C143	C144	C145	C146	C147	C148	C149	C150	C151	C152	C153	C154	C155	C156	C157	C158	C159	C160	C161	C162	C163	C164	C165	C166	C167	C168	C169	C170	C171	C172	C173	C174	C175	C176	C177	C178	C179	C180	C181	C182	C183	C184	C185	C186	C187	C188	C189	C190	C191	C192	C193	C194	C195	C196	C197	C198	C199	C200	C201	C202	C203	C204	C205	C206	C207	C208	C209	C210	C211	C212	C213	C214	C215	C216	C217	C218	C219	C220	C221	C222	C223	C224	C225	C226	C227	C228	C229	C230	C231	C232	C233	C234	C235	C236	C237	C238	C239	C240	C241	C242	C243	C244	C245	C246	C247	C248	C249	C250	C251	C252	C253	C254	C255	C256	C257	C258	C259	C260	C261	C262	C263	C264	C265	C266	C267	C268	C269	C270	C271	C272	C273	C274	C275	C276	C277	C278	C279	C280	C281	C282	C283	C284	C285	C286	C287	C288	C289	C290	C291	C292	C293	C294	C295	C296	C297	C298	C299	C300	C301	C302	C303	C304	C305	C306	C307	C308	C309	C310	C311	C312	C313	C314	C315	C316	C317	C318	C319	C320	C321	C322	C323	C324	C325	C326	C327	C328	C329	C330	C331	C332	C333	C334	C335	C336	C337	C338	C339	C340	C341	C342	C343	C344	C345	C346	C347	C348	C349	C350	C351	C352	C353	C354	C355	C356	C357	C358	C359	C360	C361	C362	C363	C364	C365	C366	C367	C368	C369	C370	C371	C372	C373	C374	C375	C376	C377	C378	C379	C380	C381	C382	C383	C384	C385	C386	C387	C388	C389	C390	C391	C392	C393	C394	C395	C396	C397	C398	C399	C400	C401	C402	C403	C404	C405	C406	C407	C408	C409	C410	C411	C412	C413	C414	C415	C416	C417	C418	C419	C420	C421	C422	C423	C424	C425	C426	C427	C428	C429	C430	C431	C432	C433	C434	C435	C436	C437	C438	C439	C440	C441	C442	C443	C444	C445	C446	C447	C448	C449	C450	C451	C452	C453	C454	C455	C456	C457	C458	C459	C460	C461	C462	C463	C464	C465	C466	C467	C468	C469	C470	C471	C472	C473	C474	C475	C476	C477	C478	C479	C480	C481	C482	C483	C484	C485	C486	C487	C488	C489	C490	C491	C492	C493	C494	C495	C496	C497	C498	C499	C500	C501	C502	C503	C504	C505	C506	C507	C508	C509	C510	C511	C512	C513	C514	C515	C516	C517	C518	C519	C520	C521	C522	C523	C524	C525	C526	C527	C528	C529	C530	C531	C532	C533	C534	C535	C536	C537	C538	C539	C540	C541	C542	C543	C544	C545	C546	C547	C548	C549	C550	C551	C552	C553	C554	C555	C556	C557	C558	C559	C560	C561	C562	C563	C564	C565	C566	C567	C568	C569	C570	C571	C572	C573	C574	C575	C576	C577	C578	C579	C580	C581	C582	C583	C584	C585	C586	C587	C588	C589	C590	C591	C592	C593	C594	C595	C596	C597	C598	C599	C600	C601	C602	C603	C604	C605	C606	C607	C608	C609	C610	C611	C612	C613	C614	C615	C616	C617	C618	C619	C620	C621	C622	C623	C624	C625	C626	C627	C628	C629	C630	C631	C632	C633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C721	C722	C723	C724	C725	C726	C727	C728	C729	C730	C731	C732	C733	C734	C735	C736	C737	C738	C739	C740	C741	C742	C743	C744	C745	C746	C747	C748	C749	C750	C751	C752	C753	C754	C755	C756	C757	C758	C759	C760	C761	C762	C763	C764	C765	C766	C767	C768	C769	C770	C771	C772	C773	C774	C775	C776	C777	C778	C779	C780	C781	C782	C783	C784	C785	C786	C787	C788	C789	C790	C791	C792	C793	C794	C795	C796	C797	C798	C799	C800	C801	C802	C803	C804	C805	C806	C807	C808	C809	C810	C811	C812	C813	C814	C815	C816	C817	C818	C819	C820	C821	C822	C823	C824	C825	C826	C827	C828	C829	C830	C831	C832	C833	C834	C835	C836	C837	C838	C839	C840	C841	C842	C843	C844	C845	C846	C847	C848	C849	C850	C851	C852	C853	C854	C855	C856	C857	C858	C859	C860	C861	C862	C863	C864	C865	C866	C867	C868	C869	C870	C871	C872	C873	C874	C875	C876	C877	C878	C879	C880	C881	C882	C883	C884	C885	C886	C887	C888	C889	C890	C891	C892	C893	C894	C895	C896	C897	C898	C899	C900	C901	C902	C903	C904	C905	C906	C907	C908	C909	C910	C911	C912	C913	C914	C915	C916	C917	C918	C919	C920	C921	C922	C923	C924	C925	C926	C927	C928	C929	C930	C931	C932	C933	C934	C935	C936	C937	C938	C939	C940	C941	C942	C943	C944	C945	C946	C947	C948	C949	C950	C951	C952	C953	C954	C955	C956	C957	C958	C959	C960	C961	C962	C963	C964	C965	C966	C967	C968	C969	C970	C971	C972	C973	C974	C975	C976	C977	C978	C979	C980	C981	C982	C983	C984	C985	C986	C987	C988	C989	C990	C991	C992	C993	C994	C995	C996	C997	C998	C999	C1000
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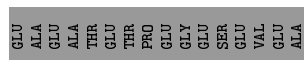
- Molecule 3: tRNA PHE (unmodified bases)



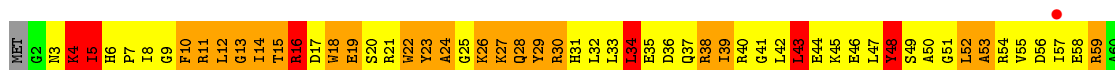
- Molecule 4: mRNA

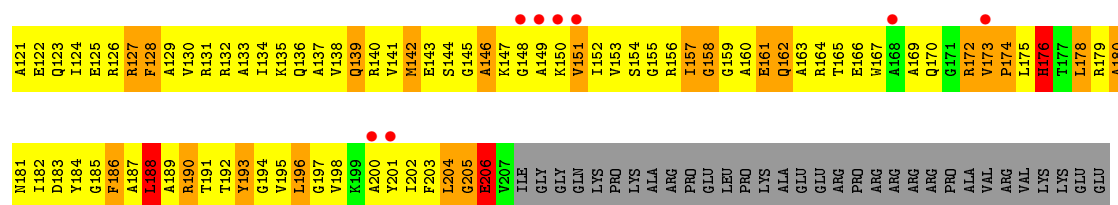


- Molecule 5: 30S ribosomal protein S2



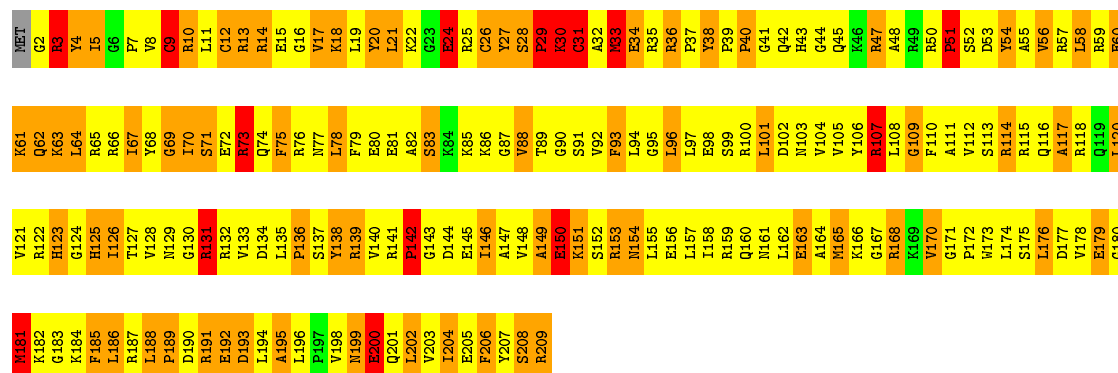
- Molecule 6: 30S ribosomal protein S3





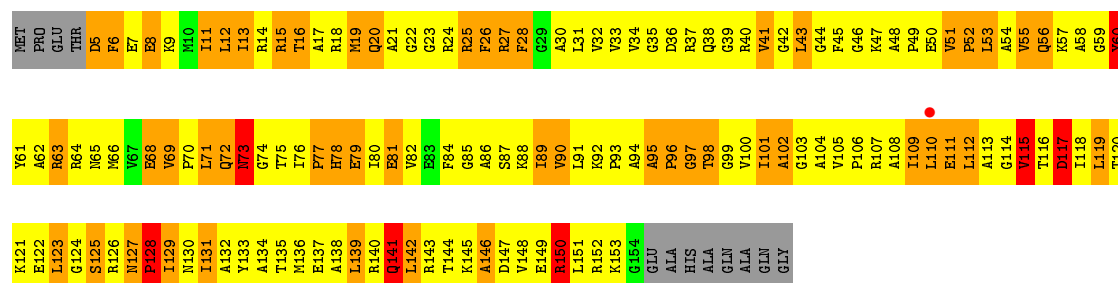
• Molecule 7: 30S ribosomal protein S4

Chain AG: . 54% 34% 7%



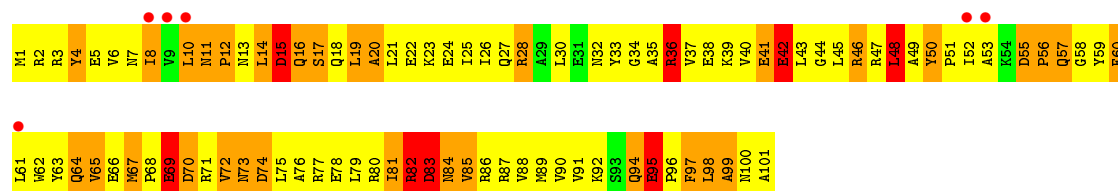
• Molecule 8: 30S ribosomal protein S5

Chain AH: . 54% 31% 7%



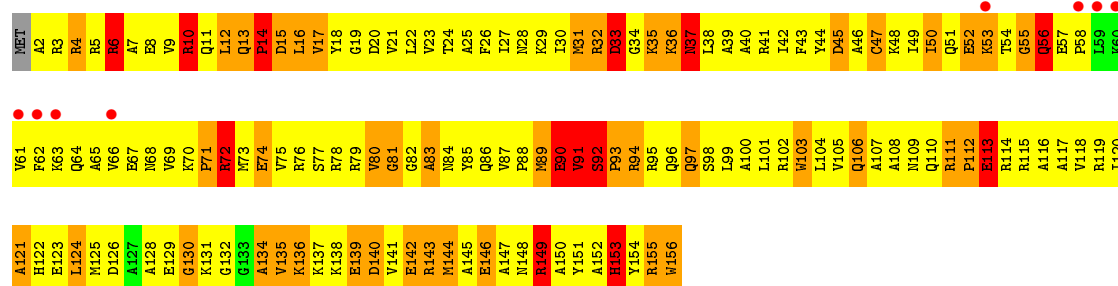
• Molecule 9: 30S ribosomal protein S6

Chain AI: 5% 55% 32% 8%

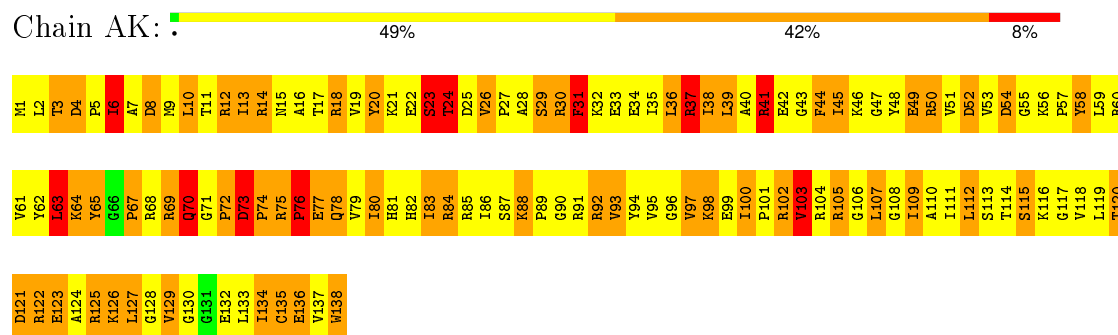


• Molecule 10: 30S ribosomal protein S7

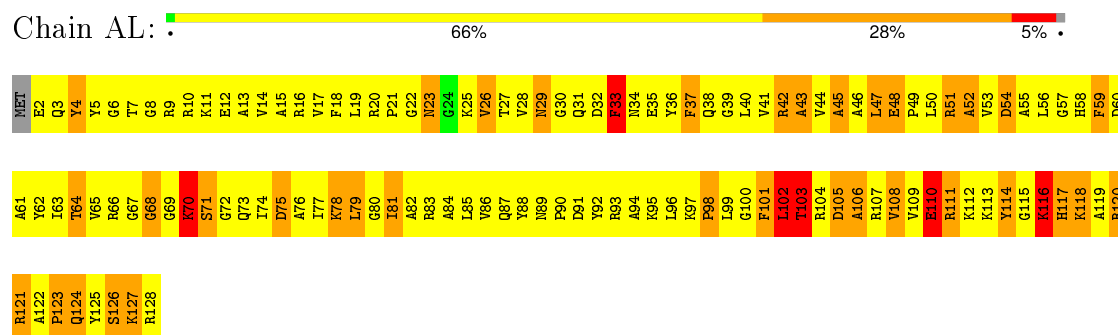
Chain AJ: . 5% 61% 28% 8%



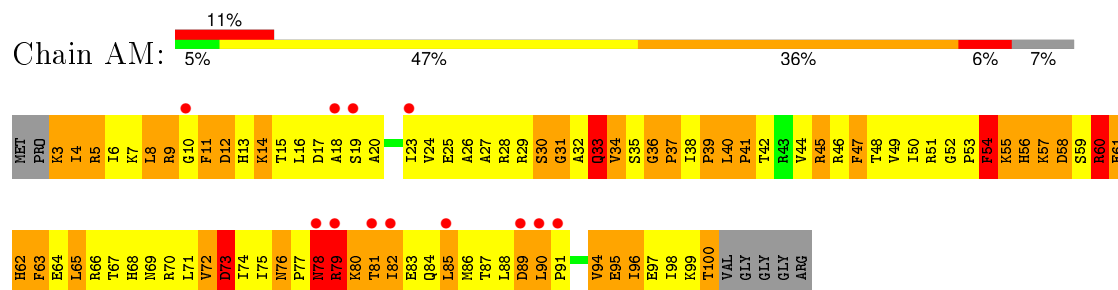
• Molecule 11: 30S ribosomal protein S8



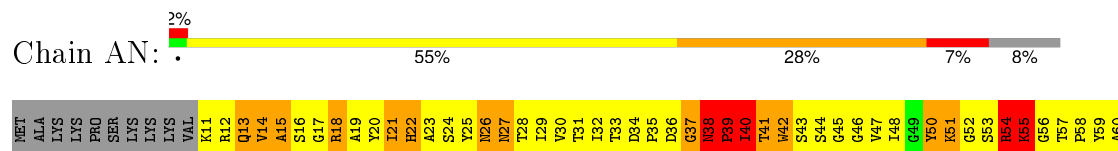
• Molecule 12: 30S ribosomal protein S9



• Molecule 13: 30S ribosomal protein S10



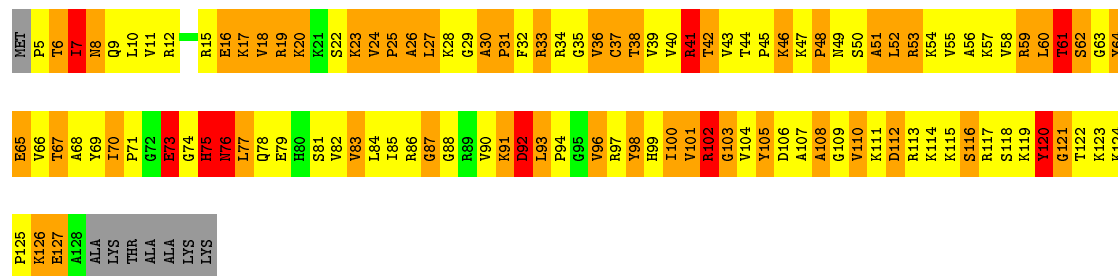
• Molecule 14: 30S ribosomal protein S11





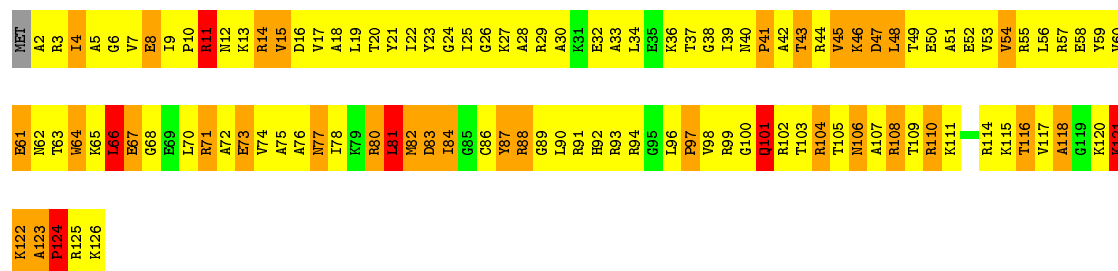
• Molecule 15: 30S ribosomal protein S12

Chain AO: 6% 44% 37% 7% 6%



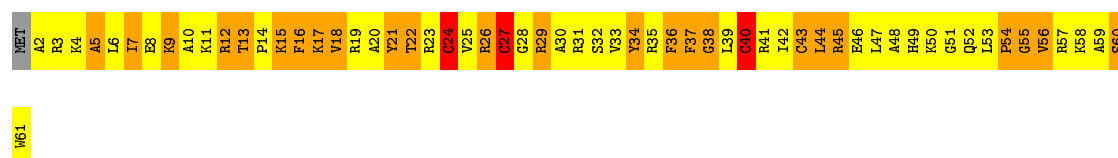
• Molecule 16: 30S ribosomal protein S13

Chain AP: 7% 62% 25% 5%



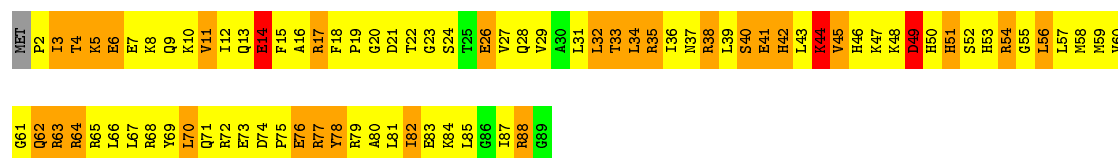
• Molecule 17: 30S ribosomal protein S14

Chain AQ: 54% 39% 5%

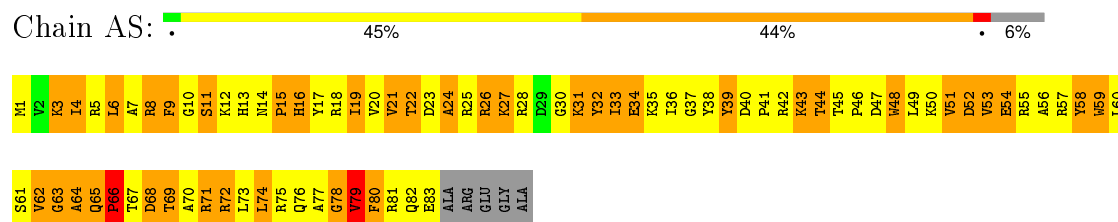


• Molecule 18: 30S ribosomal protein S15

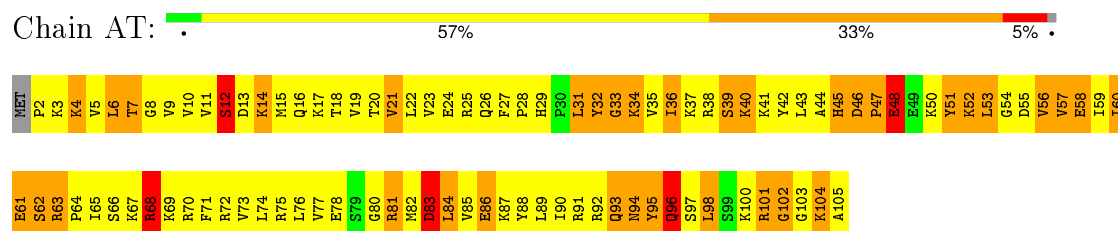
Chain AR: 60% 31%



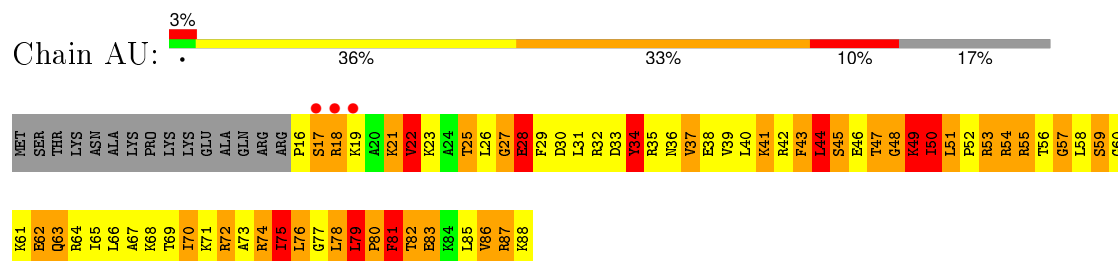
- Molecule 19: 30S ribosomal protein S16



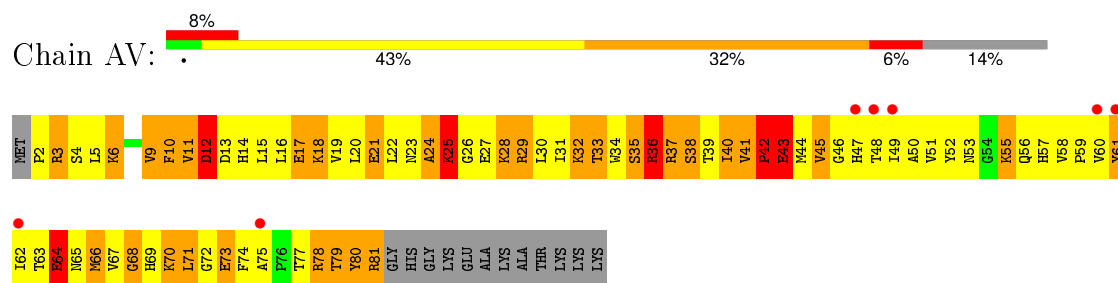
- Molecule 20: 30S ribosomal protein S17



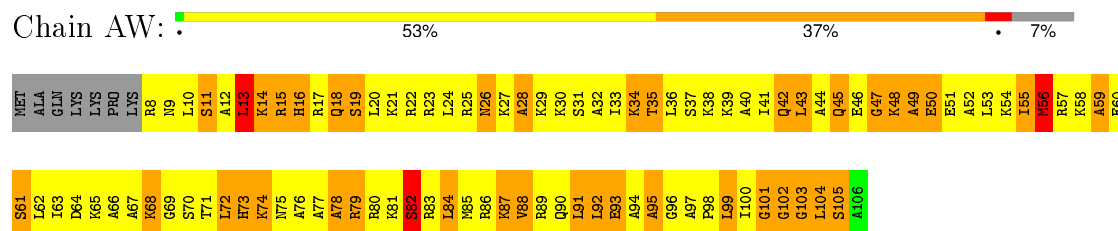
- Molecule 21: 30S ribosomal protein S18



- Molecule 22: 30S ribosomal protein S19



- Molecule 23: 30S ribosomal protein S20



- Molecule 24: 30S ribosomal protein Thx

Chain AX:  56% 19% 11% 11%

WET	G2	G3	G4	D5	R6	R7	R8	R9	R10	G11	K12	I13	H14	R15	G16	T17	Y18	G19	K20	R21	P23	R24	K25	LYS	LYS
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• Molecule 25: 23S rRNA

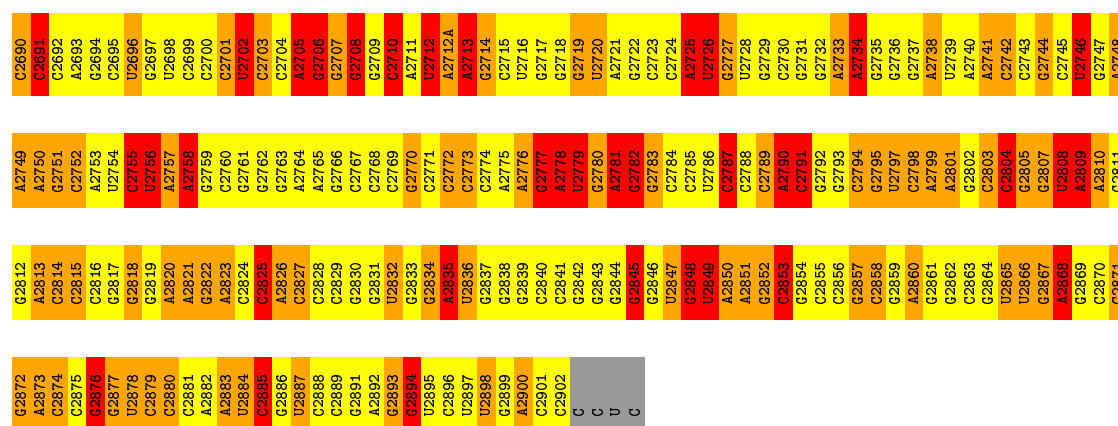
Chain BA:  42% 39% 18%

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C6673	C6636	A6674	C6638	C6640	C6641	C6642	C6643	A6644	C6645	A6646	G6647	C6648	G6649	C6650	C6651	C6652	C6653	A6654	C6655	C6656	C6657	C6658	C6659	C6660	C6661	C6662	C6663	C6664	C6665	C6666	C6667	C6668	C6669	C6670	C6671	C6672	C6673	C6674	C6675	C6676	C6677	C6678	C6679	C6680	C6681	C6682	C6683	C6684	C6685	C6686	C6687	C6688	C6689	C6690	C6691	C6692	C6693	C6694	C6695	C6696	C6697	C6698	C6699	C6700	C6701	C6702	C6703	C6704	A6705	A6706	C6707	C6708	C6709	C6710	C6711	C6712	C6713	U6714	A6715	G6716	C6717	C6718	C6719	C6720	C6721	C6722	C6723	U6724	G6725	C6726	C6727	C6728	C6729	C6730	C6731	C6732																																																																																																																																																																																																																																																																																																																																																																																																							
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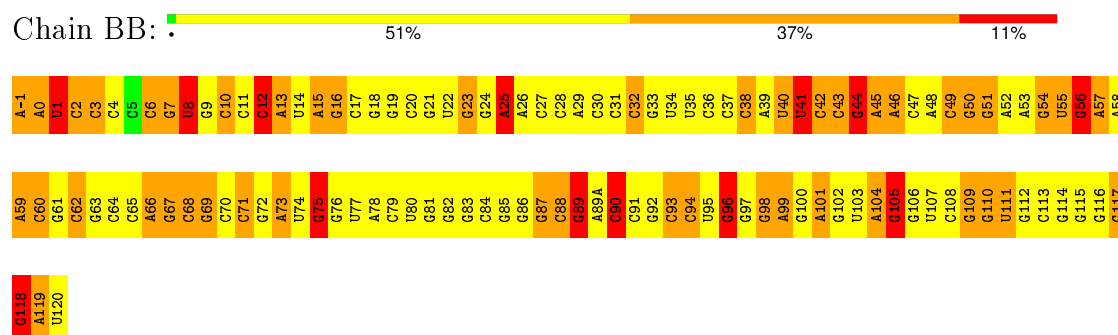
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G1678	C1619	A1558	C1498	U1438	A1378	G1318	G1258	U1198	G1138	U1078	A957	A957	A896	A835
U1679	G1620	G1559	C1499	A1439	A1379	G1319	G1259	U1199	G1139	C1079	U1019	U958	C897	C836
U1680	U1621	G1560	C1501	G1441	G1381	A1321	G1260	C1200	C1140	C1080	A1020	A959	C898	C837
G1681	G1622	G1561	C1502	G1442	G1382	A1322	G1261	C1201	U1141	U1081	A1021	A960	A899	C838
C1682	G1623	A1562	U1503	G1443	C1383	U1323	U1263	C1202	U1142	U1082	G1022	C961	A900	U839
C1683	G1624	G1563	C1504	G1444	A1384	G1324	G1264	G1203	A1143	U1083	U1023	G962	A901	C840
C1684	G1625	C1564	C1505	A1445A	G1385	G1325	A1265	U1205	G1144	A1085	G1025	U963	C902	A841
C1685	G1626	C1565	C1506	C1445	C1386	U1326	G1266	G1206	C1145	A1086	U1026	C964	C903	G842
C1686	G1627	A1566	C1507	G1446	C1387	G1327	U1267	G1207	C1146	G1087	A1027	G965	C904	G843
G1687	C1628	A1567	A1508	G1447	G1388	G1328	A1268	C1208	C1147	A1088	A1028	G966	U905	C844
U1688	U1629	G1688	C1509	G1448	G1389	U1329	A1269	C1209	A1148	U1089	A1029	U967	G906	C845
A1689	A1630	A1569	A1510	A1449	U1390	U1330	G1270	A1210	G1149	U1090	G1030	U969	C908	U847
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C1691	A1631	A1571	G1512	C1450	A1392	A1332	A1272	G1212	G1151	C1092	A1032	C971	A910	A849
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C1693	G1633	G1573	U1514	A1453	U1394	G1334	A1274	A1214	C1153	U1094	A1034	G973	U851	U851
C1694	A1634	C1574	C1515	U1454	A1395	U1335	A1275	G1215	G1154	A1095	U1035	G974	U913	G852

G2630	G2570	C2510	A2450	U2390	G2330	G2270	C2205	G2140	G2080	A2020	A1960	A1900	G1831	C1771	G1695
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A2632	A2572	C2512	A2452	A2392	U2332	G2272	C2207	C2142	A2082	C2022	C1962	C1902	U1833	A1773	G1697
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G2576	G2576	C2516	G2456	G2396	A2336	G2276	G2211	C2146	G2086	C2026	A1966	G1906	C1837	U1777	G1701
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A2649	A2589	G2529	A2469	G2409	G2349	G2289	C2229	U2159	U2099	C2039	A1979	A1919	G1850	C1790	G1717
U2650	C2590	U2530	G2470	A2410	C2350	G2290	G2230	G2160	G2100	C2040	G1980	U1920	U1851	A1791	G1718
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G2661	A2601	U2541	G2481	G2421	A2361	C2301	G2241	A2171	G2111	A2051	C1991	U1931	G1862	A1802	C1735
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G2663	C2603	G2543	C2483	U2423	G2363	G2303	G2243	A2173	G2113	G2053	U1993	G1933	U1864	G1804	G1742
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G2666	C2606	U2546	A2486	A2426	A2366	C2306	G2246	A2176	G2116	C2056	G1996	A1936	A1871	G1807	G1747
A2667	G2607	C2547	G2487	G2427	G2367	G2307	A2247	C2177	U2117	A2057	G1997	A1937	A1872	U1808	A1748
C2668	G2608	U2548	A2488	G2428	G2368	G2308	C2248	C2178	U2118	A2058	G1998	A1938	G1873	A1749	G1749
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C2670	C2610	C2550	G2490	A2430	G2370	A2310	G2250	U2180	G2120	A2060	G2000	U1940	G1880	G1751	G1751
A2671	U2611	C2551	U2491	U2431	G2371	A2311	G2251	G2181	G2121	G2061	A2001	C1941	C1881	C1752	C1752
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G2674	A2614	U2554	A2494	A2434	C2374	G2314	C2254	C2184	G2124	C2064	G2004	U1944	A1884	A1815	A1755
A2675	U2615	G2555	G2495	A2435	G2375	G2315	G2255	C2185	G2125	C2065	A2005	G1945	A1885	G1756	G1756
C2676	C2616	C2556	G2496	G2436	A2376	G2316	G2256	G2186	A2126	C2066	U1946	U1946	C1886	G1817	U1757
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C2678	G2618	C2558	G2498	U2438	A2378	G2318	C2258	C2188	C2128	U2068	C2008	G1948	G1888	A1819	G1759
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G2680	C2620	C2560	U2500	G2440	C2380	A2320	C2260	G2190	U2130	G2070	G2010	G1950	A1890	A1821	G1761
C2681	A2621	U2561	G2501	C2441	G2381	G2321	U2261	G2191	G2131	A2071	C2011	U1951	G1891	G1822	A1762
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C2683	G2623	U2563	A2503	C2443	G2383	G2323	C2263	G2193	G2133	C2073	A2013	A1953	C1893	G1824	G1764
G2684	C2624	C2564	U2504	G2444	C2384	G2324	U2264	C2194	A2134	U2074	A2014	G1954	C1894	A1825	C1765
U2685	G2625	A2565	G2505	G2445	C2385	G2325	U2265	C2195	C2135	U2075	A2015	G1955	C1895	G1826	G1766
C2686	C2626	C2566	U2506	C2446	G2386	C2326	A2266	C2196	G2136	U2076	U2016	U1956	G1896	C1827	G1767
G2687	G2627	U2567	G2507	G2447	U2387	A2327	A2267	U2197	C2137	A2077	U2017	G1957	G1897	G1828	U1768
A2688	C2628	C2568	C2508	U2448	G2388	A2328	C2268	C2198	G2138	C2078	G2018	C1958	C1898	G1829	G1769
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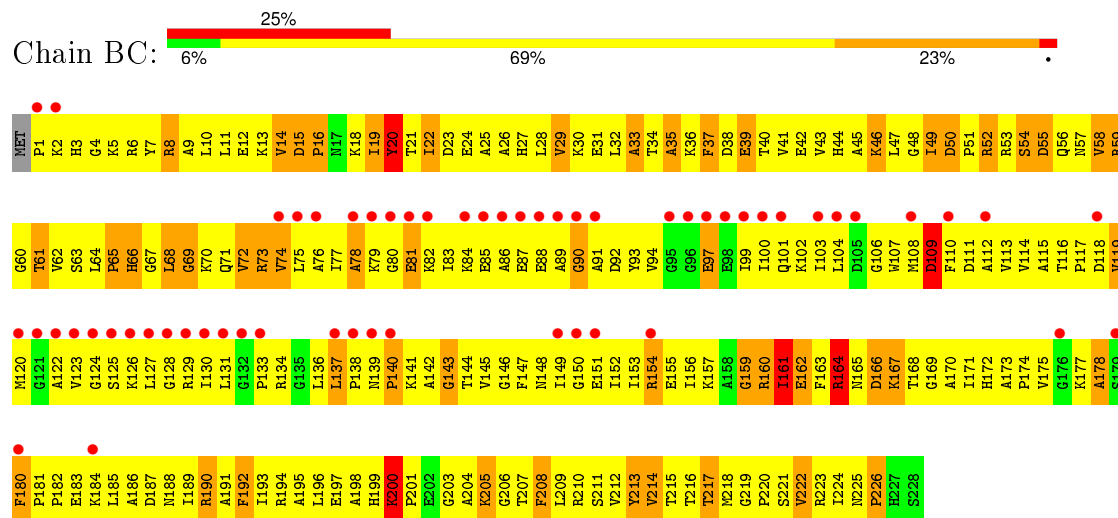




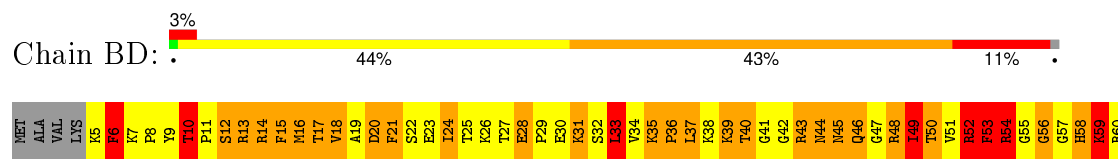
• Molecule 26: 5S rRNA

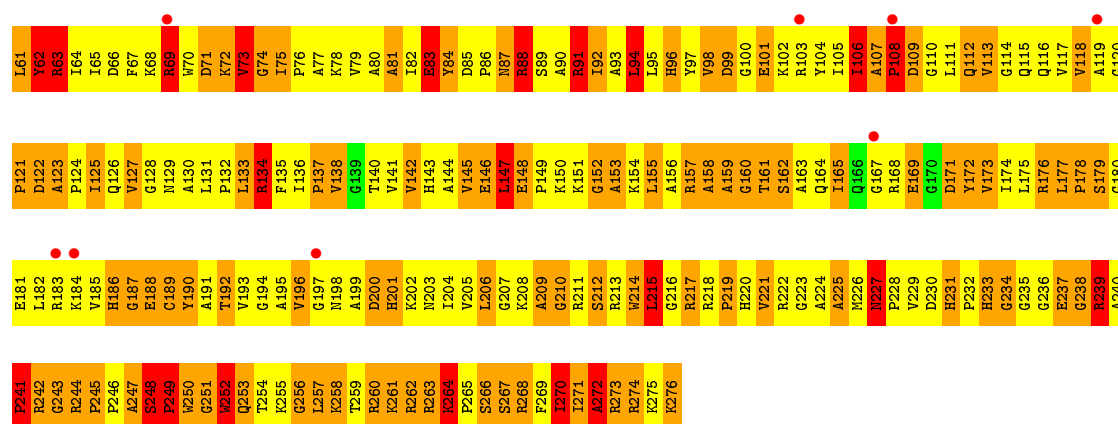


• Molecule 27: 50S RIBOSOMAL PROTEIN L1

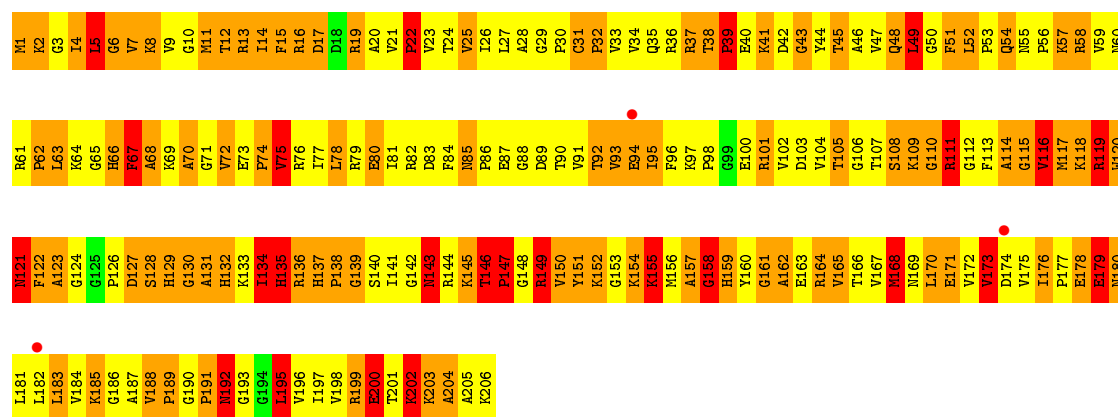


• Molecule 28: 50S RIBOSOMAL PROTEIN L2

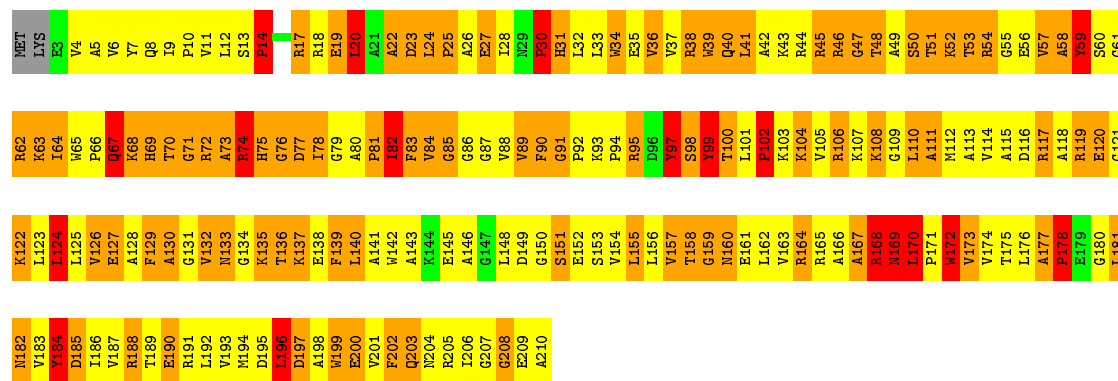




• Molecule 29: 50S RIBOSOMAL PROTEIN L3

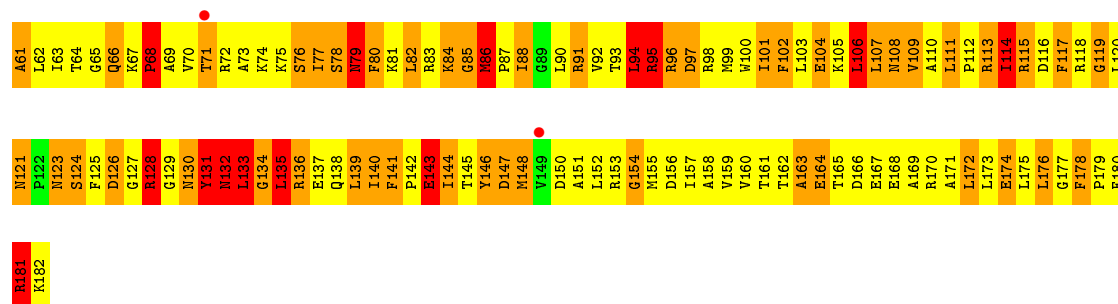


• Molecule 30: 50S RIBOSOMAL PROTEIN L4

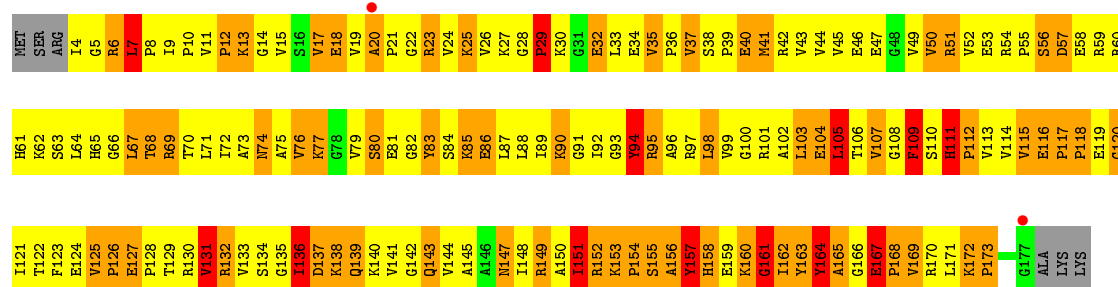


• Molecule 31: 50S RIBOSOMAL PROTEIN L5

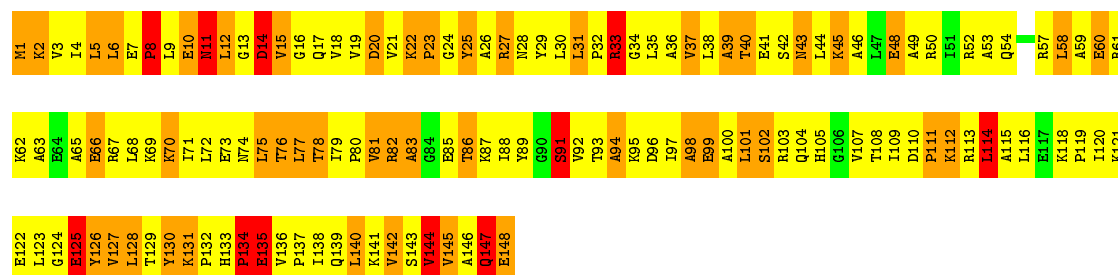
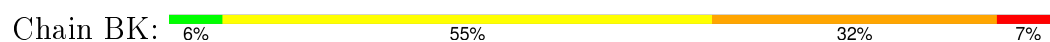




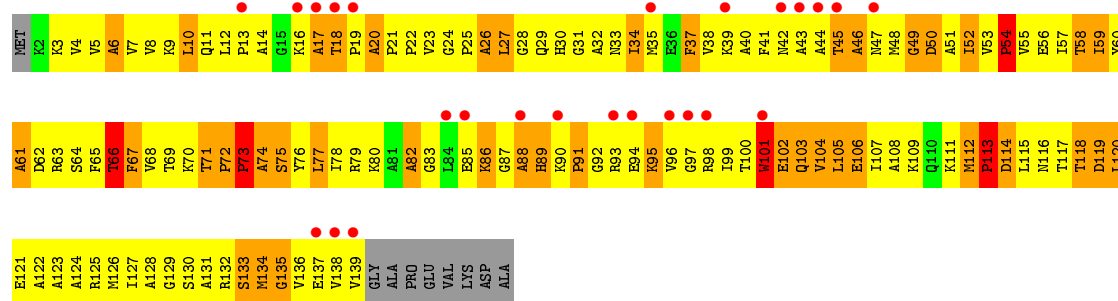
• Molecule 32: 50S RIBOSOMAL PROTEIN L6



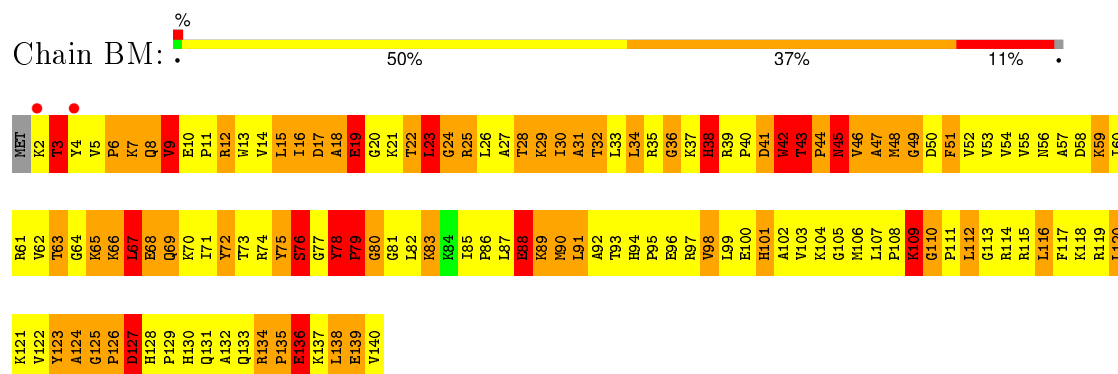
• Molecule 33: 50S RIBOSOMAL PROTEIN L9



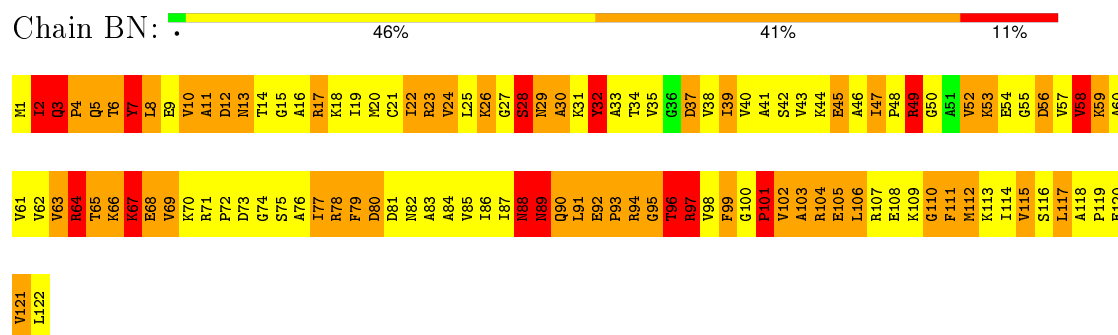
• Molecule 34: 50S RIBOSOMAL PROTEIN L11



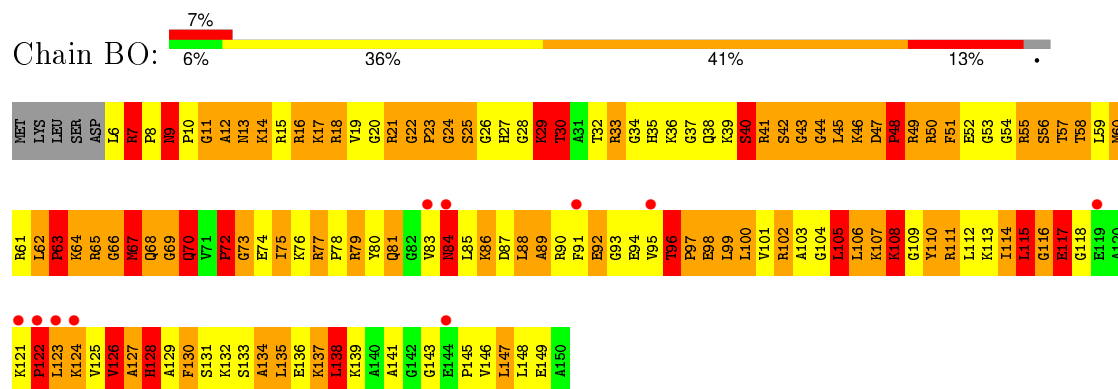
• Molecule 35: 50S RIBOSOMAL PROTEIN L13



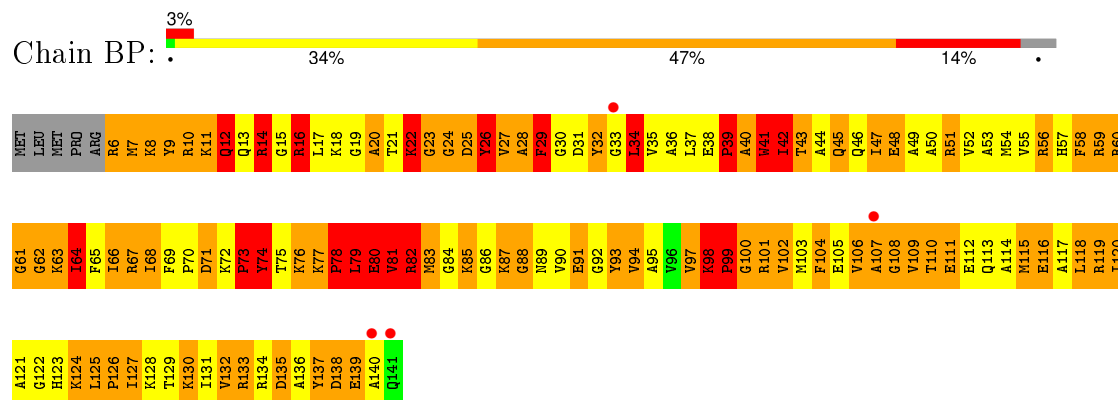
• Molecule 36: 50S RIBOSOMAL PROTEIN L14



• Molecule 37: 50S RIBOSOMAL PROTEIN L15

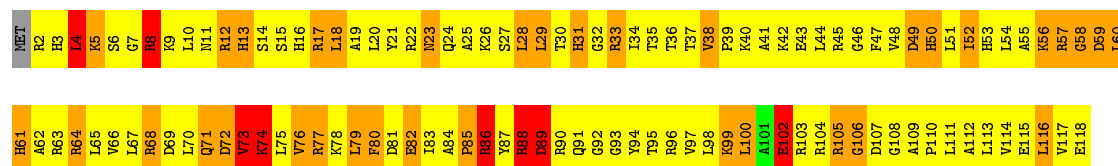


• Molecule 38: 50S RIBOSOMAL PROTEIN L16



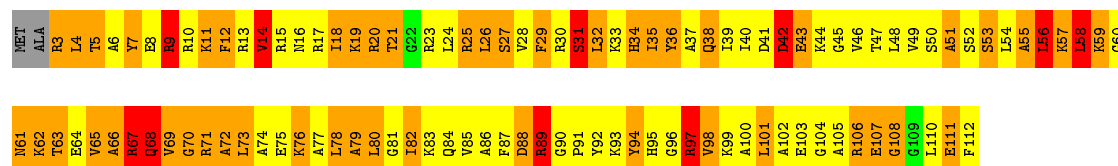
- Molecule 39: 50S RIBOSOMAL PROTEIN L17

Chain BQ: 



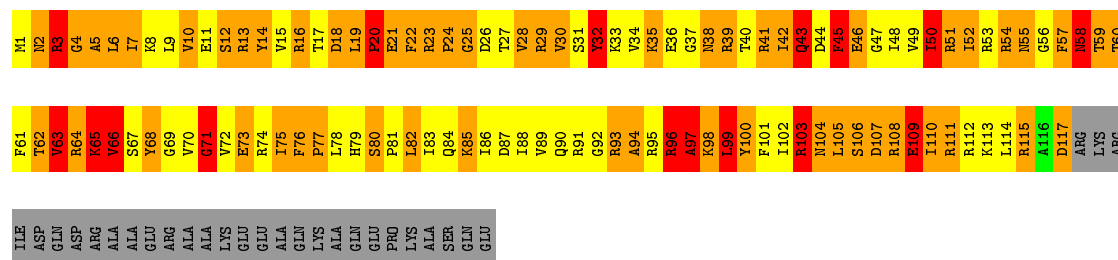
- Molecule 40: 50S RIBOSOMAL PROTEIN L18

Chain BR: 



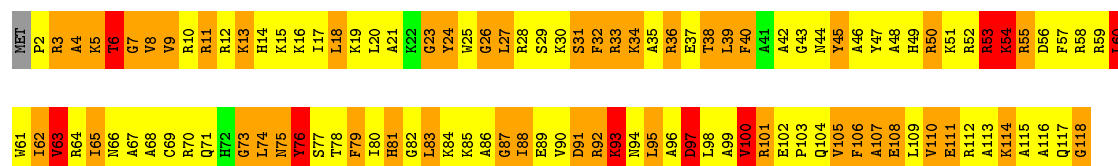
- Molecule 41: 50S RIBOSOMAL PROTEIN L19

Chain BS: 



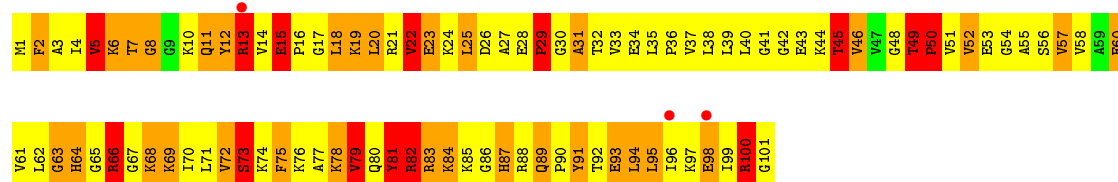
- Molecule 42: 50S RIBOSOMAL PROTEIN L20

Chain BT: 

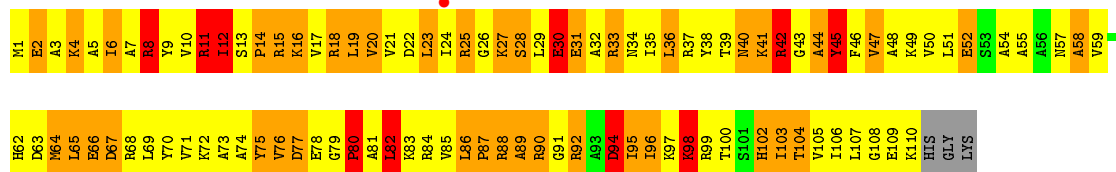


- Molecule 43: 50S RIBOSOMAL PROTEIN L21

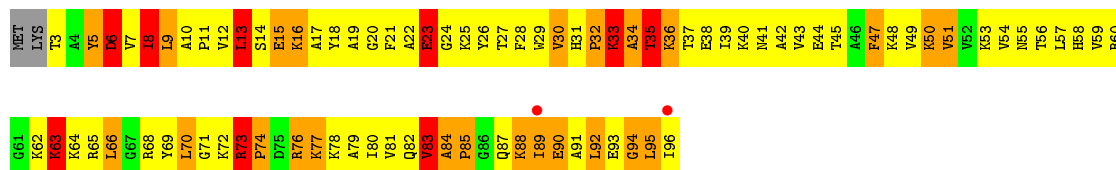

Chain BU: 



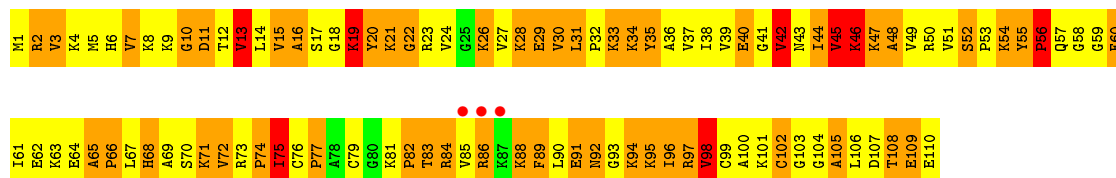
## • Molecule 44: 50S RIBOSOMAL PROTEIN L22

Chain BV: 

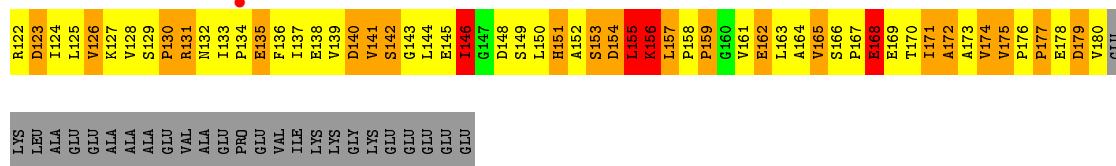
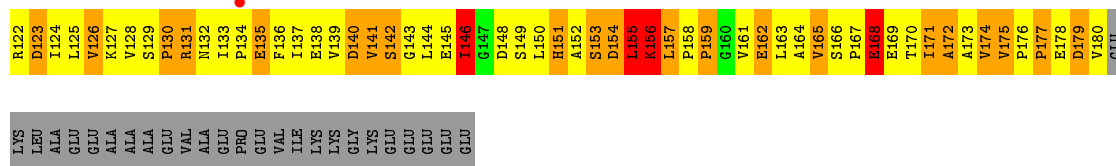
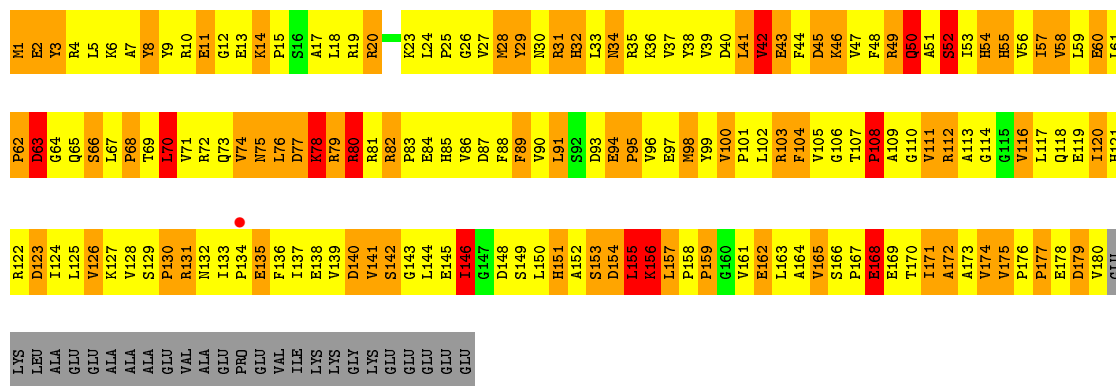
## • Molecule 45: 50S RIBOSOMAL PROTEIN L23

Chain BW: 

## • Molecule 46: 50S RIBOSOMAL PROTEIN L24

Chain BX: 

## • Molecule 47: 50S RIBOSOMAL PROTEIN L25

Chain BY: 

## • Molecule 48: 50S RIBOSOMAL PROTEIN L27

Chain BZ: 



• Molecule 49: 50S RIBOSOMAL PROTEIN L29

Chain B1: 57% 40%



• Molecule 50: 50S RIBOSOMAL PROTEIN L30

Chain B2: 2% 7% 47% 38% 7%



• Molecule 51: 50S RIBOSOMAL PROTEIN L31

Chain B3: 41% 35% 23%



• Molecule 52: 50S RIBOSOMAL PROTEIN L32

Chain B4: 27% 52% 15% 5%



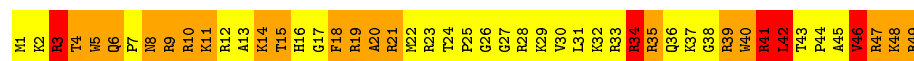
• Molecule 53: 50S RIBOSOMAL PROTEIN L33

Chain B5: 4% 26% 39% 24% 9%



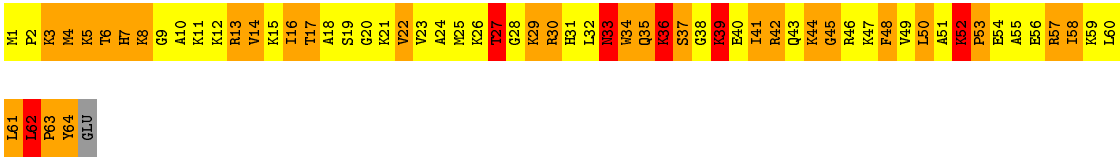
• Molecule 54: 50S RIBOSOMAL PROTEIN L34

Chain B6: 51% 39% 10%



• Molecule 55: 50S RIBOSOMAL PROTEIN L35

Chain B7: 46% 43% 9%



● Molecule 56: 50S RIBOSOMAL PROTEIN L36

Chain B8: 8% 46% 38% 8%





## 4 Data and refinement statistics

Property	Value	Source
Space group	I 4 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	508.65Å 508.65Å 803.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	300.00 – 4.51 429.82 – 3.98	Depositor EDS
% Data completeness (in resolution range)	90.3 (300.00-4.51) 94.9 (429.82-3.98)	Depositor EDS
$R_{merge}$	0.11	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	0.00 (at 4.02Å)	Xtriage
Refinement program	CNS	Depositor
R, $R_{free}$	0.298 , 0.345 0.300 , 0.346	Depositor DCC
$R_{free}$ test set	14716 reflections (5.34%)	DCC
Wilson B-factor (Å <sup>2</sup> )	198.7	Xtriage
Anisotropy	0.113	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.09 , 116.0	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.55$ , $\langle L^2 \rangle = 0.39$	Xtriage
Outliers	0 of 441813 reflections	Xtriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	149640	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	252.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.62% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

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  > 5$	RMSZ	# $ Z  > 5$
1	AA	0.93	38/36438 (0.1%)	1.05	172/56869 (0.3%)
2	AC	0.93	2/1814 (0.1%)	1.01	4/2825 (0.1%)
3	AD	1.47	34/1813 (1.9%)	1.27	21/2823 (0.7%)
4	A1	0.81	1/673 (0.1%)	1.07	3/1048 (0.3%)
5	AE	0.63	0/1935	1.01	4/2609 (0.2%)
6	AF	0.53	0/1636	0.93	4/2205 (0.2%)
7	AG	0.67	1/1733 (0.1%)	1.10	7/2318 (0.3%)
8	AH	0.70	0/1162	1.08	4/1564 (0.3%)
9	AI	0.69	0/856	1.03	3/1154 (0.3%)
10	AJ	0.54	0/1276	0.87	0/1709
11	AK	0.73	0/1136	1.08	3/1527 (0.2%)
12	AL	0.51	0/1029	0.84	1/1379 (0.1%)
13	AM	0.50	0/807	0.85	0/1085
14	AN	0.67	0/900	1.06	0/1213
15	AO	0.67	0/986	1.09	3/1320 (0.2%)
16	AP	0.51	0/1008	0.91	2/1347 (0.1%)
17	AQ	0.53	0/501	1.02	3/664 (0.5%)
18	AR	0.67	0/745	0.98	0/992
19	AS	0.72	0/716	1.04	4/963 (0.4%)
20	AT	0.67	0/870	1.05	2/1159 (0.2%)
21	AU	0.65	0/603	1.12	3/799 (0.4%)
22	AV	0.49	0/661	0.91	1/890 (0.1%)
23	AW	0.66	0/765	1.05	1/1007 (0.1%)
24	AX	0.47	0/212	0.82	0/277
25	BA	1.06	139/69685 (0.2%)	1.19	514/108786 (0.5%)
26	BB	0.80	2/2954 (0.1%)	1.00	4/4606 (0.1%)
27	BC	0.50	0/1775	0.89	2/2393 (0.1%)
28	BD	0.88	2/2174 (0.1%)	1.35	22/2927 (0.8%)
29	BE	0.87	0/1611	1.36	19/2171 (0.9%)
30	BF	0.74	0/1660	1.26	11/2247 (0.5%)
31	BG	0.60	0/1507	1.07	5/2027 (0.2%)
32	BH	0.64	0/1354	1.08	5/1831 (0.3%)
33	BK	0.68	0/1170	1.10	8/1581 (0.5%)
34	BL	0.50	0/1044	0.92	1/1415 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
35	BM	0.85	1/1140 (0.1%)	1.19	7/1537 (0.5%)
36	BN	1.07	4/942 (0.4%)	1.42	7/1268 (0.6%)
37	BO	0.75	0/1123	1.24	9/1493 (0.6%)
38	BP	0.86	1/1100 (0.1%)	1.23	9/1470 (0.6%)
39	BQ	0.70	0/974	1.07	2/1302 (0.2%)
40	BR	0.73	0/887	1.14	5/1180 (0.4%)
41	BS	0.98	0/990	1.52	16/1325 (1.2%)
42	BT	0.81	0/982	1.19	7/1306 (0.5%)
43	BU	0.94	1/790 (0.1%)	1.40	10/1057 (0.9%)
44	BV	0.73	0/886	1.21	7/1189 (0.6%)
45	BW	0.60	0/756	0.97	5/1015 (0.5%)
46	BX	0.61	0/857	1.10	3/1142 (0.3%)
47	BY	0.66	0/1467	1.11	5/1992 (0.3%)
48	BZ	0.67	0/679	1.02	1/902 (0.1%)
49	B1	0.60	0/569	0.89	1/751 (0.1%)
50	B2	0.71	1/474 (0.2%)	1.10	4/635 (0.6%)
51	B3	1.05	0/594	1.44	10/795 (1.3%)
52	B4	0.79	0/459	1.22	2/621 (0.3%)
53	B5	0.98	1/433 (0.2%)	1.49	6/576 (1.0%)
54	B6	0.84	1/438 (0.2%)	1.08	1/575 (0.2%)
55	B7	0.69	0/523	1.22	5/690 (0.7%)
56	B8	0.73	0/310	1.13	1/407 (0.2%)
All	All	0.94	229/162582 (0.1%)	1.13	959/242958 (0.4%)

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	241
2	AC	0	9
3	AD	0	12
4	A1	0	5
7	AG	0	1
8	AH	0	1
11	AK	0	2
14	AN	0	1
15	AO	0	1
20	AT	0	1
24	AX	0	1
25	BA	0	610

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Mol	Chain	#Chirality outliers	#Planarity outliers
26	BB	0	20
28	BD	0	1
30	BF	0	1
32	BH	0	3
36	BN	0	2
38	BP	0	3
41	BS	0	2
42	BT	0	1
43	BU	0	2
44	BV	0	1
51	B3	0	2
52	B4	0	1
53	B5	0	1
56	B8	0	1
All	All	0	926

All (229) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	1203	G	O3'-P	-34.71	1.19	1.61
25	BA	1202	C	O3'-P	29.90	1.97	1.61
25	BA	2447	G	O3'-P	-21.30	1.35	1.61
25	BA	2601	C	O3'-P	19.66	1.84	1.61
25	BA	2756	U	O3'-P	19.18	1.84	1.61
1	AA	173	U	O3'-P	19.14	1.84	1.61
25	BA	2500	U	C4-O4	18.51	1.38	1.23
1	AA	196	A	O3'-P	-18.33	1.39	1.61
25	BA	1240	U	C4-O4	-16.51	1.10	1.23
25	BA	2612	C	N1-C2	15.33	1.55	1.40
25	BA	2501	C	C2-O2	15.28	1.38	1.24
25	BA	2500	U	O3'-P	-15.23	1.42	1.61
1	AA	37	U	N3-C4	-14.53	1.25	1.38
25	BA	1786	A	N9-C4	14.06	1.46	1.37
3	AD	65	U	C2-N3	13.82	1.47	1.37
25	BA	2491	U	N1-C2	13.49	1.50	1.38
3	AD	65	U	N3-C4	13.08	1.50	1.38
1	AA	37	U	C4-O4	-12.91	1.13	1.23
25	BA	2755	C	O3'-P	12.08	1.75	1.61
25	BA	860	U	C4-O4	-11.82	1.14	1.23
25	BA	2446	G	O3'-P	11.45	1.74	1.61
1	AA	1494	G	N9-C4	11.29	1.47	1.38
25	BA	917	A	C6-N6	10.99	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AD	53	G	C2-N2	-10.61	1.24	1.34
25	BA	1204	A	O3'-P	-10.60	1.48	1.61
25	BA	2460	U	N1-C2	10.44	1.48	1.38
1	AA	172	A	O3'-P	10.22	1.73	1.61
1	AA	579	G	C3'-O3'	9.69	1.55	1.42
3	AD	50	G	C2-N2	-9.38	1.25	1.34
25	BA	2501	C	O3'-P	-9.10	1.50	1.61
25	BA	2063	C	N1-C2	8.93	1.49	1.40
3	AD	61	C	C4-C5	-8.85	1.35	1.43
25	BA	2056	G	C2-N3	8.85	1.39	1.32
3	AD	65	U	C2-O2	8.74	1.30	1.22
3	AD	61	C	C4-N4	-8.67	1.26	1.33
1	AA	13	U	N3-C4	8.59	1.46	1.38
1	AA	579	G	O3'-P	8.57	1.71	1.61
25	BA	2056	G	N9-C4	8.56	1.44	1.38
3	AD	65	U	C4-O4	8.41	1.30	1.23
1	AA	37	U	C2-O2	-8.31	1.14	1.22
3	AD	64	C	C2-O2	-8.20	1.17	1.24
25	BA	1667	G	O3'-P	-8.17	1.51	1.61
25	BA	726	G	N9-C4	8.15	1.44	1.38
25	BA	1917	U	N1-C2	-8.12	1.31	1.38
1	AA	1192	C	N1-C2	8.04	1.48	1.40
25	BA	1778	U	N3-C4	7.97	1.45	1.38
25	BA	1303	G	C5-C6	7.94	1.50	1.42
3	AD	22	G	C5-C6	-7.93	1.34	1.42
25	BA	1956	U	N3-C4	7.88	1.45	1.38
3	AD	50	G	C6-O6	-7.84	1.17	1.24
25	BA	1786	A	C2-N3	7.83	1.40	1.33
3	AD	28	G	C5-C6	-7.77	1.34	1.42
25	BA	1785	A	C6-N1	-7.74	1.30	1.35
3	AD	40	C	C4-C5	-7.69	1.36	1.43
25	BA	1775	U	C5-C6	-7.62	1.27	1.34
1	AA	1192	C	C4-N4	-7.57	1.27	1.33
3	AD	1	G	OP3-P	-7.55	1.52	1.61
3	AD	50	G	N9-C4	-7.54	1.31	1.38
25	BA	1	G	OP3-P	-7.47	1.52	1.61
43	BU	81	TYR	CB-CG	7.46	1.62	1.51
4	A1	1	G	OP3-P	-7.45	1.52	1.61
25	BA	1775	U	N1-C2	7.44	1.45	1.38
3	AD	69	C	C4-C5	-7.34	1.37	1.43
25	BA	2553	G	C2-N2	-7.30	1.27	1.34
25	BA	688	U	N1-C2	7.23	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AD	64	C	C2-N3	-7.21	1.29	1.35
3	AD	64	C	C4-N4	-7.18	1.27	1.33
26	BB	-1	A	OP3-P	-7.09	1.52	1.61
25	BA	2448	A	C5'-C4'	7.03	1.59	1.51
3	AD	71	G	N9-C4	6.99	1.43	1.38
3	AD	50	G	N1-C2	-6.99	1.32	1.37
25	BA	1785	A	C3'-O3'	6.98	1.51	1.42
25	BA	860	U	N3-C4	-6.96	1.32	1.38
25	BA	1785	A	O3'-P	6.96	1.69	1.61
25	BA	1313	U	N1-C2	6.93	1.44	1.38
25	BA	1666	G	N9-C4	-6.93	1.32	1.38
25	BA	2195	C	C3'-O3'	6.91	1.51	1.42
25	BA	1778	U	C4-O4	-6.89	1.18	1.23
25	BA	1778	U	N1-C2	6.88	1.44	1.38
25	BA	1956	U	C2-N3	6.82	1.42	1.37
1	AA	697	U	C2-N3	6.82	1.42	1.37
25	BA	1785	A	C6-N6	-6.79	1.28	1.33
3	AD	22	G	C2-N2	6.71	1.41	1.34
3	AD	1	G	C5-C6	-6.68	1.35	1.42
25	BA	974(A)	C	C5-C6	6.66	1.39	1.34
25	BA	1775	U	C4-O4	-6.65	1.18	1.23
25	BA	775	G	N9-C4	6.64	1.43	1.38
25	BA	1993	U	N1-C2	6.56	1.44	1.38
3	AD	30	G	C5-C6	6.55	1.49	1.42
25	BA	1778	U	C5-C6	-6.55	1.28	1.34
2	AC	1	C	OP3-P	-6.55	1.53	1.61
1	AA	779	C	C2-O2	-6.54	1.18	1.24
3	AD	61	C	C5-C6	-6.54	1.29	1.34
1	AA	13	U	C2-N3	6.49	1.42	1.37
3	AD	12	U	N1-C2	-6.46	1.32	1.38
38	BP	41	TRP	CB-CG	-6.44	1.38	1.50
25	BA	733	G	C5-C6	-6.43	1.35	1.42
36	BN	105	GLU	CG-CD	6.41	1.61	1.51
25	BA	1666	G	C2-N3	-6.40	1.27	1.32
1	AA	1494	G	C6-N1	-6.38	1.35	1.39
1	AA	961	U	N1-C6	-6.38	1.32	1.38
25	BA	1626	G	C5'-C4'	6.34	1.58	1.51
36	BN	105	GLU	CB-CG	6.33	1.64	1.52
1	AA	961	U	N1-C2	6.31	1.44	1.38
25	BA	1771	C	C2-O2	-6.28	1.18	1.24
25	BA	2460	U	C4-O4	6.27	1.28	1.23
25	BA	2196	C	C5'-C4'	6.22	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	974(A)	C	N1-C2	6.17	1.46	1.40
25	BA	2491	U	C2-N3	6.16	1.42	1.37
25	BA	2522	U	N1-C2	6.14	1.44	1.38
25	BA	2459	A	N9-C4	6.13	1.41	1.37
25	BA	2614	A	C5-C6	6.12	1.46	1.41
25	BA	1775	U	O3'-P	6.11	1.68	1.61
25	BA	1313	U	C4-C5	-6.11	1.38	1.43
3	AD	40	C	C4-N4	-6.08	1.28	1.33
25	BA	524	U	N1-C2	-6.06	1.33	1.38
25	BA	2459	A	C2-N3	6.05	1.39	1.33
1	AA	697	U	N1-C2	6.02	1.44	1.38
25	BA	1743	G	C5-C6	-6.01	1.36	1.42
25	BA	2612	C	C2-O2	6.00	1.29	1.24
3	AD	49	G	N9-C4	-5.99	1.33	1.38
1	AA	114	U	C2-N3	-5.98	1.33	1.37
25	BA	2665	A	C5-C6	-5.97	1.35	1.41
1	AA	961	U	C4-O4	-5.95	1.18	1.23
26	BB	96	G	N9-C4	5.94	1.42	1.38
3	AD	53	G	N9-C4	5.92	1.42	1.38
1	AA	1522	U	N3-C4	-5.92	1.33	1.38
28	BD	54	ARG	CG-CD	5.91	1.66	1.51
25	BA	821	A	C5-C6	5.90	1.46	1.41
2	AC	75	C	N1-C2	5.90	1.46	1.40
25	BA	860	U	C2-O2	-5.89	1.17	1.22
25	BA	687	C	N1-C2	5.88	1.46	1.40
36	BN	79	PHE	CB-CG	5.85	1.61	1.51
1	AA	114	U	N3-C4	-5.84	1.33	1.38
25	BA	1575	C	N1-C2	-5.84	1.34	1.40
1	AA	397	A	C5-C6	-5.84	1.35	1.41
25	BA	1987	G	C2-N2	-5.84	1.28	1.34
3	AD	30	G	C2-N2	-5.84	1.28	1.34
25	BA	1516	U	N1-C2	-5.84	1.33	1.38
25	BA	2255	G	N1-C2	5.83	1.42	1.37
53	B5	51	GLU	CB-CG	5.82	1.63	1.52
25	BA	2460	U	N3-C4	5.82	1.43	1.38
25	BA	1303	G	C2-N3	5.79	1.37	1.32
25	BA	776	G	C3'-O3'	5.72	1.50	1.42
54	B6	9	ARG	CG-CD	5.70	1.66	1.51
25	BA	2512	C	C2-O2	-5.66	1.19	1.24
25	BA	2526	G	N9-C4	5.66	1.42	1.38
25	BA	1735	C	N1-C2	-5.65	1.34	1.40
25	BA	739	G	C3'-O3'	5.64	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	196	A	C5-C6	5.61	1.46	1.41
25	BA	1784	A	C2-N3	-5.60	1.28	1.33
3	AD	49	G	C6-N1	-5.59	1.35	1.39
1	AA	1494	G	C6-O6	-5.58	1.19	1.24
25	BA	2206	C	N1-C2	-5.56	1.34	1.40
25	BA	1778	U	C2-N3	5.56	1.41	1.37
1	AA	974	A	C2-N3	5.55	1.38	1.33
3	AD	50	G	N3-C4	-5.55	1.31	1.35
25	BA	2445	G	C6-O6	-5.55	1.19	1.24
25	BA	984	A	C5-C6	-5.54	1.36	1.41
25	BA	2738	A	C5-C6	-5.53	1.36	1.41
25	BA	1489	U	N1-C2	-5.47	1.33	1.38
25	BA	978	G	C5-C6	5.47	1.47	1.42
25	BA	917	A	C6-N1	5.46	1.39	1.35
25	BA	985	C	C2-O2	-5.45	1.19	1.24
25	BA	2083	G	C6-O6	-5.44	1.19	1.24
25	BA	1789	A	C6-N1	5.44	1.39	1.35
25	BA	775	G	C3'-O3'	5.44	1.49	1.42
3	AD	49	G	C6-O6	-5.44	1.19	1.24
25	BA	1775	U	C3'-O3'	5.43	1.49	1.42
25	BA	138	G	C6-O6	-5.43	1.19	1.24
1	AA	354	G	N9-C4	5.43	1.42	1.38
25	BA	777	A	C6-N6	-5.43	1.29	1.33
25	BA	2512	C	N1-C2	-5.42	1.34	1.40
1	AA	1086	U	N1-C2	5.41	1.43	1.38
25	BA	739	G	O3'-P	5.39	1.67	1.61
1	AA	677	U	N3-C4	5.39	1.43	1.38
25	BA	1303	G	N9-C4	5.39	1.42	1.38
50	B2	13	ILE	CA-CB	5.39	1.67	1.54
1	AA	697	U	N3-C4	5.38	1.43	1.38
36	BN	32	TYR	CB-CG	-5.38	1.43	1.51
25	BA	974(A)	C	C2-N3	5.37	1.40	1.35
25	BA	576	U	C2-N3	5.37	1.41	1.37
25	BA	2614	A	C3'-O3'	5.36	1.49	1.42
25	BA	756	C	N1-C2	-5.36	1.34	1.40
1	AA	190	G	C5-C6	-5.34	1.37	1.42
25	BA	1359	A	C5-C6	-5.34	1.36	1.41
1	AA	1522	U	C2-N3	-5.33	1.34	1.37
1	AA	1417	G	C6-O6	5.33	1.28	1.24
25	BA	1666	G	C5-C6	-5.31	1.37	1.42
25	BA	1786	A	N1-C2	5.30	1.39	1.34
25	BA	2491	U	O3'-P	5.30	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	769	G	C6-O6	-5.26	1.19	1.24
25	BA	1993	U	C2-N3	5.26	1.41	1.37
25	BA	1771	C	C2-N3	-5.25	1.31	1.35
25	BA	2656	U	C5-C6	-5.25	1.29	1.34
25	BA	576	U	N1-C6	5.22	1.42	1.38
25	BA	1775	U	N1-C6	-5.22	1.33	1.38
25	BA	974(A)	C	O3'-P	5.21	1.67	1.61
25	BA	1630	G	N9-C4	-5.21	1.33	1.38
25	BA	1746	G	N9-C4	-5.19	1.33	1.38
25	BA	1695	G	C5-C6	-5.18	1.37	1.42
1	AA	519	C	N1-C2	5.16	1.45	1.40
25	BA	1816	G	N9-C4	-5.16	1.33	1.38
3	AD	64	C	N3-C4	-5.15	1.30	1.33
25	BA	1956	U	N1-C2	5.14	1.43	1.38
1	AA	197	A	O3'-P	-5.14	1.54	1.61
25	BA	2056	G	N3-C4	5.13	1.39	1.35
25	BA	2614	A	O3'-P	5.11	1.67	1.61
28	BD	245	PRO	CA-C	5.11	1.63	1.52
25	BA	621	A	C5-C6	-5.11	1.36	1.41
3	AD	50	G	C6-N1	-5.10	1.35	1.39
35	BM	42	TRP	CB-CG	5.09	1.59	1.50
25	BA	1628	G	N9-C4	-5.07	1.33	1.38
25	BA	1153	C	C5'-C4'	5.06	1.57	1.51
25	BA	1784	A	C5-C6	-5.06	1.36	1.41
25	BA	1824	G	N9-C4	-5.06	1.33	1.38
25	BA	1539	G	C2-N2	-5.05	1.29	1.34
25	BA	1524	G	C2-N3	-5.05	1.28	1.32
25	BA	2459	A	C5-C6	5.05	1.45	1.41
1	AA	877	C	N1-C2	-5.05	1.35	1.40
25	BA	974(A)	C	C3'-O3'	5.05	1.49	1.42
25	BA	1789	A	C6-N6	-5.04	1.29	1.33
7	AG	12	CYS	CA-CB	5.04	1.65	1.53
25	BA	1372	U	C5-C6	-5.04	1.29	1.34
25	BA	1765	C	C2-O2	-5.04	1.20	1.24
25	BA	1957	C	C2-O2	-5.03	1.20	1.24
25	BA	2442	C	N1-C2	-5.03	1.35	1.40
25	BA	2493	U	C5-C6	-5.01	1.29	1.34
1	AA	901	A	C5-C6	-5.00	1.36	1.41

All (959) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	412	A	O5'-P-OP2	-28.87	76.06	110.70
25	BA	1203	G	P-O3'-C3'	27.73	152.97	119.70
25	BA	2448	A	C5'-C4'-O4'	-27.33	76.31	109.10
30	BF	20	LEU	O-C-N	-25.54	81.83	122.70
1	AA	37	U	N3-C4-O4	-25.04	101.87	119.40
25	BA	412	A	O5'-P-OP1	-19.34	87.50	110.70
25	BA	411	G	OP2-P-O3'	-17.39	66.95	105.20
1	AA	173	U	P-O3'-C3'	17.00	140.10	119.70
25	BA	1204	A	N9-C1'-C2'	14.61	132.99	114.00
25	BA	2459	A	N9-C1'-C2'	13.84	131.99	114.00
25	BA	2602	A	P-O3'-C3'	-13.19	103.88	119.70
25	BA	411	G	OP1-P-O3'	-12.96	76.70	105.20
25	BA	1800	C	N1-C1'-C2'	-12.87	97.27	114.00
25	BA	1699	G	N9-C1'-C2'	12.51	130.26	114.00
25	BA	1992	G	N9-C1'-C2'	12.49	130.24	114.00
25	BA	2501	C	P-O3'-C3'	-12.23	105.02	119.70
25	BA	2384	G	N9-C1'-C2'	12.20	129.86	114.00
1	AA	961	U	N1-C1'-C2'	12.14	129.78	114.00
28	BD	251	GLY	N-CA-C	-11.96	83.19	113.10
1	AA	1494	G	N9-C1'-C2'	11.89	129.45	114.00
25	BA	974(A)	C	N1-C1'-C2'	11.72	129.23	114.00
25	BA	1666	G	O3'-P-O5'	11.62	126.08	104.00
1	AA	576	G	N9-C1'-C2'	11.62	129.11	114.00
25	BA	2076	U	N1-C1'-C2'	11.52	128.97	114.00
25	BA	1625	C	N1-C1'-C2'	11.51	128.96	114.00
25	BA	1668	A	O5'-P-OP1	-11.45	95.39	105.70
1	AA	196	A	P-O3'-C3'	-11.43	105.99	119.70
25	BA	1938	A	N9-C1'-C2'	11.26	128.64	114.00
25	BA	2500	U	N3-C4-O4	11.13	127.19	119.40
25	BA	2581	G	N9-C1'-C2'	10.95	128.23	114.00
25	BA	2499	C	OP2-P-O3'	10.93	129.24	105.20
25	BA	2500	U	C5-C4-O4	-10.85	119.39	125.90
25	BA	1778	U	C2-N3-C4	-10.82	120.51	127.00
25	BA	978	G	N9-C1'-C2'	10.79	128.03	114.00
25	BA	2756	U	P-O3'-C3'	10.58	132.39	119.70
25	BA	2501	C	N1-C2-O2	-10.38	112.67	118.90
25	BA	2610	C	N1-C1'-C2'	10.35	127.45	114.00
25	BA	2032	G	N9-C1'-C2'	10.30	127.39	114.00
25	BA	2433	A	N9-C1'-C2'	10.27	127.35	114.00
25	BA	1954	G	N9-C1'-C2'	10.27	127.35	114.00
25	BA	205	G	N9-C1'-C2'	10.27	127.35	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	1786	A	C4-N9-C1'	10.22	144.70	126.30
25	BA	2501	C	O3'-P-O5'	10.21	123.40	104.00
3	AD	65	U	N3-C4-O4	10.20	126.54	119.40
53	B5	24	GLU	N-CA-C	10.18	138.49	111.00
37	BO	24	GLY	N-CA-C	10.08	138.30	113.10
41	BS	66	VAL	N-CA-C	-10.07	83.81	111.00
1	AA	575	G	N9-C1'-C2'	10.06	127.07	114.00
25	BA	1203	G	O3'-P-O5'	10.04	123.08	104.00
53	B5	39	TYR	N-CA-C	10.02	138.04	111.00
25	BA	280	C	N1-C1'-C2'	9.99	126.98	114.00
1	AA	457	C	N1-C1'-C2'	-9.97	101.03	112.00
25	BA	1778	U	C5-C4-O4	-9.95	119.93	125.90
25	BA	1059	G	N9-C1'-C2'	-9.95	101.06	112.00
25	BA	740	U	O5'-P-OP1	-9.92	96.77	105.70
25	BA	1786	A	C6-N1-C2	-9.87	112.68	118.60
25	BA	2061	G	N9-C1'-C2'	9.86	126.81	114.00
25	BA	1786	A	C5-C6-N6	-9.77	115.88	123.70
25	BA	607	U	C5-C4-O4	-9.71	120.08	125.90
1	AA	173	U	O3'-P-O5'	-9.69	85.60	104.00
25	BA	196	A	N9-C1'-C2'	9.68	126.58	114.00
25	BA	1559	G	N9-C1'-C2'	-9.64	101.39	112.00
25	BA	2422	A	N9-C1'-C2'	9.53	126.39	114.00
25	BA	860	U	C5-C4-O4	-9.52	120.19	125.90
1	AA	961	U	O4'-C1'-N1	9.48	115.79	108.20
25	BA	775	G	N9-C1'-C2'	9.42	126.24	114.00
25	BA	2460	U	N1-C1'-C2'	9.42	126.24	114.00
25	BA	1786	A	C8-N9-C1'	-9.38	110.81	127.70
25	BA	1498	C	N1-C1'-C2'	9.37	126.18	114.00
35	BM	80	GLY	N-CA-C	-9.35	89.72	113.10
25	BA	2612	C	C5'-C4'-O4'	9.34	120.31	109.10
25	BA	1313	U	N1-C1'-C2'	9.30	126.09	114.00
25	BA	739	G	O4'-C1'-N9	9.30	115.64	108.20
3	AD	65	U	N3-C2-O2	9.28	128.70	122.20
25	BA	2491	U	O4'-C1'-C2'	-9.28	96.52	105.80
25	BA	2665	A	C5-C6-N6	-9.19	116.35	123.70
25	BA	2746	U	N1-C1'-C2'	-9.11	101.97	112.00
25	BA	687	C	N1-C1'-C2'	9.11	125.84	114.00
25	BA	1786	A	N3-C4-N9	9.08	134.66	127.40
1	AA	727	G	N9-C1'-C2'	-9.05	102.04	112.00
36	BN	120	GLU	N-CA-C	9.05	135.44	111.00
25	BA	1489	U	O4'-C1'-N1	9.03	115.42	108.20
25	BA	2490	G	N9-C1'-C2'	8.87	125.53	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	2665	A	C8-N9-C1'	-8.87	111.74	127.70
25	BA	2447	G	OP2-P-O3'	8.86	124.70	105.20
25	BA	2665	A	C4-N9-C1'	8.84	142.20	126.30
37	BO	30	THR	N-CA-C	8.81	134.79	111.00
1	AA	793	U	N1-C1'-C2'	8.80	125.44	114.00
29	BE	6	GLY	N-CA-C	-8.80	91.10	113.10
25	BA	800	A	N9-C1'-C2'	8.79	125.42	114.00
25	BA	2657	A	N9-C1'-C2'	-8.79	102.33	112.00
42	BT	83	LEU	CA-CB-CG	8.76	135.44	115.30
25	BA	2756	U	N1-C1'-C2'	8.71	125.32	114.00
1	AA	1192	C	N1-C2-O2	8.70	124.12	118.90
3	AD	65	U	C5-C6-N1	8.67	127.04	122.70
25	BA	2051	A	N9-C1'-C2'	8.66	125.26	114.00
25	BA	2501	C	OP2-P-O3'	-8.65	86.18	105.20
1	AA	47	C	N1-C1'-C2'	8.62	125.21	114.00
6	AF	188	LEU	CA-CB-CG	8.62	135.12	115.30
25	BA	1005	C	N1-C1'-C2'	8.61	125.19	114.00
31	BG	95	ARG	N-CA-C	8.60	134.22	111.00
53	B5	26	ASN	N-CA-C	8.58	134.18	111.00
1	AA	590	C	N1-C1'-C2'	-8.53	102.62	112.00
25	BA	1626	G	N9-C1'-C2'	8.50	125.05	114.00
25	BA	1240	U	C5-C4-O4	8.47	130.98	125.90
25	BA	685	A	N9-C1'-C2'	8.45	124.99	114.00
25	BA	2656	U	C5-C4-O4	-8.45	120.83	125.90
25	BA	2446	G	O3'-P-O5'	8.44	120.04	104.00
8	AH	97	GLY	N-CA-C	-8.43	92.03	113.10
25	BA	2590	A	N9-C1'-C2'	-8.39	102.77	112.00
25	BA	1667	G	OP1-P-O3'	8.39	123.66	105.20
25	BA	2613	U	N1-C1'-C2'	8.35	124.86	114.00
25	BA	2459	A	C4-N9-C1'	8.32	141.27	126.30
25	BA	987	G	N9-C1'-C2'	-8.28	102.89	112.00
25	BA	2612	C	N1-C2-O2	8.28	123.87	118.90
25	BA	1809	A	O4'-C1'-N9	8.26	114.81	108.20
25	BA	1775	U	C5-C4-O4	-8.26	120.94	125.90
25	BA	1775	U	C2-N1-C1'	8.25	127.60	117.70
25	BA	730	C	N1-C1'-C2'	8.20	124.66	114.00
25	BA	1183	G	N9-C1'-C2'	8.18	124.64	114.00
25	BA	1825	A	N9-C1'-C2'	-8.18	103.00	112.00
25	BA	2056	G	N3-C2-N2	8.18	125.62	119.90
1	AA	961	U	C5-C4-O4	-8.15	121.01	125.90
25	BA	1265	A	N9-C1'-C2'	8.15	124.59	114.00
4	A1	15	A	C3'-C2'-C1'	-8.12	95.00	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	1948	G	N9-C1'-C2'	-8.10	103.09	112.00
1	AA	397	A	N9-C1'-C2'	-8.09	103.10	112.00
43	BU	50	PRO	N-CA-C	8.08	133.11	112.10
25	BA	1566	A	N9-C1'-C2'	8.05	124.46	114.00
28	BD	45	ASN	N-CA-C	-8.05	89.27	111.00
35	BM	36	GLY	N-CA-C	-8.04	92.99	113.10
25	BA	1012	U	N1-C1'-C2'	-8.04	103.16	112.00
25	BA	2035	G	N9-C1'-C2'	8.02	124.43	114.00
1	AA	451	A	N9-C1'-C2'	8.02	124.42	114.00
1	AA	13	U	N1-C1'-C2'	8.02	124.42	114.00
25	BA	1706	U	N1-C1'-C2'	8.00	124.40	114.00
1	AA	1133	G	N9-C1'-C2'	-7.99	103.21	112.00
25	BA	1359	A	N9-C1'-C2'	-7.99	103.21	112.00
25	BA	2425	A	N9-C1'-C2'	7.94	124.33	114.00
25	BA	917	A	C4-N9-C1'	7.93	140.58	126.30
25	BA	917	A	C8-N9-C1'	-7.93	113.43	127.70
43	BU	98	GLU	N-CA-C	7.93	132.40	111.00
25	BA	2063	C	N1-C2-O2	7.92	123.66	118.90
25	BA	2459	A	C8-N9-C1'	-7.92	113.44	127.70
41	BS	42	ILE	N-CA-C	-7.91	89.65	111.00
28	BD	62	TYR	N-CA-C	7.89	132.31	111.00
41	BS	57	PHE	N-CA-C	7.84	132.16	111.00
25	BA	2665	A	N1-C6-N6	7.83	123.30	118.60
1	AA	196	A	OP2-P-O3'	-7.81	88.02	105.20
25	BA	643	A	N9-C1'-C2'	7.80	124.14	114.00
29	BE	43	GLY	N-CA-C	-7.78	93.65	113.10
7	AG	5	ILE	N-CA-C	-7.77	90.03	111.00
1	AA	397	A	N1-C6-N6	7.76	123.26	118.60
25	BA	1786	A	C5-C6-N1	7.75	121.58	117.70
1	AA	974	A	C5-C6-N6	-7.68	117.55	123.70
25	BA	739	G	C4'-C3'-C2'	-7.66	94.94	102.60
25	BA	1617	C	N1-C1'-C2'	7.65	123.95	114.00
25	BA	2213	U	N1-C1'-C2'	7.64	123.94	114.00
25	BA	774	A	C2'-C3'-O3'	7.64	126.30	109.50
25	BA	2756	U	O3'-P-O5'	7.63	118.49	104.00
25	BA	1998	G	N9-C1'-C2'	-7.61	103.63	112.00
41	BS	60	THR	N-CA-C	-7.61	90.46	111.00
25	BA	1667	G	O4'-C1'-N9	7.61	114.29	108.20
25	BA	2448	A	P-O3'-C3'	7.61	128.83	119.70
25	BA	1247	A	N9-C1'-C2'	7.59	123.86	114.00
25	BA	627	A	O4'-C1'-N9	7.56	114.25	108.20
25	BA	776	G	C5'-C4'-O4'	-7.53	100.07	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	BH	111	HIS	N-CA-C	7.51	131.28	111.00
50	B2	14	GLY	N-CA-C	-7.51	94.32	113.10
25	BA	1980	G	O4'-C1'-N9	-7.49	102.21	108.20
1	AA	1298	C	N1-C1'-C2'	7.49	123.73	114.00
25	BA	2056	G	N1-C2-N2	-7.48	109.47	116.20
1	AA	1528	U	N1-C1'-C2'	7.47	123.72	114.00
25	BA	1205	U	O4'-C1'-N1	7.47	114.18	108.20
25	BA	2522	U	N1-C1'-C2'	7.47	123.71	114.00
55	B7	17	THR	N-CA-C	-7.47	90.83	111.00
25	BA	2665	A	O4'-C1'-N9	-7.46	102.23	108.20
30	BF	13	SER	N-CA-C	-7.45	90.89	111.00
29	BE	131	ALA	N-CA-C	7.44	131.09	111.00
25	BA	2491	U	C2-N1-C1'	7.44	126.63	117.70
25	BA	534	U	O4'-C1'-N1	7.41	114.12	108.20
1	AA	1201	A	N9-C1'-C2'	7.40	123.61	114.00
25	BA	1203	G	OP2-P-O3'	-7.37	88.98	105.20
25	BA	1786	A	C4-C5-C6	7.37	120.68	117.00
25	BA	846	C	N1-C1'-C2'	7.36	123.57	114.00
1	AA	1049	U	C2'-C3'-O3'	7.36	125.69	109.50
47	BY	52	SER	N-CA-C	-7.34	91.18	111.00
1	AA	1494	G	C8-N9-C4	-7.33	103.47	106.40
25	BA	1780	A	N9-C1'-C2'	7.33	123.52	114.00
25	BA	189	G	N9-C1'-C2'	-7.32	103.95	112.00
25	BA	1786	A	N3-C4-C5	-7.32	121.68	126.80
25	BA	448	U	N1-C1'-C2'	7.31	123.50	114.00
25	BA	2198	A	N9-C1'-C2'	7.31	123.50	114.00
1	AA	173	U	OP1-P-O3'	7.30	121.26	105.20
25	BA	2064	C	C5'-C4'-C3'	-7.30	104.32	116.00
25	BA	1444(A)	A	N9-C1'-C2'	7.30	123.48	114.00
1	AA	243	A	C2'-C3'-O3'	7.27	125.50	109.50
25	BA	2499	C	OP1-P-O3'	-7.26	89.22	105.20
25	BA	1052	C	O4'-C1'-N1	7.26	114.01	108.20
25	BA	135	G	N9-C1'-C2'	-7.26	104.01	112.00
25	BA	1944	U	N1-C1'-C2'	-7.23	104.05	112.00
25	BA	2560	C	N1-C1'-C2'	-7.22	104.05	112.00
1	AA	1302	U	N1-C1'-C2'	7.22	123.39	114.00
25	BA	2320	A	N9-C1'-C2'	7.20	123.36	114.00
25	BA	2596	U	N1-C1'-C2'	-7.20	104.08	112.00
26	BB	118	G	N9-C1'-C2'	-7.19	104.09	112.00
25	BA	676	A	N9-C1'-C2'	7.19	123.35	114.00
25	BA	2460	U	C2-N1-C1'	7.18	126.32	117.70
1	AA	1271	G	N9-C1'-C2'	-7.17	104.11	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	1625	C	O4'-C1'-N1	-7.17	102.46	108.20
25	BA	1663	C	N1-C1'-C2'	7.17	123.32	114.00
1	AA	172	A	O3'-P-O5'	-7.15	90.41	104.00
1	AA	13	U	O4'-C1'-N1	-7.15	102.48	108.20
1	AA	531	U	N1-C1'-C2'	7.15	123.30	114.00
25	BA	960	A	N9-C1'-C2'	7.15	123.30	114.00
30	BF	47	GLY	N-CA-C	7.14	130.96	113.10
41	BS	63	VAL	N-CA-C	-7.14	91.73	111.00
9	AI	48	LEU	CA-CB-CG	-7.13	98.90	115.30
30	BF	196	LEU	CA-CB-CG	-7.13	98.90	115.30
37	BO	23	PRO	N-CA-C	7.13	130.63	112.10
25	BA	573	G	N9-C1'-C2'	7.11	123.24	114.00
42	BT	87	GLY	N-CA-C	7.10	130.85	113.10
25	BA	776	G	C5'-C4'-C3'	7.09	127.35	116.00
25	BA	2195	C	N1-C1'-C2'	7.09	123.22	114.00
25	BA	2705	A	N9-C1'-C2'	-7.08	104.21	112.00
1	AA	1498	U	N1-C1'-C2'	7.07	123.19	114.00
25	BA	2885	C	N1-C1'-C2'	-7.07	104.22	112.00
1	AA	1402	C	N1-C1'-C2'	-7.07	104.22	112.00
35	BM	127	ASP	N-CA-C	-7.07	91.92	111.00
25	BA	282	A	N9-C1'-C2'	-7.06	104.23	112.00
25	BA	2448	A	O5'-C5'-C4'	-7.04	98.32	111.70
16	AP	81	LEU	CA-CB-CG	7.04	131.48	115.30
25	BA	1786	A	C6-C5-N7	-7.03	127.38	132.30
25	BA	1363	C	N1-C1'-C2'	-7.03	104.27	112.00
1	AA	974	A	C6-N1-C2	-7.02	114.39	118.60
32	BH	165	ALA	N-CA-C	-7.02	92.06	111.00
25	BA	2118	U	N1-C1'-C2'	7.00	123.11	114.00
25	BA	801	G	N9-C1'-C2'	7.00	123.10	114.00
41	BS	29	ARG	N-CA-C	-6.99	92.11	111.00
25	BA	1746	G	O4'-C1'-N9	6.99	113.79	108.20
51	B3	4	GLY	N-CA-C	-6.98	95.64	113.10
1	AA	1398	A	N9-C1'-C2'	-6.98	104.32	112.00
7	AG	31	CYS	CA-CB-SG	6.98	126.56	114.00
1	AA	1200	C	N1-C1'-C2'	6.98	123.07	114.00
25	BA	2503	A	C5'-C4'-O4'	6.98	117.47	109.10
1	AA	7	G	N9-C1'-C2'	6.97	123.06	114.00
25	BA	2602	A	N9-C1'-C2'	6.97	123.06	114.00
25	BA	2876	G	N9-C1'-C2'	-6.94	104.37	112.00
25	BA	703	U	O4'-C1'-N1	6.94	113.75	108.20
25	BA	791	C	N1-C1'-C2'	6.93	123.01	114.00
1	AA	490	G	N9-C1'-C2'	-6.91	104.39	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	BS	43	GLN	N-CA-C	-6.91	92.35	111.00
1	AA	1341	U	N1-C1'-C2'	-6.90	104.41	112.00
1	AA	511	C	N1-C1'-C2'	6.89	122.96	114.00
25	BA	2491	U	C6-N1-C2	-6.89	116.86	121.00
25	BA	149	A	N9-C1'-C2'	-6.88	104.43	112.00
1	AA	579	G	N9-C1'-C2'	6.87	122.93	114.00
25	BA	271(B)	G	N9-C1'-C2'	6.87	122.92	114.00
1	AA	388	G	N9-C1'-C2'	6.86	122.92	114.00
25	BA	978	G	O4'-C1'-N9	6.86	113.69	108.20
43	BU	63	GLY	N-CA-C	-6.85	95.97	113.10
25	BA	1130	U	C2'-C3'-O3'	6.84	124.65	113.70
25	BA	1955	U	N1-C1'-C2'	6.84	122.89	114.00
25	BA	1651	G	N9-C1'-C2'	-6.84	104.48	112.00
25	BA	1012	U	O4'-C4'-C3'	-6.83	97.17	104.00
2	AC	19	G	N9-C1'-C2'	6.81	122.86	114.00
25	BA	1489	U	C2-N1-C1'	-6.80	109.54	117.70
25	BA	1642	G	N9-C1'-C2'	-6.78	104.54	112.00
1	AA	1054	C	N1-C1'-C2'	-6.77	104.56	112.00
25	BA	1493	C	N1-C1'-C2'	6.77	122.80	114.00
1	AA	13	U	C2-N1-C1'	6.76	125.81	117.70
25	BA	1191	G	N9-C1'-C2'	-6.76	104.57	112.00
46	BX	29	GLU	N-CA-C	6.75	129.24	111.00
28	BD	16	MET	N-CA-C	-6.75	92.77	111.00
51	B3	55	ARG	N-CA-C	-6.75	92.77	111.00
25	BA	1775	U	C4'-C3'-C2'	-6.74	95.86	102.60
25	BA	764	A	O4'-C1'-N9	6.74	113.59	108.20
25	BA	2755	C	O3'-P-O5'	6.73	116.79	104.00
25	BA	2318	G	N9-C1'-C2'	6.73	122.75	114.00
1	AA	352	C	N1-C1'-C2'	6.72	122.74	114.00
25	BA	1604	C	N1-C1'-C2'	6.72	122.74	114.00
25	BA	2062	A	O4'-C1'-N9	6.72	113.58	108.20
25	BA	2522	U	C5'-C4'-C3'	-6.72	105.24	116.00
25	BA	1300	U	C2'-C3'-O3'	6.72	124.45	113.70
43	BU	79	VAL	N-CA-C	-6.72	92.86	111.00
25	BA	2614	A	N9-C1'-C2'	6.71	122.73	114.00
29	BE	146	THR	N-CA-C	-6.70	92.91	111.00
1	AA	146	G	N9-C1'-C2'	-6.69	104.64	112.00
37	BO	138	LEU	CA-CB-CG	6.67	130.65	115.30
25	BA	602	G	N9-C1'-C2'	6.67	122.67	114.00
1	AA	974	A	N9-C1'-C2'	6.67	122.67	114.00
25	BA	1516	U	N3-C4-O4	-6.66	114.74	119.40
25	BA	2236	C	O4'-C1'-N1	-6.66	102.87	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	2447	G	N9-C1'-C2'	6.66	122.66	114.00
48	BZ	71	ASP	N-CA-C	-6.66	93.02	111.00
55	B7	35	GLN	N-CA-C	-6.65	93.04	111.00
25	BA	83	G	N9-C1'-C2'	6.65	122.64	114.00
27	BC	33	ALA	N-CA-C	6.64	128.93	111.00
25	BA	2250	G	C5'-C4'-C3'	-6.64	105.38	116.00
25	BA	1618	A	N9-C1'-C2'	6.63	122.62	114.00
1	AA	1124	G	N9-C1'-C2'	6.62	122.61	114.00
25	BA	2601	C	OP2-P-O3'	6.62	119.76	105.20
3	AD	65	U	C2-N1-C1'	6.62	125.64	117.70
25	BA	2111	C	N1-C1'-C2'	6.62	122.60	114.00
32	BH	82	GLY	N-CA-C	-6.61	96.57	113.10
1	AA	282	A	O5'-P-OP1	-6.59	99.76	105.70
1	AA	1054	C	O4'-C4'-C3'	-6.59	97.41	104.00
25	BA	1205	U	C5'-C4'-O4'	6.59	117.00	109.10
49	B1	5	LEU	CA-CB-CG	6.58	130.44	115.30
1	AA	793	U	O4'-C1'-N1	6.57	113.46	108.20
1	AA	1135	U	N1-C1'-C2'	6.57	122.55	114.00
25	BA	865	C	N1-C1'-C2'	6.57	122.54	114.00
1	AA	82	U	N3-C4-O4	-6.57	114.80	119.40
25	BA	1666	G	OP1-P-O3'	-6.57	90.75	105.20
41	BS	71	GLY	N-CA-C	-6.57	96.68	113.10
54	B6	42	LEU	CA-CB-CG	-6.56	100.20	115.30
25	BA	2501	C	N3-C2-O2	6.56	126.49	121.90
28	BD	248	SER	N-CA-C	-6.56	93.29	111.00
38	BP	34	LEU	CA-CB-CG	-6.56	100.22	115.30
25	BA	2702	U	N1-C1'-C2'	-6.55	104.79	112.00
25	BA	2063	C	C2-N1-C1'	6.55	126.01	118.80
3	AD	61	C	C5-C4-N4	-6.54	115.62	120.20
1	AA	974	A	C8-N9-C1'	-6.53	115.94	127.70
1	AA	60	A	N9-C1'-C2'	6.53	122.49	114.00
25	BA	1507	A	O4'-C1'-N9	6.53	113.42	108.20
25	BA	1667	G	C5'-C4'-C3'	6.53	126.44	116.00
25	BA	1941	C	N1-C1'-C2'	-6.53	104.82	112.00
25	BA	1024	G	O4'-C4'-C3'	-6.52	97.48	104.00
1	AA	1347	G	N9-C1'-C2'	6.52	122.47	114.00
41	BS	99	LEU	CA-CB-CG	-6.51	100.33	115.30
25	BA	1522	G	N9-C1'-C2'	-6.51	104.84	112.00
25	BA	587	C	N1-C1'-C2'	6.49	122.44	114.00
1	AA	397	A	C5-C6-N6	-6.49	118.51	123.70
25	BA	686	G	C2'-C3'-O3'	-6.49	95.23	109.50
3	AD	65	U	N3-C4-C5	-6.48	110.71	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	AO	59	ARG	N-CA-C	-6.48	93.50	111.00
25	BA	2522	U	C2-N1-C1'	6.48	125.47	117.70
25	BA	1899	G	O4'-C1'-N9	-6.47	103.02	108.20
25	BA	2493	U	N1-C1'-C2'	-6.47	104.88	112.00
25	BA	532	A	N9-C1'-C2'	6.47	122.41	114.00
31	BG	42	GLY	N-CA-C	6.46	129.25	113.10
25	BA	67	U	N1-C2-O2	6.46	127.32	122.80
25	BA	387	U	N1-C1'-C2'	6.46	122.39	114.00
53	B5	37	ARG	N-CA-C	6.46	128.43	111.00
25	BA	2517	C	N1-C1'-C2'	6.45	122.39	114.00
25	BA	2491	U	C4'-C3'-O3'	6.45	125.90	113.00
25	BA	834	C	N1-C1'-C2'	-6.45	104.91	112.00
25	BA	2459	A	C6-N1-C2	-6.44	114.73	118.60
25	BA	776	G	N9-C1'-C2'	6.44	122.37	114.00
25	BA	1785	A	N9-C1'-C2'	6.43	122.36	114.00
1	AA	1408	A	N9-C1'-C2'	-6.43	104.93	112.00
1	AA	1139	G	N9-C1'-C2'	6.43	122.36	114.00
39	BQ	100	LEU	CA-CB-CG	6.42	130.07	115.30
25	BA	2725	A	N9-C1'-C2'	6.42	122.34	114.00
25	BA	2491	U	C5-C4-O4	-6.41	122.05	125.90
43	BU	49	THR	C-N-CD	-6.41	106.49	120.60
25	BA	2612	C	O4'-C1'-N1	6.41	113.33	108.20
43	BU	12	TYR	N-CA-C	6.41	128.30	111.00
1	AA	1408	A	C4'-C3'-C2'	-6.40	96.20	102.60
25	BA	15	G	N9-C1'-C2'	-6.40	104.96	112.00
25	BA	1785	A	C4'-C3'-C2'	-6.40	96.20	102.60
36	BN	74	GLY	N-CA-C	-6.39	97.13	113.10
25	BA	911	A	N9-C1'-C2'	6.38	122.30	114.00
51	B3	12	ALA	N-CA-C	6.38	128.21	111.00
1	AA	974	A	C4-N9-C1'	6.37	137.76	126.30
21	AU	75	ILE	CB-CA-C	-6.37	98.87	111.60
1	AA	813	U	N1-C1'-C2'	6.36	122.27	114.00
1	AA	21	G	O4'-C1'-N9	6.35	113.28	108.20
38	BP	20	ALA	N-CA-C	6.35	128.15	111.00
25	BA	1204	A	C4-N9-C1'	6.35	137.73	126.30
25	BA	1170	G	N9-C1'-C2'	-6.34	105.03	112.00
1	AA	961	U	C2-N1-C1'	6.33	125.30	117.70
25	BA	787	U	C5'-C4'-O4'	6.33	116.69	109.10
36	BN	58	VAL	N-CA-C	-6.33	93.92	111.00
25	BA	270(G)	C	O4'-C1'-N1	6.32	113.26	108.20
25	BA	1943	U	N1-C1'-C2'	6.31	122.21	114.00
45	BW	63	LYS	N-CA-C	6.31	128.03	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	1941	C	O4'-C4'-C3'	-6.30	97.69	104.00
25	BA	1240	U	N3-C4-O4	-6.30	114.99	119.40
25	BA	688	U	C2-N3-C4	-6.29	123.22	127.00
25	BA	101	G	N9-C1'-C2'	6.29	122.17	114.00
25	BA	1781	C	O4'-C1'-N1	6.27	113.22	108.20
28	BD	147	LEU	CA-CB-CG	6.27	129.72	115.30
11	AK	10	LEU	CA-CB-CG	6.26	129.71	115.30
25	BA	2062	A	C1'-O4'-C4'	-6.26	104.89	109.90
43	BU	94	LEU	N-CA-C	-6.26	94.09	111.00
51	B3	63	TYR	CA-CB-CG	6.26	125.30	113.40
8	AH	71	LEU	CA-CB-CG	6.26	129.70	115.30
1	AA	961	U	C2-N3-C4	-6.26	123.24	127.00
47	BY	179	ASP	N-CA-C	6.26	127.90	111.00
25	BA	756	C	N1-C1'-C2'	-6.26	105.12	112.00
1	AA	517	G	N9-C1'-C2'	6.24	122.11	114.00
25	BA	1173	G	N9-C1'-C2'	6.23	122.10	114.00
25	BA	1024	G	N9-C1'-C2'	-6.23	105.14	112.00
25	BA	1207	C	N1-C1'-C2'	6.23	122.10	114.00
25	BA	603	A	C5'-C4'-C3'	6.22	125.96	116.00
25	BA	2198	A	O4'-C1'-N9	6.22	113.18	108.20
1	AA	347	G	N9-C1'-C2'	-6.22	105.16	112.00
25	BA	1321	A	N9-C1'-C2'	-6.21	105.17	112.00
25	BA	1697	G	N9-C1'-C2'	-6.20	105.18	112.00
25	BA	2346	A	O4'-C1'-N9	6.20	113.16	108.20
25	BA	2612	C	N1-C1'-C2'	6.20	122.06	114.00
25	BA	2056	G	N3-C4-N9	6.20	129.72	126.00
1	AA	645	C	N1-C1'-C2'	-6.19	105.19	112.00
25	BA	1785	A	N1-C6-N6	-6.19	114.89	118.60
25	BA	2586	C	N1-C1'-C2'	-6.19	105.19	112.00
29	BE	15	PHE	N-CA-C	-6.19	94.30	111.00
25	BA	1469	A	N9-C1'-C2'	-6.17	105.21	112.00
25	BA	472	A	N9-C1'-C2'	-6.17	105.22	112.00
50	B2	27	GLY	N-CA-C	-6.17	97.68	113.10
25	BA	2067	G	N9-C1'-C2'	6.17	122.02	114.00
25	BA	2548	G	OP2-P-O3'	6.17	118.76	105.20
6	AF	43	LEU	CA-CB-CG	6.16	129.47	115.30
25	BA	2423	U	O4'-C1'-N1	-6.16	103.27	108.20
7	AG	28	SER	C-N-CD	-6.16	107.06	120.60
25	BA	1668	A	C5'-C4'-C3'	6.15	125.84	116.00
25	BA	1809	A	O4'-C4'-C3'	-6.15	97.85	104.00
25	BA	1489	U	C6-N1-C1'	6.14	129.80	121.20
25	BA	2491	U	O4'-C4'-C3'	-6.14	97.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	2848	G	N9-C1'-C2'	6.14	121.98	114.00
47	BY	11	GLU	N-CA-C	6.14	127.57	111.00
19	AS	31	LYS	N-CA-C	-6.13	94.44	111.00
3	AD	65	U	C6-N1-C1'	-6.13	112.61	121.20
28	BD	61	LEU	CA-CB-CG	6.13	129.41	115.30
25	BA	1397	U	N1-C1'-C2'	6.13	121.97	114.00
1	AA	820	U	N1-C1'-C2'	6.13	121.97	114.00
25	BA	2449	U	O4'-C4'-C3'	-6.12	97.88	104.00
25	BA	978	G	C5-C6-O6	6.10	132.26	128.60
25	BA	2056	G	C4-N9-C1'	6.09	134.42	126.50
25	BA	562	U	N1-C1'-C2'	6.09	121.92	114.00
25	BA	1775	U	C6-N1-C1'	-6.09	112.68	121.20
55	B7	6	THR	N-CA-C	-6.08	94.58	111.00
25	BA	764	A	C1'-O4'-C4'	-6.08	105.04	109.90
25	BA	1265	A	O4'-C1'-N9	6.08	113.06	108.20
1	AA	752	G	N9-C1'-C2'	6.07	121.89	114.00
25	BA	1665	A	N9-C1'-C2'	6.07	121.89	114.00
25	BA	270(E)	G	O4'-C1'-N9	6.06	113.05	108.20
1	AA	1175	G	N9-C1'-C2'	-6.06	105.34	112.00
40	BR	62	LYS	N-CA-C	6.05	127.34	111.00
25	BA	270(B)	A	O4'-C1'-N9	6.04	113.04	108.20
25	BA	1420	U	C5'-C4'-O4'	-6.04	101.85	109.10
25	BA	762	U	N1-C1'-C2'	6.04	121.85	114.00
1	AA	144	G	N9-C1'-C2'	-6.04	105.36	112.00
3	AD	61	C	N1-C1'-C2'	6.04	121.85	114.00
25	BA	1663	C	O4'-C1'-N1	-6.04	103.37	108.20
25	BA	400	G	N9-C1'-C2'	-6.03	105.36	112.00
52	B4	41	PRO	N-CA-C	-6.03	96.42	112.10
25	BA	2682	U	N1-C1'-C2'	-6.03	105.37	112.00
25	BA	739	G	C5'-C4'-C3'	6.02	125.63	116.00
25	BA	532	A	O4'-C1'-N9	6.02	113.01	108.20
25	BA	2656	U	C2-N3-C4	-6.01	123.39	127.00
29	BE	114	ALA	N-CA-C	6.01	127.22	111.00
1	AA	88	C	O4'-C1'-N1	6.00	113.00	108.20
1	AA	13	U	C6-N1-C1'	-6.00	112.80	121.20
28	BD	221	VAL	N-CA-C	-6.00	94.80	111.00
25	BA	2491	U	C2'-C3'-O3'	6.00	123.30	113.70
25	BA	2665	A	C6-N1-C2	-6.00	115.00	118.60
1	AA	817	C	O4'-C1'-N1	5.99	113.00	108.20
25	BA	574	C	N1-C1'-C2'	5.99	121.79	114.00
25	BA	1265	A	C1'-O4'-C4'	-5.99	105.11	109.90
28	BD	272	ALA	N-CA-C	5.99	127.16	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	BP	82	ARG	N-CA-C	-5.99	94.84	111.00
9	AI	99	ALA	N-CA-C	-5.98	94.85	111.00
6	AF	48	TYR	N-CA-C	-5.98	94.86	111.00
25	BA	860	U	N3-C4-O4	-5.98	115.22	119.40
28	BD	14	ARG	N-CA-C	5.98	127.14	111.00
25	BA	1086	A	O4'-C1'-N9	5.97	112.98	108.20
28	BD	192	THR	N-CA-C	-5.97	94.88	111.00
40	BR	65	VAL	N-CA-C	-5.97	94.87	111.00
28	BD	252	TRP	N-CA-C	5.97	127.12	111.00
31	BG	96	ARG	N-CA-C	5.97	127.12	111.00
25	BA	1479	G	O4'-C1'-N9	5.97	112.97	108.20
25	BA	2491	U	C3'-C2'-C1'	-5.96	96.73	101.50
25	BA	2825	C	N1-C1'-C2'	-5.96	105.44	112.00
3	AD	61	C	O4'-C1'-N1	5.96	112.97	108.20
25	BA	1786	A	N1-C6-N6	5.95	122.17	118.60
28	BD	238	GLY	N-CA-C	-5.94	98.24	113.10
1	AA	275	G	N9-C1'-C2'	-5.93	105.47	112.00
25	BA	532	A	C1'-O4'-C4'	-5.93	105.16	109.90
42	BT	95	LEU	CA-CB-CG	-5.92	101.69	115.30
28	BD	159	ALA	N-CA-C	-5.92	95.03	111.00
1	AA	48	C	O4'-C1'-N1	5.91	112.93	108.20
25	BA	2196	C	N1-C1'-C2'	5.91	121.68	114.00
1	AA	644	G	N9-C1'-C2'	-5.89	105.52	112.00
25	BA	444	C	N1-C1'-C2'	-5.89	105.52	112.00
29	BE	37	ARG	N-CA-C	5.89	126.91	111.00
25	BA	782	A	N9-C1'-C2'	5.89	121.66	114.00
38	BP	106	VAL	N-CA-C	5.89	126.90	111.00
1	AA	962	C	C5'-C4'-O4'	5.89	116.17	109.10
25	BA	554	U	N1-C1'-C2'	5.88	121.64	114.00
25	BA	2642	G	N9-C1'-C2'	-5.88	105.53	112.00
51	B3	13	ARG	N-CA-C	5.88	126.88	111.00
25	BA	1815	A	N9-C1'-C2'	5.88	121.64	114.00
25	BA	1970	A	C5'-C4'-O4'	5.87	116.15	109.10
25	BA	2053	G	N9-C1'-C2'	-5.87	105.54	112.00
29	BE	158	GLY	N-CA-C	5.87	127.78	113.10
1	AA	843	U	N1-C1'-C2'	5.87	121.63	114.00
1	AA	974	A	N1-C6-N6	5.87	122.12	118.60
1	AA	429	U	N1-C1'-C2'	5.87	121.62	114.00
1	AA	1084	G	N9-C1'-C2'	5.86	121.62	114.00
7	AG	30	LYS	N-CA-C	5.86	126.83	111.00
25	BA	1968	G	N9-C1'-C2'	-5.86	105.55	112.00
52	B4	13	LYS	N-CA-C	-5.86	95.17	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	1220	A	N9-C1'-C2'	5.86	121.62	114.00
1	AA	1192	C	C2-N1-C1'	5.85	125.23	118.80
1	AA	1166	G	N9-C1'-C2'	-5.85	105.57	112.00
25	BA	621	A	N9-C1'-C2'	-5.84	105.58	112.00
1	AA	818	G	N9-C1'-C2'	5.84	121.59	114.00
27	BC	214	VAL	N-CA-C	-5.83	95.25	111.00
1	AA	7	G	C1'-O4'-C4'	-5.83	105.23	109.90
1	AA	1123	A	N9-C1'-C2'	5.83	121.58	114.00
25	BA	1559	G	C3'-C2'-C1'	-5.83	96.84	101.50
25	BA	2144	U	N1-C1'-C2'	5.83	121.57	114.00
25	BA	2456	C	C5'-C4'-C3'	-5.83	106.68	116.00
25	BA	2609	U	N1-C1'-C2'	5.83	121.57	114.00
30	BF	173	VAL	N-CA-C	5.82	126.72	111.00
30	BF	170	LEU	CA-CB-CG	5.81	128.67	115.30
37	BO	40	SER	N-CA-C	5.81	126.70	111.00
1	AA	21	G	O4'-C4'-C3'	-5.81	98.19	104.00
25	BA	1537	C	N1-C1'-C2'	-5.81	105.61	112.00
3	AD	69	C	O4'-C1'-N1	5.80	112.84	108.20
25	BA	1300	U	N1-C1'-C2'	5.80	121.54	114.00
1	AA	456	C	N1-C1'-C2'	-5.80	105.62	112.00
1	AA	1346	A	N9-C1'-C2'	5.80	121.54	114.00
15	AO	118	SER	N-CA-C	-5.80	95.35	111.00
25	BA	739	G	C1'-O4'-C4'	-5.80	105.26	109.90
33	BK	147	GLN	N-CA-C	-5.79	95.35	111.00
17	AQ	27	CYS	CA-CB-SG	5.79	124.43	114.00
25	BA	2076	U	O4'-C4'-C3'	5.79	110.73	106.10
25	BA	1480	G	C2'-C3'-O3'	5.78	122.95	113.70
25	BA	1625	C	C2-N1-C1'	5.78	125.16	118.80
1	AA	209	U	N1-C1'-C2'	5.78	121.51	114.00
1	AA	37	U	N1-C1'-C2'	-5.78	105.64	112.00
25	BA	746	A	C1'-O4'-C4'	-5.78	105.28	109.90
25	BA	1313	U	C2-N1-C1'	5.78	124.63	117.70
25	BA	2585	U	N1-C1'-C2'	5.78	121.51	114.00
25	BA	427	U	C5-C4-O4	-5.77	122.44	125.90
1	AA	13	U	C5'-C4'-O4'	5.77	116.02	109.10
25	BA	1704	G	N9-C1'-C2'	-5.77	105.65	112.00
25	BA	2726	U	N1-C1'-C2'	5.77	121.50	114.00
28	BD	53	PHE	N-CA-C	5.77	126.57	111.00
35	BM	49	GLY	N-CA-C	-5.77	98.68	113.10
25	BA	745	G	N9-C1'-C2'	5.76	121.48	114.00
25	BA	774	A	N9-C1'-C2'	5.76	121.49	114.00
1	AA	580	U	C5'-C4'-O4'	5.75	116.00	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	2447	G	P-O3'-C3'	5.75	126.60	119.70
29	BE	5	LEU	N-CA-C	5.75	126.52	111.00
25	BA	446	G	N9-C1'-C2'	5.74	121.47	114.00
44	BV	86	LEU	CA-CB-CG	-5.74	102.09	115.30
1	AA	250	A	O4'-C1'-N9	-5.74	103.61	108.20
46	BX	46	LYS	N-CA-C	5.74	126.50	111.00
50	B2	38	GLU	N-CA-C	-5.74	95.51	111.00
25	BA	1970	A	O4'-C1'-N9	5.74	112.79	108.20
1	AA	529	G	N9-C1'-C2'	-5.73	105.70	112.00
28	BD	242	ARG	N-CA-C	5.73	126.47	111.00
3	AD	76	A	N9-C1'-C2'	5.72	121.43	114.00
45	BW	47	PHE	N-CA-C	5.71	126.43	111.00
1	AA	48	C	N1-C1'-C2'	5.71	121.43	114.00
29	BE	19	ARG	N-CA-C	-5.71	95.58	111.00
3	AD	61	C	N3-C4-N4	5.70	121.99	118.00
25	BA	1158	C	N1-C1'-C2'	-5.70	105.73	112.00
25	BA	717	G	O4'-C1'-N9	5.70	112.76	108.20
25	BA	2267	A	O4'-C1'-N9	5.70	112.76	108.20
28	BD	54	ARG	N-CA-C	-5.70	95.62	111.00
45	BW	13	LEU	CA-CB-CG	-5.70	102.20	115.30
17	AQ	40	CYS	N-CA-C	-5.69	95.63	111.00
25	BA	1204	A	C8-N9-C1'	-5.69	117.45	127.70
44	BV	94	ASP	N-CA-C	-5.69	95.63	111.00
29	BE	49	LEU	CA-CB-CG	5.69	128.39	115.30
29	BE	137	HIS	C-N-CD	-5.69	108.08	120.60
25	BA	1775	U	C2-N3-C4	-5.69	123.59	127.00
1	AA	1185	G	N9-C1'-C2'	-5.68	105.75	112.00
25	BA	515	A	C4-N9-C1'	5.68	136.53	126.30
25	BA	2781	A	C2'-C3'-O3'	5.68	122.79	113.70
32	BH	131	VAL	O-C-N	5.68	131.79	122.70
39	BQ	102	GLU	N-CA-C	5.68	126.34	111.00
25	BA	2196	C	C5'-C4'-O4'	5.68	115.92	109.10
1	AA	1481	U	O4'-C1'-N1	5.68	112.74	108.20
25	BA	1607	C	N1-C1'-C2'	5.68	121.38	114.00
33	BK	8	PRO	N-CA-C	5.68	126.86	112.10
25	BA	846	C	C2'-C3'-O3'	5.67	122.78	113.70
25	BA	2334	G	O4'-C1'-N9	5.67	112.74	108.20
41	BS	32	TYR	CA-CB-CG	-5.67	102.63	113.40
1	AA	559	A	N9-C1'-C2'	5.67	121.37	114.00
25	BA	1516	U	N3-C4-C5	-5.67	111.20	114.60
1	AA	13	U	N3-C4-O4	5.67	123.36	119.40
19	AS	19	ILE	N-CA-C	-5.66	95.72	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BE	116	VAL	N-CA-C	-5.66	95.72	111.00
25	BA	161	U	N1-C1'-C2'	-5.66	105.78	112.00
25	BA	1372	U	C5-C4-O4	-5.66	122.51	125.90
25	BA	1674	G	O4'-C1'-N9	5.66	112.72	108.20
25	BA	1602	U	O4'-C1'-N1	-5.65	103.68	108.20
26	BB	119	A	N9-C1'-C2'	-5.65	105.78	112.00
25	BA	1800	C	O4'-C4'-C3'	-5.65	98.35	104.00
25	BA	1240	U	N1-C1'-C2'	-5.65	105.79	112.00
25	BA	2576	G	O4'-C1'-N9	-5.63	103.69	108.20
3	AD	61	C	N1-C2-O2	5.63	122.28	118.90
25	BA	2413	G	N9-C1'-C2'	-5.63	105.81	112.00
4	A1	14	A	O4'-C1'-N9	-5.62	103.70	108.20
51	B3	21	VAL	N-CA-C	5.62	126.18	111.00
25	BA	2835	A	N9-C1'-C2'	5.62	121.31	114.00
25	BA	1460	A	O4'-C1'-N9	5.62	112.69	108.20
25	BA	412	A	OP1-P-OP2	5.62	128.02	119.60
20	AT	61	GLU	N-CA-C	-5.60	95.88	111.00
29	BE	200	GLU	N-CA-C	5.60	126.12	111.00
25	BA	279	C	N1-C1'-C2'	5.60	121.28	114.00
25	BA	1189	A	N9-C1'-C2'	-5.59	105.85	112.00
28	BD	10	THR	C-N-CD	5.59	140.15	128.40
1	AA	372	C	C1'-O4'-C4'	-5.59	105.43	109.90
25	BA	2601	C	OP1-P-O3'	-5.59	92.90	105.20
25	BA	411	G	O3'-P-O5'	5.59	114.62	104.00
1	AA	319	G	N9-C1'-C2'	-5.58	105.86	112.00
25	BA	698	C	N1-C1'-C2'	5.58	121.26	114.00
25	BA	1746	G	C4-N9-C1'	-5.58	119.24	126.50
7	AG	9	CYS	CA-CB-SG	5.58	124.04	114.00
25	BA	1514	U	O3'-P-O5'	5.58	114.59	104.00
25	BA	2336	A	N9-C1'-C2'	5.57	121.25	114.00
37	BO	62	LEU	N-CA-C	-5.57	95.95	111.00
1	AA	158	G	N9-C1'-C2'	-5.57	105.87	112.00
23	AW	14	LYS	N-CA-C	-5.57	95.95	111.00
32	BH	161	GLY	N-CA-C	5.57	127.03	113.10
25	BA	2266	A	N9-C1'-C2'	5.57	121.24	114.00
35	BM	51	PHE	N-CA-C	-5.56	95.98	111.00
43	BU	66	ARG	N-CA-C	5.56	126.02	111.00
25	BA	587	C	O4'-C1'-N1	5.56	112.65	108.20
51	B3	43	TYR	CA-CB-CG	5.56	123.97	113.40
25	BA	974(A)	C	C6-N1-C2	-5.56	118.08	120.30
1	AA	1192	C	N3-C2-O2	-5.55	118.01	121.90
25	BA	1667	G	C1'-O4'-C4'	-5.55	105.46	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	1956	U	N3-C4-O4	5.55	123.29	119.40
28	BD	215	LEU	CA-CB-CG	-5.55	102.53	115.30
25	BA	2587	A	N9-C1'-C2'	5.55	121.21	114.00
38	BP	39	PRO	N-CA-C	5.55	126.52	112.10
29	BE	5	LEU	CA-CB-CG	5.54	128.04	115.30
1	AA	199	G	C5'-C4'-C3'	-5.54	107.14	116.00
25	BA	2392	A	N9-C1'-C2'	-5.54	105.91	112.00
38	BP	63	LYS	N-CA-C	5.54	125.94	111.00
25	BA	2250	G	O4'-C1'-N9	-5.53	103.78	108.20
51	B3	58	ARG	N-CA-C	5.53	125.92	111.00
53	B5	31	PRO	N-CA-C	5.52	126.45	112.10
40	BR	63	THR	N-CA-C	-5.52	96.10	111.00
1	AA	960	U	N1-C1'-C2'	5.51	121.17	114.00
7	AG	189	PRO	N-CA-C	-5.51	97.77	112.10
25	BA	2047	U	C2'-C3'-O3'	5.51	122.52	113.70
44	BV	11	ARG	N-CA-C	5.51	125.88	111.00
1	AA	560	U	C2'-C3'-O3'	5.50	122.51	113.70
25	BA	2239	G	N9-C1'-C2'	5.49	121.14	114.00
25	BA	270(L)	U	N1-C1'-C2'	5.49	121.14	114.00
1	AA	1494	G	C4-N9-C1'	5.49	133.63	126.50
33	BK	134	PRO	N-CA-C	5.49	126.37	112.10
44	BV	98	LYS	N-CA-C	-5.49	96.19	111.00
1	AA	50	A	O4'-C1'-N9	5.48	112.59	108.20
1	AA	1481	U	N3-C4-O4	-5.48	115.56	119.40
25	BA	1154	G	N9-C1'-C2'	5.48	121.13	114.00
25	BA	662	G	N9-C1'-C2'	-5.48	105.97	112.00
25	BA	1950	G	O4'-C1'-N9	5.48	112.58	108.20
41	BS	65	LYS	N-CA-C	-5.48	96.20	111.00
25	BA	1416	G	N9-C1'-C2'	5.48	121.12	114.00
5	AE	149	LEU	N-CA-C	5.47	125.78	111.00
1	AA	1029	G	N9-C1'-C2'	-5.47	105.98	112.00
44	BV	102	HIS	N-CA-C	-5.47	96.24	111.00
25	BA	515	A	C8-N9-C1'	-5.46	117.87	127.70
1	AA	1396	A	N9-C1'-C2'	5.46	121.10	114.00
25	BA	1197	G	N9-C1'-C2'	-5.46	105.99	112.00
25	BA	458	G	N9-C1'-C2'	5.46	121.10	114.00
25	BA	1693	U	N1-C1'-C2'	5.46	121.10	114.00
25	BA	1746	G	O4'-C4'-C3'	-5.46	98.54	104.00
25	BA	1757	U	N1-C1'-C2'	-5.46	106.00	112.00
25	BA	1270	C	N1-C1'-C2'	5.45	121.08	114.00
37	BO	96	THR	N-CA-C	5.45	125.72	111.00
4	A1	15	A	C4'-C3'-O3'	5.45	123.90	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	BT	76	TYR	CA-CB-CG	-5.45	103.05	113.40
25	BA	1919	A	O4'-C1'-N9	-5.44	103.84	108.20
25	BA	2314	C	N1-C1'-C2'	-5.43	106.02	112.00
53	B5	27	LYS	N-CA-C	5.43	125.67	111.00
11	AK	138	TRP	N-CA-C	-5.43	96.34	111.00
25	BA	138	G	N9-C1'-C2'	-5.43	106.03	112.00
25	BA	2713	A	C4'-C3'-O3'	-5.43	98.00	109.40
44	BV	82	LEU	N-CA-C	-5.43	96.35	111.00
8	AH	43	LEU	CA-CB-CG	5.42	127.78	115.30
25	BA	2710	C	C5'-C4'-C3'	-5.42	107.32	116.00
1	AA	47	C	C2'-C3'-O3'	5.42	122.38	113.70
25	BA	827	U	N1-C1'-C2'	5.42	121.05	114.00
1	AA	817	C	O4'-C4'-C3'	-5.42	98.58	104.00
34	BL	59	ILE	N-CA-C	-5.42	96.37	111.00
25	BA	1750	G	C5'-C4'-C3'	5.42	124.67	116.00
25	BA	2607	G	C5'-C4'-C3'	-5.42	107.33	116.00
25	BA	1568	G	N9-C1'-C2'	5.41	121.03	114.00
25	BA	2685	G	O4'-C1'-N9	5.41	112.53	108.20
35	BM	109	LYS	N-CA-C	5.41	125.60	111.00
25	BA	222	A	N9-C1'-C2'	5.41	121.03	114.00
1	AA	7	G	O4'-C1'-N9	5.40	112.52	108.20
20	AT	56	VAL	N-CA-C	-5.40	96.41	111.00
41	BS	97	ALA	N-CA-C	5.40	125.58	111.00
21	AU	80	PRO	N-CA-C	5.40	126.13	112.10
30	BF	151	SER	N-CA-C	-5.40	96.43	111.00
25	BA	2491	U	C5-C6-N1	5.39	125.40	122.70
25	BA	895	U	N1-C2-O2	5.39	126.57	122.80
25	BA	2779	U	N1-C1'-C2'	-5.39	106.07	112.00
25	BA	2665	A	C4-C5-C6	5.38	119.69	117.00
25	BA	2500	U	P-O3'-C3'	5.38	126.16	119.70
25	BA	1781	C	O4'-C4'-C3'	-5.38	98.62	104.00
26	BB	56	G	N9-C1'-C2'	5.37	120.98	114.00
1	AA	993	G	N9-C1'-C2'	5.37	120.98	114.00
25	BA	607	U	O4'-C1'-N1	-5.37	103.90	108.20
25	BA	2665	A	C6-C5-N7	-5.37	128.54	132.30
47	BY	75	ASN	N-CA-C	-5.37	96.50	111.00
25	BA	1205	U	C1'-O4'-C4'	-5.37	105.61	109.90
25	BA	1086	A	C8-N9-C1'	5.37	137.36	127.70
5	AE	51	LEU	CA-CB-CG	-5.37	102.96	115.30
25	BA	955	C	N1-C1'-C2'	-5.37	106.10	112.00
25	BA	1786	A	N9-C4-C5	-5.36	103.66	105.80
33	BK	14	ASP	N-CA-C	5.36	125.47	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	1664	A	OP2-P-O3'	5.36	116.99	105.20
25	BA	2249	U	N3-C4-O4	-5.36	115.65	119.40
25	BA	2460	U	C5'-C4'-C3'	-5.36	107.43	116.00
21	AU	44	LEU	CA-CB-CG	5.35	127.61	115.30
1	AA	1310	G	N9-C1'-C2'	-5.35	106.11	112.00
28	BD	142	VAL	CB-CA-C	-5.35	101.23	111.40
1	AA	1054	C	O4'-C1'-N1	5.35	112.48	108.20
25	BA	2579	C	C3'-C2'-C1'	-5.35	97.22	101.50
1	AA	815	A	N9-C1'-C2'	5.35	120.95	114.00
25	BA	1147	C	N1-C1'-C2'	-5.35	106.12	112.00
25	BA	866	A	N9-C1'-C2'	-5.34	106.12	112.00
40	BR	42	ASP	N-CA-C	-5.34	96.57	111.00
1	AA	1481	U	N1-C1'-C2'	5.34	120.94	114.00
25	BA	404	C	N1-C1'-C2'	5.34	120.94	114.00
25	BA	1419	A	N9-C1'-C2'	5.34	120.94	114.00
38	BP	23	GLY	N-CA-C	5.34	126.45	113.10
25	BA	746	A	O4'-C1'-N9	5.34	112.47	108.20
25	BA	2681	C	N1-C1'-C2'	5.34	120.94	114.00
25	BA	2781	A	N9-C1'-C2'	-5.33	106.13	112.00
33	BK	91	SER	N-CA-C	5.33	125.40	111.00
1	AA	48	C	C1'-O4'-C4'	-5.33	105.64	109.90
6	AF	34	LEU	CA-CB-CG	5.33	127.56	115.30
28	BD	83	GLU	N-CA-C	-5.33	96.61	111.00
38	BP	106	VAL	CB-CA-C	-5.33	101.28	111.40
29	BE	195	LEU	N-CA-C	5.32	125.38	111.00
46	BX	13	VAL	N-CA-C	5.32	125.38	111.00
1	AA	1419	G	C1'-O4'-C4'	-5.32	105.64	109.90
25	BA	95	G	N9-C1'-C2'	-5.32	106.15	112.00
25	BA	270(E)	G	O4'-C4'-C3'	-5.32	98.68	104.00
1	AA	1144	G	N9-C1'-C2'	-5.32	106.15	112.00
51	B3	47	GLN	N-CA-C	5.32	125.35	111.00
29	BE	203	LYS	N-CA-C	-5.31	96.65	111.00
3	AD	65	U	C5-C4-O4	-5.31	122.72	125.90
25	BA	1559	G	O4'-C1'-N9	-5.31	103.95	108.20
25	BA	192	C	C5'-C4'-O4'	5.31	115.47	109.10
1	AA	397	A	O4'-C1'-N9	-5.30	103.96	108.20
1	AA	961	U	C4-C5-C6	5.30	122.88	119.70
33	BK	127	VAL	N-CA-C	-5.30	96.69	111.00
25	BA	1809	A	C1'-O4'-C4'	-5.30	105.66	109.90
1	AA	793	U	C1'-O4'-C4'	-5.30	105.66	109.90
25	BA	2056	G	C8-N9-C1'	-5.29	120.12	127.00
25	BA	1626	G	C5'-C4'-O4'	5.29	115.45	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BG	132	ASN	N-CA-C	5.29	125.29	111.00
25	BA	1954	G	C1'-O4'-C4'	-5.29	105.67	109.90
25	BA	1706	U	O4'-C1'-N1	5.29	112.43	108.20
25	BA	1086	A	C4-N9-C1'	-5.29	116.79	126.30
25	BA	1302	A	O4'-C1'-N9	5.29	112.43	108.20
25	BA	459	U	C5'-C4'-C3'	5.28	124.45	116.00
47	BY	70	LEU	CA-CB-CG	5.28	127.45	115.30
30	BF	63	LYS	N-CA-C	-5.28	96.74	111.00
1	AA	652	U	N1-C1'-C2'	5.28	120.86	114.00
25	BA	2665	A	C5-C6-N1	5.28	120.34	117.70
37	BO	86	LYS	N-CA-C	5.28	125.25	111.00
30	BF	124	LEU	N-CA-C	-5.28	96.75	111.00
1	AA	226	G	C1'-O4'-C4'	-5.28	105.68	109.90
25	BA	438	G	N9-C1'-C2'	-5.28	106.20	112.00
26	BB	50	G	N9-C1'-C2'	-5.28	106.20	112.00
1	AA	216	G	N9-C1'-C2'	5.27	120.86	114.00
1	AA	367	U	N1-C1'-C2'	5.27	120.85	114.00
25	BA	2602	A	OP2-P-O3'	5.27	116.79	105.20
7	AG	33	MET	N-CA-C	-5.27	96.78	111.00
25	BA	2809	A	O4'-C1'-N9	-5.27	103.99	108.20
1	AA	823	G	N9-C1'-C2'	-5.26	106.21	112.00
25	BA	1694	C	O4'-C1'-N1	5.26	112.41	108.20
9	AI	36	ARG	N-CA-C	-5.26	96.80	111.00
41	BS	50	ILE	CG1-CB-CG2	-5.26	99.83	111.40
12	AL	102	LEU	CA-CB-CG	5.26	127.39	115.30
25	BA	270(G)	C	O4'-C4'-C3'	-5.26	98.74	104.00
25	BA	1313	U	C6-N1-C2	-5.26	117.85	121.00
36	BN	24	VAL	N-CA-C	-5.26	96.81	111.00
36	BN	67	LYS	N-CA-C	5.25	125.18	111.00
38	BP	81	VAL	N-CA-C	5.25	125.18	111.00
25	BA	568	U	O5'-P-OP1	-5.25	100.97	105.70
25	BA	1674	G	C1'-O4'-C4'	-5.25	105.70	109.90
5	AE	188	ALA	N-CA-C	5.25	125.17	111.00
1	AA	860	A	N9-C1'-C2'	-5.25	106.23	112.00
43	BU	50	PRO	CA-N-CD	-5.25	104.16	111.50
25	BA	1625	C	C3'-C2'-C1'	5.24	105.69	101.50
25	BA	119	A	N9-C1'-C2'	5.24	120.81	114.00
25	BA	2208	U	N1-C1'-C2'	5.24	120.81	114.00
25	BA	606	U	C5-C4-O4	-5.23	122.76	125.90
25	BA	534	U	C2-N1-C1'	-5.23	111.43	117.70
41	BS	76	PHE	C-N-CD	-5.23	109.10	120.60
25	BA	1956	U	C5-C4-O4	-5.22	122.77	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1077	G	N9-C1'-C2'	-5.22	106.26	112.00
25	BA	607	U	N3-C4-O4	-5.22	115.75	119.40
1	AA	390	C	N1-C1'-C2'	-5.22	106.26	112.00
17	AQ	24	CYS	CA-CB-SG	5.22	123.39	114.00
25	BA	432	A	N9-C1'-C2'	-5.22	106.26	112.00
25	BA	1312	U	C5'-C4'-O4'	-5.22	102.84	109.10
25	BA	2596	U	O4'-C4'-C3'	-5.22	98.78	104.00
28	BD	94	LEU	N-CA-C	-5.21	96.92	111.00
42	BT	60	LEU	CA-CB-CG	5.21	127.30	115.30
1	AA	633	G	C5'-C4'-C3'	-5.21	107.66	116.00
25	BA	1192	G	N9-C1'-C2'	-5.21	106.27	112.00
1	AA	721	G	N9-C1'-C2'	5.21	120.77	114.00
25	BA	1186	G	O4'-C1'-N9	-5.21	104.03	108.20
25	BA	1341	U	N1-C1'-C2'	-5.21	106.27	112.00
1	AA	1162	C	N1-C1'-C2'	-5.21	106.27	112.00
42	BT	39	LEU	CA-CB-CG	5.21	127.27	115.30
25	BA	1516	U	N1-C1'-C2'	5.21	120.77	114.00
3	AD	65	U	N1-C2-N3	-5.20	111.78	114.90
1	AA	576	G	O4'-C1'-N9	5.20	112.36	108.20
25	BA	515	A	N1-C6-N6	5.19	121.72	118.60
25	BA	1523	U	N3-C4-O4	-5.19	115.77	119.40
25	BA	2448	A	OP2-P-O3'	5.19	116.62	105.20
1	AA	1280	A	N9-C1'-C2'	5.19	120.75	114.00
25	BA	1225	C	N1-C1'-C2'	5.19	120.74	114.00
25	BA	1970	A	C1'-O4'-C4'	-5.19	105.75	109.90
3	AD	62	C	N1-C1'-C2'	-5.19	106.30	112.00
30	BF	198	ALA	N-CA-C	-5.18	97.01	111.00
25	BA	1359	A	O4'-C1'-N9	-5.18	104.06	108.20
25	BA	1755	A	N9-C1'-C2'	5.18	120.73	114.00
25	BA	2089	U	C5'-C4'-C3'	-5.18	107.72	116.00
25	BA	454	A	OP2-P-O3'	5.18	116.59	105.20
25	BA	2267	A	C5'-C4'-C3'	5.17	124.28	116.00
25	BA	797	C	N1-C1'-C2'	-5.17	106.31	112.00
56	B8	11	CYS	CA-CB-SG	5.17	123.31	114.00
3	AD	30	G	O4'-C1'-N9	5.17	112.34	108.20
25	BA	2566	A	N9-C1'-C2'	5.17	120.72	114.00
25	BA	1479	G	N9-C1'-C2'	-5.17	106.31	112.00
41	BS	45	PHE	N-CA-C	-5.17	97.05	111.00
25	BA	687	C	N3-C2-O2	-5.17	118.28	121.90
25	BA	687	C	N1-C2-O2	5.17	122.00	118.90
55	B7	33	ASN	N-CA-C	-5.17	97.05	111.00
3	AD	12	U	C2-N1-C1'	-5.16	111.50	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BE	39	PRO	N-CA-C	-5.16	98.68	112.10
25	BA	2459	A	N3-C4-N9	5.16	131.53	127.40
25	BA	860	U	N1-C2-O2	-5.16	119.19	122.80
25	BA	874	G	N9-C1'-C2'	-5.16	106.33	112.00
25	BA	1523	U	C5-C4-O4	-5.15	122.81	125.90
29	BE	192	ASN	N-CA-C	-5.15	97.09	111.00
2	AC	5	G	N9-C1'-C2'	-5.15	106.34	112.00
25	BA	639	U	N1-C1'-C2'	5.15	120.69	114.00
25	BA	196	A	O4'-C1'-N9	5.15	112.32	108.20
25	BA	265	A	N1-C6-N6	5.15	121.69	118.60
1	AA	691	G	O4'-C4'-C3'	-5.14	98.86	104.00
25	BA	627	A	C1'-O4'-C4'	-5.14	105.78	109.90
1	AA	1502	A	N9-C1'-C2'	5.14	120.68	114.00
2	AC	14	A	N9-C1'-C2'	-5.14	106.34	112.00
25	BA	607	U	C5'-C4'-O4'	5.13	115.26	109.10
25	BA	1575	C	C2-N1-C1'	-5.13	113.15	118.80
19	AS	78	GLY	N-CA-C	-5.13	100.27	113.10
25	BA	728	G	N9-C1'-C2'	5.13	120.67	114.00
25	BA	774	A	C6-N1-C2	-5.13	115.52	118.60
25	BA	889	C	N1-C1'-C2'	5.13	120.67	114.00
1	AA	974	A	C5-C6-N1	5.13	120.26	117.70
11	AK	80	ILE	N-CA-C	-5.13	97.15	111.00
51	B3	40	HIS	N-CA-C	5.12	124.84	111.00
1	AA	5	U	OP1-P-OP2	-5.12	111.92	119.60
40	BR	31	SER	N-CA-C	5.12	124.83	111.00
45	BW	23	GLU	N-CA-C	5.12	124.83	111.00
25	BA	270(F)	U	C5'-C4'-C3'	-5.12	107.80	116.00
25	BA	1774	C	O4'-C4'-C3'	-5.12	98.88	104.00
25	BA	1554	A	N9-C1'-C2'	5.12	120.66	114.00
25	BA	2190	G	N9-C1'-C2'	-5.12	106.37	112.00
25	BA	270(B)	A	C1'-O4'-C4'	-5.12	105.81	109.90
50	B2	59	VAL	N-CA-C	-5.12	97.18	111.00
1	AA	810	C	O4'-C1'-N1	5.11	112.29	108.20
22	AV	68	GLY	N-CA-C	5.11	125.89	113.10
25	BA	2185	C	O4'-C1'-N1	5.11	112.29	108.20
8	AH	123	LEU	N-CA-C	-5.11	97.20	111.00
25	BA	1823	G	O4'-C1'-N9	-5.11	104.11	108.20
1	AA	1494	G	N3-C4-C5	-5.11	126.05	128.60
25	BA	1762	A	N9-C1'-C2'	-5.11	106.38	112.00
3	AD	13	C	N1-C1'-C2'	-5.11	106.38	112.00
25	BA	777	A	O5'-P-OP1	-5.11	101.10	105.70
25	BA	1786	A	O4'-C1'-C2'	-5.11	100.69	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BA	2035	G	C2'-C3'-O3'	5.11	121.87	113.70
36	BN	3	GLN	C-N-CD	-5.11	109.37	120.60
1	AA	81	G	N9-C1'-C2'	5.10	120.64	114.00
1	AA	1528	U	C2-N1-C1'	5.10	123.82	117.70
25	BA	270(M)	U	N1-C1'-C2'	5.10	120.63	114.00
41	BS	59	THR	C-N-CA	5.10	134.45	121.70
1	AA	228	A	N9-C1'-C2'	-5.10	106.39	112.00
25	BA	1302	A	C2'-C3'-O3'	-5.09	98.30	109.50
25	BA	1668	A	O4'-C4'-C3'	-5.09	98.91	104.00
1	AA	555	C	N1-C1'-C2'	5.09	120.62	114.00
25	BA	1681	G	N9-C1'-C2'	5.09	120.62	114.00
1	AA	250	A	C2'-C3'-O3'	5.09	121.84	113.70
31	BG	1	MET	C-N-CD	5.09	139.09	128.40
43	BU	49	THR	C-N-CA	5.08	143.35	122.00
25	BA	2459	A	N3-C4-C5	-5.08	123.24	126.80
3	AD	39	U	C5-C4-O4	-5.08	122.85	125.90
1	AA	818	G	C5'-C4'-O4'	5.08	115.19	109.10
1	AA	372	C	N1-C1'-C2'	5.07	120.60	114.00
25	BA	2460	U	N1-C2-O2	5.07	126.35	122.80
44	BV	8	ARG	N-CA-C	5.07	124.70	111.00
45	BW	94	GLY	N-CA-C	-5.07	100.41	113.10
25	BA	2001	A	N9-C1'-C2'	5.07	120.59	114.00
25	BA	1610	A	C1'-O4'-C4'	-5.07	105.84	109.90
1	AA	728	A	N9-C1'-C2'	-5.07	106.42	112.00
25	BA	2728	U	N1-C1'-C2'	-5.07	106.42	112.00
55	B7	22	VAL	CB-CA-C	-5.07	101.77	111.40
3	AD	53	G	N3-C2-N2	-5.07	116.35	119.90
25	BA	643	A	O4'-C1'-N9	-5.07	104.15	108.20
25	BA	752	A	C2'-C3'-O3'	5.07	121.80	113.70
25	BA	2063	C	C6-N1-C1'	-5.07	114.72	120.80
25	BA	2448	A	C5'-C4'-C3'	-5.07	107.90	116.00
1	AA	135	C	N1-C1'-C2'	-5.06	106.43	112.00
25	BA	533	G	N9-C1'-C2'	5.06	120.58	114.00
25	BA	2491	U	N3-C2-O2	-5.06	118.66	122.20
15	AO	25	PRO	N-CA-C	-5.06	98.94	112.10
25	BA	2116	G	N9-C1'-C2'	5.06	120.58	114.00
25	BA	1647	G	N9-C1'-C2'	5.06	120.58	114.00
33	BK	11	ASN	N-CA-C	-5.06	97.34	111.00
25	BA	832	G	C5'-C4'-C3'	5.06	124.09	116.00
42	BT	118	GLY	N-CA-C	-5.06	100.46	113.10
25	BA	1666	G	C4-N9-C1'	-5.05	119.93	126.50
33	BK	144	VAL	N-CA-C	-5.05	97.37	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1231	G	N9-C1'-C2'	-5.05	106.45	112.00
25	BA	775	G	N1-C2-N2	-5.05	111.66	116.20
1	AA	13	U	C5'-C4'-C3'	-5.04	107.93	116.00
2	AC	6	G	N9-C1'-C2'	5.04	120.55	114.00
25	BA	1694	C	C1'-O4'-C4'	-5.04	105.87	109.90
36	BN	68	GLU	N-CA-C	-5.04	97.40	111.00
16	AP	11	ARG	N-CA-C	5.04	124.60	111.00
25	BA	881	G	N9-C1'-C2'	5.04	120.55	114.00
1	AA	939	G	N9-C1'-C2'	5.03	120.54	114.00
25	BA	1363	C	C3'-C2'-C1'	-5.03	97.47	101.50
25	BA	2713	A	N9-C1'-C2'	5.03	120.54	114.00
1	AA	1164	G	N9-C1'-C2'	-5.03	106.47	112.00
37	BO	72	PRO	N-CA-C	5.03	125.18	112.10
5	AE	38	GLY	N-CA-C	5.03	125.68	113.10
25	BA	1324	G	N9-C1'-C2'	5.03	120.54	114.00
25	BA	2777	G	C2'-C3'-O3'	5.03	121.75	113.70
35	BM	43	THR	N-CA-C	5.03	124.57	111.00
1	AA	734	G	N9-C1'-C2'	-5.02	106.47	112.00
1	AA	1225	A	N9-C1'-C2'	5.02	120.53	114.00
25	BA	27	G	C5'-C4'-O4'	-5.02	103.07	109.10
25	BA	2373	G	O4'-C1'-N9	5.02	112.22	108.20
30	BF	30	PRO	N-CA-C	5.02	125.16	112.10
1	AA	1533	C	N1-C1'-C2'	5.02	120.53	114.00
25	BA	1372	U	N1-C1'-C2'	-5.02	106.48	112.00
25	BA	1667	G	C4'-C3'-C2'	-5.02	97.58	102.60
25	BA	606	U	N1-C1'-C2'	5.02	120.53	114.00
25	BA	2790	A	N9-C1'-C2'	5.02	120.53	114.00
1	AA	52	G	O5'-P-OP2	-5.01	101.19	105.70
1	AA	144	G	O4'-C4'-C3'	-5.01	98.99	104.00
25	BA	1666	G	O4'-C1'-N9	5.01	112.21	108.20
25	BA	2734	A	O4'-C1'-N9	-5.01	104.19	108.20
1	AA	13	U	C5-C4-O4	-5.01	122.89	125.90
1	AA	579	G	C2'-C3'-O3'	5.01	121.72	113.70
1	AA	1408	A	O4'-C4'-C3'	-5.01	98.99	104.00
25	BA	1785	A	OP2-P-O3'	5.00	116.21	105.20
19	AS	79	VAL	N-CA-C	-5.00	97.50	111.00

There are no chirality outliers.

All (926) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	A1	14	A	Sidechain

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Mol	Chain	Res	Type	Group
4	A1	16	A	Sidechain
4	A1	18	G	Sidechain
4	A1	4	A	Sidechain
4	A1	6	G	Sidechain
1	AA	1006	C	Sidechain
1	AA	1007	C	Sidechain
1	AA	1012	U	Sidechain
1	AA	1018	C	Sidechain
1	AA	1025	U	Sidechain
1	AA	1036	G	Sidechain
1	AA	1038	C	Sidechain
1	AA	1039	C	Sidechain
1	AA	1052	U	Sidechain
1	AA	1053	G	Sidechain
1	AA	1054	C	Sidechain
1	AA	1055	A	Sidechain
1	AA	1062	U	Sidechain
1	AA	1065	U	Sidechain
1	AA	1067	A	Sidechain
1	AA	1073	U	Sidechain
1	AA	1087	G	Sidechain
1	AA	1091	U	Sidechain
1	AA	1100	C	Sidechain
1	AA	112	G	Sidechain
1	AA	1122	U	Sidechain
1	AA	1124	G	Sidechain
1	AA	1128	C	Sidechain
1	AA	1133	G	Sidechain
1	AA	1135	U	Sidechain
1	AA	1138	G	Sidechain
1	AA	114	U	Sidechain
1	AA	1143	G	Sidechain
1	AA	1150	U	Sidechain
1	AA	116	A	Sidechain
1	AA	118	U	Sidechain
1	AA	119	A	Sidechain
1	AA	1195	C	Sidechain
1	AA	1196	U	Sidechain
1	AA	1199	U	Sidechain
1	AA	12	U	Sidechain
1	AA	1201	A	Sidechain
1	AA	1203	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1205	U	Sidechain
1	AA	1207	G	Sidechain
1	AA	1208	C	Sidechain
1	AA	1232	U	Sidechain
1	AA	1235	U	Sidechain
1	AA	124	G	Sidechain
1	AA	1246	C	Sidechain
1	AA	1248	A	Sidechain
1	AA	125	U	Sidechain
1	AA	1263	C	Sidechain
1	AA	1264	C	Sidechain
1	AA	127	G	Sidechain
1	AA	1277	C	Sidechain
1	AA	1285	A	Sidechain
1	AA	129	U	Sidechain
1	AA	1302	U	Sidechain
1	AA	1318	A	Sidechain
1	AA	1330	U	Sidechain
1	AA	1341	U	Sidechain
1	AA	1344	C	Sidechain
1	AA	1347	G	Sidechain
1	AA	1348	U	Sidechain
1	AA	1354	C	Sidechain
1	AA	1377	A	Sidechain
1	AA	1393	U	Sidechain
1	AA	1396	A	Sidechain
1	AA	1406	U	Sidechain
1	AA	1408	A	Sidechain
1	AA	1411	C	Sidechain
1	AA	1419	G	Sidechain
1	AA	146	G	Sidechain
1	AA	1461	G	Sidechain
1	AA	1466	C	Sidechain
1	AA	1469	G	Sidechain
1	AA	147	G	Sidechain
1	AA	1472	U	Sidechain
1	AA	1481	U	Sidechain
1	AA	1485	U	Sidechain
1	AA	1486	G	Sidechain
1	AA	1488	G	Sidechain
1	AA	1494	G	Sidechain
1	AA	1496	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1497	G	Sidechain
1	AA	1498	U	Sidechain
1	AA	1504	G	Sidechain
1	AA	1514	C	Sidechain
1	AA	1516	G	Sidechain
1	AA	1524	C	Sidechain
1	AA	1535	C	Sidechain
1	AA	1538	C	Sidechain
1	AA	1539	C	Sidechain
1	AA	1540	U	Sidechain
1	AA	155	C	Sidechain
1	AA	158	G	Sidechain
1	AA	159	G	Sidechain
1	AA	16	A	Sidechain
1	AA	180	U	Sidechain
1	AA	186	C	Sidechain
1	AA	191(C)	G	Sidechain
1	AA	191(D)	U	Sidechain
1	AA	196	A	Sidechain
1	AA	21	G	Sidechain
1	AA	216	G	Sidechain
1	AA	219	C	Sidechain
1	AA	225	C	Sidechain
1	AA	231	G	Sidechain
1	AA	24	U	Sidechain
1	AA	253	U	Sidechain
1	AA	259	G	Sidechain
1	AA	266	G	Sidechain
1	AA	267	C	Sidechain
1	AA	27	G	Sidechain
1	AA	294	U	Sidechain
1	AA	295	C	Sidechain
1	AA	296	U	Sidechain
1	AA	31	G	Sidechain
1	AA	323	U	Sidechain
1	AA	337	C	Sidechain
1	AA	340	U	Sidechain
1	AA	347	G	Sidechain
1	AA	352	C	Sidechain
1	AA	354	G	Sidechain
1	AA	36	C	Sidechain
1	AA	361	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	367	U	Sidechain
1	AA	368	U	Sidechain
1	AA	37	U	Sidechain
1	AA	38	G	Sidechain
1	AA	383	A	Sidechain
1	AA	385	C	Sidechain
1	AA	386	C	Sidechain
1	AA	388	G	Sidechain
1	AA	390	C	Sidechain
1	AA	397	A	Sidechain
1	AA	398	C	Sidechain
1	AA	403	C	Sidechain
1	AA	405	U	Sidechain
1	AA	418	C	Sidechain
1	AA	430	A	Sidechain
1	AA	432	A	Sidechain
1	AA	434	U	Sidechain
1	AA	440	A	Sidechain
1	AA	45	U	Sidechain
1	AA	451	A	Sidechain
1	AA	452	A	Sidechain
1	AA	47	C	Sidechain
1	AA	48	C	Sidechain
1	AA	482	A	Sidechain
1	AA	49	U	Sidechain
1	AA	493	G	Sidechain
1	AA	510	A	Sidechain
1	AA	517	G	Sidechain
1	AA	522	C	Sidechain
1	AA	529	G	Sidechain
1	AA	531	U	Sidechain
1	AA	534	U	Sidechain
1	AA	54	C	Sidechain
1	AA	543	C	Sidechain
1	AA	549	C	Sidechain
1	AA	56	U	Sidechain
1	AA	560	U	Sidechain
1	AA	561	U	Sidechain
1	AA	575	G	Sidechain
1	AA	576	G	Sidechain
1	AA	579	G	Sidechain
1	AA	580	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	582	U	Sidechain
1	AA	586	C	Sidechain
1	AA	590	C	Sidechain
1	AA	591	U	Sidechain
1	AA	603	U	Sidechain
1	AA	633	G	Sidechain
1	AA	634	C	Sidechain
1	AA	644	G	Sidechain
1	AA	652	U	Sidechain
1	AA	656	C	Sidechain
1	AA	666	G	Sidechain
1	AA	672	U	Sidechain
1	AA	679	C	Sidechain
1	AA	681	C	Sidechain
1	AA	687	A	Sidechain
1	AA	689	C	Sidechain
1	AA	690	G	Sidechain
1	AA	691	G	Sidechain
1	AA	693	G	Sidechain
1	AA	7	G	Sidechain
1	AA	712	A	Sidechain
1	AA	717	C	Sidechain
1	AA	721	G	Sidechain
1	AA	724	G	Sidechain
1	AA	727	G	Sidechain
1	AA	734	G	Sidechain
1	AA	739	C	Sidechain
1	AA	741	G	Sidechain
1	AA	75	C	Sidechain
1	AA	759	A	Sidechain
1	AA	760	G	Sidechain
1	AA	771	G	Sidechain
1	AA	774	G	Sidechain
1	AA	779	C	Sidechain
1	AA	782	A	Sidechain
1	AA	783	C	Sidechain
1	AA	784	C	Sidechain
1	AA	798	G	Sidechain
1	AA	805	C	Sidechain
1	AA	81	G	Sidechain
1	AA	810	C	Sidechain
1	AA	811	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	812	C	Sidechain
1	AA	813	U	Sidechain
1	AA	815	A	Sidechain
1	AA	817	C	Sidechain
1	AA	819	A	Sidechain
1	AA	82	U	Sidechain
1	AA	820	U	Sidechain
1	AA	826	C	Sidechain
1	AA	831	U	Sidechain
1	AA	841	U	Sidechain
1	AA	853	G	Sidechain
1	AA	855	G	Sidechain
1	AA	862	C	Sidechain
1	AA	863	U	Sidechain
1	AA	87	A	Sidechain
1	AA	874	G	Sidechain
1	AA	88	C	Sidechain
1	AA	881	G	Sidechain
1	AA	884	U	Sidechain
1	AA	887	G	Sidechain
1	AA	890	G	Sidechain
1	AA	896	C	Sidechain
1	AA	901	A	Sidechain
1	AA	902	G	Sidechain
1	AA	908	A	Sidechain
1	AA	926	G	Sidechain
1	AA	927	G	Sidechain
1	AA	930	C	Sidechain
1	AA	936	C	Sidechain
1	AA	946	A	Sidechain
1	AA	961	U	Sidechain
1	AA	974	A	Sidechain
1	AA	975	A	Sidechain
1	AA	976	G	Sidechain
1	AA	998(A)	C	Sidechain
2	AC	18	G	Sidechain
2	AC	19	G	Sidechain
2	AC	24	U	Sidechain
2	AC	25	C	Sidechain
2	AC	35	A	Sidechain
2	AC	46	G	Sidechain
2	AC	47	U	Sidechain

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Mol	Chain	Res	Type	Group
2	AC	69	C	Sidechain
2	AC	71	C	Sidechain
3	AD	12	U	Sidechain
3	AD	2	C	Sidechain
3	AD	3	C	Sidechain
3	AD	31	A	Sidechain
3	AD	39	U	Sidechain
3	AD	4	G	Sidechain
3	AD	49	G	Sidechain
3	AD	61	C	Sidechain
3	AD	64	C	Sidechain
3	AD	66	C	Sidechain
3	AD	67	C	Sidechain
3	AD	72	C	Sidechain
7	AG	54	TYR	Sidechain
8	AH	60	TYR	Sidechain
11	AK	20	TYR	Sidechain
11	AK	31	PHE	Sidechain
14	AN	75	TYR	Sidechain
15	AO	120	TYR	Sidechain
20	AT	32	TYR	Sidechain
24	AX	18	TYR	Sidechain
51	B3	32	TYR	Sidechain
51	B3	43	TYR	Sidechain
52	B4	52	TYR	Sidechain
53	B5	21	TYR	Sidechain
56	B8	24	TYR	Sidechain
25	BA	10	G	Sidechain
25	BA	1012	U	Sidechain
25	BA	1024	G	Sidechain
25	BA	1026	U	Sidechain
25	BA	1028	A	Sidechain
25	BA	1040	C	Sidechain
25	BA	1043	C	Sidechain
25	BA	1051	G	Sidechain
25	BA	1052	C	Sidechain
25	BA	1053	C	Sidechain
25	BA	1060	U	Sidechain
25	BA	1063	G	Sidechain
25	BA	1064	C	Sidechain
25	BA	1080	C	Sidechain
25	BA	1082	U	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	1087	G	Sidechain
25	BA	1099	G	Sidechain
25	BA	1102	C	Sidechain
25	BA	1107	G	Sidechain
25	BA	1108	U	Sidechain
25	BA	1113	U	Sidechain
25	BA	1128	A	Sidechain
25	BA	1129	A	Sidechain
25	BA	1133	U	Sidechain
25	BA	114	U	Sidechain
25	BA	1142	U	Sidechain
25	BA	1143	A	Sidechain
25	BA	1144	G	Sidechain
25	BA	1153	C	Sidechain
25	BA	1154	G	Sidechain
25	BA	1158	C	Sidechain
25	BA	116	C	Sidechain
25	BA	1160	G	Sidechain
25	BA	1169	G	Sidechain
25	BA	1178	C	Sidechain
25	BA	118	A	Sidechain
25	BA	1183	G	Sidechain
25	BA	119	A	Sidechain
25	BA	1192	G	Sidechain
25	BA	1198	U	Sidechain
25	BA	1231	G	Sidechain
25	BA	1234	U	Sidechain
25	BA	1236	G	Sidechain
25	BA	1238	G	Sidechain
25	BA	1242	A	Sidechain
25	BA	1246	A	Sidechain
25	BA	1247	A	Sidechain
25	BA	1251	C	Sidechain
25	BA	1256	G	Sidechain
25	BA	1263	U	Sidechain
25	BA	1266	G	Sidechain
25	BA	1267	U	Sidechain
25	BA	1273	U	Sidechain
25	BA	1274	A	Sidechain
25	BA	1284	A	Sidechain
25	BA	1285	G	Sidechain
25	BA	1286	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	1299	G	Sidechain
25	BA	1301	A	Sidechain
25	BA	1302	A	Sidechain
25	BA	1304	C	Sidechain
25	BA	1305	C	Sidechain
25	BA	1310	G	Sidechain
25	BA	1312	U	Sidechain
25	BA	1324	G	Sidechain
25	BA	1326	U	Sidechain
25	BA	1327	C	Sidechain
25	BA	1330	C	Sidechain
25	BA	1340	U	Sidechain
25	BA	1343	G	Sidechain
25	BA	135	G	Sidechain
25	BA	1359	A	Sidechain
25	BA	1363	C	Sidechain
25	BA	1367	A	Sidechain
25	BA	1368	G	Sidechain
25	BA	1372	U	Sidechain
25	BA	1375	C	Sidechain
25	BA	1379	A	Sidechain
25	BA	138	G	Sidechain
25	BA	1380	G	Sidechain
25	BA	1392	A	Sidechain
25	BA	1393	A	Sidechain
25	BA	1397	U	Sidechain
25	BA	14	A	Sidechain
25	BA	141(A)	C	Sidechain
25	BA	1416	G	Sidechain
25	BA	1418	G	Sidechain
25	BA	1419	A	Sidechain
25	BA	1423	G	Sidechain
25	BA	1444(A)	A	Sidechain
25	BA	1455	G	Sidechain
25	BA	1468	C	Sidechain
25	BA	1472	A	Sidechain
25	BA	1474	C	Sidechain
25	BA	1479	G	Sidechain
25	BA	1480	G	Sidechain
25	BA	1493	C	Sidechain
25	BA	1498	C	Sidechain
25	BA	15	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	150	C	Sidechain
25	BA	1507	A	Sidechain
25	BA	1508	A	Sidechain
25	BA	151	C	Sidechain
25	BA	1513	C	Sidechain
25	BA	1515	C	Sidechain
25	BA	1516	U	Sidechain
25	BA	1523	U	Sidechain
25	BA	1524	G	Sidechain
25	BA	1525	G	Sidechain
25	BA	1528	A	Sidechain
25	BA	1532	C	Sidechain
25	BA	1539	G	Sidechain
25	BA	1541	U	Sidechain
25	BA	1542	G	Sidechain
25	BA	1549	C	Sidechain
25	BA	1554	A	Sidechain
25	BA	1559	G	Sidechain
25	BA	1564	C	Sidechain
25	BA	1568	G	Sidechain
25	BA	1576	U	Sidechain
25	BA	1602	U	Sidechain
25	BA	1604	C	Sidechain
25	BA	1609	A	Sidechain
25	BA	1612	C	Sidechain
25	BA	1613	G	Sidechain
25	BA	1617	C	Sidechain
25	BA	1622	G	Sidechain
25	BA	1623	G	Sidechain
25	BA	1625	C	Sidechain
25	BA	1627	G	Sidechain
25	BA	1628	G	Sidechain
25	BA	1630(A)	C	Sidechain
25	BA	1632	A	Sidechain
25	BA	1635	G	Sidechain
25	BA	1636	C	Sidechain
25	BA	1638	C	Sidechain
25	BA	1639	U	Sidechain
25	BA	1648	C	Sidechain
25	BA	1657	C	Sidechain
25	BA	1659	U	Sidechain
25	BA	1666	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	1667	G	Sidechain
25	BA	1671	U	Sidechain
25	BA	1676	A	Sidechain
25	BA	1681	G	Sidechain
25	BA	1685	C	Sidechain
25	BA	1688	U	Sidechain
25	BA	1691	C	Sidechain
25	BA	1699	G	Sidechain
25	BA	1703	G	Sidechain
25	BA	1710	C	Sidechain
25	BA	1712	C	Sidechain
25	BA	1716	U	Sidechain
25	BA	1718	G	Sidechain
25	BA	1726	G	Sidechain
25	BA	1727	U	Sidechain
25	BA	1735	C	Sidechain
25	BA	1742	C	Sidechain
25	BA	1747	G	Sidechain
25	BA	1752	C	Sidechain
25	BA	1755	A	Sidechain
25	BA	1757	U	Sidechain
25	BA	1764	G	Sidechain
25	BA	1765	C	Sidechain
25	BA	1770	G	Sidechain
25	BA	1774	C	Sidechain
25	BA	1775	U	Sidechain
25	BA	1776	G	Sidechain
25	BA	1777	U	Sidechain
25	BA	1778	U	Sidechain
25	BA	1781	C	Sidechain
25	BA	1783	A	Sidechain
25	BA	1786	A	Sidechain
25	BA	1787	A	Sidechain
25	BA	1790	C	Sidechain
25	BA	1798	U	Sidechain
25	BA	1800	C	Sidechain
25	BA	1804	C	Sidechain
25	BA	1807	G	Sidechain
25	BA	1809	A	Sidechain
25	BA	1810	A	Sidechain
25	BA	1817	G	Sidechain
25	BA	1819	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	1824	G	Sidechain
25	BA	1825	A	Sidechain
25	BA	1826	G	Sidechain
25	BA	1827	C	Sidechain
25	BA	1828	G	Sidechain
25	BA	1833	U	Sidechain
25	BA	1839	G	Sidechain
25	BA	1848	A	Sidechain
25	BA	1893	C	Sidechain
25	BA	1901	A	Sidechain
25	BA	1911	U	Sidechain
25	BA	1912	A	Sidechain
25	BA	1917	U	Sidechain
25	BA	1918	A	Sidechain
25	BA	1919	A	Sidechain
25	BA	192	C	Sidechain
25	BA	1923	U	Sidechain
25	BA	1927	A	Sidechain
25	BA	193	U	Sidechain
25	BA	1934	C	Sidechain
25	BA	1952	A	Sidechain
25	BA	1954	G	Sidechain
25	BA	1964	G	Sidechain
25	BA	1969	A	Sidechain
25	BA	1974	C	Sidechain
25	BA	1980	G	Sidechain
25	BA	1982	C	Sidechain
25	BA	1989	G	Sidechain
25	BA	1992	G	Sidechain
25	BA	1994	C	Sidechain
25	BA	1995	U	Sidechain
25	BA	1998	G	Sidechain
25	BA	200	U	Sidechain
25	BA	2000	G	Sidechain
25	BA	2001	A	Sidechain
25	BA	2007	C	Sidechain
25	BA	2009	G	Sidechain
25	BA	2011	U	Sidechain
25	BA	2014	A	Sidechain
25	BA	2015	A	Sidechain
25	BA	2022	U	Sidechain
25	BA	2026	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	2030	A	Sidechain
25	BA	2033	A	Sidechain
25	BA	2037	G	Sidechain
25	BA	2040	C	Sidechain
25	BA	2041	U	Sidechain
25	BA	2042	A	Sidechain
25	BA	205	G	Sidechain
25	BA	2051	A	Sidechain
25	BA	2061	G	Sidechain
25	BA	2062	A	Sidechain
25	BA	2068	U	Sidechain
25	BA	2069	G	Sidechain
25	BA	2073	C	Sidechain
25	BA	2079	U	Sidechain
25	BA	2086	U	Sidechain
25	BA	2088	G	Sidechain
25	BA	2089	U	Sidechain
25	BA	2093	G	Sidechain
25	BA	2094	G	Sidechain
25	BA	2096	U	Sidechain
25	BA	2098	U	Sidechain
25	BA	2108	C	Sidechain
25	BA	2118	U	Sidechain
25	BA	2129	C	Sidechain
25	BA	2130	U	Sidechain
25	BA	2138	C	Sidechain
25	BA	2144	U	Sidechain
25	BA	2161	C	Sidechain
25	BA	218	A	Sidechain
25	BA	2189	U	Sidechain
25	BA	2192	G	Sidechain
25	BA	2193	G	Sidechain
25	BA	2195	C	Sidechain
25	BA	2208	U	Sidechain
25	BA	2215	G	Sidechain
25	BA	2225	A	Sidechain
25	BA	2227	A	Sidechain
25	BA	2229	C	Sidechain
25	BA	223	A	Sidechain
25	BA	2231	C	Sidechain
25	BA	2232	U	Sidechain
25	BA	224	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	2246	G	Sidechain
25	BA	2247	A	Sidechain
25	BA	2252	G	Sidechain
25	BA	2263	C	Sidechain
25	BA	2272	U	Sidechain
25	BA	2276	G	Sidechain
25	BA	2282	G	Sidechain
25	BA	2287	A	Sidechain
25	BA	2288	A	Sidechain
25	BA	2293	C	Sidechain
25	BA	2295	C	Sidechain
25	BA	230	U	Sidechain
25	BA	2301	C	Sidechain
25	BA	2308	G	Sidechain
25	BA	231	C	Sidechain
25	BA	2314	C	Sidechain
25	BA	2318	G	Sidechain
25	BA	2326	C	Sidechain
25	BA	2332	U	Sidechain
25	BA	2334	G	Sidechain
25	BA	2336	A	Sidechain
25	BA	2337	G	Sidechain
25	BA	2349	G	Sidechain
25	BA	2352	A	Sidechain
25	BA	2358	G	Sidechain
25	BA	2360	A	Sidechain
25	BA	2364	C	Sidechain
25	BA	2367	G	Sidechain
25	BA	2374	C	Sidechain
25	BA	2384	G	Sidechain
25	BA	2395	C	Sidechain
25	BA	2396	G	Sidechain
25	BA	2398	U	Sidechain
25	BA	24	G	Sidechain
25	BA	2402	C	Sidechain
25	BA	2404	C	Sidechain
25	BA	2407	G	Sidechain
25	BA	2413	G	Sidechain
25	BA	2414	G	Sidechain
25	BA	2419	U	Sidechain
25	BA	2420	C	Sidechain
25	BA	2422	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	2423	U	Sidechain
25	BA	243	U	Sidechain
25	BA	2432	A	Sidechain
25	BA	2433	A	Sidechain
25	BA	2434	A	Sidechain
25	BA	2437	U	Sidechain
25	BA	2444	G	Sidechain
25	BA	2449	U	Sidechain
25	BA	2454	G	Sidechain
25	BA	2456	C	Sidechain
25	BA	2460	U	Sidechain
25	BA	2465	C	Sidechain
25	BA	2466	C	Sidechain
25	BA	2468	G	Sidechain
25	BA	247	G	Sidechain
25	BA	2476	A	Sidechain
25	BA	2480	C	Sidechain
25	BA	2481	G	Sidechain
25	BA	2486	G	Sidechain
25	BA	2491	U	Sidechain
25	BA	2493	U	Sidechain
25	BA	2497	A	Sidechain
25	BA	2499	C	Sidechain
25	BA	25	U	Sidechain
25	BA	2500	U	Sidechain
25	BA	2501	C	Sidechain
25	BA	2503	A	Sidechain
25	BA	2506	U	Sidechain
25	BA	251	A	Sidechain
25	BA	2510	C	Sidechain
25	BA	2518	A	Sidechain
25	BA	2521	C	Sidechain
25	BA	2526	G	Sidechain
25	BA	2527	C	Sidechain
25	BA	2528	U	Sidechain
25	BA	2530	A	Sidechain
25	BA	2532	G	Sidechain
25	BA	2547	U	Sidechain
25	BA	2552	U	Sidechain
25	BA	2553	G	Sidechain
25	BA	2555	U	Sidechain
25	BA	2560	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	2562	U	Sidechain
25	BA	2568	C	Sidechain
25	BA	2569	G	Sidechain
25	BA	257	A	Sidechain
25	BA	2570	G	Sidechain
25	BA	2576	G	Sidechain
25	BA	2583	G	Sidechain
25	BA	2586	C	Sidechain
25	BA	2589	A	Sidechain
25	BA	259	G	Sidechain
25	BA	2593	U	Sidechain
25	BA	2595	G	Sidechain
25	BA	2597	G	Sidechain
25	BA	2600	A	Sidechain
25	BA	2602	A	Sidechain
25	BA	2605	U	Sidechain
25	BA	2606	C	Sidechain
25	BA	2607	G	Sidechain
25	BA	2608	G	Sidechain
25	BA	2609	U	Sidechain
25	BA	2612	C	Sidechain
25	BA	2613	U	Sidechain
25	BA	2614	A	Sidechain
25	BA	2615	U	Sidechain
25	BA	2619	C	Sidechain
25	BA	2629	A	Sidechain
25	BA	2630	G	Sidechain
25	BA	2633	G	Sidechain
25	BA	2636	U	Sidechain
25	BA	2637	U	Sidechain
25	BA	2645	G	Sidechain
25	BA	2647	U	Sidechain
25	BA	2649	U	Sidechain
25	BA	2651	C	Sidechain
25	BA	2652	C	Sidechain
25	BA	2656	U	Sidechain
25	BA	2657	A	Sidechain
25	BA	2665	A	Sidechain
25	BA	267	C	Sidechain
25	BA	268	C	Sidechain
25	BA	2686	G	Sidechain
25	BA	2687	U	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	2688	U	Sidechain
25	BA	2689	U	Sidechain
25	BA	2691	C	Sidechain
25	BA	2696	U	Sidechain
25	BA	270	A	Sidechain
25	BA	270(B)	A	Sidechain
25	BA	270(C)	C	Sidechain
25	BA	270(G)	C	Sidechain
25	BA	270(M)	U	Sidechain
25	BA	270(P)	C	Sidechain
25	BA	270(Q)	C	Sidechain
25	BA	270(U)	C	Sidechain
25	BA	2702	U	Sidechain
25	BA	2706	G	Sidechain
25	BA	2708	G	Sidechain
25	BA	2710	C	Sidechain
25	BA	2712	U	Sidechain
25	BA	2725	A	Sidechain
25	BA	2726	U	Sidechain
25	BA	273(A)	G	Sidechain
25	BA	273(C)	C	Sidechain
25	BA	273(D)	C	Sidechain
25	BA	273(E)	U	Sidechain
25	BA	2734	A	Sidechain
25	BA	2741	A	Sidechain
25	BA	2746	U	Sidechain
25	BA	2758	A	Sidechain
25	BA	2773	C	Sidechain
25	BA	2778	A	Sidechain
25	BA	2781	A	Sidechain
25	BA	2782	G	Sidechain
25	BA	2787	C	Sidechain
25	BA	2791	C	Sidechain
25	BA	28	A	Sidechain
25	BA	280	C	Sidechain
25	BA	2804	C	Sidechain
25	BA	2808	U	Sidechain
25	BA	282	A	Sidechain
25	BA	2825	C	Sidechain
25	BA	2826	A	Sidechain
25	BA	283	A	Sidechain
25	BA	284	U	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	2845	G	Sidechain
25	BA	2849	U	Sidechain
25	BA	2853	C	Sidechain
25	BA	2857	G	Sidechain
25	BA	2865	U	Sidechain
25	BA	2868	A	Sidechain
25	BA	2871	C	Sidechain
25	BA	2876	G	Sidechain
25	BA	2884	U	Sidechain
25	BA	2885	C	Sidechain
25	BA	2887	U	Sidechain
25	BA	2894	G	Sidechain
25	BA	2898	U	Sidechain
25	BA	290	G	Sidechain
25	BA	296	C	Sidechain
25	BA	3	U	Sidechain
25	BA	32	C	Sidechain
25	BA	320	A	Sidechain
25	BA	33	U	Sidechain
25	BA	337	C	Sidechain
25	BA	35	G	Sidechain
25	BA	350	U	Sidechain
25	BA	351	G	Sidechain
25	BA	358	U	Sidechain
25	BA	360	G	Sidechain
25	BA	362	U	Sidechain
25	BA	363(E)	U	Sidechain
25	BA	366	C	Sidechain
25	BA	374	A	Sidechain
25	BA	378	C	Sidechain
25	BA	380	U	Sidechain
25	BA	384	U	Sidechain
25	BA	385	C	Sidechain
25	BA	386	G	Sidechain
25	BA	387	U	Sidechain
25	BA	39	C	Sidechain
25	BA	397	G	Sidechain
25	BA	400	G	Sidechain
25	BA	406	G	Sidechain
25	BA	407	G	Sidechain
25	BA	411	G	Sidechain
25	BA	420	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	426	C	Sidechain
25	BA	427	U	Sidechain
25	BA	445	C	Sidechain
25	BA	452	G	Sidechain
25	BA	455	C	Sidechain
25	BA	458	G	Sidechain
25	BA	459	U	Sidechain
25	BA	468	G	Sidechain
25	BA	474	G	Sidechain
25	BA	476	G	Sidechain
25	BA	485	C	Sidechain
25	BA	488	G	Sidechain
25	BA	497	A	Sidechain
25	BA	505	A	Sidechain
25	BA	511	U	Sidechain
25	BA	512	G	Sidechain
25	BA	513	A	Sidechain
25	BA	516	C	Sidechain
25	BA	524	U	Sidechain
25	BA	525	U	Sidechain
25	BA	528	A	Sidechain
25	BA	530	G	Sidechain
25	BA	532	A	Sidechain
25	BA	539	G	Sidechain
25	BA	553	U	Sidechain
25	BA	557	U	Sidechain
25	BA	560	C	Sidechain
25	BA	563	G	Sidechain
25	BA	566	U	Sidechain
25	BA	572	A	Sidechain
25	BA	580	C	Sidechain
25	BA	582	G	Sidechain
25	BA	583	G	Sidechain
25	BA	584	C	Sidechain
25	BA	585	G	Sidechain
25	BA	60	G	Sidechain
25	BA	605	C	Sidechain
25	BA	606	U	Sidechain
25	BA	607	U	Sidechain
25	BA	610	C	Sidechain
25	BA	611	C	Sidechain
25	BA	612	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	614	U	Sidechain
25	BA	618(A)	C	Sidechain
25	BA	621	A	Sidechain
25	BA	624	C	Sidechain
25	BA	639	U	Sidechain
25	BA	64	A	Sidechain
25	BA	643	A	Sidechain
25	BA	647	G	Sidechain
25	BA	650	C	Sidechain
25	BA	658	C	Sidechain
25	BA	67	U	Sidechain
25	BA	673	C	Sidechain
25	BA	674	G	Sidechain
25	BA	682	G	Sidechain
25	BA	685	A	Sidechain
25	BA	686	G	Sidechain
25	BA	689	A	Sidechain
25	BA	697	C	Sidechain
25	BA	698	C	Sidechain
25	BA	703	U	Sidechain
25	BA	709	U	Sidechain
25	BA	712	G	Sidechain
25	BA	715	G	Sidechain
25	BA	717	G	Sidechain
25	BA	724	U	Sidechain
25	BA	729	G	Sidechain
25	BA	730	C	Sidechain
25	BA	739	G	Sidechain
25	BA	740	U	Sidechain
25	BA	746	A	Sidechain
25	BA	753	C	Sidechain
25	BA	758	C	Sidechain
25	BA	760	G	Sidechain
25	BA	764	A	Sidechain
25	BA	768	G	Sidechain
25	BA	774	A	Sidechain
25	BA	775	G	Sidechain
25	BA	777	A	Sidechain
25	BA	779	U	Sidechain
25	BA	783	A	Sidechain
25	BA	789	A	Sidechain
25	BA	791	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	792	G	Sidechain
25	BA	794	G	Sidechain
25	BA	800	A	Sidechain
25	BA	801	G	Sidechain
25	BA	805	G	Sidechain
25	BA	820	A	Sidechain
25	BA	825	C	Sidechain
25	BA	829	A	Sidechain
25	BA	83	G	Sidechain
25	BA	830	G	Sidechain
25	BA	833	U	Sidechain
25	BA	843	G	Sidechain
25	BA	845	G	Sidechain
25	BA	847	U	Sidechain
25	BA	848	G	Sidechain
25	BA	854	G	Sidechain
25	BA	857	C	Sidechain
25	BA	860	U	Sidechain
25	BA	864	G	Sidechain
25	BA	865	C	Sidechain
25	BA	871	U	Sidechain
25	BA	879	G	Sidechain
25	BA	898	C	Sidechain
25	BA	9	U	Sidechain
25	BA	907	U	Sidechain
25	BA	913	U	Sidechain
25	BA	920	G	Sidechain
25	BA	922	U	Sidechain
25	BA	924	C	Sidechain
25	BA	932	G	Sidechain
25	BA	933	A	Sidechain
25	BA	937	U	Sidechain
25	BA	942	G	Sidechain
25	BA	946	G	Sidechain
25	BA	955	C	Sidechain
25	BA	956	G	Sidechain
25	BA	957	A	Sidechain
25	BA	959	A	Sidechain
25	BA	960	A	Sidechain
25	BA	967	C	Sidechain
25	BA	968	G	Sidechain
25	BA	970	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	976	C	Sidechain
25	BA	977	G	Sidechain
25	BA	978	G	Sidechain
25	BA	986	C	Sidechain
25	BA	987	G	Sidechain
25	BA	989	G	Sidechain
25	BA	99	U	Sidechain
26	BB	1	U	Sidechain
26	BB	10	C	Sidechain
26	BB	105	G	Sidechain
26	BB	12	C	Sidechain
26	BB	25	A	Sidechain
26	BB	38	C	Sidechain
26	BB	41	U	Sidechain
26	BB	44	G	Sidechain
26	BB	49	C	Sidechain
26	BB	55	U	Sidechain
26	BB	60	C	Sidechain
26	BB	68	C	Sidechain
26	BB	71	C	Sidechain
26	BB	75	G	Sidechain
26	BB	8	U	Sidechain
26	BB	89	G	Sidechain
26	BB	90	C	Sidechain
26	BB	93	C	Sidechain
26	BB	94	C	Sidechain
26	BB	98	G	Sidechain
28	BD	172	TYR	Sidechain
30	BF	20	LEU	Mainchain
32	BH	157	TYR	Sidechain
32	BH	164	TYR	Sidechain
32	BH	94	TYR	Sidechain
36	BN	32	TYR	Sidechain
36	BN	7	TYR	Sidechain
38	BP	26	TYR	Sidechain
38	BP	74	TYR	Sidechain
38	BP	93	TYR	Sidechain
41	BS	14	TYR	Sidechain
41	BS	32	TYR	Sidechain
42	BT	76	TYR	Sidechain
43	BU	75	PHE	Sidechain
43	BU	91	TYR	Sidechain

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Mol	Chain	Res	Type	Group
44	BV	45	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	32554	0	16429	6699	0
2	AC	1624	0	826	331	0
3	AD	1623	0	809	304	0
4	A1	596	0	296	65	0
5	AE	1900	0	1951	928	0
6	AF	1612	0	1677	661	0
7	AG	1703	0	1763	807	0
8	AH	1146	0	1207	482	0
9	AI	843	0	857	397	0
10	AJ	1257	0	1296	519	0
11	AK	1116	0	1177	666	0
12	AL	1010	0	1037	457	0
13	AM	794	0	840	327	0
14	AN	885	0	904	410	0
15	AO	970	0	1057	413	0
16	AP	997	0	1072	469	0
17	AQ	492	0	529	264	0
18	AR	734	0	771	353	0
19	AS	700	0	720	348	0
20	AT	857	0	930	385	0
21	AU	597	0	668	357	0
22	AV	647	0	673	241	0
23	AW	763	0	861	330	0
24	AX	208	0	221	87	0
25	BA	62218	0	31354	15682	0
26	BB	2641	0	1337	598	0
27	BC	1742	0	1796	761	0
28	BD	2124	0	2207	1434	0
29	BE	1578	0	1647	1120	0
30	BF	1625	0	1666	862	0
31	BG	1482	0	1546	838	0
32	BH	1328	0	1408	664	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
33	BK	1155	0	1244	574	0
34	BL	1025	0	1074	414	0
35	BM	1113	0	1183	722	0
36	BN	932	0	994	703	0
37	BO	1106	0	1183	801	0
38	BP	1080	0	1127	691	0
39	BQ	960	0	1021	505	0
40	BR	877	0	938	472	0
41	BS	976	0	1033	699	0
42	BT	964	0	1022	709	0
43	BU	779	0	852	626	0
44	BV	876	0	941	423	0
45	BW	742	0	800	336	0
46	BX	844	0	930	493	0
47	BY	1435	0	1463	683	0
48	BZ	670	0	700	365	0
49	B1	567	0	621	303	0
50	B2	469	0	518	302	0
51	B3	581	0	577	375	0
52	B4	445	0	459	271	0
53	B5	426	0	452	306	0
54	B6	430	0	480	275	0
55	B7	515	0	587	415	0
56	B8	307	0	335	126	0
All	All	149640	0	102066	45475	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 181.

All (45475) 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)
25:BA:1204:A:C2	30:BF:188:ARG:HA	1.17	1.61
25:BA:2459:A:N3	25:BA:2460:U:H1'	1.22	1.46
25:BA:1204:A:C2	30:BF:188:ARG:CA	1.98	1.45
25:BA:2745:C:N4	25:BA:2756:U:C5	1.85	1.45
25:BA:1475:G:H1	25:BA:1477:A:N6	1.11	1.44
25:BA:775:G:H2'	25:BA:794:G:N7	1.28	1.43
25:BA:2756:U:C4	25:BA:2759:G:O6	1.73	1.42
25:BA:2745:C:N4	25:BA:2756:U:C4	1.86	1.39
35:BM:89:LYS:HE2	35:BM:89:LYS:N	1.31	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1542:G:H1'	25:BA:1543:A:C6	1.60	1.37
25:BA:2596:U:H2'	28:BD:242:ARG:CZ	1.53	1.36
39:BQ:105:ARG:HA	39:BQ:105:ARG:CZ	1.53	1.36
25:BA:1469:A:N6	25:BA:1470:G:H21	1.19	1.36
25:BA:1469:A:H62	25:BA:1470:G:N2	1.22	1.33
25:BA:477:A:H2'	25:BA:478:A:C8	1.64	1.32
55:B7:30:ARG:CZ	55:B7:44:LYS:HB2	1.57	1.31
1:AA:582:U:H5'	18:AR:64:ARG:NH2	1.46	1.31
25:BA:2553:G:N2	25:BA:2554:U:H1'	1.04	1.31
25:BA:2553:G:N2	25:BA:2554:U:C1'	1.94	1.31
25:BA:371:A:H5''	25:BA:423:A:N7	1.46	1.30
41:BS:64:ARG:HD3	41:BS:65:LYS:N	1.47	1.30
25:BA:2756:U:N3	25:BA:2759:G:O6	1.62	1.30
29:BE:133:LYS:HB3	29:BE:137:HIS:NE2	1.44	1.30
30:BF:19:GLU:O	30:BF:20:LEU:HD23	1.16	1.30
1:AA:37:U:O4	1:AA:397:A:N1	1.59	1.30
25:BA:612:G:H4'	25:BA:616:A:N6	1.41	1.30
42:BT:50:ARG:NH1	42:BT:50:ARG:HB2	1.46	1.29
29:BE:92:THR:HA	29:BE:95:ILE:CB	1.63	1.29
28:BD:8:PRO:O	28:BD:25:THR:HA	1.31	1.29
25:BA:2491:U:C6	25:BA:2491:U:H3'	1.66	1.28
25:BA:388:G:H2'	25:BA:390:A:N7	1.47	1.28
30:BF:6:VAL:HA	30:BF:20:LEU:CD2	1.63	1.28
33:BK:87:LYS:HA	33:BK:121:LYS:O	1.34	1.28
25:BA:1510:A:H2'	25:BA:1511:A:C2	1.67	1.28
25:BA:1668:A:N1	25:BA:1993:U:H1'	1.47	1.27
25:BA:1775:U:H1'	28:BD:208:LYS:NZ	1.47	1.27
25:BA:470:A:C2	25:BA:471:A:H1'	1.67	1.27
25:BA:714:U:H2'	25:BA:715:G:N7	1.46	1.27
30:BF:19:GLU:C	30:BF:20:LEU:HD23	1.51	1.27
5:AE:82:ARG:HD2	5:AE:92:TYR:OH	1.34	1.27
25:BA:2213:U:H5'	25:BA:2215:G:N7	1.48	1.27
53:B5:36:LEU:O	53:B5:51:GLU:HB3	1.27	1.26
25:BA:763:G:H5'	28:BD:211:ARG:NH1	1.49	1.26
25:BA:2681:C:O2'	25:BA:2682:U:H5'	1.35	1.26
25:BA:950:G:H2'	25:BA:951:C:C6	1.71	1.26
25:BA:2523:G:H1'	25:BA:2765:A:N7	1.47	1.26
29:BE:92:THR:CA	29:BE:95:ILE:HB	1.63	1.26
25:BA:2755:C:H4'	25:BA:2756:U:C5	1.71	1.25
25:BA:1813:G:H2'	28:BD:52:ARG:NH1	1.50	1.25
39:BQ:13:HIS:HB3	39:BQ:16:HIS:CD2	1.68	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:68:GLU:HB3	36:BN:76:ALA:O	1.27	1.25
25:BA:2512:C:H5''	29:BE:120:TRP:CH2	1.72	1.25
25:BA:740:U:H5'	25:BA:1784:A:OP1	1.38	1.24
25:BA:728:G:N1	25:BA:762:U:H3'	1.52	1.24
41:BS:64:ARG:HA	41:BS:64:ARG:NH1	1.51	1.24
25:BA:1201:C:N4	25:BA:1241:A:H61	1.33	1.24
1:AA:123:C:O2'	1:AA:290:C:H1'	1.32	1.24
1:AA:901:A:C2	1:AA:902:G:H1'	1.72	1.24
25:BA:957:A:N1	25:BA:2459:A:H5''	1.50	1.24
53:B5:19:ARG:NH1	53:B5:41:PRO:HG3	1.53	1.23
41:BS:30:VAL:HG22	41:BS:32:TYR:CE2	1.72	1.23
25:BA:1202:C:O3'	25:BA:1203:G:P	1.97	1.23
25:BA:2598:A:OP1	28:BD:234:GLY:HA3	1.34	1.23
51:B3:43:TYR:HA	51:B3:61:ARG:NH2	1.51	1.23
42:BT:65:ILE:HB	42:BT:76:TYR:OH	1.38	1.23
25:BA:911:A:C8	25:BA:2264:C:H1'	1.71	1.23
30:BF:19:GLU:O	30:BF:20:LEU:CD2	1.85	1.23
25:BA:2064:C:H1'	25:BA:2450:A:N6	1.50	1.22
1:AA:559:A:H4'	1:AA:560:U:C5'	1.69	1.22
25:BA:2723:C:O2'	39:BQ:2:ARG:HA	1.36	1.21
25:BA:265:A:H2'	25:BA:266:G:O4'	1.39	1.21
53:B5:20:ASN:ND2	53:B5:41:PRO:HB2	1.53	1.21
25:BA:2219:G:H21	28:BD:262:ARG:NH2	1.37	1.21
35:BM:6:PRO:HA	35:BM:41:ASP:CB	1.70	1.21
25:BA:2745:C:N4	25:BA:2756:U:O4	1.66	1.20
25:BA:1566:A:N1	28:BD:215:LEU:HD13	1.56	1.20
35:BM:127:ASP:N	35:BM:129:PRO:HD2	1.56	1.20
38:BP:51:ARG:NH1	38:BP:51:ARG:HB2	1.56	1.20
25:BA:783:A:H5''	25:BA:2589:A:OP1	1.37	1.20
25:BA:1263:U:H4'	52:B4:10:LYS:HG3	1.22	1.20
30:BF:18:ARG:O	30:BF:19:GLU:HG3	1.42	1.20
38:BP:16:ARG:CZ	38:BP:73:PRO:HD3	1.71	1.20
25:BA:2581:G:N1	25:BA:2610:C:H2'	1.56	1.20
5:AE:88:ALA:HB2	5:AE:219:VAL:HG13	1.20	1.20
28:BD:84:TYR:CD1	28:BD:91:ARG:HD2	1.77	1.20
21:AU:49:LYS:H	21:AU:49:LYS:HD2	1.07	1.20
1:AA:263:A:C2'	1:AA:264:U:H5''	1.71	1.19
25:BA:1203:G:O6	25:BA:1241:A:N3	1.75	1.19
25:BA:2491:U:C6	25:BA:2492:U:H5'	1.77	1.19
27:BC:62:VAL:HB	27:BC:195:ALA:CB	1.72	1.19
29:BE:11:MET:O	29:BE:22:PRO:HD2	1.43	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2748:A:N3	32:BH:67:LEU:HD21	1.57	1.19
25:BA:1471:A:H62	25:BA:1519:G:N2	1.41	1.19
33:BK:4:ILE:O	33:BK:36:ALA:HB1	1.39	1.19
25:BA:323:G:H2'	30:BF:170:LEU:HB2	1.20	1.19
25:BA:2447:G:C8	25:BA:2500:U:H3'	1.76	1.19
38:BP:27:VAL:HG23	38:BP:138:ASP:OD2	1.02	1.19
25:BA:179:G:H5'	54:B6:32:LYS:NZ	1.58	1.19
25:BA:1203:G:O6	25:BA:1240:U:C2	1.93	1.19
1:AA:1375:A:H2'	1:AA:1376:U:C6	1.77	1.19
25:BA:828:U:H2'	25:BA:829:A:C8	1.77	1.19
43:BU:20:LEU:HD13	43:BU:68:LYS:NZ	1.56	1.19
41:BS:32:TYR:O	41:BS:47:GLY:HA2	1.37	1.18
1:AA:371:G:O2'	1:AA:372:C:H5'	1.40	1.18
10:AJ:99:LEU:O	10:AJ:103:TRP:HB2	1.40	1.18
14:AN:61:ALA:HB1	14:AN:94:ALA:HB2	1.24	1.18
36:BN:21:CYS:HA	36:BN:41:ALA:HB2	1.26	1.18
38:BP:14:ARG:HE	38:BP:14:ARG:HA	1.06	1.18
25:BA:1954:G:N2	25:BA:1956:U:H1'	1.59	1.18
1:AA:173:U:C1'	1:AA:197:A:N3	2.05	1.18
25:BA:2848:G:H22	25:BA:2867:G:H1'	1.07	1.18
28:BD:256:GLY:O	28:BD:257:LEU:HG	1.44	1.18
25:BA:2309:A:H5''	25:BA:2310:A:N7	1.59	1.18
25:BA:1255:U:C5'	25:BA:1256:G:H5''	1.71	1.18
45:BW:89:ILE:HG23	45:BW:92:LEU:HD22	1.24	1.18
47:BY:157:LEU:HD23	47:BY:158:PRO:HD2	1.25	1.18
35:BM:100:GLU:O	35:BM:103:VAL:HG22	1.42	1.18
37:BO:64:LYS:HE2	37:BO:64:LYS:H	1.01	1.18
40:BR:89:ARG:HG3	40:BR:90:GLY:H	1.05	1.18
34:BL:57:ILE:HA	34:BL:66:THR:O	1.40	1.18
25:BA:1995:U:H5	25:BA:1996:C:C5	1.61	1.17
41:BS:30:VAL:HG23	41:BS:89:VAL:O	1.41	1.17
25:BA:1023:U:H2'	25:BA:1024:G:H5'	1.27	1.17
25:BA:2093:G:H4'	33:BK:25:TYR:HA	1.21	1.17
9:AI:100:ASN:HD22	21:AU:23:LYS:HG2	1.09	1.17
48:BZ:50:ASN:O	48:BZ:62:LEU:HB3	1.44	1.17
1:AA:961:U:O2'	1:AA:962:C:H5'	1.43	1.17
25:BA:1488:G:H2'	25:BA:1489:U:H5'	1.25	1.17
46:BX:28:LYS:HE2	46:BX:28:LYS:H	1.04	1.17
6:AF:14:ILE:HG21	6:AF:179:ARG:HA	1.22	1.17
29:BE:52:LEU:HA	29:BE:74:PRO:HA	1.27	1.17
32:BH:121:ILE:HA	32:BH:134:SER:O	1.44	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:11:PRO:HB2	35:BM:13:TRP:HZ3	1.06	1.17
1:AA:263:A:H2'	1:AA:264:U:H5''	1.22	1.17
1:AA:22:G:H4'	1:AA:885:G:C8	1.80	1.17
36:BN:68:GLU:OE2	36:BN:76:ALA:HB3	1.43	1.17
6:AF:47:LEU:HD11	6:AF:83:ARG:NH2	1.60	1.17
50:B2:3:ARG:NH1	50:B2:3:ARG:HB3	1.57	1.17
30:BF:131:GLY:HA2	30:BF:138:GLU:HB2	1.20	1.17
25:BA:1270:C:H1'	25:BA:1325:G:N7	1.56	1.17
25:BA:1475:G:N1	25:BA:1477:A:N6	1.93	1.17
25:BA:1943:U:H4'	25:BA:1944:U:O5'	1.37	1.17
39:BQ:88:ARG:HB2	39:BQ:88:ARG:HH11	1.01	1.17
43:BU:5:VAL:HG11	43:BU:37:VAL:HG13	1.21	1.17
8:AH:82:VAL:HB	8:AH:138:ALA:HB2	1.24	1.16
36:BN:106:LEU:HB2	41:BS:39:ARG:NH2	1.59	1.16
37:BO:46:LYS:HB3	37:BO:49:ARG:CZ	1.76	1.16
5:AE:56:ARG:NH1	5:AE:56:ARG:HB3	1.59	1.16
25:BA:2306:C:N3	31:BG:46:ALA:HB2	1.60	1.16
13:AM:79:ARG:HH12	13:AM:82:ILE:HD12	1.02	1.16
20:AT:78:GLU:HG2	20:AT:81:ARG:HB2	1.21	1.16
35:BM:67:LEU:HA	35:BM:70:LYS:HZ3	1.01	1.16
14:AN:110:ASP:HA	21:AU:88:LYS:HD2	1.23	1.16
25:BA:1513:C:H2'	25:BA:1514:U:H5	1.08	1.16
1:AA:946:A:H2'	1:AA:947:G:C8	1.80	1.16
14:AN:32:ILE:HG22	14:AN:40:ILE:HD11	1.27	1.16
42:BT:99:ALA:HA	42:BT:106:PHE:HB2	1.26	1.16
42:BT:89:GLU:HG2	43:BU:52:VAL:HG23	1.21	1.16
33:BK:125:GLU:HB3	33:BK:143:SER:CA	1.74	1.16
25:BA:1069:A:H4'	25:BA:1070:A:C5'	1.76	1.16
25:BA:343:C:C2'	25:BA:344:G:H5'	1.76	1.16
36:BN:23:ARG:HB2	36:BN:23:ARG:HH11	1.07	1.16
54:B6:21:ARG:HH11	54:B6:21:ARG:HB2	1.05	1.15
25:BA:966:G:H1'	25:BA:2267:A:N6	1.59	1.15
28:BD:7:LYS:HG2	28:BD:25:THR:HG22	1.20	1.15
11:AK:36:LEU:HD11	11:AK:59:LEU:HD22	1.27	1.15
25:BA:614:U:H3'	25:BA:615:G:H4'	1.15	1.15
33:BK:4:ILE:HA	33:BK:18:VAL:HG22	1.23	1.15
1:AA:173:U:O4'	1:AA:197:A:N3	1.77	1.15
40:BR:63:THR:O	40:BR:66:ALA:HB3	1.46	1.15
47:BY:24:LEU:O	47:BY:39:VAL:HB	1.43	1.15
25:BA:1992:G:H1	25:BA:1996:C:N4	1.43	1.15
35:BM:7:LYS:HE3	35:BM:8:GLN:N	1.60	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:105:GLU:O	36:BN:111:PHE:HZ	1.28	1.15
25:BA:2332:U:H4'	25:BA:2336:A:H62	1.09	1.15
35:BM:88:GLU:HB2	35:BM:89:LYS:HZ3	0.99	1.15
48:BZ:70:GLN:HG2	48:BZ:72:ARG:HG2	1.28	1.15
37:BO:23:PRO:HG3	37:BO:30:THR:HG23	1.24	1.15
38:BP:23:GLY:HA3	38:BP:101:ARG:HH21	1.03	1.15
41:BS:33:LYS:HA	41:BS:46:GLU:O	1.44	1.15
7:AG:12:CYS:CA	7:AG:19:LEU:HB2	1.77	1.15
25:BA:1203:G:N7	25:BA:1240:U:C4	2.15	1.15
25:BA:270(C):C:H2'	25:BA:270(D):C:H6	1.05	1.15
34:BL:10:LEU:HD21	34:BL:57:ILE:HG12	1.29	1.15
43:BU:67:GLY:HA2	43:BU:93:GLU:O	1.44	1.15
7:AG:20:TYR:HB2	7:AG:27:TYR:HA	1.16	1.14
27:BC:214:VAL:HG23	27:BC:224:ILE:HD13	1.29	1.14
25:BA:2484:G:H1'	38:BP:124:LYS:HD3	1.28	1.14
42:BT:102:GLU:HB3	42:BT:105:VAL:HB	1.23	1.14
20:AT:91:ARG:HA	20:AT:94:ASN:HD22	1.04	1.14
36:BN:7:TYR:HA	36:BN:18:LYS:HE3	1.25	1.14
34:BL:105:LEU:HD22	34:BL:124:ALA:HB1	1.20	1.14
1:AA:1443:G:H4'	1:AA:1446:A:H5'	1.26	1.14
5:AE:15:VAL:CG2	5:AE:209:ARG:HD2	1.76	1.14
25:BA:2472:G:N2	25:BA:2529:G:H1	1.45	1.14
44:BV:64:MET:HG2	44:BV:109:GLU:HG3	1.29	1.14
48:BZ:21:LEU:HG	48:BZ:39:ARG:O	1.44	1.14
25:BA:1491:G:O4'	28:BD:99:ASP:HB2	1.48	1.14
25:BA:1775:U:H3'	25:BA:1775:U:C6	1.81	1.14
32:BH:38:SER:H	32:BH:41:MET:HE2	1.08	1.14
35:BM:7:LYS:HE2	35:BM:39:ARG:HH22	1.06	1.14
1:AA:1245:A:H2'	1:AA:1246:C:C6	1.81	1.14
25:BA:2848:G:H2'	41:BS:99:LEU:HD21	1.21	1.14
30:BF:41:LEU:HA	30:BF:44:ARG:NE	1.62	1.14
38:BP:137:TYR:O	38:BP:138:ASP:CG	1.84	1.14
25:BA:2461:C:H1'	25:BA:2492:U:C5	1.81	1.14
25:BA:2637:U:C5'	29:BE:81:ILE:HD11	1.78	1.14
25:BA:637:A:H2	25:BA:651:G:H5''	1.08	1.14
40:BR:11:LYS:HG3	40:BR:14:VAL:HG11	1.26	1.14
40:BR:37:ALA:O	40:BR:51:ALA:HB2	1.42	1.14
43:BU:19:LYS:HB3	43:BU:21:ARG:HH12	1.09	1.14
25:BA:2573:C:OP1	25:BA:2574:G:H5''	1.45	1.14
29:BE:106:GLY:HA3	29:BE:196:VAL:HG22	1.25	1.14
31:BG:110:ALA:HB1	31:BG:139:LEU:HD21	1.30	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:33:LEU:HD13	32:BH:75:ALA:HA	1.14	1.14
25:BA:1475:G:H21	25:BA:1476:C:H5'	1.10	1.14
25:BA:1971:A:H8	25:BA:1971:A:H3'	1.13	1.14
25:BA:2658:C:H2'	25:BA:2659:G:H5'	1.15	1.14
46:BX:50:ARG:HB2	46:BX:54:LYS:HD3	1.21	1.14
51:B3:18:CYS:HB3	51:B3:33:VAL:HG21	1.30	1.14
25:BA:1969:A:H4'	25:BA:1970:A:H5'	1.26	1.14
47:BY:7:ALA:HB3	47:BY:36:LYS:O	1.45	1.14
16:AP:16:ASP:HA	16:AP:19:LEU:HG	1.14	1.14
25:BA:2468:G:H2'	25:BA:2476:A:C2	1.82	1.14
25:BA:637:A:C2	25:BA:651:G:H4'	1.81	1.14
30:BF:5:ALA:C	30:BF:20:LEU:HD13	1.67	1.14
47:BY:10:ARG:HD3	47:BY:36:LYS:HD2	1.27	1.14
20:AT:18:THR:HG23	20:AT:43:LEU:HD11	1.28	1.13
25:BA:712:G:H2'	25:BA:713:G:C8	1.81	1.13
37:BO:114:ILE:HD12	37:BO:123:LEU:HD12	1.30	1.13
8:AH:102:ALA:HB2	8:AH:120:THR:HG22	1.16	1.13
25:BA:861:A:H2'	25:BA:862:G:H5'	1.22	1.13
28:BD:70:TRP:HA	28:BD:73:VAL:HG13	1.20	1.13
25:BA:1665:A:H4'	36:BN:1:MET:H1	1.05	1.13
37:BO:114:ILE:HD13	37:BO:129:ALA:O	1.49	1.13
1:AA:1277:C:H4'	1:AA:1282:C:H1'	1.30	1.13
1:AA:453:A:N6	1:AA:480:U:H3	1.45	1.13
51:B3:5:ILE:HG23	51:B3:57:GLU:HB2	1.19	1.13
52:B4:9:LYS:HE2	52:B4:10:LYS:N	1.62	1.13
25:BA:1966:A:H1'	25:BA:2593:U:H5'	1.19	1.13
43:BU:28:GLU:HB3	43:BU:94:LEU:HD12	1.17	1.13
47:BY:119:GLU:O	47:BY:172:ALA:HB1	1.45	1.13
15:AO:43:VAL:HG23	15:AO:55:VAL:HG21	1.31	1.13
28:BD:63:ARG:HD2	28:BD:85:ASP:HB3	1.28	1.13
35:BM:22:THR:HG23	35:BM:25:ARG:HD3	1.14	1.13
27:BC:62:VAL:HB	27:BC:195:ALA:HB2	1.18	1.13
16:AP:60:VAL:HA	16:AP:63:THR:HG22	1.29	1.13
52:B4:9:LYS:HE2	52:B4:10:LYS:H	1.05	1.13
29:BE:59:VAL:HB	29:BE:62:PRO:HG2	1.30	1.13
9:AI:77:ARG:HA	9:AI:80:ARG:HD2	1.16	1.13
37:BO:76:LYS:O	37:BO:115:LEU:HB2	1.49	1.13
41:BS:53:ARG:HH21	41:BS:102:ILE:CG1	1.61	1.13
53:B5:20:ASN:HD22	53:B5:41:PRO:CB	1.62	1.13
25:BA:2791:C:H2'	25:BA:2792:G:C8	1.83	1.13
25:BA:324:A:H62	25:BA:339:U:H1'	1.02	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:7:LYS:NZ	28:BD:91:ARG:HH21	1.46	1.13
1:AA:380:G:N2	1:AA:382:A:H3'	1.64	1.12
50:B2:3:ARG:NH1	50:B2:59:VAL:HB	1.62	1.12
25:BA:530:G:H22	25:BA:2021:C:H3'	0.99	1.12
25:BA:2626:C:H2'	25:BA:2627:G:H8	0.99	1.12
25:BA:364:C:H2'	25:BA:365:C:C5	1.83	1.12
25:BA:270(P):C:H5'	33:BK:45:LYS:HG2	1.31	1.12
36:BN:97:ARG:HG2	36:BN:117:LEU:CD2	1.77	1.12
1:AA:1342:C:H1'	12:AL:124:GLN:OE1	1.48	1.12
23:AW:40:ALA:HA	23:AW:55:ILE:HD13	1.29	1.12
25:BA:2596:U:H2'	28:BD:242:ARG:NH1	1.65	1.12
36:BN:72:PRO:HB2	41:BS:84:GLN:NE2	1.63	1.12
44:BV:11:ARG:HB2	44:BV:98:LYS:HE3	1.22	1.12
1:AA:1418:A:H2'	1:AA:1419:G:H5'	1.25	1.12
29:BE:131:ALA:HB1	29:BE:134:ILE:CG1	1.78	1.12
25:BA:1665:A:H1'	36:BN:1:MET:HG2	1.28	1.12
39:BQ:99:LYS:N	39:BQ:99:LYS:HD2	1.61	1.12
2:AC:34:C:C2'	2:AC:35:A:H5''	1.79	1.12
25:BA:1935:G:N2	25:BA:1962:C:H2'	1.63	1.12
25:BA:621:A:H2'	25:BA:622:G:H5'	1.26	1.12
35:BM:127:ASP:H	35:BM:129:PRO:HD2	1.01	1.12
41:BS:13:ARG:HB2	41:BS:13:ARG:HH11	1.15	1.12
25:BA:1044:G:H4'	25:BA:1047:G:H1'	1.13	1.12
25:BA:2747:G:N2	25:BA:2754:U:H3	1.46	1.12
25:BA:337:C:H2'	25:BA:338:G:H5''	1.24	1.12
25:BA:1780:A:C3'	25:BA:1781:C:H5'	1.79	1.12
25:BA:1672:C:C2'	25:BA:1673:U:H5''	1.79	1.12
25:BA:343:C:H2'	25:BA:344:G:H5'	1.24	1.12
25:BA:442:G:C4'	30:BF:46:ARG:HG3	1.80	1.12
25:BA:1971:A:C2	28:BD:239:ARG:HA	1.84	1.12
31:BG:47:LYS:HB2	31:BG:53:LEU:HD11	1.16	1.12
32:BH:40:GLU:HB2	32:BH:55:PRO:HG3	1.27	1.12
25:BA:1201:C:N4	25:BA:1241:A:N6	1.95	1.12
25:BA:2542:A:H4'	25:BA:2543:G:OP1	1.48	1.12
1:AA:1107:C:H2'	1:AA:1108:G:H5'	1.30	1.12
1:AA:862:C:H1'	1:AA:874:G:H5''	1.25	1.12
25:BA:1788:C:C2'	28:BD:222:ARG:HH21	1.62	1.12
28:BD:155:LEU:HG	28:BD:157:ARG:CZ	1.80	1.12
32:BH:35:VAL:HG11	32:BH:72:ILE:HA	1.14	1.12
10:AJ:29:LYS:HD2	10:AJ:101:LEU:HD22	1.30	1.12
11:AK:10:LEU:HD11	11:AK:85:ARG:HD3	1.27	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B2:10:LYS:HG2	50:B2:31:LEU:HD21	1.29	1.12
35:BM:99:LEU:HD21	35:BM:122:VAL:HG21	1.24	1.12
38:BP:27:VAL:CG2	38:BP:138:ASP:OD2	1.96	1.12
47:BY:99:TYR:CD1	47:BY:126:VAL:HG22	1.84	1.12
1:AA:559:A:H4'	1:AA:560:U:H5'	1.13	1.11
25:BA:1312:U:H2'	25:BA:1313:U:C6	1.85	1.11
25:BA:1418:G:H1'	25:BA:1581:G:H22	1.02	1.11
25:BA:2603:G:OP2	48:BZ:1:MET:HB2	1.48	1.11
25:BA:820:A:C2'	25:BA:821:A:H5'	1.80	1.11
36:BN:7:TYR:HA	36:BN:18:LYS:CE	1.80	1.11
41:BS:64:ARG:HH11	41:BS:64:ARG:CA	1.63	1.11
42:BT:112:ARG:NH1	43:BU:50:PRO:HG3	1.64	1.11
1:AA:1408:A:H2	1:AA:1494:G:O2'	1.31	1.11
23:AW:44:ALA:HB3	23:AW:91:LEU:HD12	1.21	1.11
36:BN:16:ALA:HB1	36:BN:45:GLU:CB	1.80	1.11
33:BK:59:ALA:HA	33:BK:62:LYS:HD2	1.25	1.11
19:AS:3:LYS:HD2	19:AS:24:ALA:HB2	1.16	1.11
25:BA:1583:A:H5'	25:BA:1585:C:H5'	1.12	1.11
25:BA:494:G:H4'	44:BV:6:ILE:O	1.50	1.11
25:BA:687:C:O2	25:BA:787:U:O3'	1.65	1.11
38:BP:44:ALA:HA	38:BP:47:ILE:HD12	1.25	1.11
40:BR:44:LYS:HB2	40:BR:46:VAL:HG22	1.32	1.11
11:AK:64:LYS:HG2	11:AK:79:VAL:HG21	1.20	1.11
31:BG:54:GLU:O	31:BG:57:ALA:HB3	1.49	1.11
38:BP:82:ARG:HD2	48:BZ:5:LYS:HD3	1.32	1.11
39:BQ:78:LYS:O	39:BQ:82:GLU:HB2	1.47	1.11
40:BR:94:TYR:C	40:BR:99:LYS:HB2	1.71	1.11
33:BK:81:VAL:HG22	33:BK:144:VAL:HG22	1.20	1.11
5:AE:54:THR:HG21	5:AE:201:ILE:HD11	1.25	1.11
25:BA:2305:A:C2'	25:BA:2306:C:H5''	1.79	1.11
25:BA:2346:A:H62	53:B5:37:ARG:NH1	1.48	1.11
29:BE:51:PHE:HZ	29:BE:75:VAL:HG23	1.09	1.11
31:BG:61:ALA:HB2	31:BG:67:LYS:HB3	1.21	1.11
46:BX:16:ALA:HB3	46:BX:68:HIS:HD1	1.07	1.11
6:AF:11:ARG:HD2	6:AF:16:ARG:HH21	1.06	1.11
14:AN:95:ILE:HA	14:AN:98:LEU:HD12	1.17	1.11
51:B3:68:ARG:HB2	51:B3:68:ARG:HH11	1.14	1.11
25:BA:1814:G:H1'	28:BD:52:ARG:NH2	1.64	1.11
25:BA:2305:A:H2'	25:BA:2306:C:H5''	1.13	1.11
28:BD:5:LYS:HZ2	28:BD:29:PRO:HA	1.09	1.11
25:BA:1658:C:OP1	29:BE:134:ILE:HD12	1.49	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:63:PRO:HG2	37:BO:65:ARG:HG3	1.30	1.11
47:BY:4:ARG:HH11	47:BY:37:VAL:HB	1.16	1.11
48:BZ:38:VAL:HG23	48:BZ:59:LEU:HD13	1.31	1.11
1:AA:130:A:H4'	1:AA:190:G:C2	1.84	1.11
1:AA:1526:G:O2'	1:AA:1527:C:H5'	1.48	1.11
23:AW:45:GLN:NE2	23:AW:91:LEU:HB3	1.64	1.11
25:BA:1788:C:H2'	28:BD:222:ARG:NH2	1.66	1.11
25:BA:2327:A:H2'	25:BA:2328:A:C8	1.84	1.11
25:BA:2377:A:H2'	25:BA:2378:A:N7	1.64	1.11
32:BH:24:VAL:HG23	32:BH:35:VAL:HG23	1.17	1.11
47:BY:99:TYR:HD1	47:BY:126:VAL:HG22	1.13	1.11
1:AA:599:C:H4'	11:AK:130:GLY:HA3	1.19	1.11
1:AA:946:A:H2'	1:AA:947:G:H8	1.02	1.11
19:AS:43:LYS:HA	19:AS:48:TRP:HE3	1.15	1.11
25:BA:2711:A:H5'	25:BA:2712:U:H5'	1.33	1.11
35:BM:109:LYS:HE2	35:BM:110:GLY:N	1.65	1.11
37:BO:46:LYS:H	37:BO:46:LYS:HE3	1.01	1.11
38:BP:43:THR:HG23	38:BP:46:GLN:HE21	1.13	1.11
43:BU:20:LEU:HD22	43:BU:95:LEU:HD13	1.21	1.11
46:BX:42:VAL:H	46:BX:61:ILE:HB	1.12	1.11
33:BK:77:LEU:HD12	33:BK:142:VAL:HG13	1.27	1.11
34:BL:68:VAL:HG11	34:BL:70:LYS:HE3	1.32	1.11
6:AF:157:ILE:HG13	6:AF:164:ARG:HG2	1.13	1.11
25:BA:2468:G:H22	25:BA:2481:G:H2'	1.12	1.11
25:BA:865:C:N4	25:BA:909:A:H62	1.47	1.11
30:BF:130:ALA:HB3	30:BF:142:TRP:HB2	1.18	1.11
42:BT:74:LEU:HD22	42:BT:78:THR:HG21	1.15	1.11
43:BU:18:LEU:HD12	43:BU:66:ARG:HH22	1.15	1.11
9:AI:76:ALA:HB1	9:AI:80:ARG:NH2	1.64	1.11
18:AR:29:VAL:HG11	18:AR:81:LEU:HD21	1.21	1.11
32:BH:98:LEU:HG	32:BH:123:PHE:HB2	1.32	1.11
40:BR:11:LYS:HA	40:BR:14:VAL:HB	1.25	1.11
40:BR:33:LYS:HE2	40:BR:54:LEU:HD21	1.30	1.11
35:BM:42:TRP:CZ3	42:BT:67:ALA:HB1	1.86	1.11
46:BX:14:LEU:HB2	46:BX:20:TYR:HA	1.31	1.11
1:AA:652:U:H1'	1:AA:653:A:H2	1.11	1.10
5:AE:14:GLY:HA3	5:AE:209:ARG:NH2	1.64	1.10
37:BO:78:PRO:HA	37:BO:81:GLN:HG3	1.30	1.10
38:BP:74:TYR:OH	38:BP:94:VAL:HG22	1.50	1.10
25:BA:2132:U:H3'	25:BA:2133:G:H5'	1.16	1.10
25:BA:965:C:C5'	25:BA:2273:A:H1'	1.81	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:22:THR:HG22	35:BM:61:ARG:HH22	1.01	1.10
40:BR:26:LEU:HD21	40:BR:37:ALA:HB1	1.12	1.10
33:BK:94:ALA:HB1	33:BK:114:LEU:HD12	1.13	1.10
8:AH:78:HIS:HB3	11:AK:107:LEU:HD21	1.25	1.10
10:AJ:115:ARG:HB2	10:AJ:118:VAL:HG23	1.22	1.10
25:BA:2459:A:H2'	25:BA:2460:U:O4'	1.51	1.10
25:BA:2701:C:H3'	25:BA:2702:U:H5''	1.26	1.10
36:BN:63:VAL:HB	36:BN:78:ARG:HG3	1.13	1.10
43:BU:23:GLU:HB2	43:BU:93:GLU:HA	1.19	1.10
25:BA:2278:A:N6	48:BZ:14:ARG:HB3	1.65	1.10
9:AI:48:LEU:HB3	21:AU:78:LEU:HD23	1.32	1.10
25:BA:621:A:C8	25:BA:621:A:H3'	1.86	1.10
25:BA:828:U:H2'	25:BA:829:A:H8	1.00	1.10
32:BH:9:ILE:HD11	32:BH:69:ARG:HH22	1.07	1.10
37:BO:114:ILE:HG13	37:BO:123:LEU:HB2	1.33	1.10
28:BD:244:ARG:H	28:BD:245:PRO:HD3	1.15	1.10
29:BE:131:ALA:O	29:BE:134:ILE:HG13	1.48	1.10
30:BF:78:ILE:HD13	30:BF:79:GLY:N	1.66	1.10
42:BT:88:ILE:HG12	43:BU:52:VAL:HG13	1.21	1.10
9:AI:98:LEU:HD22	9:AI:101:ALA:HB2	1.20	1.10
25:BA:1307:A:H4'	25:BA:1379:A:N6	1.64	1.10
29:BE:197:ILE:HB	29:BE:199:ARG:HH21	1.05	1.10
29:BE:22:PRO:HA	29:BE:185:LYS:CA	1.80	1.10
40:BR:6:ALA:O	40:BR:9:ARG:HB3	1.51	1.10
43:BU:40:LEU:HD21	43:BU:55:ALA:HB2	1.16	1.10
7:AG:159:ARG:O	7:AG:163:GLU:HB3	1.49	1.10
2:AC:74:C:H2'	2:AC:75:C:H5''	1.26	1.10
14:AN:111:ASP:OD2	14:AN:113:PRO:HD3	1.49	1.10
14:AN:45:GLY:O	14:AN:50:TYR:HB3	1.48	1.10
16:AP:104:ARG:HG2	16:AP:105:THR:HG23	1.32	1.10
25:BA:2461:C:H1'	25:BA:2492:U:H5	1.05	1.10
31:BG:137:GLU:HA	31:BG:153:ARG:HG2	1.31	1.10
44:BV:74:ALA:HB2	44:BV:105:VAL:HG23	1.30	1.10
1:AA:191(C):G:H2'	1:AA:191(D):U:C6	1.85	1.10
6:AF:91:LEU:HD11	6:AF:99:VAL:H	1.09	1.10
11:AK:95:VAL:HB	11:AK:99:GLU:OE1	1.51	1.10
51:B3:59:PHE:HA	51:B3:62:ARG:HD2	1.33	1.10
25:BA:270(M):U:H4'	25:BA:270(N):G:H4'	1.19	1.10
34:BL:23:VAL:HG13	34:BL:27:LEU:HD12	1.30	1.10
19:AS:72:ARG:HD3	19:AS:73:LEU:N	1.67	1.10
31:BG:107:LEU:O	31:BG:111:LEU:HB2	1.49	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2745:C:O2'	32:BH:143:GLN:HG2	1.52	1.10
33:BK:3:VAL:HG21	33:BK:21:VAL:HG23	1.19	1.10
25:BA:308:G:N2	25:BA:309:G:H1'	1.66	1.10
25:BA:712:G:H2'	25:BA:713:G:H8	1.06	1.10
27:BC:87:GLU:HG2	27:BC:94:VAL:HG11	1.18	1.10
5:AE:101:MET:HA	5:AE:108:ILE:HG13	1.14	1.09
50:B2:35:ARG:HH12	50:B2:47:VAL:HG22	1.09	1.09
25:BA:585:G:H2'	25:BA:1251:C:N4	1.67	1.09
25:BA:29:U:H2'	25:BA:30:G:C8	1.87	1.09
37:BO:138:LEU:HD11	37:BO:145:PRO:HG3	1.16	1.09
2:AC:37:A:H2'	2:AC:38:A:H8	1.17	1.09
5:AE:15:VAL:HG11	5:AE:209:ARG:HB3	1.12	1.09
12:AL:112:LYS:HE2	12:AL:117:HIS:HA	1.32	1.09
54:B6:48:LYS:HG3	54:B6:49:ARG:H	1.00	1.09
25:BA:2459:A:N3	25:BA:2460:U:C1'	2.14	1.09
26:BB:12:C:H5''	48:BZ:74:ARG:HG2	1.28	1.09
35:BM:11:PRO:HB2	35:BM:13:TRP:CZ3	1.86	1.09
47:BY:176:PRO:HB2	47:BY:179:ASP:HA	1.27	1.09
11:AK:12:ARG:HD2	11:AK:26:VAL:HG23	1.33	1.09
19:AS:32:TYR:HE2	19:AS:35:LYS:HB2	1.14	1.09
25:BA:1791:A:O3'	28:BD:206:LEU:HD21	1.49	1.09
32:BH:43:VAL:HG22	32:BH:52:VAL:HA	1.15	1.09
7:AG:60:GLU:HG2	7:AG:203:VAL:HG23	1.29	1.09
25:BA:1270:C:H5''	25:BA:1271:G:H5''	1.18	1.09
25:BA:1451:C:C3'	25:BA:1453:A:H4'	1.82	1.09
25:BA:2239:G:H3'	25:BA:2240:C:H5''	1.17	1.09
31:BG:55:LYS:HB3	31:BG:152:LEU:HD11	1.25	1.09
15:AO:126:LYS:HE3	15:AO:126:LYS:H	1.16	1.09
5:AE:69:LEU:HB3	5:AE:162:ILE:HG22	1.33	1.09
11:AK:126:LYS:HZ2	11:AK:127:LEU:HD23	1.01	1.09
25:BA:2092:U:H5	25:BA:2227:A:N6	1.50	1.09
25:BA:2505:G:H2'	25:BA:2576:G:N2	1.67	1.09
25:BA:1501:C:O4'	28:BD:100:GLY:HA2	1.51	1.09
29:BE:47:VAL:HG22	29:BE:79:ARG:HB2	1.29	1.09
37:BO:122:PRO:HA	37:BO:134:ALA:HA	1.33	1.09
5:AE:16:HIS:HE1	5:AE:213:LEU:HD13	1.14	1.09
6:AF:83:ARG:HG3	6:AF:87:LEU:HD11	1.29	1.09
16:AP:23:TYR:HB3	16:AP:67:GLU:HA	1.31	1.09
25:BA:1568:G:P	28:BD:61:LEU:HG	1.91	1.09
25:BA:1718:G:H2'	25:BA:1725:G:C8	1.85	1.09
25:BA:2393:A:H4'	37:BO:56:SER:H	1.10	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:739:G:H2'	25:BA:1784:A:H61	1.14	1.09
36:BN:16:ALA:CB	36:BN:45:GLU:HB2	1.83	1.09
39:BQ:32:GLY:HA2	39:BQ:116:LEU:HD21	1.24	1.09
10:AJ:46:ALA:HA	10:AJ:49:ILE:HD13	1.29	1.09
32:BH:149:ARG:HD3	32:BH:164:TYR:HD1	1.03	1.09
36:BN:10:VAL:H	36:BN:17:ARG:HG2	1.17	1.09
44:BV:5:ALA:HB2	44:BV:54:ALA:HB2	1.34	1.09
13:AM:24:VAL:HA	13:AM:34:VAL:HG21	1.28	1.09
53:B5:19:ARG:HH11	53:B5:19:ARG:HG2	0.98	1.09
25:BA:1775:U:H6	25:BA:1775:U:C3'	1.58	1.09
1:AA:1483:A:H2	25:BA:1960:A:H1'	1.12	1.09
25:BA:1967:C:H42	25:BA:1968:G:N2	1.49	1.09
25:BA:2287:A:N7	25:BA:2289:G:N7	2.01	1.09
25:BA:2520:C:O2'	25:BA:2521:C:H5'	1.49	1.09
25:BA:2581:G:H4'	25:BA:2582:G:N7	1.67	1.09
25:BA:515:A:H8	25:BA:515:A:O5'	1.36	1.09
26:BB:12:C:C5'	48:BZ:74:ARG:HG2	1.83	1.09
26:BB:7:G:H4'	40:BR:29:PHE:CZ	1.87	1.09
27:BC:59:ARG:HD3	27:BC:164:ARG:HG2	1.34	1.09
28:BD:176:ARG:HH11	28:BD:176:ARG:HG3	1.18	1.09
28:BD:89:SER:HB2	28:BD:202:LYS:HZ1	1.10	1.09
35:BM:70:LYS:HD2	35:BM:86:PRO:HA	1.24	1.09
2:AC:34:C:H2'	2:AC:35:A:H5''	1.25	1.09
6:AF:91:LEU:HD21	6:AF:98:ASN:HA	1.19	1.09
25:BA:1142:U:H3'	25:BA:1142(A):A:N7	1.68	1.09
25:BA:293:U:H2'	25:BA:294:A:H8	1.11	1.09
25:BA:763:G:O2'	25:BA:764:A:H5''	1.51	1.09
28:BD:58:HIS:O	28:BD:59:LYS:HG3	1.52	1.09
42:BT:47:TYR:HB3	42:BT:51:LYS:HE2	1.33	1.09
15:AO:93:LEU:HD12	15:AO:96:VAL:HG21	1.16	1.09
21:AU:44:LEU:HG	21:AU:45:SER:H	1.17	1.09
51:B3:7:PRO:HD3	51:B3:56:VAL:HG13	1.31	1.09
25:BA:1025:G:H1'	25:BA:1134:G:H4'	1.25	1.09
25:BA:1275:A:C2	39:BQ:16:HIS:HA	1.87	1.09
25:BA:2570:G:H5'	25:BA:2571:C:OP2	1.50	1.09
39:BQ:38:VAL:HB	39:BQ:39:PRO:HD3	1.35	1.09
41:BS:23:ARG:NH2	41:BS:90:GLN:H	1.50	1.09
9:AI:76:ALA:HB1	9:AI:80:ARG:HH21	1.02	1.08
38:BP:34:LEU:HA	38:BP:131:ILE:HG12	1.30	1.08
44:BV:16:LYS:HA	44:BV:19:LEU:HD12	1.32	1.08
11:AK:29:SER:HB2	11:AK:32:LYS:HZ1	1.04	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:48:LEU:HD13	16:AP:53:VAL:HG22	1.32	1.08
44:BV:90:ARG:NH2	44:BV:90:ARG:H	1.51	1.08
25:BA:1085:A:H1'	25:BA:1086:A:H4'	1.31	1.08
1:AA:1338:G:H21	2:AC:41:C:H1'	1.18	1.08
25:BA:858:U:C2'	25:BA:2268:A:H2'	1.83	1.08
25:BA:2416:C:C2'	25:BA:2417:C:H5''	1.82	1.08
32:BH:9:ILE:HD13	32:BH:73:ALA:HB2	1.31	1.08
5:AE:78:GLN:HG3	5:AE:94:ASN:HB3	1.13	1.08
25:BA:1971:A:C8	25:BA:1971:A:H3'	1.88	1.08
25:BA:2311:A:H5''	25:BA:2312:U:H5	1.11	1.08
35:BM:6:PRO:HA	35:BM:41:ASP:HB3	1.26	1.08
35:BM:43:THR:HB	35:BM:44:PRO:HD2	1.28	1.08
36:BN:97:ARG:CG	36:BN:117:LEU:HD21	1.82	1.08
46:BX:6:HIS:HB3	46:BX:71:LYS:HG2	1.31	1.08
25:BA:2431:U:C2'	25:BA:2432:A:H5''	1.82	1.08
25:BA:457:A:H1'	25:BA:459:U:N3	1.67	1.08
27:BC:124:GLY:HA2	27:BC:137:LEU:HD21	1.35	1.08
29:BE:13:ARG:NH2	29:BE:20:ALA:HB3	1.66	1.08
18:AR:64:ARG:HA	18:AR:67:LEU:HD12	1.29	1.08
25:BA:1291:C:H5'	25:BA:1535:U:O2'	1.51	1.08
25:BA:2530:A:H3'	25:BA:2531:A:H5''	1.32	1.08
51:B3:13:ARG:HG2	51:B3:14:ILE:H	1.01	1.08
19:AS:75:ARG:HA	19:AS:80:PHE:CB	1.83	1.08
55:B7:50:LEU:HD23	55:B7:51:ALA:H	1.10	1.08
25:BA:1259:G:H2'	25:BA:1260:G:H8	1.12	1.08
25:BA:1911:U:O2'	25:BA:1912:A:H5'	1.52	1.08
25:BA:2455:G:H2'	25:BA:2456:C:H6	1.11	1.08
27:BC:29:VAL:HA	27:BC:32:LEU:HD12	1.33	1.08
29:BE:13:ARG:CZ	29:BE:20:ALA:HB3	1.84	1.08
37:BO:9:ASN:HB2	37:BO:10:PRO:HD2	1.34	1.08
1:AA:599:C:H4'	11:AK:130:GLY:CA	1.83	1.08
5:AE:150:SER:HA	5:AE:153:ARG:HB2	1.12	1.08
25:BA:2615:U:H2'	25:BA:2616:C:H6	1.14	1.08
28:BD:161:THR:HG23	28:BD:196:VAL:H	1.15	1.08
30:BF:157:VAL:HG23	30:BF:194:MET:HB3	1.13	1.08
32:BH:120:GLY:HA3	32:BH:136:ILE:HG22	1.34	1.08
36:BN:10:VAL:HG13	36:BN:11:ALA:H	1.12	1.08
43:BU:13:ARG:HB3	43:BU:13:ARG:HH11	0.93	1.08
42:BT:112:ARG:HH12	43:BU:50:PRO:HG3	0.91	1.08
9:AI:23:LYS:HA	9:AI:26:ILE:HD12	1.08	1.08
56:B8:25:VAL:HB	56:B8:34:GLN:HB2	1.36	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1203:G:C6	25:BA:1241:A:N3	2.22	1.08
27:BC:22:ILE:HD13	27:BC:190:ARG:NH1	1.68	1.08
32:BH:103:LEU:HB2	32:BH:115:VAL:HB	1.13	1.08
35:BM:86:PRO:O	35:BM:89:LYS:HE3	1.54	1.08
36:BN:122:LEU:H	41:BS:70:VAL:HG12	1.12	1.08
25:BA:1712:C:H2'	25:BA:1716:U:H6	1.17	1.08
25:BA:2805:G:H3'	25:BA:2807:G:H5''	1.29	1.08
28:BD:37:LEU:HD21	28:BD:63:ARG:HA	1.32	1.08
29:BE:133:LYS:NZ	29:BE:136:ARG:HH22	1.52	1.08
25:BA:2620:C:H4'	29:BE:156:MET:HB3	1.34	1.08
35:BM:86:PRO:HB2	35:BM:89:LYS:NZ	1.69	1.08
36:BN:96:THR:HG23	36:BN:97:ARG:H	1.19	1.08
39:BQ:61:HIS:HA	39:BQ:64:ARG:HD3	1.30	1.08
25:BA:445:C:OP1	42:BT:2:PRO:HB2	1.54	1.08
46:BX:45:VAL:HG12	46:BX:57:GLN:HE22	1.16	1.08
1:AA:190:G:H4'	1:AA:191(A):G:OP2	1.54	1.07
5:AE:55:PHE:HE2	5:AE:218:ALA:HA	1.11	1.07
18:AR:33:THR:O	18:AR:36:ILE:HG22	1.53	1.07
53:B5:19:ARG:HH12	53:B5:41:PRO:HG3	1.08	1.07
33:BK:7:GLU:HA	33:BK:14:ASP:CG	1.73	1.07
35:BM:97:ARG:O	35:BM:100:GLU:HB2	1.54	1.07
19:AS:75:ARG:HA	19:AS:80:PHE:HB2	1.09	1.07
25:BA:1775:U:O2	28:BD:208:LYS:HE3	1.54	1.07
30:BF:140:LEU:HD23	30:BF:143:ALA:HB3	1.37	1.07
35:BM:30:ILE:O	35:BM:34:LEU:HD12	1.54	1.07
35:BM:78:TYR:CD1	35:BM:79:PRO:HD2	1.89	1.07
36:BN:2:ILE:HD12	36:BN:32:TYR:HD1	1.17	1.07
37:BO:78:PRO:HG3	37:BO:116:GLY:HA2	1.30	1.07
41:BS:70:VAL:HB	41:BS:74:ARG:NH1	1.67	1.07
43:BU:3:ALA:HA	43:BU:44:LYS:NZ	1.68	1.07
6:AF:157:ILE:HG13	6:AF:164:ARG:CG	1.84	1.07
25:BA:2468:G:H2'	25:BA:2476:A:H2	0.91	1.07
25:BA:2591:C:H2'	25:BA:2592:G:C8	1.89	1.07
28:BD:148:GLU:HB2	28:BD:154:LYS:NZ	1.70	1.07
29:BE:46:ALA:C	29:BE:48:GLN:HE22	1.58	1.07
38:BP:75:THR:HB	38:BP:77:LYS:HE3	1.29	1.07
6:AF:91:LEU:HD23	6:AF:92:ALA:N	1.69	1.07
11:AK:89:PRO:HA	11:AK:92:ARG:HE	1.14	1.07
25:BA:1558:A:H2	25:BA:1560:G:C1'	1.66	1.07
25:BA:1568:G:H5''	28:BD:60:ARG:O	1.54	1.07
25:BA:2572:A:H4'	25:BA:2573:C:H5''	1.34	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2776:A:H4'	25:BA:2777:G:H5''	1.19	1.07
30:BF:154:VAL:O	30:BF:174:VAL:HG13	1.55	1.07
1:AA:950:U:H5''	16:AP:102:ARG:HH22	1.13	1.07
25:BA:1142(A):A:N1	25:BA:1143:A:C8	2.23	1.07
25:BA:916:G:N2	25:BA:917:A:H62	1.51	1.07
28:BD:72:LYS:HB3	28:BD:75:ILE:HB	1.30	1.07
35:BM:6:PRO:CA	35:BM:41:ASP:HB3	1.83	1.07
1:AA:819:A:H4'	1:AA:820:U:OP2	1.48	1.07
9:AI:22:GLU:HA	9:AI:25:ILE:HD12	1.33	1.07
12:AL:10:ARG:HA	12:AL:104:ARG:NE	1.67	1.07
15:AO:88:GLY:H	15:AO:98:TYR:HA	1.07	1.07
25:BA:241:A:H1'	25:BA:243:U:C6	1.89	1.07
25:BA:2505:G:H2'	25:BA:2576:G:H22	1.18	1.07
25:BA:293:U:H2'	25:BA:294:A:C8	1.89	1.07
25:BA:336:C:H2'	25:BA:337:C:H5'	1.28	1.07
38:BP:109:VAL:HG11	38:BP:114:ALA:H	0.91	1.07
40:BR:52:SER:HB3	40:BR:73:LEU:HD11	1.32	1.07
45:BW:92:LEU:H	45:BW:92:LEU:HD12	1.18	1.07
47:BY:157:LEU:HD13	47:BY:161:VAL:HG13	1.31	1.07
1:AA:297:G:H21	1:AA:299:G:H3'	1.15	1.07
12:AL:55:ALA:HB3	12:AL:58:HIS:CE1	1.90	1.07
25:BA:1952:A:H1'	25:BA:2560:C:O2'	1.54	1.07
37:BO:49:ARG:HG2	37:BO:49:ARG:HH21	1.17	1.07
40:BR:89:ARG:NH1	40:BR:91:PRO:HA	1.68	1.07
47:BY:4:ARG:HG2	47:BY:5:LEU:H	1.15	1.07
4:A1:15:A:H5''	4:A1:15:A:H8	1.12	1.07
5:AE:208:ILE:HG21	5:AE:239:VAL:HG11	1.34	1.07
20:AT:75:ARG:HH22	20:AT:77:VAL:HG13	1.15	1.07
53:B5:16:CYS:HA	53:B5:49:HIS:O	1.52	1.07
25:BA:1223:C:H42	43:BU:88:ARG:NH2	1.51	1.07
25:BA:2076:U:H4'	25:BA:2077:A:OP1	1.51	1.07
28:BD:54:ARG:HB3	28:BD:218:ARG:HB3	1.37	1.07
29:BE:101:ARG:HD2	29:BE:169:ASN:HD21	0.95	1.07
30:BF:176:LEU:HG	30:BF:178:PRO:HD2	1.35	1.07
32:BH:35:VAL:HB	32:BH:72:ILE:HG12	1.32	1.07
45:BW:12:VAL:HB	45:BW:27:THR:O	1.54	1.07
5:AE:92:TYR:H	5:AE:152:PHE:HA	1.18	1.07
19:AS:14:ASN:HB2	19:AS:42:ARG:HH22	1.15	1.07
25:BA:279:C:H41	25:BA:359:A:H1'	1.17	1.07
25:BA:931:G:H8	25:BA:932:G:H1'	1.19	1.07
26:BB:14:U:H1'	26:BB:107:U:H1'	1.37	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:56:C:O2'	31:BG:82:LEU:HA	1.54	1.07
1:AA:928:G:H4'	1:AA:1533:C:H1'	1.16	1.07
5:AE:25:ASN:HD21	5:AE:27:LYS:HG2	1.13	1.07
14:AN:84:VAL:HG11	21:AU:88:LYS:HD3	1.36	1.07
50:B2:55:ARG:HA	50:B2:55:ARG:NH2	1.70	1.07
27:BC:30:LYS:NZ	27:BC:182:PRO:HD3	1.67	1.07
28:BD:206:LEU:HD23	28:BD:207:GLY:H	0.90	1.07
29:BE:13:ARG:HG3	29:BE:22:PRO:HD3	1.07	1.07
30:BF:6:VAL:HA	30:BF:20:LEU:HD21	1.28	1.07
42:BT:13:LYS:HD2	42:BT:13:LYS:H	1.15	1.07
42:BT:92:ARG:HG2	42:BT:93:LYS:NZ	1.69	1.07
2:AC:37:A:H2'	2:AC:38:A:C8	1.88	1.06
22:AV:41:VAL:HB	22:AV:42:PRO:HD2	1.36	1.06
25:BA:623:G:C8	37:BO:105:LEU:HD13	1.90	1.06
32:BH:9:ILE:HG13	32:BH:69:ARG:HH12	1.14	1.06
38:BP:66:ILE:HG22	38:BP:67:ARG:H	0.96	1.06
42:BT:48:ALA:HB3	42:BT:52:ARG:HH21	1.11	1.06
1:AA:1265:G:H2'	1:AA:1266:G:H5'	1.33	1.06
1:AA:313:A:H2'	1:AA:314:C:C6	1.90	1.06
14:AN:58:PRO:HB3	14:AN:90:GLY:HA3	1.33	1.06
23:AW:63:ILE:HD13	23:AW:80:ARG:HB3	1.29	1.06
49:B1:2:ARG:O	49:B1:5:LEU:HB3	1.55	1.06
51:B3:5:ILE:HD11	51:B3:10:VAL:HG23	1.31	1.06
25:BA:1188:U:O2'	25:BA:1189:A:H5'	1.51	1.06
28:BD:39:LYS:HD2	28:BD:39:LYS:H	1.18	1.06
28:BD:7:LYS:HZ3	28:BD:91:ARG:NH2	1.52	1.06
36:BN:122:LEU:N	41:BS:70:VAL:HG12	1.68	1.06
25:BA:64:A:O2'	45:BW:71:GLY:HA3	1.54	1.06
15:AO:5:PRO:HB3	15:AO:10:LEU:HD21	1.35	1.06
18:AR:62:GLN:HE21	18:AR:66:LEU:HD21	1.10	1.06
25:BA:586:A:N1	25:BA:810:U:H5'	1.69	1.06
33:BK:7:GLU:N	33:BK:8:PRO:HD3	1.67	1.06
35:BM:67:LEU:HA	35:BM:70:LYS:NZ	1.70	1.06
25:BA:663:G:H5'	37:BO:18:ARG:HB3	1.32	1.06
5:AE:185:ILE:CG2	5:AE:199:TYR:HB2	1.85	1.06
1:AA:1202:G:H1'	17:AQ:29:ARG:HD2	1.34	1.06
52:B4:15:ARG:HG3	52:B4:16:ARG:N	1.70	1.06
25:BA:1671:U:O2	25:BA:1673:U:H5'	1.53	1.06
25:BA:442:G:H4'	30:BF:46:ARG:HG3	1.35	1.06
38:BP:109:VAL:HG11	38:BP:114:ALA:N	1.68	1.06
43:BU:61:VAL:O	43:BU:99:ILE:HB	1.55	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BX:35:TYR:O	46:BX:64:GLU:HB3	1.55	1.06
33:BK:125:GLU:CB	33:BK:143:SER:HA	1.85	1.06
25:BA:1061:U:H4'	25:BA:1070:A:C1'	1.84	1.06
7:AG:20:TYR:HA	7:AG:26:CYS:SG	1.95	1.06
25:BA:1451:C:H3'	25:BA:1453:A:C4'	1.86	1.06
25:BA:247:G:H1	55:B7:8:LYS:HD2	0.93	1.06
25:BA:2581:G:H1	25:BA:2610:C:H2'	1.05	1.06
35:BM:70:LYS:HD2	35:BM:86:PRO:CA	1.85	1.06
40:BR:89:ARG:HH11	40:BR:91:PRO:HA	1.14	1.06
42:BT:83:LEU:O	42:BT:86:ALA:HB3	1.54	1.06
6:AF:182:ILE:HG23	6:AF:203:PHE:HA	1.35	1.06
9:AI:100:ASN:ND2	21:AU:23:LYS:HG2	1.71	1.06
25:BA:299:A:O2'	25:BA:319:C:H4'	1.53	1.06
25:BA:858:U:H2'	25:BA:2268:A:H2'	1.38	1.06
25:BA:928:G:O2'	50:B2:43:ILE:HD11	1.55	1.06
27:BC:64:LEU:HD11	27:BC:161:ILE:HG21	1.36	1.06
28:BD:84:TYR:HD1	28:BD:91:ARG:HD2	1.12	1.06
31:BG:75:LYS:HZ3	31:BG:85:GLY:HA3	1.20	1.06
36:BN:97:ARG:HB2	36:BN:97:ARG:HH21	1.18	1.06
34:BL:79:ARG:HD3	34:BL:134:MET:HG3	1.32	1.06
1:AA:558:G:H3'	1:AA:559:A:H5''	1.37	1.06
50:B2:3:ARG:HH12	50:B2:59:VAL:CB	1.69	1.06
53:B5:20:ASN:HD21	53:B5:43:CYS:N	1.54	1.06
25:BA:1638:C:H2'	25:BA:1639:U:O4'	1.55	1.06
31:BG:170:ARG:O	31:BG:174:GLU:HB3	1.56	1.06
39:BQ:99:LYS:CD	39:BQ:99:LYS:H	1.63	1.06
41:BS:33:LYS:HD3	41:BS:45:PHE:CD2	1.90	1.06
46:BX:12:THR:HG22	46:BX:13:VAL:H	1.21	1.06
1:AA:1129:C:H5'	1:AA:1130:A:OP1	1.54	1.06
53:B5:48:VAL:O	53:B5:49:HIS:HB2	1.55	1.06
25:BA:1788:C:H2'	28:BD:222:ARG:HH21	0.94	1.06
27:BC:64:LEU:HG	27:BC:161:ILE:HD12	1.38	1.06
27:BC:85:GLU:HG2	27:BC:150:GLY:HA3	1.37	1.06
38:BP:34:LEU:O	38:BP:103:MET:HB2	1.54	1.06
47:BY:46:LYS:O	47:BY:49:ARG:HB2	1.56	1.06
34:BL:112:MET:HE3	34:BL:118:THR:HG22	1.37	1.06
25:BA:1069:A:H4'	25:BA:1070:A:H5''	1.08	1.06
1:AA:1119:C:H2'	1:AA:1120:G:C8	1.90	1.06
5:AE:111:ARG:HH11	5:AE:111:ARG:HA	1.21	1.06
11:AK:103:VAL:HB	11:AK:108:GLY:HA3	1.38	1.06
25:BA:775:G:C2'	25:BA:794:G:N7	2.18	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2052:G:H1'	29:BE:149:ARG:C	1.76	1.06
40:BR:9:ARG:HH11	40:BR:9:ARG:CA	1.68	1.06
1:AA:1501:C:H2'	1:AA:1504:G:O6	1.56	1.06
9:AI:36:ARG:HB3	9:AI:36:ARG:HH11	1.13	1.06
25:BA:1466:G:H2'	25:BA:1547:C:H41	1.18	1.06
25:BA:820:A:H2'	25:BA:821:A:H5'	1.06	1.06
37:BO:107:LYS:NZ	37:BO:110:TYR:HB3	1.69	1.06
25:BA:1216:G:OP1	42:BT:11:ARG:HD3	1.56	1.06
42:BT:92:ARG:HA	42:BT:95:LEU:HG	1.37	1.06
43:BU:40:LEU:HA	43:BU:54:GLY:HA3	1.37	1.06
47:BY:10:ARG:CZ	47:BY:36:LYS:HB2	1.86	1.06
48:BZ:21:LEU:HD13	48:BZ:41:ARG:HG2	1.34	1.06
7:AG:74:GLN:HA	7:AG:77:ASN:HD22	1.15	1.05
13:AM:23:ILE:HG23	13:AM:85:LEU:HD23	1.37	1.05
25:BA:2563:U:H4'	36:BN:28:SER:OG	1.52	1.05
25:BA:932:G:H2'	25:BA:933:A:C8	1.91	1.05
25:BA:997:G:H5''	42:BT:92:ARG:NH1	1.71	1.05
29:BE:165:VAL:CG1	29:BE:166:THR:H	1.69	1.05
30:BF:122:LYS:HZ3	30:BF:122:LYS:HA	0.99	1.05
5:AE:67:THR:HG21	5:AE:155:LEU:HD11	1.33	1.05
11:AK:14:ARG:HH11	11:AK:14:ARG:HB3	1.19	1.05
15:AO:117:ARG:HH22	15:AO:124:LYS:HG2	1.18	1.05
21:AU:70:ILE:HG22	21:AU:74:ARG:HE	1.18	1.05
25:BA:1203:G:N7	25:BA:1240:U:O4	1.88	1.05
25:BA:1491:G:C3'	25:BA:1492:G:H4'	1.86	1.05
25:BA:2530:A:C3'	25:BA:2531:A:H5''	1.86	1.05
25:BA:270(C):C:H2'	25:BA:270(D):C:C6	1.89	1.05
25:BA:472:A:H2'	25:BA:473:G:H5'	1.33	1.05
25:BA:482:A:N3	25:BA:482:A:H2'	1.67	1.05
32:BH:35:VAL:HG21	32:BH:72:ILE:HG23	1.33	1.05
21:AU:55:ARG:HH11	21:AU:55:ARG:HB3	1.19	1.05
51:B3:5:ILE:HG22	51:B3:7:PRO:HD2	1.38	1.05
25:BA:247:G:N1	55:B7:8:LYS:HD2	1.70	1.05
25:BA:996:A:H5'	42:BT:93:LYS:HD2	1.32	1.05
7:AG:173:TRP:HA	7:AG:186:LEU:HD21	1.39	1.05
16:AP:91:ARG:HH11	16:AP:96:LEU:HG	1.17	1.05
52:B4:47:PRO:C	52:B4:58:LEU:HG	1.75	1.05
25:BA:1954:G:H21	25:BA:1956:U:H1'	0.89	1.05
25:BA:2063:C:H1'	25:BA:2451:A:H2	1.08	1.05
30:BF:131:GLY:HA2	30:BF:138:GLU:CB	1.85	1.05
25:BA:2876:G:H5'	41:BS:1:MET:N	1.72	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:80:ILE:HD11	8:AH:91:LEU:HB3	1.33	1.05
15:AO:117:ARG:HH21	15:AO:124:LYS:HA	1.19	1.05
1:AA:259:G:H3'	23:AW:83:ARG:HH22	1.21	1.05
50:B2:50:VAL:HG13	50:B2:53:LEU:HG	1.39	1.05
56:B8:19:ARG:HH11	56:B8:22:ARG:HD3	1.14	1.05
25:BA:574:C:H41	25:BA:2054:A:C5'	1.68	1.05
25:BA:245:G:H22	25:BA:254:G:H1'	1.17	1.05
27:BC:167:LYS:HG3	27:BC:168:THR:H	0.93	1.05
28:BD:196:VAL:CG1	28:BD:197:GLY:H	1.68	1.05
3:AD:62:C:O2'	27:BC:53:ARG:HG2	1.56	1.05
5:AE:55:PHE:HA	5:AE:58:ILE:HD12	1.35	1.05
11:AK:34:GLU:O	11:AK:37:ARG:HB3	1.56	1.05
25:BA:1255:U:H5'	25:BA:1256:G:C5'	1.86	1.05
25:BA:2332:U:C4'	25:BA:2336:A:H62	1.69	1.05
25:BA:2791:C:H2'	25:BA:2792:G:H8	0.94	1.05
25:BA:965:C:H5'	25:BA:2273:A:C1'	1.87	1.05
25:BA:2416:C:H5''	37:BO:59:LEU:HB2	1.35	1.05
5:AE:185:ILE:HG22	5:AE:199:TYR:HB2	1.09	1.05
53:B5:16:CYS:HB2	53:B5:49:HIS:HA	1.08	1.05
25:BA:1532:C:H2'	25:BA:1533:C:C6	1.91	1.05
25:BA:2047:U:H2'	25:BA:2048:G:H8	1.21	1.05
25:BA:2626:C:H2'	25:BA:2627:G:C8	1.91	1.05
25:BA:2756:U:O4	25:BA:2759:G:O6	1.74	1.05
25:BA:489:G:N2	25:BA:491:G:H1'	1.72	1.05
37:BO:13:ASN:ND2	37:BO:14:LYS:H	1.53	1.05
25:BA:531:C:H42	42:BT:38:THR:HG22	1.16	1.05
1:AA:279:A:H1'	1:AA:281:G:N3	1.72	1.05
7:AG:18:LYS:HG2	7:AG:33:MET:HB3	1.38	1.05
9:AI:42:GLU:HG2	9:AI:42:GLU:O	1.56	1.05
25:BA:2491:U:H6	25:BA:2491:U:C3'	1.65	1.05
25:BA:341:G:H2'	25:BA:342:G:O4'	1.56	1.05
41:BS:79:HIS:HB2	41:BS:82:LEU:HG	1.32	1.05
6:AF:47:LEU:HD11	6:AF:83:ARG:HH21	1.09	1.05
7:AG:94:LEU:HA	7:AG:97:LEU:HD12	1.37	1.05
9:AI:45:LEU:HG	9:AI:59:TYR:CD1	1.92	1.05
25:BA:1995:U:C5	25:BA:1996:C:C5	2.45	1.05
25:BA:390:A:H5''	25:BA:391:G:OP1	1.56	1.05
25:BA:468:G:H2'	25:BA:469:G:O4'	1.56	1.05
25:BA:674:G:H4'	30:BF:74:ARG:NH1	1.72	1.05
29:BE:8:LYS:HA	29:BE:8:LYS:HE2	1.32	1.05
30:BF:119:ARG:NH2	30:BF:119:ARG:HB2	1.71	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:68:PRO:HB3	31:BG:72:ARG:HH12	1.17	1.05
1:AA:1200:C:H5'	1:AA:1202:G:OP1	1.57	1.05
10:AJ:87:VAL:HB	10:AJ:156:TRP:CZ3	1.92	1.05
20:AT:5:VAL:HG22	20:AT:60:ILE:HA	1.37	1.05
25:BA:783:A:H4'	25:BA:2588:G:O3'	1.55	1.05
29:BE:173:VAL:HG22	29:BE:183:LEU:O	1.54	1.05
41:BS:23:ARG:HH22	41:BS:90:GLN:N	1.53	1.05
25:BA:1072:C:H2'	25:BA:1093:G:O6	1.55	1.05
14:AN:99:GLN:HB3	14:AN:105:VAL:HG11	1.39	1.04
53:B5:16:CYS:CB	53:B5:49:HIS:HA	1.86	1.04
26:BB:71:C:C2'	26:BB:72:G:H5'	1.87	1.04
29:BE:22:PRO:HA	29:BE:185:LYS:HA	1.09	1.04
25:BA:675:A:H4'	30:BF:67:GLN:OE1	1.57	1.04
42:BT:97:ASP:HB3	42:BT:101:ARG:HH21	1.19	1.04
45:BW:8:ILE:HD11	45:BW:42:ALA:HB2	1.37	1.04
5:AE:200:ILE:O	5:AE:202:PRO:HD3	1.57	1.04
14:AN:69:ALA:HB1	14:AN:103:LEU:HD12	1.36	1.04
1:AA:43:C:H5''	19:AS:12:LYS:HB3	1.37	1.04
25:BA:2432:A:C2	51:B3:30:GLU:HA	1.91	1.04
25:BA:2491:U:H6	25:BA:2491:U:H3'	0.88	1.04
18:AR:60:VAL:HG11	25:BA:715:G:H5''	1.40	1.04
25:BA:1799:G:C8	28:BD:268:ARG:NH1	2.25	1.04
31:BG:44:GLY:HA3	31:BG:72:ARG:HB3	1.34	1.04
40:BR:74:ALA:HB1	40:BR:108:GLY:N	1.71	1.04
41:BS:26:ASP:HA	41:BS:100:TYR:OH	1.57	1.04
43:BU:83:ARG:HH21	43:BU:85:LYS:HD2	1.20	1.04
1:AA:571:U:H3'	1:AA:572:A:H5''	1.06	1.04
5:AE:18:GLY:HA3	5:AE:41:ILE:HA	1.37	1.04
5:AE:82:ARG:HA	5:AE:92:TYR:CE1	1.92	1.04
25:BA:2623:G:N2	52:B4:22:HIS:HE1	1.53	1.04
25:BA:963:U:H1'	25:BA:2250:G:H21	1.19	1.04
25:BA:2662:A:H2'	25:BA:2663:G:H5'	1.37	1.04
41:BS:50:ILE:HB	41:BS:66:VAL:HB	1.37	1.04
5:AE:136:VAL:HA	5:AE:139:LYS:HZ2	1.22	1.04
25:BA:26:G:H1	25:BA:27:G:N2	1.54	1.04
25:BA:319:C:H2'	25:BA:320:A:H8	1.20	1.04
36:BN:43:VAL:HG11	36:BN:54:GLU:CA	1.87	1.04
39:BQ:97:VAL:HA	39:BQ:114:VAL:HG22	1.34	1.04
43:BU:19:LYS:HB3	43:BU:21:ARG:NH1	1.72	1.04
1:AA:279:A:H1'	1:AA:281:G:C2	1.91	1.04
1:AA:665:A:H2'	1:AA:725:G:N2	1.73	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:87:ARG:NH1	5:AE:233:SER:HA	1.73	1.04
25:BA:1204:A:OP2	25:BA:1204:A:O4'	1.73	1.04
25:BA:2755:C:H4'	25:BA:2756:U:C6	1.92	1.04
25:BA:637:A:H2	25:BA:651:G:C5'	1.70	1.04
28:BD:206:LEU:HD23	28:BD:207:GLY:N	1.70	1.04
29:BE:133:LYS:NZ	29:BE:136:ARG:NH2	2.06	1.04
36:BN:43:VAL:HG11	36:BN:54:GLU:HA	1.06	1.04
37:BO:76:LYS:HZ2	37:BO:96:THR:HG21	1.22	1.04
25:BA:1355:G:H22	25:BA:1377:G:H1'	1.22	1.04
25:BA:1775:U:H3'	25:BA:1775:U:H6	0.88	1.04
25:BA:2209:C:H4'	28:BD:150:LYS:HB3	1.36	1.04
25:BA:2840:C:H5''	39:BQ:53:HIS:HD2	1.20	1.04
35:BM:16:ILE:HD11	35:BM:52:VAL:HG23	1.39	1.04
43:BU:78:LYS:HG3	43:BU:84:LYS:HG3	1.36	1.04
1:AA:1540:U:H2'	1:AA:1541:U:C6	1.92	1.04
1:AA:1513:A:H2'	1:AA:1514:C:C6	1.92	1.04
2:AC:75:C:H41	25:BA:2451:A:H4'	1.19	1.04
13:AM:60:ARG:N	13:AM:60:ARG:HH11	1.55	1.04
25:BA:1158:C:H5'	50:B2:31:LEU:HB3	1.36	1.04
51:B3:28:LYS:HE3	51:B3:29:PRO:HD2	1.38	1.04
25:BA:2093:G:H5'	33:BK:25:TYR:CD1	1.91	1.04
39:BQ:10:LEU:HD13	39:BQ:21:TYR:OH	1.57	1.04
25:BA:2840:C:H5''	39:BQ:53:HIS:CD2	1.92	1.04
6:AF:67:THR:HA	6:AF:102:ASN:O	1.57	1.04
11:AK:18:ARG:CA	11:AK:18:ARG:HH11	1.70	1.04
19:AS:43:LYS:HA	19:AS:48:TRP:CE3	1.92	1.04
25:BA:1444(A):A:H61	25:BA:1462:C:P	1.80	1.04
25:BA:2122:U:H4'	27:BC:166:ASP:HB2	1.36	1.04
25:BA:2563:U:H4'	36:BN:28:SER:CB	1.87	1.04
25:BA:431:U:H3'	25:BA:431:U:H6	1.17	1.04
25:BA:974:G:H3'	25:BA:974(A):C:H5''	1.37	1.04
25:BA:1799:G:H5''	28:BD:264:LYS:HE2	1.36	1.04
29:BE:100:GLU:H	29:BE:172:VAL:HG22	1.17	1.04
37:BO:121:LYS:HB2	37:BO:137:LYS:HG3	1.40	1.04
34:BL:10:LEU:HD12	34:BL:12:LEU:HD11	1.06	1.04
46:BX:86:ARG:HA	46:BX:91:GLU:HB3	1.35	1.04
7:AG:59:ARG:NH1	7:AG:59:ARG:HA	1.71	1.04
21:AU:58:LEU:HB3	21:AU:62:GLU:HB3	1.37	1.04
25:BA:1451:C:H2'	25:BA:1457:A:H61	1.21	1.04
25:BA:311:A:H2	25:BA:331:A:H5''	1.18	1.04
36:BN:39:ILE:HG12	36:BN:59:LYS:HZ1	1.22	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:137:TYR:O	38:BP:138:ASP:OD1	1.73	1.04
1:AA:872:A:H2'	1:AA:873:A:H5''	1.06	1.04
16:AP:16:ASP:HB2	16:AP:30:ALA:HB1	1.39	1.04
51:B3:43:TYR:HA	51:B3:61:ARG:HH22	1.05	1.04
54:B6:17:GLY:N	54:B6:21:ARG:HH22	1.56	1.04
25:BA:1559:G:N1	25:BA:1560:G:H4'	1.72	1.04
25:BA:2882:A:OP1	39:BQ:96:ARG:HD3	1.58	1.04
25:BA:459:U:OP1	54:B6:40:TRP:HA	1.56	1.04
28:BD:178:PRO:O	28:BD:180:GLY:N	1.90	1.04
43:BU:62:LEU:HD12	43:BU:96:ILE:HB	1.39	1.04
44:BV:11:ARG:NH2	44:BV:11:ARG:HB3	1.73	1.04
1:AA:1394:A:N7	1:AA:1501:C:H1'	1.73	1.03
1:AA:279:A:H5'	1:AA:280:C:H3'	1.40	1.03
7:AG:98:GLU:HA	7:AG:103:ASN:ND2	1.73	1.03
21:AU:26:LEU:HB2	21:AU:42:ARG:NH1	1.73	1.03
25:BA:2239:G:H5'	25:BA:2240:C:OP2	1.58	1.03
25:BA:2415:G:H5''	37:BO:61:ARG:HB2	1.38	1.03
28:BD:148:GLU:HB2	28:BD:154:LYS:HZ2	1.13	1.03
33:BK:32:PRO:HD2	33:BK:33:ARG:HD3	1.36	1.03
33:BK:37:VAL:HG12	33:BK:38:LEU:H	1.14	1.03
42:BT:89:GLU:OE1	43:BU:50:PRO:HB3	1.55	1.03
44:BV:16:LYS:HZ2	44:BV:16:LYS:N	1.56	1.03
46:BX:72:VAL:HG12	46:BX:74:PRO:HD3	1.32	1.03
48:BZ:23:VAL:HA	48:BZ:38:VAL:HG12	1.39	1.03
1:AA:932:C:H5''	10:AJ:3:ARG:HD2	1.39	1.03
25:BA:1406:U:H2'	25:BA:1407:C:H6	1.17	1.03
25:BA:2063:C:H1'	25:BA:2451:A:C2	1.92	1.03
25:BA:2848:G:N2	25:BA:2867:G:H1'	1.72	1.03
29:BE:165:VAL:HG12	29:BE:166:THR:H	1.23	1.03
33:BK:87:LYS:HB3	33:BK:121:LYS:HB2	1.40	1.03
32:BH:25:LYS:NZ	32:BH:32:GLU:HB2	1.72	1.03
6:AF:11:ARG:HG3	6:AF:16:ARG:HE	1.20	1.03
7:AG:31:CYS:SG	7:AG:33:MET:SD	2.55	1.03
25:BA:2371:G:H5'	53:B5:45:LYS:HB3	1.07	1.03
25:BA:2015:A:N7	52:B4:6:VAL:HG21	1.73	1.03
25:BA:38:A:H1'	30:BF:48:THR:HB	1.40	1.03
38:BP:66:ILE:HG22	38:BP:67:ARG:N	1.72	1.03
25:BA:1014:U:O2'	25:BA:1015:G:H5'	1.59	1.03
25:BA:1139:G:O2'	25:BA:1143:A:H5''	1.56	1.03
25:BA:1851:U:H2'	25:BA:1852:C:C6	1.93	1.03
25:BA:2720:U:H3'	25:BA:2721:A:H8	1.16	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:865:C:H42	25:BA:909:A:N6	1.56	1.03
38:BP:51:ARG:O	38:BP:55:VAL:HG23	1.59	1.03
43:BU:40:LEU:HB3	43:BU:51:VAL:HG13	1.40	1.03
45:BW:73:ARG:HB3	45:BW:73:ARG:HH11	1.22	1.03
46:BX:52:SER:HB3	46:BX:56:PRO:HB2	1.36	1.03
4:A1:13:A:OP2	4:A1:13:A:H8	1.38	1.03
25:BA:245:G:N2	25:BA:254:G:H1'	1.74	1.03
25:BA:602:G:O3'	25:BA:603:A:H4'	1.48	1.03
25:BA:748:G:H5'	25:BA:749:C:OP2	1.56	1.03
26:BB:103:U:H2'	26:BB:104:A:H5'	1.35	1.03
28:BD:146:GLU:HB2	28:BD:153:ALA:HA	1.33	1.03
36:BN:67:LYS:N	36:BN:67:LYS:HE2	1.73	1.03
1:AA:1251:A:H2'	1:AA:1252:A:C8	1.92	1.03
1:AA:372:C:N4	1:AA:389:A:H62	1.55	1.03
5:AE:91:PRO:HG3	5:AE:154:LEU:HB3	1.03	1.03
7:AG:20:TYR:HB2	7:AG:27:TYR:CA	1.88	1.03
25:BA:1637:A:H4'	25:BA:2711:A:O2'	1.57	1.03
25:BA:1841:U:H2'	25:BA:1842:G:C8	1.94	1.03
25:BA:428:A:H3'	25:BA:429:A:H8	1.23	1.03
25:BA:957:A:C2	25:BA:2459:A:H5''	1.93	1.03
37:BO:76:LYS:HA	37:BO:101:VAL:HG11	1.41	1.03
46:BX:82:PRO:HG3	46:BX:97:ARG:H	1.22	1.03
1:AA:173:U:H1'	1:AA:197:A:C2	1.93	1.03
25:BA:1206:G:H2'	25:BA:1207:C:Cl'	1.87	1.03
25:BA:1681:G:N2	25:BA:1762:A:H3'	1.72	1.03
25:BA:530:G:N2	25:BA:2021:C:H3'	1.74	1.03
25:BA:2383:G:OP2	55:B7:39:LYS:HD3	1.56	1.03
25:BA:2658:C:C2'	25:BA:2659:G:H5'	1.89	1.03
25:BA:292:C:H3'	25:BA:293:U:N3	1.72	1.03
25:BA:575:A:O2'	25:BA:576:U:H5'	1.58	1.03
25:BA:99:U:H5'	25:BA:101:G:H5'	1.40	1.03
42:BT:50:ARG:HH11	42:BT:50:ARG:CB	1.71	1.03
43:BU:3:ALA:HA	43:BU:44:LYS:HZ1	1.20	1.03
1:AA:1202:G:H21	1:AA:1203:C:H1'	1.22	1.03
1:AA:173:U:C2	1:AA:197:A:H2	1.77	1.03
1:AA:872:A:C2'	1:AA:873:A:H5''	1.87	1.03
13:AM:45:ARG:HH11	13:AM:45:ARG:HB3	1.16	1.03
21:AU:52:PRO:HG2	21:AU:54:ARG:HB3	1.40	1.03
25:BA:1784:A:O2'	25:BA:1785:A:OP2	1.76	1.03
6:AF:116:VAL:O	6:AF:119:ARG:HB3	1.57	1.03
6:AF:91:LEU:HD11	6:AF:99:VAL:N	1.73	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:79:GLU:HB3	8:AH:92:LYS:HA	1.40	1.03
11:AK:67:PRO:HD2	11:AK:77:GLU:H	1.21	1.03
25:BA:1996:C:H6	25:BA:1996:C:H5''	1.19	1.03
25:BA:2092:U:C5	25:BA:2227:A:N6	2.27	1.03
25:BA:373:U:H4'	25:BA:374:A:H8	1.24	1.03
25:BA:969:U:H2'	25:BA:970:C:O4'	1.59	1.03
44:BV:12:ILE:H	44:BV:12:ILE:HD13	1.19	1.03
1:AA:979:C:N4	17:AQ:18:VAL:HB	1.74	1.03
49:B1:51:GLN:HA	49:B1:54:ARG:HD2	1.38	1.03
53:B5:27:LYS:HG2	53:B5:29:ASN:HD21	1.22	1.03
25:BA:1154:G:O2'	25:BA:1155:A:H5'	1.59	1.03
25:BA:2689:U:H5'	25:BA:2690:C:H5'	1.40	1.03
31:BG:163:ALA:HB1	31:BG:169:ALA:HA	1.41	1.03
43:BU:15:GLU:HA	43:BU:100:ARG:NH1	1.73	1.03
33:BK:109:ILE:HG12	33:BK:113:ARG:NH2	1.72	1.03
5:AE:185:ILE:HG22	5:AE:199:TYR:CB	1.89	1.02
10:AJ:69:VAL:HG11	10:AJ:104:LEU:HD21	1.39	1.02
11:AK:97:VAL:HG22	11:AK:98:LYS:H	1.20	1.02
14:AN:101:SER:O	14:AN:103:LEU:HG	1.59	1.02
19:AS:44:THR:HG23	19:AS:45:THR:H	1.18	1.02
25:BA:2841:C:H2'	25:BA:2842:G:H8	1.21	1.02
40:BR:99:LYS:O	40:BR:102:ALA:HB3	1.59	1.02
46:BX:83:THR:HG22	46:BX:84:ARG:HD2	1.41	1.02
19:AS:49:LEU:HD11	19:AS:51:VAL:HG22	1.38	1.02
21:AU:66:LEU:HD12	21:AU:67:ALA:N	1.74	1.02
51:B3:19:GLY:HA3	51:B3:30:GLU:O	1.57	1.02
51:B3:68:ARG:CB	51:B3:68:ARG:HH11	1.72	1.02
54:B6:48:LYS:HG3	54:B6:49:ARG:N	1.72	1.02
25:BA:1992:G:H1'	25:BA:1993:U:O4	1.59	1.02
25:BA:2124:G:H4'	27:BC:42:GLU:HG3	1.36	1.02
25:BA:2289:G:H5'	25:BA:2384:G:H1'	1.37	1.02
25:BA:2407:G:N2	25:BA:2408:U:H1'	1.74	1.02
25:BA:26:G:N1	25:BA:27:G:N2	2.07	1.02
29:BE:167:VAL:HG23	29:BE:189:PRO:HB3	1.36	1.02
31:BG:163:ALA:HB2	31:BG:172:LEU:HD23	1.38	1.02
1:AA:1399:C:N4	1:AA:1502:A:N7	2.05	1.02
7:AG:12:CYS:HA	7:AG:19:LEU:CB	1.90	1.02
51:B3:27:THR:HG22	51:B3:28:LYS:H	1.19	1.02
25:BA:2278:A:H62	48:BZ:14:ARG:HB3	0.86	1.02
25:BA:2416:C:H2'	25:BA:2417:C:H5''	1.37	1.02
36:BN:31:LYS:HB3	36:BN:32:TYR:CE2	1.93	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:114:ILE:HG21	37:BO:134:ALA:HB2	1.37	1.02
1:AA:775:G:H2'	1:AA:776:G:H8	1.23	1.02
15:AO:28:LYS:HE3	15:AO:33:ARG:HH12	1.22	1.02
16:AP:10:PRO:CG	16:AP:18:ALA:HB1	1.89	1.02
20:AT:81:ARG:HG3	20:AT:84:LEU:HD21	1.38	1.02
25:BA:1609:A:N7	25:BA:1616:A:N3	2.08	1.02
25:BA:1965:C:H2'	25:BA:1966:A:N7	1.74	1.02
25:BA:1993:U:H3'	25:BA:1993:U:H6	1.22	1.02
25:BA:217:G:H2'	25:BA:218:A:H5'	1.35	1.02
27:BC:30:LYS:HZ1	27:BC:182:PRO:HD3	1.14	1.02
28:BD:63:ARG:HG2	28:BD:65:ILE:HD11	1.41	1.02
31:BG:47:LYS:HB2	31:BG:53:LEU:CD1	1.87	1.02
38:BP:67:ARG:CZ	38:BP:103:MET:HB3	1.90	1.02
38:BP:37:LEU:HD11	38:BP:130:LYS:HB2	1.40	1.02
1:AA:942:G:H21	12:AL:124:GLN:NE2	1.56	1.02
37:BO:56:SER:OG	55:B7:27:THR:HG21	1.59	1.02
25:BA:2392:A:H2'	25:BA:2393:A:H5'	1.39	1.02
25:BA:2503:A:H4'	25:BA:2504:U:OP1	1.58	1.02
25:BA:296:C:H2'	25:BA:297:C:H6	1.22	1.02
25:BA:1800:C:OP1	28:BD:263:ARG:HD2	1.58	1.02
29:BE:165:VAL:HG12	29:BE:166:THR:N	1.70	1.02
31:BG:33:ARG:NH2	31:BG:34:LEU:HA	1.74	1.02
36:BN:11:ALA:CB	36:BN:97:ARG:HH12	1.72	1.02
42:BT:112:ARG:HH12	43:BU:50:PRO:CG	1.72	1.02
1:AA:968:A:H4'	1:AA:969:A:OP2	1.58	1.02
16:AP:88:ARG:HG2	16:AP:98:VAL:HG12	1.37	1.02
9:AI:98:LEU:HD21	21:AU:28:GLU:HA	1.40	1.02
25:BA:2126:A:H1'	25:BA:2162:G:N2	1.74	1.02
25:BA:880:G:H2'	25:BA:881:G:H4'	1.41	1.02
30:BF:12:LEU:HD22	30:BF:142:TRP:HZ3	1.24	1.02
30:BF:30:PRO:O	30:BF:33:LEU:HG	1.58	1.02
37:BO:117:GLU:HG2	37:BO:118:GLY:H	1.21	1.02
41:BS:53:ARG:HB2	41:BS:65:LYS:O	1.60	1.02
36:BN:122:LEU:CB	41:BS:71:GLY:HA3	1.89	1.02
43:BU:17:GLY:HA3	43:BU:19:LYS:NZ	1.75	1.02
33:BK:81:VAL:HG21	33:BK:144:VAL:HG13	1.40	1.02
1:AA:571:U:C3'	1:AA:572:A:H5''	1.89	1.02
54:B6:48:LYS:CG	54:B6:49:ARG:H	1.66	1.02
25:BA:1264:G:N7	25:BA:1265:A:C8	2.28	1.02
25:BA:1488:G:C2'	25:BA:1489:U:H5'	1.89	1.02
25:BA:364:C:H2'	25:BA:365:C:C6	1.93	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:196:VAL:HG12	28:BD:197:GLY:N	1.64	1.02
28:BD:206:LEU:N	28:BD:206:LEU:HD22	1.74	1.02
30:BF:201:VAL:HG12	30:BF:205:ARG:HH21	1.22	1.02
33:BK:2:LYS:O	33:BK:38:LEU:HD22	1.58	1.02
36:BN:2:ILE:HD12	36:BN:32:TYR:CD1	1.94	1.02
40:BR:36:TYR:OH	40:BR:50:SER:HB2	1.58	1.02
25:BA:2320:A:H62	40:BR:4:LEU:HD13	1.22	1.02
43:BU:6:LYS:HD3	43:BU:10:LYS:CG	1.89	1.02
7:AG:83:SER:HA	7:AG:89:THR:OG1	1.57	1.02
11:AK:126:LYS:HD2	11:AK:127:LEU:N	1.74	1.02
14:AN:78:GLN:O	14:AN:104:GLN:HB3	1.60	1.02
25:BA:2749:A:H4'	32:BH:62:LYS:HG3	1.38	1.02
25:BA:653:A:H62	25:BA:655:A:H1'	1.24	1.02
25:BA:728:G:C6	25:BA:762:U:H2'	1.94	1.02
33:BK:39:ALA:O	33:BK:43:ASN:HB2	1.57	1.02
46:BX:12:THR:HG23	46:BX:73:ARG:HG3	1.40	1.02
47:BY:98:MET:O	47:BY:126:VAL:HA	1.59	1.02
33:BK:132:PRO:HD3	33:BK:138:ILE:HG22	1.40	1.02
33:BK:79:ILE:HB	33:BK:144:VAL:HG23	1.41	1.02
25:BA:1066:U:H1'	25:BA:1069:A:OP2	1.58	1.02
6:AF:157:ILE:CG1	6:AF:164:ARG:HG2	1.90	1.02
7:AG:47:ARG:NH1	7:AG:47:ARG:HB2	1.73	1.02
1:AA:713:G:H21	1:AA:777:A:H1'	1.25	1.02
25:BA:1418:G:H1'	25:BA:1581:G:N2	1.75	1.02
25:BA:221:A:H4'	25:BA:222:A:H5'	1.04	1.02
25:BA:477:A:C2'	25:BA:478:A:H8	1.72	1.02
25:BA:52:A:H2'	25:BA:53:A:H8	1.22	1.02
25:BA:637:A:C2	25:BA:651:G:H5''	1.95	1.02
25:BA:640:C:N4	25:BA:647:G:H1	1.58	1.02
33:BK:5:LEU:HB3	33:BK:8:PRO:HD2	1.42	1.02
41:BS:64:ARG:CD	41:BS:65:LYS:H	1.73	1.02
42:BT:46:ALA:HA	42:BT:49:HIS:ND1	1.74	1.02
25:BA:2602:A:O2'	48:BZ:1:MET:O	1.76	1.02
1:AA:173:U:C2	1:AA:197:A:C2	2.48	1.02
5:AE:222:ILE:HD13	5:AE:226:ARG:HH21	1.23	1.02
25:BA:1742:C:H2'	25:BA:1743:G:O4'	1.60	1.02
25:BA:2333:A:H1'	25:BA:2335:A:N3	1.75	1.02
25:BA:92:G:OP2	25:BA:92:G:H3'	1.58	1.02
36:BN:63:VAL:HG22	36:BN:82:ASN:OD1	1.59	1.02
38:BP:23:GLY:HA3	38:BP:101:ARG:NH2	1.75	1.02
42:BT:17:ILE:HG23	42:BT:20:LEU:HD12	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:25:LYS:HZ3	32:BH:32:GLU:HB2	0.89	1.02
1:AA:381:C:H2'	1:AA:382:A:C8	1.93	1.01
5:AE:155:LEU:CB	5:AE:159:PRO:HG3	1.90	1.01
21:AU:47:THR:HB	21:AU:49:LYS:HZ1	1.22	1.01
25:BA:279:C:N4	25:BA:359:A:H1'	1.75	1.01
25:BA:5:A:H2'	25:BA:6:A:H8	1.24	1.01
25:BA:746:A:H1'	25:BA:748:G:N2	1.75	1.01
32:BH:28:GLY:HA3	32:BH:79:VAL:HB	1.41	1.01
33:BK:25:TYR:O	33:BK:29:TYR:HB2	1.60	1.01
25:BA:636:G:N2	37:BO:75:ILE:HG23	1.73	1.01
44:BV:16:LYS:NZ	44:BV:16:LYS:H	1.58	1.01
47:BY:151:HIS:HB3	47:BY:170:THR:H	1.23	1.01
23:AW:84:LEU:O	23:AW:88:VAL:HG23	1.59	1.01
25:BA:1827:C:H1'	25:BA:1970:A:H2	1.18	1.01
25:BA:2848:G:N2	25:BA:2867:G:N3	2.08	1.01
25:BA:729:G:H2'	25:BA:730:C:C4'	1.89	1.01
29:BE:105:THR:HB	29:BE:166:THR:CB	1.89	1.01
39:BQ:22:ARG:HD3	39:BQ:69:ASP:O	1.58	1.01
44:BV:11:ARG:HB2	44:BV:98:LYS:CE	1.89	1.01
47:BY:104:PHE:CZ	47:BY:120:ILE:HG23	1.95	1.01
50:B2:7:LYS:HD2	50:B2:33:GLN:O	1.59	1.01
25:BA:1111:A:O2'	25:BA:1112:G:H1'	1.58	1.01
25:BA:1789:A:H3'	25:BA:1790:C:O4'	1.60	1.01
40:BR:62:LYS:HD2	40:BR:64:GLU:HB3	1.38	1.01
1:AA:449:C:H2'	1:AA:450:G:O4'	1.60	1.01
7:AG:22:LYS:HB3	7:AG:26:CYS:HB3	1.42	1.01
15:AO:56:ALA:HB2	15:AO:70:ILE:HG12	1.42	1.01
50:B2:3:ARG:HH11	50:B2:3:ARG:HB3	0.86	1.01
25:BA:1024:G:N2	25:BA:1139:G:H1	1.59	1.01
25:BA:265:A:H3'	25:BA:265:A:C8	1.95	1.01
29:BE:5:LEU:HD13	29:BE:197:ILE:HA	1.40	1.01
35:BM:22:THR:CG2	35:BM:25:ARG:HD3	1.90	1.01
43:BU:6:LYS:CD	43:BU:10:LYS:HG2	1.91	1.01
1:AA:1339:A:H2'	1:AA:1340:A:H5'	1.40	1.01
1:AA:573:A:H2'	1:AA:574:A:C8	1.95	1.01
15:AO:59:ARG:HA	15:AO:64:TYR:O	1.59	1.01
16:AP:71:ARG:HB3	16:AP:71:ARG:HH11	1.26	1.01
6:AF:30:ARG:HB3	17:AQ:36:PHE:O	1.59	1.01
50:B2:6:VAL:HG23	50:B2:35:ARG:HG3	1.42	1.01
25:BA:1657:C:OP1	29:BE:136:ARG:HD3	1.61	1.01
25:BA:1841:U:H2'	25:BA:1842:G:H8	1.21	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2447:G:C8	25:BA:2500:U:C3'	2.43	1.01
25:BA:792:G:H21	25:BA:2072:G:H1'	1.25	1.01
25:BA:810:U:O2	37:BO:29:LYS:HA	1.59	1.01
25:BA:957:A:N7	25:BA:959:A:C8	2.26	1.01
25:BA:2312:U:O4'	31:BG:43:LEU:HD21	1.61	1.01
32:BH:149:ARG:HD3	32:BH:164:TYR:CD1	1.96	1.01
37:BO:59:LEU:N	37:BO:60:MET:HE2	1.75	1.01
1:AA:1064:G:H1'	1:AA:1066:C:C4	1.95	1.01
1:AA:173:U:C1'	1:AA:197:A:C2	2.43	1.01
10:AJ:79:ARG:CZ	10:AJ:84:ASN:HB3	1.89	1.01
29:BE:118:LYS:HE2	29:BE:118:LYS:C	1.81	1.01
41:BS:109:GLU:HB3	41:BS:114:LEU:HD21	1.43	1.01
1:AA:47:C:H4'	1:AA:48:C:C5'	1.89	1.01
1:AA:792:A:H4'	1:AA:793:U:OP1	1.59	1.01
21:AU:46:GLU:HB3	21:AU:85:LEU:HD13	1.39	1.01
25:BA:1206:G:H2'	25:BA:1207:C:H1'	1.40	1.01
25:BA:1307:A:H4'	25:BA:1379:A:H62	1.12	1.01
25:BA:1709:U:H2'	25:BA:1710:C:C6	1.94	1.01
25:BA:280:C:OP2	25:BA:280:C:H6	1.44	1.01
47:BY:127:LYS:HB3	47:BY:162:GLU:O	1.60	1.01
5:AE:222:ILE:HD13	5:AE:226:ARG:NH2	1.75	1.01
6:AF:138:VAL:HG12	6:AF:170:GLN:HE21	1.24	1.01
7:AG:55:ALA:O	7:AG:59:ARG:HG2	1.61	1.01
25:BA:27:G:C2	25:BA:512:G:H2'	1.95	1.01
25:BA:374:A:H3'	25:BA:375:C:H6	1.26	1.01
25:BA:704:G:H22	25:BA:726:G:H1'	1.20	1.01
25:BA:911:A:H8	25:BA:2264:C:C1'	1.74	1.01
25:BA:943:U:OP1	25:BA:943:U:O4'	1.78	1.01
26:BB:75:G:H4'	47:BY:36:LYS:HZ3	1.24	1.01
27:BC:64:LEU:HD13	27:BC:188:ASN:HD21	1.26	1.01
27:BC:190:ARG:HH11	27:BC:190:ARG:HG3	1.25	1.01
25:BA:1819:A:H5''	28:BD:178:PRO:CB	1.91	1.01
28:BD:55:GLY:H	28:BD:219:PRO:HD3	1.25	1.01
29:BE:51:PHE:CZ	29:BE:75:VAL:HG23	1.95	1.01
30:BF:133:ASN:HD21	30:BF:162:LEU:HD13	1.25	1.01
30:BF:46:ARG:HE	30:BF:47:GLY:H	1.02	1.01
38:BP:51:ARG:CB	38:BP:51:ARG:HH11	1.72	1.01
26:BB:89(A):A:H2'	26:BB:90:C:H5'	1.41	1.01
1:AA:959:A:H3'	1:AA:960:U:H5''	1.42	1.01
51:B3:47:GLN:HA	51:B3:52:THR:OG1	1.59	1.01
53:B5:7:ILE:HG22	53:B5:8:LYS:H	1.25	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1007:C:H4'	35:BM:108:PRO:HD3	1.40	1.01
25:BA:1188:U:O2	25:BA:1188:U:H2'	1.59	1.01
25:BA:1400:G:H2'	25:BA:1401:G:H8	1.25	1.01
25:BA:1515:C:H6	25:BA:1515:C:P	1.81	1.01
25:BA:1800:C:C6	25:BA:1800:C:H3'	1.96	1.01
25:BA:2209:C:C2'	25:BA:2210:G:H3'	1.89	1.01
25:BA:68:G:H2'	25:BA:69:C:C6	1.96	1.01
25:BA:1568:G:OP1	28:BD:61:LEU:HG	1.59	1.01
31:BG:33:ARG:HD2	31:BG:34:LEU:N	1.76	1.01
41:BS:18:ASP:OD1	41:BS:81:PRO:HG3	1.61	1.01
1:AA:1180:A:H2'	1:AA:1181:G:H5'	1.40	1.01
11:AK:38:ILE:HG13	11:AK:118:VAL:HG11	1.39	1.01
18:AR:29:VAL:HG21	18:AR:81:LEU:HD11	1.38	1.01
53:B5:19:ARG:HH12	53:B5:41:PRO:CG	1.74	1.01
25:BA:1044:G:C4'	25:BA:1047:G:H1'	1.90	1.01
25:BA:2577:A:H2	52:B4:5:PRO:HB3	1.26	1.01
25:BA:259:G:H1'	25:BA:621:A:O2'	1.60	1.01
25:BA:388:G:C2'	25:BA:390:A:N7	2.24	1.01
29:BE:119:ARG:CZ	29:BE:155:LYS:HB3	1.90	1.01
41:BS:54:ARG:H	41:BS:64:ARG:HB3	1.25	1.01
21:AU:55:ARG:HB3	21:AU:55:ARG:NH1	1.76	1.00
50:B2:17:LYS:HA	50:B2:20:LYS:HD3	1.43	1.00
25:BA:1746:G:H2'	25:BA:1747:G:C8	1.96	1.00
26:BB:110:G:H2'	26:BB:111:U:O4'	1.60	1.00
25:BA:1799:G:H8	28:BD:268:ARG:HH11	1.07	1.00
31:BG:181:ARG:HH21	31:BG:181:ARG:HA	1.23	1.00
31:BG:47:LYS:HE2	31:BG:73:ALA:HB2	1.43	1.00
36:BN:18:LYS:CE	36:BN:44:LYS:HD2	1.91	1.00
38:BP:36:ALA:O	38:BP:37:LEU:HD23	1.60	1.00
40:BR:73:LEU:HA	40:BR:76:LYS:HD3	1.42	1.00
41:BS:55:ASN:HD22	41:BS:57:PHE:HE2	1.09	1.00
44:BV:72:LYS:HD2	44:BV:108:GLY:HA3	1.43	1.00
1:AA:1519:A:H2'	1:AA:1520:G:H5'	1.42	1.00
11:AK:18:ARG:HA	11:AK:18:ARG:HH11	1.22	1.00
16:AP:14:ARG:HA	16:AP:44:ARG:HA	1.40	1.00
56:B8:9:ARG:HD3	56:B8:14:CYS:O	1.60	1.00
25:BA:610:C:H2'	25:BA:611:C:C6	1.95	1.00
28:BD:226:MET:HB3	28:BD:227:ASN:HD22	1.19	1.00
31:BG:74:LYS:HE2	31:BG:75:LYS:HE3	1.03	1.00
36:BN:59:LYS:HE2	36:BN:59:LYS:H	1.25	1.00
33:BK:75:LEU:HD13	33:BK:76:THR:H	1.23	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:783:C:H2'	1:AA:784:C:H5'	1.42	1.00
1:AA:928:G:H4'	1:AA:1533:C:C1'	1.90	1.00
23:AW:19:SER:O	23:AW:23:ARG:HB3	1.61	1.00
25:BA:1405:U:H2'	25:BA:1406:U:C6	1.96	1.00
25:BA:1819:A:H5''	28:BD:178:PRO:HB2	1.41	1.00
25:BA:2528:U:O2'	25:BA:2529:G:H3'	1.59	1.00
38:BP:43:THR:HA	38:BP:94:VAL:CG1	1.91	1.00
50:B2:19:GLN:NE2	50:B2:50:VAL:HA	1.75	1.00
25:BA:2596:U:C2'	28:BD:242:ARG:CZ	2.37	1.00
30:BF:6:VAL:N	30:BF:20:LEU:HD13	1.76	1.00
6:AF:126:ARG:HB3	6:AF:128:PHE:CE1	1.95	1.00
7:AG:141:ARG:HD2	7:AG:142:PRO:HD2	1.42	1.00
7:AG:40:PRO:O	7:AG:44:GLY:HA3	1.59	1.00
13:AM:7:LYS:O	13:AM:97:GLU:HB2	1.61	1.00
53:B5:30:THR:HB	53:B5:31:PRO:CD	1.91	1.00
25:BA:1439:A:H2'	25:BA:1440:G:O4'	1.60	1.00
25:BA:684:G:H2'	25:BA:687:C:N4	1.74	1.00
25:BA:729:G:H2'	25:BA:730:C:H4'	1.42	1.00
28:BD:69:ARG:NH2	28:BD:130:ALA:HB2	1.75	1.00
25:BA:2637:U:H5'	29:BE:81:ILE:HD11	1.41	1.00
30:BF:161:GLU:OE2	30:BF:161:GLU:HA	1.61	1.00
29:BE:110:GLY:O	39:BQ:4:LEU:HD13	1.60	1.00
1:AA:1249:C:O2	12:AL:70:LYS:HE2	1.61	1.00
1:AA:409:G:H5''	7:AG:24:GLU:OE1	1.62	1.00
1:AA:607:A:C2	1:AA:608:A:H1'	1.97	1.00
10:AJ:111:ARG:HD2	10:AJ:123:GLU:OE2	1.62	1.00
13:AM:24:VAL:HG22	13:AM:34:VAL:HG11	1.38	1.00
25:BA:1923:U:H2'	25:BA:1924:C:C6	1.95	1.00
25:BA:2078:C:H2'	25:BA:2079:U:H6	1.23	1.00
3:AD:76:A:H2'	25:BA:2432:A:O2'	1.61	1.00
25:BA:2712:U:H2'	25:BA:2712(A):A:H5''	1.42	1.00
25:BA:281:G:N3	25:BA:281:G:H2'	1.76	1.00
25:BA:279:C:N4	25:BA:359:A:N3	2.09	1.00
41:BS:65:LYS:HG2	41:BS:75:ILE:HB	1.40	1.00
25:BA:566:U:H5''	43:BU:82:ARG:HH22	1.23	1.00
10:AJ:126:ASP:HB3	10:AJ:131:LYS:O	1.62	1.00
1:AA:328:C:H4'	1:AA:329:A:O5'	1.62	1.00
1:AA:817:C:H2'	1:AA:817:C:O2	1.59	1.00
9:AI:4:TYR:CE1	9:AI:72:VAL:HG11	1.96	1.00
11:AK:97:VAL:HG22	11:AK:98:LYS:N	1.76	1.00
25:BA:2319:G:H4'	25:BA:2320:A:OP1	1.59	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:100:ILE:HD11	27:BC:123:VAL:HG22	1.44	1.00
30:BF:164:ARG:HB2	30:BF:177:ALA:HB2	1.44	1.00
35:BM:69:GLN:C	35:BM:70:LYS:HD3	1.82	1.00
2:AC:14:A:N6	2:AC:21:A:H2	1.58	1.00
6:AF:150:LYS:HB2	6:AF:173:VAL:HG21	1.43	1.00
13:AM:25:GLU:HA	13:AM:28:ARG:HD2	1.43	1.00
18:AR:54:ARG:HD3	18:AR:55:GLY:N	1.75	1.00
25:BA:1527:G:H1'	25:BA:1528:A:C2	1.96	1.00
25:BA:1204:A:N1	30:BF:188:ARG:HA	1.74	1.00
30:BF:53:THR:HA	30:BF:87:GLY:HA3	1.40	1.00
37:BO:27:HIS:NE2	43:BU:82:ARG:O	1.93	1.00
41:BS:70:VAL:HB	41:BS:74:ARG:HH11	1.24	1.00
3:AD:73:A:H2'	3:AD:74:C:H5''	1.42	1.00
14:AN:92:GLU:OE2	14:AN:96:ARG:HB2	1.62	1.00
25:BA:1203:G:C6	25:BA:1240:U:C2	2.49	1.00
25:BA:1312:U:H3'	25:BA:1313:U:C5	1.97	1.00
25:BA:792:G:N2	25:BA:2072:G:H1'	1.77	1.00
25:BA:848:G:N2	25:BA:931:G:N7	2.09	1.00
26:BB:6:C:H4'	26:BB:28:C:H5'	1.42	1.00
29:BE:100:GLU:O	29:BE:172:VAL:HG13	1.62	1.00
36:BN:21:CYS:HA	36:BN:41:ALA:CB	1.92	1.00
36:BN:97:ARG:HH11	36:BN:98:VAL:C	1.64	1.00
37:BO:9:ASN:HB2	37:BO:10:PRO:CD	1.90	1.00
39:BQ:26:LYS:HE2	39:BQ:70:LEU:HA	1.43	1.00
39:BQ:90:ARG:HB3	39:BQ:94:TYR:HE2	1.24	1.00
26:BB:12:C:C6	48:BZ:74:ARG:HB2	1.96	1.00
1:AA:1124:G:N2	1:AA:1126:U:H3	1.58	1.00
1:AA:47:C:H4'	1:AA:48:C:H5'	1.41	1.00
6:AF:29:TYR:HE1	13:AM:65:LEU:HD11	1.22	1.00
15:AO:28:LYS:HD2	15:AO:33:ARG:HH22	1.21	1.00
51:B3:18:CYS:CB	51:B3:33:VAL:HG21	1.92	1.00
25:BA:1406:U:H2'	25:BA:1407:C:C6	1.97	1.00
25:BA:1780:A:H3'	25:BA:1781:C:C5'	1.91	1.00
25:BA:739:G:C2'	25:BA:1784:A:N1	2.25	1.00
25:BA:528:A:N6	25:BA:2042:A:N7	2.10	1.00
25:BA:2120:G:H21	27:BC:167:LYS:NZ	1.59	1.00
25:BA:610:C:H2'	25:BA:611:C:H6	1.27	1.00
28:BD:142:VAL:O	28:BD:163:ALA:HB3	1.61	1.00
30:BF:130:ALA:CB	30:BF:142:TRP:HB2	1.91	1.00
41:BS:50:ILE:HG22	41:BS:67:SER:C	1.82	1.00
43:BU:30:GLY:O	43:BU:33:VAL:HG23	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1157:A:H1'	1:AA:1181:G:H21	1.22	0.99
1:AA:1344:C:H5'	12:AL:120:ARG:O	1.62	0.99
18:AR:34:LEU:HG	18:AR:35:ARG:N	1.67	0.99
51:B3:38:LYS:HD3	51:B3:39:CYS:H	1.27	0.99
52:B4:11:THR:OG1	52:B4:15:ARG:HB3	1.62	0.99
55:B7:10:ALA:HB1	55:B7:64:TYR:CE2	1.97	0.99
55:B7:7:HIS:O	55:B7:11:LYS:HG3	1.62	0.99
25:BA:15:G:O2'	25:BA:16:G:H5'	1.59	0.99
25:BA:1785:A:H2'	25:BA:1786:A:C5	1.96	0.99
25:BA:355:G:H2'	25:BA:356:G:C8	1.95	0.99
25:BA:627:A:H4'	25:BA:627:A:OP2	1.59	0.99
28:BD:55:GLY:H	28:BD:219:PRO:CD	1.73	0.99
29:BE:9:VAL:HG12	29:BE:192:ASN:HD22	1.22	0.99
29:BE:197:ILE:HB	29:BE:199:ARG:NH2	1.76	0.99
29:BE:54:GLN:HB3	29:BE:57:LYS:HZ2	1.22	0.99
47:BY:109:ALA:H	47:BY:144:LEU:HD12	1.26	0.99
1:AA:1435:G:H2'	1:AA:1436:U:C5	1.95	0.99
5:AE:68:ILE:HG13	5:AE:90:MET:HG3	1.44	0.99
21:AU:44:LEU:CG	21:AU:45:SER:H	1.71	0.99
25:BA:1275:A:H2	39:BQ:16:HIS:HA	1.19	0.99
25:BA:360:G:H2'	25:BA:361:G:C5'	1.92	0.99
36:BN:18:LYS:HG2	36:BN:19:ILE:N	1.78	0.99
36:BN:31:LYS:HB3	36:BN:32:TYR:CZ	1.97	0.99
36:BN:59:LYS:HA	36:BN:86:ILE:HB	1.39	0.99
37:BO:46:LYS:HB3	37:BO:49:ARG:NH1	1.77	0.99
45:BW:85:PRO:HG2	45:BW:87:GLN:HG2	1.43	0.99
1:AA:1192:C:N4	1:AA:1193:G:C5	2.29	0.99
1:AA:1411:C:H2'	1:AA:1412:C:H6	1.27	0.99
1:AA:570:G:H2'	1:AA:571:U:C5	1.97	0.99
10:AJ:155:ARG:HD3	10:AJ:156:TRP:H	1.26	0.99
25:BA:323:G:H5'	25:BA:324:A:OP1	1.60	0.99
25:BA:27:G:N1	25:BA:512:G:H2'	1.76	0.99
40:BR:89:ARG:CG	40:BR:90:GLY:H	1.75	0.99
41:BS:50:ILE:HG23	41:BS:68:TYR:HB3	1.42	0.99
43:BU:49:THR:CB	43:BU:50:PRO:HD2	1.91	0.99
1:AA:1157:A:C1'	1:AA:1181:G:H21	1.75	0.99
1:AA:291:C:H3'	1:AA:305:G:H22	1.26	0.99
5:AE:91:PRO:CG	5:AE:154:LEU:HB3	1.92	0.99
6:AF:116:VAL:HG11	6:AF:141:VAL:HG21	1.41	0.99
8:AH:51:VAL:O	8:AH:55:VAL:HG23	1.62	0.99
16:AP:34:LEU:HD23	16:AP:39:ILE:HG13	1.43	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1754:C:H2'	25:BA:1755:A:O4'	1.62	0.99
25:BA:2195:C:O2'	25:BA:2196:C:H5'	1.62	0.99
28:BD:63:ARG:HH11	28:BD:85:ASP:HB2	1.24	0.99
30:BF:168:ARG:CD	30:BF:169:ASN:H	1.73	0.99
36:BN:24:VAL:HG13	36:BN:30:ALA:HB1	1.44	0.99
39:BQ:102:GLU:HA	39:BQ:102:GLU:OE2	1.61	0.99
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.27	0.99
14:AN:58:PRO:HB2	14:AN:93:GLN:HG3	1.42	0.99
21:AU:70:ILE:O	21:AU:74:ARG:HD2	1.62	0.99
25:BA:2320:A:H1'	25:BA:2333:A:N6	1.76	0.99
25:BA:270(A):A:H5'	25:BA:270(B):A:OP2	1.61	0.99
27:BC:167:LYS:HG3	27:BC:168:THR:N	1.77	0.99
28:BD:244:ARG:HB3	28:BD:252:TRP:CD1	1.97	0.99
1:AA:754:C:H4'	18:AR:72:ARG:NH2	1.78	0.99
5:AE:101:MET:CA	5:AE:108:ILE:HG13	1.90	0.99
7:AG:21:LEU:HD13	7:AG:67:ILE:HG22	1.43	0.99
22:AV:5:LEU:HB2	22:AV:9:VAL:HG22	1.44	0.99
23:AW:75:ASN:O	23:AW:78:ALA:HB3	1.63	0.99
25:BA:1606:G:H4'	25:BA:1608:A:N3	1.78	0.99
25:BA:2014:A:H2'	25:BA:2015:A:C2	1.98	0.99
31:BG:16:ARG:O	31:BG:20:ILE:HB	1.59	0.99
37:BO:63:PRO:HB2	37:BO:64:LYS:NZ	1.78	0.99
33:BK:94:ALA:O	33:BK:97:ILE:HB	1.63	0.99
47:BY:8:TYR:HD1	47:BY:8:TYR:H	1.04	0.99
1:AA:12:U:H2'	1:AA:13:U:H5	1.25	0.99
1:AA:262:A:H2'	1:AA:263:A:C8	1.95	0.99
1:AA:828:A:H5'	1:AA:859:A:N1	1.76	0.99
1:AA:878:G:OP1	11:AK:88:LYS:HB3	1.63	0.99
5:AE:184:VAL:O	5:AE:198:ASP:HB2	1.61	0.99
18:AR:7:GLU:HA	18:AR:10:LYS:HG2	1.45	0.99
25:BA:2346:A:N6	53:B5:37:ARG:HH12	1.60	0.99
25:BA:1173:G:H1'	25:BA:1177:A:N6	1.78	0.99
25:BA:1954:G:H21	25:BA:1956:U:C1'	1.76	0.99
25:BA:37:C:H4'	25:BA:451:C:OP1	1.60	0.99
25:BA:791:C:C4	25:BA:794:G:H1'	1.97	0.99
30:BF:157:VAL:HA	30:BF:176:LEU:O	1.62	0.99
25:BA:1665:A:H4'	36:BN:1:MET:N	1.78	0.99
36:BN:64:ARG:HA	36:BN:81:ASP:OD2	1.62	0.99
40:BR:11:LYS:CA	40:BR:14:VAL:HB	1.91	0.99
41:BS:53:ARG:HH21	41:BS:102:ILE:HG12	1.25	0.99
41:BS:17:THR:HB	41:BS:20:PRO:HD3	1.42	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BX:28:LYS:N	46:BX:28:LYS:HE2	1.75	0.99
1:AA:68:G:H5'	1:AA:171:A:H1'	1.42	0.99
5:AE:91:PRO:HG3	5:AE:155:LEU:H	1.24	0.99
5:AE:57:PHE:CD1	5:AE:199:TYR:HE1	1.79	0.99
8:AH:71:LEU:HD23	8:AH:72:GLN:N	1.78	0.99
10:AJ:115:ARG:HB2	10:AJ:118:VAL:CG2	1.93	0.99
19:AS:72:ARG:NH1	19:AS:73:LEU:HB2	1.78	0.99
23:AW:56:MET:O	23:AW:59:ALA:HB3	1.63	0.99
54:B6:30:VAL:HG22	54:B6:33:ARG:NH2	1.76	0.99
25:BA:1142(A):A:N1	25:BA:1143:A:H8	1.58	0.99
25:BA:2587:A:C2'	25:BA:2588:G:H5'	1.91	0.99
28:BD:211:ARG:O	28:BD:215:LEU:HD12	1.63	0.99
25:BA:2636:U:H4'	29:BE:79:ARG:HD3	1.41	0.99
30:BF:122:LYS:NZ	30:BF:122:LYS:HA	1.77	0.99
31:BG:131:TYR:CG	31:BG:132:ASN:N	2.28	0.99
16:AP:3:ARG:HG3	31:BG:141:PHE:HD1	1.27	0.99
31:BG:51:ARG:HD2	31:BG:51:ARG:H	1.24	0.99
34:BL:14:ALA:HB1	34:BL:48:MET:O	1.61	0.99
1:AA:1408:A:C2	1:AA:1495:U:H5	1.81	0.99
1:AA:42:G:H2'	1:AA:43:C:C6	1.96	0.99
5:AE:82:ARG:HA	5:AE:92:TYR:HE1	1.26	0.99
7:AG:59:ARG:HA	7:AG:59:ARG:CZ	1.91	0.99
51:B3:68:ARG:H	51:B3:68:ARG:NH1	1.61	0.99
25:BA:1174:A:H2'	25:BA:1175:U:H5''	1.43	0.99
25:BA:2447:G:H1'	25:BA:2501:C:C5	1.97	0.99
30:BF:64:ILE:HD13	30:BF:65:TRP:N	1.77	0.99
41:BS:55:ASN:HA	41:BS:62:THR:O	1.62	0.99
43:BU:2:PHE:CB	43:BU:13:ARG:HH22	1.75	0.99
1:AA:1465:C:H2'	1:AA:1465:C:O2	1.61	0.99
1:AA:173:U:C4'	1:AA:197:A:H1'	1.93	0.99
1:AA:298:A:H3'	1:AA:299:G:H8	1.28	0.99
6:AF:38:ARG:HB3	6:AF:38:ARG:NH1	1.77	0.99
15:AO:54:LYS:HB3	15:AO:70:ILE:HD12	1.41	0.99
25:BA:1001:A:H2'	25:BA:1002:G:O4'	1.62	0.99
25:BA:1691:C:O2'	25:BA:1692:U:H5'	1.61	0.99
28:BD:159:ALA:O	28:BD:196:VAL:HG21	1.63	0.99
43:BU:28:GLU:HB3	43:BU:94:LEU:CD1	1.92	0.99
43:BU:36:PRO:HA	43:BU:60:GLU:O	1.62	0.99
10:AJ:104:LEU:HD22	10:AJ:134:ALA:HB1	1.43	0.98
52:B4:9:LYS:CE	52:B4:10:LYS:H	1.76	0.98
25:BA:1198:U:H2'	25:BA:1199:U:C5	1.97	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:221:A:N7	25:BA:266:G:N7	2.10	0.98
25:BA:270(X):G:H2'	25:BA:270(Y):G:H5'	1.42	0.98
25:BA:931:G:C8	25:BA:932:G:H1'	1.97	0.98
27:BC:76:ALA:HB1	27:BC:149:ILE:HD11	1.45	0.98
25:BA:2320:A:N6	40:BR:4:LEU:HD13	1.77	0.98
40:BR:9:ARG:HB2	40:BR:9:ARG:NH1	1.78	0.98
42:BT:55:ARG:HA	42:BT:58:ARG:HH12	1.27	0.98
25:BA:1076:C:O2'	34:BL:90:LYS:HD3	1.63	0.98
8:AH:82:VAL:HG12	8:AH:89:ILE:HG22	1.39	0.98
11:AK:126:LYS:NZ	11:AK:127:LEU:HD23	1.78	0.98
46:BX:52:SER:HB3	46:BX:56:PRO:CB	1.93	0.98
48:BZ:44:ARG:HH21	48:BZ:77:ARG:NH1	1.60	0.98
13:AM:79:ARG:HA	13:AM:79:ARG:HH11	1.25	0.98
50:B2:7:LYS:HE3	50:B2:33:GLN:H	1.26	0.98
25:BA:1689:A:H2'	25:BA:1690:A:H8	1.27	0.98
25:BA:1775:U:H1'	28:BD:208:LYS:HZ1	1.17	0.98
25:BA:2063:C:H2'	25:BA:2064:C:O4'	1.64	0.98
25:BA:2298:A:H2'	25:BA:2299:G:O4'	1.63	0.98
25:BA:861:A:C2'	25:BA:862:G:H5'	1.93	0.98
28:BD:136:ILE:HB	28:BD:168:ARG:NH2	1.79	0.98
30:BF:34:TRP:CZ3	37:BO:8:PRO:HD2	1.97	0.98
35:BM:18:ALA:HB3	35:BM:55:VAL:O	1.63	0.98
36:BN:59:LYS:HB2	36:BN:84:ALA:O	1.63	0.98
37:BO:107:LYS:HE2	37:BO:110:TYR:CD1	1.98	0.98
30:BF:31:HIS:ND1	37:BO:11:GLY:HA3	1.76	0.98
42:BT:89:GLU:HB3	43:BU:52:VAL:N	1.78	0.98
33:BK:93:THR:HG22	33:BK:96:ASP:OD1	1.63	0.98
1:AA:1262:C:H2'	1:AA:1263:C:C6	1.98	0.98
1:AA:576:G:N7	1:AA:881:G:H1'	1.78	0.98
7:AG:57:ARG:HB3	7:AG:206:PHE:HB2	1.44	0.98
18:AR:33:THR:CG2	18:AR:87:ILE:HD11	1.93	0.98
1:AA:392:G:H5'	19:AS:12:LYS:NZ	1.76	0.98
20:AT:67:LYS:HA	20:AT:70:ARG:NH2	1.78	0.98
25:BA:1363:C:O3'	25:BA:1809:A:N7	1.95	0.98
25:BA:150:C:H42	25:BA:176:G:H1	1.09	0.98
25:BA:2431:U:H2'	25:BA:2432:A:C5'	1.93	0.98
25:BA:2455:G:H2'	25:BA:2456:C:C6	1.98	0.98
25:BA:60:G:H21	25:BA:74:A:H4'	1.27	0.98
29:BE:133:LYS:HZ2	29:BE:136:ARG:HH22	1.06	0.98
29:BE:133:LYS:HZ2	29:BE:136:ARG:NH2	1.58	0.98
33:BK:31:LEU:HD22	33:BK:36:ALA:HB3	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:8:LEU:HB3	36:BN:19:ILE:HD11	1.44	0.98
42:BT:102:GLU:HB3	42:BT:105:VAL:CB	1.94	0.98
42:BT:63:VAL:HA	42:BT:66:ASN:HD22	1.27	0.98
43:BU:13:ARG:NH1	43:BU:13:ARG:HB3	1.77	0.98
44:BV:64:MET:HG2	44:BV:109:GLU:CG	1.93	0.98
44:BV:16:LYS:N	44:BV:16:LYS:HD3	1.78	0.98
1:AA:1202:G:N2	1:AA:1203:C:H1'	1.77	0.98
25:BA:1007:C:H4'	35:BM:108:PRO:CD	1.93	0.98
25:BA:1312:U:H2'	25:BA:1313:U:O4'	1.63	0.98
25:BA:2687:U:N3	25:BA:2688:U:C6	2.30	0.98
25:BA:272:G:O2'	25:BA:273:G:H5'	1.63	0.98
35:BM:7:LYS:HE2	35:BM:39:ARG:NH2	1.77	0.98
36:BN:1:MET:HB3	36:BN:66:LYS:HB3	1.42	0.98
39:BQ:96:ARG:NH2	39:BQ:117:VAL:HG23	1.76	0.98
51:B3:13:ARG:HG2	51:B3:14:ILE:N	1.74	0.98
9:AI:36:ARG:HB3	9:AI:36:ARG:NH1	1.79	0.98
15:AO:33:ARG:O	15:AO:84:LEU:HG	1.62	0.98
49:B1:5:LEU:HD21	49:B1:9:ARG:HH11	1.29	0.98
29:BE:50:GLY:C	29:BE:76:ARG:HE	1.65	0.98
31:BG:53:LEU:HD23	31:BG:70:VAL:HA	1.45	0.98
31:BG:74:LYS:HB3	31:BG:87:PRO:HG3	1.45	0.98
40:BR:74:ALA:HB1	40:BR:108:GLY:H	1.29	0.98
46:BX:26:LYS:HB3	46:BX:36:ALA:HB3	1.42	0.98
48:BZ:64:ASP:HB3	48:BZ:84:LEU:HD13	1.45	0.98
15:AO:126:LYS:HE3	15:AO:126:LYS:N	1.78	0.98
7:AG:131:ARG:H	7:AG:131:ARG:HH11	1.10	0.98
10:AJ:10:ARG:HB3	10:AJ:10:ARG:HH11	1.25	0.98
10:AJ:69:VAL:HG21	10:AJ:104:LEU:HD21	1.45	0.98
52:B4:51:TYR:HB3	52:B4:55:ARG:HA	1.45	0.98
25:BA:2615:U:H2'	25:BA:2616:C:C6	1.99	0.98
25:BA:714:U:H2'	25:BA:715:G:C8	1.97	0.98
27:BC:97:GLU:OE2	27:BC:100:ILE:HD12	1.64	0.98
34:BL:18:THR:HG23	34:BL:38:VAL:HG11	1.45	0.98
1:AA:1062:U:H2'	1:AA:1063:C:C6	1.98	0.98
15:AO:68:ALA:HB1	15:AO:99:HIS:HA	1.44	0.98
25:BA:2492:U:O2	25:BA:2492:U:H2'	1.58	0.98
30:BF:133:ASN:ND2	30:BF:162:LEU:HD13	1.77	0.98
25:BA:1204:A:N3	30:BF:188:ARG:HA	1.77	0.98
32:BH:9:ILE:N	32:BH:51:ARG:HH11	1.62	0.98
37:BO:107:LYS:HZ3	37:BO:110:TYR:HB3	0.84	0.98
6:AF:35:GLU:HA	6:AF:38:ARG:HG2	1.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:74:GLY:C	8:AH:115:VAL:HG12	1.83	0.98
1:AA:624:C:H4'	19:AS:10:GLY:O	1.62	0.98
25:BA:2051:A:N3	25:BA:2614:A:N6	2.12	0.98
26:BB:13:A:H2'	26:BB:14:U:H5''	1.45	0.98
32:BH:13:LYS:HE3	32:BH:80:SER:HA	1.45	0.98
43:BU:3:ALA:HA	43:BU:44:LYS:CE	1.93	0.98
25:BA:1064:C:H3'	25:BA:1065:U:C5	1.98	0.98
1:AA:21:G:H2'	1:AA:22:G:H8	1.28	0.98
3:AD:19:G:N2	3:AD:57:G:H1'	1.78	0.98
7:AG:26:CYS:HA	7:AG:31:CYS:HB3	1.44	0.98
1:AA:942:G:H21	12:AL:124:GLN:HE22	0.99	0.98
25:BA:1024:G:N2	25:BA:1139:G:H22	1.62	0.98
25:BA:1542:G:H1'	25:BA:1543:A:N6	1.77	0.98
25:BA:422:A:N3	25:BA:422:A:H2'	1.77	0.98
25:BA:2512:C:H5''	29:BE:120:TRP:HH2	1.27	0.98
35:BM:88:GLU:CB	35:BM:89:LYS:HZ3	1.76	0.98
35:BM:7:LYS:HE3	35:BM:8:GLN:H	1.19	0.98
1:AA:877:C:OP1	11:AK:88:LYS:HD3	1.64	0.97
5:AE:204:ASN:HD22	5:AE:205:ASP:N	1.61	0.97
5:AE:81:VAL:HG12	5:AE:92:TYR:HD1	1.29	0.97
50:B2:12:PRO:HA	50:B2:15:TYR:CE2	1.98	0.97
50:B2:3:ARG:HH12	50:B2:59:VAL:HB	0.86	0.97
54:B6:33:ARG:O	54:B6:37:LYS:HB2	1.63	0.97
25:BA:1511:A:H2'	25:BA:1512:G:H5''	1.44	0.97
25:BA:1672:C:H2'	25:BA:1673:U:H5''	0.98	0.97
25:BA:2238:G:O2'	25:BA:2239:G:H5''	1.64	0.97
25:BA:280:C:O3'	25:BA:281:G:H3'	1.63	0.97
27:BC:138:PRO:HA	27:BC:144:THR:HB	1.45	0.97
35:BM:33:LEU:O	35:BM:35:ARG:HG3	1.61	0.97
1:AA:389:A:H2'	1:AA:390:C:H5'	1.44	0.97
1:AA:687:A:H61	1:AA:703:G:H1'	1.26	0.97
11:AK:11:THR:HA	11:AK:14:ARG:CZ	1.94	0.97
54:B6:30:VAL:HG13	54:B6:33:ARG:NH1	1.79	0.97
25:BA:2523:G:C1'	25:BA:2765:A:N7	2.26	0.97
25:BA:431:U:H3'	25:BA:431:U:C6	1.99	0.97
26:BB:30:C:H2'	26:BB:31:C:H5'	1.46	0.97
30:BF:70:THR:C	30:BF:72:ARG:H	1.60	0.97
31:BG:44:GLY:HA3	31:BG:72:ARG:CB	1.94	0.97
25:BA:1244:G:H4'	37:BO:9:ASN:HB3	1.42	0.97
42:BT:88:ILE:CG1	43:BU:52:VAL:HG13	1.94	0.97
43:BU:66:ARG:HE	43:BU:95:LEU:HD12	1.27	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1292:U:H2'	1:AA:1293:G:C8	1.99	0.97
1:AA:1238:A:H62	1:AA:1301:U:H3	1.06	0.97
1:AA:886:G:O2'	1:AA:887:G:H5'	1.63	0.97
5:AE:233:SER:HB3	5:AE:234:PRO:HD2	1.43	0.97
12:AL:10:ARG:CA	12:AL:104:ARG:HE	1.77	0.97
23:AW:50:GLU:OE1	23:AW:100:ILE:HG12	1.64	0.97
25:BA:739:G:O3'	25:BA:1784:A:N1	1.97	0.97
25:BA:586:A:C5'	30:BF:89:VAL:HG21	1.94	0.97
31:BG:39:ILE:HD13	31:BG:92:VAL:HB	1.46	0.97
31:BG:96:ARG:O	31:BG:99:MET:HB2	1.64	0.97
37:BO:81:GLN:HA	37:BO:86:LYS:CG	1.94	0.97
1:AA:1492:A:N6	1:AA:1494:G:H4'	1.79	0.97
1:AA:327:A:H4'	1:AA:328:C:OP1	1.61	0.97
1:AA:113:G:H1'	1:AA:354:G:H5''	1.47	0.97
25:BA:2393:A:OP2	55:B7:32:LEU:HD21	1.64	0.97
25:BA:2468:G:O2'	25:BA:2469:A:H5'	1.64	0.97
25:BA:511:U:H5	25:BA:512:G:N3	1.63	0.97
25:BA:586:A:H5'	30:BF:89:VAL:CG2	1.94	0.97
28:BD:63:ARG:HD2	28:BD:85:ASP:CB	1.93	0.97
29:BE:105:THR:O	29:BE:196:VAL:HG13	1.62	0.97
32:BH:155:SER:HB2	32:BH:158:HIS:O	1.65	0.97
38:BP:43:THR:HA	38:BP:94:VAL:HG11	1.43	0.97
42:BT:92:ARG:C	42:BT:94:ASN:H	1.52	0.97
34:BL:14:ALA:HB2	34:BL:53:VAL:HB	1.43	0.97
1:AA:197:A:N6	1:AA:221:C:O4'	1.96	0.97
1:AA:297:G:N2	1:AA:299:G:H3'	1.78	0.97
5:AE:187:LEU:HD11	5:AE:204:ASN:O	1.63	0.97
5:AE:57:PHE:HD1	5:AE:199:TYR:CE1	1.82	0.97
6:AF:36:ASP:O	6:AF:39:ILE:HB	1.65	0.97
53:B5:41:PRO:HD2	53:B5:46:HIS:O	1.62	0.97
25:BA:1268:A:H2'	25:BA:1269:A:C8	1.98	0.97
25:BA:1995:U:H3'	25:BA:1995:U:H6	1.29	0.97
25:BA:503:A:C4	25:BA:505:A:N7	2.32	0.97
25:BA:640:C:H2'	25:BA:641:C:C5'	1.94	0.97
25:BA:997:G:O2'	25:BA:998:C:H5'	1.62	0.97
28:BD:118:VAL:O	28:BD:129:ASN:HA	1.62	0.97
35:BM:109:LYS:HE2	35:BM:110:GLY:H	1.23	0.97
38:BP:23:GLY:CA	38:BP:101:ARG:HH21	1.75	0.97
42:BT:88:ILE:H	43:BU:52:VAL:HG22	1.25	0.97
1:AA:392:G:H5'	19:AS:12:LYS:HZ3	1.30	0.97
13:AM:8:LEU:HD13	13:AM:94:VAL:HG11	1.47	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:18:THR:CG2	20:AT:43:LEU:HD11	1.94	0.97
25:BA:1011:G:O2'	25:BA:1013:C:H5''	1.62	0.97
25:BA:270:A:N1	25:BA:370:G:H1'	1.79	0.97
25:BA:643:A:H1'	25:BA:644:A:C8	2.00	0.97
30:BF:57:VAL:O	30:BF:58:ALA:O	1.82	0.97
33:BK:31:LEU:CD2	33:BK:36:ALA:HB3	1.93	0.97
38:BP:118:LEU:HD13	38:BP:131:ILE:HG21	1.45	0.97
38:BP:6:ARG:HG2	38:BP:70:PRO:HG2	1.46	0.97
43:BU:62:LEU:HD22	43:BU:99:ILE:H	1.26	0.97
33:BK:88:ILE:HD11	33:BK:123:LEU:HD13	1.46	0.97
22:AV:32:LYS:HA	22:AV:50:ALA:HB3	1.46	0.97
5:AE:130:ARG:HD3	5:AE:131:PRO:HD2	1.43	0.97
22:AV:62:ILE:HD11	22:AV:67:VAL:HA	1.47	0.97
51:B3:7:PRO:HG2	51:B3:60:GLN:HG3	1.47	0.97
25:BA:2348:U:H3'	55:B7:42:ARG:NH2	1.80	0.97
25:BA:1717:G:N2	25:BA:1718:G:N3	2.13	0.97
25:BA:2195:C:H2'	25:BA:2196:C:O4'	1.64	0.97
25:BA:2278:A:H62	48:BZ:14:ARG:CB	1.78	0.97
25:BA:745:G:O2'	25:BA:746:A:H5'	1.64	0.97
28:BD:24:ILE:HG22	28:BD:25:THR:H	1.28	0.97
28:BD:27:THR:HG22	28:BD:29:PRO:CD	1.95	0.97
32:BH:9:ILE:H	32:BH:51:ARG:NH1	1.62	0.97
33:BK:40:THR:O	33:BK:44:LEU:HG	1.65	0.97
35:BM:16:ILE:HD11	35:BM:52:VAL:CG2	1.94	0.97
37:BO:45:LEU:HB3	37:BO:46:LYS:HE3	1.46	0.97
43:BU:6:LYS:HD3	43:BU:10:LYS:HG2	0.98	0.97
43:BU:83:ARG:O	43:BU:83:ARG:HD3	1.64	0.97
46:BX:97:ARG:HA	46:BX:101:LYS:HG3	1.46	0.97
1:AA:1205:U:H4'	6:AF:195:VAL:HG13	1.47	0.97
7:AG:19:LEU:H	7:AG:33:MET:HE1	1.30	0.97
8:AH:91:LEU:HD21	8:AH:118:ILE:CG2	1.94	0.97
9:AI:41:GLU:O	9:AI:42:GLU:HB3	1.65	0.97
16:AP:90:LEU:HD23	16:AP:93:ARG:HD3	1.42	0.97
20:AT:104:LYS:HD3	20:AT:105:ALA:N	1.79	0.97
20:AT:84:LEU:HD23	20:AT:84:LEU:H	1.28	0.97
53:B5:20:ASN:HD22	53:B5:41:PRO:HB2	0.82	0.97
25:BA:1321:A:H2'	25:BA:1321:A:N3	1.80	0.97
25:BA:2395:C:H2'	25:BA:2396:G:H8	1.27	0.97
25:BA:336:C:H2'	25:BA:337:C:C5'	1.94	0.97
25:BA:366:C:H5''	25:BA:403:U:H3	1.29	0.97
25:BA:531:C:N4	42:BT:38:THR:HG22	1.78	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:87:GLU:CG	27:BC:94:VAL:HG11	1.94	0.97
29:BE:147:PRO:O	29:BE:149:ARG:HG3	1.64	0.97
32:BH:149:ARG:CZ	32:BH:164:TYR:HB3	1.93	0.97
36:BN:105:GLU:O	36:BN:111:PHE:CZ	2.17	0.97
36:BN:65:THR:HG23	36:BN:78:ARG:O	1.64	0.97
39:BQ:55:ALA:CB	39:BQ:79:LEU:HD21	1.95	0.97
1:AA:920:U:H2'	1:AA:921:U:H6	1.25	0.97
5:AE:56:ARG:HB3	5:AE:56:ARG:HH11	1.22	0.97
11:AK:39:LEU:HB3	11:AK:45:ILE:CG2	1.94	0.97
1:AA:684:A:H4'	14:AN:12:ARG:HH22	1.29	0.97
52:B4:47:PRO:O	52:B4:58:LEU:HG	1.65	0.97
25:BA:120:U:H1'	25:BA:149:A:N3	1.78	0.97
25:BA:2098:U:H2'	25:BA:2099:U:C6	1.99	0.97
25:BA:691:C:H1'	28:BD:45:ASN:ND2	1.78	0.97
45:BW:16:LYS:HE2	45:BW:16:LYS:N	1.79	0.97
46:BX:16:ALA:HB3	46:BX:68:HIS:ND1	1.78	0.97
47:BY:157:LEU:CD2	47:BY:161:VAL:HA	1.95	0.97
1:AA:1196:U:H5'	1:AA:1197:G:C5'	1.94	0.97
1:AA:1266:G:H2'	1:AA:1268:A:OP2	1.65	0.97
6:AF:135:LYS:HZ2	8:AH:52:PRO:HG2	1.30	0.97
11:AK:88:LYS:NZ	11:AK:88:LYS:H	1.62	0.97
49:B1:44:LYS:O	49:B1:48:LEU:HB2	1.63	0.97
25:BA:1039:G:H22	25:BA:1115:G:H22	1.13	0.97
25:BA:1343:G:H1'	25:BA:1597:A:C2	2.00	0.97
25:BA:1711:C:H2'	25:BA:1712:C:C6	1.99	0.97
25:BA:197:A:H61	25:BA:248:G:N2	1.62	0.97
25:BA:2876:G:H5'	41:BS:1:MET:H3	1.25	0.97
25:BA:959:A:N6	25:BA:960:A:H62	1.63	0.97
29:BE:66:HIS:HD2	29:BE:71:GLY:H	1.12	0.97
42:BT:88:ILE:HG12	43:BU:52:VAL:CG1	1.94	0.97
46:BX:99:CYS:O	46:BX:101:LYS:HD2	1.63	0.97
47:BY:152:ALA:O	47:BY:155:LEU:HB2	1.64	0.97
25:BA:846:C:H1'	25:BA:847:U:O4	1.65	0.97
9:AI:14:LEU:HD12	9:AI:19:LEU:HD12	1.46	0.96
11:AK:46:LYS:NZ	11:AK:64:LYS:HA	1.80	0.96
12:AL:47:LEU:HD12	12:AL:51:ARG:HH22	1.28	0.96
13:AM:79:ARG:HH11	13:AM:79:ARG:CA	1.78	0.96
25:BA:1664:A:H2'	25:BA:1665:A:C8	2.00	0.96
25:BA:1747:G:O2'	25:BA:1748:G:H5'	1.63	0.96
25:BA:739:G:O2'	25:BA:1784:A:N1	1.97	0.96
25:BA:411:G:O4'	25:BA:2407:G:P	2.23	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:242:G:H3'	55:B7:4:MET:SD	2.05	0.96
25:BA:24:G:H2'	25:BA:25:U:H6	1.30	0.96
25:BA:2709:G:O2'	25:BA:2710:C:H5'	1.64	0.96
25:BA:541:C:H2'	25:BA:542:C:C6	1.99	0.96
29:BE:108:SER:HB3	29:BE:164:ARG:HA	1.46	0.96
29:BE:45:THR:HG21	29:BE:81:ILE:HA	1.47	0.96
30:BF:132:VAL:H	30:BF:138:GLU:HG3	1.28	0.96
32:BH:38:SER:N	32:BH:41:MET:HE2	1.79	0.96
36:BN:10:VAL:HG12	36:BN:17:ARG:HA	1.47	0.96
39:BQ:58:GLY:HA2	39:BQ:80:PHE:CZ	1.99	0.96
43:BU:40:LEU:HD23	43:BU:51:VAL:CG1	1.94	0.96
47:BY:121:HIS:HB3	47:BY:171:ILE:O	1.63	0.96
47:BY:4:ARG:NH1	47:BY:37:VAL:HB	1.80	0.96
1:AA:372:C:H42	1:AA:389:A:H62	1.01	0.96
7:AG:12:CYS:HA	7:AG:19:LEU:HB2	0.99	0.96
11:AK:29:SER:HB2	11:AK:32:LYS:NZ	1.80	0.96
11:AK:70:GLN:NE2	11:AK:72:PRO:HD2	1.80	0.96
18:AR:39:LEU:HD11	18:AR:56:LEU:HB2	1.46	0.96
19:AS:53:VAL:HG12	19:AS:79:VAL:HG22	1.44	0.96
25:BA:1507:A:H2'	25:BA:1507:A:N3	1.79	0.96
25:BA:1790:C:H4'	28:BD:213:ARG:NH1	1.80	0.96
25:BA:1799:G:H3'	28:BD:183:ARG:NH2	1.80	0.96
25:BA:1964:G:H4'	25:BA:1965:C:OP2	1.65	0.96
25:BA:957:A:N1	25:BA:2459:A:C5'	2.26	0.96
25:BA:2746:U:O4	25:BA:2756:U:O4	1.83	0.96
39:BQ:88:ARG:NH1	39:BQ:88:ARG:HB2	1.80	0.96
41:BS:30:VAL:HG22	41:BS:32:TYR:HE2	1.14	0.96
41:BS:41:ARG:HE	41:BS:41:ARG:H	1.01	0.96
1:AA:1534:A:H2'	1:AA:1535:C:H6	1.27	0.96
1:AA:64:G:H4'	1:AA:65:U:C5'	1.94	0.96
5:AE:180:LEU:O	5:AE:181:PHE:HB2	1.63	0.96
1:AA:1080:A:H5'	8:AH:14:ARG:HH21	1.30	0.96
25:BA:1024:G:O6	25:BA:1134:G:H1'	1.64	0.96
25:BA:1513:C:H2'	25:BA:1514:U:C5	1.99	0.96
25:BA:594:U:H2'	25:BA:595:C:C5	1.98	0.96
25:BA:746:A:H1'	25:BA:748:G:H21	1.29	0.96
28:BD:6:PHE:O	28:BD:27:THR:HA	1.64	0.96
29:BE:101:ARG:HD2	29:BE:169:ASN:ND2	1.80	0.96
31:BG:131:TYR:HB2	31:BG:159:VAL:HG22	1.42	0.96
29:BE:152:LYS:NZ	35:BM:77:GLY:HA3	1.80	0.96
37:BO:124:LYS:CB	37:BO:143:GLY:HA3	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:636:G:H22	37:BO:75:ILE:HD12	1.29	0.96
25:BA:535:C:O2'	42:BT:53:ARG:HD2	1.66	0.96
47:BY:157:LEU:HD23	47:BY:158:PRO:CD	1.95	0.96
1:AA:1400:C:H4'	1:AA:1401:G:OP2	1.62	0.96
5:AE:107:THR:HA	5:AE:110:GLN:OE1	1.64	0.96
25:BA:1535:U:H2'	25:BA:1536:A:O4'	1.65	0.96
25:BA:1800:C:H3'	25:BA:1800:C:H6	1.25	0.96
25:BA:2243:U:H2'	25:BA:2244:U:H6	1.27	0.96
25:BA:2755:C:C4'	25:BA:2756:U:C5	2.48	0.96
25:BA:2043:C:N4	25:BA:2777:G:N3	2.14	0.96
25:BA:2862:G:H2'	25:BA:2863:C:H6	1.30	0.96
25:BA:247:G:H4'	25:BA:386:G:C2	2.01	0.96
26:BB:100:G:H2'	26:BB:101:A:H8	1.28	0.96
27:BC:149:ILE:O	27:BC:153:ILE:HD12	1.63	0.96
29:BE:5:LEU:HD23	29:BE:7:VAL:HG12	1.47	0.96
32:BH:97:ARG:HE	32:BH:99:VAL:HG22	1.27	0.96
35:BM:88:GLU:HB2	35:BM:89:LYS:NZ	1.81	0.96
43:BU:68:LYS:O	43:BU:69:LYS:HB2	1.63	0.96
26:BB:12:C:O4'	48:BZ:74:ARG:NE	1.99	0.96
34:BL:79:ARG:HH11	34:BL:87:GLY:HA2	1.28	0.96
7:AG:170:VAL:HG12	7:AG:171:GLY:H	1.28	0.96
1:AA:953:G:O2'	16:AP:125:ARG:HA	1.65	0.96
53:B5:25:LYS:NZ	55:B7:35:GLN:HB3	1.80	0.96
25:BA:1203:G:H2'	25:BA:1203:G:N3	1.79	0.96
25:BA:1473:G:H2'	25:BA:1474:C:O4'	1.66	0.96
25:BA:2459:A:C2	25:BA:2460:U:O2	2.18	0.96
25:BA:602:G:H21	25:BA:655:A:H2'	1.30	0.96
25:BA:729:G:C2'	25:BA:730:C:H4'	1.95	0.96
25:BA:75:G:H4'	49:B1:50:ARG:HH11	1.29	0.96
25:BA:775:G:N2	25:BA:787:U:O3'	1.98	0.96
25:BA:819:A:H2'	25:BA:820:A:H8	1.30	0.96
32:BH:6:ARG:HH11	32:BH:6:ARG:HA	1.27	0.96
35:BM:120:LEU:HD12	35:BM:121:LYS:N	1.80	0.96
48:BZ:12:ASN:HA	48:BZ:14:ARG:NH2	1.80	0.96
25:BA:855:G:H21	48:BZ:27:GLU:HB3	1.28	0.96
48:BZ:46:LYS:HG3	48:BZ:78:TYR:CE2	2.01	0.96
1:AA:1005:A:H3'	1:AA:1006:C:H6	1.25	0.96
1:AA:1483:A:C2	25:BA:1960:A:H1'	2.01	0.96
5:AE:155:LEU:HB2	5:AE:159:PRO:HG3	1.45	0.96
5:AE:91:PRO:HG3	5:AE:154:LEU:CB	1.95	0.96
8:AH:91:LEU:HD11	8:AH:110:LEU:HD11	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:109:ILE:HG13	11:AK:111:ILE:HD11	1.45	0.96
23:AW:13:LEU:HD13	23:AW:17:ARG:NH2	1.80	0.96
25:BA:532:A:H2	25:BA:2035:G:H21	1.08	0.96
25:BA:2584:U:H3'	25:BA:2584:U:H6	1.27	0.96
40:BR:97:ARG:O	40:BR:100:ALA:HB3	1.66	0.96
43:BU:13:ARG:HH11	43:BU:13:ARG:CB	1.78	0.96
1:AA:169:C:H2'	1:AA:170:U:H6	1.30	0.96
1:AA:253:U:H2'	1:AA:254:G:H8	1.30	0.96
1:AA:976:G:OP1	17:AQ:32:SER:HA	1.64	0.96
7:AG:170:VAL:CG2	7:AG:176:LEU:HB2	1.96	0.96
7:AG:20:TYR:HA	7:AG:26:CYS:O	1.65	0.96
9:AI:23:LYS:HA	9:AI:26:ILE:CD1	1.96	0.96
15:AO:45:PRO:HG3	15:AO:50:SER:HA	1.43	0.96
20:AT:97:SER:O	20:AT:103:GLY:HA2	1.64	0.96
54:B6:11:LYS:O	54:B6:14:LYS:HB2	1.65	0.96
25:BA:270(E):G:O2'	25:BA:270(F):U:H5'	1.65	0.96
25:BA:573:G:H22	25:BA:2029:G:N2	1.63	0.96
25:BA:636:G:H22	37:BO:75:ILE:CD1	1.78	0.96
30:BF:174:VAL:HG11	30:BF:189:THR:HG22	1.43	0.96
37:BO:79:ARG:HA	37:BO:79:ARG:HH21	1.30	0.96
45:BW:91:ALA:O	45:BW:95:LEU:HG	1.64	0.96
7:AG:47:ARG:CZ	7:AG:47:ARG:HB2	1.91	0.96
1:AA:1196:U:H5'	1:AA:1197:G:H5'	1.47	0.96
1:AA:1363:A:H1'	1:AA:1365:G:N7	1.81	0.96
2:AC:74:C:C2'	2:AC:75:C:H5''	1.96	0.96
6:AF:84:ILE:HG13	6:AF:101:LEU:HD22	1.47	0.96
50:B2:4:LEU:HB3	50:B2:37:LEU:CD2	1.95	0.96
25:BA:1964:G:C2	25:BA:1967:C:H5	1.84	0.96
25:BA:1785:A:H5''	25:BA:1982:C:O2'	1.66	0.96
25:BA:454:A:H4'	25:BA:455:C:O2	1.64	0.96
25:BA:6:A:H4'	35:BM:132:ALA:O	1.65	0.96
25:BA:911:A:H8	25:BA:2264:C:H1'	0.80	0.96
25:BA:979:G:N7	25:BA:981:A:OP2	1.99	0.96
31:BG:124:SER:O	31:BG:132:ASN:HB3	1.65	0.96
31:BG:165:THR:HB	31:BG:168:GLU:OE1	1.66	0.96
35:BM:86:PRO:HB2	35:BM:89:LYS:HZ2	1.25	0.96
46:BX:47:LYS:NZ	46:BX:51:VAL:HG21	1.80	0.96
1:AA:1126:U:H2'	1:AA:1127:G:H8	1.30	0.96
11:AK:19:VAL:HG23	11:AK:21:LYS:HG2	1.46	0.96
54:B6:21:ARG:HB2	54:B6:21:ARG:NH1	1.80	0.96
25:BA:1762:A:H5'	25:BA:1763:G:OP2	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1787:A:H8	25:BA:1787:A:O5'	1.49	0.96
25:BA:1966:A:H1'	25:BA:2593:U:C5'	1.96	0.96
25:BA:197:A:N6	25:BA:248:G:H22	1.63	0.96
25:BA:2491:U:C6	25:BA:2491:U:C3'	2.39	0.96
25:BA:2553:G:N7	25:BA:2583:G:H4'	1.81	0.96
25:BA:2747:G:N2	25:BA:2754:U:N3	2.13	0.96
25:BA:498:G:H8	25:BA:498:G:O5'	1.46	0.96
27:BC:22:ILE:HG21	27:BC:190:ARG:HH22	1.27	0.96
30:BF:7:TYR:H	30:BF:20:LEU:HD22	1.31	0.96
26:BB:42:C:C2	31:BG:93:THR:HB	2.00	0.96
32:BH:38:SER:HB3	32:BH:41:MET:HG3	1.45	0.96
32:BH:43:VAL:HG13	32:BH:51:ARG:O	1.66	0.96
37:BO:17:LYS:HZ2	37:BO:17:LYS:HB2	1.27	0.96
44:BV:42:ARG:HH21	44:BV:42:ARG:HB2	1.30	0.96
47:BY:55:HIS:CD2	47:BY:124:ILE:HD11	2.00	0.96
1:AA:519:C:H2'	1:AA:520:A:H5'	1.45	0.96
1:AA:628:G:H2'	1:AA:629:G:C8	1.99	0.96
2:AC:74:C:H5''	25:BA:2602:A:H3'	1.48	0.96
12:AL:10:ARG:HA	12:AL:104:ARG:HE	0.82	0.96
14:AN:54:ARG:HH11	14:AN:54:ARG:HG3	1.31	0.96
51:B3:3:GLU:O	51:B3:3:GLU:HG2	1.64	0.96
25:BA:1288:U:H5''	25:BA:1289:C:OP2	1.64	0.96
25:BA:1326:U:C2'	25:BA:1327:C:H5'	1.95	0.96
25:BA:1651:G:H2'	25:BA:1652:A:C8	2.01	0.96
25:BA:2779:U:H5'	25:BA:2781:A:OP2	1.66	0.96
25:BA:684:G:C2'	25:BA:687:C:H41	1.78	0.96
25:BA:863:A:H2'	25:BA:864:G:H8	1.30	0.96
38:BP:22:LYS:HD2	38:BP:99:PRO:HG3	1.45	0.96
38:BP:74:TYR:CD2	38:BP:74:TYR:N	2.32	0.96
43:BU:64:HIS:HB3	43:BU:96:ILE:HA	1.47	0.96
5:AE:57:PHE:HD1	5:AE:199:TYR:HE1	1.08	0.95
10:AJ:64:GLN:HB3	10:AJ:128:ALA:HB1	1.48	0.95
11:AK:112:LEU:HD11	11:AK:114:THR:HG22	1.48	0.95
25:BA:1537:C:H2'	25:BA:1538:G:H5'	1.46	0.95
25:BA:1775:U:H1'	28:BD:208:LYS:HZ2	1.24	0.95
25:BA:2064:C:H1'	25:BA:2450:A:H62	1.22	0.95
35:BM:78:TYR:HD1	35:BM:79:PRO:HD2	1.24	0.95
40:BR:25:ARG:HA	40:BR:87:PHE:O	1.65	0.95
47:BY:127:LYS:HD2	47:BY:163:LEU:HA	1.47	0.95
48:BZ:72:ARG:HB3	48:BZ:75:LEU:HD13	1.47	0.95
1:AA:1418:A:N3	25:BA:1959:G:H1'	1.81	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:21:G:H2'	1:AA:22:G:C8	2.01	0.95
1:AA:484:G:H5'	1:AA:486:U:H1'	1.47	0.95
1:AA:834:C:O2'	1:AA:835:U:H5'	1.66	0.95
5:AE:16:HIS:CE1	5:AE:213:LEU:HD13	2.00	0.95
53:B5:38:LYS:O	53:B5:49:HIS:HB3	1.67	0.95
25:BA:142:G:H4'	45:BW:35:THR:HG21	1.46	0.95
25:BA:271(B):G:H5''	25:BA:271(C):U:O4'	1.66	0.95
25:BA:360:G:H2'	25:BA:361:G:H5'	1.47	0.95
25:BA:751:A:H5'	44:BV:90:ARG:CZ	1.96	0.95
25:BA:894:C:H2'	25:BA:895:U:C6	2.01	0.95
25:BA:972:G:H5''	25:BA:973:A:O3'	1.66	0.95
26:BB:37:C:H41	26:BB:44:G:H1	1.13	0.95
31:BG:32:PRO:HB2	31:BG:163:ALA:HA	1.46	0.95
31:BG:5:VAL:HG12	31:BG:9:ARG:HH22	1.31	0.95
35:BM:69:GLN:HE21	35:BM:69:GLN:N	1.64	0.95
36:BN:97:ARG:HG2	36:BN:117:LEU:HD21	0.96	0.95
37:BO:64:LYS:CE	37:BO:64:LYS:H	1.79	0.95
42:BT:28:ARG:HB2	42:BT:38:THR:HG21	1.45	0.95
46:BX:97:ARG:HA	46:BX:101:LYS:CG	1.96	0.95
1:AA:1080:A:H5'	8:AH:14:ARG:NH2	1.79	0.95
1:AA:197:A:H61	1:AA:221:C:H5'	1.31	0.95
8:AH:102:ALA:HB2	8:AH:120:THR:CG2	1.95	0.95
18:AR:75:PRO:O	18:AR:78:TYR:HB3	1.66	0.95
19:AS:39:TYR:CE1	19:AS:41:PRO:HG3	2.00	0.95
30:BF:201:VAL:CG1	30:BF:205:ARG:HH21	1.79	0.95
32:BH:43:VAL:CG2	32:BH:52:VAL:HA	1.95	0.95
26:BB:51:G:H5'	40:BR:60:GLY:HA2	1.47	0.95
46:BX:50:ARG:HA	46:BX:54:LYS:HA	1.46	0.95
1:AA:1256:A:H61	1:AA:1278:U:H2'	1.26	0.95
1:AA:648:A:H2'	1:AA:649:G:H5'	1.47	0.95
1:AA:677:U:H2'	1:AA:678:U:C6	2.01	0.95
5:AE:25:ASN:HD22	5:AE:25:ASN:C	1.70	0.95
7:AG:57:ARG:HH22	8:AH:107:ARG:NE	1.64	0.95
12:AL:119:ALA:O	12:AL:120:ARG:HG3	1.67	0.95
12:AL:47:LEU:HD21	12:AL:50:LEU:HD13	1.45	0.95
13:AM:24:VAL:HG21	13:AM:37:PRO:HD3	1.47	0.95
21:AU:36:ASN:O	21:AU:40:LEU:HG	1.65	0.95
25:BA:1695:G:H2'	25:BA:1696:G:H5'	1.45	0.95
25:BA:2219:G:H21	28:BD:262:ARG:HH21	1.12	0.95
25:BA:2266:A:H5''	25:BA:2267:A:O5'	1.66	0.95
25:BA:2384:G:H5''	25:BA:2386:C:OP1	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2418:A:H2'	25:BA:2419:U:O4'	1.66	0.95
25:BA:2712:U:C2'	25:BA:2712(A):A:H5''	1.96	0.95
25:BA:489:G:H21	25:BA:491:G:H1'	1.29	0.95
25:BA:618:G:H2'	25:BA:618(A):C:C6	2.01	0.95
29:BE:13:ARG:HG3	29:BE:22:PRO:CD	1.94	0.95
30:BF:122:LYS:HD2	30:BF:124:LEU:HD12	1.44	0.95
42:BT:91:ASP:OD2	43:BU:10:LYS:HD3	1.65	0.95
1:AA:1053:G:H5'	1:AA:1054:C:H5'	1.45	0.95
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.45	0.95
1:AA:1376:U:H3	1:AA:1377:A:H62	1.09	0.95
1:AA:764:C:H2'	1:AA:765:G:C8	2.02	0.95
25:BA:1543:A:H3'	25:BA:1544:C:C4'	1.97	0.95
25:BA:1555:G:OP2	25:BA:1555:G:H3'	1.65	0.95
25:BA:16:G:O2'	25:BA:17:G:H5'	1.66	0.95
25:BA:1883:G:H2'	25:BA:1884:A:N3	1.82	0.95
25:BA:2161:C:H2'	25:BA:2162:G:H8	1.31	0.95
25:BA:2213:U:C5'	25:BA:2215:G:N7	2.28	0.95
25:BA:2584:U:C6	25:BA:2584:U:H3'	2.00	0.95
25:BA:586:A:H5'	30:BF:89:VAL:HG21	0.98	0.95
33:BK:32:PRO:HG2	33:BK:33:ARG:H	1.28	0.95
36:BN:94:ARG:HG3	36:BN:95:GLY:N	1.78	0.95
38:BP:22:LYS:HB2	47:BY:79:ARG:NH2	1.82	0.95
38:BP:43:THR:HG23	38:BP:46:GLN:NE2	1.82	0.95
39:BQ:86:ARG:HH11	39:BQ:86:ARG:CB	1.80	0.95
40:BR:3:ARG:HG3	40:BR:4:LEU:HG	1.47	0.95
5:AE:67:THR:HB	5:AE:155:LEU:HD21	1.47	0.95
7:AG:105:VAL:HG21	7:AG:121:VAL:HG22	1.48	0.95
7:AG:59:ARG:NH2	7:AG:66:ARG:HH12	1.65	0.95
11:AK:36:LEU:H	11:AK:36:LEU:HD23	1.31	0.95
15:AO:41:ARG:NH1	15:AO:41:ARG:HB3	1.81	0.95
53:B5:20:ASN:ND2	53:B5:43:CYS:H	1.65	0.95
25:BA:2564:A:H2'	25:BA:2565:A:C8	2.01	0.95
25:BA:978:G:N2	25:BA:986:C:N3	2.14	0.95
26:BB:9:G:H4'	40:BR:43:GLU:OE2	1.65	0.95
25:BA:1665:A:C1'	36:BN:1:MET:HG2	1.97	0.95
39:BQ:9:LYS:O	39:BQ:10:LEU:HD23	1.65	0.95
40:BR:76:LYS:O	40:BR:80:LEU:HD23	1.64	0.95
40:BR:30:ARG:HG2	40:BR:91:PRO:HG3	1.48	0.95
42:BT:57:PHE:HA	42:BT:60:LEU:HD13	1.47	0.95
1:AA:994:A:N7	1:AA:1216:G:H4'	1.81	0.95
1:AA:1271:G:OP1	1:AA:1314:C:H5''	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:265:G:H2'	1:AA:267:C:H5	1.32	0.95
1:AA:691:G:H22	14:AN:51:LYS:NZ	1.64	0.95
1:AA:817:C:N4	1:AA:1529:G:O6	1.99	0.95
1:AA:888:G:N2	1:AA:909:A:H62	1.63	0.95
7:AG:59:ARG:HH22	7:AG:66:ARG:HH12	1.07	0.95
21:AU:63:GLN:HA	21:AU:66:LEU:CD2	1.97	0.95
23:AW:50:GLU:H	23:AW:99:LEU:HD12	1.30	0.95
25:BA:1964:G:C2	25:BA:1967:C:C5	2.55	0.95
25:BA:2889:C:H2'	25:BA:2891:G:C8	2.00	0.95
25:BA:296:C:H6	25:BA:338:G:H21	1.01	0.95
25:BA:410:G:H2'	25:BA:411:G:C8	2.02	0.95
25:BA:602:G:H8	25:BA:602:G:O5'	1.50	0.95
38:BP:66:ILE:CG2	38:BP:67:ARG:H	1.77	0.95
42:BT:88:ILE:H	43:BU:52:VAL:CG2	1.78	0.95
43:BU:14:VAL:HG12	43:BU:15:GLU:H	1.31	0.95
44:BV:4:LYS:HA	44:BV:106:ILE:CD1	1.96	0.95
34:BL:99:ILE:HG22	34:BL:100:THR:H	1.29	0.95
1:AA:12:U:H2'	1:AA:13:U:C5	2.00	0.95
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.01	0.95
1:AA:384:G:H2'	1:AA:385:C:C6	2.02	0.95
1:AA:558:G:C3'	1:AA:559:A:H5''	1.96	0.95
1:AA:652:U:H1'	1:AA:653:A:C2	2.01	0.95
1:AA:64:G:H4'	1:AA:65:U:H5''	1.46	0.95
1:AA:705:U:C5	1:AA:706:A:N7	2.35	0.95
5:AE:88:ALA:HB2	5:AE:219:VAL:CG1	1.96	0.95
6:AF:110:ASN:HD22	6:AF:141:VAL:HA	1.30	0.95
7:AG:130:GLY:HA3	7:AG:131:ARG:NH1	1.81	0.95
11:AK:6:ILE:HG23	11:AK:7:ALA:H	1.30	0.95
20:AT:62:SER:HB3	20:AT:72:ARG:HE	1.31	0.95
25:BA:1207:C:OP2	25:BA:1207:C:H6	1.49	0.95
25:BA:1785:A:H2'	25:BA:1786:A:N7	1.82	0.95
25:BA:2047:U:H2'	25:BA:2048:G:C8	2.00	0.95
25:BA:2311:A:H5''	25:BA:2312:U:C5	2.01	0.95
25:BA:95:G:H2'	49:B1:43:HIS:CE1	2.02	0.95
26:BB:100:G:H2'	26:BB:101:A:C8	2.01	0.95
29:BE:8:LYS:HG3	41:BS:7:ILE:HD11	1.49	0.95
31:BG:148:MET:HB3	31:BG:151:ALA:HA	1.45	0.95
37:BO:64:LYS:N	37:BO:64:LYS:HE2	1.82	0.95
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.46	0.95
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.02	0.95
1:AA:1514:C:H2'	1:AA:1515:C:H6	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:313:A:H2'	1:AA:314:C:C5	2.00	0.95
1:AA:511:C:HO2'	1:AA:512:U:H6	0.95	0.95
1:AA:722:A:H2'	1:AA:724:G:H8	1.27	0.95
5:AE:102:LEU:H	5:AE:102:LEU:HD12	1.32	0.95
7:AG:8:VAL:HG21	7:AG:115:ARG:HH22	1.28	0.95
5:AE:181:PHE:CD1	11:AK:71:GLY:HA3	2.02	0.95
11:AK:72:PRO:O	11:AK:73:ASP:HB3	1.67	0.95
25:BA:1814:G:H1'	28:BD:52:ARG:CZ	1.94	0.95
25:BA:280:C:H41	25:BA:283:A:H62	1.15	0.95
25:BA:627:A:H1'	25:BA:637:A:C6	2.01	0.95
32:BH:29:PRO:HD3	32:BH:79:VAL:HA	1.45	0.95
36:BN:85:VAL:O	36:BN:93:PRO:HD3	1.67	0.95
39:BQ:99:LYS:HD2	39:BQ:99:LYS:H	0.78	0.95
42:BT:108:GLU:HB2	42:BT:111:GLU:CD	1.87	0.95
1:AA:701:C:H4'	1:AA:702:A:O5'	1.63	0.95
7:AG:122:ARG:HA	7:AG:134:ASP:HB2	1.49	0.95
11:AK:46:LYS:HZ2	11:AK:64:LYS:HA	1.28	0.95
13:AM:6:ILE:HD11	13:AM:72:VAL:HB	1.49	0.95
20:AT:4:LYS:HD2	20:AT:5:VAL:H	1.31	0.95
25:BA:95:G:H2'	49:B1:43:HIS:HE1	1.31	0.95
25:BA:2371:G:C5'	53:B5:45:LYS:HB3	1.97	0.95
25:BA:2020:A:H2'	25:BA:2021:C:C5'	1.97	0.95
25:BA:2123:G:H4'	27:BC:172:HIS:CD2	2.01	0.95
25:BA:2655:G:O2'	25:BA:2656:U:H5	1.49	0.95
25:BA:339:U:H2'	25:BA:340:A:C8	2.01	0.95
25:BA:911:A:H2	38:BP:13:GLN:HG3	1.31	0.95
35:BM:116:LEU:HD23	35:BM:119:ARG:HB2	1.47	0.95
36:BN:63:VAL:CB	36:BN:78:ARG:HG3	1.97	0.95
43:BU:14:VAL:HG12	43:BU:15:GLU:N	1.80	0.95
43:BU:67:GLY:CA	43:BU:93:GLU:O	2.14	0.95
1:AA:1253:G:N1	1:AA:1285:A:N6	2.15	0.94
1:AA:1375:A:H2'	1:AA:1376:U:H6	1.24	0.94
15:AO:28:LYS:CE	15:AO:33:ARG:HH12	1.78	0.94
23:AW:57:ARG:HH12	23:AW:102:GLY:HA3	1.31	0.94
25:BA:2148:G:H2'	25:BA:2149:G:C8	2.01	0.94
25:BA:251:A:H2'	25:BA:252:G:O4'	1.67	0.94
25:BA:2674:G:H4'	36:BN:26:LYS:HZ3	1.30	0.94
25:BA:2720:U:H3'	25:BA:2721:A:C8	2.01	0.94
25:BA:282:A:C5	25:BA:283:A:H4'	2.02	0.94
25:BA:80:G:O4'	25:BA:347:A:N6	2.00	0.94
25:BA:470:A:N3	25:BA:471:A:H1'	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:575:A:C2'	25:BA:576:U:H5'	1.95	0.94
25:BA:918:A:H8	26:BB:80:U:HO2'	0.95	0.94
28:BD:181:GLU:HG2	28:BD:268:ARG:NE	1.81	0.94
28:BD:27:THR:C	28:BD:29:PRO:HD2	1.87	0.94
4:A1:15:A:H5''	4:A1:15:A:C8	2.02	0.94
6:AF:66:VAL:O	6:AF:102:ASN:HB2	1.66	0.94
50:B2:50:VAL:HG13	50:B2:53:LEU:CG	1.96	0.94
50:B2:50:VAL:HG22	50:B2:53:LEU:HD12	1.46	0.94
25:BA:1203:G:C6	25:BA:1241:A:C4	2.55	0.94
25:BA:1298:C:H1'	25:BA:1302:A:N7	1.81	0.94
25:BA:1692:U:H1'	25:BA:1696:G:N2	1.81	0.94
25:BA:1780:A:H3'	25:BA:1781:C:H5'	0.95	0.94
25:BA:2352:A:H2'	25:BA:2353:G:O4'	1.65	0.94
25:BA:2431:U:H2'	25:BA:2432:A:H5''	0.97	0.94
25:BA:2525:G:H5'	25:BA:2526:G:OP2	1.66	0.94
25:BA:265:A:H3'	25:BA:265:A:H8	1.29	0.94
25:BA:349:G:H2'	25:BA:350:U:C6	2.03	0.94
25:BA:511:U:C5	25:BA:512:G:N3	2.35	0.94
25:BA:585:G:H2'	25:BA:1251:C:H41	1.31	0.94
26:BB:37:C:N4	26:BB:44:G:H1	1.65	0.94
28:BD:5:LYS:NZ	28:BD:29:PRO:HA	1.81	0.94
31:BG:57:ALA:HA	31:BG:68:PRO:CD	1.97	0.94
25:BA:2312:U:OP1	31:BG:86:MET:HG3	1.66	0.94
32:BH:91:GLY:H	32:BH:94:TYR:HD1	1.11	0.94
36:BN:9:GLU:HB2	36:BN:81:ASP:O	1.67	0.94
1:AA:482:A:H2	1:AA:483:C:O4'	1.50	0.94
8:AH:7:GLU:O	8:AH:34:VAL:HG13	1.67	0.94
11:AK:29:SER:CB	11:AK:32:LYS:HZ1	1.80	0.94
12:AL:110:GLU:O	12:AL:111:ARG:HB2	1.66	0.94
25:BA:1368:G:H2'	25:BA:1369:G:H8	1.30	0.94
25:BA:1746:G:OP2	25:BA:1746:G:H3'	1.67	0.94
25:BA:2345:G:N7	25:BA:2371:G:N2	2.15	0.94
25:BA:2329:G:H1	25:BA:2386:C:H42	1.01	0.94
25:BA:2749:A:C5	25:BA:2750:A:N7	2.35	0.94
25:BA:29:U:H2'	25:BA:30:G:H8	1.30	0.94
25:BA:349:G:H2'	25:BA:350:U:C5	2.03	0.94
25:BA:527:C:OP1	25:BA:527:C:H4'	1.63	0.94
25:BA:616:A:H3'	25:BA:616:A:OP2	1.68	0.94
26:BB:71:C:H2'	26:BB:72:G:H5'	1.47	0.94
30:BF:153:SER:HA	30:BF:172:TRP:O	1.67	0.94
35:BM:66:LYS:HA	35:BM:87:LEU:HD11	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BR:9:ARG:HA	40:BR:9:ARG:HH11	1.26	0.94
41:BS:64:ARG:HD3	41:BS:65:LYS:H	0.79	0.94
45:BW:92:LEU:O	45:BW:95:LEU:HB2	1.64	0.94
1:AA:791:G:O6	4:A1:15:A:N1	1.99	0.94
5:AE:15:VAL:HG21	5:AE:209:ARG:HD2	1.44	0.94
7:AG:187:ARG:HG3	7:AG:188:LEU:N	1.78	0.94
16:AP:13:LYS:HA	16:AP:44:ARG:CZ	1.96	0.94
16:AP:91:ARG:HB3	16:AP:98:VAL:HG22	1.48	0.94
50:B2:45:GLY:HA2	50:B2:48:GLU:CD	1.86	0.94
51:B3:5:ILE:HD13	51:B3:60:GLN:NE2	1.82	0.94
52:B4:20:ARG:O	52:B4:23:HIS:HB2	1.67	0.94
55:B7:36:LYS:HE3	55:B7:40:GLU:OE2	1.66	0.94
25:BA:1508:A:H5''	25:BA:1510:A:C5	2.01	0.94
25:BA:1565:C:H5	28:BD:84:TYR:HH	1.15	0.94
25:BA:1613:G:H2'	25:BA:1617:C:H42	1.29	0.94
25:BA:898:C:H5'	25:BA:899:A:OP2	1.67	0.94
32:BH:144:VAL:O	32:BH:147:ASN:HB2	1.66	0.94
1:AA:1028:C:H2'	1:AA:1028(A):C:C6	2.02	0.94
1:AA:337:C:H2'	1:AA:338:A:H8	1.33	0.94
12:AL:117:HIS:HD2	12:AL:121:ARG:HG2	1.29	0.94
15:AO:117:ARG:NH2	15:AO:124:LYS:HA	1.83	0.94
19:AS:57:ARG:HA	19:AS:60:LEU:HD12	1.46	0.94
25:BA:1259:G:H2'	25:BA:1260:G:C8	2.00	0.94
25:BA:125:G:H22	54:B6:10:ARG:HA	1.32	0.94
25:BA:1533:C:C2	25:BA:1539:G:N2	2.36	0.94
25:BA:1647:G:OP2	25:BA:1647:G:H3'	1.65	0.94
25:BA:1697:G:H5''	25:BA:1698:A:C5'	1.97	0.94
25:BA:1967:C:N4	25:BA:1968:G:N2	2.15	0.94
25:BA:2392:A:H2'	25:BA:2393:A:C5'	1.98	0.94
25:BA:503:A:H4'	25:BA:504:U:C5'	1.98	0.94
27:BC:86:ALA:HB2	27:BC:149:ILE:HG12	1.49	0.94
27:BC:32:LEU:HB3	27:BC:220:PRO:HG2	1.46	0.94
28:BD:157:ARG:HH11	28:BD:178:PRO:HG3	1.29	0.94
32:BH:35:VAL:CG1	32:BH:72:ILE:HA	1.97	0.94
36:BN:99:PHE:HD2	36:BN:100:GLY:H	1.12	0.94
38:BP:37:LEU:HG	38:BP:129:THR:HA	1.49	0.94
41:BS:52:ILE:HA	41:BS:66:VAL:HG13	1.46	0.94
41:BS:50:ILE:HG23	41:BS:68:TYR:CB	1.98	0.94
43:BU:23:GLU:HB2	43:BU:93:GLU:CA	1.96	0.94
44:BV:5:ALA:HB3	44:BV:105:VAL:O	1.66	0.94
1:AA:828:A:N1	1:AA:859:A:O4'	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:40:LYS:HZ2	20:AT:40:LYS:HB2	1.31	0.94
25:BA:1777:U:O2'	25:BA:1778:U:H5'	1.67	0.94
25:BA:1931:U:O2'	25:BA:1932:A:H5'	1.67	0.94
25:BA:2330:G:H1	25:BA:2385:C:H42	1.15	0.94
32:BH:23:ARG:HH22	32:BH:36:PRO:HD3	1.32	0.94
1:AA:1184:G:H2'	1:AA:1185:G:C8	2.03	0.94
1:AA:1494:G:HO2'	1:AA:1495:U:H5	0.97	0.94
16:AP:67:GLU:HG3	16:AP:68:GLY:H	1.33	0.94
23:AW:51:GLU:HA	23:AW:54:LYS:CD	1.98	0.94
53:B5:35:GLU:HG3	53:B5:52:VAL:HG22	1.50	0.94
25:BA:2265:U:H3	25:BA:2266:A:N6	1.66	0.94
25:BA:2336:A:H2	48:BZ:57:PHE:HZ	1.14	0.94
25:BA:2564:A:H2'	25:BA:2565:A:H8	1.28	0.94
25:BA:728:G:HO2'	25:BA:729:G:H5''	1.27	0.94
26:BB:44:G:H5''	26:BB:45:A:OP1	1.67	0.94
28:BD:196:VAL:HG12	28:BD:197:GLY:H	0.81	0.94
25:BA:2821:A:H5''	29:BE:110:GLY:HA3	1.46	0.94
29:BE:9:VAL:HG12	29:BE:192:ASN:ND2	1.83	0.94
38:BP:50:ALA:HB1	38:BP:121:ALA:HB1	1.48	0.94
38:BP:25:ASP:CB	38:BP:102:VAL:HG12	1.96	0.94
46:BX:82:PRO:HG3	46:BX:97:ARG:N	1.82	0.94
47:BY:76:LEU:HG	47:BY:83:PRO:HB3	1.45	0.94
1:AA:137:C:H2'	1:AA:138:G:H5'	1.47	0.94
18:AR:49:ASP:OD1	18:AR:52:SER:HB2	1.67	0.94
20:AT:10:VAL:O	20:AT:53:LEU:HD12	1.66	0.94
25:BA:1791:A:O4'	28:BD:209:ALA:HB2	1.67	0.94
25:BA:2840:C:O2'	25:BA:2841:C:H5'	1.67	0.94
25:BA:344:G:H2'	25:BA:345:A:C1'	1.97	0.94
25:BA:627:A:C6	25:BA:637:A:H1'	2.03	0.94
39:BQ:55:ALA:HB1	39:BQ:79:LEU:HD21	1.50	0.94
42:BT:105:VAL:O	42:BT:108:GLU:OE1	1.84	0.94
44:BV:95:ILE:H	44:BV:95:ILE:HD12	1.30	0.94
38:BP:137:TYR:OH	47:BY:123:ASP:HB3	1.67	0.94
1:AA:643:C:H5'	11:AK:31:PHE:CE1	2.03	0.94
5:AE:16:HIS:O	5:AE:204:ASN:HB2	1.68	0.94
5:AE:69:LEU:HB2	5:AE:159:PRO:HB2	1.47	0.94
10:AJ:78:ARG:O	10:AJ:84:ASN:HA	1.68	0.94
55:B7:15:LYS:O	55:B7:22:VAL:HA	1.65	0.94
25:BA:270(G):C:H2'	25:BA:270(H):C:C6	2.03	0.94
25:BA:2825:C:H42	25:BA:2826:A:N6	1.66	0.94
25:BA:470:A:OP1	25:BA:470:A:H4'	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:612:G:H4'	25:BA:616:A:H61	1.29	0.94
29:BE:151:TYR:CZ	29:BE:152:LYS:HG3	2.02	0.94
29:BE:195:LEU:HD13	29:BE:196:VAL:N	1.83	0.94
30:BF:25:PRO:O	30:BF:28:ILE:HG22	1.68	0.94
37:BO:91:PHE:O	37:BO:95:VAL:HB	1.68	0.94
43:BU:62:LEU:HD22	43:BU:98:GLU:HA	1.44	0.94
44:BV:16:LYS:HZ2	44:BV:16:LYS:H	0.96	0.94
1:AA:1125:U:H5	13:AM:5:ARG:HH22	1.05	0.94
1:AA:192:U:H1'	23:AW:103:GLY:HA2	1.47	0.94
1:AA:961:U:H5	1:AA:983:A:C5	1.84	0.94
9:AI:75:LEU:CD1	9:AI:79:LEU:HD21	1.98	0.94
55:B7:16:ILE:HG13	55:B7:22:VAL:CG2	1.98	0.94
25:BA:1685:C:O2'	25:BA:1686:C:H5'	1.66	0.94
25:BA:1799:G:N2	28:BD:157:ARG:HH22	1.65	0.94
25:BA:1819:A:H1'	25:BA:1821:A:C2	2.03	0.94
25:BA:2126:A:H4'	25:BA:2127:G:O5'	1.66	0.94
25:BA:2284:C:OP1	53:B5:7:ILE:HG21	1.66	0.94
25:BA:2700:C:C2'	25:BA:2701:C:H5''	1.98	0.94
25:BA:270(N):G:H5''	25:BA:270(O):U:H5	1.32	0.94
37:BO:114:ILE:HG21	37:BO:134:ALA:CB	1.98	0.94
45:BW:13:LEU:HB3	45:BW:96:ILE:HG12	1.48	0.94
1:AA:1425:U:H2'	1:AA:1426:C:H6	1.33	0.94
1:AA:265:G:O2'	1:AA:266:G:H5'	1.67	0.94
5:AE:70:PHE:CD2	5:AE:163:PHE:HB3	2.03	0.94
5:AE:204:ASN:HD22	5:AE:205:ASP:H	0.96	0.94
21:AU:49:LYS:N	21:AU:49:LYS:HD2	1.76	0.94
25:BA:988:A:N7	50:B2:13:ILE:HG13	1.83	0.94
25:BA:1173:G:H1'	25:BA:1177:A:H61	1.32	0.94
25:BA:1203:G:H1	25:BA:1241:A:C1'	1.81	0.94
25:BA:1473:G:O2'	25:BA:1474:C:H5'	1.67	0.94
25:BA:832:G:H8	25:BA:944:G:H21	1.06	0.94
26:BB:68:C:H2'	26:BB:69:G:H8	1.32	0.94
28:BD:120:GLY:O	28:BD:122:ASP:N	2.01	0.94
28:BD:154:LYS:O	28:BD:155:LEU:HB3	1.67	0.94
31:BG:43:LEU:HD12	31:BG:88:ILE:HG22	1.48	0.94
32:BH:87:LEU:H	32:BH:132:ARG:HB3	1.33	0.94
40:BR:62:LYS:HB2	40:BR:65:VAL:HG13	1.49	0.94
42:BT:44:ASN:HD22	43:BU:78:LYS:H	1.05	0.94
47:BY:55:HIS:HB2	47:BY:101:PRO:HG3	1.50	0.94
29:BE:1:MET:HG2	29:BE:1:MET:O	1.66	0.94
5:AE:230:VAL:HG12	5:AE:231:GLU:H	1.33	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:322:C:H42	1:AA:329:A:H62	1.11	0.93
12:AL:45:ALA:O	12:AL:78:LYS:HB2	1.68	0.93
16:AP:55:ARG:HH21	16:AP:56:LEU:HD21	1.28	0.93
1:AA:266:G:H8	20:AT:67:LYS:HZ3	1.01	0.93
20:AT:83:ASP:O	20:AT:86:GLU:HB2	1.67	0.93
25:BA:1179:C:O2'	25:BA:1180:C:O5'	1.86	0.93
25:BA:1309:G:OP2	54:B6:9:ARG:HD2	1.67	0.93
25:BA:2207:C:H2'	25:BA:2208:U:H4'	1.48	0.93
25:BA:457:A:H1'	25:BA:459:U:H3	1.33	0.93
25:BA:972:G:H3'	25:BA:973:A:H5'	1.47	0.93
27:BC:64:LEU:HG	27:BC:161:ILE:CD1	1.98	0.93
30:BF:192:LEU:HD11	30:BF:194:MET:HG3	1.49	0.93
32:BH:87:LEU:H	32:BH:132:ARG:CB	1.80	0.93
37:BO:124:LYS:HB2	37:BO:143:GLY:HA3	1.48	0.93
41:BS:57:PHE:HA	41:BS:61:PHE:CD2	2.02	0.93
42:BT:50:ARG:HH11	42:BT:50:ARG:HB2	0.80	0.93
48:BZ:19:LYS:HG2	48:BZ:20:ARG:H	1.30	0.93
7:AG:98:GLU:O	7:AG:100:ARG:N	2.01	0.93
14:AN:58:PRO:O	14:AN:61:ALA:HB3	1.66	0.93
1:AA:333:G:H4'	23:AW:16:HIS:NE2	1.82	0.93
51:B3:55:ARG:O	51:B3:61:ARG:NH2	2.00	0.93
26:BB:14:U:H1'	26:BB:107:U:C1'	1.97	0.93
29:BE:26:ILE:HB	29:BE:181:LEU:CD2	1.98	0.93
35:BM:120:LEU:HD11	35:BM:122:VAL:HG12	1.50	0.93
1:AA:1278:U:H4'	1:AA:1279:A:O4'	1.69	0.93
1:AA:52:G:O2'	1:AA:53:A:H5'	1.68	0.93
7:AG:187:ARG:HG3	7:AG:188:LEU:H	1.28	0.93
7:AG:3:ARG:NE	7:AG:71:SER:H	1.65	0.93
8:AH:144:THR:HG22	8:AH:146:ALA:H	1.33	0.93
14:AN:57:THR:HG23	14:AN:60:ALA:H	1.30	0.93
16:AP:37:THR:OG1	16:AP:56:LEU:HA	1.68	0.93
19:AS:3:LYS:CD	19:AS:24:ALA:HB2	1.97	0.93
25:BA:1993:U:C6	25:BA:1993:U:H3'	2.01	0.93
25:BA:2020:A:H2'	25:BA:2021:C:H5''	1.50	0.93
25:BA:2119:A:H4'	25:BA:2120:G:OP1	1.66	0.93
28:BD:198:ASN:ND2	28:BD:201:HIS:HB3	1.83	0.93
28:BD:237:GLU:HB3	28:BD:239:ARG:HD2	1.50	0.93
29:BE:49:LEU:HD22	29:BE:76:ARG:C	1.89	0.93
42:BT:32:PHE:O	42:BT:36:ARG:HG2	1.69	0.93
42:BT:65:ILE:CD1	42:BT:96:ALA:HB2	1.98	0.93
34:BL:132:ARG:HH21	34:BL:138:VAL:HG11	1.34	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:553:A:H2'	1:AA:554:C:C6	2.04	0.93
1:AA:570:G:H2'	1:AA:571:U:H5	1.30	0.93
1:AA:583:A:H2'	1:AA:584:G:C8	2.04	0.93
2:AC:9:G:N2	2:AC:45:G:C8	2.37	0.93
6:AF:72:LYS:O	6:AF:76:VAL:HG21	1.67	0.93
8:AH:27:ARG:NH2	8:AH:47:LYS:HB3	1.83	0.93
23:AW:11:SER:HA	23:AW:13:LEU:HD11	1.49	0.93
51:B3:66:SER:HA	51:B3:69:LYS:HD2	1.49	0.93
25:BA:1559:G:C6	25:BA:1560:G:H4'	2.03	0.93
25:BA:162:U:H5''	25:BA:163:U:OP2	1.67	0.93
25:BA:1913:A:C2	25:BA:1917:U:H5	1.85	0.93
25:BA:52:A:H62	25:BA:119:A:H62	1.05	0.93
25:BA:740:U:O4	25:BA:758:C:H1'	1.68	0.93
25:BA:809:G:C5	25:BA:810:U:H5	1.85	0.93
25:BA:976:C:N4	25:BA:988:A:C2	2.35	0.93
27:BC:10:LEU:HD21	27:BC:33:ALA:HB2	1.48	0.93
29:BE:33:VAL:HG22	29:BE:47:VAL:O	1.69	0.93
25:BA:2787:C:H1'	29:BE:61:ARG:CD	1.99	0.93
31:BG:75:LYS:NZ	31:BG:85:GLY:HA3	1.83	0.93
37:BO:77:ARG:HD3	37:BO:115:LEU:HD23	1.50	0.93
42:BT:25:TRP:HE3	42:BT:26:GLY:O	1.51	0.93
47:BY:95:PRO:HD2	47:BY:130:PRO:HA	1.51	0.93
33:BK:66:GLU:HG3	33:BK:69:LYS:NZ	1.84	0.93
1:AA:281:G:HO2'	1:AA:282:A:H8	0.93	0.93
5:AE:55:PHE:CE2	5:AE:218:ALA:HA	2.03	0.93
11:AK:18:ARG:HA	11:AK:18:ARG:NH1	1.82	0.93
23:AW:63:ILE:CD1	23:AW:80:ARG:HB3	1.97	0.93
50:B2:41:PRO:HG3	50:B2:44:ARG:HH11	1.34	0.93
25:BA:70:G:H3'	25:BA:113:G:O2'	1.69	0.93
25:BA:1598:C:H5''	45:BW:36:LYS:HB3	1.50	0.93
25:BA:1697:G:H3'	25:BA:1698:A:C5'	1.97	0.93
25:BA:1718:G:N2	25:BA:1742:C:N3	2.16	0.93
25:BA:2253:G:H2'	25:BA:2254:C:H6	1.34	0.93
25:BA:2576:G:H4'	25:BA:2577:A:H5'	1.47	0.93
25:BA:1566:A:C2	28:BD:215:LEU:HD13	2.03	0.93
30:BF:69:HIS:O	30:BF:69:HIS:ND1	2.02	0.93
30:BF:6:VAL:CG1	30:BF:20:LEU:HD11	1.98	0.93
35:BM:89:LYS:CE	35:BM:89:LYS:N	2.28	0.93
37:BO:72:PRO:HB2	37:BO:111:ARG:CB	1.99	0.93
40:BR:9:ARG:HH11	40:BR:9:ARG:CB	1.81	0.93
41:BS:68:TYR:CZ	41:BS:70:VAL:HG22	2.04	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:8:VAL:HA	42:BT:11:ARG:HD2	1.51	0.93
42:BT:15:LYS:O	42:BT:18:LEU:HG	1.67	0.93
25:BA:1086:A:OP1	25:BA:1104:C:H4'	1.69	0.93
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.04	0.93
1:AA:1226:C:H5''	16:AP:103:THR:O	1.68	0.93
1:AA:1289:A:N6	1:AA:1371:G:O2'	2.02	0.93
1:AA:164:U:H2'	1:AA:165:C:C5	2.04	0.93
1:AA:17:U:H2'	1:AA:18:C:H6	1.34	0.93
1:AA:197:A:N6	1:AA:221:C:H5'	1.84	0.93
1:AA:19:C:H1'	1:AA:864:A:N3	1.83	0.93
5:AE:80:ILE:HG22	5:AE:215:LEU:HD12	1.47	0.93
7:AG:176:LEU:HD11	7:AG:178:VAL:HG22	1.50	0.93
1:AA:528:C:N4	15:AO:49:ASN:ND2	2.16	0.93
24:AX:4:GLY:C	24:AX:6:ARG:H	1.68	0.93
25:BA:1510:A:N3	25:BA:1511:A:H2	1.66	0.93
25:BA:641:C:N4	25:BA:646:A:H61	1.66	0.93
25:BA:881:G:H22	25:BA:896:A:N6	1.67	0.93
28:BD:85:ASP:HB2	28:BD:87:ASN:HD21	1.33	0.93
29:BE:149:ARG:NE	29:BE:150:VAL:O	2.02	0.93
25:BA:2786:U:O2'	29:BE:64:LYS:HB2	1.67	0.93
30:BF:152:GLU:OE1	30:BF:191:ARG:HD2	1.67	0.93
31:BG:102:PHE:CD2	31:BG:106:LEU:HD12	2.02	0.93
35:BM:89:LYS:CE	35:BM:89:LYS:H	1.81	0.93
39:BQ:79:LEU:HD23	39:BQ:80:PHE:N	1.82	0.93
41:BS:96:ARG:HD3	41:BS:117:ASP:OD2	1.66	0.93
1:AA:673:G:H2'	1:AA:674:G:C8	2.04	0.93
7:AG:134:ASP:O	7:AG:136:PRO:HD3	1.69	0.93
12:AL:42:ARG:HB3	12:AL:74:ILE:HD13	1.50	0.93
16:AP:10:PRO:HG2	16:AP:18:ALA:HB1	1.48	0.93
19:AS:5:ARG:HH12	19:AS:24:ALA:HA	1.31	0.93
53:B5:16:CYS:SG	53:B5:19:ARG:CZ	2.57	0.93
53:B5:17:LYS:CE	53:B5:48:VAL:HG13	1.99	0.93
25:BA:1203:G:N1	25:BA:1241:A:C4	2.37	0.93
25:BA:551:G:H5'	25:BA:552:G:OP2	1.69	0.93
25:BA:739:G:O3'	25:BA:1784:A:C2	2.20	0.93
28:BD:119:ALA:HB2	28:BD:130:ALA:H	1.33	0.93
35:BM:91:LEU:O	35:BM:95:PRO:HD3	1.68	0.93
25:BA:1665:A:H5'	36:BN:66:LYS:HB2	1.50	0.93
43:BU:11:GLN:HE22	43:BU:24:LYS:CE	1.81	0.93
47:BY:151:HIS:HB2	47:BY:168:GLU:HG2	1.49	0.93
1:AA:1054:C:H2'	1:AA:1055:A:H5''	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:150:LYS:HG2	6:AF:169:ALA:HB2	1.51	0.93
7:AG:57:ARG:NH2	8:AH:107:ARG:HE	1.65	0.93
9:AI:19:LEU:HG	9:AI:23:LYS:HD2	1.51	0.93
11:AK:46:LYS:CE	11:AK:64:LYS:HA	1.98	0.93
18:AR:65:ARG:O	18:AR:68:ARG:HB3	1.66	0.93
20:AT:62:SER:HB3	20:AT:72:ARG:NE	1.84	0.93
25:BA:1144:G:H2'	25:BA:1145:C:H6	1.33	0.93
25:BA:1342:A:C2'	25:BA:1345:C:H41	1.81	0.93
25:BA:221:A:C4'	25:BA:222:A:H5'	1.97	0.93
27:BC:62:VAL:CB	27:BC:195:ALA:HB2	1.99	0.93
28:BD:142:VAL:HG12	28:BD:193:VAL:HA	1.50	0.93
33:BK:5:LEU:HD13	33:BK:8:PRO:HB2	1.50	0.93
25:BA:1007:C:O3'	35:BM:108:PRO:HG3	1.68	0.93
36:BN:63:VAL:O	36:BN:64:ARG:HB3	1.68	0.93
37:BO:45:LEU:HD13	55:B7:59:LYS:HE3	1.51	0.93
37:BO:46:LYS:CE	37:BO:46:LYS:H	1.80	0.93
43:BU:69:LYS:O	43:BU:91:TYR:O	1.86	0.93
45:BW:44:GLU:HG3	45:BW:51:VAL:HG23	1.49	0.93
46:BX:1:MET:HA	46:BX:33:LYS:HG3	1.48	0.93
46:BX:2:ARG:HD2	46:BX:3:VAL:HG23	1.51	0.93
47:BY:48:PHE:HB3	47:BY:54:HIS:CE1	2.03	0.93
1:AA:517:G:O2'	1:AA:530:G:H4'	1.69	0.93
6:AF:113:ALA:HB2	6:AF:202:ILE:HG13	1.50	0.93
25:BA:1312:U:H5'	45:BW:63:LYS:HZ2	1.33	0.93
25:BA:1272:A:N7	25:BA:1618:A:H1'	1.84	0.93
25:BA:965:C:H5'	25:BA:2273:A:H1'	0.94	0.93
25:BA:704:G:N2	25:BA:726:G:H1'	1.84	0.93
25:BA:930:U:H4'	25:BA:931:G:O5'	1.68	0.93
31:BG:57:ALA:HA	31:BG:68:PRO:HD2	1.48	0.93
32:BH:7:LEU:HD23	32:BH:8:PRO:HD3	1.51	0.93
25:BA:2250:G:N7	38:BP:83:MET:O	2.01	0.93
43:BU:2:PHE:HB3	43:BU:13:ARG:HH22	1.32	0.93
44:BV:36:LEU:HD21	44:BV:47:VAL:HB	1.50	0.93
45:BW:73:ARG:HG2	45:BW:74:PRO:HD2	1.48	0.93
1:AA:1198:G:H2'	1:AA:1199:U:O4'	1.69	0.93
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.02	0.93
1:AA:174:C:H2'	1:AA:175:C:H6	1.32	0.93
1:AA:517:G:H5'	1:AA:519:C:N4	1.84	0.93
5:AE:101:MET:HA	5:AE:108:ILE:CG1	1.98	0.93
7:AG:154:ASN:H	7:AG:154:ASN:HD22	1.16	0.93
21:AU:34:TYR:CD1	21:AU:35:ARG:HG3	2.04	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:25:ARG:O	23:AW:28:ALA:HB3	1.69	0.93
25:BA:1992:G:HO2'	25:BA:1993:U:H5	0.93	0.93
25:BA:215:G:H4'	25:BA:216:A:O5'	1.69	0.93
25:BA:2711:A:C5'	25:BA:2712:U:H5'	1.99	0.93
28:BD:151:LYS:HB2	28:BD:154:LYS:NZ	1.82	0.93
28:BD:77:ALA:HB1	28:BD:96:HIS:O	1.68	0.93
30:BF:37:VAL:HA	30:BF:184:TYR:CE2	2.03	0.93
16:AP:7:VAL:HG13	31:BG:114:ILE:HD13	1.50	0.93
40:BR:57:LYS:HG3	40:BR:68:GLN:OE1	1.69	0.93
41:BS:92:GLY:C	41:BS:93:ARG:HD2	1.88	0.93
47:BY:127:LYS:HA	47:BY:164:ALA:H	1.33	0.93
34:BL:10:LEU:CD1	34:BL:12:LEU:HD11	1.98	0.93
11:AK:12:ARG:NH1	11:AK:27:PRO:HD3	1.83	0.92
19:AS:3:LYS:HD2	19:AS:24:ALA:CB	1.98	0.92
51:B3:57:GLU:O	51:B3:61:ARG:HB2	1.69	0.92
25:BA:1152:C:O2'	25:BA:1153:C:H5'	1.69	0.92
25:BA:1664:A:H2'	25:BA:1665:A:N7	1.83	0.92
25:BA:2207:C:H3'	25:BA:2208:U:H5''	1.47	0.92
25:BA:2329:G:H1	25:BA:2386:C:N4	1.66	0.92
28:BD:55:GLY:HA2	28:BD:217:ARG:NH2	1.82	0.92
29:BE:109:LYS:HG2	29:BE:191:PRO:HG3	1.51	0.92
30:BF:41:LEU:HB2	30:BF:44:ARG:HH11	1.32	0.92
31:BG:74:LYS:CE	31:BG:75:LYS:HE3	1.96	0.92
36:BN:39:ILE:HG12	36:BN:59:LYS:NZ	1.82	0.92
36:BN:85:VAL:HB	36:BN:93:PRO:HG3	1.49	0.92
25:BA:811:U:H5	37:BO:24:GLY:CA	1.83	0.92
45:BW:50:LYS:HZ2	45:BW:85:PRO:HD2	1.34	0.92
26:BB:89:G:H2'	26:BB:89(A):A:C8	2.04	0.92
1:AA:763:G:H2'	1:AA:764:C:H6	1.31	0.92
1:AA:913:A:O2'	1:AA:914:A:O4'	1.88	0.92
10:AJ:45:ASP:HB2	10:AJ:117:ALA:CB	1.97	0.92
11:AK:86:ILE:HG21	11:AK:133:LEU:HB2	1.51	0.92
13:AM:79:ARG:HH12	13:AM:82:ILE:CD1	1.82	0.92
15:AO:84:LEU:HB3	15:AO:104:VAL:HG11	1.50	0.92
18:AR:76:GLU:HA	18:AR:79:ARG:NH2	1.84	0.92
51:B3:68:ARG:HB2	51:B3:68:ARG:NH1	1.83	0.92
53:B5:17:LYS:HE3	53:B5:48:VAL:HG13	1.50	0.92
54:B6:17:GLY:H	54:B6:21:ARG:NH2	1.67	0.92
25:BA:242:G:C8	55:B7:4:MET:HG3	2.03	0.92
25:BA:1260:G:C2'	25:BA:1261:C:H5'	1.99	0.92
25:BA:1593:G:H2'	25:BA:1594:G:H8	1.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1967:C:H42	25:BA:1968:G:H21	1.11	0.92
25:BA:1995:U:H3'	25:BA:1995:U:C6	2.04	0.92
25:BA:2498:C:O2'	25:BA:2499:C:H5''	1.68	0.92
25:BA:2699:C:O2'	25:BA:2700:C:H5'	1.69	0.92
25:BA:2805:G:C3'	25:BA:2807:G:H5''	1.98	0.92
25:BA:455:C:H4'	25:BA:456:C:OP1	1.68	0.92
25:BA:2219:G:N2	28:BD:262:ARG:NH2	2.16	0.92
25:BA:1112:G:OP1	32:BH:4:ILE:HG12	1.67	0.92
37:BO:72:PRO:HB2	37:BO:111:ARG:HB3	1.51	0.92
40:BR:3:ARG:O	40:BR:7:TYR:HB2	1.69	0.92
25:BA:1161:C:H1'	43:BU:22:VAL:HG11	1.50	0.92
46:BX:32:PRO:HB2	46:BX:34:LYS:HE3	1.52	0.92
46:BX:42:VAL:H	46:BX:61:ILE:CB	1.82	0.92
1:AA:1064:G:H1'	1:AA:1066:C:N3	1.84	0.92
1:AA:404:U:H5'	7:AG:122:ARG:HH11	1.34	0.92
12:AL:111:ARG:O	12:AL:119:ALA:HB2	1.68	0.92
19:AS:44:THR:HG23	19:AS:45:THR:N	1.84	0.92
25:BA:1142:U:C6	25:BA:1142(A):A:H8	1.87	0.92
25:BA:580:C:H2'	25:BA:581:C:C6	2.04	0.92
29:BE:97:LYS:O	29:BE:100:GLU:HB2	1.68	0.92
36:BN:64:ARG:HH22	36:BN:68:GLU:CA	1.83	0.92
36:BN:76:ALA:HA	41:BS:77:PRO:HD2	1.51	0.92
38:BP:22:LYS:CD	38:BP:23:GLY:H	1.83	0.92
39:BQ:99:LYS:HG2	52:B4:43:HIS:CE1	2.03	0.92
40:BR:74:ALA:HB2	40:BR:104:GLY:O	1.68	0.92
41:BS:41:ARG:NE	41:BS:41:ARG:H	1.66	0.92
43:BU:68:LYS:HG2	43:BU:95:LEU:HD21	1.52	0.92
1:AA:1534:A:H2'	1:AA:1535:C:C6	2.04	0.92
9:AI:12:PRO:HB3	9:AI:58:GLY:HA2	1.52	0.92
15:AO:25:PRO:C	15:AO:27:LEU:H	1.66	0.92
20:AT:36:ILE:O	20:AT:36:ILE:HG12	1.70	0.92
25:BA:2548:G:H8	25:BA:2548:G:H5'	1.33	0.92
25:BA:269:U:H3	25:BA:270:A:H62	0.95	0.92
25:BA:472:A:H2'	25:BA:473:G:C5'	1.99	0.92
25:BA:510:C:P	25:BA:512:G:H1	1.91	0.92
25:BA:786:C:C2'	25:BA:787:U:H5'	2.00	0.92
25:BA:916:G:H21	25:BA:917:A:N6	1.66	0.92
28:BD:137:PRO:HG2	28:BD:140:THR:HG21	1.49	0.92
28:BD:157:ARG:NH1	28:BD:178:PRO:HG3	1.84	0.92
25:BA:2598:A:OP1	28:BD:241:PRO:HG3	1.68	0.92
35:BM:57:ALA:H	35:BM:124:ALA:HA	1.32	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:22:LYS:HD2	38:BP:99:PRO:CG	1.98	0.92
41:BS:105:LEU:HG	41:BS:106:SER:N	1.83	0.92
41:BS:54:ARG:N	41:BS:64:ARG:HB3	1.84	0.92
43:BU:20:LEU:HD22	43:BU:95:LEU:CD1	1.98	0.92
46:BX:47:LYS:HB2	46:BX:49:VAL:HG22	1.47	0.92
1:AA:781:A:H2'	1:AA:782:A:C5'	1.99	0.92
5:AE:18:GLY:HA2	5:AE:42:ILE:H	1.35	0.92
8:AH:147:ASP:HA	8:AH:150:ARG:HB2	1.50	0.92
8:AH:81:GLU:HB3	8:AH:90:VAL:HG23	1.51	0.92
11:AK:107:LEU:H	11:AK:107:LEU:HD23	1.31	0.92
25:BA:1483:G:H1'	25:BA:1507:A:C2	2.04	0.92
25:BA:2023:G:H2'	25:BA:2024:G:C8	2.04	0.92
25:BA:2053:G:C5'	29:BE:144:ARG:HA	2.00	0.92
25:BA:411:G:H5'	25:BA:2407:G:OP2	1.68	0.92
25:BA:391:G:H2'	25:BA:392:C:H6	1.33	0.92
25:BA:450:G:H22	25:BA:454:A:N6	1.67	0.92
25:BA:99:U:H5'	25:BA:101:G:C5'	2.00	0.92
29:BE:5:LEU:HG	29:BE:25:VAL:CG1	1.99	0.92
32:BH:163:TYR:CD2	32:BH:169:VAL:HG11	2.04	0.92
35:BM:16:ILE:HG22	35:BM:21:LYS:NZ	1.84	0.92
37:BO:16:ARG:HD3	37:BO:19:VAL:HG22	1.52	0.92
40:BR:13:ARG:HD3	40:BR:90:GLY:O	1.69	0.92
42:BT:64:ARG:O	42:BT:67:ALA:HB3	1.69	0.92
47:BY:96:VAL:HA	47:BY:128:VAL:HG13	1.51	0.92
5:AE:54:THR:CG2	5:AE:201:ILE:HD11	1.99	0.92
7:AG:170:VAL:HG23	7:AG:176:LEU:HB2	1.52	0.92
10:AJ:45:ASP:HA	10:AJ:48:LYS:NZ	1.85	0.92
19:AS:81:ARG:HG2	19:AS:83:GLU:HG2	1.51	0.92
51:B3:61:ARG:HG3	51:B3:61:ARG:NH1	1.82	0.92
56:B8:19:ARG:NH1	56:B8:22:ARG:HH11	1.67	0.92
25:BA:137(A):G:C2	25:BA:138:G:O6	2.22	0.92
25:BA:1418:G:H5'	25:BA:1587:A:O2'	1.69	0.92
25:BA:2514:U:H2'	25:BA:2515:C:C6	2.03	0.92
25:BA:326:G:H2'	25:BA:327:G:H8	1.34	0.92
25:BA:428:A:H3'	25:BA:429:A:C8	2.05	0.92
3:AD:54:U:H4'	27:BC:54:SER:OG	1.69	0.92
29:BE:49:LEU:HG	29:BE:74:PRO:HG3	1.51	0.92
36:BN:10:VAL:CG1	36:BN:17:ARG:HA	2.00	0.92
39:BQ:105:ARG:CA	39:BQ:105:ARG:CZ	2.46	0.92
40:BR:44:LYS:HB2	40:BR:46:VAL:CG2	2.00	0.92
5:AE:150:SER:CA	5:AE:153:ARG:HB2	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:922:G:H5''	8:AH:20:GLN:NE2	1.84	0.92
21:AU:26:LEU:HB2	21:AU:42:ARG:HH12	1.25	0.92
25:BA:1019:U:H2'	25:BA:1020:A:H5'	1.52	0.92
25:BA:1203:G:C6	25:BA:1240:U:N3	2.37	0.92
25:BA:1518:C:H2'	25:BA:1519:G:H4'	1.51	0.92
25:BA:1580:A:H2'	25:BA:1581:G:N9	1.83	0.92
25:BA:1776:G:H2'	25:BA:1777:U:C5'	2.00	0.92
25:BA:739:G:H2'	25:BA:1784:A:N6	1.85	0.92
25:BA:966:G:H1'	25:BA:2267:A:H61	1.24	0.92
36:BN:20:MET:O	36:BN:41:ALA:HB1	1.69	0.92
37:BO:32:THR:HB	37:BO:35:HIS:CE1	2.05	0.92
30:BF:34:TRP:HH2	37:BO:6:LEU:N	1.67	0.92
40:BR:49:VAL:HG22	40:BR:76:LYS:HZ2	1.33	0.92
43:BU:88:ARG:O	43:BU:90:PRO:HD3	1.68	0.92
48:BZ:62:LEU:HD23	48:BZ:63:VAL:HG13	1.51	0.92
33:BK:94:ALA:HB1	33:BK:114:LEU:CD1	2.00	0.92
34:BL:38:VAL:O	34:BL:41:PHE:HB2	1.68	0.92
7:AG:159:ARG:O	7:AG:163:GLU:CB	2.16	0.92
1:AA:237:C:H5''	20:AT:25:ARG:CZ	1.99	0.92
1:AA:332:G:O2'	1:AA:333:G:H5'	1.69	0.92
1:AA:633:G:H2'	1:AA:634:C:H6	1.33	0.92
1:AA:763:G:H2'	1:AA:764:C:C6	2.05	0.92
19:AS:6:LEU:HD13	19:AS:6:LEU:H	1.30	0.92
23:AW:50:GLU:HG3	23:AW:54:LYS:HE3	1.52	0.92
51:B3:45:GLY:HA3	51:B3:53:GLU:O	1.68	0.92
55:B7:38:GLY:O	55:B7:40:GLU:N	2.03	0.92
25:BA:1153:C:H2'	25:BA:1154:G:C8	2.02	0.92
25:BA:1181:C:H2'	25:BA:1182:A:C8	2.04	0.92
25:BA:1471:A:H62	25:BA:1519:G:H22	1.09	0.92
25:BA:1937:A:H2'	25:BA:1938:A:OP1	1.66	0.92
25:BA:2266:A:H5'	25:BA:2267:A:N3	1.84	0.92
28:BD:112:GLN:N	28:BD:115:GLN:HE21	1.67	0.92
30:BF:97:TYR:H	30:BF:97:TYR:HD2	1.03	0.92
36:BN:15:GLY:H	36:BN:52:VAL:HG21	1.35	0.92
25:BA:1069:A:C4'	25:BA:1070:A:H5''	2.00	0.92
1:AA:197:A:N6	1:AA:221:C:C4'	2.33	0.92
5:AE:169:LYS:HD3	5:AE:170:GLU:N	1.85	0.92
9:AI:73:ASN:O	9:AI:76:ALA:HB3	1.69	0.92
49:B1:27:LEU:HD13	49:B1:52:ILE:HD11	1.51	0.92
53:B5:26:ASN:O	53:B5:27:LYS:HB2	1.70	0.92
25:BA:1180:C:H2'	25:BA:1181:C:C6	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1672:C:H2'	25:BA:1673:U:C5'	1.95	0.92
25:BA:1784:A:H1'	25:BA:1785:A:N7	1.85	0.92
25:BA:1813:G:H5''	25:BA:1814:G:OP2	1.68	0.92
25:BA:2014:A:H2'	25:BA:2015:A:N3	1.82	0.92
25:BA:20:C:O2'	25:BA:21:A:H5'	1.70	0.92
25:BA:2550:G:H8	25:BA:2550:G:H5'	1.34	0.92
25:BA:2841:C:H2'	25:BA:2842:G:C8	2.05	0.92
25:BA:319:C:H2'	25:BA:320:A:C8	2.03	0.92
26:BB:6:C:H5'	26:BB:27:C:H2'	1.51	0.92
29:BE:195:LEU:HD13	29:BE:196:VAL:H	1.32	0.92
35:BM:22:THR:HG22	35:BM:61:ARG:NH2	1.83	0.92
37:BO:114:ILE:CD1	37:BO:123:LEU:HD12	2.00	0.92
38:BP:109:VAL:CG1	38:BP:114:ALA:H	1.82	0.92
39:BQ:105:ARG:NE	39:BQ:105:ARG:HA	1.83	0.92
42:BT:92:ARG:HG2	42:BT:93:LYS:HZ3	1.24	0.92
1:AA:770:C:H1'	1:AA:900:A:C2	2.05	0.92
5:AE:136:VAL:HA	5:AE:139:LYS:NZ	1.84	0.92
11:AK:22:GLU:HA	11:AK:63:LEU:CD2	2.00	0.92
1:AA:1349:A:OP2	12:AL:118:LYS:HD2	1.70	0.92
21:AU:74:ARG:HA	21:AU:79:LEU:CD1	1.99	0.92
50:B2:28:LEU:HA	50:B2:33:GLN:HE22	1.32	0.92
51:B3:5:ILE:CD1	51:B3:10:VAL:HG23	2.00	0.92
53:B5:50:ARG:CZ	53:B5:52:VAL:HG21	1.99	0.92
25:BA:1024:G:H3'	25:BA:1025:G:H5''	1.50	0.92
25:BA:216:A:H2'	25:BA:217:G:C8	2.05	0.92
25:BA:2283:C:C2	25:BA:2389:G:N2	2.38	0.92
25:BA:2291:U:OP1	25:BA:2381:C:H5'	1.70	0.92
25:BA:2447:G:O2'	25:BA:2448:A:OP2	1.85	0.92
25:BA:2807:G:H2'	25:BA:2808:U:H5	1.35	0.92
25:BA:685:A:C1'	25:BA:688:U:O4	2.18	0.92
25:BA:957:A:H4'	25:BA:958:U:OP1	1.68	0.92
28:BD:206:LEU:HD22	28:BD:206:LEU:H	1.31	0.92
29:BE:77:ILE:O	29:BE:78:LEU:HD22	1.68	0.92
32:BH:11:VAL:HG23	32:BH:50:VAL:HG21	1.49	0.92
36:BN:10:VAL:HG21	36:BN:14:THR:HG21	1.49	0.92
25:BA:2674:G:H4'	36:BN:26:LYS:NZ	1.85	0.92
42:BT:53:ARG:HG3	42:BT:57:PHE:HE1	1.34	0.92
43:BU:11:GLN:HE22	43:BU:24:LYS:NZ	1.68	0.92
44:BV:4:LYS:HA	44:BV:106:ILE:HD11	1.52	0.92
1:AA:1004:A:H5''	1:AA:1025:U:C4	2.05	0.92
1:AA:939:G:H5''	10:AJ:102:ARG:HH12	1.33	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:58:ILE:O	5:AE:61:LEU:HB3	1.69	0.91
5:AE:91:PRO:HB3	5:AE:152:PHE:HD1	1.31	0.91
1:AA:407:G:O2'	7:AG:116:GLN:HG2	1.69	0.91
15:AO:93:LEU:CD1	15:AO:96:VAL:HG21	2.00	0.91
50:B2:9:VAL:HG13	50:B2:54:VAL:HA	1.49	0.91
51:B3:66:SER:HA	51:B3:69:LYS:CD	1.98	0.91
54:B6:21:ARG:HB3	54:B6:31:LEU:HD21	1.52	0.91
25:BA:1139:G:N7	35:BM:65:LYS:HE2	1.84	0.91
25:BA:1913:A:C2	25:BA:1917:U:C5	2.57	0.91
25:BA:2417:C:H2'	25:BA:2418:A:H8	1.34	0.91
25:BA:2491:U:C6	25:BA:2492:U:C5'	2.53	0.91
25:BA:431:U:H2'	25:BA:432:A:H5'	1.52	0.91
25:BA:566:U:H5''	43:BU:82:ARG:NH2	1.83	0.91
27:BC:30:LYS:HG2	27:BC:178:ALA:O	1.70	0.91
25:BA:1820:U:H2'	28:BD:202:LYS:HG3	1.53	0.91
28:BD:221:VAL:O	28:BD:222:ARG:HG3	1.69	0.91
28:BD:258:LYS:HG2	28:BD:259:THR:N	1.83	0.91
28:BD:8:PRO:HD2	28:BD:26:LYS:H	1.34	0.91
29:BE:8:LYS:HG3	41:BS:7:ILE:CD1	2.00	0.91
30:BF:78:ILE:HD13	30:BF:79:GLY:H	1.29	0.91
40:BR:39:ILE:O	40:BR:40:ILE:HD12	1.68	0.91
44:BV:25:ARG:HD3	44:BV:74:ALA:HB3	1.51	0.91
46:BX:74:PRO:C	46:BX:76:CYS:H	1.69	0.91
1:AA:1198:G:HO2'	13:AM:54:PHE:HE2	1.09	0.91
1:AA:872:A:H2'	1:AA:873:A:C5'	1.98	0.91
9:AI:4:TYR:HB3	9:AI:91:VAL:O	1.69	0.91
13:AM:79:ARG:NH1	13:AM:82:ILE:HD12	1.85	0.91
14:AN:21:ILE:HD11	14:AN:82:VAL:HG11	1.51	0.91
51:B3:7:PRO:HD3	51:B3:56:VAL:CG1	2.00	0.91
25:BA:1255:U:H5'	25:BA:1256:G:H5''	0.93	0.91
25:BA:2314:C:H2'	25:BA:2315:G:H8	1.34	0.91
25:BA:2407:G:H2'	25:BA:2408:U:C6	2.05	0.91
25:BA:2649:U:H2'	25:BA:2650:U:H6	1.35	0.91
25:BA:2781:A:H3'	25:BA:2781:A:C8	2.03	0.91
25:BA:684:G:H2'	25:BA:687:C:H41	1.28	0.91
35:BM:110:GLY:O	35:BM:114:ARG:HB2	1.69	0.91
37:BO:72:PRO:O	37:BO:111:ARG:HG2	1.71	0.91
41:BS:28:VAL:HG22	41:BS:94:ALA:H	1.35	0.91
44:BV:69:LEU:HD12	44:BV:109:GLU:OE1	1.69	0.91
1:AA:1210:C:H4'	1:AA:1214:C:H42	1.32	0.91
1:AA:345:C:H4'	1:AA:346:G:O5'	1.68	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:727:G:H3'	1:AA:727:G:C8	2.05	0.91
1:AA:818:G:H2'	1:AA:819:A:H5''	1.50	0.91
5:AE:23:ARG:HH11	5:AE:24:TRP:N	1.68	0.91
7:AG:58:LEU:HD13	7:AG:59:ARG:HH11	1.33	0.91
8:AH:80:ILE:CD1	8:AH:91:LEU:HB3	1.99	0.91
9:AI:45:LEU:HG	9:AI:59:TYR:HD1	1.28	0.91
18:AR:24:SER:H	18:AR:27:VAL:CG2	1.83	0.91
50:B2:8:LEU:CD1	50:B2:31:LEU:HD22	1.99	0.91
51:B3:57:GLU:HA	51:B3:61:ARG:HH12	1.35	0.91
25:BA:2514:U:H2'	25:BA:2515:C:H6	1.35	0.91
25:BA:2821:A:O2'	25:BA:2822:G:H5'	1.70	0.91
25:BA:685:A:O4'	25:BA:688:U:O4	1.87	0.91
25:BA:937:U:H2'	25:BA:938:G:H8	1.33	0.91
31:BG:74:LYS:HE2	31:BG:75:LYS:CE	1.98	0.91
25:BA:2746:U:H1'	32:BH:139:GLN:OE1	1.70	0.91
36:BN:19:ILE:O	36:BN:19:ILE:HD12	1.70	0.91
37:BO:107:LYS:HE2	37:BO:110:TYR:HD1	1.30	0.91
40:BR:33:LYS:CE	40:BR:54:LEU:HD21	2.00	0.91
43:BU:35:LEU:HD23	43:BU:36:PRO:HD2	1.50	0.91
44:BV:90:ARG:N	44:BV:90:ARG:HH21	1.68	0.91
46:BX:81:LYS:HD3	46:BX:96:ILE:HG13	1.49	0.91
33:BK:57:ARG:HG2	33:BK:61:ARG:HH21	1.34	0.91
1:AA:1239:A:H4'	1:AA:1240:U:H5''	1.52	0.91
1:AA:928:G:C4'	1:AA:1533:C:H1'	2.00	0.91
1:AA:530:G:H3'	1:AA:530:G:N3	1.86	0.91
21:AU:50:ILE:HD13	21:AU:70:ILE:HD13	1.50	0.91
50:B2:3:ARG:CB	50:B2:3:ARG:HH11	1.80	0.91
25:BA:1031:G:N2	25:BA:1124:C:C2	2.37	0.91
25:BA:1176:G:H2'	25:BA:1177:A:H5'	1.51	0.91
25:BA:209:C:H5'	25:BA:681:G:H4'	1.49	0.91
25:BA:728:G:C2	25:BA:762:U:H3'	2.04	0.91
28:BD:112:GLN:H	28:BD:115:GLN:NE2	1.67	0.91
29:BE:146:THR:HB	29:BE:147:PRO:CD	2.01	0.91
30:BF:119:ARG:HH21	30:BF:119:ARG:HB2	1.30	0.91
36:BN:12:ASP:CA	36:BN:94:ARG:HD2	2.00	0.91
37:BO:91:PHE:H	37:BO:125:VAL:HG11	1.35	0.91
47:BY:94:GLU:H	47:BY:95:PRO:CD	1.83	0.91
1:AA:781:A:H2'	1:AA:782:A:H5'	1.50	0.91
5:AE:61:LEU:HA	5:AE:64:ARG:HH11	1.35	0.91
6:AF:29:TYR:CE1	13:AM:65:LEU:HD11	2.04	0.91
8:AH:51:VAL:HB	8:AH:52:PRO:HD3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1180:A:OP1	12:AL:102:LEU:HB2	1.70	0.91
49:B1:16:LEU:HD21	49:B1:59:LEU:HB2	1.50	0.91
25:BA:72:U:H1'	49:B1:56:LEU:HD23	1.50	0.91
56:B8:15:LYS:HB2	56:B8:26:ILE:O	1.70	0.91
25:BA:1802:A:H62	25:BA:1817:G:N2	1.68	0.91
25:BA:2581:G:N2	25:BA:2610:C:C6	2.37	0.91
25:BA:270(M):U:H4'	25:BA:270(N):G:C4'	2.01	0.91
25:BA:2755:C:O3'	25:BA:2756:U:O4'	1.87	0.91
25:BA:324:A:N6	25:BA:339:U:H1'	1.84	0.91
27:BC:3:HIS:HB3	27:BC:5:LYS:HE2	1.51	0.91
28:BD:63:ARG:HH11	28:BD:87:ASN:HD21	1.18	0.91
29:BE:55:ASN:HA	29:BE:73:GLU:CD	1.88	0.91
33:BK:38:LEU:HD13	33:BK:39:ALA:N	1.86	0.91
38:BP:23:GLY:N	38:BP:99:PRO:HG3	1.86	0.91
39:BQ:86:ARG:HH11	39:BQ:86:ARG:HB3	1.34	0.91
41:BS:48:ILE:HD13	41:BS:50:ILE:CD1	2.00	0.91
41:BS:65:LYS:HD3	41:BS:75:ILE:HG21	1.53	0.91
41:BS:95:ARG:HH21	41:BS:96:ARG:NH2	1.68	0.91
34:BL:76:TYR:HD2	34:BL:80:LYS:HE2	1.32	0.91
1:AA:109:A:N6	1:AA:326:G:C6	2.39	0.91
1:AA:371:G:HO2'	1:AA:372:C:H5'	1.35	0.91
25:BA:1312:U:H5'	45:BW:63:LYS:NZ	1.86	0.91
25:BA:2233:U:H2'	25:BA:2234:G:C8	2.05	0.91
25:BA:241:A:O2'	25:BA:242:G:H4'	1.71	0.91
35:BM:67:LEU:CA	35:BM:70:LYS:HZ3	1.82	0.91
36:BN:16:ALA:HB1	36:BN:45:GLU:HB2	0.94	0.91
34:BL:10:LEU:HD11	34:BL:57:ILE:HD11	1.50	0.91
1:AA:1538:C:H2'	1:AA:1539:C:C6	2.06	0.91
1:AA:609:A:C2	1:AA:610:G:H1'	2.05	0.91
1:AA:762:C:H2'	1:AA:763:G:C8	2.05	0.91
8:AH:78:HIS:HB2	11:AK:104:ARG:HD2	1.52	0.91
11:AK:9:MET:HG2	11:AK:13:ILE:CD1	2.01	0.91
1:AA:1047:G:H5''	17:AQ:4:LYS:HD3	1.51	0.91
42:BT:27:LEU:HD21	52:B4:12:SER:OG	1.70	0.91
53:B5:16:CYS:SG	53:B5:20:ASN:HB2	2.10	0.91
25:BA:1147:C:H2'	25:BA:1148:A:H5'	1.51	0.91
25:BA:1663:C:N4	25:BA:1992:G:H8	1.67	0.91
25:BA:1718:G:H2'	25:BA:1725:G:H8	1.34	0.91
25:BA:2209:C:H2'	25:BA:2210:G:H3'	1.49	0.91
2:AC:75:C:P	25:BA:2602:A:OP1	2.29	0.91
25:BA:2787:C:H1'	29:BE:61:ARG:HD2	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:477:A:H62	25:BA:502:A:H61	1.10	0.91
27:BC:32:LEU:HD13	27:BC:220:PRO:HB2	1.53	0.91
25:BA:1803:A:H4'	28:BD:257:LEU:HD13	1.52	0.91
28:BD:89:SER:HB2	28:BD:202:LYS:NZ	1.84	0.91
31:BG:41:GLN:HG3	31:BG:155:MET:SD	2.11	0.91
31:BG:53:LEU:HB3	31:BG:69:ALA:O	1.71	0.91
37:BO:93:GLY:HA2	37:BO:112:LEU:HD11	1.50	0.91
40:BR:24:LEU:HD22	40:BR:48:LEU:HD11	1.52	0.91
42:BT:53:ARG:HB2	42:BT:53:ARG:HH11	1.34	0.91
33:BK:53:ALA:HB1	33:BK:57:ARG:HH22	1.31	0.91
33:BK:77:LEU:N	33:BK:77:LEU:HD23	1.85	0.91
1:AA:1087:G:H2'	1:AA:1088:G:H8	1.35	0.91
1:AA:1171:G:HO2'	1:AA:1172:C:H6	1.03	0.91
9:AI:53:ALA:HB1	9:AI:86:ARG:HH11	1.35	0.91
23:AW:30:LYS:O	23:AW:34:LYS:HG3	1.69	0.91
52:B4:10:LYS:HE3	52:B4:15:ARG:NH1	1.86	0.91
54:B6:41:ARG:HH11	54:B6:41:ARG:HB2	1.36	0.91
25:BA:2059:A:C2	25:BA:2503:A:N6	2.38	0.91
25:BA:411:G:N2	25:BA:415:A:H61	1.69	0.91
25:BA:515:A:O5'	25:BA:515:A:C8	2.23	0.91
25:BA:774:A:H1'	25:BA:775:G:C8	2.05	0.91
29:BE:51:PHE:O	29:BE:74:PRO:HB3	1.69	0.91
42:BT:65:ILE:HD13	42:BT:96:ALA:HB2	1.53	0.91
43:BU:43:GLU:H	43:BU:44:LYS:HZ3	1.14	0.91
47:BY:150:LEU:O	47:BY:171:ILE:HG23	1.71	0.91
25:BA:845:G:H5''	25:BA:846:C:OP1	1.70	0.91
1:AA:1376:U:H3	1:AA:1377:A:N6	1.68	0.91
1:AA:322:C:N4	1:AA:329:A:H62	1.67	0.91
1:AA:570:G:H4'	1:AA:820:U:C6	2.06	0.91
1:AA:902:G:O2'	1:AA:903:G:H5'	1.70	0.91
7:AG:190:ASP:HB3	7:AG:192:GLU:OE1	1.71	0.91
7:AG:20:TYR:CA	7:AG:26:CYS:SG	2.57	0.91
18:AR:16:ALA:HB1	18:AR:21:ASP:HB3	1.52	0.91
9:AI:62:TRP:CB	21:AU:35:ARG:HH12	1.83	0.91
51:B3:45:GLY:CA	51:B3:53:GLU:O	2.19	0.91
25:BA:1298:C:C1'	25:BA:1302:A:N7	2.34	0.91
25:BA:1466:G:H2'	25:BA:1547:C:N4	1.85	0.91
25:BA:1846:G:N2	25:BA:1895:C:C2	2.39	0.91
25:BA:2225:A:H5'	25:BA:2226:C:H6	1.36	0.91
25:BA:297:C:H3'	25:BA:298:G:C8	2.06	0.91
25:BA:424:G:O2'	25:BA:425:G:H5'	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:531:C:O2	25:BA:531:C:H2'	1.70	0.91
28:BD:124:PRO:O	28:BD:126:GLN:N	2.04	0.91
32:BH:104:GLU:O	32:BH:113:VAL:HB	1.71	0.91
35:BM:107:LEU:HD23	35:BM:107:LEU:O	1.69	0.91
35:BM:57:ALA:N	35:BM:124:ALA:HA	1.86	0.91
38:BP:109:VAL:HG13	38:BP:113:GLN:OE1	1.70	0.91
25:BA:1081:U:H2'	25:BA:1082:U:O4'	1.71	0.91
5:AE:150:SER:HA	5:AE:153:ARG:CB	1.99	0.91
16:AP:3:ARG:HG2	16:AP:7:VAL:HG12	1.51	0.91
25:BA:1466:G:C2'	25:BA:1547:C:H41	1.83	0.91
25:BA:2001:A:H2'	25:BA:2002:G:C8	2.05	0.91
25:BA:962:G:H2'	25:BA:963:U:C6	2.05	0.91
25:BA:675:A:OP1	30:BF:76:GLY:HA3	1.69	0.91
32:BH:6:ARG:HB3	32:BH:65:HIS:HD2	1.35	0.91
33:BK:24:GLY:HA2	33:BK:27:ARG:HD2	1.54	0.91
37:BO:46:LYS:O	37:BO:46:LYS:HD2	1.71	0.91
39:BQ:87:TYR:OH	39:BQ:116:LEU:HB2	1.70	0.91
43:BU:62:LEU:HB3	43:BU:97:LYS:O	1.68	0.91
47:BY:9:TYR:HA	47:BY:14:LYS:HZ3	1.33	0.91
25:BA:1061:U:H4'	25:BA:1070:A:H1'	1.50	0.91
32:BH:25:LYS:HZ3	32:BH:32:GLU:CB	1.81	0.91
1:AA:397:A:N6	1:AA:548:G:C6	2.38	0.90
10:AJ:42:ILE:HD13	10:AJ:116:ALA:HB3	1.53	0.90
10:AJ:22:LEU:HD23	10:AJ:63:LYS:NZ	1.85	0.90
1:AA:1226:C:C4	16:AP:104:ARG:HG3	2.04	0.90
19:AS:56:ALA:HB1	19:AS:74:LEU:HD11	1.53	0.90
21:AU:55:ARG:HH11	21:AU:55:ARG:CB	1.83	0.90
25:BA:14:A:N7	25:BA:15:G:N9	2.19	0.90
25:BA:1799:G:H1	28:BD:157:ARG:HH12	0.91	0.90
25:BA:2075:U:C2'	25:BA:2076:U:H5'	2.01	0.90
25:BA:292:C:H3'	25:BA:293:U:C4	2.05	0.90
29:BE:171:GLU:HB2	29:BE:185:LYS:HD2	1.53	0.90
37:BO:59:LEU:H	37:BO:60:MET:HE2	1.33	0.90
37:BO:89:ALA:O	37:BO:125:VAL:HG22	1.71	0.90
40:BR:73:LEU:H	40:BR:73:LEU:HD13	1.35	0.90
43:BU:78:LYS:CG	43:BU:84:LYS:HG3	2.00	0.90
33:BK:127:VAL:HG22	33:BK:141:LYS:HA	1.53	0.90
33:BK:68:LEU:HD21	33:BK:107:VAL:HG11	1.52	0.90
1:AA:301:G:H21	1:AA:302:G:H1'	1.33	0.90
1:AA:337:C:H2'	1:AA:338:A:C8	2.06	0.90
1:AA:520:A:N6	1:AA:529:G:H21	1.70	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:677:U:H2'	1:AA:678:U:C5	2.05	0.90
14:AN:95:ILE:HA	14:AN:98:LEU:CD1	2.01	0.90
15:AO:36:VAL:O	15:AO:58:VAL:HG13	1.71	0.90
17:AQ:10:ALA:HA	17:AQ:12:ARG:HE	1.36	0.90
44:BV:19:LEU:HB3	52:B4:25:LEU:HD22	1.53	0.90
25:BA:1632:A:C2	25:BA:1633:G:N2	2.40	0.90
25:BA:2043:C:C4	25:BA:2777:G:N3	2.38	0.90
29:BE:131:ALA:HB1	29:BE:134:ILE:HG13	1.52	0.90
29:BE:30:PRO:HA	29:BE:49:LEU:O	1.72	0.90
37:BO:49:ARG:HH22	55:B7:55:ALA:HB3	1.32	0.90
39:BQ:34:ILE:O	39:BQ:113:LEU:HD22	1.71	0.90
25:BA:997:G:H5'	42:BT:92:ARG:HH11	1.32	0.90
46:BX:29:GLU:OE1	46:BX:32:PRO:HG2	1.72	0.90
1:AA:1066:C:H3'	1:AA:1067:A:H8	1.32	0.90
5:AE:15:VAL:HG22	5:AE:209:ARG:HD2	1.49	0.90
16:AP:3:ARG:HH22	31:BG:139:LEU:CD2	1.85	0.90
20:AT:10:VAL:HG21	20:AT:55:ASP:HB2	1.53	0.90
23:AW:57:ARG:HE	23:AW:100:ILE:HD12	1.36	0.90
25:BA:109:G:N2	25:BA:110:G:H1'	1.85	0.90
25:BA:2655:G:HO2'	25:BA:2656:U:H5	0.93	0.90
25:BA:2654:A:N3	25:BA:2656:U:N3	2.18	0.90
25:BA:2807:G:H2'	25:BA:2808:U:C5	2.06	0.90
30:BF:42:ALA:O	30:BF:45:ARG:HB2	1.72	0.90
32:BH:140:LYS:HA	32:BH:143:GLN:HG3	1.53	0.90
32:BH:149:ARG:HA	32:BH:162:ILE:CD1	2.00	0.90
37:BO:55:ARG:HH21	37:BO:55:ARG:HB3	1.36	0.90
33:BK:72:LEU:HB2	33:BK:138:ILE:HD11	1.49	0.90
1:AA:236:G:H2'	1:AA:237:C:C6	2.06	0.90
5:AE:15:VAL:HG11	5:AE:209:ARG:CB	2.00	0.90
6:AF:70:VAL:O	6:AF:105:GLU:HA	1.71	0.90
10:AJ:70:LYS:HB3	10:AJ:96:GLN:HG2	1.53	0.90
25:BA:179:G:H5'	54:B6:32:LYS:HZ1	1.27	0.90
54:B6:34:ARG:NH2	54:B6:42:LEU:HG	1.87	0.90
25:BA:1935:G:H2'	25:BA:1962:C:N3	1.86	0.90
25:BA:2078:C:H2'	25:BA:2079:U:C6	2.06	0.90
25:BA:2287:A:N7	25:BA:2289:G:C5	2.40	0.90
25:BA:2395:C:H2'	25:BA:2396:G:C8	2.06	0.90
25:BA:2439:A:H4'	25:BA:2440:C:O5'	1.69	0.90
25:BA:2852:G:H2'	25:BA:2853:C:C6	2.07	0.90
25:BA:650:C:H2'	25:BA:651:G:H5'	1.53	0.90
29:BE:146:THR:HB	29:BE:147:PRO:HD3	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:23:LEU:HD21	35:BM:62:VAL:HG22	1.52	0.90
38:BP:33:GLY:O	38:BP:131:ILE:HG23	1.71	0.90
46:BX:47:LYS:HZ2	46:BX:51:VAL:HG21	1.33	0.90
47:BY:31:ARG:O	47:BY:33:LEU:HG	1.72	0.90
33:BK:69:LYS:HA	33:BK:138:ILE:HD12	1.52	0.90
7:AG:156:GLU:O	7:AG:159:ARG:HB3	1.70	0.90
1:AA:235:C:H2'	1:AA:236:G:H8	1.33	0.90
1:AA:416:G:H2'	1:AA:417:C:C6	2.05	0.90
1:AA:713:G:N2	1:AA:777:A:H1'	1.87	0.90
20:AT:81:ARG:HG3	20:AT:84:LEU:CD2	2.00	0.90
55:B7:16:ILE:HD12	55:B7:16:ILE:N	1.86	0.90
55:B7:5:LYS:CB	55:B7:60:LEU:HA	2.01	0.90
25:BA:1671:U:O2	25:BA:1673:U:C5'	2.19	0.90
25:BA:2129:C:OP1	27:BC:6:ARG:HG3	1.71	0.90
25:BA:428:A:H5'	25:BA:429:A:OP2	1.69	0.90
25:BA:470:A:H2'	25:BA:471:A:O4'	1.72	0.90
25:BA:808:G:H2'	25:BA:809:G:C8	2.05	0.90
27:BC:83:ILE:O	27:BC:87:GLU:HG3	1.72	0.90
32:BH:127:GLU:HB2	32:BH:130:ARG:H	1.35	0.90
36:BN:65:THR:HG22	36:BN:77:ILE:HG13	1.53	0.90
40:BR:62:LYS:C	40:BR:64:GLU:H	1.68	0.90
42:BT:13:LYS:HD2	42:BT:13:LYS:N	1.86	0.90
43:BU:17:GLY:HA3	43:BU:19:LYS:HZ3	1.35	0.90
47:BY:68:PRO:O	47:BY:90:VAL:HA	1.72	0.90
11:AK:80:ILE:H	11:AK:80:ILE:HD12	1.35	0.90
8:AH:101:ILE:HG12	8:AH:118:ILE:O	1.70	0.90
13:AM:39:PRO:HB3	13:AM:70:ARG:NH1	1.86	0.90
14:AN:69:ALA:HB1	14:AN:103:LEU:CD1	2.02	0.90
20:AT:59:ILE:HD12	20:AT:72:ARG:C	1.92	0.90
9:AI:89:MET:HG2	21:AU:76:LEU:HD21	1.52	0.90
23:AW:42:GLN:O	23:AW:45:GLN:HB2	1.72	0.90
50:B2:9:VAL:HG22	50:B2:53:LEU:O	1.71	0.90
25:BA:1203:G:H1	25:BA:1241:A:H1'	1.34	0.90
25:BA:1646:C:H3'	25:BA:1647:G:H5'	1.52	0.90
25:BA:1914:C:H2'	25:BA:1914:C:O2	1.71	0.90
25:BA:970:C:HO2'	25:BA:984:A:HO2'	1.13	0.90
29:BE:4:ILE:O	29:BE:27:LEU:HD13	1.70	0.90
30:BF:18:ARG:HG2	30:BF:19:GLU:N	1.84	0.90
32:BH:156:ALA:HB1	32:BH:172:LYS:NZ	1.87	0.90
33:BK:32:PRO:HG2	33:BK:33:ARG:HD2	1.53	0.90
35:BM:53:VAL:HA	35:BM:121:LYS:O	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:5:LYS:O	42:BT:7:GLY:N	2.03	0.90
48:BZ:26:TYR:HD1	48:BZ:29:GLN:HB2	1.35	0.90
33:BK:77:LEU:HG	33:BK:141:LYS:O	1.70	0.90
33:BK:125:GLU:HB3	33:BK:143:SER:HA	0.92	0.90
33:BK:81:VAL:CG1	33:BK:88:ILE:HG12	2.01	0.90
1:AA:1157:A:H1'	1:AA:1181:G:N2	1.86	0.90
6:AF:85:ARG:HH21	6:AF:89:GLU:HB2	1.36	0.90
7:AG:144:ASP:O	7:AG:184:LYS:HA	1.72	0.90
37:BO:49:ARG:HH22	55:B7:55:ALA:CB	1.84	0.90
25:BA:1265:A:H8	25:BA:1267:U:H3	0.96	0.90
25:BA:2265:U:H3	25:BA:2266:A:H62	0.92	0.90
25:BA:2268:A:H5'	25:BA:2269:A:OP2	1.72	0.90
27:BC:87:GLU:HG2	27:BC:94:VAL:CG1	2.00	0.90
28:BD:206:LEU:CD2	28:BD:207:GLY:H	1.82	0.90
28:BD:227:ASN:HD22	28:BD:227:ASN:H	1.19	0.90
43:BU:20:LEU:HD13	43:BU:68:LYS:HZ1	1.31	0.90
45:BW:79:ALA:O	45:BW:80:ILE:HD13	1.72	0.90
25:BA:1061:U:C4'	25:BA:1070:A:H1'	2.02	0.90
34:BL:12:LEU:HB3	34:BL:13:PRO:HD2	1.52	0.90
9:AI:100:ASN:ND2	21:AU:23:LYS:O	2.05	0.90
16:AP:7:VAL:HG11	31:BG:140:ILE:HD12	1.54	0.90
49:B1:30:LEU:HD12	49:B1:45:ILE:HG22	1.53	0.90
51:B3:46:GLN:O	51:B3:52:THR:HB	1.72	0.90
25:BA:1775:U:H2'	25:BA:1776:G:H5'	1.54	0.90
25:BA:2507:C:H5''	25:BA:2573:C:H41	1.37	0.90
25:BA:2637:U:H5''	29:BE:81:ILE:HD11	1.50	0.90
25:BA:1456:G:H1	25:BA:2703:C:H41	0.93	0.90
25:BA:327:G:C2	25:BA:328:U:H6	1.89	0.90
26:BB:47:C:H2'	26:BB:48:A:H5'	1.51	0.90
32:BH:107:VAL:HG23	32:BH:160:LYS:HD3	1.53	0.90
32:BH:43:VAL:HG22	32:BH:52:VAL:CA	2.02	0.90
35:BM:45:ASN:O	35:BM:46:VAL:HG23	1.70	0.90
35:BM:63:THR:OG1	35:BM:65:LYS:HD3	1.71	0.90
36:BN:10:VAL:HG12	36:BN:17:ARG:CA	2.01	0.90
37:BO:132:LYS:HA	37:BO:135:LEU:HD22	1.54	0.90
37:BO:72:PRO:HB2	37:BO:111:ARG:CG	2.02	0.90
41:BS:13:ARG:NH1	41:BS:13:ARG:HB2	1.86	0.90
44:BV:5:ALA:HB1	44:BV:50:VAL:HG12	1.52	0.90
1:AA:1344:C:H4'	12:AL:120:ARG:HB3	1.52	0.90
1:AA:679:C:H2'	1:AA:680:C:H6	1.36	0.90
1:AA:765:G:O2'	1:AA:766:A:H5'	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:47:LEU:O	6:AF:52:LEU:HD22	1.72	0.90
1:AA:8:A:H5'	8:AH:120:THR:O	1.72	0.90
19:AS:32:TYR:CE2	19:AS:35:LYS:HB2	2.05	0.90
51:B3:48:ARG:N	51:B3:52:THR:OG1	2.05	0.90
54:B6:17:GLY:H	54:B6:21:ARG:HH22	0.95	0.90
25:BA:1471:A:N6	25:BA:1519:G:N2	2.18	0.90
25:BA:1551:C:H2'	25:BA:1552:G:H8	1.37	0.90
25:BA:2089:U:H2'	25:BA:2090:G:H8	1.37	0.90
25:BA:2522:U:H5'	25:BA:2523:G:OP2	1.72	0.90
25:BA:2701:C:H3'	25:BA:2702:U:C5'	2.00	0.90
25:BA:75:G:H4'	49:B1:50:ARG:NH1	1.87	0.90
29:BE:100:GLU:H	29:BE:172:VAL:CG2	1.83	0.90
37:BO:24:GLY:HA2	37:BO:27:HIS:O	1.72	0.90
37:BO:46:LYS:N	37:BO:46:LYS:HE3	1.86	0.90
37:BO:91:PHE:H	37:BO:125:VAL:CG1	1.85	0.90
42:BT:88:ILE:C	43:BU:52:VAL:HA	1.92	0.90
25:BA:1322:A:P	44:BV:11:ARG:HH11	1.94	0.90
44:BV:11:ARG:HH21	44:BV:11:ARG:HB3	1.32	0.90
46:BX:7:VAL:HG22	46:BX:71:LYS:HG3	1.50	0.90
1:AA:1192:C:N4	1:AA:1193:G:C4	2.39	0.90
7:AG:100:ARG:NH2	7:AG:136:PRO:O	2.05	0.90
23:AW:21:LYS:HA	23:AW:24:LEU:HD12	1.54	0.90
25:BA:1198:U:H2'	25:BA:1199:U:C6	2.07	0.90
25:BA:14:A:N7	25:BA:15:G:C4	2.40	0.90
25:BA:1509:C:OP1	25:BA:1510:A:H8	1.53	0.90
25:BA:1529:A:H3'	25:BA:1530:G:H8	1.36	0.90
25:BA:1533:C:N3	25:BA:1539:G:N2	2.19	0.90
25:BA:1804:C:N4	25:BA:1814:G:N2	2.20	0.90
25:BA:2658:C:H2'	25:BA:2659:G:C5'	2.01	0.90
25:BA:653:A:N6	25:BA:655:A:N3	2.20	0.90
25:BA:783:A:H2'	25:BA:784:A:H5'	1.52	0.90
31:BG:171:ALA:HA	31:BG:174:GLU:OE1	1.72	0.90
31:BG:53:LEU:HG	31:BG:72:ARG:HH21	1.37	0.90
25:BA:623:G:H8	37:BO:105:LEU:HD13	1.32	0.90
39:BQ:33:ARG:HG3	39:BQ:113:LEU:HD21	1.52	0.90
46:BX:49:VAL:O	46:BX:56:PRO:HG3	1.72	0.90
48:BZ:19:LYS:O	48:BZ:20:ARG:HD2	1.72	0.90
1:AA:198:G:O2'	1:AA:199:G:H5'	1.72	0.89
1:AA:730:G:C5	1:AA:731:G:H1'	2.07	0.89
6:AF:35:GLU:HA	6:AF:38:ARG:CG	2.01	0.89
1:AA:407:G:H5''	7:AG:115:ARG:HD2	1.51	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:114:GLY:O	8:AH:115:VAL:HG13	1.71	0.89
16:AP:97:PRO:HB2	16:AP:101:GLN:HB2	1.52	0.89
16:AP:37:THR:HB	16:AP:59:TYR:CD2	2.06	0.89
18:AR:77:ARG:HH11	18:AR:77:ARG:C	1.75	0.89
25:BA:1144:G:H2'	25:BA:1145:C:C6	2.06	0.89
25:BA:1238:G:C2'	25:BA:1239:G:H5'	2.02	0.89
25:BA:1820:U:N1	28:BD:202:LYS:HG2	1.85	0.89
25:BA:2517:C:C5	25:BA:2542:A:N7	2.40	0.89
25:BA:477:A:H62	25:BA:502:A:N6	1.70	0.89
25:BA:565:C:N3	25:BA:566:U:N3	2.20	0.89
25:BA:2731:G:H4'	29:BE:168:MET:HE2	1.53	0.89
30:BF:12:LEU:HD22	30:BF:142:TRP:CZ3	2.08	0.89
30:BF:51:THR:O	30:BF:52:LYS:HB2	1.72	0.89
32:BH:103:LEU:HB2	32:BH:115:VAL:CB	2.02	0.89
36:BN:15:GLY:HA3	36:BN:47:ILE:HB	1.54	0.89
40:BR:89:ARG:HG3	40:BR:90:GLY:N	1.88	0.89
45:BW:47:PHE:HB3	45:BW:49:VAL:HG13	1.54	0.89
1:AA:1005:A:H5"	1:AA:1006:C:H5	1.37	0.89
1:AA:1422:G:O2'	36:BN:49:ARG:NH2	2.06	0.89
5:AE:170:GLU:HB3	5:AE:174:VAL:HG23	1.52	0.89
6:AF:11:ARG:HD2	6:AF:16:ARG:NH2	1.86	0.89
10:AJ:140:ASP:HA	10:AJ:143:ARG:CZ	2.01	0.89
14:AN:25:TYR:OH	14:AN:87:THR:HB	1.70	0.89
23:AW:53:LEU:HA	23:AW:56:MET:HB2	1.54	0.89
52:B4:36:CYS:SG	52:B4:48:GLU:HB2	2.12	0.89
25:BA:2348:U:H3'	55:B7:42:ARG:HH22	1.37	0.89
25:BA:1317:A:H2'	25:BA:1318:C:C6	2.06	0.89
25:BA:1543:A:H5"	25:BA:1544:C:OP2	1.72	0.89
25:BA:1784:A:C8	25:BA:1981:A:C8	2.60	0.89
25:BA:1944:U:H1'	25:BA:1955:U:O4'	1.72	0.89
25:BA:214:G:O2'	25:BA:215:G:H5'	1.72	0.89
25:BA:2194:G:C2	25:BA:2195:C:N4	2.40	0.89
25:BA:2327:A:H2'	25:BA:2328:A:H8	1.36	0.89
25:BA:296:C:H2'	25:BA:297:C:C6	2.05	0.89
25:BA:566:U:H3'	25:BA:567:A:H8	1.37	0.89
25:BA:716:A:H2'	25:BA:717:G:H5'	1.55	0.89
25:BA:728:G:O2'	25:BA:729:G:H5"	1.71	0.89
25:BA:2123:G:H4'	27:BC:172:HIS:CG	2.08	0.89
29:BE:49:LEU:HD12	29:BE:51:PHE:H	1.38	0.89
37:BO:45:LEU:HD22	55:B7:59:LYS:CD	2.02	0.89
41:BS:45:PHE:CE1	41:BS:87:ASP:HB2	2.06	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1068:G:H4'	25:BA:1096:A:O2'	1.71	0.89
1:AA:754:C:H5'	1:AA:755:G:C8	2.07	0.89
5:AE:165:VAL:HG23	5:AE:166:ASP:H	1.35	0.89
5:AE:174:VAL:O	5:AE:178:ARG:HG2	1.70	0.89
7:AG:11:LEU:O	7:AG:19:LEU:HD12	1.71	0.89
7:AG:13:ARG:HH12	7:AG:36:ARG:HD3	1.36	0.89
8:AH:7:GLU:HB3	8:AH:112:LEU:HD11	1.53	0.89
10:AJ:111:ARG:HB3	10:AJ:112:PRO:HD2	1.53	0.89
11:AK:37:ARG:HD2	11:AK:38:ILE:N	1.87	0.89
16:AP:14:ARG:HG2	16:AP:17:VAL:HG23	1.54	0.89
16:AP:88:ARG:HG2	16:AP:98:VAL:CG1	2.03	0.89
25:BA:1270:C:C1'	25:BA:1325:G:N7	2.35	0.89
25:BA:1503:U:H2'	25:BA:1504:C:C5	2.06	0.89
25:BA:1864:U:H2'	25:BA:1869:G:H5'	1.55	0.89
25:BA:1913:A:H2	25:BA:1917:U:C5	1.90	0.89
25:BA:191:A:H2'	25:BA:192:C:O4'	1.72	0.89
25:BA:2148:G:H2'	25:BA:2149:G:H8	1.34	0.89
25:BA:2470:G:O6	25:BA:2481:G:N2	2.05	0.89
25:BA:2513:G:H2'	25:BA:2514:U:C6	2.06	0.89
25:BA:283:A:O2'	25:BA:284:U:H5'	1.72	0.89
25:BA:674:G:C2	25:BA:807:U:O4	2.25	0.89
25:BA:941:A:C2	25:BA:942:G:C4	2.60	0.89
27:BC:19:ILE:HD12	27:BC:223:ARG:HB3	1.52	0.89
28:BD:161:THR:HG23	28:BD:196:VAL:HG23	1.54	0.89
28:BD:29:PRO:HB2	28:BD:82:ILE:O	1.73	0.89
29:BE:127:ASP:CG	29:BE:135:HIS:H	1.75	0.89
29:BE:104:VAL:HG22	29:BE:198:VAL:HA	1.52	0.89
29:BE:199:ARG:HD2	29:BE:199:ARG:N	1.87	0.89
36:BN:76:ALA:HB2	41:BS:76:PHE:HD1	1.34	0.89
37:BO:97:PRO:HB3	37:BO:102:ARG:NH1	1.86	0.89
48:BZ:47:PRO:HG2	48:BZ:53:MET:HB2	1.52	0.89
1:AA:169:C:H2'	1:AA:170:U:C6	2.08	0.89
1:AA:583:A:H2'	1:AA:584:G:H8	1.33	0.89
1:AA:873:A:OP1	1:AA:873:A:H8	1.55	0.89
1:AA:576:G:N7	1:AA:881:G:C1'	2.35	0.89
2:AC:19:G:H3'	2:AC:20:U:C4	2.06	0.89
5:AE:164:VAL:HG12	5:AE:186:ALA:HB2	1.54	0.89
6:AF:38:ARG:HH11	6:AF:38:ARG:HB3	1.32	0.89
7:AG:125:HIS:O	7:AG:126:ILE:HG12	1.72	0.89
10:AJ:69:VAL:CG1	10:AJ:104:LEU:HD21	2.01	0.89
11:AK:33:GLU:HG2	11:AK:59:LEU:HD11	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1342:C:H4'	12:AL:125:TYR:HB2	1.55	0.89
21:AU:79:LEU:O	21:AU:79:LEU:HD13	1.72	0.89
25:BA:973:A:H1'	25:BA:1188:U:O4	1.71	0.89
25:BA:1681:G:H21	25:BA:1762:A:H3'	1.32	0.89
25:BA:1784:A:HO2'	25:BA:1785:A:H8	0.95	0.89
25:BA:2002:G:H2'	25:BA:2003:G:H5'	1.53	0.89
25:BA:2061:G:O2'	25:BA:2062:A:H5''	1.72	0.89
25:BA:270(X):G:C2'	25:BA:270(Y):G:H5'	2.02	0.89
25:BA:443:A:OP1	30:BF:46:ARG:HB3	1.73	0.89
25:BA:52:A:H2'	25:BA:53:A:C8	2.06	0.89
25:BA:534:U:HO2'	42:BT:49:HIS:CD2	1.90	0.89
28:BD:161:THR:CG2	28:BD:196:VAL:H	1.85	0.89
29:BE:60:ASN:CG	29:BE:61:ARG:H	1.76	0.89
25:BA:2314:C:H5'	31:BG:38:VAL:HG21	1.52	0.89
35:BM:16:ILE:N	35:BM:16:ILE:HD12	1.88	0.89
35:BM:18:ALA:HB2	35:BM:54:VAL:HG13	1.54	0.89
36:BN:10:VAL:HG13	36:BN:11:ALA:N	1.82	0.89
36:BN:22:ILE:HB	36:BN:40:VAL:HG13	1.55	0.89
43:BU:40:LEU:HD11	43:BU:55:ALA:HA	1.54	0.89
44:BV:90:ARG:HH21	44:BV:90:ARG:H	1.19	0.89
46:BX:14:LEU:HD22	46:BX:19:LYS:HB2	1.52	0.89
33:BK:114:LEU:HD22	33:BK:130:TYR:HB3	1.54	0.89
5:AE:36:ARG:NE	5:AE:36:ARG:HA	1.87	0.89
5:AE:175:ARG:HA	5:AE:178:ARG:HB2	1.55	0.89
5:AE:238:LEU:HD23	5:AE:239:VAL:HG23	1.55	0.89
5:AE:68:ILE:HB	5:AE:70:PHE:CE1	2.08	0.89
10:AJ:62:PHE:HD2	10:AJ:63:LYS:HZ1	1.15	0.89
51:B3:47:GLN:HA	51:B3:52:THR:CB	2.00	0.89
56:B8:7:VAL:HG13	56:B8:34:GLN:OE1	1.71	0.89
25:BA:1808:U:N3	25:BA:1810:A:N1	2.20	0.89
25:BA:1951:U:H2'	25:BA:1951:U:O2	1.70	0.89
28:BD:133:LEU:O	28:BD:136:ILE:HG13	1.71	0.89
30:BF:122:LYS:HE3	30:BF:192:LEU:HD12	1.54	0.89
32:BH:9:ILE:CD1	32:BH:73:ALA:HB2	2.01	0.89
33:BK:2:LYS:HD2	33:BK:39:ALA:CA	2.02	0.89
36:BN:59:LYS:HE2	36:BN:59:LYS:N	1.88	0.89
37:BO:138:LEU:HD11	37:BO:145:PRO:CG	2.01	0.89
43:BU:20:LEU:HB3	43:BU:95:LEU:HD22	1.55	0.89
1:AA:1500:A:H5''	1:AA:1508:G:H5''	1.55	0.89
1:AA:722:A:H2'	1:AA:724:G:C8	2.06	0.89
1:AA:961:U:C5	1:AA:983:A:C5	2.60	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:14:ILE:HG13	6:AF:178:LEU:O	1.71	0.89
19:AS:19:ILE:HB	19:AS:37:GLY:O	1.72	0.89
25:BA:1496:A:H2'	25:BA:1496:A:N3	1.85	0.89
25:BA:2517:C:O2'	25:BA:2518:A:H3'	1.73	0.89
25:BA:2700:C:H2'	25:BA:2701:C:H5''	1.54	0.89
25:BA:2781:A:H2'	25:BA:2782:G:O2'	1.72	0.89
25:BA:392:C:H2'	25:BA:393:C:H6	1.38	0.89
25:BA:13:A:N6	25:BA:525:U:C2	2.39	0.89
25:BA:784:A:OP1	25:BA:2588:G:H5''	1.71	0.89
25:BA:2393:A:C4'	37:BO:56:SER:H	1.85	0.89
42:BT:53:ARG:O	42:BT:56:ASP:HB2	1.72	0.89
43:BU:15:GLU:HA	43:BU:100:ARG:CZ	2.01	0.89
47:BY:4:ARG:O	47:BY:5:LEU:HD23	1.73	0.89
33:BK:66:GLU:HA	33:BK:69:LYS:HD3	1.54	0.89
39:BQ:60:LEU:HD23	39:BQ:60:LEU:H	1.36	0.89
1:AA:84:U:H2'	1:AA:85:U:O4'	1.72	0.89
1:AA:1346:A:N6	1:AA:1374:A:H3'	1.87	0.89
1:AA:452:A:H2'	1:AA:453:A:C8	2.07	0.89
5:AE:204:ASN:ND2	5:AE:205:ASP:H	1.70	0.89
8:AH:92:LYS:O	8:AH:119:LEU:HD12	1.72	0.89
11:AK:114:THR:HG23	11:AK:119:LEU:HD23	1.51	0.89
18:AR:71:GLN:O	18:AR:75:PRO:HD3	1.73	0.89
19:AS:6:LEU:N	19:AS:6:LEU:HD13	1.88	0.89
1:AA:192:U:C1'	23:AW:103:GLY:HA2	2.02	0.89
1:AA:1268:A:H4'	24:AX:20:LYS:HB2	1.54	0.89
25:BA:1158:C:O2'	50:B2:32:GLN:HG2	1.71	0.89
53:B5:24:GLU:O	53:B5:26:ASN:ND2	2.05	0.89
55:B7:16:ILE:HG13	55:B7:22:VAL:HG23	1.51	0.89
25:BA:1675:C:O2	25:BA:1675:C:H2'	1.71	0.89
25:BA:1799:G:H1	28:BD:157:ARG:NH1	1.71	0.89
25:BA:1966:A:C1'	25:BA:2593:U:H5'	2.02	0.89
25:BA:2698:U:H2'	25:BA:2699:C:C6	2.07	0.89
25:BA:728:G:O6	25:BA:762:U:H2'	1.72	0.89
28:BD:59:LYS:O	28:BD:59:LYS:HE3	1.72	0.89
35:BM:43:THR:CB	35:BM:44:PRO:HD2	2.00	0.89
36:BN:96:THR:CG2	36:BN:97:ARG:H	1.86	0.89
25:BA:811:U:H5	37:BO:24:GLY:N	1.69	0.89
38:BP:77:LYS:HB2	38:BP:78:PRO:HD3	1.53	0.89
43:BU:20:LEU:CD2	43:BU:95:LEU:HD13	2.02	0.89
47:BY:24:LEU:HD23	47:BY:25:PRO:HD2	1.54	0.89
48:BZ:36:ILE:HD11	48:BZ:58:THR:HG22	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:157:LEU:HD22	47:BY:161:VAL:HA	1.52	0.89
34:BL:17:ALA:HB1	34:BL:38:VAL:HG13	1.52	0.89
4:A1:13:A:OP2	4:A1:13:A:C8	2.26	0.89
1:AA:1389:C:H2'	1:AA:1390:U:O4'	1.72	0.89
1:AA:173:U:C5'	1:AA:197:A:H1'	2.02	0.89
1:AA:1338:G:N2	2:AC:41:C:H1'	1.87	0.89
3:AD:63:G:H2'	3:AD:64:C:C6	2.07	0.89
7:AG:59:ARG:HH22	7:AG:66:ARG:NH1	1.70	0.89
1:AA:1194:U:H4'	8:AH:22:GLY:O	1.72	0.89
9:AI:52:ILE:HD13	9:AI:87:ARG:HH21	1.36	0.89
11:AK:95:VAL:HB	11:AK:99:GLU:CD	1.93	0.89
18:AR:62:GLN:NE2	18:AR:66:LEU:HD21	1.87	0.89
55:B7:13:ARG:O	55:B7:14:VAL:HB	1.70	0.89
25:BA:1326:U:H2'	25:BA:1327:C:H5'	1.55	0.89
25:BA:1776:G:H2'	25:BA:1777:U:H5'	1.53	0.89
25:BA:752:A:N6	25:BA:1781:C:H1'	1.88	0.89
25:BA:1992:G:H1	25:BA:1996:C:H41	1.15	0.89
25:BA:2478:A:H5'	56:B8:31:LYS:NZ	1.87	0.89
26:BB:44:G:N2	26:BB:48:A:H1'	1.87	0.89
27:BC:190:ARG:HG3	27:BC:193:ILE:HD12	1.55	0.89
28:BD:63:ARG:NH1	28:BD:87:ASN:HD21	1.70	0.89
28:BD:87:ASN:N	28:BD:87:ASN:HD22	1.69	0.89
29:BE:13:ARG:CZ	29:BE:20:ALA:CB	2.51	0.89
29:BE:54:GLN:HB3	29:BE:57:LYS:NZ	1.87	0.89
36:BN:23:ARG:CB	36:BN:23:ARG:HH11	1.85	0.89
44:BV:70:TYR:CD2	44:BV:110:LYS:HB2	2.07	0.89
5:AE:75:LYS:HA	5:AE:75:LYS:NZ	1.87	0.89
6:AF:112:SER:O	6:AF:116:VAL:HG23	1.73	0.89
1:AA:1367:C:OP2	12:AL:115:GLY:HA2	1.71	0.89
15:AO:32:PHE:HB3	15:AO:84:LEU:HD21	1.54	0.89
1:AA:1230:C:H1'	16:AP:126:LYS:HG3	1.54	0.89
18:AR:70:LEU:HD21	18:AR:77:ARG:HH12	1.38	0.89
20:AT:62:SER:OG	20:AT:72:ARG:HG2	1.72	0.89
51:B3:58:ARG:O	51:B3:61:ARG:HB3	1.73	0.89
25:BA:1518:C:C2	25:BA:1519:G:H1'	2.07	0.89
25:BA:2025:C:H2'	25:BA:2026:C:C6	2.08	0.89
25:BA:2584:U:H2'	25:BA:2585:U:C6	2.07	0.89
25:BA:2604:U:O2'	25:BA:2605:U:H5'	1.73	0.89
25:BA:2620:C:OP1	29:BE:153:GLY:HA2	1.72	0.89
25:BA:2746:U:H4'	32:BH:139:GLN:HA	1.53	0.89
25:BA:592:G:H5'	25:BA:593:G:OP2	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:783:A:H2'	25:BA:784:A:C5'	2.02	0.89
25:BA:972:G:OP2	25:BA:972:G:H8	1.56	0.89
28:BD:232:PRO:HD2	28:BD:233:HIS:CE1	2.08	0.89
30:BF:41:LEU:HA	30:BF:44:ARG:HE	1.32	0.89
40:BR:11:LYS:HA	40:BR:14:VAL:CB	2.02	0.89
46:BX:72:VAL:CG1	46:BX:74:PRO:HD3	2.02	0.89
1:AA:545:C:O2'	1:AA:546:G:H5'	1.73	0.89
1:AA:781:A:C2'	1:AA:782:A:H5'	2.03	0.89
1:AA:978:A:N6	1:AA:1361:G:H22	1.71	0.89
9:AI:86:ARG:O	9:AI:87:ARG:HG2	1.72	0.89
10:AJ:138:LYS:HE2	10:AJ:142:GLU:OE1	1.73	0.89
15:AO:38:THR:HG23	15:AO:39:VAL:H	1.38	0.89
18:AR:54:ARG:HE	18:AR:58:MET:HE3	1.38	0.89
14:AN:110:ASP:CA	21:AU:88:LYS:HD2	2.02	0.89
45:BW:7:VAL:HG21	49:B1:31:ARG:NH2	1.88	0.89
49:B1:3:LYS:NZ	49:B1:6:GLU:HG3	1.87	0.89
50:B2:37:LEU:HD21	50:B2:39:ASP:HA	1.54	0.89
50:B2:22:ALA:HB1	50:B2:46:ASN:OD1	1.72	0.89
25:BA:2282:G:H1'	25:BA:2390:U:O4	1.72	0.89
25:BA:199:A:C4	25:BA:2433:A:H2	1.90	0.89
25:BA:917:A:H2'	25:BA:918:A:H5''	1.55	0.89
27:BC:162:GLU:HG3	27:BC:163:PHE:N	1.86	0.89
25:BA:2227:A:H5''	28:BD:260:ARG:HD2	1.53	0.89
25:BA:1805:U:H1'	28:BD:51:VAL:CG1	2.02	0.89
29:BE:152:LYS:HG2	35:BM:78:TYR:HB2	1.52	0.89
30:BF:121:GLY:HA2	30:BF:191:ARG:HH11	1.37	0.89
35:BM:127:ASP:O	35:BM:130:HIS:HB2	1.73	0.89
38:BP:112:GLU:HA	38:BP:115:MET:HB2	1.54	0.89
39:BQ:67:LEU:HD23	39:BQ:76:VAL:HG21	1.55	0.89
40:BR:71:ARG:N	40:BR:104:GLY:HA2	1.88	0.89
42:BT:97:ASP:HB3	42:BT:101:ARG:NH2	1.87	0.89
42:BT:93:LYS:HG2	43:BU:10:LYS:NZ	1.86	0.89
44:BV:45:TYR:H	44:BV:45:TYR:HD2	1.20	0.89
47:BY:9:TYR:C	47:BY:14:LYS:HG2	1.93	0.89
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.87	0.88
1:AA:375:U:O3'	19:AS:6:LEU:HD21	1.72	0.88
21:AU:74:ARG:HA	21:AU:79:LEU:HD13	1.55	0.88
25:BA:1795:C:O2'	25:BA:1796:U:H5'	1.73	0.88
25:BA:2122:U:H2'	25:BA:2123:G:H5''	1.53	0.88
25:BA:2407:G:H21	25:BA:2408:U:H1'	1.33	0.88
25:BA:2570:G:N3	25:BA:2570:G:H2'	1.84	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:477:A:N6	25:BA:502:A:H61	1.71	0.88
25:BA:618:G:H2'	25:BA:618(A):C:H6	1.38	0.88
25:BA:704:G:H22	25:BA:726:G:C1'	1.85	0.88
27:BC:212:VAL:HG11	27:BC:226:PRO:HG3	1.55	0.88
31:BG:174:GLU:O	31:BG:179:PRO:HD3	1.72	0.88
40:BR:14:VAL:HG12	40:BR:15:ARG:N	1.86	0.88
42:BT:57:PHE:HB3	42:BT:61:TRP:HE1	1.38	0.88
43:BU:57:VAL:HG12	43:BU:58:VAL:H	1.38	0.88
47:BY:105:VAL:HB	47:BY:140:ASP:OD2	1.73	0.88
25:BA:380:U:O2'	25:BA:381:G:H5'	1.73	0.88
1:AA:961:U:H1'	1:AA:1201:A:H61	1.37	0.88
1:AA:1407:C:H2'	1:AA:1408:A:O4'	1.73	0.88
10:AJ:113:GLU:HG3	10:AJ:118:VAL:HB	1.54	0.88
6:AF:5:ILE:HG23	13:AM:51:ARG:HH12	1.36	0.88
49:B1:36:ILE:HG23	49:B1:37:GLY:N	1.89	0.88
55:B7:58:ILE:HA	55:B7:61:LEU:HD12	1.53	0.88
25:BA:1341:U:H3'	25:BA:1341:U:C6	2.08	0.88
25:BA:1341:U:H3'	25:BA:1341:U:H6	1.36	0.88
25:BA:1697:G:H5''	25:BA:1698:A:H5''	1.55	0.88
25:BA:1957:C:H1'	25:BA:1985:G:O2'	1.72	0.88
25:BA:2862:G:H2'	25:BA:2863:C:C6	2.07	0.88
25:BA:529:A:O2'	25:BA:530:G:N7	2.06	0.88
25:BA:76:C:H2'	25:BA:77:C:H5'	1.55	0.88
25:BA:775:G:H2'	25:BA:794:G:C8	2.06	0.88
25:BA:783:A:N6	25:BA:785:G:C8	2.41	0.88
25:BA:828:U:C2'	25:BA:829:A:C8	2.55	0.88
28:BD:147:LEU:HA	28:BD:185:VAL:HG13	1.52	0.88
38:BP:22:LYS:HD2	38:BP:99:PRO:CB	2.03	0.88
36:BN:79:PHE:HB2	41:BS:73:GLU:CG	2.03	0.88
46:BX:22:GLY:H	46:BX:73:ARG:HH12	1.17	0.88
1:AA:1350:A:OP2	12:AL:118:LYS:HE3	1.72	0.88
1:AA:453:A:N6	1:AA:480:U:N3	2.21	0.88
5:AE:222:ILE:CD1	5:AE:226:ARG:HH21	1.87	0.88
9:AI:47:ARG:HG2	9:AI:57:GLN:HB3	1.55	0.88
15:AO:88:GLY:N	15:AO:98:TYR:HA	1.87	0.88
22:AV:16:LEU:O	22:AV:19:VAL:HG12	1.72	0.88
54:B6:42:LEU:C	54:B6:44:PRO:HD2	1.94	0.88
25:BA:176:G:H2'	25:BA:177:G:O4'	1.73	0.88
25:BA:2307:G:H2'	25:BA:2308:G:O2'	1.73	0.88
25:BA:242:G:H8	55:B7:4:MET:HG3	1.35	0.88
25:BA:874:G:H2'	25:BA:874:G:N3	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:157:ARG:HH11	28:BD:178:PRO:CG	1.87	0.88
29:BE:80:GLU:HG2	29:BE:83:ASP:CG	1.93	0.88
32:BH:89:ILE:HG22	32:BH:131:VAL:CG1	2.02	0.88
25:BA:2748:A:O2'	32:BH:66:GLY:HA3	1.74	0.88
35:BM:55:VAL:HG21	35:BM:127:ASP:HA	1.55	0.88
36:BN:121:VAL:HA	41:BS:70:VAL:CG1	2.02	0.88
38:BP:74:TYR:H	38:BP:74:TYR:HD2	1.20	0.88
1:AA:160:A:H1'	1:AA:344:A:N7	1.89	0.88
7:AG:128:VAL:HG21	7:AG:133:VAL:HG23	1.56	0.88
9:AI:76:ALA:CB	9:AI:80:ARG:HH21	1.85	0.88
15:AO:28:LYS:HD2	15:AO:33:ARG:NH2	1.88	0.88
20:AT:43:LEU:HD13	20:AT:44:ALA:N	1.87	0.88
22:AV:36:ARG:NH1	22:AV:72:GLY:HA2	1.88	0.88
23:AW:35:THR:HA	23:AW:38:LYS:HD2	1.56	0.88
25:BA:95:G:H1'	49:B1:42:ASN:ND2	1.88	0.88
51:B3:61:ARG:HG3	51:B3:61:ARG:HH11	1.35	0.88
25:BA:1518:C:H2'	25:BA:1519:G:C4'	2.02	0.88
25:BA:1665:A:H2'	25:BA:1666:G:O4'	1.72	0.88
25:BA:1944:U:H1'	25:BA:1955:U:C1'	2.02	0.88
25:BA:2808:U:O2'	25:BA:2810:A:O5'	1.90	0.88
25:BA:860:U:H1'	25:BA:2267:A:H4'	1.55	0.88
26:BB:100:G:C2'	26:BB:101:A:H8	1.86	0.88
29:BE:36:ARG:HD3	29:BE:41:LYS:HZ1	1.39	0.88
32:BH:124:GLU:O	32:BH:131:VAL:HG23	1.73	0.88
37:BO:16:ARG:HD3	37:BO:19:VAL:H	1.38	0.88
38:BP:101:ARG:HG3	38:BP:101:ARG:HH11	1.37	0.88
38:BP:6:ARG:HB2	38:BP:44:ALA:HB1	1.54	0.88
38:BP:42:ILE:O	38:BP:94:VAL:HB	1.71	0.88
41:BS:34:VAL:HG13	41:BS:36:GLU:HB2	1.56	0.88
25:BA:2848:G:C8	41:BS:99:LEU:HD13	2.08	0.88
42:BT:53:ARG:HG3	42:BT:57:PHE:CE1	2.09	0.88
42:BT:88:ILE:N	43:BU:52:VAL:HG22	1.87	0.88
43:BU:72:VAL:O	43:BU:89:GLN:HB2	1.72	0.88
43:BU:7:THR:HG23	43:BU:11:GLN:NE2	1.88	0.88
46:BX:50:ARG:HG3	46:BX:54:LYS:HB2	1.55	0.88
47:BY:104:PHE:HZ	47:BY:120:ILE:HG23	1.37	0.88
25:BA:844:C:H3'	25:BA:845:G:H8	1.38	0.88
1:AA:571:U:H3'	1:AA:572:A:C5'	1.99	0.88
13:AM:18:ALA:HB3	13:AM:91:PRO:HB3	1.55	0.88
13:AM:94:VAL:HG12	13:AM:95:GLU:H	1.37	0.88
20:AT:59:ILE:HD12	20:AT:72:ARG:O	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:50:GLU:N	23:AW:99:LEU:HD12	1.88	0.88
49:B1:5:LEU:HD23	49:B1:9:ARG:HE	1.36	0.88
25:BA:1547:C:O2'	25:BA:1548:C:H5'	1.74	0.88
25:BA:1639:U:H2'	25:BA:1640:C:H5''	1.55	0.88
25:BA:1712:C:H2'	25:BA:1716:U:C6	2.07	0.88
25:BA:2305:A:H2'	25:BA:2306:C:C5'	2.02	0.88
25:BA:2468:G:C2'	25:BA:2476:A:H2	1.82	0.88
29:BE:23:VAL:HG23	29:BE:184:VAL:HG23	1.53	0.88
31:BG:60:LEU:O	31:BG:63:ILE:HG22	1.73	0.88
31:BG:57:ALA:HA	31:BG:68:PRO:N	1.89	0.88
32:BH:94:TYR:C	32:BH:95:ARG:HD2	1.93	0.88
37:BO:105:LEU:O	37:BO:106:LEU:HG	1.73	0.88
42:BT:77:SER:O	42:BT:81:HIS:HB2	1.74	0.88
47:BY:100:VAL:O	47:BY:124:ILE:HG23	1.74	0.88
13:AM:8:LEU:HD13	13:AM:94:VAL:CG1	2.03	0.88
18:AR:60:VAL:HA	18:AR:63:ARG:HD3	1.55	0.88
19:AS:67:THR:HB	19:AS:70:ALA:HB2	1.54	0.88
52:B4:4:HIS:CG	52:B4:5:PRO:HD3	2.09	0.88
54:B6:43:THR:N	54:B6:44:PRO:HD2	1.88	0.88
25:BA:1859:A:N1	25:BA:1884:A:H1'	1.87	0.88
25:BA:2282:G:N2	25:BA:2425:A:C8	2.41	0.88
25:BA:2287:A:H2	53:B5:37:ARG:NH2	1.72	0.88
25:BA:2356:C:H2'	25:BA:2357:U:O5'	1.73	0.88
25:BA:2720:U:O4	25:BA:2873:A:N6	2.06	0.88
25:BA:452:G:H2'	25:BA:457:A:H61	1.39	0.88
18:AR:60:VAL:CG1	25:BA:715:G:H5''	2.04	0.88
28:BD:244:ARG:N	28:BD:245:PRO:HD3	1.87	0.88
28:BD:39:LYS:CD	28:BD:39:LYS:H	1.81	0.88
25:BA:1813:G:H2'	28:BD:52:ARG:HH12	1.31	0.88
28:BD:8:PRO:HG2	28:BD:26:LYS:HG3	1.54	0.88
29:BE:5:LEU:HD21	29:BE:196:VAL:HB	1.54	0.88
37:BO:81:GLN:HA	37:BO:86:LYS:HG3	1.54	0.88
38:BP:59:ARG:NH2	38:BP:62:GLY:H	1.70	0.88
39:BQ:42:LYS:O	39:BQ:45:ARG:HB3	1.74	0.88
44:BV:16:LYS:CD	44:BV:16:LYS:N	2.37	0.88
44:BV:34:ASN:O	44:BV:37:ARG:HG3	1.72	0.88
47:BY:127:LYS:HD2	47:BY:163:LEU:CA	2.04	0.88
47:BY:6:LYS:HA	47:BY:37:VAL:HG13	1.54	0.88
33:BK:109:ILE:HG21	33:BK:113:ARG:CZ	2.04	0.88
1:AA:1005:A:H5''	1:AA:1006:C:C5	2.09	0.88
2:AC:28:C:H2'	2:AC:29:G:H8	1.35	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1210:C:H4'	1:AA:1214:C:N4	1.88	0.88
1:AA:598:U:H4'	11:AK:94:TYR:HD2	1.39	0.88
5:AE:187:LEU:HD21	5:AE:203:GLY:O	1.74	0.88
10:AJ:10:ARG:CB	10:AJ:10:ARG:HH11	1.87	0.88
51:B3:65:ASP:HA	51:B3:68:ARG:HH12	1.38	0.88
53:B5:19:ARG:NH1	53:B5:43:CYS:HB2	1.89	0.88
54:B6:17:GLY:O	54:B6:20:ALA:HB3	1.73	0.88
56:B8:19:ARG:HD2	56:B8:22:ARG:HB2	1.52	0.88
25:BA:1006:C:O2	35:BM:106:MET:HG2	1.73	0.88
25:BA:1750:G:O2'	25:BA:1751:C:H5'	1.72	0.88
25:BA:1775:U:C5	25:BA:1776:G:C8	2.62	0.88
25:BA:197:A:C2	25:BA:198:C:H1'	2.09	0.88
25:BA:2250:G:H5''	25:BA:2250:G:C8	2.09	0.88
25:BA:278:A:N7	25:BA:359:A:H2	1.71	0.88
25:BA:545:G:H1'	25:BA:549:G:H22	1.38	0.88
25:BA:576:U:H2'	25:BA:577:G:C8	2.09	0.88
25:BA:988:A:H4'	25:BA:1155:A:H2	1.36	0.88
30:BF:103:LYS:HG3	30:BF:106:ARG:HH11	1.39	0.88
31:BG:33:ARG:HH21	31:BG:34:LEU:HA	1.39	0.88
32:BH:117:PRO:HB3	32:BH:123:PHE:CZ	2.09	0.88
33:BK:2:LYS:HD2	33:BK:39:ALA:CB	2.02	0.88
36:BN:39:ILE:HG12	36:BN:59:LYS:CE	2.04	0.88
36:BN:96:THR:CG2	36:BN:97:ARG:N	2.35	0.88
37:BO:58:THR:HG22	37:BO:60:MET:HG2	1.54	0.88
37:BO:80:TYR:CZ	37:BO:85:LEU:HD22	2.09	0.88
47:BY:39:VAL:HG22	47:BY:44:PHE:CE2	2.07	0.88
8:AH:5:ASP:O	8:AH:36:ASP:HA	1.73	0.88
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.09	0.88
1:AA:1363:A:H4'	1:AA:1364:U:O5'	1.73	0.88
6:AF:47:LEU:HD12	6:AF:49:SER:HB3	1.54	0.88
7:AG:20:TYR:CB	7:AG:27:TYR:HA	2.03	0.88
15:AO:77:LEU:HD21	15:AO:107:ALA:HB2	1.55	0.88
50:B2:37:LEU:O	50:B2:37:LEU:HD23	1.74	0.88
25:BA:564:C:H2'	25:BA:565:C:O4'	1.74	0.88
25:BA:817:C:H2'	25:BA:818:G:O4'	1.72	0.88
25:BA:987:G:H2'	25:BA:988:A:H5'	1.56	0.88
27:BC:39:GLU:CD	27:BC:216:THR:HB	1.94	0.88
28:BD:148:GLU:CB	28:BD:154:LYS:HZ2	1.87	0.88
31:BG:8:LYS:HD2	31:BG:100:TRP:HD1	1.39	0.88
31:BG:131:TYR:CE1	31:BG:157:ILE:O	2.27	0.88
36:BN:105:GLU:C	36:BN:111:PHE:HZ	1.76	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:3:ARG:HA	41:BS:7:ILE:HD11	1.56	0.88
1:AA:164:U:H2'	1:AA:165:C:H5	1.39	0.88
1:AA:8:A:H4'	1:AA:9:G:OP1	1.73	0.88
5:AE:25:ASN:HD21	5:AE:27:LYS:CG	1.85	0.88
7:AG:173:TRP:HA	7:AG:186:LEU:CD2	2.03	0.88
9:AI:17:SER:O	9:AI:20:ALA:HB3	1.73	0.88
9:AI:21:LEU:O	9:AI:25:ILE:HG13	1.73	0.88
10:AJ:155:ARG:HA	10:AJ:155:ARG:NE	1.88	0.88
18:AR:70:LEU:HG	18:AR:78:TYR:CD1	2.09	0.88
20:AT:91:ARG:HA	20:AT:94:ASN:ND2	1.88	0.88
23:AW:48:LYS:HB3	23:AW:51:GLU:OE2	1.72	0.88
49:B1:52:ILE:O	49:B1:56:LEU:HD22	1.74	0.88
53:B5:17:LYS:HD3	53:B5:17:LYS:H	1.37	0.88
25:BA:1274:A:N3	25:BA:1297:C:H1'	1.89	0.88
25:BA:1454:U:H5'	25:BA:1455:G:OP2	1.74	0.88
25:BA:1504:C:H2'	25:BA:1505:C:H6	1.39	0.88
25:BA:1725:G:C6	25:BA:1741:C:N4	2.42	0.88
25:BA:1798:U:H5'	28:BD:257:LEU:HD12	1.56	0.88
25:BA:570:G:C6	25:BA:2030:A:H2	1.91	0.88
25:BA:2755:C:C4'	25:BA:2756:U:C6	2.53	0.88
25:BA:342:G:H2'	25:BA:343:C:C6	2.09	0.88
25:BA:289:A:H2'	25:BA:351:G:H1	1.38	0.88
25:BA:614:U:H5''	25:BA:615:G:OP2	1.74	0.88
25:BA:791:C:N3	25:BA:794:G:H1'	1.87	0.88
30:BF:200:GLU:O	30:BF:203:GLN:HB2	1.73	0.88
26:BB:45:A:H1'	31:BG:95:ARG:NH1	1.89	0.88
32:BH:69:ARG:HB2	32:BH:69:ARG:CZ	2.02	0.88
46:BX:12:THR:HG21	46:BX:71:LYS:C	1.92	0.88
33:BK:82:ARG:O	33:BK:88:ILE:HG23	1.73	0.88
3:AD:63:G:H2'	3:AD:64:C:H6	1.37	0.88
17:AQ:26:ARG:HB2	17:AQ:39:LEU:HD22	1.55	0.88
22:AV:40:ILE:HB	22:AV:67:VAL:O	1.71	0.88
51:B3:65:ASP:CA	51:B3:68:ARG:HH12	1.87	0.88
53:B5:25:LYS:CE	55:B7:35:GLN:HB3	2.04	0.88
25:BA:1716:U:O2	25:BA:1716:U:H2'	1.74	0.88
25:BA:270(M):U:C4'	25:BA:270(N):G:H4'	2.01	0.88
25:BA:342:G:H2'	25:BA:343:C:H6	1.37	0.88
25:BA:503:A:H4'	25:BA:504:U:H5''	1.56	0.88
28:BD:17:THR:O	28:BD:19:ALA:N	2.07	0.88
30:BF:35:GLU:N	30:BF:38:ARG:HH21	1.71	0.88
32:BH:33:LEU:HD11	32:BH:74:ASN:HD21	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:33:ARG:CG	39:BQ:113:LEU:HD21	2.04	0.88
39:BQ:86:ARG:HB2	39:BQ:86:ARG:NH1	1.88	0.88
40:BR:62:LYS:HB3	40:BR:65:VAL:H	1.39	0.88
44:BV:18:ARG:HH21	44:BV:18:ARG:HG2	1.39	0.88
34:BL:112:MET:CE	34:BL:118:THR:HG22	2.04	0.88
34:BL:71:THR:OG1	34:BL:114:ASP:HB3	1.73	0.88
6:AF:87:LEU:HB2	6:AF:101:LEU:CD1	2.04	0.87
6:AF:40:ARG:HA	6:AF:43:LEU:HD13	1.54	0.87
7:AG:121:VAL:HB	7:AG:136:PRO:HG3	1.54	0.87
9:AI:77:ARG:CA	9:AI:80:ARG:HD2	2.02	0.87
11:AK:39:LEU:HB3	11:AK:45:ILE:HG21	1.56	0.87
51:B3:42:PHE:O	51:B3:57:GLU:HA	1.74	0.87
25:BA:179:G:H5'	54:B6:32:LYS:HZ3	1.35	0.87
55:B7:38:GLY:O	55:B7:40:GLU:HG2	1.73	0.87
25:BA:1263:U:C2	25:BA:1264:G:N2	2.42	0.87
25:BA:1355:G:N2	25:BA:1377:G:H1'	1.89	0.87
25:BA:1400:G:H2'	25:BA:1401:G:C8	2.09	0.87
25:BA:1475:G:N2	25:BA:1476:C:H5''	1.87	0.87
25:BA:1729:A:H62	25:BA:1731:G:H1	0.91	0.87
25:BA:1913:A:H2'	25:BA:1916:A:C2	2.09	0.87
25:BA:1937:A:N6	25:BA:1939:U:C4	2.42	0.87
25:BA:1992:G:C1'	25:BA:1993:U:O4	2.21	0.87
25:BA:2110:G:H2'	25:BA:2120:G:C5'	2.03	0.87
25:BA:215:G:H4'	25:BA:216:A:H4'	1.56	0.87
25:BA:273:G:H2'	25:BA:273(A):G:H8	1.37	0.87
25:BA:635:C:O2'	25:BA:636:G:H5'	1.74	0.87
25:BA:713:G:N3	25:BA:713:G:H2'	1.87	0.87
25:BA:1789:A:H4'	28:BD:222:ARG:CZ	2.04	0.87
35:BM:69:GLN:HE21	35:BM:69:GLN:H	1.17	0.87
1:AA:1210:C:H4'	1:AA:1214:C:N3	1.88	0.87
1:AA:1406:U:H2'	1:AA:1406:U:O2	1.73	0.87
1:AA:777:A:H2'	1:AA:778:G:H8	1.38	0.87
1:AA:923:A:OP1	8:AH:21:ALA:HB2	1.74	0.87
11:AK:6:ILE:HG23	11:AK:7:ALA:N	1.89	0.87
21:AU:67:ALA:HA	21:AU:70:ILE:HD12	1.54	0.87
49:B1:51:GLN:HA	49:B1:54:ARG:CD	2.02	0.87
54:B6:25:PRO:HB2	54:B6:29:LYS:NZ	1.89	0.87
25:BA:1203:G:O6	25:BA:1240:U:N1	2.07	0.87
25:BA:1231:G:H2'	25:BA:1232:G:H8	1.36	0.87
25:BA:1438:U:H3	25:BA:1553:A:H62	1.18	0.87
25:BA:1498:C:H6	25:BA:1576:U:C4'	1.88	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:740:U:C2	25:BA:1784:A:N7	2.42	0.87
25:BA:1843:C:H4'	28:BD:255:LYS:HE3	1.57	0.87
25:BA:2453:A:O2'	25:BA:2454:G:H5'	1.74	0.87
25:BA:2509:G:O2'	25:BA:2510:C:H5'	1.74	0.87
25:BA:2832:U:H4'	25:BA:2832:U:OP1	1.73	0.87
25:BA:319:C:N4	25:BA:320:A:H62	1.73	0.87
25:BA:653:A:N6	25:BA:655:A:H1'	1.89	0.87
25:BA:996:A:H4'	42:BT:93:LYS:HG3	1.55	0.87
32:BH:11:VAL:HG11	32:BH:17:VAL:HG11	1.54	0.87
37:BO:131:SER:O	37:BO:134:ALA:HB3	1.73	0.87
38:BP:51:ARG:HB2	38:BP:51:ARG:HH11	0.77	0.87
39:BQ:96:ARG:HG2	39:BQ:98:LEU:HD11	1.56	0.87
43:BU:62:LEU:HD22	43:BU:99:ILE:N	1.89	0.87
1:AA:1197:G:OP1	1:AA:1197:G:H3'	1.74	0.87
1:AA:559:A:C4'	1:AA:560:U:H5'	2.02	0.87
7:AG:18:LYS:HA	7:AG:33:MET:HE2	1.53	0.87
12:AL:113:LYS:H	12:AL:113:LYS:HD2	1.39	0.87
21:AU:25:THR:HG22	21:AU:42:ARG:NH2	1.88	0.87
25:BA:1197:G:H2'	25:BA:1198:U:O5'	1.75	0.87
25:BA:1270:C:C5'	25:BA:1271:G:H5''	2.03	0.87
25:BA:1334:G:H5''	45:BW:65:ARG:HH22	1.37	0.87
25:BA:301:G:H2'	25:BA:302:C:C6	2.09	0.87
25:BA:880:G:H2'	25:BA:881:G:C4'	2.03	0.87
25:BA:932:G:H2'	25:BA:933:A:H8	1.34	0.87
25:BA:987:G:OP2	50:B2:13:ILE:HD12	1.74	0.87
28:BD:106:ILE:HD11	28:BD:192:THR:HG21	1.54	0.87
29:BE:49:LEU:HD11	29:BE:74:PRO:HB2	1.52	0.87
29:BE:50:GLY:CA	29:BE:76:ARG:HE	1.87	0.87
32:BH:107:VAL:HG13	32:BH:152:ARG:CD	2.04	0.87
33:BK:3:VAL:O	33:BK:18:VAL:HA	1.75	0.87
36:BN:97:ARG:HG3	36:BN:118:ALA:HB2	1.54	0.87
37:BO:135:LEU:HD13	37:BO:135:LEU:H	1.38	0.87
37:BO:16:ARG:CD	37:BO:19:VAL:HG22	2.03	0.87
26:BB:51:G:C5'	40:BR:60:GLY:HA2	2.02	0.87
40:BR:59:LYS:HA	40:BR:65:VAL:HG11	1.55	0.87
41:BS:65:LYS:CE	41:BS:75:ILE:HD13	2.04	0.87
46:BX:95:LYS:HG3	46:BX:103:GLY:CA	2.05	0.87
1:AA:1124:G:N7	1:AA:1145:C:H2'	1.89	0.87
1:AA:51:A:C2	1:AA:116:A:H1'	2.09	0.87
5:AE:68:ILE:HB	5:AE:70:PHE:CZ	2.09	0.87
8:AH:109:ILE:HG21	8:AH:135:THR:HG21	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:103:VAL:HB	11:AK:108:GLY:CA	2.05	0.87
25:BA:2419:U:O4	55:B7:31:HIS:CE1	2.27	0.87
25:BA:270(Z):U:H2'	25:BA:270(Z):U:O2	1.74	0.87
25:BA:950:G:H2'	25:BA:951:C:H6	1.10	0.87
28:BD:151:LYS:HB2	28:BD:154:LYS:HZ3	1.35	0.87
28:BD:210:GLY:O	28:BD:214:TRP:HB2	1.73	0.87
25:BA:2052:G:H4'	29:BE:143:ASN:HA	1.56	0.87
16:AP:3:ARG:HD3	31:BG:140:ILE:HB	1.55	0.87
32:BH:9:ILE:HD11	32:BH:69:ARG:NH2	1.89	0.87
35:BM:69:GLN:NE2	35:BM:87:LEU:HD22	1.88	0.87
35:BM:6:PRO:HG3	35:BM:41:ASP:O	1.75	0.87
36:BN:7:TYR:N	36:BN:7:TYR:CD1	2.40	0.87
36:BN:76:ALA:HB2	41:BS:76:PHE:CD1	2.09	0.87
43:BU:64:HIS:ND1	43:BU:96:ILE:HG22	1.89	0.87
45:BW:24:GLY:O	45:BW:83:VAL:HG22	1.74	0.87
47:BY:129:SER:HB2	47:BY:133:ILE:HG22	1.53	0.87
47:BY:4:ARG:HG2	47:BY:5:LEU:N	1.89	0.87
6:AF:122:GLU:O	6:AF:125:GLU:HB2	1.73	0.87
1:AA:37:U:O2'	1:AA:500:G:H4'	1.73	0.87
1:AA:720:C:H3'	1:AA:721:G:H8	1.39	0.87
1:AA:760:G:N2	20:AT:104:LYS:HB3	1.89	0.87
1:AA:922:G:HO2'	1:AA:1398:A:N6	1.73	0.87
7:AG:8:VAL:HG21	7:AG:115:ARG:NH2	1.88	0.87
11:AK:120:THR:N	11:AK:123:GLU:OE1	2.07	0.87
1:AA:716:A:H1'	14:AN:118:GLY:HA2	1.57	0.87
20:AT:91:ARG:CA	20:AT:94:ASN:HD22	1.87	0.87
9:AI:48:LEU:HB3	21:AU:78:LEU:CD2	2.04	0.87
50:B2:37:LEU:HD12	50:B2:43:ILE:CG2	2.03	0.87
55:B7:49:VAL:O	55:B7:53:PRO:HG3	1.74	0.87
25:BA:1663:C:H2'	25:BA:1664:A:C8	2.09	0.87
25:BA:1790:C:H2'	25:BA:1791:A:N7	1.89	0.87
25:BA:49:A:N6	25:BA:176:G:C6	2.42	0.87
25:BA:979:G:H3'	25:BA:980:A:C5'	2.04	0.87
38:BP:67:ARG:HG3	38:BP:68:ILE:H	1.36	0.87
38:BP:75:THR:HG23	38:BP:89:ASN:O	1.74	0.87
36:BN:122:LEU:HG	41:BS:71:GLY:O	1.74	0.87
45:BW:21:PHE:HE2	45:BW:27:THR:H	1.21	0.87
46:BX:46:LYS:HB2	46:BX:57:GLN:C	1.95	0.87
1:AA:658:G:O2'	1:AA:659:U:H5'	1.74	0.87
1:AA:585:G:N3	1:AA:879:C:H4'	1.89	0.87
5:AE:102:LEU:CD1	5:AE:102:LEU:H	1.87	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:3:ASN:CG	6:AF:4:LYS:H	1.77	0.87
8:AH:107:ARG:NH1	8:AH:107:ARG:HB2	1.89	0.87
9:AI:98:LEU:HD22	9:AI:101:ALA:CB	2.02	0.87
1:AA:582:U:C5'	18:AR:64:ARG:NH2	2.37	0.87
23:AW:87:LYS:HE3	23:AW:87:LYS:HA	1.55	0.87
25:BA:1566:A:H2'	25:BA:1567:A:H5'	1.56	0.87
25:BA:2073:C:H2'	25:BA:2074:U:H6	1.38	0.87
25:BA:2213:U:H5'	25:BA:2215:G:C5	2.09	0.87
25:BA:2619:C:H4'	29:BE:151:TYR:O	1.75	0.87
25:BA:270(X):G:H2'	25:BA:270(Y):G:C5'	2.05	0.87
39:BQ:113:LEU:HD13	39:BQ:114:VAL:N	1.90	0.87
25:BA:1277:G:H21	39:BQ:23:ASN:HD21	1.22	0.87
41:BS:22:PHE:O	41:BS:24:PRO:HD3	1.75	0.87
46:BX:2:ARG:CD	46:BX:3:VAL:H	1.87	0.87
33:BK:76:THR:HA	33:BK:141:LYS:HG3	1.55	0.87
34:BL:55:VAL:HG22	34:BL:69:THR:HA	1.57	0.87
1:AA:1517:G:H1'	25:BA:1919:A:O3'	1.74	0.87
1:AA:519:C:H2'	1:AA:520:A:C5'	2.04	0.87
2:AC:34:C:C3'	2:AC:35:A:H5''	2.05	0.87
6:AF:135:LYS:NZ	8:AH:52:PRO:HG2	1.90	0.87
6:AF:88:ARG:O	6:AF:91:LEU:HB3	1.75	0.87
8:AH:94:ALA:HB3	8:AH:117:ASP:O	1.72	0.87
11:AK:89:PRO:HA	11:AK:92:ARG:NE	1.89	0.87
12:AL:37:PHE:HE1	12:AL:74:ILE:HG23	1.40	0.87
25:BA:71:A:H62	25:BA:114:U:H1'	1.38	0.87
25:BA:2447:G:H1	25:BA:2452:C:N4	1.72	0.87
25:BA:2523:G:C4	25:BA:2765:A:N6	2.41	0.87
27:BC:7:TYR:HE2	27:BC:11:LEU:HD13	1.40	0.87
37:BO:79:ARG:O	37:BO:83:VAL:HG13	1.75	0.87
36:BN:106:LEU:HB2	41:BS:39:ARG:HH22	1.31	0.87
44:BV:84:ARG:O	44:BV:95:ILE:HG22	1.74	0.87
45:BW:90:GLU:O	45:BW:93:GLU:HG2	1.74	0.87
1:AA:562:C:O2'	15:AO:15:ARG:HD3	1.74	0.87
1:AA:1529:G:H5''	1:AA:1530:G:OP2	1.75	0.87
5:AE:16:HIS:HA	5:AE:204:ASN:CB	2.05	0.87
8:AH:35:GLY:HA3	8:AH:41:VAL:HG12	1.56	0.87
15:AO:68:ALA:HA	15:AO:98:TYR:O	1.74	0.87
19:AS:21:VAL:HG11	19:AS:59:TRP:CD1	2.10	0.87
1:AA:664:G:H5'	21:AU:64:ARG:HH21	1.37	0.87
50:B2:35:ARG:NH1	50:B2:47:VAL:HG22	1.88	0.87
25:BA:1265:A:H8	25:BA:1267:U:N3	1.72	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1510:A:H2'	25:BA:1511:A:N3	1.90	0.87
25:BA:1654:A:HO2'	29:BE:113:PHE:HD1	1.20	0.87
25:BA:1788:C:O2'	28:BD:222:ARG:NE	2.07	0.87
25:BA:2103:C:H2'	25:BA:2104:G:H8	1.37	0.87
25:BA:2210:G:C8	28:BD:68:LYS:HE2	2.10	0.87
25:BA:2064:C:C1'	25:BA:2450:A:N6	2.35	0.87
25:BA:2776:A:H4'	25:BA:2777:G:C5'	2.04	0.87
25:BA:64:A:N3	45:BW:66:LEU:HD22	1.88	0.87
25:BA:85:G:H1'	25:BA:103:A:C2	2.09	0.87
35:BM:70:LYS:NZ	35:BM:86:PRO:HB3	1.89	0.87
36:BN:92:GLU:OE2	36:BN:114:ILE:HB	1.75	0.87
41:BS:54:ARG:HG2	41:BS:100:TYR:HB3	1.56	0.87
45:BW:12:VAL:HG23	45:BW:28:PHE:C	1.94	0.87
45:BW:66:LEU:HG	45:BW:69:TYR:O	1.73	0.87
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.10	0.87
1:AA:325:A:H2'	1:AA:326:G:C8	2.09	0.87
1:AA:509:A:H5'	7:AG:54:TYR:HD2	1.38	0.87
1:AA:51:A:O2'	1:AA:52:G:OP2	1.92	0.87
1:AA:676:A:H2'	1:AA:677:U:H6	1.40	0.87
1:AA:824:C:H2'	1:AA:825:G:C8	2.10	0.87
1:AA:859:A:O2'	1:AA:860:A:H5'	1.74	0.87
5:AE:224:GLN:HG2	5:AE:229:VAL:HG22	1.57	0.87
5:AE:91:PRO:CG	5:AE:155:LEU:H	1.87	0.87
7:AG:60:GLU:HA	7:AG:63:LYS:CD	2.05	0.87
1:AA:964:A:H1'	13:AM:55:LYS:HZ2	1.39	0.87
51:B3:20:ASN:HB2	51:B3:30:GLU:CD	1.94	0.87
53:B5:32:ASN:CG	53:B5:33:LYS:H	1.75	0.87
25:BA:1995:U:C5	25:BA:1996:C:H5	1.92	0.87
25:BA:59:U:H2'	25:BA:60:G:O4'	1.74	0.87
25:BA:748:G:N7	44:BV:90:ARG:NH1	2.23	0.87
29:BE:2:LYS:CE	29:BE:83:ASP:HB3	2.05	0.87
25:BA:675:A:H4'	30:BF:67:GLN:CD	1.94	0.87
31:BG:58:GLN:O	31:BG:61:ALA:HB3	1.73	0.87
38:BP:131:ILE:O	38:BP:132:VAL:HG13	1.74	0.87
42:BT:76:TYR:HD2	42:BT:80:ILE:HD11	1.39	0.87
46:BX:45:VAL:HG12	46:BX:57:GLN:NE2	1.89	0.87
1:AA:88:C:O2'	1:AA:89:U:C6	2.25	0.87
5:AE:19:HIS:NE2	5:AE:206:ASP:HB2	1.89	0.86
7:AG:21:LEU:CD1	7:AG:67:ILE:HG22	2.05	0.86
9:AI:60:PHE:O	9:AI:61:LEU:HD23	1.74	0.86
11:AK:109:ILE:O	11:AK:136:GLU:HB2	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:9:MET:HG2	11:AK:13:ILE:HD11	1.57	0.86
15:AO:88:GLY:H	15:AO:98:TYR:CA	1.86	0.86
19:AS:66:PRO:HD2	19:AS:71:ARG:HH22	1.41	0.86
21:AU:46:GLU:C	21:AU:48:GLY:H	1.73	0.86
21:AU:58:LEU:HB3	21:AU:62:GLU:CB	2.05	0.86
25:BA:1050:A:O2'	25:BA:1051:G:H5'	1.75	0.86
25:BA:1173:G:H21	25:BA:1175:U:P	1.97	0.86
25:BA:1583:A:H5'	25:BA:1585:C:C5'	2.00	0.86
25:BA:2191:G:N2	25:BA:2192:G:H1'	1.90	0.86
25:BA:565:C:H2'	25:BA:565:C:O2	1.74	0.86
30:BF:135:LYS:HE2	30:BF:137:LYS:H	1.39	0.86
32:BH:58:GLU:OE1	32:BH:60:ARG:HB3	1.75	0.86
36:BN:19:ILE:HG22	36:BN:43:VAL:HA	1.57	0.86
43:BU:20:LEU:HD13	43:BU:68:LYS:HZ3	1.31	0.86
25:BA:993:G:H1'	43:BU:91:TYR:CE2	2.08	0.86
25:BA:518:G:H4'	44:BV:18:ARG:NH1	1.90	0.86
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.40	0.86
1:AA:708:C:O2'	1:AA:709:G:H5'	1.75	0.86
3:AD:76:A:C4	25:BA:2432:A:O4'	2.28	0.86
6:AF:19:GLU:HG3	6:AF:54:ARG:HE	1.37	0.86
8:AH:82:VAL:CG1	8:AH:89:ILE:HG22	2.04	0.86
10:AJ:104:LEU:CD2	10:AJ:134:ALA:HB1	2.05	0.86
10:AJ:69:VAL:HG11	10:AJ:104:LEU:CD2	2.03	0.86
11:AK:10:LEU:HD11	11:AK:85:ARG:CD	2.04	0.86
16:AP:7:VAL:HG12	31:BG:140:ILE:HG21	1.56	0.86
13:AM:65:LEU:HD12	17:AQ:56:VAL:HG13	1.57	0.86
50:B2:4:LEU:HD21	50:B2:56:VAL:HG23	1.55	0.86
25:BA:51:G:O2'	25:BA:119:A:N1	2.08	0.86
25:BA:1613:G:H3'	25:BA:1614:A:C5'	2.05	0.86
25:BA:2012:G:OP1	44:BV:98:LYS:HG3	1.74	0.86
25:BA:2073:C:H2'	25:BA:2074:U:C6	2.09	0.86
25:BA:2075:U:H2'	25:BA:2076:U:H5'	1.56	0.86
25:BA:245:G:OP1	37:BO:63:PRO:HD2	1.74	0.86
25:BA:2781:A:H5'	25:BA:2781:A:H8	1.40	0.86
25:BA:280:C:C5	25:BA:283:A:N7	2.43	0.86
25:BA:975:G:C2	25:BA:976:C:H6	1.92	0.86
28:BD:61:LEU:HD12	28:BD:86:PRO:CD	2.05	0.86
30:BF:103:LYS:HA	30:BF:106:ARG:NE	1.90	0.86
30:BF:128:ALA:HB1	30:BF:142:TRP:CH2	2.10	0.86
32:BH:40:GLU:CB	32:BH:55:PRO:HG3	2.05	0.86
42:BT:87:GLY:C	42:BT:88:ILE:HD13	1.95	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BX:14:LEU:CD2	46:BX:19:LYS:HB2	2.05	0.86
48:BZ:50:ASN:HA	48:BZ:62:LEU:HD22	1.57	0.86
1:AA:1074:G:H2'	1:AA:1075:C:O4'	1.74	0.86
1:AA:665:A:C8	1:AA:733:A:C2	2.63	0.86
1:AA:764:C:C3'	1:AA:765:G:H8	1.88	0.86
1:AA:782:A:N1	1:AA:801:U:H1'	1.91	0.86
3:AD:22:G:H2'	3:AD:23:A:C8	2.09	0.86
10:AJ:69:VAL:HG21	10:AJ:104:LEU:CD2	2.06	0.86
11:AK:64:LYS:HD3	11:AK:79:VAL:HG11	1.56	0.86
14:AN:67:ASP:N	14:AN:70:LYS:HZ2	1.72	0.86
16:AP:16:ASP:HA	16:AP:19:LEU:CG	2.02	0.86
1:AA:761:G:H1'	20:AT:104:LYS:O	1.75	0.86
21:AU:72:ARG:HA	21:AU:75:ILE:CD1	2.04	0.86
1:AA:1318:A:H4'	22:AV:10:PHE:CD2	2.10	0.86
22:AV:18:LYS:HE3	22:AV:18:LYS:HA	1.55	0.86
51:B3:5:ILE:HD13	51:B3:60:GLN:CD	1.94	0.86
25:BA:1000:A:C8	25:BA:1154:G:N2	2.44	0.86
25:BA:1475:G:H21	25:BA:1476:C:C5'	1.87	0.86
25:BA:578:A:C2	25:BA:2018:G:O4'	2.27	0.86
25:BA:2074:U:C2	25:BA:2075:U:H5	1.93	0.86
25:BA:2307:G:H3'	25:BA:2308:G:C4'	2.05	0.86
25:BA:2714:G:H8	25:BA:2714:G:H5''	1.41	0.86
25:BA:786:C:O2'	25:BA:787:U:H5'	1.74	0.86
25:BA:996:A:H4'	42:BT:93:LYS:CG	2.06	0.86
27:BC:20:TYR:O	27:BC:225:ASN:HB3	1.74	0.86
29:BE:9:VAL:CG1	29:BE:192:ASN:HD22	1.87	0.86
31:BG:105:LYS:O	31:BG:109:VAL:HG22	1.75	0.86
36:BN:12:ASP:HA	36:BN:94:ARG:HD2	1.56	0.86
25:BA:1275:A:N3	39:BQ:12:ARG:NH2	2.22	0.86
47:BY:152:ALA:HA	47:BY:155:LEU:HD13	1.55	0.86
52:B4:30:LEU:HD23	52:B4:39:MET:HB2	1.57	0.86
1:AA:1267:C:O2	1:AA:1267:C:H2'	1.73	0.86
1:AA:1313:U:H5	22:AV:4:SER:HB2	1.40	0.86
1:AA:68:G:H5'	1:AA:171:A:C1'	2.04	0.86
1:AA:678:U:H2'	1:AA:679:C:C6	2.10	0.86
5:AE:152:PHE:O	5:AE:154:LEU:N	2.08	0.86
25:BA:1264:G:H5''	25:BA:1265:A:H5''	1.57	0.86
25:BA:1464:C:H2'	25:BA:1465:G:H8	1.41	0.86
25:BA:1479:G:N2	25:BA:1515:C:C4	2.43	0.86
25:BA:1608:A:H2'	25:BA:1610:A:OP1	1.75	0.86
25:BA:2416:C:OP1	37:BO:59:LEU:HA	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:280:C:C4	25:BA:283:A:N7	2.43	0.86
25:BA:373:U:H4'	25:BA:374:A:C8	2.10	0.86
25:BA:281:G:H5'	25:BA:428:A:C8	2.10	0.86
30:BF:104:LYS:HG3	30:BF:108:LYS:HE2	1.57	0.86
37:BO:35:HIS:O	37:BO:36:LYS:NZ	2.07	0.86
37:BO:46:LYS:HD3	37:BO:50:ARG:HD3	1.55	0.86
37:BO:74:GLU:HA	37:BO:107:LYS:HD3	1.55	0.86
41:BS:34:VAL:HG11	41:BS:36:GLU:CD	1.95	0.86
47:BY:121:HIS:H	47:BY:172:ALA:HB2	1.39	0.86
47:BY:17:ALA:O	47:BY:20:ARG:HB3	1.74	0.86
47:BY:94:GLU:H	47:BY:95:PRO:HD3	1.39	0.86
33:BK:127:VAL:HG13	33:BK:140:LEU:C	1.96	0.86
25:BA:1072:C:H2'	25:BA:1093:G:C6	2.11	0.86
1:AA:160:A:C1'	1:AA:344:A:N7	2.38	0.86
1:AA:266:G:H21	1:AA:269:C:N4	1.73	0.86
1:AA:266:G:H22	1:AA:270:A:H62	1.22	0.86
1:AA:281:G:O2'	1:AA:282:A:H8	1.59	0.86
1:AA:551:U:H2'	1:AA:552:U:C6	2.09	0.86
1:AA:606:G:H22	1:AA:631:G:H2'	1.40	0.86
6:AF:151:VAL:HG23	6:AF:200:ALA:HA	1.54	0.86
11:AK:109:ILE:HG13	11:AK:111:ILE:CD1	2.06	0.86
11:AK:119:LEU:HB3	11:AK:123:GLU:OE2	1.76	0.86
11:AK:11:THR:O	11:AK:14:ARG:HD2	1.73	0.86
14:AN:104:GLN:HE22	14:AN:106:LYS:HB2	1.39	0.86
15:AO:23:LYS:O	15:AO:24:VAL:HG23	1.75	0.86
25:BA:2371:G:H4'	53:B5:45:LYS:O	1.74	0.86
56:B8:19:ARG:HH12	56:B8:22:ARG:HH11	1.23	0.86
25:BA:1154:G:P	42:BT:58:ARG:HE	1.97	0.86
25:BA:1778:U:H2'	25:BA:1779:U:C6	2.09	0.86
25:BA:2513:G:P	29:BE:120:TRP:HZ3	1.98	0.86
25:BA:2748:A:N3	32:BH:67:LEU:CD2	2.38	0.86
25:BA:411:G:H3'	25:BA:411:G:OP2	1.74	0.86
25:BA:52:A:H62	25:BA:119:A:N6	1.72	0.86
25:BA:568:U:H5'	25:BA:945:A:H62	1.40	0.86
25:BA:959:A:N6	25:BA:960:A:N6	2.23	0.86
25:BA:819:A:C8	25:BA:973:A:H2	1.93	0.86
25:BA:972:G:OP1	25:BA:974(A):C:H5'	1.75	0.86
26:BB:56:G:H4'	26:BB:57:A:H5''	1.56	0.86
28:BD:70:TRP:HA	28:BD:73:VAL:CG1	2.05	0.86
29:BE:176:ILE:CG2	29:BE:181:LEU:HB2	2.06	0.86
29:BE:198:VAL:HG12	29:BE:200:GLU:OE2	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2748:A:H1'	32:BH:67:LEU:HD22	1.55	0.86
35:BM:69:GLN:O	35:BM:70:LYS:HD3	1.75	0.86
36:BN:18:LYS:NZ	36:BN:44:LYS:HD2	1.90	0.86
42:BT:97:ASP:O	42:BT:101:ARG:HG2	1.76	0.86
45:BW:49:VAL:HG12	45:BW:88:LYS:HB2	1.57	0.86
46:BX:72:VAL:HG11	46:BX:96:ILE:HG21	1.58	0.86
1:AA:1534:A:H8	1:AA:1534:A:P	1.98	0.86
1:AA:197:A:N6	1:AA:221:C:C5'	2.38	0.86
1:AA:862:C:C1'	1:AA:874:G:H5''	2.04	0.86
7:AG:64:LEU:O	7:AG:64:LEU:HD22	1.74	0.86
10:AJ:69:VAL:CG2	10:AJ:104:LEU:HD21	2.06	0.86
14:AN:16:SER:O	14:AN:35:PRO:HG3	1.74	0.86
20:AT:45:HIS:O	20:AT:73:VAL:HG23	1.76	0.86
25:BA:1496:A:C2	25:BA:1498:C:N4	2.44	0.86
25:BA:1878:G:H2'	25:BA:1879:C:H6	1.40	0.86
25:BA:2239:G:C3'	25:BA:2240:C:H5''	2.04	0.86
25:BA:281:G:C8	25:BA:281:G:OP1	2.28	0.86
25:BA:324:A:H62	25:BA:339:U:C1'	1.86	0.86
25:BA:571:A:C4	25:BA:2030:A:N6	2.43	0.86
25:BA:977:G:C8	25:BA:987:G:N2	2.44	0.86
30:BF:139:PHE:O	30:BF:142:TRP:HB3	1.75	0.86
30:BF:35:GLU:HA	30:BF:38:ARG:HD3	1.58	0.86
32:BH:121:ILE:HG13	32:BH:133:VAL:HG23	1.56	0.86
37:BO:77:ARG:CD	37:BO:115:LEU:HD23	2.04	0.86
40:BR:33:LYS:HG2	40:BR:54:LEU:CD1	2.03	0.86
41:BS:59:THR:N	41:BS:61:PHE:CE1	2.44	0.86
47:BY:45:ASP:C	47:BY:49:ARG:HD2	1.95	0.86
1:AA:872:A:C6	1:AA:874:G:N7	2.42	0.86
1:AA:952:U:H5'	1:AA:972:C:H41	1.41	0.86
5:AE:31:TYR:CE2	5:AE:200:ILE:HG21	2.11	0.86
1:AA:491:G:OP1	7:AG:151:LYS:HE2	1.76	0.86
7:AG:74:GLN:HA	7:AG:77:ASN:ND2	1.90	0.86
7:AG:88:VAL:HG22	8:AH:97:GLY:H	1.39	0.86
16:AP:39:ILE:HD13	16:AP:56:LEU:HD13	1.56	0.86
16:AP:67:GLU:CG	16:AP:68:GLY:H	1.89	0.86
20:AT:59:ILE:HG13	20:AT:60:ILE:N	1.88	0.86
21:AU:41:LYS:O	21:AU:44:LEU:HD23	1.76	0.86
25:BA:61:G:H5'	49:B1:45:ILE:HD13	1.56	0.86
53:B5:19:ARG:NH1	53:B5:19:ARG:HG2	1.72	0.86
25:BA:1937:A:C2'	25:BA:1938:A:OP1	2.24	0.86
25:BA:2056:G:H21	52:B4:4:HIS:C	1.78	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2083:G:H2'	25:BA:2084:C:C6	2.10	0.86
25:BA:2122:U:C4'	27:BC:166:ASP:HB2	2.04	0.86
25:BA:2698:U:H2'	25:BA:2699:C:C5	2.09	0.86
25:BA:2875:C:H5''	41:BS:3:ARG:HD3	1.55	0.86
25:BA:372:G:C8	25:BA:372:G:H3'	2.10	0.86
25:BA:612:G:C4'	25:BA:616:A:N6	2.36	0.86
25:BA:775:G:N2	25:BA:788:A:P	2.48	0.86
25:BA:893:C:H2'	25:BA:894:C:C6	2.11	0.86
28:BD:159:ALA:HA	28:BD:196:VAL:HG11	1.55	0.86
28:BD:232:PRO:HG2	28:BD:247:ALA:CA	2.05	0.86
29:BE:51:PHE:HZ	29:BE:75:VAL:CG2	1.87	0.86
31:BG:52:ILE:HG22	31:BG:152:LEU:HD21	1.56	0.86
32:BH:38:SER:H	32:BH:41:MET:CE	1.87	0.86
25:BA:627:A:H5''	37:BO:75:ILE:HB	1.58	0.86
39:BQ:61:HIS:CA	39:BQ:64:ARG:HD3	2.06	0.86
41:BS:44:ASP:O	41:BS:46:GLU:N	2.08	0.86
48:BZ:21:LEU:CD1	48:BZ:41:ARG:HG2	2.04	0.86
1:AA:112:G:O2'	1:AA:113:G:H5'	1.75	0.86
2:AC:76:A:N7	25:BA:2585:U:H1'	1.91	0.86
5:AE:127:ILE:HG22	5:AE:128:GLU:HG2	1.58	0.86
6:AF:11:ARG:CD	6:AF:16:ARG:HH21	1.88	0.86
7:AG:3:ARG:HE	7:AG:71:SER:H	1.19	0.86
8:AH:106:PRO:HB3	8:AH:120:THR:HG21	1.56	0.86
11:AK:46:LYS:HE3	11:AK:64:LYS:HG3	1.58	0.86
15:AO:87:GLY:HA2	15:AO:98:TYR:HB3	1.56	0.86
17:AQ:40:CYS:N	17:AQ:43:CYS:SG	2.48	0.86
21:AU:70:ILE:HG22	21:AU:74:ARG:NE	1.90	0.86
25:BA:1214:A:H2'	25:BA:1215:G:C8	2.11	0.86
25:BA:1482:U:H2'	25:BA:1483:G:H4'	1.58	0.86
25:BA:1802:A:H62	25:BA:1817:G:H21	1.20	0.86
25:BA:1930:G:H2'	25:BA:1968:G:O6	1.75	0.86
25:BA:2333:A:H1'	25:BA:2335:A:C4	2.09	0.86
25:BA:2661:G:H2'	25:BA:2662:A:H8	1.41	0.86
25:BA:383:U:H2'	25:BA:385:C:H5	1.41	0.86
25:BA:38:A:H2'	25:BA:39:C:H6	1.38	0.86
25:BA:477:A:H2'	25:BA:478:A:H8	0.78	0.86
25:BA:827:U:H4'	25:BA:828:U:O2	1.76	0.86
28:BD:64:ILE:O	28:BD:65:ILE:HD13	1.76	0.86
29:BE:116:VAL:HG21	29:BE:138:PRO:HA	1.58	0.86
29:BE:106:GLY:CA	29:BE:196:VAL:HG22	2.05	0.86
32:BH:76:VAL:HG22	32:BH:77:LYS:H	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:74:TYR:HD2	38:BP:74:TYR:N	1.71	0.86
41:BS:2:ASN:OD1	41:BS:3:ARG:HG3	1.76	0.86
47:BY:9:TYR:HB3	47:BY:14:LYS:HG2	1.56	0.86
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.11	0.86
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.38	0.86
1:AA:1318:A:H4'	22:AV:10:PHE:HD2	1.41	0.86
1:AA:926:G:H2'	1:AA:1505:G:H21	1.41	0.86
1:AA:1514:C:H2'	1:AA:1515:C:C6	2.09	0.86
1:AA:235:C:H1'	20:AT:61:GLU:OE1	1.75	0.86
1:AA:657:G:C1'	18:AR:28:GLN:HE22	1.89	0.86
6:AF:34:LEU:HD23	6:AF:35:GLU:N	1.90	0.86
8:AH:91:LEU:HD21	8:AH:118:ILE:HG21	1.56	0.86
9:AI:33:TYR:CD1	9:AI:75:LEU:HD23	2.11	0.86
1:AA:1226:C:C6	16:AP:104:ARG:HA	2.10	0.86
17:AQ:39:LEU:HD12	17:AQ:44:LEU:HD12	1.57	0.86
49:B1:36:ILE:HG23	49:B1:37:GLY:H	1.39	0.86
50:B2:6:VAL:HB	50:B2:54:VAL:HG21	1.58	0.86
51:B3:57:GLU:HA	51:B3:61:ARG:NH1	1.91	0.86
25:BA:1448:G:H4'	25:BA:1543:A:N6	1.90	0.86
25:BA:2208:U:H1'	25:BA:2217:G:N1	1.91	0.86
25:BA:221:A:H61	25:BA:265:A:N6	1.74	0.86
25:BA:2416:C:O2'	25:BA:2417:C:H5''	1.75	0.86
25:BA:2681:C:O2'	25:BA:2682:U:C5'	2.22	0.86
25:BA:709:U:H2'	25:BA:710:G:C8	2.09	0.86
27:BC:161:ILE:O	27:BC:162:GLU:HB3	1.76	0.86
28:BD:183:ARG:HA	28:BD:268:ARG:HA	1.56	0.86
35:BM:128:HIS:O	35:BM:131:GLN:HB2	1.76	0.86
35:BM:39:ARG:HB3	35:BM:48:MET:CE	2.05	0.86
25:BA:1131:G:H21	35:BM:72:TYR:HE1	1.24	0.86
35:BM:7:LYS:CE	35:BM:39:ARG:HH12	1.89	0.86
35:BM:96:GLU:HG2	35:BM:97:ARG:H	1.40	0.86
46:BX:72:VAL:HG12	46:BX:74:PRO:CD	2.06	0.86
47:BY:129:SER:CB	47:BY:133:ILE:HG22	2.05	0.86
25:BA:1057:A:H2'	25:BA:1058:G:H8	1.40	0.86
1:AA:1202:G:C1'	17:AQ:29:ARG:HD2	2.06	0.86
1:AA:573:A:N3	1:AA:883:C:O2'	2.06	0.86
3:AD:15:G:H1	3:AD:48:C:N4	1.73	0.86
9:AI:61:LEU:HB3	9:AI:63:TYR:OH	1.75	0.86
10:AJ:66:VAL:HG12	10:AJ:70:LYS:HE2	1.56	0.86
13:AM:90:LEU:H	13:AM:91:PRO:HD2	1.39	0.86
15:AO:56:ALA:HB3	15:AO:68:ALA:O	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:79:ARG:HA	18:AR:82:ILE:HD12	1.58	0.86
19:AS:12:LYS:HZ2	19:AS:13:HIS:N	1.73	0.86
50:B2:28:LEU:HA	50:B2:33:GLN:NE2	1.89	0.86
25:BA:1312:U:C2'	25:BA:1313:U:C6	2.57	0.86
25:BA:2168:G:H2'	25:BA:2170:A:OP2	1.75	0.86
25:BA:2654:A:N3	25:BA:2656:U:C4	2.44	0.86
25:BA:2893:G:H4'	25:BA:2894:G:C1'	2.05	0.86
25:BA:307:G:H22	25:BA:310:A:C5'	1.87	0.86
25:BA:545:G:H1'	25:BA:549:G:N2	1.90	0.86
26:BB:103:U:C2'	26:BB:104:A:H5'	2.05	0.86
27:BC:89:ALA:HB1	27:BC:154:ARG:CA	2.05	0.86
29:BE:12:THR:HG23	29:BE:21:VAL:HB	1.57	0.86
30:BF:81:PRO:HG2	30:BF:82:ILE:H	1.39	0.86
25:BA:1257:C:O2'	30:BF:84:VAL:HG23	1.76	0.86
36:BN:1:MET:HG3	36:BN:2:ILE:HG12	1.54	0.86
36:BN:2:ILE:HG21	36:BN:32:TYR:HB3	1.58	0.86
37:BO:138:LEU:CD1	37:BO:145:PRO:HG3	2.04	0.86
38:BP:51:ARG:HG3	38:BP:52:VAL:N	1.91	0.86
39:BQ:32:GLY:O	39:BQ:115:GLU:HB2	1.75	0.86
40:BR:62:LYS:CB	40:BR:65:VAL:HG13	2.06	0.86
41:BS:32:TYR:HB3	41:BS:87:ASP:O	1.75	0.86
48:BZ:10:THR:O	48:BZ:11:ARG:HB3	1.75	0.86
33:BK:57:ARG:CG	33:BK:61:ARG:HH21	1.88	0.86
27:BC:68:LEU:HG	27:BC:69:GLY:H	1.39	0.86
1:AA:1200:C:H5'	1:AA:1202:G:P	2.16	0.85
1:AA:409:G:OP1	7:AG:24:GLU:HB3	1.76	0.85
1:AA:791:G:H2'	1:AA:792:A:C8	2.11	0.85
10:AJ:140:ASP:C	10:AJ:144:MET:HG3	1.97	0.85
15:AO:7:ILE:H	15:AO:7:ILE:HD13	1.36	0.85
21:AU:63:GLN:HA	21:AU:66:LEU:HD21	1.57	0.85
22:AV:40:ILE:O	22:AV:68:GLY:HA2	1.75	0.85
54:B6:43:THR:HA	54:B6:46:VAL:HB	1.56	0.85
25:BA:1992:G:N1	25:BA:1996:C:N4	2.24	0.85
25:BA:239:U:H2'	25:BA:240:G:H8	1.39	0.85
25:BA:2493:U:O4	25:BA:2494:G:C8	2.28	0.85
25:BA:270(I):G:C2	25:BA:270(J):G:H1'	2.10	0.85
25:BA:287:C:H2'	25:BA:288:C:C5	2.11	0.85
25:BA:337:C:H2'	25:BA:338:G:C5'	2.03	0.85
25:BA:603:A:N6	37:BO:104:GLY:HA2	1.91	0.85
25:BA:811:U:C5	37:BO:24:GLY:HA3	2.10	0.85
25:BA:858:U:O2'	25:BA:2268:A:H2'	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BB:74:U:H5''	26:BB:75:G:OP2	1.76	0.85
28:BD:232:PRO:HG2	28:BD:247:ALA:N	1.90	0.85
25:BA:2052:G:C8	29:BE:150:VAL:HG23	2.11	0.85
30:BF:131:GLY:C	30:BF:134:GLY:H	1.79	0.85
36:BN:9:GLU:O	36:BN:82:ASN:HA	1.76	0.85
37:BO:137:LYS:HE3	37:BO:137:LYS:HA	1.56	0.85
25:BA:2278:A:P	38:BP:14:ARG:HG3	2.15	0.85
38:BP:44:ALA:O	38:BP:47:ILE:HB	1.75	0.85
40:BR:62:LYS:C	40:BR:64:GLU:N	2.22	0.85
41:BS:73:GLU:OE1	41:BS:106:SER:HB3	1.74	0.85
42:BT:47:TYR:O	42:BT:51:LYS:HG3	1.76	0.85
43:BU:14:VAL:CG1	43:BU:15:GLU:H	1.89	0.85
33:BK:123:LEU:HD12	33:BK:144:VAL:HG13	1.58	0.85
34:BL:99:ILE:HG22	34:BL:100:THR:N	1.91	0.85
20:AT:100:LYS:C	20:AT:101:ARG:HD2	1.96	0.85
1:AA:440:A:N6	1:AA:494:U:H5	1.74	0.85
1:AA:775:G:H2'	1:AA:776:G:C8	2.09	0.85
1:AA:974:A:P	17:AQ:31:ARG:HG2	2.16	0.85
11:AK:88:LYS:HZ3	11:AK:88:LYS:H	1.16	0.85
14:AN:50:TYR:CZ	14:AN:54:ARG:HB3	2.11	0.85
18:AR:70:LEU:O	18:AR:70:LEU:HD12	1.76	0.85
21:AU:22:VAL:HG22	21:AU:55:ARG:HH12	1.38	0.85
51:B3:33:VAL:HG13	51:B3:35:VAL:HG23	1.58	0.85
53:B5:20:ASN:HD21	53:B5:43:CYS:H	1.19	0.85
25:BA:1022:G:O6	35:BM:65:LYS:NZ	2.09	0.85
25:BA:1701:A:O2'	25:BA:1702:G:H5'	1.76	0.85
25:BA:1681:G:H21	25:BA:1763:G:P	1.99	0.85
25:BA:2206:C:H5'	25:BA:2206:C:H6	1.41	0.85
25:BA:2489:G:H2'	25:BA:2490:G:C8	2.11	0.85
25:BA:2553:G:C8	25:BA:2583:G:H4'	2.10	0.85
25:BA:374:A:H3'	25:BA:375:C:C6	2.10	0.85
25:BA:5:A:H2'	25:BA:6:A:C8	2.11	0.85
27:BC:75:LEU:HD11	27:BC:99:ILE:HD13	1.58	0.85
28:BD:136:ILE:HG23	28:BD:165:ILE:HG12	1.56	0.85
32:BH:7:LEU:H	32:BH:8:PRO:HD2	1.42	0.85
33:BK:5:LEU:CB	33:BK:8:PRO:HD2	2.06	0.85
36:BN:10:VAL:HG12	36:BN:17:ARG:C	1.96	0.85
36:BN:23:ARG:HB2	36:BN:23:ARG:NH1	1.91	0.85
41:BS:80:SER:HB3	41:BS:81:PRO:HD3	1.58	0.85
22:AV:30:LEU:HD12	22:AV:59:PRO:HB3	1.58	0.85
1:AA:1321:C:C5	1:AA:1322:C:H2'	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:791:G:H22	1:AA:1498:U:P	1.99	0.85
7:AG:155:LEU:HB2	7:AG:158:ILE:CG1	2.06	0.85
12:AL:27:THR:HB	12:AL:62:TYR:HD1	1.40	0.85
15:AO:25:PRO:O	15:AO:27:LEU:N	2.10	0.85
16:AP:48:LEU:HD11	16:AP:56:LEU:HD12	1.56	0.85
51:B3:17:GLY:HA2	51:B3:33:VAL:CG1	2.07	0.85
53:B5:12:GLU:HG2	53:B5:53:LYS:O	1.76	0.85
25:BA:107:C:H5'	25:BA:293:U:O4'	1.74	0.85
25:BA:1205:U:O2'	25:BA:1206:G:N7	2.08	0.85
25:BA:1491:G:H3'	25:BA:1492:G:H4'	1.59	0.85
25:BA:1565:C:H5	28:BD:84:TYR:OH	1.57	0.85
25:BA:2233:U:H2'	25:BA:2234:G:H8	1.37	0.85
25:BA:2549:G:C2'	25:BA:2550:G:H5''	2.06	0.85
25:BA:2577:A:C2	52:B4:5:PRO:HB3	2.11	0.85
25:BA:2788:C:H4'	25:BA:2810:A:H5'	1.58	0.85
25:BA:573:G:H22	25:BA:2029:G:H21	1.19	0.85
27:BC:47:LEU:HD11	27:BC:49:ILE:HD13	1.57	0.85
28:BD:137:PRO:HG2	28:BD:140:THR:CG2	2.06	0.85
28:BD:5:LYS:HZ2	28:BD:29:PRO:CA	1.89	0.85
32:BH:35:VAL:HG13	32:BH:75:ALA:HB2	1.58	0.85
35:BM:96:GLU:HG2	35:BM:97:ARG:N	1.91	0.85
37:BO:104:GLY:O	37:BO:105:LEU:HB2	1.75	0.85
41:BS:20:PRO:HA	41:BS:22:PHE:CE2	2.10	0.85
47:BY:166:SER:OG	47:BY:167:PRO:HD2	1.75	0.85
47:BY:95:PRO:HG2	47:BY:131:ARG:CG	2.05	0.85
34:BL:75:SER:OG	34:BL:130:SER:HB2	1.75	0.85
1:AA:1145:C:H1'	1:AA:1146:A:N7	1.92	0.85
5:AE:212:GLN:NE2	5:AE:212:GLN:HA	1.90	0.85
9:AI:33:TYR:HE2	9:AI:74:ASP:HB2	1.40	0.85
1:AA:1367:C:P	12:AL:115:GLY:HA2	2.17	0.85
15:AO:53:ARG:HB3	15:AO:53:ARG:HH11	1.41	0.85
16:AP:59:TYR:CE2	16:AP:60:VAL:HG23	2.11	0.85
19:AS:72:ARG:HH11	19:AS:73:LEU:HB2	1.39	0.85
20:AT:11:VAL:O	20:AT:12:SER:HB3	1.77	0.85
25:BA:1697:G:OP2	25:BA:1698:A:H3'	1.76	0.85
25:BA:1780:A:H4'	25:BA:1780:A:OP1	1.77	0.85
25:BA:1939:U:O4	25:BA:1967:C:H1'	1.77	0.85
25:BA:2132:U:H3'	25:BA:2133:G:C5'	2.05	0.85
25:BA:2216:G:C2'	25:BA:2217:G:H5'	2.06	0.85
25:BA:648:G:H2'	25:BA:649:G:H8	1.41	0.85
25:BA:966:G:C1'	25:BA:2267:A:H61	1.88	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:7:LYS:HG2	28:BD:25:THR:CG2	2.03	0.85
31:BG:36:LYS:NZ	31:BG:38:VAL:HG13	1.90	0.85
37:BO:45:LEU:HD13	55:B7:59:LYS:CE	2.06	0.85
39:BQ:22:ARG:HG2	39:BQ:26:LYS:HE3	1.57	0.85
40:BR:74:ALA:HB1	40:BR:108:GLY:CA	2.06	0.85
40:BR:26:LEU:HD21	40:BR:37:ALA:CB	2.02	0.85
44:BV:64:MET:CG	44:BV:109:GLU:HG3	2.06	0.85
45:BW:7:VAL:HG21	49:B1:31:ARG:HH22	1.40	0.85
46:BX:14:LEU:HB2	46:BX:20:TYR:CA	2.06	0.85
48:BZ:36:ILE:CD1	48:BZ:58:THR:HG22	2.06	0.85
33:BK:115:ALA:HB2	33:BK:129:THR:O	1.75	0.85
47:BY:176:PRO:HB2	47:BY:179:ASP:CA	2.04	0.85
25:BA:2185:C:H2'	25:BA:2186:G:H8	1.40	0.85
1:AA:607:A:H2'	1:AA:608:A:O4'	1.77	0.85
1:AA:754:C:H4'	18:AR:72:ARG:HH22	1.39	0.85
2:AC:60:U:H2'	2:AC:60:U:O2	1.74	0.85
6:AF:47:LEU:CD1	6:AF:83:ARG:HH21	1.88	0.85
11:AK:36:LEU:HD21	11:AK:59:LEU:HD13	1.58	0.85
11:AK:6:ILE:HD12	11:AK:85:ARG:NH1	1.90	0.85
12:AL:117:HIS:O	12:AL:119:ALA:N	2.10	0.85
18:AR:80:ALA:O	18:AR:83:GLU:HB3	1.76	0.85
53:B5:7:ILE:HG22	53:B5:8:LYS:N	1.91	0.85
25:BA:469:G:N2	54:B6:40:TRP:HZ2	1.75	0.85
25:BA:1944:U:C1'	25:BA:1955:U:H1'	2.06	0.85
25:BA:1996:C:H5''	25:BA:1996:C:C6	2.10	0.85
25:BA:2468:G:N2	25:BA:2481:G:H2'	1.90	0.85
25:BA:26:G:H1	25:BA:27:G:H21	1.19	0.85
25:BA:270(O):U:H5''	25:BA:270(P):C:C5	2.10	0.85
25:BA:2791:C:H5	25:BA:2893:G:N7	1.74	0.85
25:BA:604:G:C6	25:BA:605:C:N4	2.45	0.85
25:BA:775:G:C2	25:BA:787:U:H2'	2.11	0.85
25:BA:789:A:H4'	25:BA:790:C:OP1	1.76	0.85
25:BA:811:U:H4'	25:BA:1251:C:O2'	1.77	0.85
25:BA:820:A:H2'	25:BA:821:A:C5'	2.00	0.85
25:BA:944:G:O6	37:BO:35:HIS:CD2	2.29	0.85
25:BA:988:A:OP1	50:B2:12:PRO:HD2	1.77	0.85
27:BC:214:VAL:CG2	27:BC:224:ILE:HD13	2.06	0.85
28:BD:217:ARG:HG3	28:BD:218:ARG:H	1.38	0.85
28:BD:257:LEU:O	28:BD:261:LYS:NZ	2.09	0.85
30:BF:37:VAL:HA	30:BF:184:TYR:CZ	2.11	0.85
38:BP:59:ARG:C	38:BP:60:ARG:HD2	1.97	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:88:ILE:HG22	43:BU:55:ALA:HB3	1.56	0.85
43:BU:62:LEU:HD13	43:BU:98:GLU:N	1.91	0.85
34:BL:78:ILE:HD13	34:BL:131:ALA:HB2	1.58	0.85
1:AA:1028:C:H2'	1:AA:1028(A):C:H6	1.42	0.85
1:AA:1373:G:H4'	10:AJ:34:GLY:O	1.77	0.85
1:AA:453:A:H4'	19:AS:72:ARG:HG3	1.58	0.85
11:AK:100:ILE:HD12	11:AK:100:ILE:H	1.42	0.85
8:AH:78:HIS:CB	11:AK:107:LEU:HD21	2.06	0.85
15:AO:27:LEU:HD21	15:AO:61:THR:O	1.76	0.85
15:AO:43:VAL:HG23	15:AO:55:VAL:CG2	2.05	0.85
49:B1:19:LEU:HD13	49:B1:20:VAL:N	1.91	0.85
51:B3:5:ILE:HD13	51:B3:60:GLN:OE1	1.77	0.85
52:B4:10:LYS:O	52:B4:12:SER:N	2.10	0.85
25:BA:2884:U:H3	52:B4:52:TYR:HD1	1.19	0.85
25:BA:1899:G:O2'	25:BA:1900:A:H5''	1.76	0.85
25:BA:1913:A:C8	25:BA:1918:A:N6	2.45	0.85
25:BA:624:C:H5'	25:BA:625:G:OP2	1.76	0.85
25:BA:662:G:H4'	37:BO:18:ARG:H	1.39	0.85
25:BA:729:G:C4	25:BA:730:C:H1'	2.12	0.85
27:BC:162:GLU:HG3	27:BC:163:PHE:H	1.42	0.85
27:BC:190:ARG:CG	27:BC:190:ARG:HH11	1.89	0.85
27:BC:21:THR:HG22	27:BC:225:ASN:HD22	1.40	0.85
25:BA:2127:G:H5'	27:BC:36:LYS:HB3	1.56	0.85
28:BD:244:ARG:CB	28:BD:252:TRP:CD1	2.59	0.85
29:BE:92:THR:C	29:BE:94:GLU:H	1.77	0.85
31:BG:169:ALA:O	31:BG:172:LEU:HB3	1.76	0.85
32:BH:6:ARG:NH1	32:BH:6:ARG:HA	1.91	0.85
36:BN:76:ALA:HB1	36:BN:78:ARG:NH2	1.92	0.85
38:BP:67:ARG:HG3	38:BP:68:ILE:N	1.91	0.85
39:BQ:17:ARG:HH11	39:BQ:17:ARG:HB2	1.41	0.85
39:BQ:59:ASP:H	39:BQ:80:PHE:HE2	1.22	0.85
40:BR:95:HIS:N	40:BR:99:LYS:HB2	1.91	0.85
41:BS:30:VAL:CG2	41:BS:90:GLN:HA	2.06	0.85
42:BT:46:ALA:O	42:BT:49:HIS:HB2	1.76	0.85
42:BT:79:PHE:HD1	42:BT:79:PHE:O	1.58	0.85
47:BY:10:ARG:HD3	47:BY:36:LYS:CD	2.06	0.85
47:BY:98:MET:CG	47:BY:133:ILE:HG21	2.06	0.85
25:BA:1083:U:H2'	25:BA:1084:A:H5''	1.58	0.85
1:AA:38:G:H22	1:AA:397:A:C5'	1.90	0.85
6:AF:189:ALA:HB3	6:AF:196:LEU:H	1.41	0.85
7:AG:190:ASP:O	7:AG:194:LEU:HD23	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:14:LEU:HD11	9:AI:19:LEU:N	1.91	0.85
9:AI:52:ILE:HD13	9:AI:87:ARG:NH2	1.92	0.85
9:AI:2:ARG:O	9:AI:67:MET:HE3	1.75	0.85
11:AK:109:ILE:CD1	11:AK:137:VAL:HB	2.07	0.85
1:AA:684:A:C4'	14:AN:12:ARG:HH22	1.90	0.85
15:AO:117:ARG:NH2	15:AO:124:LYS:HG2	1.91	0.85
16:AP:4:ILE:HG22	16:AP:57:ARG:HG3	1.57	0.85
20:AT:9:VAL:HG13	20:AT:11:VAL:HG22	1.58	0.85
49:B1:20:VAL:HG21	49:B1:56:LEU:HD11	1.58	0.85
53:B5:27:LYS:HG2	53:B5:29:ASN:ND2	1.92	0.85
55:B7:56:GLU:CD	55:B7:56:GLU:H	1.79	0.85
25:BA:1530:G:H2'	25:BA:1531:C:C6	2.12	0.85
25:BA:1569:A:C2	25:BA:1570:A:C5	2.65	0.85
25:BA:1581:G:O2'	25:BA:1582:C:H5'	1.76	0.85
25:BA:282:A:H2'	25:BA:284:U:OP1	1.76	0.85
25:BA:2893:G:H4'	25:BA:2894:G:H1'	1.59	0.85
25:BA:621:A:C8	25:BA:621:A:C3'	2.51	0.85
25:BA:64:A:O2'	25:BA:65:C:H5'	1.75	0.85
25:BA:685:A:O4'	25:BA:774:A:N6	2.08	0.85
25:BA:709:U:H2'	25:BA:710:G:H8	1.40	0.85
25:BA:974:G:H3'	25:BA:974(A):C:C5'	2.06	0.85
28:BD:237:GLU:HB3	28:BD:239:ARG:CD	2.07	0.85
29:BE:30:PRO:HB2	29:BE:48:GLN:CB	2.06	0.85
30:BF:97:TYR:HD2	30:BF:97:TYR:N	1.72	0.85
32:BH:52:VAL:HG11	32:BH:69:ARG:CB	2.06	0.85
25:BA:1006:C:H1'	35:BM:106:MET:SD	2.17	0.85
37:BO:76:LYS:NZ	37:BO:96:THR:HG21	1.92	0.85
29:BE:183:LEU:HD21	41:BS:10:VAL:CG1	2.06	0.85
41:BS:30:VAL:CG2	41:BS:32:TYR:HE2	1.89	0.85
42:BT:101:ARG:NH1	42:BT:101:ARG:HB3	1.91	0.85
43:BU:12:TYR:HE1	43:BU:14:VAL:HB	1.42	0.85
45:BW:50:LYS:N	45:BW:50:LYS:HD3	1.91	0.85
47:BY:78:LYS:HE2	47:BY:84:GLU:OE1	1.77	0.85
1:AA:1184:G:H2'	1:AA:1185:G:H8	1.42	0.85
1:AA:173:U:N1	1:AA:197:A:C2	2.45	0.85
1:AA:173:U:O4'	1:AA:197:A:H1'	1.76	0.85
1:AA:817:C:N4	1:AA:819:A:N3	2.24	0.85
6:AF:120:VAL:HG21	6:AF:137:ALA:HB2	1.57	0.85
1:AA:9:G:OP2	8:AH:121:LYS:HD2	1.75	0.85
10:AJ:132:GLY:O	10:AJ:136:LYS:HB2	1.75	0.85
10:AJ:63:LYS:N	10:AJ:63:LYS:HE2	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:95:VAL:HG22	11:AK:133:LEU:HD21	1.58	0.85
12:AL:124:GLN:HG3	12:AL:125:TYR:N	1.90	0.85
12:AL:19:LEU:HD23	12:AL:60:ASP:O	1.77	0.85
15:AO:30:ALA:HB1	15:AO:31:PRO:HD2	1.59	0.85
19:AS:6:LEU:HA	19:AS:18:ARG:O	1.76	0.85
20:AT:31:LEU:HD12	20:AT:31:LEU:O	1.77	0.85
55:B7:50:LEU:CD2	55:B7:51:ALA:H	1.90	0.85
25:BA:1635:G:C8	25:BA:1635:G:O5'	2.30	0.85
25:BA:1976:U:O2'	25:BA:1977:A:C8	2.29	0.85
25:BA:2053:G:H5'	29:BE:144:ARG:HA	1.56	0.85
25:BA:2213:U:H5''	25:BA:2213:U:O2	1.76	0.85
25:BA:2351:G:HO2'	25:BA:2352:A:H8	1.25	0.85
25:BA:2453:A:H2	25:BA:2504:U:O2	1.60	0.85
25:BA:2662:A:H2'	25:BA:2663:G:C5'	2.05	0.85
25:BA:261:G:C4'	25:BA:608:A:H2	1.90	0.85
25:BA:625:G:O2'	25:BA:656:G:H4'	1.76	0.85
25:BA:863:A:H2'	25:BA:864:G:C8	2.12	0.85
27:BC:186:ALA:HB1	27:BC:190:ARG:NH2	1.91	0.85
28:BD:246:PRO:HG3	28:BD:252:TRP:HA	1.58	0.85
30:BF:66:PRO:C	30:BF:68:LYS:H	1.77	0.85
32:BH:121:ILE:HD11	32:BH:123:PHE:HE1	1.40	0.85
32:BH:153:LYS:O	32:BH:161:GLY:HA3	1.75	0.85
32:BH:89:ILE:HD12	32:BH:90:LYS:H	1.41	0.85
36:BN:15:GLY:N	36:BN:52:VAL:HG11	1.91	0.85
37:BO:65:ARG:NH1	37:BO:67:MET:H	1.75	0.85
38:BP:14:ARG:HE	38:BP:14:ARG:CA	1.85	0.85
39:BQ:96:ARG:O	39:BQ:114:VAL:HG13	1.77	0.85
43:BU:40:LEU:HD23	43:BU:51:VAL:HG12	1.57	0.85
44:BV:3:ALA:HB1	44:BV:54:ALA:O	1.77	0.85
46:BX:54:LYS:O	46:BX:56:PRO:HD3	1.76	0.85
47:BY:111:VAL:HG22	47:BY:117:LEU:HD23	1.57	0.85
33:BK:81:VAL:CG2	33:BK:144:VAL:HG22	2.06	0.85
25:BA:1095:A:H2'	25:BA:1096:A:O4'	1.75	0.85
34:BL:128:ALA:HB1	34:BL:132:ARG:NH2	1.91	0.85
7:AG:112:VAL:HG23	7:AG:161:ASN:HD21	1.42	0.85
7:AG:72:GLU:O	7:AG:75:PHE:HB3	1.77	0.85
10:AJ:32:ARG:O	10:AJ:33:ASP:HB2	1.77	0.85
25:BA:1268:A:H2'	25:BA:1269:A:H8	1.41	0.85
25:BA:1345:C:H4'	25:BA:1396:U:O4	1.77	0.85
25:BA:1388:G:H2'	25:BA:1389:G:H8	1.42	0.85
25:BA:2074:U:H2'	25:BA:2597:G:H21	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2802:G:H2'	25:BA:2803:C:C6	2.11	0.85
25:BA:621:A:H2'	25:BA:622:G:C5'	2.06	0.85
28:BD:244:ARG:HB3	28:BD:252:TRP:HD1	1.38	0.85
29:BE:143:ASN:HD22	29:BE:143:ASN:N	1.74	0.85
30:BF:194:MET:HE2	30:BF:195:ASP:N	1.91	0.85
31:BG:111:LEU:HD11	31:BG:180:PHE:CZ	2.11	0.85
31:BG:78:SER:HB3	31:BG:82:LEU:CG	2.06	0.85
35:BM:78:TYR:O	35:BM:79:PRO:C	2.12	0.85
36:BN:72:PRO:HB2	41:BS:84:GLN:HE21	1.36	0.85
37:BO:55:ARG:HH21	37:BO:55:ARG:CB	1.89	0.85
25:BA:954:G:H5''	38:BP:17:LEU:CD2	2.07	0.85
38:BP:34:LEU:HD21	38:BP:118:LEU:HD22	1.56	0.85
41:BS:37:GLY:HA3	41:BS:42:ILE:O	1.76	0.85
42:BT:93:LYS:HG2	43:BU:10:LYS:HZ1	1.42	0.85
43:BU:57:VAL:HG12	43:BU:58:VAL:N	1.90	0.85
34:BL:122:ALA:O	34:BL:126:MET:HG3	1.77	0.85
34:BL:7:VAL:HA	34:BL:58:THR:HB	1.57	0.85
25:BA:2212:A:H2'	25:BA:2212:A:N3	1.91	0.85
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.11	0.85
1:AA:110:C:H2'	1:AA:111:G:O5'	1.75	0.85
1:AA:1259:C:O2	1:AA:1283:G:H1'	1.76	0.85
1:AA:1433:A:O2'	1:AA:1434:A:H5'	1.77	0.85
1:AA:153:C:H2'	1:AA:154:C:H6	1.40	0.85
1:AA:792:A:H2'	1:AA:794:A:H62	1.41	0.85
5:AE:136:VAL:O	5:AE:139:LYS:HG2	1.76	0.85
5:AE:15:VAL:HG22	5:AE:209:ARG:NH1	1.91	0.85
6:AF:11:ARG:NH1	6:AF:15:THR:HG23	1.91	0.85
8:AH:108:ALA:O	8:AH:112:LEU:HB2	1.77	0.85
9:AI:23:LYS:CA	9:AI:26:ILE:HD12	2.02	0.85
9:AI:46:ARG:HG2	9:AI:47:ARG:N	1.89	0.85
1:AA:582:U:H5'	18:AR:64:ARG:HH21	1.38	0.85
23:AW:64:ASP:O	23:AW:67:ALA:HB3	1.77	0.85
25:BA:1365:A:H2'	25:BA:1366:A:H8	1.40	0.85
25:BA:1949:G:H2'	25:BA:1950:G:O4'	1.77	0.85
25:BA:265:A:C8	25:BA:265:A:C3'	2.59	0.85
25:BA:2840:C:C5'	39:BQ:53:HIS:HD2	1.88	0.85
25:BA:401:A:N6	25:BA:423:A:N1	2.25	0.85
25:BA:650:C:H42	25:BA:651:G:N2	1.74	0.85
27:BC:108:MET:HE3	27:BC:136:LEU:HD13	1.59	0.85
28:BD:33:LEU:HD23	28:BD:33:LEU:H	1.41	0.85
29:BE:101:ARG:CD	29:BE:169:ASN:HD21	1.87	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:5:LEU:HD13	29:BE:197:ILE:CA	2.06	0.85
37:BO:124:LYS:NZ	37:BO:141:ALA:HB3	1.92	0.85
40:BR:23:ARG:NE	40:BR:42:ASP:HB3	1.91	0.85
40:BR:69:VAL:O	40:BR:73:LEU:HD13	1.77	0.85
44:BV:16:LYS:CD	44:BV:16:LYS:H	1.90	0.85
44:BV:91:GLY:O	44:BV:92:ARG:O	1.94	0.85
46:BX:60:PHE:HE2	46:BX:62:GLU:HB2	1.42	0.85
47:BY:39:VAL:HG13	47:BY:44:PHE:CG	2.12	0.85
34:BL:92:GLY:O	34:BL:95:LYS:HG3	1.75	0.85
1:AA:218:C:H5'	1:AA:466:C:N4	1.92	0.85
1:AA:753:A:H5'	1:AA:754:C:C6	2.11	0.84
5:AE:23:ARG:HD3	5:AE:24:TRP:H	1.41	0.84
7:AG:61:LYS:HG3	7:AG:207:TYR:CE1	2.12	0.84
8:AH:12:LEU:HD13	8:AH:13:ILE:N	1.92	0.84
9:AI:14:LEU:HD13	9:AI:18:GLN:HB3	1.58	0.84
11:AK:22:GLU:HA	11:AK:63:LEU:HD22	1.58	0.84
15:AO:66:VAL:HG12	15:AO:67:THR:H	1.41	0.84
18:AR:39:LEU:CD1	18:AR:56:LEU:HB2	2.07	0.84
21:AU:56:THR:O	21:AU:58:LEU:HG	1.76	0.84
25:BA:2072:G:H2'	25:BA:2073:C:H6	1.42	0.84
25:BA:2686:G:C4	25:BA:2687:U:H6	1.95	0.84
25:BA:2846:G:H5'	41:BS:54:ARG:HH22	1.40	0.84
25:BA:714:U:C2'	25:BA:715:G:N7	2.38	0.84
25:BA:953:A:H2'	25:BA:954:G:H5'	1.59	0.84
27:BC:59:ARG:HD3	27:BC:164:ARG:CG	2.07	0.84
28:BD:156:ALA:O	28:BD:158:ALA:N	2.10	0.84
25:BA:1799:G:H8	28:BD:268:ARG:NH1	1.69	0.84
29:BE:141:ILE:HD13	29:BE:150:VAL:CG2	2.06	0.84
29:BE:4:ILE:HD12	29:BE:5:LEU:N	1.92	0.84
35:BM:10:GLU:O	35:BM:12:ARG:NH2	2.09	0.84
36:BN:97:ARG:NH1	36:BN:98:VAL:C	2.30	0.84
37:BO:76:LYS:HD2	37:BO:112:LEU:HB3	1.57	0.84
41:BS:28:VAL:HG22	41:BS:94:ALA:N	1.90	0.84
25:BA:997:G:OP1	42:BT:92:ARG:HD3	1.75	0.84
43:BU:66:ARG:NE	43:BU:95:LEU:HD12	1.92	0.84
34:BL:10:LEU:HD12	34:BL:12:LEU:CD1	2.01	0.84
25:BA:1589:C:H2'	25:BA:1590:U:O4'	1.77	0.84
1:AA:1396:A:O2'	1:AA:1397:C:OP2	1.94	0.84
1:AA:1394:A:N7	1:AA:1501:C:C1'	2.39	0.84
1:AA:579:G:H2'	1:AA:580:U:O4'	1.77	0.84
1:AA:818:G:O2'	1:AA:819:A:OP1	1.95	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:15:G:N2	2:AC:59:A:N1	2.25	0.84
5:AE:182:ILE:HD13	5:AE:182:ILE:H	1.41	0.84
6:AF:46:GLU:C	6:AF:47:LEU:HD22	1.97	0.84
7:AG:90:GLY:HA3	7:AG:200:GLU:OE2	1.77	0.84
9:AI:8:ILE:HG23	9:AI:88:VAL:HG22	1.57	0.84
21:AU:47:THR:HB	21:AU:49:LYS:NZ	1.92	0.84
22:AV:5:LEU:HD12	22:AV:9:VAL:HG13	1.58	0.84
49:B1:50:ARG:O	49:B1:53:ALA:HB3	1.77	0.84
54:B6:20:ALA:HA	54:B6:23:ARG:NH2	1.91	0.84
25:BA:13:A:N6	25:BA:525:U:N1	2.25	0.84
25:BA:1451:C:H2'	25:BA:1457:A:N6	1.91	0.84
25:BA:1456:G:H1	25:BA:2703:C:N4	1.75	0.84
25:BA:1469:A:N6	25:BA:1522:G:H1	1.75	0.84
25:BA:1541:U:O2	25:BA:1541:U:H2'	1.77	0.84
25:BA:1983:C:O2'	25:BA:1984:G:H5'	1.75	0.84
25:BA:2097:C:C2'	25:BA:2098:U:H5'	2.07	0.84
25:BA:2208:U:O2'	25:BA:2217:G:N2	2.11	0.84
25:BA:271(B):G:H4'	25:BA:271(C):U:OP2	1.73	0.84
25:BA:2820:A:O2'	39:BQ:4:LEU:HB3	1.75	0.84
25:BA:2828:C:C2	25:BA:2829:C:C5	2.65	0.84
25:BA:574:C:H41	25:BA:2054:A:H5''	1.40	0.84
25:BA:919:G:N2	25:BA:2268:A:H5''	1.92	0.84
27:BC:161:ILE:HG12	27:BC:162:GLU:H	1.41	0.84
25:BA:1818:U:C4	28:BD:156:ALA:HB3	2.12	0.84
28:BD:182:LEU:HG	28:BD:270:ILE:HG13	1.57	0.84
29:BE:197:ILE:CB	29:BE:199:ARG:HH21	1.89	0.84
29:BE:36:ARG:HD3	29:BE:41:LYS:NZ	1.91	0.84
38:BP:16:ARG:NH1	38:BP:72:LYS:HA	1.93	0.84
38:BP:75:THR:HG22	38:BP:77:LYS:H	1.40	0.84
43:BU:3:ALA:CA	43:BU:44:LYS:HZ1	1.88	0.84
25:BA:844:C:OP2	25:BA:845:G:N7	2.11	0.84
1:AA:1534:A:OP2	1:AA:1534:A:O4'	1.95	0.84
1:AA:129(A):G:C6	1:AA:188:U:H4'	2.12	0.84
1:AA:633:G:H2'	1:AA:634:C:C6	2.12	0.84
1:AA:923:A:H2'	1:AA:924:C:C6	2.12	0.84
7:AG:16:GLY:O	7:AG:18:LYS:N	2.11	0.84
12:AL:37:PHE:CE1	12:AL:74:ILE:HG23	2.11	0.84
14:AN:23:ALA:HB2	14:AN:28:THR:HG23	1.58	0.84
19:AS:67:THR:HB	19:AS:70:ALA:CB	2.06	0.84
45:BW:7:VAL:HG23	49:B1:28:MET:HG2	1.58	0.84
25:BA:1183:G:H1'	25:BA:1184:G:C8	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1491:G:N2	25:BA:1493:C:H41	1.74	0.84
25:BA:1609:A:H62	25:BA:1616:A:H2	1.25	0.84
25:BA:221:A:H4'	25:BA:222:A:C5'	1.99	0.84
25:BA:2432:A:H2	51:B3:30:GLU:HA	1.38	0.84
25:BA:2447:G:H1	25:BA:2452:C:H41	1.23	0.84
25:BA:273(C):C:H2'	25:BA:273(D):C:C6	2.11	0.84
25:BA:904:C:H2'	25:BA:905:U:H6	1.42	0.84
28:BD:13:ARG:HH11	28:BD:22:SER:CB	1.88	0.84
28:BD:198:ASN:HD21	28:BD:201:HIS:CB	1.90	0.84
29:BE:107:THR:O	29:BE:190:GLY:HA3	1.76	0.84
32:BH:136:ILE:HG12	32:BH:137:ASP:N	1.93	0.84
32:BH:76:VAL:CG2	32:BH:77:LYS:N	2.40	0.84
36:BN:15:GLY:O	36:BN:47:ILE:HA	1.77	0.84
37:BO:7:ARG:N	37:BO:7:ARG:HD2	1.92	0.84
37:BO:84:ASN:O	37:BO:85:LEU:HG	1.76	0.84
38:BP:25:ASP:HB2	38:BP:102:VAL:HG12	1.57	0.84
41:BS:23:ARG:HH12	41:BS:89:VAL:C	1.81	0.84
42:BT:114:LYS:HG2	42:BT:115:ALA:N	1.91	0.84
45:BW:5:TYR:HD2	49:B1:24:LYS:NZ	1.76	0.84
45:BW:27:THR:HB	45:BW:80:ILE:HD12	1.57	0.84
46:BX:22:GLY:N	46:BX:73:ARG:HH12	1.74	0.84
1:AA:727:G:H3'	1:AA:727:G:H8	1.40	0.84
1:AA:950:U:H5''	16:AP:102:ARG:NH2	1.92	0.84
6:AF:153:VAL:CG2	6:AF:166:GLU:HB3	2.07	0.84
7:AG:30:LYS:HZ3	7:AG:35:ARG:HD2	1.42	0.84
8:AH:147:ASP:O	8:AH:150:ARG:HB2	1.78	0.84
12:AL:5:TYR:OH	12:AL:16:ARG:HG3	1.76	0.84
14:AN:40:ILE:N	14:AN:40:ILE:HD13	1.92	0.84
14:AN:15:ALA:HA	14:AN:77:MET:HA	1.58	0.84
15:AO:43:VAL:HG12	15:AO:44:THR:N	1.91	0.84
16:AP:58:GLU:HA	16:AP:61:GLU:HB2	1.58	0.84
20:AT:60:ILE:HG12	20:AT:61:GLU:O	1.77	0.84
52:B4:36:CYS:HB3	52:B4:37:LYS:HD2	1.57	0.84
53:B5:19:ARG:CG	53:B5:19:ARG:HH11	1.88	0.84
25:BA:242:G:H5''	55:B7:4:MET:SD	2.17	0.84
25:BA:1012:U:C4	25:BA:1142(A):A:H1'	2.11	0.84
25:BA:1625:C:O2	25:BA:1626:G:H1'	1.78	0.84
25:BA:1657:C:H2'	25:BA:1658:C:H6	1.40	0.84
25:BA:1802:A:N6	25:BA:1817:G:H21	1.75	0.84
25:BA:292:C:C2'	25:BA:293:U:H3	1.89	0.84
25:BA:49:A:H5'	25:BA:50:U:OP1	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:71:A:H5''	25:BA:73:A:C8	2.12	0.84
25:BA:816:C:O2'	25:BA:817:C:H5'	1.76	0.84
28:BD:146:GLU:HG2	28:BD:154:LYS:HE3	1.59	0.84
28:BD:168:ARG:HG2	28:BD:173:VAL:HG13	1.60	0.84
28:BD:106:ILE:CD1	28:BD:192:THR:HG21	2.07	0.84
25:BA:781:A:H1'	28:BD:222:ARG:NH1	1.93	0.84
28:BD:27:THR:HG22	28:BD:29:PRO:HD3	1.60	0.84
29:BE:114:ALA:CB	29:BE:118:LYS:HB3	2.08	0.84
32:BH:12:PRO:O	32:BH:13:LYS:HG3	1.75	0.84
39:BQ:90:ARG:HB3	39:BQ:94:TYR:CE2	2.12	0.84
40:BR:49:VAL:HG13	40:BR:76:LYS:HZ1	1.43	0.84
34:BL:68:VAL:CG1	34:BL:70:LYS:HE3	2.05	0.84
1:AA:900:A:N7	1:AA:901:A:N6	2.25	0.84
1:AA:888:G:H21	1:AA:909:A:H62	1.21	0.84
1:AA:920:U:H2'	1:AA:921:U:C6	2.12	0.84
12:AL:106:ALA:O	12:AL:107:ARG:HG3	1.78	0.84
22:AV:36:ARG:HB2	22:AV:71:LEU:HB3	1.58	0.84
25:BA:1504:C:H2'	25:BA:1505:C:C6	2.12	0.84
25:BA:1511:A:C2'	25:BA:1512:G:H5''	2.07	0.84
25:BA:1563:G:O2'	25:BA:1564:C:H5'	1.77	0.84
25:BA:2206:C:O2'	25:BA:2207:C:H5'	1.77	0.84
25:BA:2417:C:H2'	25:BA:2418:A:C8	2.12	0.84
25:BA:775:G:H2'	25:BA:794:G:C5	2.11	0.84
25:BA:809:G:C6	25:BA:810:U:C5	2.65	0.84
25:BA:918:A:C8	26:BB:80:U:H4'	2.12	0.84
30:BF:65:TRP:CZ2	30:BF:73:ALA:HB3	2.13	0.84
31:BG:22:ARG:HG3	31:BG:23:PHE:N	1.91	0.84
36:BN:108:GLU:HB3	36:BN:111:PHE:HE2	1.41	0.84
38:BP:67:ARG:NH1	38:BP:103:MET:HB3	1.92	0.84
41:BS:30:VAL:HG13	41:BS:32:TYR:OH	1.78	0.84
41:BS:87:ASP:C	41:BS:88:ILE:HD12	1.98	0.84
44:BV:42:ARG:NH2	44:BV:42:ARG:HB2	1.92	0.84
47:BY:29:TYR:CE1	47:BY:34:ASN:HB2	2.12	0.84
1:AA:1405:G:C2	1:AA:1406:U:C5	2.65	0.84
1:AA:476:G:O2'	1:AA:477:G:H5'	1.78	0.84
1:AA:778:G:H2'	1:AA:779:C:C6	2.12	0.84
1:AA:940:C:H2'	1:AA:941:G:H8	1.40	0.84
3:AD:23:A:H2'	3:AD:24:G:C8	2.12	0.84
5:AE:115:LEU:HB2	5:AE:145:LEU:HG	1.59	0.84
5:AE:95:GLN:HE21	5:AE:148:TYR:CB	1.90	0.84
5:AE:115:LEU:HD23	5:AE:149:LEU:HD22	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:78:GLN:HG3	11:AK:81:HIS:HA	1.57	0.84
16:AP:71:ARG:HB3	16:AP:71:ARG:NH1	1.92	0.84
20:AT:59:ILE:CG1	20:AT:71:PHE:HB3	2.07	0.84
53:B5:30:THR:HB	53:B5:31:PRO:HD3	1.58	0.84
55:B7:26:LYS:HB2	55:B7:44:LYS:NZ	1.92	0.84
25:BA:1419:A:H3'	25:BA:1420:U:C2	2.12	0.84
25:BA:1779:U:O5'	25:BA:1779:U:C6	2.31	0.84
25:BA:357:A:H2'	25:BA:358:U:H6	1.43	0.84
25:BA:580:C:H2'	25:BA:581:C:H6	1.36	0.84
28:BD:34:VAL:N	28:BD:104:TYR:OH	2.10	0.84
29:BE:26:ILE:HB	29:BE:181:LEU:HD23	1.57	0.84
30:BF:188:ARG:HH21	30:BF:188:ARG:CB	1.90	0.84
32:BH:105:LEU:HD11	32:BH:148:ILE:HD11	1.57	0.84
25:BA:2880:C:H4'	39:BQ:90:ARG:HG2	1.58	0.84
41:BS:70:VAL:CG2	41:BS:74:ARG:HD3	2.08	0.84
22:AV:32:LYS:CA	22:AV:50:ALA:HB3	2.07	0.84
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.43	0.84
5:AE:184:VAL:HB	5:AE:198:ASP:OD1	1.77	0.84
7:AG:96:LEU:HD23	7:AG:139:ARG:HH22	1.41	0.84
7:AG:173:TRP:CE2	7:AG:189:PRO:HB3	2.12	0.84
7:AG:180:GLY:HA3	7:AG:182:LYS:NZ	1.93	0.84
10:AJ:86:GLN:HB2	10:AJ:148:ASN:CG	1.98	0.84
11:AK:104:ARG:O	11:AK:107:LEU:HD23	1.78	0.84
16:AP:77:ASN:O	16:AP:80:ARG:HG3	1.77	0.84
17:AQ:9:LYS:HZ3	17:AQ:12:ARG:HH21	1.21	0.84
20:AT:31:LEU:HG	20:AT:32:TYR:CD2	2.13	0.84
51:B3:58:ARG:HB3	51:B3:62:ARG:NH2	1.92	0.84
25:BA:2886:G:O2'	52:B4:31:VAL:HB	1.78	0.84
37:BO:45:LEU:HD22	55:B7:59:LYS:HD2	1.59	0.84
25:BA:120:U:H1'	25:BA:149:A:C4	2.13	0.84
25:BA:1558:A:C2	25:BA:1560:G:C1'	2.57	0.84
25:BA:1789:A:H4'	28:BD:222:ARG:NE	1.92	0.84
25:BA:1937:A:N6	25:BA:1939:U:C5	2.46	0.84
25:BA:2225:A:H5'	25:BA:2226:C:O4'	1.78	0.84
25:BA:2649:U:H2'	25:BA:2650:U:C6	2.12	0.84
25:BA:2781:A:H2'	25:BA:2782:G:C2'	2.07	0.84
25:BA:640:C:H2'	25:BA:641:C:H5'	1.56	0.84
25:BA:687:C:H4'	54:B6:4:THR:CG2	2.06	0.84
25:BA:962:G:N2	25:BA:963:U:C2	2.46	0.84
26:BB:75:G:H4'	47:BY:36:LYS:NZ	1.91	0.84
28:BD:259:THR:HG22	28:BD:260:ARG:HG3	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:56:GLU:O	30:BF:57:VAL:C	2.12	0.84
31:BG:137:GLU:HA	31:BG:153:ARG:CG	2.07	0.84
32:BH:9:ILE:CD1	32:BH:69:ARG:HH22	1.89	0.84
33:BK:5:LEU:HB3	33:BK:8:PRO:CD	2.08	0.84
37:BO:45:LEU:HB2	55:B7:59:LYS:HZ2	1.42	0.84
38:BP:37:LEU:CG	38:BP:129:THR:HA	2.08	0.84
39:BQ:86:ARG:NH1	39:BQ:86:ARG:CB	2.39	0.84
44:BV:50:VAL:HG21	44:BV:103:ILE:HG13	1.60	0.84
1:AA:80:G:H2'	1:AA:81:G:O4'	1.77	0.84
1:AA:1269:A:H2'	1:AA:1270:C:O4'	1.78	0.84
1:AA:1298:C:H4'	1:AA:1299:A:C2	2.13	0.84
1:AA:533:A:C5	1:AA:536:C:N4	2.46	0.84
1:AA:761:G:H5'	20:AT:102:GLY:HA3	1.59	0.84
7:AG:200:GLU:HG3	7:AG:201:GLN:N	1.93	0.84
1:AA:668:G:H1'	18:AR:46:HIS:NE2	1.93	0.84
25:BA:1625:C:N3	25:BA:1626:G:H8	1.74	0.84
25:BA:2570:G:N2	25:BA:2571:C:C2	2.45	0.84
25:BA:2786:U:O2'	25:BA:2787:C:H5'	1.77	0.84
25:BA:2832:U:H1'	25:BA:2834:G:N3	1.93	0.84
25:BA:386:G:H4'	25:BA:387:U:C6	2.12	0.84
25:BA:411:G:O4'	25:BA:2407:G:OP1	1.94	0.84
25:BA:944:G:O6	37:BO:35:HIS:NE2	2.10	0.84
28:BD:91:ARG:NH2	28:BD:198:ASN:ND2	2.24	0.84
29:BE:46:ALA:HB2	29:BE:85:ASN:ND2	1.92	0.84
31:BG:55:LYS:HD2	31:BG:58:GLN:NE2	1.93	0.84
33:BK:45:LYS:HA	33:BK:45:LYS:HZ2	1.42	0.84
37:BO:46:LYS:HB2	37:BO:49:ARG:HB2	1.59	0.84
38:BP:121:ALA:O	38:BP:124:LYS:HB3	1.77	0.84
39:BQ:32:GLY:HA2	39:BQ:116:LEU:CD2	2.06	0.84
42:BT:88:ILE:HG12	43:BU:52:VAL:HG22	1.59	0.84
44:BV:88:ARG:HB3	44:BV:92:ARG:HH11	1.42	0.84
44:BV:90:ARG:NH2	44:BV:90:ARG:N	2.26	0.84
47:BY:101:PRO:HA	47:BY:124:ILE:HG12	1.58	0.84
47:BY:11:GLU:HG2	47:BY:36:LYS:NZ	1.92	0.84
47:BY:76:LEU:HA	47:BY:83:PRO:HB3	1.58	0.84
34:BL:27:LEU:HD21	34:BL:57:ILE:HD11	1.58	0.84
1:AA:1206:G:H4'	6:AF:192:THR:O	1.77	0.84
1:AA:1418:A:C2'	1:AA:1419:G:H5'	2.08	0.84
1:AA:565:U:P	1:AA:566:G:H3'	2.18	0.84
1:AA:676:A:H2'	1:AA:677:U:C6	2.12	0.84
1:AA:816:A:H4'	1:AA:817:C:H5''	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:823:G:H21	11:AK:1:MET:H2	1.25	0.84
1:AA:990:C:H2'	1:AA:991:U:C1'	2.07	0.84
5:AE:140:HIS:O	5:AE:143:GLU:HB3	1.78	0.84
10:AJ:50:ILE:HD12	10:AJ:58:PRO:HB3	1.59	0.84
19:AS:44:THR:CG2	19:AS:45:THR:H	1.90	0.84
55:B7:44:LYS:HA	55:B7:44:LYS:HZ2	1.42	0.84
55:B7:50:LEU:HD23	55:B7:51:ALA:N	1.91	0.84
25:BA:1188:U:C2'	25:BA:1189:A:H5'	2.08	0.84
25:BA:1604:C:O2'	25:BA:1605:C:H5'	1.78	0.84
25:BA:768:G:H5'	25:BA:1622:G:H4'	1.57	0.84
25:BA:1872:A:H2'	25:BA:1878:G:H5'	1.57	0.84
25:BA:364:C:H2'	25:BA:365:C:H5	1.39	0.84
25:BA:450:G:N2	25:BA:454:A:N6	2.25	0.84
25:BA:476:G:O4'	25:BA:505:A:H2	1.61	0.84
25:BA:603:A:N6	25:BA:624:C:N4	2.25	0.84
25:BA:644:A:O2'	25:BA:646:A:N6	2.11	0.84
25:BA:718:A:H3'	25:BA:719:C:H6	1.40	0.84
25:BA:803:U:C2'	25:BA:804:A:H5'	2.07	0.84
25:BA:957:A:N7	25:BA:959:A:N7	2.26	0.84
26:BB:60:C:H2'	26:BB:61:G:H8	1.41	0.84
28:BD:232:PRO:HG2	28:BD:246:PRO:C	1.98	0.84
29:BE:14:ILE:HD11	41:BS:14:TYR:HB3	1.60	0.84
29:BE:47:VAL:CG1	29:BE:77:ILE:HD11	2.07	0.84
29:BE:92:THR:O	29:BE:94:GLU:N	2.09	0.84
30:BF:164:ARG:CB	30:BF:177:ALA:HB2	2.08	0.84
30:BF:41:LEU:HB2	30:BF:44:ARG:NH1	1.92	0.84
31:BG:131:TYR:CD1	31:BG:132:ASN:N	2.44	0.84
31:BG:49:ASP:O	31:BG:53:LEU:HB2	1.78	0.84
31:BG:78:SER:HB3	31:BG:82:LEU:HD12	1.59	0.84
32:BH:69:ARG:HG3	32:BH:70:THR:N	1.92	0.84
33:BK:37:VAL:HG12	33:BK:38:LEU:N	1.93	0.84
35:BM:39:ARG:O	35:BM:42:TRP:CE3	2.30	0.84
37:BO:95:VAL:O	37:BO:97:PRO:HD2	1.75	0.84
39:BQ:20:LEU:C	39:BQ:20:LEU:HD13	1.97	0.84
41:BS:30:VAL:HG23	41:BS:90:GLN:HA	1.56	0.84
41:BS:53:ARG:HH22	41:BS:103:ARG:N	1.74	0.84
33:BK:87:LYS:HE2	33:BK:121:LYS:CB	2.08	0.84
15:AO:16:GLU:O	15:AO:16:GLU:HG3	1.77	0.84
1:AA:429:U:H5'	1:AA:430:A:OP1	1.76	0.84
3:AD:17:U:H5'	3:AD:18:G:O5'	1.78	0.84
5:AE:55:PHE:HA	5:AE:58:ILE:CD1	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:138:VAL:HG12	6:AF:170:GLN:NE2	1.93	0.84
13:AM:34:VAL:HG12	13:AM:35:SER:N	1.92	0.84
14:AN:21:ILE:CD1	14:AN:95:ILE:HG23	2.08	0.84
17:AQ:22:THR:HB	17:AQ:33:VAL:CG2	2.06	0.84
19:AS:8:ARG:NH2	19:AS:11:SER:O	2.11	0.84
55:B7:15:LYS:N	55:B7:22:VAL:HG13	1.93	0.84
25:BA:1212:G:C6	25:BA:1236:G:O6	2.31	0.84
25:BA:1613:G:H2'	25:BA:1617:C:N4	1.93	0.84
25:BA:2150:U:H2'	25:BA:2151:G:H8	1.43	0.84
25:BA:2415:G:C5'	37:BO:61:ARG:HB2	2.08	0.84
25:BA:2528:U:HO2'	25:BA:2529:G:H3'	1.37	0.84
25:BA:2602:A:O2'	25:BA:2603:G:P	2.36	0.84
25:BA:2845:G:H5''	41:BS:57:PHE:O	1.77	0.84
25:BA:388:G:OP2	51:B3:23:GLU:HG2	1.77	0.84
25:BA:503:A:N1	25:BA:505:A:N6	2.25	0.84
25:BA:827:U:H4'	25:BA:828:U:C2	2.13	0.84
26:BB:74:U:O4	26:BB:102:G:N2	2.11	0.84
27:BC:90:GLY:O	27:BC:153:ILE:HG22	1.78	0.84
28:BD:55:GLY:HA2	28:BD:217:ARG:CZ	2.08	0.84
33:BK:9:LEU:HB3	33:BK:13:GLY:HA3	1.56	0.84
39:BQ:59:ASP:O	39:BQ:63:ARG:HG3	1.78	0.84
40:BR:17:ARG:NE	40:BR:89:ARG:HB2	1.92	0.84
42:BT:15:LYS:HA	42:BT:18:LEU:CG	2.07	0.84
44:BV:47:VAL:O	44:BV:51:LEU:HD13	1.78	0.84
48:BZ:26:TYR:CD1	48:BZ:29:GLN:HB2	2.12	0.84
1:AA:1262:C:H2'	1:AA:1263:C:H6	1.40	0.83
1:AA:751:U:H2'	1:AA:752:G:O4'	1.77	0.83
1:AA:799:G:N2	1:AA:800:G:H1'	1.92	0.83
3:AD:75:C:H5''	3:AD:76:A:O2'	1.78	0.83
5:AE:91:PRO:HB3	5:AE:152:PHE:CD1	2.13	0.83
5:AE:178:ARG:NH2	5:AE:196:LEU:HB2	1.93	0.83
7:AG:135:LEU:C	7:AG:137:SER:H	1.76	0.83
8:AH:102:ALA:CB	8:AH:120:THR:HG22	2.03	0.83
8:AH:142:LEU:O	8:AH:143:ARG:HD3	1.78	0.83
11:AK:111:ILE:HD12	11:AK:111:ILE:N	1.93	0.83
1:AA:523:A:H61	15:AO:53:ARG:NH2	1.76	0.83
18:AR:39:LEU:HD22	18:AR:56:LEU:HD22	1.60	0.83
1:AA:761:G:H5'	20:AT:102:GLY:CA	2.08	0.83
20:AT:3:LYS:HE3	20:AT:60:ILE:HD11	1.60	0.83
21:AU:81:PHE:O	21:AU:82:THR:HG22	1.78	0.83
53:B5:17:LYS:HZ3	53:B5:48:VAL:HG22	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1238:G:O2'	25:BA:1239:G:H5'	1.78	0.83
25:BA:1518:C:H3'	25:BA:1519:G:H5''	1.60	0.83
25:BA:1551:C:H2'	25:BA:1552:G:C8	2.12	0.83
25:BA:221:A:H3'	25:BA:221:A:C8	2.13	0.83
25:BA:2553:G:N2	25:BA:2554:U:O2	2.09	0.83
25:BA:2771:C:H2'	25:BA:2772:C:C6	2.13	0.83
25:BA:792:G:N7	25:BA:2440:C:H1'	1.93	0.83
28:BD:157:ARG:HB3	28:BD:160:GLY:O	1.77	0.83
28:BD:8:PRO:CD	28:BD:26:LYS:H	1.91	0.83
28:BD:268:ARG:NH2	28:BD:272:ALA:HB2	1.92	0.83
29:BE:131:ALA:HB1	29:BE:134:ILE:HG12	1.57	0.83
30:BF:36:VAL:HG11	30:BF:183:VAL:HG21	1.59	0.83
31:BG:74:LYS:HB3	31:BG:87:PRO:CG	2.07	0.83
35:BM:28:THR:O	35:BM:31:ALA:HB3	1.78	0.83
37:BO:112:LEU:O	37:BO:129:ALA:HB3	1.77	0.83
37:BO:114:ILE:HG13	37:BO:123:LEU:CB	2.07	0.83
41:BS:34:VAL:CG2	41:BS:84:GLN:HG2	2.08	0.83
25:BA:2875:C:H4'	41:BS:3:ARG:HB2	1.58	0.83
42:BT:92:ARG:C	42:BT:94:ASN:N	2.27	0.83
42:BT:96:ALA:O	42:BT:100:VAL:HG23	1.78	0.83
25:BA:84:A:H5'	46:BX:8:LYS:HE2	1.58	0.83
26:BB:3:C:H2'	26:BB:4:C:H6	1.43	0.83
1:AA:595:G:N7	1:AA:641:U:N3	2.26	0.83
1:AA:664:G:C5'	21:AU:64:ARG:HH21	1.90	0.83
5:AE:145:LEU:O	5:AE:149:LEU:HB2	1.78	0.83
5:AE:168:THR:CG2	5:AE:192:SER:HA	2.07	0.83
11:AK:14:ARG:O	11:AK:17:THR:HB	1.78	0.83
12:AL:3:GLN:HA	12:AL:20:ARG:HG2	1.60	0.83
12:AL:48:GLU:HB3	12:AL:78:LYS:NZ	1.93	0.83
19:AS:43:LYS:HG3	19:AS:48:TRP:CZ3	2.13	0.83
25:BA:1142:U:C6	25:BA:1142(A):A:C8	2.65	0.83
25:BA:1454:U:O2	25:BA:1454:U:H2'	1.78	0.83
25:BA:1995:U:H5'	25:BA:1996:C:C5'	2.07	0.83
25:BA:2051:A:C5	25:BA:2614:A:N7	2.46	0.83
25:BA:2581:G:H4'	25:BA:2582:G:C8	2.13	0.83
28:BD:37:LEU:HD21	28:BD:63:ARG:CA	2.08	0.83
32:BH:33:LEU:CD1	32:BH:75:ALA:HA	2.06	0.83
36:BN:53:LYS:HG3	36:BN:54:GLU:N	1.93	0.83
36:BN:64:ARG:HH12	36:BN:68:GLU:N	1.75	0.83
41:BS:3:ARG:O	41:BS:7:ILE:HG12	1.78	0.83
45:BW:85:PRO:CG	45:BW:87:GLN:HG2	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BX:50:ARG:CB	46:BX:54:LYS:HD3	2.05	0.83
34:BL:76:TYR:O	34:BL:80:LYS:HD3	1.78	0.83
1:AA:1064:G:N3	1:AA:1066:C:N3	2.26	0.83
1:AA:1472:U:H2'	1:AA:1473:A:H8	1.41	0.83
1:AA:141:A:H1'	1:AA:182:U:O2	1.77	0.83
1:AA:262:A:C2	1:AA:263:A:C6	2.67	0.83
2:AC:34:C:H2'	2:AC:35:A:C5'	2.06	0.83
5:AE:42:ILE:HD11	5:AE:202:PRO:HB2	1.60	0.83
7:AG:204:ILE:HD12	7:AG:204:ILE:H	1.41	0.83
13:AM:30:SER:HB2	13:AM:81:THR:N	1.93	0.83
22:AV:46:GLY:HA2	22:AV:62:ILE:O	1.77	0.83
25:BA:1800:C:C6	25:BA:1800:C:C3'	2.57	0.83
25:BA:2323:G:H2'	25:BA:2324:C:C6	2.13	0.83
25:BA:2850:A:H2'	25:BA:2851:A:C8	2.13	0.83
25:BA:622:G:O2'	25:BA:623:G:H5'	1.77	0.83
25:BA:641:C:H5	25:BA:642:G:N3	1.77	0.83
28:BD:8:PRO:HD2	28:BD:26:LYS:C	1.99	0.83
30:BF:6:VAL:HA	30:BF:20:LEU:HD22	1.59	0.83
36:BN:47:ILE:HD12	36:BN:53:LYS:H	1.44	0.83
37:BO:46:LYS:HZ3	37:BO:50:ARG:CZ	1.91	0.83
39:BQ:102:GLU:CG	39:BQ:103:ARG:H	1.91	0.83
39:BQ:99:LYS:HG2	52:B4:43:HIS:NE2	1.92	0.83
41:BS:34:VAL:HG11	41:BS:36:GLU:OE2	1.78	0.83
46:BX:21:LYS:HB2	46:BX:23:ARG:NH1	1.93	0.83
46:BX:6:HIS:CB	46:BX:71:LYS:HG2	2.08	0.83
34:BL:103:GLN:O	34:BL:106:GLU:HG3	1.79	0.83
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.14	0.83
1:AA:1277:C:H4'	1:AA:1282:C:C1'	2.09	0.83
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.44	0.83
1:AA:1494:G:O2'	1:AA:1495:U:C5	2.32	0.83
1:AA:49:U:C2	1:AA:364:A:N6	2.46	0.83
1:AA:760:G:O2'	20:AT:103:GLY:HA3	1.78	0.83
1:AA:767:A:O2'	1:AA:768:A:H5'	1.78	0.83
1:AA:979:C:H42	17:AQ:18:VAL:HB	1.44	0.83
7:AG:148:VAL:HG11	7:AG:158:ILE:HD12	1.58	0.83
12:AL:102:LEU:O	12:AL:103:THR:HB	1.79	0.83
15:AO:5:PRO:CB	15:AO:10:LEU:HD21	2.07	0.83
51:B3:24:THR:C	51:B3:25:TYR:HD2	1.82	0.83
25:BA:2286:A:H61	53:B5:28:ARG:C	1.82	0.83
54:B6:8:ASN:HB3	54:B6:11:LYS:HB3	1.59	0.83
54:B6:43:THR:CA	54:B6:46:VAL:HB	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1179:C:H2'	25:BA:1180:C:C6	2.14	0.83
25:BA:120:U:O2'	25:BA:121:G:H5''	1.79	0.83
25:BA:1242:A:H3'	25:BA:1243:G:H8	1.43	0.83
25:BA:152:G:O2'	25:BA:153:C:H5'	1.78	0.83
25:BA:1579:A:H61	25:BA:1581:G:N2	1.76	0.83
25:BA:228:A:H2'	25:BA:229:A:H5'	1.60	0.83
25:BA:2332:U:H4'	25:BA:2336:A:N6	1.93	0.83
25:BA:2447:G:N7	25:BA:2500:U:C3'	2.41	0.83
25:BA:2820:A:O3'	39:BQ:4:LEU:HD22	1.78	0.83
25:BA:2864:G:H2'	25:BA:2865:U:C6	2.12	0.83
25:BA:360:G:C2'	25:BA:361:G:H5'	2.08	0.83
25:BA:373:U:O2	25:BA:400:G:N2	2.11	0.83
25:BA:775:G:N2	25:BA:788:A:OP2	2.11	0.83
27:BC:167:LYS:CG	27:BC:168:THR:H	1.79	0.83
28:BD:119:ALA:HA	28:BD:123:ALA:HB2	1.60	0.83
25:BA:2209:C:H4'	28:BD:150:LYS:CB	2.07	0.83
28:BD:226:MET:HB3	28:BD:227:ASN:ND2	1.92	0.83
29:BE:133:LYS:HB3	29:BE:137:HIS:CE1	2.14	0.83
25:BA:2563:U:H4'	36:BN:28:SER:HB3	1.58	0.83
37:BO:114:ILE:O	37:BO:114:ILE:HG22	1.76	0.83
39:BQ:32:GLY:CA	39:BQ:116:LEU:HD21	2.05	0.83
47:BY:59:LEU:HD21	47:BY:66:SER:OG	1.77	0.83
33:BK:59:ALA:CA	33:BK:62:LYS:HD2	2.08	0.83
1:AA:1354:C:H2'	1:AA:1355:G:C8	2.12	0.83
1:AA:770:C:C1'	1:AA:900:A:H2	1.92	0.83
1:AA:914:A:H2'	1:AA:915:A:C8	2.13	0.83
5:AE:82:ARG:CA	5:AE:92:TYR:HE1	1.90	0.83
7:AG:20:TYR:N	7:AG:33:MET:SD	2.51	0.83
16:AP:20:THR:HA	16:AP:25:ILE:HG22	1.61	0.83
56:B8:24:TYR:CE2	56:B8:35:ARG:HB3	2.13	0.83
25:BA:1635:G:H8	25:BA:1635:G:O5'	1.60	0.83
25:BA:1697:G:H3'	25:BA:1698:A:H5''	1.58	0.83
25:BA:2023:G:H2'	25:BA:2024:G:H8	1.41	0.83
25:BA:2052:G:N9	29:BE:150:VAL:HG23	1.93	0.83
25:BA:2748:A:C6	25:BA:2757:A:N6	2.46	0.83
25:BA:292:C:C3'	25:BA:293:U:N3	2.41	0.83
25:BA:388:G:N3	25:BA:390:A:C6	2.46	0.83
25:BA:640:C:H2'	25:BA:641:C:H5''	1.59	0.83
25:BA:972:G:H3'	25:BA:973:A:C5'	2.08	0.83
28:BD:259:THR:HG22	28:BD:260:ARG:H	1.42	0.83
32:BH:38:SER:HB3	32:BH:41:MET:CG	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:39:ARG:HB2	35:BM:40:PRO:HD2	1.57	0.83
37:BO:35:HIS:CB	37:BO:36:LYS:HE2	2.08	0.83
41:BS:53:ARG:HA	41:BS:53:ARG:NE	1.91	0.83
41:BS:54:ARG:HD2	41:BS:55:ASN:H	1.41	0.83
41:BS:95:ARG:HG2	41:BS:96:ARG:H	1.40	0.83
46:BX:82:PRO:CG	46:BX:97:ARG:H	1.91	0.83
1:AA:1378:C:N3	1:AA:1379:G:H1'	1.94	0.83
1:AA:173:U:H5'	1:AA:197:A:H1'	1.59	0.83
5:AE:18:GLY:CA	5:AE:41:ILE:HA	2.07	0.83
7:AG:63:LYS:HG3	7:AG:198:VAL:HG12	1.61	0.83
50:B2:35:ARG:HH12	50:B2:47:VAL:CG2	1.91	0.83
51:B3:56:VAL:CG1	51:B3:61:ARG:HG2	2.07	0.83
54:B6:21:ARG:CB	54:B6:31:LEU:HD21	2.09	0.83
25:BA:1013:C:OP2	25:BA:1142:U:N3	2.10	0.83
25:BA:1143:A:HO2'	25:BA:1144:G:H8	1.26	0.83
25:BA:1531:C:H2'	25:BA:1532:C:C5	2.14	0.83
25:BA:199:A:C4	25:BA:2433:A:C2	2.66	0.83
25:BA:2329:G:N1	25:BA:2386:C:N4	2.22	0.83
25:BA:2889:C:H2'	25:BA:2891:G:H8	1.41	0.83
25:BA:312:G:H2'	25:BA:312:G:N3	1.94	0.83
25:BA:446:G:H8	25:BA:446:G:OP2	1.60	0.83
25:BA:697:C:O2'	25:BA:698:C:H5''	1.77	0.83
25:BA:778:G:N2	25:BA:787:U:H1'	1.93	0.83
27:BC:204:ALA:HB2	27:BC:208:PHE:CE2	2.14	0.83
29:BE:4:ILE:HG23	29:BE:27:LEU:HD11	1.59	0.83
33:BK:45:LYS:HZ2	33:BK:48:GLU:HB2	1.42	0.83
36:BN:39:ILE:HG12	36:BN:59:LYS:HE3	1.60	0.83
41:BS:15:VAL:HG12	41:BS:16:ARG:O	1.77	0.83
45:BW:14:SER:HB2	45:BW:16:LYS:HE3	1.59	0.83
48:BZ:12:ASN:HA	48:BZ:14:ARG:HH21	1.42	0.83
1:AA:1260:C:H4'	1:AA:1284:C:C5'	2.08	0.83
11:AK:126:LYS:HZ2	11:AK:127:LEU:CD2	1.90	0.83
12:AL:93:ARG:HH22	12:AL:97:LYS:HE2	1.41	0.83
15:AO:39:VAL:HG11	15:AO:41:ARG:NH2	1.93	0.83
1:AA:1329:A:H5''	16:AP:29:ARG:CG	2.09	0.83
51:B3:27:THR:HG22	51:B3:28:LYS:N	1.93	0.83
52:B4:51:TYR:CD1	52:B4:54:GLY:N	2.47	0.83
25:BA:1976:U:HO2'	25:BA:1977:A:H8	1.21	0.83
25:BA:2121:G:H1'	27:BC:167:LYS:NZ	1.93	0.83
25:BA:2749:A:C2	25:BA:2757:A:N1	2.46	0.83
25:BA:280:C:OP2	25:BA:280:C:C6	2.31	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:962:G:H2'	25:BA:963:U:H6	1.44	0.83
25:BA:976:C:N4	25:BA:988:A:N3	2.27	0.83
26:BB:32:C:H3'	26:BB:33:G:H8	1.43	0.83
30:BF:176:LEU:CG	30:BF:178:PRO:HD2	2.08	0.83
25:BA:450:G:H5'	30:BF:52:LYS:HD3	1.58	0.83
30:BF:64:ILE:HD13	30:BF:65:TRP:H	1.37	0.83
25:BA:1257:C:O2'	30:BF:83:PHE:HB2	1.79	0.83
33:BK:30:LEU:O	33:BK:31:LEU:HD23	1.78	0.83
36:BN:13:ASN:ND2	36:BN:52:VAL:HG12	1.94	0.83
37:BO:63:PRO:HG2	37:BO:65:ARG:CG	2.08	0.83
41:BS:13:ARG:CB	41:BS:13:ARG:HH11	1.91	0.83
36:BN:77:ILE:HD13	41:BS:65:LYS:CE	2.09	0.83
44:BV:40:ASN:O	44:BV:41:LYS:HG3	1.79	0.83
33:BK:81:VAL:HG23	33:BK:145:VAL:O	1.78	0.83
25:BA:1071:G:H2'	25:BA:1072:C:H5'	1.60	0.83
34:BL:117:THR:O	34:BL:118:THR:HG23	1.79	0.83
1:AA:1261:A:H61	1:AA:1274:G:H1'	1.43	0.83
1:AA:28:G:O2'	1:AA:296:U:OP1	1.96	0.83
1:AA:322:C:H42	1:AA:329:A:N6	1.76	0.83
1:AA:21:G:N2	1:AA:916:G:C5	2.47	0.83
6:AF:155:GLY:O	6:AF:196:LEU:HB2	1.78	0.83
6:AF:14:ILE:CG2	6:AF:179:ARG:HA	2.08	0.83
11:AK:115:SER:C	11:AK:116:LYS:HD2	1.99	0.83
1:AA:600:C:OP1	11:AK:97:VAL:N	2.12	0.83
13:AM:15:THR:HG23	13:AM:16:LEU:HD22	1.61	0.83
13:AM:34:VAL:HG12	13:AM:35:SER:H	1.42	0.83
15:AO:47:LYS:N	15:AO:48:PRO:HD2	1.93	0.83
1:AA:43:C:OP1	19:AS:12:LYS:HG2	1.79	0.83
52:B4:17:ASP:O	52:B4:18:ALA:C	2.16	0.83
25:BA:977:G:H1'	25:BA:1001:A:H2	1.43	0.83
25:BA:1859:A:H2	25:BA:1884:A:HO2'	0.87	0.83
25:BA:200:U:H5	25:BA:201:C:N1	1.77	0.83
25:BA:2082:A:H2'	25:BA:2083:G:H8	1.44	0.83
25:BA:2210:G:C6	28:BD:150:LYS:HA	2.13	0.83
25:BA:2581:G:H1	25:BA:2610:C:C2'	1.89	0.83
25:BA:468:G:O2'	25:BA:469:G:H5'	1.79	0.83
25:BA:627:A:H61	25:BA:638:G:H1'	1.42	0.83
27:BC:91:ALA:CA	27:BC:153:ILE:HG21	2.08	0.83
29:BE:164:ARG:O	29:BE:165:VAL:HG23	1.79	0.83
29:BE:47:VAL:CG2	29:BE:79:ARG:HB2	2.09	0.83
30:BF:70:THR:O	30:BF:72:ARG:N	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:75:LYS:HZ3	31:BG:85:GLY:CA	1.91	0.83
33:BK:5:LEU:HG	33:BK:17:GLN:O	1.79	0.83
35:BM:10:GLU:HG2	35:BM:12:ARG:HH22	1.42	0.83
25:BA:1453:A:N6	39:BQ:63:ARG:HH21	1.77	0.83
42:BT:9:VAL:O	42:BT:13:LYS:HD2	1.76	0.83
43:BU:4:ILE:CG1	43:BU:13:ARG:HG2	2.09	0.83
44:BV:13:SER:O	44:BV:17:VAL:HG13	1.78	0.83
46:BX:47:LYS:HD3	46:BX:49:VAL:HG21	1.60	0.83
47:BY:19:ARG:HH21	47:BY:84:GLU:HB3	1.41	0.83
1:AA:1253:G:H2'	1:AA:1254:C:O4'	1.79	0.83
5:AE:47:THR:O	5:AE:51:LEU:HG	1.79	0.83
5:AE:70:PHE:HD2	5:AE:163:PHE:HB3	1.42	0.83
16:AP:19:LEU:HD11	16:AP:30:ALA:HB2	1.59	0.83
50:B2:9:VAL:HG23	50:B2:10:LYS:N	1.93	0.83
51:B3:46:GLN:HE22	51:B3:69:LYS:HE2	1.43	0.83
25:BA:973:A:HO2'	25:BA:1188:U:H5	0.86	0.83
25:BA:1614:A:N3	25:BA:1614:A:H3'	1.94	0.83
25:BA:1633:G:N7	25:BA:1635:G:C6	2.47	0.83
25:BA:2114:A:C2'	25:BA:2115:G:H5'	2.09	0.83
25:BA:2606:C:H6	25:BA:2606:C:H5'	1.44	0.83
25:BA:2835:A:H1'	25:BA:2836:U:H5	1.42	0.83
25:BA:2853:C:O2'	25:BA:2854:G:H5'	1.79	0.83
25:BA:458:G:H1'	25:BA:469:G:C6	2.12	0.83
25:BA:612:G:H4'	25:BA:616:A:C6	2.14	0.83
25:BA:650:C:O2	25:BA:650:C:H2'	1.79	0.83
27:BC:18:LYS:HE3	27:BC:20:TYR:HB3	1.61	0.83
28:BD:54:ARG:HB3	28:BD:218:ARG:CB	2.08	0.83
29:BE:111:ARG:N	29:BE:161:GLY:HA3	1.93	0.83
29:BE:30:PRO:HB2	29:BE:48:GLN:HB2	1.61	0.83
31:BG:51:ARG:HD2	31:BG:51:ARG:N	1.91	0.83
36:BN:18:LYS:H	36:BN:45:GLU:HG3	1.43	0.83
40:BR:106:ARG:NE	40:BR:110:LEU:HD22	1.94	0.83
41:BS:53:ARG:NH2	41:BS:102:ILE:N	2.27	0.83
43:BU:40:LEU:HG	43:BU:55:ALA:N	1.94	0.83
45:BW:18:TYR:HA	45:BW:21:PHE:CD1	2.14	0.83
45:BW:33:LYS:HD2	45:BW:33:LYS:O	1.77	0.83
46:BX:96:ILE:HD12	46:BX:96:ILE:N	1.93	0.83
48:BZ:25:ARG:HG2	48:BZ:37:LEU:HA	1.60	0.83
33:BK:93:THR:HG23	33:BK:95:LYS:H	1.43	0.83
34:BL:14:ALA:HB3	34:BL:49:GLY:HA2	1.61	0.83
1:AA:20:U:O2'	1:AA:21:G:H5'	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:792:A:H2'	1:AA:794:A:N6	1.94	0.83
5:AE:138:LEU:O	5:AE:141:GLU:HB3	1.79	0.83
8:AH:37:ARG:HG3	8:AH:111:GLU:O	1.79	0.83
12:AL:112:LYS:CE	12:AL:117:HIS:HA	2.09	0.83
1:AA:964:A:H1'	13:AM:55:LYS:NZ	1.94	0.83
14:AN:58:PRO:HB2	14:AN:93:GLN:CG	2.09	0.83
14:AN:96:ARG:HA	14:AN:99:GLN:OE1	1.79	0.83
21:AU:74:ARG:HB3	21:AU:81:PHE:CD2	2.13	0.83
50:B2:35:ARG:HH21	50:B2:54:VAL:HG21	1.42	0.83
25:BA:2623:G:N2	52:B4:22:HIS:CE1	2.44	0.83
56:B8:3:VAL:O	56:B8:5:ALA:N	2.12	0.83
25:BA:1137:G:O2'	35:BM:105:GLY:HA3	1.79	0.83
25:BA:1478:G:H2'	25:BA:1479:G:O4'	1.79	0.83
25:BA:1735:C:C2	25:BA:1741:C:H5	1.97	0.83
25:BA:175:G:N2	25:BA:176:G:H1'	1.94	0.83
25:BA:185:U:H2'	25:BA:186:G:H8	1.44	0.83
25:BA:2457:U:O2'	25:BA:2458:G:H5'	1.79	0.83
25:BA:2587:A:H2'	25:BA:2588:G:H5'	1.58	0.83
25:BA:343:C:H2'	25:BA:344:G:C5'	2.06	0.83
25:BA:804:A:H5''	25:BA:805:G:OP1	1.78	0.83
25:BA:1789:A:H1'	28:BD:222:ARG:NH2	1.94	0.83
28:BD:8:PRO:HD2	28:BD:26:LYS:N	1.94	0.83
29:BE:60:ASN:CG	29:BE:61:ARG:N	2.32	0.83
35:BM:57:ALA:HB1	35:BM:99:LEU:HD23	1.60	0.83
42:BT:93:LYS:HB2	43:BU:10:LYS:HD2	1.60	0.83
44:BV:59:VAL:HG21	44:BV:66:GLU:HB2	1.58	0.83
48:BZ:39:ARG:HH11	48:BZ:39:ARG:HG2	1.42	0.83
33:BK:75:LEU:CD1	33:BK:76:THR:H	1.92	0.83
34:BL:23:VAL:HG12	34:BL:34:ILE:HA	1.61	0.83
1:AA:1043:C:H2'	1:AA:1044:A:O4'	1.76	0.83
1:AA:1534:A:OP2	1:AA:1534:A:C8	2.32	0.82
1:AA:389:A:H2'	1:AA:390:C:C5'	2.09	0.82
1:AA:753:A:H5'	1:AA:754:C:C5	2.13	0.82
1:AA:767:A:O5'	1:AA:767:A:H8	1.62	0.82
5:AE:84:GLU:OE1	5:AE:216:SER:HA	1.78	0.82
6:AF:123:GLN:HB3	6:AF:128:PHE:HE2	1.44	0.82
8:AH:71:LEU:HD23	8:AH:72:GLN:H	1.37	0.82
11:AK:86:ILE:HD13	11:AK:135:CYS:HA	1.61	0.82
16:AP:55:ARG:NH2	16:AP:56:LEU:HD21	1.94	0.82
18:AR:5:LYS:O	18:AR:8:LYS:HB3	1.79	0.82
18:AR:79:ARG:HB2	18:AR:79:ARG:NH1	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:12:LYS:HG3	24:AX:17:THR:OG1	1.78	0.82
50:B2:31:LEU:O	50:B2:31:LEU:HD13	1.78	0.82
25:BA:146:G:C3'	25:BA:147:U:H5''	2.08	0.82
25:BA:1491:G:C2'	25:BA:1492:G:H4'	2.08	0.82
25:BA:1492:G:N2	25:BA:1493:C:H42	1.77	0.82
25:BA:1977:A:C2	25:BA:1978:A:H1'	2.14	0.82
25:BA:2075:U:O2'	25:BA:2076:U:H5'	1.77	0.82
25:BA:2424:C:H5'	25:BA:2425:A:H5'	1.61	0.82
25:BA:247:G:H1	55:B7:8:LYS:CD	1.86	0.82
25:BA:270(N):G:H5''	25:BA:270(O):U:C5	2.13	0.82
25:BA:428:A:N3	25:BA:428:A:H2'	1.94	0.82
25:BA:657:U:H2'	25:BA:658:C:H6	1.44	0.82
28:BD:161:THR:HG23	28:BD:196:VAL:N	1.94	0.82
31:BG:49:ASP:HA	31:BG:53:LEU:HD22	1.61	0.82
32:BH:35:VAL:CG1	32:BH:75:ALA:HB2	2.09	0.82
33:BK:45:LYS:NZ	33:BK:45:LYS:HA	1.94	0.82
35:BM:15:LEU:HG	35:BM:139:GLU:HG2	1.60	0.82
35:BM:7:LYS:CE	35:BM:8:GLN:H	1.92	0.82
38:BP:46:GLN:O	38:BP:49:ALA:HB3	1.79	0.82
42:BT:47:TYR:HB3	42:BT:51:LYS:CE	2.07	0.82
44:BV:88:ARG:NE	44:BV:88:ARG:HA	1.94	0.82
45:BW:12:VAL:HG23	45:BW:28:PHE:CA	2.09	0.82
45:BW:49:VAL:HG12	45:BW:88:LYS:CB	2.08	0.82
47:BY:98:MET:HE2	47:BY:100:VAL:HG13	1.61	0.82
33:BK:69:LYS:HG2	33:BK:70:LYS:N	1.91	0.82
34:BL:35:MET:HA	34:BL:38:VAL:HB	1.58	0.82
1:AA:1159:U:C5	1:AA:1182:G:H1'	2.13	0.82
1:AA:1274:G:N2	1:AA:1275:A:H62	1.77	0.82
1:AA:475:G:H2'	1:AA:476:G:H8	1.43	0.82
1:AA:610:G:O2'	1:AA:611:A:H5'	1.79	0.82
5:AE:78:GLN:HG3	5:AE:94:ASN:CB	2.06	0.82
13:AM:32:ALA:O	13:AM:33:GLN:HB2	1.77	0.82
15:AO:60:LEU:CD1	15:AO:64:TYR:HB3	2.09	0.82
20:AT:92:ARG:O	20:AT:95:TYR:HB2	1.80	0.82
23:AW:92:LEU:O	23:AW:93:GLU:HG3	1.79	0.82
49:B1:28:MET:HA	49:B1:31:ARG:HH21	1.43	0.82
53:B5:19:ARG:CZ	53:B5:41:PRO:HG3	2.09	0.82
25:BA:1133:U:O2'	25:BA:1134:G:H5''	1.79	0.82
25:BA:1453:A:C6	25:BA:1454:U:H1'	2.14	0.82
25:BA:1475:G:C2	25:BA:1476:C:H6	1.97	0.82
25:BA:1663:C:O2'	25:BA:1664:A:O4'	1.97	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:181:A:H2'	25:BA:182:A:C8	2.14	0.82
25:BA:2389:G:H5''	25:BA:2390:U:O5'	1.79	0.82
25:BA:2059:A:C2	25:BA:2503:A:C6	2.66	0.82
25:BA:2539:C:O2'	25:BA:2540:C:H5'	1.79	0.82
25:BA:688:U:H5'	25:BA:1780:A:N1	1.94	0.82
26:BB:103:U:H6	26:BB:103:U:H5''	1.44	0.82
30:BF:136:THR:HA	30:BF:166:ALA:HB1	1.62	0.82
32:BH:120:GLY:C	32:BH:135:GLY:HA2	1.99	0.82
36:BN:10:VAL:HG11	36:BN:14:THR:HG21	1.60	0.82
38:BP:111:GLU:HB3	38:BP:112:GLU:OE1	1.79	0.82
39:BQ:28:LEU:HD13	39:BQ:29:LEU:N	1.93	0.82
25:BA:535:C:H5'	42:BT:49:HIS:HB3	1.58	0.82
45:BW:92:LEU:CD1	45:BW:92:LEU:H	1.91	0.82
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.38	0.82
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.44	0.82
1:AA:733:A:C8	1:AA:733:A:H3'	2.15	0.82
1:AA:745:C:H5'	1:AA:851:G:N3	1.94	0.82
1:AA:961:U:HO2'	1:AA:962:C:H5'	1.43	0.82
5:AE:158:LEU:HB2	5:AE:160:ASP:OD1	1.79	0.82
7:AG:135:LEU:O	7:AG:137:SER:N	2.11	0.82
13:AM:27:ALA:HB2	13:AM:85:LEU:HG	1.61	0.82
18:AR:62:GLN:O	18:AR:66:LEU:HD22	1.79	0.82
20:AT:59:ILE:HG12	20:AT:71:PHE:HB3	1.59	0.82
53:B5:16:CYS:HB2	53:B5:49:HIS:CA	2.02	0.82
53:B5:45:LYS:HA	53:B5:45:LYS:HE2	1.61	0.82
25:BA:1248:G:N2	30:BF:52:LYS:HZ1	1.77	0.82
25:BA:1471:A:N6	25:BA:1519:G:H22	1.73	0.82
25:BA:1542:G:H1'	25:BA:1543:A:C5	2.15	0.82
25:BA:1779:U:O5'	25:BA:1779:U:H6	1.63	0.82
25:BA:2332:U:C4'	25:BA:2336:A:N6	2.41	0.82
25:BA:2449:U:O4'	25:BA:2449:U:OP1	1.97	0.82
25:BA:2661:G:H2'	25:BA:2662:A:C8	2.13	0.82
25:BA:2665:A:C8	25:BA:2665:A:H5''	2.15	0.82
25:BA:2805:G:H2'	25:BA:2807:G:C4'	2.09	0.82
25:BA:295:G:H2'	25:BA:338:G:N2	1.95	0.82
25:BA:986:C:H6	25:BA:986:C:O5'	1.62	0.82
28:BD:8:PRO:O	28:BD:25:THR:CA	2.23	0.82
28:BD:76:PRO:O	28:BD:98:VAL:HG23	1.79	0.82
35:BM:126:PRO:CG	35:BM:128:HIS:HB2	2.08	0.82
35:BM:42:TRP:CH2	42:BT:67:ALA:HB1	2.13	0.82
35:BM:44:PRO:HG2	35:BM:45:ASN:OD1	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:7:ALA:H	44:BV:103:ILE:HD13	1.43	0.82
45:BW:44:GLU:HG3	45:BW:51:VAL:CG2	2.07	0.82
25:BA:1061:U:H4'	25:BA:1070:A:O4'	1.80	0.82
1:AA:1128:C:O2	1:AA:1130:A:N6	2.12	0.82
1:AA:501:C:H1'	1:AA:549:C:H1'	1.62	0.82
1:AA:522:C:H2'	1:AA:523:A:C8	2.15	0.82
1:AA:716:A:O2'	1:AA:717:C:H5'	1.79	0.82
11:AK:45:ILE:CD1	11:AK:48:TYR:HB3	2.08	0.82
23:AW:45:GLN:HE21	23:AW:91:LEU:HB3	1.41	0.82
51:B3:43:TYR:CA	51:B3:61:ARG:NH2	2.38	0.82
25:BA:1024:G:H3'	25:BA:1025:G:C5'	2.08	0.82
25:BA:1319:G:O2'	25:BA:1320:C:H5'	1.80	0.82
25:BA:1516:U:H2'	25:BA:1517:G:C8	2.13	0.82
25:BA:141:A:C2	25:BA:1597:A:H5'	2.13	0.82
25:BA:1619:G:H2'	25:BA:1620:G:H5'	1.61	0.82
25:BA:1729:A:N7	25:BA:1731:G:O6	2.12	0.82
25:BA:1746:G:H2'	25:BA:1747:G:H8	1.42	0.82
25:BA:1789:A:OP1	28:BD:222:ARG:HG2	1.79	0.82
25:BA:1791:A:H3'	25:BA:1792:G:H8	1.43	0.82
25:BA:2386:C:H2'	25:BA:2386:C:O2	1.79	0.82
25:BA:2720:U:O4	25:BA:2872:G:N1	2.13	0.82
25:BA:452:G:C2'	25:BA:457:A:H61	1.92	0.82
25:BA:637:A:C2	25:BA:651:G:C4'	2.63	0.82
26:BB:52:A:C2	26:BB:53:A:H1'	2.14	0.82
27:BC:75:LEU:CD1	27:BC:99:ILE:HD13	2.09	0.82
25:BA:1566:A:C5	28:BD:215:LEU:HD22	2.14	0.82
29:BE:58:ARG:O	29:BE:63:LEU:HD21	1.79	0.82
30:BF:89:VAL:HG12	30:BF:90:PHE:N	1.92	0.82
31:BG:38:VAL:HG12	31:BG:93:THR:HA	1.60	0.82
32:BH:13:LYS:O	32:BH:15:VAL:N	2.10	0.82
25:BA:1007:C:H4'	35:BM:108:PRO:CG	2.10	0.82
41:BS:17:THR:HG21	41:BS:22:PHE:CE2	2.14	0.82
42:BT:25:TRP:CE3	42:BT:26:GLY:O	2.33	0.82
42:BT:55:ARG:HA	42:BT:58:ARG:NH1	1.92	0.82
43:BU:40:LEU:CB	43:BU:51:VAL:HG13	2.08	0.82
33:BK:96:ASP:HA	33:BK:99:GLU:OE2	1.78	0.82
34:BL:105:LEU:HD22	34:BL:124:ALA:CB	2.07	0.82
25:BA:207:A:H2'	25:BA:208:C:H6	1.45	0.82
1:AA:130:A:H5'	20:AT:63:ARG:HH21	1.45	0.82
1:AA:42:G:H2'	1:AA:43:C:H6	1.44	0.82
1:AA:484:G:C8	1:AA:486:U:N3	2.48	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:54:THR:O	5:AE:58:ILE:HG13	1.79	0.82
7:AG:108:LEU:O	7:AG:110:PHE:N	2.12	0.82
10:AJ:28:ASN:O	10:AJ:31:MET:HB3	1.79	0.82
11:AK:100:ILE:HD11	11:AK:125:ARG:HG3	1.59	0.82
11:AK:25:ASP:OD2	11:AK:60:ARG:HB2	1.78	0.82
19:AS:4:ILE:HG23	19:AS:21:VAL:HG13	1.62	0.82
25:BA:1405:U:H2'	25:BA:1406:U:C5	2.14	0.82
25:BA:1918:A:C8	25:BA:1919:A:N6	2.48	0.82
25:BA:2018:G:H2'	25:BA:2019:A:O4'	1.79	0.82
25:BA:961:C:C5	25:BA:2031:A:C2	2.67	0.82
25:BA:2785:C:H2'	25:BA:2786:U:C6	2.13	0.82
25:BA:386:G:N3	25:BA:386:G:H2'	1.93	0.82
25:BA:621:A:H8	25:BA:621:A:H3'	1.45	0.82
25:BA:729:G:C3'	25:BA:730:C:H4'	2.08	0.82
25:BA:760:G:O2'	25:BA:761:A:H5'	1.79	0.82
25:BA:775:G:N2	25:BA:787:U:C3'	2.42	0.82
25:BA:853:G:H2'	25:BA:854:G:H8	1.43	0.82
28:BD:236:GLY:O	28:BD:237:GLU:HG2	1.79	0.82
29:BE:154:LYS:O	29:BE:154:LYS:NZ	2.12	0.82
30:BF:46:ARG:HE	30:BF:47:GLY:N	1.76	0.82
31:BG:102:PHE:HD2	31:BG:106:LEU:HD12	1.42	0.82
32:BH:44:VAL:O	32:BH:50:VAL:HA	1.79	0.82
33:BK:2:LYS:HD2	33:BK:39:ALA:HA	1.60	0.82
36:BN:24:VAL:HA	36:BN:39:ILE:HG22	1.59	0.82
41:BS:53:ARG:CB	41:BS:65:LYS:O	2.28	0.82
42:BT:108:GLU:OE1	42:BT:109:LEU:N	2.12	0.82
43:BU:21:ARG:N	43:BU:93:GLU:OE2	2.12	0.82
46:BX:5:MET:CE	46:BX:28:LYS:HB2	2.08	0.82
47:BY:110:GLY:O	47:BY:113:ALA:HB3	1.80	0.82
47:BY:156:LYS:HA	47:BY:156:LYS:HE3	1.60	0.82
47:BY:39:VAL:HG13	47:BY:44:PHE:CD2	2.14	0.82
1:AA:1087:G:H2'	1:AA:1088:G:C8	2.12	0.82
1:AA:1349:A:OP1	12:AL:120:ARG:HB2	1.80	0.82
1:AA:1509:C:H2'	1:AA:1510:U:C6	2.15	0.82
1:AA:173:U:O2	1:AA:197:A:H2	1.62	0.82
1:AA:405:U:O2	1:AA:405:U:H2'	1.79	0.82
1:AA:410:G:N3	1:AA:432:A:N6	2.27	0.82
1:AA:519:C:N4	1:AA:520:A:C2	2.47	0.82
7:AG:166:LYS:HG2	7:AG:178:VAL:CG1	2.10	0.82
7:AG:60:GLU:OE2	7:AG:199:ASN:HB3	1.80	0.82
8:AH:24:ARG:HH11	8:AH:24:ARG:HG2	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:94:ALA:HB1	8:AH:98:THR:HG21	1.62	0.82
9:AI:12:PRO:HG2	9:AI:13:ASN:ND2	1.95	0.82
12:AL:9:ARG:HD2	12:AL:14:VAL:HG22	1.60	0.82
15:AO:33:ARG:HB3	15:AO:85:ILE:CG2	2.09	0.82
19:AS:67:THR:HB	19:AS:70:ALA:H	1.44	0.82
19:AS:57:ARG:HG2	19:AS:79:VAL:CG1	2.09	0.82
20:AT:10:VAL:CG2	20:AT:55:ASP:HB2	2.08	0.82
25:BA:1298:C:H1'	25:BA:1302:A:C8	2.14	0.82
25:BA:134:C:O2'	25:BA:135:G:H5'	1.79	0.82
25:BA:1434:A:H61	25:BA:1558:A:H61	1.26	0.82
25:BA:1675:C:O2	25:BA:1676:A:O4'	1.96	0.82
25:BA:1788:C:C2'	28:BD:222:ARG:HE	1.93	0.82
25:BA:1822:G:H2'	25:BA:1823:G:H8	1.44	0.82
25:BA:1969:A:C4'	25:BA:1970:A:H5'	2.09	0.82
25:BA:1971:A:C8	25:BA:1971:A:C3'	2.60	0.82
25:BA:2014:A:N3	25:BA:2015:A:C2	2.48	0.82
25:BA:945:A:C5	25:BA:2448:A:C6	2.67	0.82
25:BA:452:G:H3'	25:BA:453:C:H5''	1.60	0.82
25:BA:723:G:H2'	25:BA:724:U:H6	1.44	0.82
26:BB:7:G:H4'	40:BR:29:PHE:CE2	2.14	0.82
27:BC:133:PRO:HG2	27:BC:134:ARG:NH1	1.95	0.82
28:BD:54:ARG:HA	28:BD:219:PRO:HD2	1.60	0.82
29:BE:13:ARG:CG	29:BE:22:PRO:HD3	2.02	0.82
30:BF:197:ASP:HA	30:BF:200:GLU:CD	1.99	0.82
30:BF:81:PRO:O	30:BF:83:PHE:N	2.12	0.82
31:BG:74:LYS:CB	31:BG:87:PRO:HG3	2.09	0.82
38:BP:85:LYS:NZ	48:BZ:10:THR:HG21	1.95	0.82
42:BT:46:ALA:CA	42:BT:49:HIS:ND1	2.42	0.82
44:BV:27:LYS:H	44:BV:27:LYS:HD2	1.43	0.82
25:BA:1064:C:H3'	25:BA:1065:U:C6	2.15	0.82
3:AD:19:G:H21	3:AD:57:G:H1'	1.40	0.82
5:AE:127:ILE:HG22	5:AE:128:GLU:H	1.43	0.82
5:AE:95:GLN:HE21	5:AE:148:TYR:HB3	1.44	0.82
9:AI:19:LEU:HD23	9:AI:23:LYS:HZ3	1.44	0.82
12:AL:115:GLY:O	12:AL:117:HIS:N	2.12	0.82
13:AM:79:ARG:HD3	13:AM:80:LYS:N	1.94	0.82
55:B7:23:VAL:HG22	55:B7:47:LYS:O	1.79	0.82
25:BA:1009:A:O2'	42:BT:62:ILE:HD13	1.79	0.82
25:BA:1197:G:C6	25:BA:1198:U:C5	2.67	0.82
25:BA:1689:A:H62	25:BA:1698:A:H2	1.27	0.82
25:BA:1919:A:C2'	25:BA:1920:C:H5'	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1927:A:C6	25:BA:1928:A:N1	2.47	0.82
25:BA:411:G:H21	25:BA:2408:U:H3	1.24	0.82
25:BA:2626:C:C2'	25:BA:2627:G:H8	1.87	0.82
25:BA:2713:A:H5''	25:BA:2714:G:OP2	1.79	0.82
25:BA:2740:A:H2'	25:BA:2741:A:C8	2.14	0.82
25:BA:740:U:O2'	25:BA:741:G:O5'	1.97	0.82
25:BA:981:A:H8	25:BA:982:C:C5	1.98	0.82
28:BD:72:LYS:O	28:BD:74:GLY:N	2.12	0.82
16:AP:7:VAL:CG1	31:BG:140:ILE:HG21	2.08	0.82
31:BG:43:LEU:HB3	31:BG:88:ILE:HG21	1.60	0.82
32:BH:73:ALA:O	32:BH:76:VAL:HG13	1.79	0.82
32:BH:29:PRO:HD3	32:BH:79:VAL:CA	2.09	0.82
35:BM:22:THR:HB	35:BM:61:ARG:HH12	1.44	0.82
37:BO:99:LEU:HD23	37:BO:100:LEU:H	1.43	0.82
37:BO:112:LEU:H	37:BO:128:HIS:CE1	1.98	0.82
25:BA:627:A:H8	37:BO:115:LEU:HD11	1.43	0.82
37:BO:76:LYS:HB3	37:BO:113:LYS:O	1.78	0.82
38:BP:14:ARG:HA	38:BP:14:ARG:NE	1.90	0.82
39:BQ:51:LEU:HD23	39:BQ:66:VAL:HG13	1.59	0.82
41:BS:53:ARG:NH2	41:BS:102:ILE:CG1	2.41	0.82
44:BV:74:ALA:CB	44:BV:105:VAL:HG23	2.08	0.82
47:BY:144:LEU:O	47:BY:174:VAL:HG11	1.80	0.82
48:BZ:38:VAL:CG2	48:BZ:59:LEU:HD13	2.09	0.82
34:BL:89:HIS:O	34:BL:90:LYS:HG2	1.79	0.82
34:BL:99:ILE:HG23	34:BL:103:GLN:HE22	1.45	0.82
1:AA:1229:A:H2'	1:AA:1230:C:H6	1.45	0.82
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.14	0.82
1:AA:309:G:O2'	1:AA:310:G:H5'	1.79	0.82
7:AG:185:PHE:HE2	7:AG:187:ARG:O	1.63	0.82
25:BA:469:G:C2	54:B6:40:TRP:HZ2	1.98	0.82
25:BA:1203:G:C5	25:BA:1240:U:C4	2.67	0.82
25:BA:1265:A:C8	25:BA:1267:U:N3	2.47	0.82
25:BA:1620:G:O2'	25:BA:1621:U:H5'	1.79	0.82
25:BA:1750:G:O2'	25:BA:2860:A:N1	2.11	0.82
25:BA:1935:G:N2	25:BA:1962:C:C2'	2.43	0.82
25:BA:2082:A:H2'	25:BA:2083:G:C8	2.14	0.82
25:BA:2530:A:H3'	25:BA:2531:A:C5'	2.09	0.82
25:BA:834:C:H1'	25:BA:2358:G:C2	2.14	0.82
25:BA:859:G:C2'	25:BA:860:U:H5''	2.10	0.82
27:BC:175:VAL:O	27:BC:188:ASN:HB3	1.80	0.82
28:BD:60:ARG:HA	28:BD:62:TYR:CZ	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:36:ARG:HB3	29:BE:41:LYS:HB2	1.61	0.82
33:BK:33:ARG:HB2	33:BK:35:LEU:HD23	1.62	0.82
35:BM:12:ARG:HD2	35:BM:50:ASP:HA	1.62	0.82
37:BO:37:GLY:O	37:BO:40:SER:HB2	1.80	0.82
37:BO:46:LYS:HZ2	37:BO:50:ARG:HE	1.25	0.82
37:BO:63:PRO:HB2	37:BO:64:LYS:HZ3	1.39	0.82
25:BA:2822:G:OP2	39:BQ:4:LEU:HD11	1.80	0.82
42:BT:83:LEU:O	42:BT:90:VAL:HG22	1.78	0.82
47:BY:73:GLN:O	47:BY:74:VAL:HG23	1.80	0.82
1:AA:520:A:H3'	1:AA:521:G:H5'	1.61	0.82
6:AF:48:TYR:HA	6:AF:52:LEU:CD2	2.10	0.82
20:AT:67:LYS:O	20:AT:68:ARG:HB2	1.79	0.82
25:BA:1784:A:O2'	25:BA:1785:A:C8	2.32	0.82
25:BA:185:U:H2'	25:BA:186:G:C8	2.15	0.82
25:BA:1863:G:H2'	25:BA:1864:U:C6	2.15	0.82
25:BA:2015:A:O4'	25:BA:2015:A:OP2	1.98	0.82
25:BA:2168:G:N2	25:BA:2170:A:H3'	1.95	0.82
25:BA:2305:A:H1'	31:BG:155:MET:N	1.94	0.82
25:BA:447:A:O2'	25:BA:449:A:N6	2.13	0.82
25:BA:482:A:N7	25:BA:506:G:N1	2.27	0.82
25:BA:638:G:H2'	25:BA:639:U:C5'	2.10	0.82
25:BA:693:C:P	28:BD:60:ARG:HH21	2.03	0.82
27:BC:38:ASP:OD2	27:BC:178:ALA:HB3	1.80	0.82
28:BD:9:TYR:CG	28:BD:200:ASP:HB2	2.15	0.82
25:BA:270(P):C:OP2	33:BK:45:LYS:HD3	1.80	0.82
38:BP:130:LYS:NZ	38:BP:130:LYS:HB3	1.94	0.82
25:BA:910:A:C6	38:BP:17:LEU:HD11	2.15	0.82
40:BR:69:VAL:HG12	40:BR:73:LEU:HD21	1.60	0.82
42:BT:48:ALA:HA	42:BT:51:LYS:HD2	1.60	0.82
46:BX:93:GLY:C	46:BX:95:LYS:H	1.83	0.82
47:BY:76:LEU:HD21	47:BY:83:PRO:HD3	1.61	0.82
1:AA:1144:G:H22	1:AA:1146:A:H62	1.25	0.82
1:AA:1306:A:N6	1:AA:1331:G:H1'	1.95	0.82
1:AA:1418:A:N1	1:AA:1483:A:C6	2.48	0.82
1:AA:370:C:O2'	1:AA:371:G:H5'	1.80	0.82
8:AH:81:GLU:HB3	8:AH:90:VAL:CG2	2.10	0.82
21:AU:18:ARG:HH22	21:AU:21:LYS:HB2	1.44	0.82
9:AI:98:LEU:HD21	21:AU:28:GLU:CA	2.10	0.82
22:AV:47:HIS:H	22:AV:62:ILE:HG22	1.44	0.82
50:B2:5:LYS:NZ	50:B2:57:GLU:HB2	1.93	0.82
25:BA:1013:C:H2'	25:BA:1014:U:H6	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1697:G:C5'	25:BA:1698:A:H5'	2.09	0.82
25:BA:397:G:OP1	51:B3:41:PRO:HG3	1.78	0.82
25:BA:740:U:N1	25:BA:1784:A:N7	2.27	0.82
25:BA:783:A:C6	25:BA:785:G:C8	2.67	0.82
27:BC:177:LYS:HB2	27:BC:180:PHE:HB2	1.61	0.82
28:BD:7:LYS:CG	28:BD:25:THR:HG22	2.08	0.82
28:BD:85:ASP:HB2	28:BD:87:ASN:ND2	1.93	0.82
29:BE:154:LYS:CE	29:BE:154:LYS:O	2.28	0.82
29:BE:31:CYS:O	29:BE:33:VAL:N	2.12	0.82
32:BH:11:VAL:CG1	32:BH:11:VAL:O	2.27	0.82
33:BK:32:PRO:HD2	33:BK:33:ARG:CD	2.10	0.82
25:BA:623:G:H3'	37:BO:105:LEU:HD22	1.62	0.82
38:BP:81:VAL:HG12	38:BP:82:ARG:N	1.94	0.82
41:BS:50:ILE:CB	41:BS:66:VAL:HB	2.10	0.82
46:BX:35:TYR:O	46:BX:64:GLU:CB	2.28	0.82
47:BY:177:PRO:HG2	47:BY:178:GLU:H	1.44	0.82
47:BY:29:TYR:O	47:BY:89:PHE:HA	1.80	0.82
25:BA:1063:G:N7	25:BA:1064:C:N4	2.26	0.82
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.80	0.81
1:AA:1206:G:H5'	6:AF:194:GLY:HA2	1.62	0.81
1:AA:1255:G:O2'	1:AA:1258:G:H1'	1.80	0.81
1:AA:622:A:H2'	1:AA:623:C:H5'	1.60	0.81
5:AE:48:MET:HA	5:AE:51:LEU:HD12	1.61	0.81
7:AG:24:GLU:O	7:AG:27:TYR:HB3	1.79	0.81
8:AH:37:ARG:NH1	8:AH:112:LEU:HD22	1.92	0.81
10:AJ:64:GLN:HG3	10:AJ:128:ALA:O	1.80	0.81
17:AQ:22:THR:HG21	17:AQ:33:VAL:O	1.80	0.81
19:AS:59:TRP:CE3	19:AS:59:TRP:HA	2.12	0.81
20:AT:44:ALA:HB2	20:AT:59:ILE:HD13	1.61	0.81
20:AT:52:LYS:HB2	20:AT:52:LYS:HZ2	1.43	0.81
52:B4:15:ARG:HG3	52:B4:16:ARG:H	1.45	0.81
25:BA:2623:G:H21	52:B4:22:HIS:HE1	1.23	0.81
39:BQ:33:ARG:HH21	52:B4:56:LYS:HE3	1.45	0.81
25:BA:1515:C:C6	25:BA:1515:C:P	2.72	0.81
25:BA:2373:G:HO2'	25:BA:2374:C:H6	1.28	0.81
25:BA:2520:C:C2'	25:BA:2521:C:H5'	2.10	0.81
2:AC:75:C:OP1	25:BA:2602:A:OP1	1.98	0.81
25:BA:2805:G:N7	25:BA:2807:G:H8	1.77	0.81
25:BA:475:U:H2'	25:BA:475:U:O2	1.80	0.81
25:BA:565:C:O2'	25:BA:1253:A:C2	2.33	0.81
25:BA:653:A:H5'	25:BA:654:A:O2'	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1799:G:H22	28:BD:157:ARG:HH22	1.28	0.81
30:BF:108:LYS:O	30:BF:111:ALA:HB3	1.79	0.81
16:AP:3:ARG:HH12	31:BG:139:LEU:HD23	1.43	0.81
32:BH:68:THR:HG22	32:BH:72:ILE:CD1	2.11	0.81
35:BM:72:TYR:C	35:BM:72:TYR:HD2	1.83	0.81
38:BP:56:ARG:CZ	38:BP:57:HIS:HB2	2.09	0.81
42:BT:48:ALA:HB3	42:BT:52:ARG:NH2	1.94	0.81
45:BW:33:LYS:C	45:BW:33:LYS:HZ2	1.82	0.81
46:BX:2:ARG:HD2	46:BX:3:VAL:H	1.44	0.81
1:AA:1034:G:H2'	1:AA:1035:A:C8	2.15	0.81
1:AA:194:C:H2'	1:AA:195:A:H5''	1.62	0.81
1:AA:279:A:N3	1:AA:281:G:N2	2.27	0.81
1:AA:363:A:O2'	1:AA:364:A:H5'	1.78	0.81
1:AA:644:G:H4'	11:AK:92:ARG:HH12	1.45	0.81
1:AA:865:A:HO2'	1:AA:918:A:HO2'	1.23	0.81
6:AF:84:ILE:CG1	6:AF:101:LEU:HD22	2.10	0.81
15:AO:43:VAL:HG12	15:AO:44:THR:H	1.45	0.81
16:AP:91:ARG:CB	16:AP:98:VAL:HG13	2.10	0.81
16:AP:82:MET:SD	16:AP:93:ARG:HG3	2.19	0.81
21:AU:72:ARG:O	21:AU:75:ILE:HB	1.79	0.81
24:AX:10:ARG:HA	24:AX:13:ILE:HB	1.61	0.81
45:BW:7:VAL:HG21	49:B1:31:ARG:NH1	1.94	0.81
55:B7:6:THR:O	55:B7:6:THR:HG23	1.80	0.81
25:BA:1499:C:H2'	25:BA:1500:G:H8	1.45	0.81
25:BA:197:A:N6	25:BA:248:G:N2	2.26	0.81
25:BA:2671:A:O2'	25:BA:2672:G:H5'	1.79	0.81
25:BA:2695:C:H2'	25:BA:2696:U:C6	2.15	0.81
25:BA:422:A:N1	25:BA:423:A:C2	2.48	0.81
25:BA:559:G:H4'	25:BA:560:C:OP1	1.81	0.81
25:BA:65:C:H1'	45:BW:66:LEU:HD13	1.61	0.81
30:BF:125:LEU:HD22	30:BF:128:ALA:HB2	1.60	0.81
2:AC:19:G:H21	31:BG:82:LEU:CD1	1.92	0.81
35:BM:70:LYS:HD2	35:BM:86:PRO:CB	2.10	0.81
36:BN:64:ARG:HH22	36:BN:68:GLU:HA	1.45	0.81
38:BP:76:LYS:NZ	38:BP:78:PRO:O	2.13	0.81
41:BS:64:ARG:CZ	41:BS:77:PRO:HA	2.10	0.81
44:BV:16:LYS:H	44:BV:16:LYS:CE	1.91	0.81
44:BV:27:LYS:O	44:BV:71:VAL:HG12	1.80	0.81
47:BY:55:HIS:CB	47:BY:101:PRO:HG3	2.09	0.81
48:BZ:44:ARG:O	48:BZ:77:ARG:HB2	1.80	0.81
33:BK:114:LEU:HA	33:BK:130:TYR:HB3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:979:C:H5''	1:AA:1222:G:O6	1.81	0.81
1:AA:453:A:H62	1:AA:480:U:H3	1.27	0.81
5:AE:69:LEU:HB2	5:AE:159:PRO:CB	2.10	0.81
21:AU:18:ARG:NH2	21:AU:21:LYS:HD3	1.94	0.81
21:AU:72:ARG:HA	21:AU:75:ILE:HD12	1.63	0.81
54:B6:10:ARG:O	54:B6:14:LYS:HG3	1.80	0.81
25:BA:1786:A:H2'	25:BA:1787:A:O5'	1.80	0.81
25:BA:231:C:N4	25:BA:232:G:N2	2.27	0.81
25:BA:2392:A:O3'	55:B7:32:LEU:HD11	1.80	0.81
25:BA:2622:C:O2'	25:BA:2824:C:N4	2.13	0.81
25:BA:263:C:H2'	25:BA:263:C:O2	1.78	0.81
25:BA:33:U:HO2'	25:BA:34:C:H5	1.24	0.81
25:BA:519:U:H5'	25:BA:519:U:H6	1.45	0.81
25:BA:728:G:H1'	25:BA:729:G:C8	2.15	0.81
25:BA:738:G:H2'	25:BA:739:G:H1'	1.61	0.81
25:BA:972:G:C6	25:BA:973:A:N7	2.48	0.81
27:BC:133:PRO:HG2	27:BC:134:ARG:HH12	1.45	0.81
29:BE:106:GLY:HA3	29:BE:196:VAL:CG2	2.08	0.81
30:BF:155:LEU:HA	30:BF:174:VAL:CG2	2.10	0.81
30:BF:185:ASP:HA	30:BF:188:ARG:NH2	1.95	0.81
31:BG:59:GLU:OE1	31:BG:152:LEU:HD22	1.80	0.81
32:BH:33:LEU:HD22	32:BH:75:ALA:HB2	1.62	0.81
36:BN:107:ARG:O	36:BN:109:LYS:HG3	1.78	0.81
38:BP:34:LEU:HA	38:BP:131:ILE:CG1	2.09	0.81
25:BA:1754:C:H5'	41:BS:104:ASN:ND2	1.95	0.81
43:BU:6:LYS:HZ3	43:BU:10:LYS:HD2	1.46	0.81
43:BU:14:VAL:HG11	43:BU:19:LYS:HG3	1.63	0.81
45:BW:14:SER:CB	45:BW:16:LYS:HE3	2.10	0.81
1:AA:1157:A:C8	1:AA:1181:G:N2	2.48	0.81
1:AA:1479:C:O2'	1:AA:1480:G:H5'	1.80	0.81
5:AE:16:HIS:HA	5:AE:204:ASN:HB3	1.61	0.81
10:AJ:118:VAL:O	10:AJ:121:ALA:HB3	1.79	0.81
10:AJ:27:ILE:HG12	10:AJ:43:PHE:CD1	2.14	0.81
25:BA:95:G:H1'	49:B1:42:ASN:HD22	1.46	0.81
49:B1:45:ILE:HG13	49:B1:46:ARG:H	1.46	0.81
55:B7:16:ILE:HA	55:B7:21:LYS:O	1.80	0.81
55:B7:28:GLY:O	55:B7:29:LYS:HG2	1.80	0.81
25:BA:84:A:H1'	25:BA:103:A:N6	1.96	0.81
25:BA:1469:A:H2'	25:BA:1470:G:H5'	1.62	0.81
25:BA:1915:U:P	25:BA:1915:U:H3'	2.20	0.81
25:BA:1996:C:C5'	25:BA:1996:C:H6	1.92	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2346:A:H1'	25:BA:2383:G:C8	2.15	0.81
25:BA:2524:G:C2	25:BA:2525:G:H1'	2.16	0.81
25:BA:270(I):G:H2'	25:BA:270(J):G:O4'	1.81	0.81
25:BA:498:G:H2'	25:BA:499:U:H5'	1.62	0.81
27:BC:59:ARG:CZ	27:BC:164:ARG:HH11	1.94	0.81
33:BK:2:LYS:HZ2	33:BK:39:ALA:HB1	1.46	0.81
36:BN:90:GLN:NE2	36:BN:110:GLY:O	2.12	0.81
36:BN:4:PRO:HG2	36:BN:5:GLN:H	1.45	0.81
41:BS:65:LYS:NZ	41:BS:75:ILE:HD13	1.95	0.81
41:BS:70:VAL:HG23	41:BS:74:ARG:HD3	1.63	0.81
42:BT:48:ALA:O	42:BT:52:ARG:HG3	1.78	0.81
45:BW:33:LYS:H	45:BW:77:LYS:HZ3	1.27	0.81
47:BY:127:LYS:HD3	47:BY:165:VAL:HG23	1.59	0.81
47:BY:57:ILE:CG2	47:BY:58:VAL:N	2.43	0.81
34:BL:10:LEU:HD21	34:BL:57:ILE:CG1	2.09	0.81
34:BL:75:SER:O	34:BL:78:ILE:HB	1.81	0.81
47:BY:176:PRO:CB	47:BY:179:ASP:HA	2.09	0.81
1:AA:1192:C:H5	1:AA:1193:G:C8	1.98	0.81
6:AF:205:GLY:O	6:AF:206:GLU:HB2	1.79	0.81
7:AG:63:LYS:HG2	7:AG:64:LEU:N	1.96	0.81
13:AM:26:ALA:HB1	13:AM:84:GLN:OE1	1.79	0.81
15:AO:55:VAL:O	15:AO:70:ILE:HD11	1.80	0.81
16:AP:16:ASP:CB	16:AP:30:ALA:HB1	2.11	0.81
51:B3:4:GLY:HA2	51:B3:11:PRO:HB3	1.63	0.81
52:B4:58:LEU:O	52:B4:59:GLU:HB2	1.81	0.81
25:BA:1119:C:H5'	25:BA:1120:G:OP2	1.80	0.81
25:BA:1303:G:N7	25:BA:1304:C:C4	2.49	0.81
25:BA:2733:A:H2'	25:BA:2734:A:O5'	1.79	0.81
25:BA:744:G:H2'	25:BA:745:G:C8	2.15	0.81
25:BA:776:G:H1'	25:BA:793:A:C2	2.15	0.81
26:BB:14:U:C1'	26:BB:107:U:H1'	2.10	0.81
27:BC:103:ILE:HD12	27:BC:127:LEU:HD11	1.62	0.81
28:BD:176:ARG:CZ	28:BD:182:LEU:HD21	2.10	0.81
30:BF:157:VAL:CG2	30:BF:194:MET:HB3	2.05	0.81
30:BF:200:GLU:OE1	30:BF:201:VAL:HG23	1.79	0.81
31:BG:35:GLU:O	31:BG:160:VAL:HB	1.80	0.81
31:BG:36:LYS:HZ1	31:BG:38:VAL:HG13	1.44	0.81
31:BG:57:ALA:HB2	31:BG:68:PRO:O	1.81	0.81
31:BG:47:LYS:CE	31:BG:73:ALA:HB2	2.10	0.81
33:BK:40:THR:CG2	33:BK:42:SER:HB3	2.10	0.81
36:BN:68:GLU:CB	36:BN:76:ALA:O	2.22	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:134:ARG:HE	38:BP:137:TYR:HA	1.46	0.81
38:BP:98:LYS:N	38:BP:98:LYS:HZ2	1.78	0.81
39:BQ:48:VAL:HA	39:BQ:51:LEU:HD13	1.63	0.81
40:BR:40:ILE:HG22	40:BR:41:ASP:N	1.95	0.81
41:BS:32:TYR:HD2	41:BS:88:ILE:HA	1.44	0.81
41:BS:53:ARG:HH21	41:BS:102:ILE:HG13	1.45	0.81
41:BS:97:ALA:O	41:BS:99:LEU:HG	1.80	0.81
42:BT:86:ALA:HB1	42:BT:89:GLU:O	1.79	0.81
43:BU:11:GLN:NE2	43:BU:24:LYS:NZ	2.28	0.81
43:BU:11:GLN:NE2	43:BU:24:LYS:HZ3	1.76	0.81
42:BT:47:TYR:HE1	43:BU:77:ALA:HB2	1.46	0.81
45:BW:17:ALA:HB1	45:BW:27:THR:OG1	1.81	0.81
45:BW:84:ALA:HB3	45:BW:85:PRO:HD3	1.63	0.81
46:BX:12:THR:HG22	46:BX:13:VAL:N	1.95	0.81
46:BX:29:GLU:CD	46:BX:34:LYS:HB2	2.00	0.81
34:BL:67:PHE:CD2	34:BL:68:VAL:HG23	2.16	0.81
1:AA:113:G:C1'	1:AA:354:G:H5'	2.10	0.81
1:AA:123:C:O2'	1:AA:290:C:C1'	2.25	0.81
1:AA:754:C:H2'	1:AA:755:G:OP1	1.80	0.81
1:AA:797:C:O2'	1:AA:798:G:H5'	1.80	0.81
14:AN:40:ILE:O	14:AN:41:THR:HG23	1.81	0.81
17:AQ:24:CYS:HB2	17:AQ:40:CYS:N	1.95	0.81
25:BA:1135:C:H2'	25:BA:1136:G:H8	1.44	0.81
25:BA:1518:C:H3'	25:BA:1519:G:C5'	2.09	0.81
25:BA:1543:A:H3'	25:BA:1544:C:H4'	1.61	0.81
25:BA:1579:A:N6	25:BA:1581:G:N2	2.28	0.81
25:BA:1270:C:O2'	25:BA:1648:C:OP2	1.99	0.81
25:BA:1682:G:C4	25:BA:1757:U:H1'	2.15	0.81
25:BA:1935:G:H2'	25:BA:1962:C:C4	2.15	0.81
25:BA:231:C:H42	25:BA:232:G:N2	1.77	0.81
25:BA:270(B):A:H1'	25:BA:270(C):C:C5	2.15	0.81
25:BA:2749:A:C4'	32:BH:62:LYS:HG3	2.10	0.81
25:BA:344:G:H2'	25:BA:345:A:O4'	1.80	0.81
25:BA:763:G:H5'	28:BD:211:ARG:HH12	1.42	0.81
25:BA:974(A):C:O2	25:BA:1186:G:N1	2.13	0.81
28:BD:48:ARG:HB3	28:BD:48:ARG:NH1	1.95	0.81
29:BE:12:THR:HG21	29:BE:19:ARG:NH2	1.96	0.81
30:BF:18:ARG:C	30:BF:19:GLU:HG3	1.95	0.81
30:BF:6:VAL:N	30:BF:20:LEU:CD1	2.44	0.81
35:BM:128:HIS:N	35:BM:129:PRO:HD2	1.96	0.81
38:BP:101:ARG:HG3	38:BP:101:ARG:NH1	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:8:LYS:HE3	41:BS:2:ASN:OD1	1.79	0.81
36:BN:77:ILE:CG2	41:BS:65:LYS:HE2	2.11	0.81
43:BU:69:LYS:H	43:BU:92:THR:HB	1.46	0.81
45:BW:29:TRP:CZ3	45:BW:78:LYS:HB2	2.16	0.81
33:BK:59:ALA:HA	33:BK:62:LYS:CD	2.10	0.81
26:BB:1:U:H6	26:BB:1:U:H5''	1.46	0.81
9:AI:28:ARG:HG2	9:AI:28:ARG:HH11	1.45	0.81
1:AA:1239:A:H8	1:AA:1241:G:H1'	1.45	0.81
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.45	0.81
1:AA:507:C:OP2	1:AA:508:C:H3'	1.81	0.81
1:AA:580:U:H3'	1:AA:581:G:H8	1.43	0.81
1:AA:873:A:OP1	1:AA:873:A:C8	2.33	0.81
3:AD:47:U:H2'	3:AD:48:C:H5''	1.61	0.81
7:AG:65:ARG:HB2	7:AG:75:PHE:HE2	1.44	0.81
9:AI:79:LEU:HD12	9:AI:88:VAL:HG11	1.61	0.81
11:AK:36:LEU:CD1	11:AK:59:LEU:HD22	2.10	0.81
16:AP:77:ASN:O	16:AP:81:LEU:HD13	1.79	0.81
20:AT:85:VAL:HG12	20:AT:89:LEU:HD11	1.62	0.81
23:AW:44:ALA:CB	23:AW:91:LEU:HD12	2.10	0.81
50:B2:45:GLY:O	50:B2:48:GLU:HG2	1.80	0.81
55:B7:30:ARG:O	55:B7:32:LEU:HG	1.80	0.81
25:BA:1911:U:C5	25:BA:1913:A:N6	2.47	0.81
25:BA:2028:U:O2	25:BA:2033:A:N6	2.11	0.81
25:BA:2458:G:O2'	25:BA:2459:A:H5'	1.79	0.81
25:BA:270(I):G:N3	25:BA:270(J):G:H1'	1.96	0.81
25:BA:2838:G:O2'	39:BQ:45:ARG:NH1	2.13	0.81
25:BA:2850:A:C2	25:BA:2869:G:H4'	2.14	0.81
25:BA:598:G:H4'	37:BO:12:ALA:HB3	1.63	0.81
25:BA:620:G:H5'	25:BA:621:A:OP1	1.81	0.81
25:BA:806:C:C2	25:BA:807:U:H5	1.99	0.81
28:BD:161:THR:HG22	28:BD:195:ALA:HB1	1.63	0.81
29:BE:81:ILE:CG2	29:BE:82:ARG:HG2	2.11	0.81
30:BF:158:THR:HB	30:BF:160:ASN:ND2	1.94	0.81
31:BG:119:GLY:HA3	31:BG:180:PHE:CE2	2.16	0.81
32:BH:149:ARG:NH2	32:BH:164:TYR:HB3	1.94	0.81
33:BK:5:LEU:HG	33:BK:17:GLN:C	2.01	0.81
35:BM:6:PRO:HB3	35:BM:39:ARG:HH21	1.43	0.81
37:BO:128:HIS:HA	37:BO:147:LEU:HD23	1.61	0.81
37:BO:56:SER:HB3	55:B7:13:ARG:NE	1.94	0.81
41:BS:103:ARG:O	41:BS:105:LEU:N	2.13	0.81
25:BA:18:C:OP1	42:BT:26:GLY:HA3	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:6:LYS:HG2	43:BU:12:TYR:N	1.95	0.81
43:BU:35:LEU:O	43:BU:61:VAL:HG13	1.79	0.81
44:BV:75:TYR:O	44:BV:104:THR:HG22	1.81	0.81
44:BV:90:ARG:HH21	44:BV:90:ARG:CA	1.94	0.81
33:BK:91:SER:HB2	33:BK:119:PRO:HB2	1.62	0.81
1:AA:1108:G:H4'	1:AA:1191:A:H1'	1.63	0.81
1:AA:974:A:H61	1:AA:1201:A:H2	1.28	0.81
1:AA:68:G:C5'	1:AA:171:A:H1'	2.10	0.81
1:AA:186(B):C:H4'	23:AW:89:ARG:HH12	1.44	0.81
16:AP:60:VAL:HG13	16:AP:64:TRP:HB2	1.63	0.81
17:AQ:42:ILE:HA	17:AQ:45:ARG:HG2	1.61	0.81
18:AR:75:PRO:HA	18:AR:78:TYR:HB2	1.62	0.81
39:BQ:99:LYS:HD3	52:B4:43:HIS:CG	2.15	0.81
25:BA:1392:A:H2'	25:BA:1393:A:C8	2.16	0.81
25:BA:1710:C:H2'	25:BA:1711:C:H6	1.46	0.81
25:BA:2453:A:O2'	25:BA:2572:A:H1'	1.79	0.81
25:BA:704:G:H1	25:BA:726:G:H1'	1.46	0.81
25:BA:728:G:H1'	25:BA:729:G:H8	1.44	0.81
25:BA:808:G:H2'	25:BA:809:G:H8	1.43	0.81
28:BD:54:ARG:CB	28:BD:218:ARG:HD2	2.11	0.81
29:BE:59:VAL:HB	29:BE:62:PRO:CG	2.10	0.81
30:BF:132:VAL:HG22	30:BF:135:LYS:HB3	1.63	0.81
30:BF:200:GLU:OE1	30:BF:201:VAL:N	2.14	0.81
33:BK:7:GLU:H	33:BK:8:PRO:HD3	1.43	0.81
36:BN:97:ARG:CZ	36:BN:98:VAL:N	2.44	0.81
37:BO:46:LYS:HZ3	37:BO:50:ARG:NH1	1.79	0.81
42:BT:40:PHE:HB3	43:BU:78:LYS:NZ	1.95	0.81
42:BT:94:ASN:HA	42:BT:97:ASP:CG	2.01	0.81
42:BT:98:LEU:HD22	42:BT:101:ARG:HD2	1.61	0.81
42:BT:89:GLU:CG	43:BU:52:VAL:HG23	2.08	0.81
25:BA:2365:G:H4'	48:BZ:60:PHE:CE1	2.14	0.81
34:BL:79:ARG:NH1	34:BL:87:GLY:HA2	1.96	0.81
1:AA:1196:U:C5'	1:AA:1197:G:H5'	2.11	0.81
1:AA:1318:A:O2'	22:AV:37:ARG:HB3	1.81	0.81
1:AA:1347:G:O2'	1:AA:1348:U:OP2	1.99	0.81
1:AA:14:U:H2'	1:AA:16:A:OP2	1.80	0.81
1:AA:497:U:H2'	1:AA:497:U:O2	1.79	0.81
1:AA:975:A:O2'	1:AA:976:G:OP2	1.99	0.81
6:AF:156:ARG:HB2	6:AF:196:LEU:HD13	1.63	0.81
7:AG:100:ARG:HB2	7:AG:103:ASN:HB2	1.61	0.81
10:AJ:31:MET:HB2	10:AJ:39:ALA:HB2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:23:ARG:NE	17:AQ:30:ALA:HB2	1.96	0.81
17:AQ:47:LEU:O	17:AQ:50:LYS:HB2	1.80	0.81
51:B3:56:VAL:HB	51:B3:61:ARG:NE	1.96	0.81
56:B8:19:ARG:O	56:B8:22:ARG:HG3	1.80	0.81
25:BA:120:U:H2'	25:BA:120:U:O2	1.79	0.81
25:BA:1445:C:H2'	25:BA:1446:C:C5	2.14	0.81
25:BA:2426:A:H3'	25:BA:2427:C:C5'	2.11	0.81
25:BA:2459:A:N7	25:BA:2493:U:O4	2.14	0.81
25:BA:2463:C:H2'	25:BA:2464:C:H5'	1.63	0.81
25:BA:2809:A:H4'	25:BA:2811:G:N7	1.95	0.81
25:BA:533:G:H2'	25:BA:534:U:O4'	1.79	0.81
25:BA:819:A:H2'	25:BA:820:A:C8	2.16	0.81
26:BB:7:G:H4'	40:BR:29:PHE:HZ	1.42	0.81
28:BD:133:LEU:HB3	28:BD:136:ILE:HD11	1.63	0.81
28:BD:54:ARG:CB	28:BD:218:ARG:HB3	2.11	0.81
31:BG:139:LEU:HB3	31:BG:142:PRO:HB3	1.63	0.81
36:BN:121:VAL:HA	41:BS:70:VAL:HG12	1.62	0.81
43:BU:62:LEU:CD2	43:BU:99:ILE:H	1.94	0.81
44:BV:33:ARG:NH2	44:BV:37:ARG:HB3	1.96	0.81
28:BD:273:ARG:CZ	28:BD:273:ARG:HB2	2.09	0.81
1:AA:1363:A:N3	1:AA:1365:G:C6	2.49	0.81
1:AA:1435:G:H2'	1:AA:1436:U:H5	1.42	0.81
1:AA:598:U:H4'	11:AK:94:TYR:CD2	2.16	0.81
1:AA:622:A:H2'	1:AA:623:C:C5'	2.10	0.81
2:AC:40:C:H2'	2:AC:41:C:C5'	2.09	0.81
3:AD:23:A:H2'	3:AD:24:G:H8	1.45	0.81
3:AD:18:G:H4'	3:AD:60:U:N3	1.96	0.81
7:AG:153:ARG:HB3	7:AG:181:MET:HE3	1.63	0.81
10:AJ:86:GLN:HB2	10:AJ:148:ASN:ND2	1.96	0.81
15:AO:24:VAL:HG13	15:AO:98:TYR:CE2	2.15	0.81
18:AR:34:LEU:CG	18:AR:35:ARG:N	2.44	0.81
21:AU:86:VAL:O	21:AU:87:ARG:HB2	1.80	0.81
56:B8:19:ARG:HG2	56:B8:24:TYR:HB2	1.62	0.81
25:BA:1203:G:C6	25:BA:1241:A:C2	2.67	0.81
25:BA:1207:C:OP2	25:BA:1207:C:C6	2.32	0.81
25:BA:1224:G:O6	25:BA:1225:C:C4	2.34	0.81
25:BA:1729:A:N6	25:BA:1731:G:H1	1.76	0.81
25:BA:2238:G:H1'	25:BA:2240:C:H5	1.45	0.81
25:BA:2253:G:H2'	25:BA:2254:C:C6	2.16	0.81
25:BA:945:A:C4	25:BA:2448:A:N1	2.49	0.81
25:BA:2494:G:C2'	25:BA:2495:G:H5'	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2616:C:H2'	25:BA:2617:C:C6	2.14	0.81
25:BA:629:G:OP1	55:B7:17:THR:HG22	1.81	0.81
25:BA:2176:A:O2'	27:BC:215:THR:HG21	1.81	0.81
28:BD:133:LEU:HB2	28:BD:187:GLY:HA2	1.63	0.81
28:BD:206:LEU:N	28:BD:206:LEU:CD2	2.43	0.81
28:BD:80:ALA:HB3	28:BD:94:LEU:O	1.81	0.81
29:BE:96:PHE:O	29:BE:175:VAL:HG11	1.80	0.81
29:BE:49:LEU:HD13	29:BE:76:ARG:CG	2.11	0.81
30:BF:158:THR:HB	30:BF:160:ASN:HD21	1.46	0.81
32:BH:103:LEU:HD13	32:BH:115:VAL:HG11	1.63	0.81
33:BK:1:MET:O	33:BK:3:VAL:HG23	1.80	0.81
33:BK:7:GLU:HB3	33:BK:12:LEU:HD23	1.63	0.81
37:BO:122:PRO:CB	37:BO:138:LEU:N	2.43	0.81
38:BP:23:GLY:H	38:BP:99:PRO:HG3	1.46	0.81
40:BR:76:LYS:HG2	40:BR:77:ALA:N	1.96	0.81
46:BX:13:VAL:HA	46:BX:73:ARG:NH1	1.96	0.81
46:BX:65:ALA:HB3	46:BX:66:PRO:HD3	1.61	0.81
1:AA:1472:U:O2'	1:AA:1473:A:H5'	1.79	0.81
1:AA:17:U:H2'	1:AA:18:C:C6	2.16	0.81
1:AA:301:G:N2	1:AA:302:G:H1'	1.95	0.81
1:AA:43:C:H5''	19:AS:12:LYS:CB	2.11	0.81
1:AA:486:U:H2'	1:AA:486:U:O2	1.79	0.81
1:AA:570:G:H5'	1:AA:820:U:H1'	1.63	0.81
6:AF:123:GLN:HB3	6:AF:128:PHE:CE2	2.16	0.81
1:AA:755:G:N3	11:AK:1:MET:HE1	1.95	0.81
14:AN:21:ILE:HA	14:AN:30:VAL:HG22	1.63	0.81
20:AT:67:LYS:HA	20:AT:70:ARG:HH22	1.44	0.81
25:BA:72:U:C1'	49:B1:56:LEU:HD23	2.10	0.81
50:B2:28:LEU:CA	50:B2:33:GLN:HE22	1.92	0.81
25:BA:458:G:H2'	54:B6:40:TRP:NE1	1.96	0.81
25:BA:1143:A:O2'	25:BA:1144:G:O5'	1.98	0.81
25:BA:1206:G:H3'	25:BA:1206:G:H8	1.44	0.81
25:BA:564:C:O2'	25:BA:1252:G:O6	1.98	0.81
25:BA:1399:C:H2'	25:BA:1400:G:H8	1.46	0.81
25:BA:146:G:H3'	25:BA:147:U:H5''	1.60	0.81
25:BA:2744:G:O2'	25:BA:2745:C:H5'	1.81	0.81
25:BA:324:A:C2	25:BA:325:G:C4	2.68	0.81
28:BD:123:ALA:HB1	28:BD:129:ASN:HB3	1.61	0.81
28:BD:37:LEU:CD2	28:BD:63:ARG:HA	2.09	0.81
29:BE:178:GLU:O	29:BE:180:ASN:N	2.13	0.81
37:BO:126:VAL:HA	37:BO:146:VAL:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:102:GLU:OE1	39:BQ:103:ARG:HG2	1.79	0.81
39:BQ:44:LEU:HD13	39:BQ:48:VAL:HG23	1.61	0.81
42:BT:88:ILE:HG22	43:BU:55:ALA:CB	2.10	0.81
43:BU:61:VAL:O	43:BU:62:LEU:HD23	1.81	0.81
25:BA:1187:G:H5''	43:BU:83:ARG:HH12	1.45	0.81
1:AA:1094:G:H2'	1:AA:1108:G:H22	1.45	0.80
1:AA:1178:G:N2	1:AA:1180:A:H3'	1.96	0.80
1:AA:1321:C:C4	1:AA:1322:C:H2'	2.16	0.80
1:AA:1459:C:P	23:AW:27:LYS:HZ3	2.04	0.80
1:AA:627:G:O2'	1:AA:628:G:H5'	1.81	0.80
1:AA:640:A:C2'	1:AA:641:U:H5'	2.10	0.80
1:AA:986:A:H2'	1:AA:987:G:C8	2.15	0.80
5:AE:21:ARG:HD2	5:AE:23:ARG:HD2	1.62	0.80
1:AA:426:G:H5''	7:AG:45:GLN:NE2	1.96	0.80
7:AG:58:LEU:HD13	7:AG:59:ARG:N	1.96	0.80
9:AI:62:TRP:CZ2	9:AI:64:GLN:HB2	2.14	0.80
13:AM:28:ARG:HA	13:AM:33:GLN:HA	1.63	0.80
16:AP:46:LYS:HG3	16:AP:47:ASP:OD1	1.80	0.80
1:AA:1049:U:C5	17:AQ:3:ARG:HB2	2.16	0.80
53:B5:15:GLU:CD	53:B5:21:TYR:HB3	2.02	0.80
25:BA:1872:A:C2'	25:BA:1878:G:H5'	2.11	0.80
25:BA:1935:G:H22	25:BA:1962:C:H2'	1.45	0.80
25:BA:227:A:N6	25:BA:2407:G:C8	2.49	0.80
25:BA:2581:G:C6	25:BA:2610:C:H2'	2.15	0.80
25:BA:27:G:N2	25:BA:512:G:H2'	1.94	0.80
25:BA:371:A:C5'	25:BA:423:A:N7	2.39	0.80
25:BA:479:A:H1'	25:BA:480:A:C8	2.17	0.80
25:BA:529:A:C5	25:BA:2042:A:H2	1.99	0.80
25:BA:919:G:C4	25:BA:920:G:C8	2.69	0.80
25:BA:9:U:O2	25:BA:9:U:H2'	1.78	0.80
27:BC:101:GLN:HA	27:BC:104:LEU:HD23	1.62	0.80
28:BD:7:LYS:NZ	28:BD:91:ARG:NH2	2.18	0.80
31:BG:163:ALA:HB1	31:BG:169:ALA:CA	2.10	0.80
38:BP:31:ASP:OD2	38:BP:134:ARG:HB3	1.81	0.80
42:BT:69:CYS:SG	42:BT:70:ARG:HG3	2.22	0.80
42:BT:89:GLU:HB3	43:BU:51:VAL:C	2.02	0.80
44:BV:7:ALA:HB3	44:BV:103:ILE:CD1	2.11	0.80
46:BX:2:ARG:CD	46:BX:3:VAL:HG23	2.11	0.80
1:AA:1329:A:OP1	16:AP:29:ARG:HG2	1.81	0.80
1:AA:198:G:N2	1:AA:199:G:C4	2.50	0.80
1:AA:383:A:H2'	1:AA:384:G:C5'	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:673:G:H5''	9:AI:87:ARG:NH1	1.96	0.80
7:AG:104:VAL:HA	7:AG:107:ARG:HB2	1.61	0.80
7:AG:155:LEU:HB2	7:AG:158:ILE:HG12	1.63	0.80
13:AM:50:ILE:HB	17:AQ:41:ARG:HE	1.46	0.80
14:AN:15:ALA:C	14:AN:77:MET:HG2	2.02	0.80
49:B1:2:ARG:O	49:B1:5:LEU:CB	2.29	0.80
25:BA:1024:G:C6	25:BA:1025:G:N7	2.49	0.80
25:BA:1020:A:H1'	25:BA:1140:C:N3	1.97	0.80
25:BA:1180:C:H2'	25:BA:1181:C:H6	1.43	0.80
25:BA:13:A:H61	25:BA:525:U:H2'	1.46	0.80
25:BA:1813:G:H2'	28:BD:52:ARG:HH11	1.42	0.80
25:BA:1820:U:C2	28:BD:202:LYS:HG2	2.15	0.80
25:BA:192:C:H5''	25:BA:193:U:OP2	1.81	0.80
25:BA:2247:A:O2'	25:BA:2248:C:H5'	1.80	0.80
25:BA:2434:A:O2'	25:BA:2435:A:H5''	1.80	0.80
25:BA:2580:U:C5	25:BA:2581:G:N7	2.49	0.80
25:BA:657:U:H2'	25:BA:658:C:C6	2.15	0.80
25:BA:68:G:H2'	25:BA:69:C:H6	1.42	0.80
25:BA:192:C:O2	25:BA:802:A:H1'	1.81	0.80
25:BA:886:C:H5''	25:BA:887:A:OP1	1.79	0.80
27:BC:22:ILE:HG21	27:BC:190:ARG:NH2	1.96	0.80
30:BF:33:LEU:HD12	30:BF:34:TRP:N	1.94	0.80
30:BF:6:VAL:HG13	30:BF:20:LEU:HD11	1.62	0.80
33:BK:6:LEU:HD13	33:BK:7:GLU:OE1	1.80	0.80
35:BM:30:ILE:O	35:BM:34:LEU:CD1	2.28	0.80
37:BO:89:ALA:C	37:BO:125:VAL:HG22	2.00	0.80
38:BP:110:THR:O	38:BP:111:GLU:HB2	1.81	0.80
43:BU:67:GLY:O	43:BU:93:GLU:O	1.99	0.80
46:BX:49:VAL:CG2	46:BX:51:VAL:HB	2.11	0.80
33:BK:68:LEU:CD2	33:BK:107:VAL:HG11	2.11	0.80
34:BL:13:PRO:HB2	34:BL:16:LYS:HD3	1.64	0.80
1:AA:1181:G:N7	1:AA:1182:G:N3	2.30	0.80
1:AA:607:A:O2'	1:AA:608:A:H5'	1.81	0.80
2:AC:44:A:O2'	2:AC:45:G:H5'	1.81	0.80
5:AE:61:LEU:CA	5:AE:64:ARG:HH11	1.95	0.80
9:AI:79:LEU:HD12	9:AI:88:VAL:CG1	2.12	0.80
14:AN:29:ILE:HG22	14:AN:44:SER:OG	1.81	0.80
14:AN:95:ILE:O	14:AN:98:LEU:HB2	1.80	0.80
15:AO:27:LEU:HD23	15:AO:33:ARG:CD	2.11	0.80
15:AO:47:LYS:N	15:AO:48:PRO:CD	2.43	0.80
15:AO:39:VAL:HB	15:AO:57:LYS:HB2	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:85:ILE:HD11	15:AO:98:TYR:CB	2.11	0.80
13:AM:50:ILE:HD12	17:AQ:41:ARG:NH2	1.95	0.80
18:AR:7:GLU:CG	18:AR:10:LYS:HE3	2.11	0.80
25:BA:1186:G:C8	25:BA:1187:G:N7	2.50	0.80
25:BA:296:C:H6	25:BA:338:G:N2	1.77	0.80
25:BA:322:A:O4'	25:BA:341:G:H5'	1.81	0.80
25:BA:528:A:N6	25:BA:2042:A:C8	2.48	0.80
25:BA:627:A:N6	25:BA:636:G:O2'	2.13	0.80
26:BB:43:C:O2	31:BG:95:ARG:HB2	1.81	0.80
27:BC:161:ILE:N	27:BC:161:ILE:HD13	1.97	0.80
27:BC:180:PHE:HB3	27:BC:185:LEU:HD21	1.62	0.80
27:BC:212:VAL:HG12	27:BC:224:ILE:HG13	1.62	0.80
30:BF:155:LEU:HA	30:BF:174:VAL:HG22	1.63	0.80
31:BG:16:ARG:HH21	31:BG:16:ARG:HG3	1.44	0.80
32:BH:149:ARG:O	32:BH:153:LYS:HB2	1.81	0.80
36:BN:34:THR:HG22	36:BN:35:VAL:H	1.45	0.80
36:BN:18:LYS:HZ3	36:BN:44:LYS:CE	1.94	0.80
37:BO:127:ALA:HB3	37:BO:130:PHE:CE2	2.17	0.80
37:BO:49:ARG:CG	37:BO:49:ARG:HH21	1.94	0.80
38:BP:25:ASP:HB3	38:BP:102:VAL:HG12	1.61	0.80
38:BP:37:LEU:N	38:BP:129:THR:HG22	1.97	0.80
39:BQ:8:ARG:O	39:BQ:9:LYS:HG3	1.81	0.80
43:BU:79:VAL:HG12	43:BU:81:TYR:CD1	2.16	0.80
46:BX:97:ARG:NH2	46:BX:101:LYS:HD3	1.95	0.80
34:BL:111:LYS:C	34:BL:113:PRO:HD2	2.01	0.80
32:BH:25:LYS:HD3	32:BH:27:LYS:HD2	1.61	0.80
1:AA:1256:A:H61	1:AA:1278:U:C2'	1.95	0.80
1:AA:250:A:H2	1:AA:274:A:N1	1.78	0.80
1:AA:628:G:H2'	1:AA:629:G:H8	1.45	0.80
5:AE:213:LEU:O	5:AE:216:SER:HB3	1.81	0.80
7:AG:60:GLU:OE2	7:AG:202:LEU:HB2	1.81	0.80
7:AG:83:SER:N	7:AG:89:THR:HG23	1.95	0.80
1:AA:1118:C:OP1	12:AL:104:ARG:HG3	1.82	0.80
15:AO:101:VAL:CG2	15:AO:104:VAL:HG21	2.11	0.80
25:BA:1131:G:H4'	25:BA:1132:A:OP1	1.80	0.80
25:BA:1130:U:O2'	25:BA:1131:G:OP1	1.99	0.80
25:BA:1570:A:C2	25:BA:1571:A:N7	2.50	0.80
25:BA:1665:A:C2	25:BA:1666:G:C4	2.69	0.80
25:BA:1773:A:N3	25:BA:1977:A:N6	2.30	0.80
25:BA:2375:G:H21	25:BA:2378:A:N6	1.80	0.80
25:BA:247:G:H4'	25:BA:386:G:N3	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2644:G:N1	25:BA:2645:G:N2	2.29	0.80
25:BA:2731:G:N2	25:BA:2732:G:C2	2.49	0.80
25:BA:534:U:O2'	42:BT:49:HIS:CD2	2.33	0.80
27:BC:10:LEU:CD1	27:BC:13:LYS:HD2	2.10	0.80
28:BD:136:ILE:HG21	28:BD:165:ILE:HG21	1.62	0.80
28:BD:225:ALA:HB3	28:BD:231:HIS:CE1	2.16	0.80
25:BA:1804:C:H4'	28:BD:250:TRP:CZ2	2.17	0.80
30:BF:158:THR:HG21	30:BF:195:ASP:HB2	1.64	0.80
35:BM:10:GLU:HB3	35:BM:39:ARG:NH1	1.97	0.80
35:BM:46:VAL:HG12	35:BM:47:ALA:H	1.47	0.80
37:BO:15:ARG:CZ	37:BO:16:ARG:HB2	2.12	0.80
40:BR:9:ARG:NH1	40:BR:9:ARG:CB	2.42	0.80
42:BT:74:LEU:HD22	42:BT:78:THR:CG2	2.05	0.80
44:BV:41:LYS:NZ	44:BV:41:LYS:HB3	1.96	0.80
25:BA:64:A:O2'	45:BW:71:GLY:CA	2.30	0.80
33:BK:93:THR:HG22	33:BK:96:ASP:H	1.47	0.80
1:AA:1005:A:H3'	1:AA:1006:C:C6	2.15	0.80
1:AA:1034:G:H2'	1:AA:1035:A:H8	1.44	0.80
1:AA:1200:C:C5'	1:AA:1202:G:OP1	2.28	0.80
1:AA:1378:C:H2'	1:AA:1378:C:O2	1.81	0.80
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.46	0.80
1:AA:611:A:N6	1:AA:629:G:H1	1.80	0.80
1:AA:800:G:H8	1:AA:800:G:O5'	1.64	0.80
2:AC:74:C:O3'	25:BA:2602:A:OP1	2.00	0.80
5:AE:223:ILE:HA	5:AE:226:ARG:HE	1.47	0.80
13:AM:32:ALA:HB2	13:AM:75:ILE:O	1.80	0.80
14:AN:61:ALA:HB1	14:AN:94:ALA:CB	2.09	0.80
15:AO:41:ARG:HH22	15:AO:57:LYS:HE3	1.45	0.80
19:AS:73:LEU:HD13	19:AS:73:LEU:C	2.01	0.80
1:AA:468:A:P	19:AS:75:ARG:HH22	2.03	0.80
20:AT:57:VAL:HA	20:AT:77:VAL:HG23	1.63	0.80
25:BA:966:G:C1'	25:BA:2267:A:N6	2.41	0.80
25:BA:262:A:O2'	25:BA:263:C:H5'	1.82	0.80
25:BA:2848:G:H22	25:BA:2867:G:C1'	1.92	0.80
25:BA:475:U:H4'	25:BA:510:C:OP2	1.81	0.80
25:BA:684:G:C2'	25:BA:687:C:N4	2.39	0.80
25:BA:740:U:O4	25:BA:758:C:O2	2.00	0.80
27:BC:91:ALA:HA	27:BC:153:ILE:HG21	1.61	0.80
27:BC:90:GLY:HA3	27:BC:157:LYS:HD3	1.63	0.80
28:BD:107:ALA:H	28:BD:108:PRO:HD3	1.45	0.80
29:BE:111:ARG:HB2	29:BE:161:GLY:CA	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:38:ARG:HA	30:BF:41:LEU:CD2	2.11	0.80
35:BM:103:VAL:HG23	35:BM:117:PHE:CZ	2.17	0.80
36:BN:76:ALA:HB1	36:BN:78:ARG:HH22	1.46	0.80
37:BO:113:LYS:HZ2	37:BO:115:LEU:HA	1.44	0.80
37:BO:35:HIS:HB3	37:BO:36:LYS:HE2	1.63	0.80
37:BO:49:ARG:HA	37:BO:52:GLU:OE1	1.82	0.80
37:BO:93:GLY:HA2	37:BO:112:LEU:CD1	2.10	0.80
41:BS:6:LEU:H	41:BS:6:LEU:HD13	1.47	0.80
41:BS:76:PHE:CE2	41:BS:78:LEU:HD21	2.16	0.80
25:BA:531:C:O2	42:BT:28:ARG:CZ	2.30	0.80
43:BU:14:VAL:HG21	43:BU:19:LYS:HG3	1.64	0.80
43:BU:39:LEU:O	43:BU:54:GLY:O	1.99	0.80
1:AA:250:A:H4'	1:AA:251:G:O5'	1.79	0.80
1:AA:520:A:C8	1:AA:521:G:O4'	2.35	0.80
1:AA:8:A:H1'	8:AH:102:ALA:O	1.80	0.80
1:AA:910:C:O2'	1:AA:911:U:H5'	1.82	0.80
2:AC:17:C:C4	2:AC:19:G:C8	2.70	0.80
6:AF:112:SER:HB2	6:AF:115:LEU:HB2	1.64	0.80
1:AA:1189:C:H5''	6:AF:5:ILE:HG12	1.63	0.80
6:AF:84:ILE:HD11	6:AF:88:ARG:HH21	1.47	0.80
6:AF:87:LEU:HD12	6:AF:101:LEU:HD11	1.60	0.80
7:AG:18:LYS:HD3	7:AG:20:TYR:CD2	2.16	0.80
8:AH:78:HIS:ND1	11:AK:107:LEU:HD11	1.95	0.80
9:AI:46:ARG:HG2	9:AI:47:ARG:H	1.45	0.80
11:AK:45:ILE:HD11	11:AK:48:TYR:HB3	1.64	0.80
11:AK:63:LEU:HG	11:AK:65:TYR:HE1	1.44	0.80
1:AA:942:G:N2	12:AL:124:GLN:HE22	1.77	0.80
13:AM:49:VAL:HG13	17:AQ:41:ARG:HD2	1.62	0.80
17:AQ:47:LEU:HA	17:AQ:50:LYS:HG3	1.64	0.80
19:AS:49:LEU:HD11	19:AS:51:VAL:CG2	2.10	0.80
23:AW:85:MET:HB3	23:AW:104:LEU:HD11	1.61	0.80
45:BW:7:VAL:CG2	49:B1:28:MET:HG2	2.11	0.80
25:BA:1171:G:H2'	25:BA:1173:G:H4'	1.64	0.80
25:BA:1913:A:N3	25:BA:1916:A:H2	1.79	0.80
25:BA:2497:A:H2'	25:BA:2498:C:OP2	1.79	0.80
25:BA:269:U:H3	25:BA:270:A:N6	1.77	0.80
25:BA:2786:U:C2'	25:BA:2787:C:H5'	2.11	0.80
25:BA:464:U:H1'	25:BA:788:A:N6	1.97	0.80
25:BA:702:G:O2'	25:BA:703:U:H5'	1.81	0.80
25:BA:803:U:O2'	25:BA:804:A:H5'	1.81	0.80
25:BA:850:C:O2'	50:B2:22:ALA:HB2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:916:G:N2	25:BA:917:A:N6	2.27	0.80
26:BB:43:C:H4'	31:BG:98:ARG:HH12	1.46	0.80
26:BB:67:G:H2'	26:BB:68:C:C6	2.17	0.80
25:BA:2124:G:C4'	27:BC:42:GLU:HG3	2.11	0.80
28:BD:233:HIS:ND1	28:BD:233:HIS:N	2.30	0.80
29:BE:151:TYR:HE2	35:BM:78:TYR:HB3	1.46	0.80
30:BF:121:GLY:CA	30:BF:191:ARG:HH11	1.95	0.80
31:BG:39:ILE:HG23	31:BG:157:ILE:HB	1.62	0.80
35:BM:33:LEU:O	35:BM:35:ARG:N	2.15	0.80
37:BO:19:VAL:O	37:BO:19:VAL:HG23	1.79	0.80
37:BO:81:GLN:HA	37:BO:86:LYS:HG2	1.61	0.80
38:BP:65:PHE:HB2	38:BP:105:GLU:HA	1.64	0.80
40:BR:11:LYS:HG3	40:BR:14:VAL:CG1	2.11	0.80
42:BT:17:ILE:CG2	42:BT:20:LEU:HD12	2.10	0.80
43:BU:69:LYS:NZ	43:BU:70:ILE:HD12	1.96	0.80
25:BA:751:A:H5'	44:BV:90:ARG:NH2	1.96	0.80
46:BX:19:LYS:HG2	46:BX:39:VAL:HG12	1.63	0.80
22:AV:30:LEU:HD11	22:AV:50:ALA:HB2	1.64	0.80
1:AA:397:A:N6	1:AA:548:G:O6	2.15	0.80
1:AA:706:A:H4'	14:AN:22:HIS:ND1	1.96	0.80
1:AA:99:C:H2'	1:AA:101:A:C8	2.17	0.80
5:AE:117:GLU:O	5:AE:120:ALA:HB3	1.80	0.80
8:AH:53:LEU:CD2	8:AH:53:LEU:H	1.94	0.80
14:AN:54:ARG:O	14:AN:57:THR:HG22	1.79	0.80
15:AO:100:ILE:HD13	15:AO:100:ILE:H	1.42	0.80
22:AV:36:ARG:NH2	22:AV:75:ALA:HB3	1.97	0.80
22:AV:5:LEU:CD1	22:AV:9:VAL:HG13	2.10	0.80
37:BO:56:SER:HB3	55:B7:13:ARG:CZ	2.11	0.80
56:B8:17:ILE:HD12	56:B8:26:ILE:HB	1.63	0.80
25:BA:104:U:H2'	25:BA:105:C:O4'	1.82	0.80
25:BA:974:G:O2'	25:BA:1186:G:C4	2.34	0.80
25:BA:1565:C:N4	25:BA:1567:A:H1'	1.97	0.80
25:BA:1609:A:N6	25:BA:1616:A:C2	2.49	0.80
25:BA:1668:A:H2'	25:BA:1669:A:OP2	1.80	0.80
25:BA:1792:G:P	28:BD:206:LEU:HD21	2.21	0.80
25:BA:2075:U:H6	25:BA:2597:G:N2	1.80	0.80
25:BA:2216:G:O2'	25:BA:2217:G:H5'	1.80	0.80
25:BA:226:G:C2	25:BA:227:A:H2	1.99	0.80
25:BA:2283:C:C5	25:BA:2389:G:N3	2.50	0.80
25:BA:357:A:H2'	25:BA:358:U:C6	2.17	0.80
25:BA:422:A:C2	25:BA:423:A:C4	2.69	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:455:C:C4'	25:BA:456:C:OP1	2.28	0.80
25:BA:763:G:C2'	25:BA:764:A:H5''	2.11	0.80
25:BA:893:C:H2'	25:BA:894:C:H6	1.42	0.80
25:BA:972:G:C5	25:BA:973:A:N7	2.50	0.80
28:BD:169:GLU:HB3	28:BD:174:ILE:HD11	1.63	0.80
30:BF:41:LEU:O	30:BF:44:ARG:HG2	1.82	0.80
36:BN:112:MET:O	36:BN:115:VAL:HB	1.82	0.80
40:BR:29:PHE:O	40:BR:29:PHE:HD1	1.64	0.80
45:BW:30:VAL:HG11	45:BW:79:ALA:HB3	1.64	0.80
46:BX:8:LYS:HE3	46:BX:28:LYS:HD2	1.64	0.80
47:BY:114:GLY:C	47:BY:116:VAL:H	1.82	0.80
33:BK:78:THR:HG22	33:BK:143:SER:OG	1.81	0.80
1:AA:1277:C:C4'	1:AA:1282:C:H1'	2.11	0.80
1:AA:132:C:C2	1:AA:231:G:N2	2.50	0.80
1:AA:1339:A:C2'	1:AA:1340:A:H5'	2.11	0.80
1:AA:640:A:O2'	1:AA:641:U:H5'	1.82	0.80
1:AA:674:G:H2'	1:AA:675:A:C8	2.16	0.80
1:AA:690:G:C6	1:AA:691:G:N3	2.50	0.80
1:AA:727:G:N2	1:AA:731:G:C5	2.50	0.80
1:AA:963:G:H2'	1:AA:964:A:H8	1.45	0.80
9:AI:14:LEU:CD1	9:AI:19:LEU:HD12	2.11	0.80
10:AJ:14:PRO:HG3	10:AJ:21:VAL:HG13	1.64	0.80
12:AL:49:PRO:HD3	12:AL:78:LYS:NZ	1.96	0.80
14:AN:48:ILE:HD11	14:AN:64:ALA:CA	2.10	0.80
14:AN:51:LYS:HD3	14:AN:52:GLY:H	1.46	0.80
14:AN:79:SER:HA	14:AN:104:GLN:CG	2.12	0.80
25:BA:1161:C:O2'	25:BA:1162:G:H5'	1.80	0.80
25:BA:1813:G:H4'	28:BD:46:GLN:HG2	1.63	0.80
25:BA:2121:G:H1'	27:BC:167:LYS:CE	2.11	0.80
25:BA:223:A:H4'	25:BA:223:A:OP2	1.80	0.80
25:BA:2559:C:O2'	25:BA:2560:C:H5'	1.82	0.80
25:BA:2505:G:C5	25:BA:2576:G:N3	2.50	0.80
25:BA:2599:G:H2'	25:BA:2600:A:H8	1.45	0.80
25:BA:2746:U:OP1	32:BH:142:GLY:HA3	1.82	0.80
25:BA:2761:G:O2'	25:BA:2762:G:H5'	1.80	0.80
25:BA:33:U:O2'	25:BA:34:C:C5	2.34	0.80
25:BA:527:C:H2'	35:BM:114:ARG:NH1	1.95	0.80
26:BB:61:G:H2'	26:BB:62:C:C6	2.16	0.80
27:BC:100:ILE:HA	27:BC:103:ILE:HD12	1.62	0.80
25:BA:1657:C:H5'	29:BE:133:LYS:HA	1.62	0.80
29:BE:202:LYS:C	29:BE:204:ALA:H	1.84	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:74:PRO:O	29:BE:75:VAL:HG13	1.82	0.80
29:BE:49:LEU:HD13	29:BE:76:ARG:HG2	1.64	0.80
31:BG:19:LEU:O	31:BG:22:ARG:HG2	1.82	0.80
32:BH:23:ARG:HD2	32:BH:34:GLU:HB3	1.63	0.80
35:BM:35:ARG:HD3	35:BM:48:MET:HE1	1.62	0.80
25:BA:1131:G:N2	35:BM:72:TYR:CE1	2.50	0.80
41:BS:5:ALA:O	41:BS:8:LYS:HB2	1.81	0.80
41:BS:95:ARG:HD2	41:BS:96:ARG:CZ	2.11	0.80
42:BT:105:VAL:HG12	42:BT:106:PHE:N	1.94	0.80
43:BU:14:VAL:HB	43:BU:98:GLU:OE2	1.81	0.80
1:AA:1395:C:OP2	1:AA:1395:C:H3'	1.82	0.80
1:AA:22:G:H2'	1:AA:23:C:C6	2.16	0.80
1:AA:302:G:H2'	1:AA:556:C:H5''	1.62	0.80
1:AA:429:U:H4'	1:AA:430:A:O5'	1.80	0.80
1:AA:481:G:H4'	1:AA:482:A:OP1	1.81	0.80
1:AA:586:C:OP1	20:AT:34:LYS:HE3	1.80	0.80
5:AE:171:ALA:O	5:AE:174:VAL:HB	1.80	0.80
7:AG:57:ARG:HH22	8:AH:107:ARG:HE	0.85	0.80
19:AS:4:ILE:CG2	19:AS:21:VAL:HG13	2.12	0.80
51:B3:58:ARG:O	51:B3:61:ARG:CB	2.29	0.80
25:BA:1317:A:H2'	25:BA:1318:C:H6	1.47	0.80
25:BA:1543:A:C3'	25:BA:1544:C:H4'	2.12	0.80
25:BA:1799:G:O2'	25:BA:1800:C:O4'	1.98	0.80
25:BA:2132:U:H2'	25:BA:2134:A:N7	1.96	0.80
25:BA:2306:C:C5	25:BA:2311:A:N1	2.50	0.80
25:BA:2850:A:C4	25:BA:2851:A:N7	2.50	0.80
25:BA:311:A:C2	25:BA:331:A:H5''	2.11	0.80
25:BA:510:C:OP1	25:BA:512:G:N2	2.12	0.80
25:BA:866:A:N6	25:BA:913:U:O2'	2.13	0.80
27:BC:27:HIS:NE2	27:BC:182:PRO:HG3	1.96	0.80
29:BE:105:THR:HB	29:BE:166:THR:HB	1.64	0.80
29:BE:72:VAL:HG23	29:BE:74:PRO:HD3	1.62	0.80
35:BM:35:ARG:HD3	35:BM:48:MET:CE	2.12	0.80
38:BP:98:LYS:HZ2	38:BP:98:LYS:H	1.26	0.80
43:BU:65:GLY:N	43:BU:97:LYS:HZ2	1.80	0.80
43:BU:66:ARG:C	43:BU:94:LEU:HD23	2.02	0.80
1:AA:1049:U:H1'	1:AA:1201:A:C8	2.16	0.80
1:AA:1063:C:H5''	1:AA:1064:G:H5''	1.64	0.80
1:AA:1210:C:H4'	1:AA:1214:C:C4	2.16	0.80
1:AA:129(A):G:H4'	1:AA:130:A:O5'	1.81	0.80
5:AE:132:LYS:H	5:AE:132:LYS:CE	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:150:GLU:O	7:AG:152:SER:N	2.15	0.80
9:AI:96:PRO:O	9:AI:97:PHE:HB2	1.79	0.80
11:AK:14:ARG:HD3	11:AK:15:ASN:ND2	1.96	0.80
11:AK:97:VAL:HG22	11:AK:98:LYS:HD3	1.64	0.80
12:AL:112:LYS:HE2	12:AL:117:HIS:CA	2.11	0.80
1:AA:1327:C:H5''	24:AX:20:LYS:NZ	1.96	0.80
25:BA:2741:A:H5''	56:B8:22:ARG:HH22	1.46	0.80
25:BA:1166:C:H2'	25:BA:1167:U:H6	1.47	0.80
25:BA:1656:C:OP1	29:BE:115:GLY:HA3	1.82	0.80
25:BA:1972:A:H2'	25:BA:1973:G:H8	1.47	0.80
25:BA:2113:U:H2'	25:BA:2114:A:C8	2.17	0.80
25:BA:2360:A:OP1	55:B7:49:VAL:HG13	1.82	0.80
25:BA:2589:A:OP1	28:BD:226:MET:HG3	1.82	0.80
25:BA:270(X):G:H5''	25:BA:273:G:OP1	1.80	0.80
25:BA:455:C:OP1	25:BA:472:A:N1	2.15	0.80
25:BA:565:C:N3	25:BA:566:U:C4	2.50	0.80
25:BA:70:G:O2'	25:BA:71:A:H5'	1.83	0.80
25:BA:996:A:H2'	25:BA:997:G:H8	1.47	0.80
27:BC:51:PRO:HG3	27:BC:167:LYS:O	1.80	0.80
28:BD:176:ARG:HA	28:BD:182:LEU:HD23	1.61	0.80
29:BE:84:PHE:C	29:BE:85:ASN:HD22	1.85	0.80
32:BH:96:ALA:HB3	32:BH:128:PRO:HB2	1.61	0.80
25:BA:2685:G:O5'	36:BN:67:LYS:HD2	1.82	0.80
38:BP:59:ARG:NH1	38:BP:61:GLY:HA3	1.95	0.80
39:BQ:47:PHE:O	39:BQ:51:LEU:HD12	1.81	0.80
41:BS:30:VAL:HG22	41:BS:32:TYR:CZ	2.17	0.80
41:BS:65:LYS:CG	41:BS:75:ILE:HB	2.11	0.80
42:BT:114:LYS:HG2	42:BT:115:ALA:H	1.47	0.80
26:BB:88:C:H3'	26:BB:89:G:H5'	1.62	0.80
1:AA:105:G:H2'	1:AA:106:C:C6	2.17	0.79
1:AA:1192:C:H5	1:AA:1193:G:N9	1.80	0.79
1:AA:1265:G:O6	1:AA:1266:G:N3	2.14	0.79
1:AA:129(A):G:O2'	1:AA:189:U:H3'	1.83	0.79
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.16	0.79
1:AA:1511:G:H2'	1:AA:1512:U:O4'	1.82	0.79
1:AA:280:C:H5''	1:AA:281:G:OP2	1.82	0.79
1:AA:992:U:H5'	1:AA:993:G:C8	2.17	0.79
3:AD:50:G:H2'	3:AD:51:C:C6	2.18	0.79
5:AE:115:LEU:O	5:AE:118:LEU:HB3	1.82	0.79
5:AE:182:ILE:H	5:AE:182:ILE:CD1	1.94	0.79
7:AG:170:VAL:HG23	7:AG:176:LEU:CB	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:60:GLU:HA	7:AG:63:LYS:HD2	1.64	0.79
10:AJ:15:ASP:HB2	10:AJ:23:VAL:HB	1.64	0.79
11:AK:40:ALA:N	11:AK:45:ILE:HG23	1.97	0.79
12:AL:17:VAL:HA	12:AL:63:ILE:HG23	1.64	0.79
15:AO:34:ARG:O	15:AO:60:LEU:HB2	1.82	0.79
20:AT:53:LEU:HD11	20:AT:85:VAL:HG22	1.64	0.79
50:B2:19:GLN:HE22	50:B2:50:VAL:HA	1.45	0.79
53:B5:14:THR:HG22	53:B5:51:GLU:CG	2.12	0.79
55:B7:22:VAL:O	55:B7:48:PHE:CD2	2.35	0.79
25:BA:1368:G:H2'	25:BA:1369:G:C8	2.17	0.79
25:BA:740:U:P	25:BA:1784:A:N1	2.55	0.79
25:BA:2110:G:H2'	25:BA:2120:G:H5'	1.64	0.79
25:BA:2227:A:C6	25:BA:2228:G:N7	2.51	0.79
25:BA:24:G:H2'	25:BA:25:U:C6	2.16	0.79
25:BA:2809:A:C4'	25:BA:2811:G:N7	2.44	0.79
25:BA:663:G:H5'	37:BO:18:ARG:CB	2.12	0.79
25:BA:670:A:H2'	37:BO:41:ARG:NH1	1.95	0.79
25:BA:878:A:N3	25:BA:879:G:H5''	1.97	0.79
26:BB:14:U:O2'	26:BB:107:U:H1'	1.82	0.79
28:BD:17:THR:C	28:BD:19:ALA:H	1.85	0.79
28:BD:244:ARG:HA	28:BD:252:TRP:HE1	1.46	0.79
30:BF:131:GLY:HA3	30:BF:134:GLY:HA2	1.64	0.79
35:BM:55:VAL:CG2	35:BM:129:PRO:HG2	2.11	0.79
39:BQ:64:ARG:HG2	39:BQ:65:LEU:N	1.96	0.79
41:BS:54:ARG:C	41:BS:64:ARG:HB2	2.01	0.79
47:BY:91:LEU:HD12	47:BY:95:PRO:HG3	1.62	0.79
26:BB:-1:A:N7	26:BB:0:A:H1'	1.96	0.79
7:AG:69:GLY:O	7:AG:70:ILE:HG12	1.81	0.79
1:AA:408:A:H5'	7:AG:116:GLN:HG2	1.64	0.79
5:AE:168:THR:OG1	5:AE:192:SER:HA	1.82	0.79
7:AG:18:LYS:HA	7:AG:33:MET:CE	2.11	0.79
8:AH:35:GLY:HA3	8:AH:41:VAL:CG1	2.12	0.79
21:AU:50:ILE:HD11	21:AU:70:ILE:HG21	1.62	0.79
22:AV:19:VAL:O	22:AV:23:ASN:HB2	1.82	0.79
51:B3:5:ILE:HD12	51:B3:8:LYS:C	2.02	0.79
55:B7:34:TRP:C	55:B7:36:LYS:N	2.27	0.79
25:BA:1438:U:O2'	25:BA:1439:A:H5'	1.83	0.79
25:BA:1529:A:H2'	25:BA:1530:G:O4'	1.83	0.79
25:BA:2359:C:H6	25:BA:2359:C:O5'	1.64	0.79
25:BA:2606:C:H2'	25:BA:2607:G:O5'	1.81	0.79
25:BA:685:A:H5''	25:BA:686:G:H21	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:728:G:C6	25:BA:762:U:C2'	2.65	0.79
27:BC:93:TYR:CZ	27:BC:109:ASP:HB3	2.16	0.79
28:BD:7:LYS:CE	28:BD:91:ARG:HE	1.94	0.79
29:BE:119:ARG:HH11	29:BE:120:TRP:CB	1.95	0.79
32:BH:101:ARG:HH12	32:BH:122:THR:HG23	1.45	0.79
35:BM:99:LEU:HD12	35:BM:100:GLU:N	1.98	0.79
38:BP:58:PHE:O	38:BP:60:ARG:N	2.16	0.79
39:BQ:44:LEU:HD13	39:BQ:48:VAL:CG2	2.11	0.79
46:BX:48:ALA:HA	46:BX:56:PRO:HD2	1.64	0.79
48:BZ:21:LEU:HA	48:BZ:39:ARG:HB2	1.61	0.79
25:BA:1102:C:H2'	25:BA:1102:C:O2	1.81	0.79
1:AA:1084:G:C4	1:AA:1085:U:H5	1.99	0.79
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.17	0.79
1:AA:1492:A:H61	1:AA:1494:G:H4'	1.48	0.79
1:AA:731:G:O2'	1:AA:732:C:H5'	1.82	0.79
1:AA:768:A:N7	1:AA:769:G:N7	2.31	0.79
1:AA:824:C:H2'	1:AA:825:G:H8	1.46	0.79
5:AE:214:ILE:HA	5:AE:217:ARG:HG2	1.63	0.79
5:AE:70:PHE:O	5:AE:92:TYR:HB2	1.83	0.79
14:AN:73:MET:CE	14:AN:103:LEU:HD22	2.13	0.79
49:B1:27:LEU:HD21	49:B1:48:LEU:HB3	1.64	0.79
56:B8:19:ARG:HH11	56:B8:22:ARG:CD	1.95	0.79
25:BA:1475:G:H1	25:BA:1477:A:H62	1.30	0.79
25:BA:2243:U:H2'	25:BA:2244:U:C6	2.16	0.79
25:BA:2469:A:H8	25:BA:2469:A:H5'	1.46	0.79
25:BA:783:A:C5'	25:BA:2589:A:OP1	2.27	0.79
25:BA:389:G:O6	37:BO:64:LYS:HG2	1.82	0.79
25:BA:457:A:C1'	25:BA:459:U:N3	2.45	0.79
25:BA:600:G:H5'	30:BF:32:LEU:HD11	1.65	0.79
25:BA:768:G:O2'	25:BA:769:G:H5'	1.82	0.79
25:BA:945:A:C4	25:BA:2448:A:C2	2.71	0.79
27:BC:130:ILE:HD12	27:BC:130:ILE:H	1.48	0.79
27:BC:86:ALA:HB1	27:BC:153:ILE:HD13	1.65	0.79
28:BD:112:GLN:H	28:BD:115:GLN:HE21	0.85	0.79
28:BD:244:ARG:HA	28:BD:252:TRP:NE1	1.97	0.79
29:BE:133:LYS:CB	29:BE:137:HIS:NE2	2.39	0.79
29:BE:14:ILE:HA	29:BE:19:ARG:HA	1.64	0.79
30:BF:148:LEU:HD12	30:BF:152:GLU:HG2	1.62	0.79
30:BF:70:THR:C	30:BF:72:ARG:N	2.33	0.79
31:BG:78:SER:O	31:BG:80:PHE:N	2.14	0.79
32:BH:121:ILE:HG13	32:BH:133:VAL:CG2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:111:PHE:O	36:BN:114:ILE:HG22	1.83	0.79
36:BN:6:THR:O	36:BN:20:MET:HA	1.82	0.79
38:BP:6:ARG:HG2	38:BP:70:PRO:CG	2.12	0.79
25:BA:1334:G:C5'	45:BW:65:ARG:HH22	1.95	0.79
46:BX:23:ARG:HD2	46:BX:39:VAL:HG22	1.63	0.79
1:AA:1058:G:O2'	1:AA:1059:C:H5'	1.82	0.79
1:AA:1470:G:O2'	1:AA:1471:G:H5'	1.83	0.79
1:AA:198:G:H21	1:AA:199:G:H1'	1.47	0.79
1:AA:109:A:N7	1:AA:326:G:C4	2.51	0.79
10:AJ:94:ARG:HG3	10:AJ:94:ARG:HH11	1.47	0.79
17:AQ:27:CYS:H	17:AQ:43:CYS:HB3	1.47	0.79
50:B2:7:LYS:O	50:B2:54:VAL:HG23	1.82	0.79
25:BA:242:G:H8	55:B7:4:MET:CG	1.96	0.79
25:BA:119:A:H4'	25:BA:120:U:H5'	1.63	0.79
25:BA:1326:U:C4	25:BA:1648:C:H1'	2.18	0.79
25:BA:1532:C:H2'	25:BA:1533:C:H6	1.48	0.79
25:BA:1663:C:H2'	25:BA:1664:A:N9	1.97	0.79
25:BA:1665:A:H1'	36:BN:1:MET:CG	2.12	0.79
25:BA:2424:C:H2'	25:BA:2424:C:O2	1.81	0.79
25:BA:2443:C:H2'	25:BA:2444:G:H8	1.47	0.79
25:BA:2462:U:H2'	25:BA:2463:C:H6	1.46	0.79
25:BA:2505:G:C2'	25:BA:2576:G:N2	2.45	0.79
25:BA:2875:C:O2'	41:BS:4:GLY:HA3	1.81	0.79
25:BA:397:G:OP2	51:B3:59:PHE:CZ	2.36	0.79
25:BA:612:G:O2'	25:BA:615:G:H2'	1.82	0.79
25:BA:656:G:H2'	25:BA:657:U:C6	2.17	0.79
26:BB:45:A:H3'	26:BB:46:A:H8	1.47	0.79
27:BC:113:VAL:HG21	27:BC:136:LEU:O	1.82	0.79
25:BA:2124:G:H4'	27:BC:42:GLU:CG	2.11	0.79
29:BE:37:ARG:O	29:BE:38:THR:HB	1.80	0.79
30:BF:110:LEU:HA	30:BF:183:VAL:HG22	1.64	0.79
30:BF:67:GLN:NE2	30:BF:67:GLN:O	2.15	0.79
30:BF:73:ALA:O	30:BF:74:ARG:O	1.99	0.79
33:BK:43:ASN:HD22	33:BK:43:ASN:N	1.79	0.79
35:BM:15:LEU:HD11	35:BM:137:LYS:HB3	1.63	0.79
36:BN:108:GLU:HB3	36:BN:111:PHE:CE2	2.16	0.79
38:BP:12:GLN:HE21	38:BP:12:GLN:CA	1.95	0.79
41:BS:57:PHE:HA	41:BS:61:PHE:HD2	1.46	0.79
47:BY:91:LEU:HB2	47:BY:131:ARG:HD3	1.63	0.79
47:BY:9:TYR:HB3	47:BY:14:LYS:CG	2.12	0.79
33:BK:109:ILE:HG12	33:BK:113:ARG:HH21	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:49:LYS:HA	44:BV:49:LYS:HE2	1.63	0.79
1:AA:954:G:N2	1:AA:1228:C:C4	2.50	0.79
1:AA:1493:A:O2'	1:AA:1494:G:C5'	2.31	0.79
1:AA:745:C:H2'	1:AA:746:A:H8	1.48	0.79
1:AA:781:A:O2'	1:AA:782:A:H5'	1.81	0.79
7:AG:114:ARG:O	7:AG:117:ALA:HB3	1.83	0.79
7:AG:191:ARG:NH2	7:AG:194:LEU:O	2.15	0.79
7:AG:58:LEU:CD1	7:AG:59:ARG:HD2	2.12	0.79
10:AJ:50:ILE:CG2	10:AJ:61:VAL:HG21	2.12	0.79
10:AJ:50:ILE:HG21	10:AJ:61:VAL:HG21	1.64	0.79
11:AK:10:LEU:CD1	11:AK:85:ARG:HB2	2.13	0.79
1:AA:625:G:OP1	19:AS:9:PHE:HB3	1.82	0.79
25:BA:95:G:C1'	49:B1:42:ASN:HD22	1.94	0.79
55:B7:12:LYS:HG2	55:B7:13:ARG:NH2	1.97	0.79
55:B7:38:GLY:O	55:B7:41:ILE:N	2.16	0.79
37:BO:45:LEU:HB2	55:B7:59:LYS:NZ	1.96	0.79
25:BA:118:A:O2'	25:BA:178:G:H5'	1.82	0.79
25:BA:1275:A:H2	39:BQ:16:HIS:CA	1.93	0.79
25:BA:1275:A:N6	25:BA:1296:G:H5'	1.96	0.79
25:BA:1368:G:O2'	25:BA:1369:G:H5'	1.82	0.79
25:BA:1569:A:O2'	28:BD:39:LYS:HG2	1.83	0.79
25:BA:1827:C:H1'	25:BA:1970:A:C2	2.11	0.79
25:BA:2620:C:H4'	29:BE:156:MET:CB	2.10	0.79
25:BA:2681:C:H5	25:BA:2727:G:N2	1.80	0.79
25:BA:2765:A:H2'	25:BA:2765:A:N3	1.97	0.79
25:BA:703:U:H3'	25:BA:704:G:H8	1.48	0.79
25:BA:720:C:H2'	25:BA:721:C:H6	1.47	0.79
25:BA:873:G:C2	25:BA:874:G:H1'	2.18	0.79
26:BB:78:A:H2'	26:BB:79:C:H5'	1.64	0.79
27:BC:119:VAL:O	27:BC:123:VAL:HG23	1.83	0.79
27:BC:22:ILE:CG2	27:BC:190:ARG:HH22	1.94	0.79
28:BD:98:VAL:HG12	28:BD:99:ASP:N	1.98	0.79
29:BE:12:THR:HG21	29:BE:19:ARG:CZ	2.13	0.79
29:BE:49:LEU:HD13	29:BE:76:ARG:O	1.81	0.79
35:BM:46:VAL:HG12	35:BM:47:ALA:N	1.98	0.79
25:BA:587:C:H5	37:BO:30:THR:HG1	1.27	0.79
40:BR:31:SER:HB3	40:BR:34:HIS:CB	2.13	0.79
40:BR:26:LEU:HB3	40:BR:88:ASP:HB2	1.65	0.79
41:BS:105:LEU:HG	41:BS:106:SER:H	1.44	0.79
41:BS:48:ILE:HG21	41:BS:50:ILE:HD11	1.63	0.79
43:BU:27:ALA:CB	43:BU:35:LEU:HD12	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:35:LEU:HD23	43:BU:36:PRO:CD	2.11	0.79
1:AA:1538:C:H2'	1:AA:1539:C:H6	1.44	0.79
1:AA:1269:A:H5'	1:AA:1326:C:H4'	1.63	0.79
1:AA:390:C:H2'	1:AA:391:G:H8	1.48	0.79
1:AA:451:A:N6	1:AA:480:U:H2'	1.98	0.79
1:AA:596:C:H2'	1:AA:596:C:O2	1.81	0.79
1:AA:817:C:H1'	1:AA:820:U:OP2	1.83	0.79
10:AJ:12:LEU:O	10:AJ:14:PRO:HD3	1.81	0.79
12:AL:45:ALA:HB3	12:AL:74:ILE:CG2	2.12	0.79
1:AA:582:U:H5''	18:AR:68:ARG:HH22	1.48	0.79
22:AV:15:LEU:HG	22:AV:16:LEU:H	1.46	0.79
25:BA:1203:G:O6	25:BA:1241:A:C2	2.34	0.79
25:BA:1434:A:H61	25:BA:1558:A:N6	1.81	0.79
25:BA:1687:G:H2'	25:BA:1701:A:H61	1.48	0.79
25:BA:2207:C:C3'	25:BA:2208:U:H5''	2.12	0.79
25:BA:2307:G:H3'	25:BA:2308:G:O4'	1.82	0.79
25:BA:270(C):C:C2'	25:BA:270(D):C:H6	1.91	0.79
25:BA:271(B):G:H3'	25:BA:271(C):U:H5'	1.65	0.79
25:BA:2881:C:H2'	25:BA:2882:A:H8	1.48	0.79
25:BA:640:C:H42	25:BA:647:G:H1	1.28	0.79
25:BA:83:G:O2'	25:BA:84:A:O4'	2.00	0.79
25:BA:975:G:N1	25:BA:976:C:C6	2.50	0.79
25:BA:2572:A:C2	29:BE:144:ARG:CZ	2.65	0.79
29:BE:59:VAL:HG12	29:BE:62:PRO:HD2	1.65	0.79
31:BG:6:ALA:HA	31:BG:9:ARG:NH2	1.98	0.79
35:BM:16:ILE:HD13	35:BM:54:VAL:HG23	1.62	0.79
36:BN:10:VAL:CG2	36:BN:14:THR:HG21	2.11	0.79
39:BQ:17:ARG:CB	39:BQ:17:ARG:NH1	2.46	0.79
41:BS:21:GLU:O	41:BS:23:ARG:HG3	1.83	0.79
41:BS:40:THR:HG22	41:BS:40:THR:O	1.81	0.79
43:BU:28:GLU:CD	43:BU:94:LEU:HB2	2.02	0.79
45:BW:5:TYR:O	45:BW:7:VAL:N	2.14	0.79
46:BX:19:LYS:HZ1	46:BX:39:VAL:HB	1.47	0.79
47:BY:145:GLU:N	47:BY:174:VAL:HG21	1.98	0.79
33:BK:91:SER:HB3	33:BK:121:LYS:HD3	1.64	0.79
1:AA:1035:A:H2'	1:AA:1036:G:H5'	1.64	0.79
1:AA:174:C:H2'	1:AA:175:C:C6	2.16	0.79
5:AE:121:LEU:HD22	5:AE:126:GLU:OE2	1.81	0.79
5:AE:61:LEU:HA	5:AE:64:ARG:CD	2.12	0.79
7:AG:170:VAL:HG12	7:AG:171:GLY:N	1.95	0.79
11:AK:38:ILE:CG1	11:AK:118:VAL:HG11	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:54:ARG:HA	18:AR:57:LEU:HD22	1.64	0.79
22:AV:47:HIS:H	22:AV:62:ILE:CG2	1.94	0.79
50:B2:10:LYS:HZ3	50:B2:31:LEU:HG	1.46	0.79
25:BA:1027:A:H2'	25:BA:1028:A:H8	1.47	0.79
25:BA:1186:G:H8	25:BA:1187:G:N7	1.80	0.79
25:BA:1650:G:N2	25:BA:1651:G:H1'	1.96	0.79
25:BA:1790:C:O3'	28:BD:209:ALA:HB1	1.82	0.79
25:BA:2335:A:H2'	25:BA:2337:G:N7	1.95	0.79
25:BA:2378:A:C2	25:BA:2379:G:H1'	2.17	0.79
25:BA:2387:U:C1'	48:BZ:41:ARG:NH2	2.45	0.79
25:BA:2555:U:H2'	25:BA:2556:C:H5'	1.64	0.79
25:BA:877:U:O2'	25:BA:878:A:H5'	1.83	0.79
25:BA:916:G:H21	25:BA:917:A:H62	0.82	0.79
25:BA:2210:G:C5	28:BD:150:LYS:HA	2.17	0.79
31:BG:20:ILE:HD13	31:BG:28:VAL:HG13	1.64	0.79
32:BH:103:LEU:N	32:BH:115:VAL:HG12	1.97	0.79
33:BK:9:LEU:HA	33:BK:17:GLN:NE2	1.97	0.79
25:BA:527:C:H2'	35:BM:114:ARG:HH12	1.47	0.79
36:BN:97:ARG:HB3	36:BN:117:LEU:HD11	1.65	0.79
25:BA:662:G:H5'	37:BO:16:ARG:HA	1.63	0.79
40:BR:40:ILE:CG2	40:BR:41:ASP:N	2.45	0.79
41:BS:32:TYR:N	41:BS:32:TYR:CD1	2.47	0.79
41:BS:76:PHE:HE2	41:BS:78:LEU:HD21	1.47	0.79
44:BV:3:ALA:HB2	44:BV:58:ALA:HB2	1.63	0.79
46:BX:15:VAL:HG23	46:BX:70:SER:HB2	1.64	0.79
33:BK:130:TYR:O	33:BK:138:ILE:HG22	1.83	0.79
25:BA:1078:U:H5''	25:BA:1079:C:OP1	1.81	0.79
1:AA:1085:U:H5'	1:AA:1094:G:N2	1.97	0.79
1:AA:1343:G:H4'	12:AL:122:ALA:O	1.83	0.79
1:AA:176:C:O2'	1:AA:177:C:H5'	1.83	0.79
1:AA:506:G:H4'	4:A1:27:A:O3'	1.82	0.79
1:AA:570:G:C2	1:AA:873:A:N1	2.50	0.79
1:AA:60:A:H62	1:AA:110:C:H42	1.31	0.79
5:AE:144:ARG:HD3	5:AE:148:TYR:CE2	2.18	0.79
17:AQ:23:ARG:CD	17:AQ:30:ALA:HB2	2.12	0.79
18:AR:69:TYR:OH	18:AR:73:GLU:HG3	1.82	0.79
21:AU:81:PHE:O	21:AU:81:PHE:HD1	1.65	0.79
25:BA:2884:U:O2	52:B4:52:TYR:HB3	1.83	0.79
54:B6:43:THR:HG23	54:B6:46:VAL:CB	2.13	0.79
25:BA:1697:G:O6	25:BA:1698:A:C6	2.36	0.79
25:BA:2344:U:H5''	53:B5:38:LYS:HG3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2776:A:C4	25:BA:2778:A:C8	2.70	0.79
25:BA:728:G:C1'	25:BA:729:G:C8	2.66	0.79
25:BA:815:C:C2'	25:BA:816:C:H5'	2.12	0.79
29:BE:158:GLY:O	29:BE:160:TYR:HD1	1.64	0.79
29:BE:5:LEU:HG	29:BE:25:VAL:HG12	1.63	0.79
31:BG:30:GLU:HB3	31:BG:33:ARG:HG3	1.64	0.79
33:BK:32:PRO:CG	33:BK:33:ARG:H	1.95	0.79
35:BM:34:LEU:HD11	35:BM:52:VAL:HG11	1.65	0.79
35:BM:23:LEU:HD11	35:BM:62:VAL:HA	1.64	0.79
25:BA:2393:A:H5"	37:BO:56:SER:N	1.97	0.79
40:BR:103:GLU:O	40:BR:106:ARG:HB3	1.82	0.79
40:BR:37:ALA:O	40:BR:51:ALA:CB	2.29	0.79
40:BR:78:LEU:HD13	40:BR:79:ALA:N	1.98	0.79
40:BR:8:GLU:O	40:BR:9:ARG:C	2.19	0.79
44:BV:34:ASN:HA	44:BV:37:ARG:NE	1.97	0.79
46:BX:49:VAL:HG23	46:BX:51:VAL:HB	1.65	0.79
47:BY:76:LEU:CD2	47:BY:83:PRO:HD3	2.13	0.79
48:BZ:26:TYR:O	48:BZ:67:VAL:HG11	1.83	0.79
33:BK:94:ALA:CB	33:BK:114:LEU:HD12	2.04	0.79
34:BL:99:ILE:CG2	34:BL:100:THR:H	1.94	0.79
1:AA:1003:G:N7	1:AA:1004:A:N3	2.29	0.79
26:BB:3:C:H2'	26:BB:4:C:C6	2.17	0.79
1:AA:1403:C:H1'	1:AA:1500:A:N1	1.97	0.79
1:AA:304:U:H2'	1:AA:305:G:H8	1.47	0.79
1:AA:547:A:H4'	1:AA:548:G:OP1	1.81	0.79
7:AG:191:ARG:HH21	7:AG:194:LEU:HB2	1.47	0.79
8:AH:28:PHE:CZ	8:AH:50:GLU:HA	2.18	0.79
10:AJ:105:VAL:O	10:AJ:108:ALA:HB3	1.82	0.79
1:AA:691:G:N2	14:AN:51:LYS:NZ	2.31	0.79
15:AO:101:VAL:HG23	15:AO:104:VAL:HG21	1.64	0.79
16:AP:91:ARG:NH1	16:AP:96:LEU:HG	1.97	0.79
18:AR:42:HIS:C	18:AR:42:HIS:ND1	2.36	0.79
19:AS:21:VAL:HG21	19:AS:59:TRP:CD1	2.18	0.79
1:AA:237:C:OP1	20:AT:40:LYS:HE3	1.83	0.79
23:AW:51:GLU:HA	23:AW:54:LYS:HD2	1.63	0.79
25:BA:1689:A:H2'	25:BA:1690:A:C8	2.15	0.79
25:BA:175:G:O2'	25:BA:176:G:H5'	1.83	0.79
25:BA:1791:A:H2	25:BA:1829:A:O4'	1.65	0.79
25:BA:1993:U:C2'	25:BA:1994:C:H5'	2.11	0.79
25:BA:2172:U:O2'	25:BA:2173:A:OP1	2.01	0.79
25:BA:2283:C:C6	25:BA:2389:G:N3	2.51	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2422:A:N3	25:BA:2424:C:H5	1.81	0.79
25:BA:2564:A:C6	25:BA:2565:A:N6	2.50	0.79
25:BA:2682:U:O2	29:BE:12:THR:HG23	1.82	0.79
25:BA:329:G:OP2	46:BX:66:PRO:HG3	1.82	0.79
25:BA:347:A:N3	25:BA:347:A:H2'	1.98	0.79
25:BA:364:C:C2'	25:BA:365:C:C6	2.66	0.79
25:BA:374:A:H1'	25:BA:423:A:H2	1.47	0.79
25:BA:830:G:O2'	25:BA:831:G:OP1	2.01	0.79
26:BB:71:C:H2'	26:BB:71:C:O2	1.83	0.79
28:BD:142:VAL:HB	28:BD:192:THR:O	1.83	0.79
29:BE:91:VAL:HG13	29:BE:93:VAL:HG22	1.63	0.79
30:BF:162:LEU:O	30:BF:165:ARG:HB3	1.83	0.79
30:BF:192:LEU:HD22	30:BF:193:VAL:N	1.98	0.79
30:BF:43:LYS:HA	30:BF:97:TYR:O	1.83	0.79
31:BG:34:LEU:HD21	31:BG:176:LEU:HD11	1.65	0.79
25:BA:2305:A:N6	31:BG:43:LEU:HD22	1.98	0.79
35:BM:87:LEU:HD21	35:BM:88:GLU:OE1	1.83	0.79
30:BF:31:HIS:ND1	37:BO:11:GLY:CA	2.45	0.79
38:BP:77:LYS:HB2	38:BP:78:PRO:CD	2.12	0.79
40:BR:57:LYS:O	40:BR:58:LEU:HB2	1.81	0.79
41:BS:53:ARG:NH2	41:BS:102:ILE:HG13	1.98	0.79
43:BU:4:ILE:HG12	43:BU:13:ARG:HG2	1.65	0.79
43:BU:28:GLU:CG	43:BU:94:LEU:HB2	2.12	0.79
1:AA:738:C:H4'	9:AI:70:ASP:HA	1.65	0.79
1:AA:783:C:H2'	1:AA:784:C:C5'	2.13	0.79
1:AA:822:C:H2'	1:AA:823:G:H8	1.46	0.79
1:AA:982:U:H1'	1:AA:983:A:H62	1.48	0.79
12:AL:45:ALA:HB3	12:AL:74:ILE:HG21	1.63	0.79
23:AW:77:ALA:O	23:AW:80:ARG:HB2	1.83	0.79
51:B3:19:GLY:HA2	51:B3:32:TYR:CE1	2.18	0.79
55:B7:5:LYS:HD3	55:B7:63:PRO:HG3	1.65	0.79
25:BA:1556:C:H2'	25:BA:1557:C:C6	2.18	0.79
25:BA:1650:G:H21	25:BA:1651:G:H1'	1.47	0.79
25:BA:2437:U:H2'	25:BA:2438:U:C6	2.18	0.79
25:BA:2733:A:H2	29:BE:204:ALA:HB2	1.48	0.79
25:BA:292:C:O5'	25:BA:293:U:O4	2.00	0.79
25:BA:308:G:C2	25:BA:309:G:H1'	2.17	0.79
25:BA:55:G:H2'	25:BA:56:A:H8	1.47	0.79
31:BG:29:TRP:O	31:BG:31:VAL:N	2.15	0.79
31:BG:76:SER:O	31:BG:83:ARG:HG3	1.82	0.79
33:BK:9:LEU:CB	33:BK:13:GLY:HA3	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:86:PRO:O	35:BM:90:MET:HB2	1.83	0.79
37:BO:52:GLU:HA	37:BO:55:ARG:HD3	1.65	0.79
41:BS:65:LYS:HD3	41:BS:75:ILE:CG2	2.13	0.79
25:BA:2848:G:OP2	41:BS:99:LEU:HD12	1.83	0.79
42:BT:102:GLU:CB	42:BT:105:VAL:HB	2.10	0.79
42:BT:59:ARG:O	42:BT:63:VAL:HG23	1.83	0.79
47:BY:57:ILE:HG23	47:BY:69:THR:O	1.83	0.79
33:BK:113:ARG:O	33:BK:114:LEU:HD23	1.82	0.79
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.17	0.78
1:AA:186(A):C:O2'	23:AW:89:ARG:NH2	2.17	0.78
3:AD:41:G:H2'	3:AD:42:C:O4'	1.83	0.78
7:AG:147:ALA:HB2	7:AG:182:LYS:HB3	1.66	0.78
13:AM:75:ILE:HG22	13:AM:76:ASN:ND2	1.98	0.78
14:AN:67:ASP:O	14:AN:71:LYS:HG3	1.82	0.78
20:AT:88:TYR:HA	20:AT:91:ARG:HH21	1.46	0.78
25:BA:1475:G:H2'	25:BA:1475:G:N3	1.98	0.78
25:BA:1612:C:H2'	54:B6:3:ARG:NH2	1.97	0.78
25:BA:1899:G:H3'	25:BA:1899:G:C8	2.18	0.78
25:BA:1913:A:C4	25:BA:1918:A:N6	2.51	0.78
25:BA:1972:A:H2'	25:BA:1973:G:C8	2.17	0.78
25:BA:2093:G:H1'	33:BK:29:TYR:CD2	2.17	0.78
25:BA:2330:G:H1	25:BA:2385:C:N4	1.80	0.78
25:BA:2459:A:OP2	25:BA:2460:U:O4	2.01	0.78
25:BA:2649:U:O2'	25:BA:2650:U:H5'	1.83	0.78
25:BA:2755:C:H4'	25:BA:2756:U:H5	1.47	0.78
25:BA:2785:C:H2'	25:BA:2786:U:H6	1.46	0.78
25:BA:612:G:N2	25:BA:617:G:H1	1.81	0.78
25:BA:669:G:N3	25:BA:669:G:H2'	1.99	0.78
26:BB:27:C:H41	26:BB:56:G:H1	1.30	0.78
28:BD:246:PRO:CG	28:BD:250:TRP:HB2	2.13	0.78
33:BK:8:PRO:N	33:BK:14:ASP:HA	1.98	0.78
35:BM:127:ASP:O	35:BM:130:HIS:N	2.16	0.78
37:BO:111:ARG:HB2	37:BO:128:HIS:CD2	2.17	0.78
41:BS:52:ILE:O	41:BS:102:ILE:HD11	1.83	0.78
36:BN:121:VAL:HG12	41:BS:70:VAL:O	1.83	0.78
42:BT:84:LYS:HA	42:BT:84:LYS:HE2	1.65	0.78
43:BU:5:VAL:HG11	43:BU:37:VAL:CG1	2.08	0.78
25:BA:519:U:H5''	44:BV:75:TYR:HB2	1.65	0.78
46:BX:15:VAL:HG12	46:BX:16:ALA:H	1.48	0.78
34:BL:77:LEU:HB2	34:BL:111:LYS:NZ	1.98	0.78
1:AA:80:G:H3'	1:AA:81:G:H8	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1142:G:H2'	1:AA:1143:G:O4'	1.83	0.78
1:AA:1349:A:P	12:AL:118:LYS:HB3	2.23	0.78
1:AA:730:G:N7	1:AA:731:G:H1'	1.97	0.78
1:AA:942:G:N2	12:AL:124:GLN:NE2	2.31	0.78
3:AD:19:G:C2	3:AD:57:G:H1'	2.18	0.78
5:AE:14:GLY:O	5:AE:15:VAL:HG13	1.83	0.78
7:AG:173:TRP:HD1	7:AG:185:PHE:CE2	2.02	0.78
11:AK:90:GLY:O	15:AO:7:ILE:HG13	1.83	0.78
12:AL:19:LEU:HD22	12:AL:59:PHE:HD2	1.47	0.78
15:AO:30:ALA:HB1	15:AO:31:PRO:CD	2.14	0.78
16:AP:108:ARG:HH11	16:AP:108:ARG:HA	1.47	0.78
19:AS:75:ARG:CA	19:AS:80:PHE:HB2	2.04	0.78
19:AS:8:ARG:HD2	19:AS:8:ARG:C	2.03	0.78
21:AU:74:ARG:NH1	21:AU:81:PHE:HB3	1.96	0.78
50:B2:9:VAL:HG22	50:B2:53:LEU:C	2.03	0.78
51:B3:11:PRO:HA	51:B3:40:HIS:NE2	1.98	0.78
55:B7:23:VAL:HG11	55:B7:46:ARG:HB3	1.65	0.78
55:B7:3:LYS:NZ	55:B7:59:LYS:NZ	2.31	0.78
25:BA:973:A:O2'	25:BA:1188:U:H5	1.64	0.78
25:BA:1312:U:H3'	25:BA:1313:U:H5	1.48	0.78
25:BA:1531:C:C2	25:BA:1532:C:H5	2.01	0.78
25:BA:1556:C:H2'	25:BA:1557:C:H6	1.48	0.78
25:BA:1657:C:H6	25:BA:1657:C:O5'	1.67	0.78
25:BA:1669:A:C2	25:BA:1994:C:H1'	2.18	0.78
25:BA:1805:U:C2	25:BA:1813:G:N2	2.51	0.78
25:BA:1831:G:H2'	25:BA:1832:C:H6	1.47	0.78
1:AA:1407:C:O2'	25:BA:1912:A:N6	2.15	0.78
25:BA:2001:A:H2'	25:BA:2002:G:H8	1.47	0.78
25:BA:2064:C:H1'	25:BA:2450:A:C6	2.17	0.78
25:BA:2494:G:H2'	25:BA:2495:G:H5'	1.64	0.78
25:BA:293:U:C6	25:BA:293:U:H3'	2.18	0.78
25:BA:391:G:H2'	25:BA:392:C:C6	2.17	0.78
25:BA:641:C:O2'	25:BA:642:G:H5'	1.83	0.78
25:BA:722:A:O2'	25:BA:723:G:H5'	1.84	0.78
25:BA:745:G:O5'	25:BA:745:G:H8	1.66	0.78
25:BA:728:G:C6	25:BA:762:U:H3'	2.17	0.78
25:BA:791:C:N3	25:BA:794:G:C1'	2.46	0.78
25:BA:917:A:C2'	25:BA:918:A:H5''	2.13	0.78
28:BD:91:ARG:HH11	28:BD:91:ARG:HB2	1.48	0.78
29:BE:46:ALA:HB2	29:BE:85:ASN:HD21	1.46	0.78
31:BG:131:TYR:CD1	31:BG:158:ALA:HA	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:139:LEU:HD13	31:BG:142:PRO:HB3	1.66	0.78
31:BG:71:THR:HG22	31:BG:71:THR:O	1.83	0.78
35:BM:43:THR:HB	35:BM:44:PRO:CD	2.11	0.78
25:BA:2821:A:OP2	39:BQ:4:LEU:HD22	1.84	0.78
41:BS:55:ASN:ND2	41:BS:57:PHE:HE2	1.81	0.78
36:BN:122:LEU:HB2	41:BS:71:GLY:HA3	1.64	0.78
43:BU:12:TYR:CG	43:BU:13:ARG:N	2.46	0.78
43:BU:31:ALA:O	43:BU:64:HIS:O	2.01	0.78
43:BU:36:PRO:N	43:BU:61:VAL:HG22	1.98	0.78
46:BX:75:ILE:HG22	46:BX:100:ALA:CB	2.13	0.78
46:BX:1:MET:HA	46:BX:33:LYS:CG	2.13	0.78
47:BY:152:ALA:HB3	47:BY:168:GLU:HA	1.65	0.78
47:BY:53:ILE:O	47:BY:54:HIS:CG	2.36	0.78
25:BA:1069:A:H8	25:BA:1074:G:O6	1.65	0.78
34:BL:54:PRO:HG3	34:BL:73:PRO:HD3	1.64	0.78
1:AA:1035:A:C2'	1:AA:1036:G:H5'	2.14	0.78
8:AH:87:SER:HB3	8:AH:131:ILE:HG12	1.65	0.78
25:BA:2152:G:H2'	25:BA:2153:G:H8	1.48	0.78
1:AA:10:A:O2'	1:AA:11:G:H5'	1.83	0.78
1:AA:198:G:O2'	1:AA:199:G:C5'	2.30	0.78
1:AA:308:C:H6	1:AA:308:C:H5'	1.45	0.78
1:AA:533:A:H2'	1:AA:535:A:OP2	1.83	0.78
5:AE:104:ASN:HD21	5:AE:108:ILE:CG1	1.96	0.78
5:AE:124:SER:OG	5:AE:125:PRO:HD2	1.83	0.78
7:AG:19:LEU:H	7:AG:33:MET:CE	1.96	0.78
8:AH:121:LYS:HB3	8:AH:121:LYS:HZ2	1.48	0.78
9:AI:72:VAL:HG23	9:AI:73:ASN:H	1.46	0.78
11:AK:40:ALA:CA	11:AK:45:ILE:HG23	2.12	0.78
20:AT:75:ARG:NH2	20:AT:77:VAL:HG22	1.99	0.78
21:AU:50:ILE:HD13	21:AU:70:ILE:CD1	2.14	0.78
49:B1:27:LEU:HD11	49:B1:48:LEU:HB3	1.65	0.78
53:B5:19:ARG:HD3	53:B5:19:ARG:H	1.49	0.78
54:B6:41:ARG:CB	54:B6:41:ARG:NH1	2.46	0.78
55:B7:55:ALA:O	55:B7:59:LYS:HG2	1.84	0.78
25:BA:975:G:H21	25:BA:1156:A:N6	1.81	0.78
25:BA:1342:A:C2	25:BA:1397:U:H6	2.01	0.78
25:BA:1422:G:H2'	25:BA:1422:G:N3	1.96	0.78
25:BA:1567:A:H4'	25:BA:1568:G:C2	2.18	0.78
25:BA:1672:C:O2	25:BA:2582:G:C1'	2.31	0.78
25:BA:2014:A:C2'	25:BA:2015:A:C2	2.66	0.78
25:BA:562:U:C5	25:BA:2036:C:O4'	2.36	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2243:U:O2'	25:BA:2244:U:H5'	1.83	0.78
25:BA:2306:C:OP1	31:BG:136:ARG:HD3	1.83	0.78
25:BA:464:U:H6	25:BA:464:U:O5'	1.65	0.78
25:BA:499:U:C6	25:BA:503:A:N6	2.51	0.78
25:BA:623:G:P	37:BO:105:LEU:HD21	2.22	0.78
27:BC:59:ARG:NH1	27:BC:164:ARG:HH11	1.81	0.78
28:BD:145:VAL:O	28:BD:154:LYS:O	2.02	0.78
25:BA:1820:U:C2'	28:BD:202:LYS:HG3	2.14	0.78
30:BF:203:GLN:HA	30:BF:203:GLN:HE21	1.48	0.78
30:BF:36:VAL:HG11	30:BF:183:VAL:CG2	2.11	0.78
31:BG:111:LEU:HB3	31:BG:112:PRO:CD	2.14	0.78
31:BG:78:SER:HB3	31:BG:82:LEU:CD1	2.12	0.78
35:BM:34:LEU:HD23	35:BM:116:LEU:HD22	1.64	0.78
35:BM:18:ALA:HA	35:BM:21:LYS:HD2	1.66	0.78
36:BN:122:LEU:CA	41:BS:71:GLY:HA3	2.14	0.78
36:BN:97:ARG:HB2	36:BN:97:ARG:NH2	1.98	0.78
39:BQ:76:VAL:HG12	39:BQ:77:ARG:N	1.98	0.78
43:BU:61:VAL:HG12	43:BU:62:LEU:N	1.97	0.78
43:BU:7:THR:O	43:BU:11:GLN:NE2	2.16	0.78
46:BX:12:THR:HA	46:BX:73:ARG:HD2	1.64	0.78
33:BK:54:GLN:NE2	33:BK:57:ARG:HB3	1.99	0.78
33:BK:78:THR:C	33:BK:79:ILE:HD12	2.03	0.78
33:BK:93:THR:CG2	33:BK:96:ASP:H	1.95	0.78
1:AA:1236:A:H5'	1:AA:1305:G:OP1	1.82	0.78
1:AA:1064:G:OP1	1:AA:1386:G:H4'	1.82	0.78
1:AA:922:G:HO2'	1:AA:1398:A:H61	1.29	0.78
1:AA:153:C:H2'	1:AA:154:C:C6	2.18	0.78
1:AA:267:C:N4	1:AA:268:C:N4	2.31	0.78
1:AA:363:A:C5	15:AO:31:PRO:HD2	2.18	0.78
1:AA:689:C:C4	1:AA:690:G:N7	2.52	0.78
1:AA:715:A:H2'	1:AA:716:A:O4'	1.84	0.78
1:AA:718:G:N7	1:AA:719:C:N4	2.31	0.78
7:AG:12:CYS:SG	7:AG:19:LEU:O	2.41	0.78
8:AH:79:GLU:HG3	8:AH:93:PRO:HD2	1.66	0.78
1:AA:591:U:OP1	11:AK:30:ARG:NH2	2.16	0.78
13:AM:6:ILE:HG22	13:AM:98:ILE:HG13	1.64	0.78
21:AU:53:ARG:O	21:AU:55:ARG:N	2.16	0.78
24:AX:24:ARG:O	24:AX:25:LYS:HB2	1.82	0.78
25:BA:1024:G:N2	25:BA:1139:G:N2	2.31	0.78
25:BA:1517:G:H2'	25:BA:1518:C:O4'	1.84	0.78
25:BA:1830:C:O2'	25:BA:1831:G:H5'	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2193:G:H2'	25:BA:2194:G:H8	1.48	0.78
25:BA:2476:A:N7	25:BA:2477:C:C4	2.52	0.78
25:BA:2636:U:C4'	29:BE:79:ARG:HD3	2.12	0.78
25:BA:2748:A:N7	25:BA:2749:A:C6	2.52	0.78
27:BC:10:LEU:CD2	27:BC:33:ALA:HB2	2.12	0.78
27:BC:32:LEU:HD13	27:BC:220:PRO:CB	2.14	0.78
28:BD:109:ASP:HB2	28:BD:195:ALA:HB3	1.65	0.78
28:BD:177:LEU:HD21	28:BD:183:ARG:H	1.48	0.78
30:BF:184:TYR:H	30:BF:184:TYR:HD2	1.32	0.78
25:BA:1204:A:H2	30:BF:188:ARG:CA	1.93	0.78
30:BF:6:VAL:CA	30:BF:20:LEU:CD2	2.56	0.78
31:BG:61:ALA:HB2	31:BG:67:LYS:CB	2.09	0.78
33:BK:7:GLU:C	33:BK:14:ASP:HA	2.03	0.78
36:BN:90:GLN:HE22	36:BN:110:GLY:C	1.86	0.78
37:BO:97:PRO:HA	37:BO:102:ARG:NE	1.99	0.78
39:BQ:33:ARG:HB2	39:BQ:115:GLU:HB3	1.65	0.78
42:BT:57:PHE:CD2	42:BT:60:LEU:HD22	2.18	0.78
43:BU:14:VAL:HG11	43:BU:19:LYS:CG	2.14	0.78
43:BU:60:GLU:HG3	43:BU:100:ARG:O	1.83	0.78
45:BW:12:VAL:HG22	45:BW:29:TRP:CE2	2.17	0.78
46:BX:14:LEU:HB3	46:BX:17:SER:OG	1.84	0.78
47:BY:171:ILE:O	47:BY:171:ILE:HD12	1.84	0.78
33:BK:128:LEU:HB3	33:BK:130:TYR:CZ	2.17	0.78
33:BK:95:LYS:O	33:BK:98:ALA:HB3	1.83	0.78
1:AA:192:U:H2'	1:AA:193:C:C6	2.19	0.78
1:AA:595:G:C8	1:AA:641:U:N3	2.51	0.78
5:AE:169:LYS:NZ	5:AE:170:GLU:HA	1.99	0.78
7:AG:154:ASN:HD22	7:AG:154:ASN:N	1.77	0.78
8:AH:76:ILE:HG21	8:AH:142:LEU:HD13	1.66	0.78
10:AJ:76:ARG:HB2	10:AJ:156:TRP:NE1	1.98	0.78
11:AK:109:ILE:HG12	11:AK:137:VAL:H	1.49	0.78
11:AK:6:ILE:HG23	11:AK:85:ARG:HH12	1.47	0.78
11:AK:87:SER:OG	11:AK:93:VAL:HG23	1.84	0.78
15:AO:86:ARG:HB3	15:AO:101:VAL:HG13	1.66	0.78
16:AP:7:VAL:HG13	31:BG:114:ILE:CD1	2.13	0.78
1:AA:760:G:H2'	20:AT:103:GLY:O	1.84	0.78
49:B1:55:LEU:O	49:B1:58:VAL:HG13	1.84	0.78
51:B3:5:ILE:HD13	51:B3:60:GLN:HE22	1.46	0.78
54:B6:25:PRO:HB2	54:B6:29:LYS:HZ1	1.45	0.78
54:B6:26:GLY:HA2	54:B6:29:LYS:HD2	1.66	0.78
55:B7:20:GLY:O	55:B7:57:ARG:NH2	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1114:G:N2	25:BA:1115:G:H1'	1.97	0.78
25:BA:1174:A:N3	25:BA:1175:U:H5''	1.99	0.78
25:BA:1359:A:N6	25:BA:1371:G:H21	1.82	0.78
25:BA:1392:A:C6	25:BA:1393:A:N6	2.52	0.78
25:BA:1783:A:H5''	25:BA:1784:A:OP1	1.82	0.78
25:BA:1913:A:C6	25:BA:1918:A:N7	2.51	0.78
25:BA:2072:G:H2'	25:BA:2073:C:C6	2.18	0.78
25:BA:2246:G:H2'	25:BA:2247:A:H8	1.47	0.78
25:BA:386:G:H4'	25:BA:387:U:C5	2.18	0.78
25:BA:467:G:C2'	25:BA:468:G:H5'	2.13	0.78
25:BA:748:G:H3'	25:BA:750:A:OP2	1.83	0.78
25:BA:829:A:H5''	25:BA:830:G:C5'	2.13	0.78
25:BA:864:G:H2'	25:BA:865:C:C6	2.18	0.78
25:BA:981:A:OP2	25:BA:982:C:N4	2.17	0.78
28:BD:97:TYR:HB2	28:BD:101:GLU:O	1.83	0.78
28:BD:227:ASN:H	28:BD:227:ASN:ND2	1.81	0.78
28:BD:7:LYS:NZ	28:BD:91:ARG:HE	1.81	0.78
31:BG:47:LYS:CB	31:BG:53:LEU:HD11	2.07	0.78
31:BG:78:SER:HB2	31:BG:82:LEU:O	1.82	0.78
31:BG:9:ARG:HH11	31:BG:9:ARG:HG3	1.47	0.78
32:BH:24:VAL:HG22	32:BH:35:VAL:O	1.83	0.78
32:BH:9:ILE:N	32:BH:51:ARG:NH1	2.26	0.78
33:BK:5:LEU:N	33:BK:5:LEU:HD23	1.98	0.78
35:BM:55:VAL:HG11	35:BM:127:ASP:HB3	1.66	0.78
35:BM:72:TYR:C	35:BM:72:TYR:CD2	2.57	0.78
40:BR:40:ILE:CG2	40:BR:41:ASP:H	1.97	0.78
41:BS:104:ASN:O	41:BS:107:ASP:HB2	1.83	0.78
43:BU:39:LEU:O	43:BU:40:LEU:HD12	1.82	0.78
43:BU:67:GLY:O	43:BU:68:LYS:HB2	1.83	0.78
47:BY:104:PHE:CE1	47:BY:171:ILE:HD11	2.18	0.78
1:AA:1104:G:O2'	1:AA:1105:A:H5'	1.82	0.78
1:AA:1137:C:H4'	1:AA:1138:G:N2	1.97	0.78
1:AA:1298:C:C5	10:AJ:114:ARG:HB3	2.18	0.78
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.18	0.78
1:AA:371:G:O2'	1:AA:372:C:C5'	2.28	0.78
1:AA:817:C:O2'	1:AA:818:G:O5'	2.01	0.78
3:AD:9:A:N3	3:AD:46:G:H1'	1.99	0.78
7:AG:101:LEU:HD11	7:AG:121:VAL:HG13	1.65	0.78
10:AJ:94:ARG:HG3	10:AJ:94:ARG:NH1	1.96	0.78
11:AK:112:LEU:CD1	11:AK:114:THR:HG22	2.13	0.78
19:AS:66:PRO:HD2	19:AS:71:ARG:NH2	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:5:VAL:CG1	20:AT:6:LEU:N	2.46	0.78
20:AT:81:ARG:O	20:AT:84:LEU:HD11	1.83	0.78
23:AW:63:ILE:HD13	23:AW:80:ARG:CB	2.13	0.78
25:BA:1451:C:H3'	25:BA:1453:A:H4'	0.89	0.78
25:BA:142:G:OP1	25:BA:1598:C:H1'	1.84	0.78
25:BA:1773:A:H2'	25:BA:1774:C:H5'	1.66	0.78
25:BA:1941:C:H2'	25:BA:1942:C:O5'	1.82	0.78
25:BA:2065:C:H2'	25:BA:2066:C:C6	2.18	0.78
25:BA:2165:G:H2'	25:BA:2166:G:O4'	1.83	0.78
25:BA:2199:A:C4	25:BA:2225:A:C2	2.70	0.78
25:BA:2478:A:H5'	56:B8:31:LYS:HZ3	1.47	0.78
25:BA:270(C):C:OP2	25:BA:365:C:O2'	2.00	0.78
25:BA:310:A:H2'	25:BA:312:G:N7	1.99	0.78
25:BA:327:G:C2	25:BA:328:U:C6	2.71	0.78
25:BA:371:A:N7	25:BA:424:G:O4'	2.17	0.78
25:BA:371:A:O2'	25:BA:372:G:OP1	2.00	0.78
25:BA:449:A:H4'	30:BF:52:LYS:HZ2	1.48	0.78
25:BA:598:G:O2'	37:BO:14:LYS:HE3	1.84	0.78
25:BA:626:U:H4'	25:BA:653:A:C2	2.19	0.78
25:BA:716:A:C2'	25:BA:717:G:H5'	2.13	0.78
25:BA:725:G:H2'	25:BA:726:G:O4'	1.83	0.78
27:BC:85:GLU:HG2	27:BC:150:GLY:CA	2.13	0.78
28:BD:7:LYS:HZ2	28:BD:91:ARG:HE	1.30	0.78
28:BD:84:TYR:HB3	28:BD:91:ARG:HG3	1.66	0.78
25:BA:618:G:OP1	30:BF:106:ARG:HD2	1.82	0.78
36:BN:34:THR:HG22	36:BN:35:VAL:HG23	1.64	0.78
36:BN:97:ARG:HG3	36:BN:97:ARG:O	1.83	0.78
42:BT:33:ARG:HH11	42:BT:33:ARG:CB	1.97	0.78
42:BT:53:ARG:HH11	42:BT:53:ARG:CB	1.97	0.78
25:BA:1223:C:N4	43:BU:88:ARG:NH2	2.32	0.78
1:AA:1068:G:N7	1:AA:1094:G:C8	2.52	0.78
1:AA:1210:C:C4'	1:AA:1214:C:H42	1.97	0.78
1:AA:130:A:H5''	1:AA:190:G:H2'	1.65	0.78
1:AA:474:G:H5'	19:AS:81:ARG:HH21	1.46	0.78
1:AA:67:C:O4'	1:AA:172:A:H1'	1.84	0.78
1:AA:776:G:H5''	1:AA:777:A:OP1	1.84	0.78
3:AD:18:G:N2	3:AD:57:G:H2'	1.99	0.78
5:AE:104:ASN:HD21	5:AE:108:ILE:HG12	1.47	0.78
6:AF:132:ARG:O	6:AF:135:LYS:HB2	1.84	0.78
6:AF:46:GLU:O	6:AF:47:LEU:HD13	1.83	0.78
7:AG:31:CYS:O	7:AG:33:MET:HG2	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:540:G:N3	7:AG:42:GLN:NE2	2.32	0.78
7:AG:65:ARG:HB2	7:AG:75:PHE:CE2	2.19	0.78
10:AJ:45:ASP:O	10:AJ:49:ILE:HD12	1.83	0.78
14:AN:84:VAL:CG2	14:AN:111:ASP:H	1.96	0.78
6:AF:12:LEU:HD13	17:AQ:57:ARG:HG3	1.65	0.78
21:AU:18:ARG:NH2	21:AU:21:LYS:HB2	1.98	0.78
23:AW:56:MET:SD	23:AW:84:LEU:HD12	2.23	0.78
53:B5:20:ASN:ND2	53:B5:43:CYS:N	2.26	0.78
25:BA:13:A:C2	25:BA:526:A:N7	2.52	0.78
25:BA:1542:G:C1'	25:BA:1543:A:C6	2.55	0.78
25:BA:1632:A:H8	25:BA:1632:A:O5'	1.67	0.78
25:BA:2225:A:H5'	25:BA:2226:C:C6	2.17	0.78
25:BA:2266:A:H5'	25:BA:2267:A:C2	2.19	0.78
25:BA:228:A:H8	25:BA:230:U:OP1	1.67	0.78
25:BA:2691:C:C4	25:BA:2719:G:N2	2.52	0.78
25:BA:246:C:O2'	25:BA:385:C:H5'	1.84	0.78
25:BA:458:G:O2'	25:BA:459:U:OP2	2.02	0.78
25:BA:705:A:N3	25:BA:705:A:H2'	1.98	0.78
25:BA:930:U:O2'	25:BA:931:G:OP2	2.02	0.78
25:BA:1805:U:H1'	28:BD:51:VAL:HG13	1.64	0.78
29:BE:142:GLY:C	29:BE:143:ASN:HD22	1.86	0.78
32:BH:9:ILE:H	32:BH:51:ARG:HH11	0.85	0.78
35:BM:39:ARG:O	35:BM:42:TRP:CD2	2.37	0.78
37:BO:124:LYS:HG2	37:BO:138:LEU:HA	1.66	0.78
38:BP:36:ALA:C	38:BP:100:GLY:HA2	2.04	0.78
40:BR:11:LYS:HB2	40:BR:11:LYS:NZ	1.99	0.78
42:BT:62:ILE:HG22	42:BT:66:ASN:HD21	1.46	0.78
43:BU:68:LYS:O	43:BU:69:LYS:CB	2.30	0.78
25:BA:1076:C:H2'	34:BL:91:PRO:HD2	1.66	0.78
1:AA:1142:G:O2'	1:AA:1143:G:H5'	1.83	0.78
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.15	0.78
1:AA:192:U:H2'	1:AA:193:C:H6	1.47	0.78
1:AA:300:A:H2'	1:AA:301:G:O4'	1.83	0.78
1:AA:483:C:N4	1:AA:484:G:C2	2.51	0.78
1:AA:665:A:H2'	1:AA:725:G:H21	1.49	0.78
2:AC:72:A:H2'	2:AC:73:A:C8	2.19	0.78
5:AE:75:LYS:HA	5:AE:75:LYS:HZ3	1.48	0.78
7:AG:57:ARG:HD2	7:AG:202:LEU:HD23	1.66	0.78
8:AH:121:LYS:NZ	8:AH:122:GLU:N	2.31	0.78
9:AI:36:ARG:O	9:AI:65:VAL:HB	1.84	0.78
11:AK:109:ILE:HD13	11:AK:137:VAL:HB	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:49:VAL:O	13:AM:60:ARG:HA	1.84	0.78
13:AM:79:ARG:HA	13:AM:79:ARG:NH1	1.98	0.78
14:AN:101:SER:O	14:AN:103:LEU:N	2.17	0.78
14:AN:91:ARG:O	14:AN:95:ILE:HG13	1.84	0.78
15:AO:32:PHE:CB	15:AO:84:LEU:HD21	2.13	0.78
16:AP:14:ARG:H	16:AP:44:ARG:CZ	1.97	0.78
16:AP:92:HIS:CE1	16:AP:110:ARG:NH2	2.51	0.78
1:AA:761:G:H5'	20:AT:103:GLY:N	1.98	0.78
23:AW:87:LYS:HG3	23:AW:91:LEU:HD21	1.65	0.78
49:B1:52:ILE:HA	49:B1:55:LEU:HD13	1.64	0.78
52:B4:11:THR:HG23	52:B4:15:ARG:HD3	1.66	0.78
25:BA:140:A:C2	25:BA:1408:C:H1'	2.19	0.78
25:BA:1775:U:C3'	25:BA:1775:U:C6	2.41	0.78
25:BA:1788:C:O5'	25:BA:1788:C:H6	1.67	0.78
25:BA:2083:G:O2'	25:BA:2084:C:H5'	1.84	0.78
25:BA:2178:C:H5''	27:BC:46:LYS:HZ2	1.49	0.78
25:BA:252:G:H21	25:BA:253:C:H1'	1.49	0.78
25:BA:2675:A:O2'	25:BA:2676:C:H5'	1.82	0.78
25:BA:2754:U:H6	25:BA:2754:U:O5'	1.66	0.78
25:BA:61:G:H5'	49:B1:45:ILE:CD1	2.13	0.78
25:BA:627:A:C8	37:BO:115:LEU:HD11	2.17	0.78
26:BB:51:G:H2'	26:BB:52:A:O5'	1.83	0.78
27:BC:59:ARG:CD	27:BC:164:ARG:HG2	2.12	0.78
28:BD:42:GLY:HA3	28:BD:60:ARG:HH22	1.49	0.78
28:BD:91:ARG:HH11	28:BD:91:ARG:N	1.82	0.78
32:BH:74:ASN:HB2	32:BH:138:LYS:NZ	1.98	0.78
33:BK:2:LYS:NZ	33:BK:39:ALA:HB1	1.99	0.78
35:BM:55:VAL:HG22	35:BM:129:PRO:HG2	1.66	0.78
36:BN:24:VAL:CG2	36:BN:26:LYS:HG2	2.14	0.78
25:BA:2406:U:C4	37:BO:65:ARG:HB3	2.18	0.78
39:BQ:13:HIS:HD2	39:BQ:16:HIS:CE1	2.02	0.78
40:BR:67:ARG:HD3	40:BR:103:GLU:HB3	1.65	0.78
41:BS:45:PHE:CZ	41:BS:87:ASP:HB2	2.19	0.78
41:BS:54:ARG:HA	41:BS:100:TYR:CD2	2.18	0.78
41:BS:50:ILE:CG2	41:BS:68:TYR:HB3	2.14	0.78
47:BY:104:PHE:HE1	47:BY:171:ILE:HD11	1.47	0.78
1:AA:1159:U:H5'	1:AA:1160:G:OP1	1.84	0.78
1:AA:1454:G:H2'	1:AA:1455:G:H8	1.48	0.78
1:AA:370:C:H2'	1:AA:371:G:H8	1.45	0.78
1:AA:432:A:C8	1:AA:433:C:C6	2.72	0.78
1:AA:697:U:O5'	1:AA:697:U:H6	1.67	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:73:PRO:HB3	6:AF:105:GLU:OE1	1.84	0.78
10:AJ:70:LYS:HA	10:AJ:100:ALA:HB2	1.66	0.78
17:AQ:22:THR:HB	17:AQ:33:VAL:HG23	1.64	0.78
20:AT:82:MET:O	20:AT:85:VAL:HB	1.84	0.78
50:B2:40:THR:HG22	50:B2:42:ALA:H	1.47	0.78
25:BA:1153:C:H2'	25:BA:1154:G:H8	1.46	0.78
25:BA:1477:A:C2	25:BA:1516:U:C2	2.72	0.78
25:BA:1889:A:H2'	25:BA:1890:A:C8	2.19	0.78
25:BA:1913:A:N9	25:BA:1918:A:N6	2.32	0.78
25:BA:2023:G:N2	25:BA:2041:U:C2	2.50	0.78
25:BA:2126:A:H1'	25:BA:2162:G:H21	1.45	0.78
25:BA:2094:G:N2	25:BA:2196:C:H1'	1.97	0.78
25:BA:2459:A:H2	25:BA:2460:U:O2	1.65	0.78
25:BA:2074:U:O2'	25:BA:2598:A:H1'	1.83	0.78
25:BA:2720:U:C3'	25:BA:2721:A:H8	1.95	0.78
25:BA:452:G:H2'	25:BA:457:A:N6	1.99	0.78
25:BA:457:A:H4'	25:BA:459:U:O2	1.84	0.78
28:BD:121:PRO:HA	28:BD:135:PHE:HE2	1.49	0.78
28:BD:246:PRO:HD2	28:BD:250:TRP:HB2	1.64	0.78
28:BD:5:LYS:HB3	28:BD:29:PRO:HB3	1.66	0.78
29:BE:152:LYS:CE	35:BM:77:GLY:HA3	2.14	0.78
29:BE:151:TYR:CG	29:BE:152:LYS:N	2.48	0.78
29:BE:106:GLY:O	29:BE:164:ARG:HG2	1.83	0.78
29:BE:58:ARG:HH11	29:BE:75:VAL:HG13	1.48	0.78
29:BE:81:ILE:HG22	29:BE:82:ARG:HG2	1.66	0.78
31:BG:126:ASP:HA	31:BG:166:ASP:OD1	1.83	0.78
31:BG:56:ALA:HA	31:BG:59:GLU:OE1	1.84	0.78
35:BM:57:ALA:HB3	35:BM:124:ALA:HB2	1.66	0.78
36:BN:68:GLU:HA	36:BN:104:ARG:NH1	1.99	0.78
36:BN:10:VAL:CG1	36:BN:11:ALA:H	1.89	0.78
36:BN:88:ASN:O	36:BN:90:GLN:N	2.17	0.78
40:BR:56:LEU:HB3	40:BR:59:LYS:HD2	1.63	0.78
25:BA:533:G:OP1	42:BT:24:TYR:HB3	1.84	0.78
43:BU:62:LEU:HD11	43:BU:98:GLU:HG2	1.65	0.78
25:BA:456:C:H5	45:BW:68:ARG:HH12	1.30	0.78
33:BK:87:LYS:HE2	33:BK:121:LYS:HG3	1.65	0.78
34:BL:106:GLU:HA	34:BL:109:LYS:HE3	1.66	0.78
34:BL:18:THR:HG21	34:BL:35:MET:HG2	1.65	0.78
1:AA:843:U:H3	5:AE:37:ASN:HD22	1.29	0.78
1:AA:1117:G:H5'	1:AA:1118:C:OP2	1.83	0.78
1:AA:1405:G:C2	1:AA:1406:U:H5	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:719:C:H3'	1:AA:720:C:C5	2.19	0.78
6:AF:84:ILE:HD11	6:AF:88:ARG:NH2	1.99	0.78
7:AG:172:PRO:HG3	7:AG:193:ASP:CB	2.13	0.78
7:AG:34:GLU:OE2	7:AG:35:ARG:HG2	1.83	0.78
7:AG:58:LEU:CD1	7:AG:59:ARG:HH11	1.95	0.78
8:AH:76:ILE:HD12	8:AH:142:LEU:HD13	1.65	0.78
8:AH:53:LEU:H	8:AH:53:LEU:HD23	1.49	0.78
10:AJ:66:VAL:O	10:AJ:70:LYS:HG3	1.84	0.78
19:AS:6:LEU:HB2	19:AS:17:TYR:HB3	1.66	0.78
50:B2:54:VAL:HG22	50:B2:55:ARG:N	1.97	0.78
37:BO:49:ARG:HG2	55:B7:52:LYS:HG3	1.64	0.78
25:BA:1024:G:C5	25:BA:1025:G:C8	2.72	0.78
25:BA:1131:G:OP1	35:BM:79:PRO:HD3	1.83	0.78
25:BA:1197:G:C2'	25:BA:1198:U:O5'	2.32	0.78
25:BA:1203:G:C5	25:BA:1240:U:N3	2.51	0.78
25:BA:1528:A:C8	25:BA:1529:A:C2	2.72	0.78
25:BA:2056:G:N2	52:B4:4:HIS:HD2	1.82	0.78
25:BA:2139:C:O2'	25:BA:2140:C:H5'	1.84	0.78
25:BA:2317:C:N4	25:BA:2318:G:O6	2.15	0.78
25:BA:2686:G:N3	25:BA:2687:U:H6	1.82	0.78
25:BA:295:G:H2'	25:BA:338:G:H22	1.49	0.78
25:BA:484:C:H2'	25:BA:485:C:C6	2.18	0.78
25:BA:650:C:H2'	25:BA:651:G:C5'	2.13	0.78
25:BA:59:U:O4'	25:BA:73:A:C2	2.37	0.78
27:BC:116:THR:CG2	27:BC:149:ILE:HB	2.14	0.78
28:BD:76:PRO:HA	28:BD:118:VAL:HG22	1.66	0.78
29:BE:116:VAL:O	29:BE:120:TRP:HD1	1.67	0.78
25:BA:449:A:H4'	30:BF:52:LYS:NZ	1.99	0.78
31:BG:151:ALA:O	31:BG:152:LEU:HG	1.84	0.78
35:BM:106:MET:O	35:BM:108:PRO:HD3	1.84	0.78
37:BO:108:LYS:HD3	37:BO:109:GLY:N	1.98	0.78
37:BO:76:LYS:HA	37:BO:101:VAL:CG1	2.13	0.78
41:BS:50:ILE:HB	41:BS:66:VAL:CB	2.12	0.78
42:BT:102:GLU:OE2	42:BT:103:PRO:HD2	1.84	0.78
43:BU:34:GLU:HA	43:BU:62:LEU:O	1.84	0.78
44:BV:72:LYS:O	44:BV:106:ILE:HG22	1.83	0.78
44:BV:58:ALA:HA	44:BV:62:HIS:HB3	1.66	0.78
25:BA:1062:G:N2	34:BL:91:PRO:HG3	1.98	0.78
25:BA:1076:C:H4'	34:BL:93:ARG:CZ	2.13	0.78
1:AA:1406:U:O2	1:AA:1406:U:C2'	2.31	0.77
1:AA:565:U:H3'	1:AA:566:G:C8	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:592:G:O2'	1:AA:593:G:H5'	1.84	0.77
1:AA:649:G:H2'	1:AA:650:G:H8	1.48	0.77
14:AN:99:GLN:CB	14:AN:105:VAL:HG11	2.14	0.77
15:AO:100:ILE:HD13	15:AO:100:ILE:N	1.98	0.77
13:AM:49:VAL:CG1	17:AQ:45:ARG:HD2	2.14	0.77
51:B3:42:PHE:O	51:B3:61:ARG:NH1	2.13	0.77
54:B6:41:ARG:HB2	54:B6:41:ARG:NH1	1.98	0.77
55:B7:30:ARG:NH1	55:B7:44:LYS:HB2	1.99	0.77
25:BA:1011:G:C2'	25:BA:1013:C:H5''	2.14	0.77
25:BA:1156:A:OP1	42:BT:55:ARG:NH1	2.17	0.77
25:BA:1183:G:H4'	25:BA:1184:G:O5'	1.84	0.77
25:BA:811:U:H1'	25:BA:1251:C:O2	1.85	0.77
25:BA:1515:C:O2'	25:BA:1516:U:OP1	2.00	0.77
25:BA:1520:U:H6	25:BA:1520:U:H3'	1.47	0.77
25:BA:1891:G:H3'	25:BA:1892:C:H6	1.49	0.77
25:BA:2061:G:HO2'	25:BA:2063:C:H5	1.31	0.77
25:BA:272:G:H2'	25:BA:273:G:O4'	1.82	0.77
25:BA:612:G:C2'	25:BA:615:G:H2'	2.13	0.77
25:BA:669:G:N7	30:BF:54:ARG:NE	2.32	0.77
25:BA:848:G:H1'	25:BA:934:G:O4'	1.84	0.77
25:BA:848:G:H2'	25:BA:849:A:N7	1.98	0.77
25:BA:859:G:O2'	25:BA:860:U:H5''	1.83	0.77
28:BD:246:PRO:HG2	28:BD:250:TRP:HB2	1.66	0.77
28:BD:268:ARG:HH22	28:BD:272:ALA:HB2	1.47	0.77
31:BG:75:LYS:HG2	31:BG:84:LYS:HB2	1.65	0.77
36:BN:89:ASN:ND2	36:BN:91:LEU:HB2	1.99	0.77
37:BO:74:GLU:HB3	37:BO:111:ARG:O	1.83	0.77
37:BO:88:LEU:HD21	37:BO:124:LYS:HE3	1.66	0.77
40:BR:94:TYR:CD1	40:BR:94:TYR:N	2.50	0.77
36:BN:122:LEU:HA	41:BS:71:GLY:CA	2.14	0.77
45:BW:7:VAL:HG21	49:B1:31:ARG:CZ	2.13	0.77
46:BX:12:THR:O	46:BX:22:GLY:HA3	1.84	0.77
1:AA:748:C:C6	1:AA:748:C:H3'	2.19	0.77
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.49	0.77
1:AA:125:U:H2'	1:AA:126:G:C8	2.20	0.77
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.19	0.77
1:AA:1465:C:N3	1:AA:1466:C:C6	2.52	0.77
1:AA:883:C:H5'	1:AA:884:U:OP2	1.85	0.77
1:AA:889:A:H5''	1:AA:890:G:OP1	1.84	0.77
1:AA:900:A:C5	1:AA:901:A:N6	2.52	0.77
1:AA:986:A:H2'	1:AA:987:G:H8	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:4:G:H2'	2:AC:5:G:H8	1.49	0.77
3:AD:3:C:H2'	3:AD:4:G:H8	1.48	0.77
5:AE:80:ILE:HG23	5:AE:212:GLN:NE2	1.99	0.77
5:AE:22:LYS:O	5:AE:24:TRP:CD1	2.37	0.77
10:AJ:26:PHE:HE1	10:AJ:105:VAL:HG22	1.47	0.77
11:AK:4:ASP:OD2	11:AK:7:ALA:HB3	1.85	0.77
14:AN:48:ILE:HG23	14:AN:63:LEU:HD13	1.63	0.77
14:AN:27:ASN:HA	14:AN:55:LYS:O	1.83	0.77
16:AP:78:ILE:O	16:AP:82:MET:HB2	1.84	0.77
1:AA:255:G:H1'	20:AT:16:GLN:HE21	1.48	0.77
20:AT:40:LYS:NZ	20:AT:42:TYR:CE1	2.52	0.77
22:AV:22:LEU:HD23	22:AV:22:LEU:O	1.83	0.77
25:BA:96:G:H4'	49:B1:43:HIS:CE1	2.18	0.77
51:B3:42:PHE:CD1	51:B3:43:TYR:N	2.52	0.77
51:B3:47:GLN:CA	51:B3:52:THR:OG1	2.32	0.77
52:B4:20:ARG:HA	52:B4:23:HIS:HD2	1.49	0.77
53:B5:15:GLU:OE2	53:B5:21:TYR:HB3	1.83	0.77
25:BA:1273:U:H4'	25:BA:1275:A:P	2.24	0.77
25:BA:1515:C:OP1	25:BA:1515:C:C6	2.37	0.77
25:BA:1543:A:OP2	25:BA:1544:C:C6	2.37	0.77
25:BA:1687:G:C2	25:BA:1688:U:C5	2.72	0.77
25:BA:1935:G:H2'	25:BA:1962:C:N4	1.99	0.77
25:BA:2205:C:H2'	25:BA:2206:C:H5'	1.65	0.77
25:BA:2261:C:O4'	25:BA:2388:A:H1'	1.84	0.77
25:BA:2681:C:H5	25:BA:2727:G:C2	2.03	0.77
25:BA:283:A:H3'	25:BA:284:U:H6	1.47	0.77
26:BB:46:A:H2'	26:BB:47:C:C6	2.19	0.77
27:BC:139:ASN:HB3	27:BC:142:ALA:HB3	1.66	0.77
25:BA:2122:U:H4'	27:BC:166:ASP:CB	2.12	0.77
31:BG:110:ALA:HB1	31:BG:139:LEU:CD2	2.11	0.77
31:BG:55:LYS:CB	31:BG:152:LEU:HD11	2.12	0.77
32:BH:9:ILE:HG13	32:BH:69:ARG:NH1	1.96	0.77
35:BM:38:HIS:C	35:BM:42:TRP:HE3	1.87	0.77
36:BN:24:VAL:HG11	36:BN:32:TYR:N	1.99	0.77
36:BN:99:PHE:CE1	41:BS:72:VAL:HG21	2.19	0.77
37:BO:97:PRO:HD3	37:BO:102:ARG:NH2	1.99	0.77
38:BP:109:VAL:HB	38:BP:114:ALA:HB2	1.66	0.77
38:BP:22:LYS:CE	38:BP:23:GLY:H	1.96	0.77
29:BE:8:LYS:HD2	41:BS:3:ARG:CG	2.15	0.77
42:BT:17:ILE:HA	42:BT:20:LEU:HG	1.66	0.77
47:BY:50:GLN:HB2	47:BY:53:ILE:HD12	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1442:G:H4'	1:AA:1443:G:OP2	1.83	0.77
1:AA:843:U:H3	5:AE:37:ASN:HA	1.49	0.77
1:AA:87:A:N7	1:AA:88:C:C4	2.52	0.77
1:AA:208:U:H4'	1:AA:209:U:OP1	1.82	0.77
1:AA:1075:C:H2'	1:AA:1075:C:O2	1.83	0.77
1:AA:161:A:H2'	1:AA:162:A:O4'	1.85	0.77
7:AG:62:GLN:HA	7:AG:62:GLN:HE21	1.49	0.77
14:AN:80:VAL:O	14:AN:106:LYS:HB3	1.83	0.77
50:B2:7:LYS:HE3	50:B2:33:GLN:N	1.99	0.77
51:B3:38:LYS:HD3	51:B3:39:CYS:N	1.98	0.77
53:B5:32:ASN:CG	53:B5:33:LYS:N	2.34	0.77
55:B7:25:MET:HB2	55:B7:27:THR:HG22	1.66	0.77
25:BA:1023:U:H2'	25:BA:1024:G:C5'	2.11	0.77
25:BA:1272:A:O2'	25:BA:1273:U:OP1	2.01	0.77
25:BA:1469:A:N6	25:BA:1522:G:N1	2.31	0.77
25:BA:1759:A:O2'	25:BA:1760:A:H5'	1.84	0.77
25:BA:1965:C:H3'	25:BA:1966:A:H8	1.50	0.77
25:BA:2093:G:H5'	33:BK:25:TYR:CG	2.19	0.77
25:BA:271(B):G:C3'	25:BA:271(C):U:H5'	2.14	0.77
25:BA:446:G:OP1	42:BT:3:ARG:HD3	1.84	0.77
25:BA:531:C:H5'	25:BA:532:A:N3	1.99	0.77
25:BA:716:A:H2'	25:BA:717:G:C5'	2.15	0.77
25:BA:751:A:O4'	44:BV:90:ARG:HD3	1.85	0.77
25:BA:776:G:H1'	25:BA:793:A:N1	2.00	0.77
25:BA:975:G:C2	25:BA:976:C:C6	2.72	0.77
25:BA:975:G:H2'	25:BA:975:G:N3	2.00	0.77
26:BB:56:G:O2'	26:BB:57:A:H5'	1.84	0.77
27:BC:104:LEU:HD21	27:BC:126:LYS:HE2	1.64	0.77
28:BD:60:ARG:HA	28:BD:62:TYR:OH	1.84	0.77
25:BA:2680:C:H4'	29:BE:187:ALA:O	1.84	0.77
29:BE:51:PHE:HE1	29:BE:76:ARG:H	1.33	0.77
31:BG:39:ILE:CD1	31:BG:92:VAL:HB	2.14	0.77
32:BH:33:LEU:CD2	32:BH:35:VAL:HG13	2.13	0.77
35:BM:12:ARG:HB3	35:BM:12:ARG:CZ	2.14	0.77
35:BM:16:ILE:HG22	35:BM:21:LYS:HZ1	1.48	0.77
35:BM:66:LYS:HA	35:BM:87:LEU:CD1	2.15	0.77
35:BM:89:LYS:HE2	35:BM:89:LYS:H	0.95	0.77
37:BO:46:LYS:NZ	37:BO:50:ARG:NE	2.31	0.77
25:BA:2393:A:C5'	37:BO:56:SER:H	1.97	0.77
37:BO:57:THR:HG22	37:BO:58:THR:N	1.98	0.77
39:BQ:57:ARG:HE	39:BQ:62:ALA:HB2	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:47:TYR:CE1	43:BU:77:ALA:HB2	2.18	0.77
25:BA:1249:U:H5''	42:BT:4:ALA:CB	2.13	0.77
43:BU:43:GLU:H	43:BU:44:LYS:NZ	1.80	0.77
47:BY:105:VAL:C	47:BY:107:THR:H	1.87	0.77
12:AL:53:VAL:O	12:AL:54:ASP:HB2	1.84	0.77
1:AA:1408:A:C2	1:AA:1495:U:C5	2.71	0.77
1:AA:236:G:H2'	1:AA:237:C:H6	1.48	0.77
1:AA:37:U:O4	1:AA:397:A:C6	2.37	0.77
1:AA:720:C:C2	1:AA:721:G:N7	2.52	0.77
1:AA:820:U:H2'	1:AA:820:U:O2	1.84	0.77
1:AA:872:A:O2'	1:AA:873:A:OP1	2.01	0.77
5:AE:87:ARG:CZ	5:AE:233:SER:HA	2.14	0.77
14:AN:21:ILE:HD11	14:AN:82:VAL:CG1	2.13	0.77
18:AR:39:LEU:C	18:AR:39:LEU:HD23	2.04	0.77
23:AW:20:LEU:HD23	23:AW:20:LEU:N	2.00	0.77
49:B1:36:ILE:HG23	49:B1:41:GLN:HE22	1.50	0.77
25:BA:973:A:C1'	25:BA:1188:U:O4	2.33	0.77
25:BA:149:A:N6	25:BA:150:C:N3	2.32	0.77
25:BA:150:C:O2	25:BA:150:C:H2'	1.83	0.77
25:BA:1565:C:C4	25:BA:1567:A:H1'	2.19	0.77
25:BA:1592:C:H2'	25:BA:1593:G:H8	1.47	0.77
25:BA:226:G:C2	25:BA:227:A:C2	2.73	0.77
25:BA:2291:U:H1'	25:BA:2374:C:H1'	1.65	0.77
25:BA:2415:G:H5''	37:BO:61:ARG:CB	2.14	0.77
25:BA:2625:G:H3'	25:BA:2626:C:C5	2.20	0.77
25:BA:2639:A:H1'	25:BA:2778:A:C2	2.19	0.77
25:BA:297:C:H2'	25:BA:298:G:O4'	1.84	0.77
25:BA:360:G:H8	25:BA:360:G:O5'	1.68	0.77
25:BA:383:U:C2	25:BA:385:C:C4	2.73	0.77
25:BA:388:G:H5'	25:BA:389:G:OP2	1.84	0.77
25:BA:431:U:C3'	25:BA:431:U:C6	2.65	0.77
25:BA:431:U:C3'	25:BA:431:U:H6	1.97	0.77
25:BA:556:G:H2'	25:BA:557:U:H6	1.47	0.77
25:BA:594:U:H2'	25:BA:595:C:C6	2.18	0.77
25:BA:602:G:H4'	25:BA:603:A:O3'	1.85	0.77
25:BA:780:G:H2'	25:BA:782:A:N7	1.99	0.77
25:BA:792:G:H21	25:BA:2072:G:C1'	1.98	0.77
25:BA:92:G:H2'	25:BA:93:C:H6	1.49	0.77
25:BA:863:A:H4'	26:BB:100:G:H21	1.47	0.77
26:BB:71:C:O2'	26:BB:72:G:H5'	1.84	0.77
28:BD:147:LEU:HA	28:BD:185:VAL:CG1	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1971:A:N3	28:BD:239:ARG:HA	1.98	0.77
29:BE:111:ARG:HB2	29:BE:161:GLY:HA2	1.65	0.77
29:BE:156:MET:HG3	29:BE:157:ALA:N	2.00	0.77
29:BE:176:ILE:HG21	29:BE:181:LEU:HB2	1.65	0.77
31:BG:141:PHE:C	31:BG:143:GLU:H	1.85	0.77
32:BH:101:ARG:NH1	32:BH:122:THR:HG23	1.99	0.77
38:BP:16:ARG:C	38:BP:17:LEU:HD12	2.04	0.77
36:BN:79:PHE:HB2	41:BS:73:GLU:HG3	1.63	0.77
46:BX:13:VAL:HB	46:BX:73:ARG:HH11	1.50	0.77
34:BL:109:LYS:O	34:BL:112:MET:HB2	1.84	0.77
25:BA:1574:C:H2'	25:BA:1575:C:O4'	1.83	0.77
1:AA:1507:A:C2	1:AA:1530:G:H1'	2.19	0.77
1:AA:762:C:H2'	1:AA:763:G:H8	1.48	0.77
1:AA:817:C:O2	1:AA:817:C:C2'	2.32	0.77
1:AA:915:A:H2'	1:AA:916:G:H5'	1.65	0.77
6:AF:73:PRO:O	6:AF:76:VAL:HB	1.84	0.77
7:AG:56:VAL:CG1	7:AG:202:LEU:HD21	2.14	0.77
12:AL:111:ARG:NH2	13:AM:62:HIS:HE1	1.81	0.77
1:AA:691:G:H22	14:AN:51:LYS:HZ3	1.32	0.77
16:AP:14:ARG:HG2	16:AP:17:VAL:CG2	2.15	0.77
18:AR:71:GLN:HA	18:AR:75:PRO:HB3	1.66	0.77
20:AT:10:VAL:HG23	20:AT:55:ASP:O	1.85	0.77
51:B3:33:VAL:HG13	51:B3:35:VAL:CG2	2.14	0.77
55:B7:29:LYS:HB3	55:B7:34:TRP:CZ2	2.20	0.77
25:BA:1405:U:H2'	25:BA:1406:U:H6	1.49	0.77
25:BA:1434:A:N6	25:BA:1558:A:H61	1.82	0.77
25:BA:1438:U:H3	25:BA:1553:A:N6	1.82	0.77
25:BA:1709:U:H6	25:BA:1709:U:H5'	1.48	0.77
25:BA:1815:A:N3	25:BA:1817:G:C6	2.53	0.77
25:BA:1912:A:N1	25:BA:1919:A:C4	2.53	0.77
25:BA:2089:U:H2'	25:BA:2090:G:C8	2.20	0.77
25:BA:2619:C:O3'	29:BE:152:LYS:O	2.01	0.77
25:BA:2815:C:O2'	25:BA:2816:C:H5'	1.84	0.77
25:BA:895:U:O2	25:BA:896:A:N6	2.17	0.77
27:BC:211:SER:HB2	27:BC:213:TYR:CZ	2.19	0.77
32:BH:75:ALA:O	32:BH:79:VAL:HG22	1.84	0.77
40:BR:76:LYS:HE3	40:BR:77:ALA:HB2	1.65	0.77
41:BS:63:VAL:HG12	41:BS:63:VAL:O	1.83	0.77
43:BU:64:HIS:CG	43:BU:96:ILE:HG22	2.20	0.77
43:BU:62:LEU:CD1	43:BU:98:GLU:HG2	2.14	0.77
48:BZ:32:ARG:NH1	48:BZ:32:ARG:HB3	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BK:133:HIS:ND1	33:BK:134:PRO:HD2	1.99	0.77
1:AA:1348:U:OP1	12:AL:109:VAL:HA	1.84	0.77
1:AA:1368:G:OP2	12:AL:112:LYS:O	2.01	0.77
1:AA:148:G:O2'	1:AA:149:A:H5'	1.84	0.77
1:AA:193:C:O4'	23:AW:60:GLU:HG2	1.84	0.77
1:AA:225:C:H2'	1:AA:226:G:C5'	2.14	0.77
1:AA:494:U:H2'	1:AA:494:U:O2	1.84	0.77
1:AA:977:A:H4'	1:AA:982:U:O4	1.84	0.77
3:AD:69:C:H2'	3:AD:70:G:H8	1.49	0.77
5:AE:221:LEU:HD13	5:AE:221:LEU:C	2.05	0.77
8:AH:94:ALA:HB3	8:AH:117:ASP:C	2.05	0.77
8:AH:18:ARG:NH2	8:AH:25:ARG:HG3	2.00	0.77
6:AF:131:ARG:HH12	8:AH:51:VAL:HG23	1.50	0.77
10:AJ:15:ASP:OD1	10:AJ:18:TYR:HB2	1.83	0.77
12:AL:51:ARG:HH11	12:AL:51:ARG:HA	1.49	0.77
12:AL:70:LYS:H	12:AL:70:LYS:NZ	1.82	0.77
15:AO:25:PRO:C	15:AO:27:LEU:N	2.38	0.77
15:AO:57:LYS:HG2	15:AO:67:THR:HG23	1.67	0.77
20:AT:60:ILE:CG2	20:AT:72:ARG:HG3	2.15	0.77
22:AV:11:VAL:O	22:AV:15:LEU:HD21	1.85	0.77
51:B3:57:GLU:CA	51:B3:61:ARG:NH1	2.46	0.77
53:B5:16:CYS:SG	53:B5:19:ARG:O	2.42	0.77
55:B7:5:LYS:O	55:B7:7:HIS:N	2.17	0.77
56:B8:19:ARG:NH1	56:B8:22:ARG:HD3	1.97	0.77
25:BA:1204:A:C2	30:BF:188:ARG:C	2.57	0.77
25:BA:1249:U:H3	37:BO:21:ARG:HH22	1.33	0.77
25:BA:1299:G:H5'	25:BA:1301:A:C1'	2.15	0.77
25:BA:1418:G:OP2	25:BA:1418:G:H3'	1.85	0.77
25:BA:1492:G:N2	25:BA:1499:C:N3	2.33	0.77
25:BA:1538:G:H22	25:BA:1539:G:N2	1.83	0.77
25:BA:1460:A:N1	25:BA:1732:A:N1	2.31	0.77
25:BA:1784:A:H4'	25:BA:1785:A:N9	1.98	0.77
25:BA:1835:G:C4	25:BA:1931:U:N3	2.50	0.77
25:BA:221:A:N3	25:BA:233:A:H1'	1.99	0.77
25:BA:2393:A:H4'	37:BO:56:SER:N	1.94	0.77
25:BA:319:C:C2'	25:BA:320:A:H8	1.96	0.77
25:BA:457:A:C1'	25:BA:459:U:H3	1.97	0.77
25:BA:483:A:O3'	46:BX:48:ALA:HB2	1.84	0.77
29:BE:45:THR:CG2	29:BE:81:ILE:HA	2.15	0.77
29:BE:53:PRO:HG3	29:BE:75:VAL:CG2	2.14	0.77
31:BG:111:LEU:HD11	31:BG:180:PHE:HZ	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:137:ASP:HB3	32:BH:140:LYS:HE2	1.67	0.77
36:BN:39:ILE:C	36:BN:59:LYS:HZ3	1.88	0.77
25:BA:662:G:H4'	37:BO:18:ARG:N	1.99	0.77
38:BP:75:THR:CG2	38:BP:77:LYS:HG3	2.14	0.77
39:BQ:11:ASN:CG	39:BQ:12:ARG:H	1.88	0.77
39:BQ:18:LEU:HD12	39:BQ:22:ARG:HH22	1.47	0.77
41:BS:17:THR:CG2	41:BS:22:PHE:HE2	1.96	0.77
25:BA:1252:G:O2'	42:BT:33:ARG:NH2	2.17	0.77
43:BU:96:ILE:HD12	43:BU:96:ILE:O	1.85	0.77
47:BY:57:ILE:HD11	47:BY:91:LEU:HD23	1.65	0.77
34:BL:72:PRO:HG2	34:BL:77:LEU:CD1	2.13	0.77
1:AA:128:G:H4'	20:AT:3:LYS:HG3	1.65	0.77
1:AA:1493:A:O2'	1:AA:1494:G:H5'	1.84	0.77
1:AA:370:C:C2	1:AA:371:G:C8	2.72	0.77
1:AA:679:C:H2'	1:AA:680:C:C6	2.19	0.77
1:AA:7:G:H1'	1:AA:298:A:C8	2.20	0.77
1:AA:939:G:H5''	10:AJ:102:ARG:NH1	2.00	0.77
3:AD:34:G:N2	3:AD:35:A:O4'	2.17	0.77
3:AD:76:A:N1	25:BA:248:G:O2'	2.16	0.77
5:AE:215:LEU:O	5:AE:218:ALA:HB3	1.85	0.77
6:AF:182:ILE:HG12	6:AF:203:PHE:CD1	2.20	0.77
7:AG:11:LEU:C	7:AG:19:LEU:HD12	2.04	0.77
9:AI:2:ARG:NE	9:AI:69:GLU:HG2	1.99	0.77
9:AI:6:VAL:HG11	9:AI:8:ILE:HD11	1.65	0.77
11:AK:70:GLN:HE21	11:AK:71:GLY:H	1.28	0.77
14:AN:15:ALA:CA	14:AN:77:MET:HG2	2.14	0.77
17:AQ:26:ARG:HB3	17:AQ:43:CYS:CB	2.15	0.77
19:AS:14:ASN:CB	19:AS:42:ARG:HH22	1.96	0.77
19:AS:58:TYR:C	19:AS:58:TYR:CD1	2.58	0.77
20:AT:22:LEU:HD11	20:AT:39:SER:OG	1.84	0.77
50:B2:6:VAL:HG12	50:B2:55:ARG:O	1.84	0.77
52:B4:35:GLU:HB3	52:B4:49:CYS:HB2	1.67	0.77
53:B5:37:ARG:O	53:B5:38:LYS:HB2	1.83	0.77
25:BA:1283:G:N2	25:BA:1285:G:H3'	2.00	0.77
25:BA:1515:C:C6	25:BA:1515:C:OP2	2.38	0.77
25:BA:1471:A:C8	25:BA:1521:G:C2	2.72	0.77
25:BA:1813:G:C2	28:BD:52:ARG:CZ	2.67	0.77
25:BA:2064:C:C1'	25:BA:2450:A:H62	1.95	0.77
25:BA:2083:G:H2'	25:BA:2084:C:H6	1.45	0.77
25:BA:2416:C:H2'	25:BA:2417:C:C5'	2.14	0.77
25:BA:2464:C:H2'	25:BA:2465:C:C6	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:270(P):C:H2'	25:BA:270(Q):C:H6	1.48	0.77
25:BA:387:U:O2'	25:BA:388:G:C8	2.37	0.77
25:BA:728:G:N1	25:BA:762:U:C3'	2.43	0.77
25:BA:746:A:C1'	25:BA:748:G:H21	1.97	0.77
26:BB:43:C:O2	31:BG:95:ARG:NE	2.16	0.77
26:BB:68:C:H2'	26:BB:69:G:C8	2.17	0.77
27:BC:183:GLU:H	27:BC:183:GLU:CD	1.88	0.77
27:BC:37:PHE:HD1	27:BC:38:ASP:N	1.83	0.77
29:BE:196:VAL:CG1	29:BE:197:ILE:N	2.48	0.77
30:BF:160:ASN:OD1	30:BF:163:VAL:HB	1.83	0.77
30:BF:197:ASP:HB2	30:BF:201:VAL:HG23	1.67	0.77
30:BF:31:HIS:CD2	37:BO:14:LYS:HZ1	2.02	0.77
30:BF:7:TYR:N	30:BF:20:LEU:HD22	2.00	0.77
31:BG:113:ARG:O	31:BG:114:ILE:HG22	1.83	0.77
31:BG:167:GLU:O	31:BG:170:ARG:HB3	1.84	0.77
32:BH:23:ARG:NH1	32:BH:36:PRO:HB3	1.98	0.77
33:BK:35:LEU:N	33:BK:35:LEU:HD22	1.99	0.77
35:BM:18:ALA:H	35:BM:21:LYS:CE	1.97	0.77
36:BN:31:LYS:O	36:BN:32:TYR:CD1	2.37	0.77
36:BN:39:ILE:C	36:BN:59:LYS:NZ	2.38	0.77
38:BP:35:VAL:HG23	38:BP:101:ARG:O	1.84	0.77
40:BR:106:ARG:CZ	40:BR:110:LEU:HD22	2.14	0.77
25:BA:997:G:C5'	42:BT:92:ARG:HH11	1.96	0.77
43:BU:83:ARG:HD3	43:BU:83:ARG:C	2.04	0.77
44:BV:11:ARG:H	44:BV:11:ARG:HH21	1.32	0.77
46:BX:13:VAL:HG23	46:BX:14:LEU:N	1.99	0.77
47:BY:4:ARG:HH11	47:BY:37:VAL:CB	1.95	0.77
44:BV:39:THR:OG1	52:B4:28:PRO:HG3	1.85	0.77
1:AA:1021:G:H2'	1:AA:1022:G:O4'	1.83	0.77
1:AA:1126:U:H2'	1:AA:1127:G:C8	2.18	0.77
1:AA:1483:A:H2	25:BA:1960:A:C1'	1.95	0.77
1:AA:440:A:C6	1:AA:494:U:C5	2.73	0.77
1:AA:594:G:H2'	1:AA:595:G:O4'	1.85	0.77
1:AA:756:C:O2'	1:AA:757:U:H5'	1.85	0.77
5:AE:111:ARG:HH11	5:AE:111:ARG:CA	1.96	0.77
5:AE:170:GLU:O	5:AE:172:ILE:N	2.17	0.77
5:AE:77:ALA:HB2	5:AE:211:ILE:HD13	1.65	0.77
8:AH:81:GLU:N	8:AH:81:GLU:CD	2.37	0.77
10:AJ:140:ASP:HA	10:AJ:143:ARG:NH1	1.98	0.77
11:AK:84:ARG:HD3	11:AK:85:ARG:O	1.85	0.77
11:AK:98:LYS:HZ2	11:AK:98:LYS:N	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:62:GLN:HA	18:AR:65:ARG:NH2	1.98	0.77
18:AR:62:GLN:HE21	18:AR:66:LEU:CD2	1.94	0.77
22:AV:40:ILE:HG21	22:AV:62:ILE:HD12	1.67	0.77
23:AW:40:ALA:HA	23:AW:55:ILE:CD1	2.12	0.77
55:B7:10:ALA:HB1	55:B7:64:TYR:CD2	2.19	0.77
25:BA:1013:C:H2'	25:BA:1014:U:C6	2.19	0.77
25:BA:1023:U:P	25:BA:1025:G:N1	2.57	0.77
25:BA:1049:C:N3	25:BA:1050:A:N7	2.33	0.77
25:BA:1178:C:C2	25:BA:1179:C:C5	2.72	0.77
25:BA:1201:C:C2'	25:BA:1202:C:H5'	2.15	0.77
25:BA:1237:A:O2'	25:BA:1238:G:O4'	2.03	0.77
25:BA:2098:U:H2'	25:BA:2099:U:H6	1.47	0.77
25:BA:2422:A:N3	25:BA:2424:C:C5	2.52	0.77
25:BA:2572:A:C4'	25:BA:2573:C:H5''	2.15	0.77
25:BA:2627:G:O2'	25:BA:2628:C:H5'	1.84	0.77
25:BA:356:G:H3'	25:BA:357:A:C8	2.20	0.77
25:BA:663:G:C5'	37:BO:18:ARG:HB3	2.12	0.77
26:BB:73:A:N6	26:BB:104:A:C1'	2.48	0.77
25:BA:691:C:H1'	28:BD:45:ASN:HD21	1.48	0.77
29:BE:40:GLU:O	29:BE:41:LYS:HD3	1.85	0.77
30:BF:110:LEU:O	30:BF:114:VAL:HG23	1.85	0.77
30:BF:152:GLU:O	30:BF:172:TRP:HA	1.84	0.77
32:BH:86:GLU:HA	32:BH:132:ARG:HG3	1.66	0.77
32:BH:9:ILE:HD13	32:BH:73:ALA:CB	2.13	0.77
38:BP:98:LYS:H	38:BP:98:LYS:NZ	1.83	0.77
40:BR:11:LYS:C	40:BR:14:VAL:HB	2.05	0.77
42:BT:65:ILE:CB	42:BT:76:TYR:OH	2.28	0.77
44:BV:34:ASN:ND2	44:BV:37:ARG:NH1	2.33	0.77
46:BX:9:LYS:HB2	46:BX:110:GLU:OE1	1.83	0.77
46:BX:42:VAL:HG22	46:BX:61:ILE:HG21	1.67	0.77
25:BA:1092:C:C6	25:BA:1092:C:H3'	2.20	0.77
25:BA:188:G:O2'	25:BA:189:G:H5'	1.85	0.77
1:AA:425:G:O2'	1:AA:426:G:H5'	1.85	0.77
1:AA:450:G:O6	1:AA:481:G:H2'	1.84	0.77
1:AA:453:A:H61	1:AA:480:U:H3	1.27	0.77
1:AA:579:G:C2'	1:AA:580:U:H5'	2.14	0.77
8:AH:61:TYR:HA	8:AH:64:ARG:HG2	1.66	0.77
11:AK:36:LEU:HD11	11:AK:59:LEU:CD2	2.14	0.77
11:AK:39:LEU:O	11:AK:43:GLY:O	2.03	0.77
12:AL:47:LEU:HD11	12:AL:50:LEU:HD22	1.67	0.77
13:AM:39:PRO:O	13:AM:40:LEU:HB2	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:97:SER:O	20:AT:98:LEU:HD22	1.84	0.77
23:AW:57:ARG:HH21	23:AW:100:ILE:HB	1.50	0.77
50:B2:10:LYS:NZ	50:B2:31:LEU:HG	1.98	0.77
25:BA:1341:U:C3'	25:BA:1341:U:C6	2.67	0.77
25:BA:414:C:H1'	25:BA:1864:U:H1'	1.66	0.77
25:BA:2052:G:H4'	29:BE:143:ASN:N	1.99	0.77
25:BA:2061:G:N2	25:BA:2063:C:O4'	2.16	0.77
25:BA:2492:U:C2'	25:BA:2492:U:O2	2.32	0.77
25:BA:2493:U:H6	25:BA:2493:U:C5'	1.97	0.77
25:BA:2497:A:C2'	25:BA:2498:C:OP2	2.31	0.77
25:BA:33:U:O2'	25:BA:34:C:H5	1.68	0.77
25:BA:479:A:H5'	46:BX:63:LYS:HD2	1.67	0.77
25:BA:728:G:C1'	25:BA:729:G:H8	1.97	0.77
25:BA:941:A:C2	25:BA:942:G:N3	2.53	0.77
25:BA:2125:G:H5'	27:BC:40:THR:HG21	1.66	0.77
29:BE:118:LYS:HE2	29:BE:118:LYS:O	1.83	0.77
29:BE:182:LEU:HD22	29:BE:184:VAL:HG13	1.67	0.77
30:BF:6:VAL:HA	30:BF:20:LEU:CD1	2.14	0.77
30:BF:35:GLU:CA	30:BF:38:ARG:HH21	1.98	0.77
33:BK:34:GLY:C	33:BK:35:LEU:HD22	2.04	0.77
35:BM:70:LYS:CD	35:BM:86:PRO:HA	2.11	0.77
25:BA:942:G:C3'	37:BO:32:THR:HG22	2.13	0.77
41:BS:110:ILE:HD12	41:BS:113:LYS:HD2	1.66	0.77
42:BT:15:LYS:HA	42:BT:18:LEU:HD21	1.67	0.77
42:BT:89:GLU:OE1	43:BU:50:PRO:CB	2.33	0.77
47:BY:102:LEU:HB2	47:BY:123:ASP:O	1.85	0.77
25:BA:1061:U:H4'	25:BA:1070:A:C4'	2.15	0.77
34:BL:39:LYS:HA	34:BL:42:ASN:HD22	1.50	0.77
25:BA:2341:G:H2'	25:BA:2342:C:C6	2.20	0.77
7:AG:196:LEU:O	7:AG:196:LEU:HD12	1.84	0.77
1:AA:1100:C:H2'	5:AE:98:LEU:HD11	1.65	0.77
1:AA:1346:A:H4'	1:AA:1347:G:O5'	1.85	0.77
1:AA:1365:G:H2'	1:AA:1366:C:C6	2.19	0.77
5:AE:208:ILE:HG21	5:AE:239:VAL:CG1	2.12	0.77
5:AE:40:HIS:C	5:AE:41:ILE:HD12	2.06	0.77
5:AE:91:PRO:HG2	5:AE:155:LEU:HD23	1.67	0.77
8:AH:7:GLU:HG2	8:AH:37:ARG:NH2	2.00	0.77
12:AL:40:LEU:C	12:AL:42:ARG:H	1.87	0.77
19:AS:14:ASN:HA	19:AS:42:ARG:CZ	2.15	0.77
20:AT:75:ARG:HH22	20:AT:77:VAL:CG1	1.96	0.77
52:B4:6:VAL:CG2	52:B4:7:PRO:HD2	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B7:15:LYS:H	55:B7:22:VAL:HG13	1.50	0.77
25:BA:1174:A:N3	25:BA:1174:A:H2'	1.98	0.77
25:BA:1275:A:N7	25:BA:1296:G:H1'	2.00	0.77
25:BA:1530:G:C3'	25:BA:1531:C:C6	2.68	0.77
25:BA:15:G:O2'	25:BA:16:G:C5'	2.33	0.77
25:BA:1906:G:O2'	25:BA:1907:G:H5'	1.85	0.77
25:BA:2124:G:H2'	25:BA:2125:G:O4'	1.85	0.77
25:BA:214:G:H2'	25:BA:215:G:O4'	1.85	0.77
25:BA:261:G:O2'	25:BA:262:A:H5'	1.84	0.77
25:BA:2655:G:O2'	25:BA:2656:U:C5	2.34	0.77
25:BA:2789:C:O2'	25:BA:2893:G:N2	2.18	0.77
25:BA:28:A:H2'	25:BA:29:U:H5'	1.67	0.77
25:BA:614:U:H3'	25:BA:615:G:C4'	2.07	0.77
25:BA:729:G:H2'	25:BA:730:C:C1'	2.15	0.77
25:BA:751:A:N6	25:BA:789:A:H62	1.83	0.77
28:BD:124:PRO:HD2	28:BD:129:ASN:ND2	2.01	0.77
25:BA:1820:U:C6	28:BD:202:LYS:HG2	2.19	0.77
29:BE:127:ASP:OD1	29:BE:134:ILE:HG23	1.85	0.77
25:BA:2632:A:H1'	29:BE:61:ARG:HH11	1.48	0.77
30:BF:82:ILE:N	30:BF:82:ILE:HD13	2.00	0.77
35:BM:35:ARG:CD	35:BM:38:HIS:HB3	2.14	0.77
36:BN:52:VAL:O	36:BN:53:LYS:HG2	1.85	0.77
38:BP:22:LYS:HB2	47:BY:79:ARG:HH21	1.49	0.77
42:BT:88:ILE:HD13	42:BT:88:ILE:N	2.00	0.77
44:BV:27:LYS:HB3	44:BV:31:GLU:OE2	1.85	0.77
45:BW:32:PRO:HG3	45:BW:77:LYS:CB	2.14	0.77
46:BX:37:VAL:HG22	46:BX:39:VAL:CG2	2.15	0.77
47:BY:165:VAL:HG12	47:BY:166:SER:H	1.50	0.77
34:BL:7:VAL:HG12	34:BL:58:THR:HG21	1.66	0.77
7:AG:47:ARG:NH2	7:AG:48:ALA:O	2.18	0.77
25:BA:2187:G:H2'	25:BA:2188:C:H6	1.50	0.77
1:AA:1329:A:O2'	1:AA:1330:U:H5'	1.85	0.76
1:AA:1491:G:O2'	1:AA:1492:A:H5'	1.85	0.76
1:AA:823:G:H21	11:AK:1:MET:N	1.83	0.76
5:AE:114:ARG:O	5:AE:118:LEU:HB2	1.86	0.76
8:AH:103:GLY:O	8:AH:106:PRO:HD2	1.85	0.76
9:AI:7:ASN:ND2	9:AI:62:TRP:HD1	1.84	0.76
10:AJ:113:GLU:OE2	10:AJ:119:ARG:HG3	1.85	0.76
10:AJ:104:LEU:HD22	10:AJ:134:ALA:CB	2.13	0.76
11:AK:109:ILE:CG1	11:AK:111:ILE:HD11	2.15	0.76
11:AK:33:GLU:HA	11:AK:36:LEU:HD21	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:62:GLN:O	14:AN:65:ALA:HB3	1.86	0.76
1:AA:538:G:H3'	15:AO:115:LYS:HE2	1.66	0.76
15:AO:7:ILE:HG21	20:AT:34:LYS:HB2	1.67	0.76
23:AW:20:LEU:HA	23:AW:23:ARG:HH11	1.50	0.76
25:BA:1107:G:H2'	25:BA:1108:U:C4'	2.15	0.76
25:BA:1807:G:H1'	25:BA:1811:G:N2	2.00	0.76
25:BA:1817:G:O2'	25:BA:1818:U:H5'	1.85	0.76
25:BA:1818:U:C5	28:BD:156:ALA:HB3	2.20	0.76
25:BA:2115:G:H22	25:BA:2119:A:P	2.07	0.76
25:BA:220:G:H4'	25:BA:234:C:H4'	1.66	0.76
25:BA:2447:G:C8	25:BA:2500:U:O3'	2.37	0.76
25:BA:1952:A:H1'	25:BA:2560:C:HO2'	1.48	0.76
25:BA:383:U:H2'	25:BA:385:C:C5	2.20	0.76
25:BA:388:G:H1'	25:BA:390:A:N6	1.98	0.76
25:BA:575:A:HO2'	25:BA:576:U:H5'	1.49	0.76
25:BA:675:A:H5''	30:BF:67:GLN:HG2	1.67	0.76
25:BA:806:C:H2'	25:BA:807:U:H6	1.49	0.76
25:BA:85:G:N2	25:BA:86:C:C2	2.53	0.76
25:BA:977:G:N7	25:BA:987:G:C2	2.53	0.76
26:BB:60:C:H2'	26:BB:61:G:C8	2.20	0.76
30:BF:7:TYR:H	30:BF:20:LEU:CD2	1.98	0.76
30:BF:52:LYS:NZ	30:BF:88:VAL:HG21	1.99	0.76
30:BF:89:VAL:HG12	30:BF:90:PHE:H	1.50	0.76
32:BH:115:VAL:HG13	32:BH:116:GLU:N	2.00	0.76
32:BH:42:ARG:NE	32:BH:42:ARG:HA	2.00	0.76
41:BS:9:LEU:HA	41:BS:12:SER:OG	1.84	0.76
43:BU:13:ARG:NH2	43:BU:43:GLU:OE1	2.16	0.76
43:BU:33:VAL:HB	43:BU:64:HIS:HD2	1.50	0.76
46:BX:22:GLY:HA3	46:BX:73:ARG:NH1	1.99	0.76
46:BX:42:VAL:N	46:BX:61:ILE:HB	1.97	0.76
47:BY:140:ASP:O	47:BY:141:VAL:HG23	1.85	0.76
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.45	0.76
1:AA:764:C:C2'	1:AA:765:G:C8	2.67	0.76
7:AG:180:GLY:O	7:AG:182:LYS:HG2	1.85	0.76
9:AI:60:PHE:C	9:AI:61:LEU:HD23	2.05	0.76
14:AN:14:VAL:O	14:AN:16:SER:N	2.18	0.76
14:AN:54:ARG:HD3	14:AN:54:ARG:H	1.50	0.76
17:AQ:44:LEU:HD23	17:AQ:45:ARG:N	2.01	0.76
18:AR:67:LEU:O	18:AR:78:TYR:HE1	1.67	0.76
20:AT:15:MET:HB3	20:AT:18:THR:HB	1.66	0.76
21:AU:70:ILE:CG2	21:AU:74:ARG:HE	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:24:LEU:O	23:AW:27:LYS:HB3	1.85	0.76
52:B4:58:LEU:O	52:B4:58:LEU:HD13	1.85	0.76
25:BA:1174:A:N6	25:BA:1177:A:C2	2.53	0.76
25:BA:1797:C:O2'	28:BD:257:LEU:HD12	1.85	0.76
25:BA:1919:A:O2'	25:BA:1920:C:H5'	1.84	0.76
25:BA:2021:C:OP1	25:BA:2021:C:O4'	2.03	0.76
2:AC:75:C:O2	25:BA:2252:G:N2	2.19	0.76
25:BA:2457:U:C2'	25:BA:2458:G:H5'	2.15	0.76
25:BA:2461:C:C1'	25:BA:2492:U:C5	2.65	0.76
25:BA:429:A:H2'	25:BA:430:G:C8	2.19	0.76
25:BA:721:C:H2'	25:BA:722:A:H8	1.51	0.76
25:BA:776:G:O2'	25:BA:777:A:OP2	2.02	0.76
25:BA:848:G:H21	25:BA:933:A:H1'	1.50	0.76
25:BA:931:G:H3'	25:BA:932:G:O4'	1.85	0.76
27:BC:74:VAL:HG21	27:BC:156:ILE:HD13	1.66	0.76
31:BG:34:LEU:HD21	31:BG:176:LEU:CD1	2.15	0.76
31:BG:49:ASP:HA	31:BG:53:LEU:CD2	2.15	0.76
32:BH:89:ILE:HG22	32:BH:131:VAL:HG12	1.67	0.76
35:BM:17:ASP:HB3	35:BM:21:LYS:HE3	1.66	0.76
35:BM:95:PRO:HA	35:BM:98:VAL:HG23	1.68	0.76
36:BN:97:ARG:CG	36:BN:118:ALA:HB2	2.15	0.76
38:BP:102:VAL:HG13	38:BP:104:PHE:CE1	2.21	0.76
40:BR:92:TYR:O	40:BR:98:VAL:HG21	1.85	0.76
41:BS:85:LYS:CG	41:BS:88:ILE:HD11	2.15	0.76
43:BU:6:LYS:HE2	43:BU:10:LYS:O	1.84	0.76
43:BU:67:GLY:HA2	43:BU:93:GLU:C	2.05	0.76
48:BZ:50:ASN:HB3	48:BZ:63:VAL:HG22	1.67	0.76
33:BK:133:HIS:HB3	33:BK:136:VAL:CG2	2.14	0.76
1:AA:1148:U:H2'	1:AA:1148:U:O2	1.84	0.76
1:AA:318:G:O2'	1:AA:319:G:H5'	1.86	0.76
1:AA:598:U:C4'	11:AK:94:TYR:HD2	1.98	0.76
1:AA:59:A:C2	1:AA:331:G:C2	2.73	0.76
1:AA:608:A:C6	1:AA:609:A:C8	2.73	0.76
1:AA:862:C:H2'	1:AA:863:U:C6	2.21	0.76
2:AC:50:U:H2'	2:AC:51:C:C6	2.20	0.76
3:AD:18:G:H4'	3:AD:60:U:H3	1.50	0.76
6:AF:83:ARG:O	6:AF:87:LEU:HG	1.85	0.76
9:AI:75:LEU:HD11	9:AI:79:LEU:HD21	1.66	0.76
9:AI:89:MET:CE	21:AU:75:ILE:HG21	2.16	0.76
10:AJ:72:ARG:HG2	10:AJ:142:GLU:OE1	1.86	0.76
15:AO:73:GLU:H	15:AO:73:GLU:CD	1.89	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:6:HIS:HB3	17:AQ:49:HIS:HD1	1.50	0.76
22:AV:53:ASN:HD21	22:AV:58:VAL:HG13	1.49	0.76
25:BA:1047:G:H2'	25:BA:1110:G:H1	1.50	0.76
25:BA:1674:G:H21	25:BA:1676:A:N6	1.84	0.76
25:BA:1794:U:H2'	25:BA:1795:C:H6	1.50	0.76
25:BA:570:G:C5	25:BA:2030:A:C2	2.73	0.76
25:BA:2052:G:H2'	25:BA:2053:G:H8	1.50	0.76
25:BA:2111:C:OP2	25:BA:2111:C:H6	1.67	0.76
25:BA:963:U:H1'	25:BA:2250:G:N2	1.96	0.76
25:BA:2505:G:O6	25:BA:2576:G:H1'	1.84	0.76
25:BA:2584:U:C6	25:BA:2584:U:C3'	2.66	0.76
25:BA:2596:U:O3'	28:BD:242:ARG:NE	2.19	0.76
25:BA:370:G:C2	25:BA:424:G:N7	2.52	0.76
25:BA:514:A:C2	25:BA:515:A:C4	2.74	0.76
25:BA:902:C:H2'	25:BA:903:C:C6	2.20	0.76
28:BD:70:TRP:CA	28:BD:73:VAL:HG13	2.09	0.76
30:BF:155:LEU:HG	30:BF:189:THR:HG21	1.65	0.76
31:BG:55:LYS:HB3	31:BG:152:LEU:CD1	2.11	0.76
25:BA:2749:A:H4'	32:BH:62:LYS:CG	2.13	0.76
32:BH:76:VAL:HG22	32:BH:77:LYS:N	1.99	0.76
35:BM:123:TYR:C	35:BM:125:GLY:H	1.87	0.76
35:BM:126:PRO:HG2	35:BM:129:PRO:CD	2.16	0.76
36:BN:53:LYS:HG3	36:BN:54:GLU:H	1.49	0.76
25:BA:598:G:H1'	37:BO:14:LYS:HG3	1.67	0.76
30:BF:34:TRP:CH2	37:BO:6:LEU:N	2.52	0.76
25:BA:957:A:OP2	38:BP:77:LYS:HD3	1.84	0.76
39:BQ:102:GLU:OE2	39:BQ:102:GLU:CA	2.33	0.76
40:BR:49:VAL:HG13	40:BR:76:LYS:NZ	2.00	0.76
26:BB:49:C:OP1	40:BR:97:ARG:N	2.19	0.76
42:BT:79:PHE:CD1	42:BT:79:PHE:O	2.38	0.76
46:BX:75:ILE:N	46:BX:100:ALA:HB1	2.01	0.76
25:BA:1064:C:H3'	25:BA:1065:U:H5	1.45	0.76
1:AA:1084:G:C4	1:AA:1085:U:C5	2.74	0.76
1:AA:109:A:N7	1:AA:326:G:N3	2.32	0.76
1:AA:478:A:H2'	1:AA:479:C:C6	2.19	0.76
1:AA:778:G:H2'	1:AA:779:C:H6	1.48	0.76
5:AE:155:LEU:HB3	5:AE:159:PRO:HG3	1.66	0.76
6:AF:83:ARG:O	6:AF:85:ARG:N	2.18	0.76
11:AK:13:ILE:HG22	11:AK:14:ARG:N	2.00	0.76
15:AO:33:ARG:HB3	15:AO:85:ILE:HG21	1.65	0.76
16:AP:3:ARG:NH2	31:BG:113:ARG:HD3	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1222:C:O2'	25:BA:1223:C:H5'	1.86	0.76
25:BA:1231:G:H2'	25:BA:1232:G:C8	2.19	0.76
25:BA:1296:G:OP1	25:BA:2709:G:O2'	2.01	0.76
25:BA:1451:C:C4	25:BA:1454:U:OP1	2.38	0.76
25:BA:1776:G:C2'	25:BA:1777:U:H5'	2.15	0.76
25:BA:195:A:C4	25:BA:198:C:N4	2.54	0.76
25:BA:1995:U:C6	25:BA:1995:U:C3'	2.68	0.76
25:BA:2022:U:O2'	25:BA:2034:U:C2	2.37	0.76
25:BA:2232:U:O2'	25:BA:2233:U:H5'	1.85	0.76
25:BA:221:A:C2	25:BA:233:A:N3	2.53	0.76
25:BA:270(F):U:H2'	25:BA:270(G):C:O4'	1.84	0.76
25:BA:274:G:O2'	25:BA:275:G:H5'	1.85	0.76
25:BA:470:A:N1	25:BA:471:A:N3	2.33	0.76
25:BA:636:G:H4'	25:BA:638:G:O2'	1.86	0.76
26:BB:12:C:C5	48:BZ:74:ARG:O	2.38	0.76
28:BD:155:LEU:HG	28:BD:157:ARG:NH2	2.00	0.76
28:BD:159:ALA:C	28:BD:196:VAL:HG21	2.05	0.76
29:BE:185:LYS:O	29:BE:185:LYS:HG2	1.84	0.76
32:BH:11:VAL:HG13	32:BH:11:VAL:O	1.86	0.76
33:BK:21:VAL:HG11	33:BK:30:LEU:HG	1.68	0.76
36:BN:6:THR:HG23	36:BN:21:CYS:HB3	1.67	0.76
36:BN:11:ALA:HB3	36:BN:97:ARG:HH12	1.48	0.76
39:BQ:38:VAL:HB	39:BQ:39:PRO:CD	2.15	0.76
25:BA:2821:A:P	39:BQ:4:LEU:HD22	2.24	0.76
40:BR:9:ARG:O	40:BR:12:PHE:CD2	2.38	0.76
41:BS:38:ASN:O	41:BS:42:ILE:HB	1.85	0.76
43:BU:5:VAL:HG23	43:BU:12:TYR:CD2	2.19	0.76
44:BV:13:SER:OG	44:BV:14:PRO:HD2	1.85	0.76
44:BV:18:ARG:O	44:BV:21:VAL:HG12	1.84	0.76
45:BW:73:ARG:HH11	45:BW:73:ARG:CB	1.98	0.76
45:BW:27:THR:CB	45:BW:80:ILE:HD12	2.16	0.76
47:BY:24:LEU:HD12	47:BY:41:LEU:HD11	1.67	0.76
48:BZ:72:ARG:O	48:BZ:75:LEU:HD12	1.84	0.76
1:AA:1119:C:H2'	1:AA:1120:G:N7	2.00	0.76
2:AC:29:G:H5'	16:AP:118:ALA:O	1.84	0.76
1:AA:1129:C:H1'	1:AA:1130:A:N7	2.00	0.76
1:AA:1305:G:H21	1:AA:1331:G:H2'	1.50	0.76
1:AA:1341:U:O2'	1:AA:1342:C:H5'	1.86	0.76
1:AA:193:C:O2'	1:AA:194:C:H5'	1.84	0.76
5:AE:166:ASP:OD2	5:AE:167:PRO:HD2	1.85	0.76
5:AE:80:ILE:HD11	5:AE:208:ILE:HG23	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:110:ASN:ND2	6:AF:141:VAL:HA	2.01	0.76
6:AF:126:ARG:HB3	6:AF:128:PHE:HE1	1.50	0.76
49:B1:4:GLN:NE2	49:B1:7:GLU:HB2	2.00	0.76
50:B2:8:LEU:HD12	50:B2:31:LEU:HA	1.65	0.76
25:BA:1309:G:O5'	54:B6:9:ARG:HG3	1.83	0.76
25:BA:1443:G:H2'	25:BA:1444:G:O5'	1.86	0.76
25:BA:1513:C:N3	25:BA:1514:U:O4	2.19	0.76
25:BA:1521:G:H3'	25:BA:1522:G:C5'	2.15	0.76
25:BA:1785:A:C5'	25:BA:1982:C:H4'	2.14	0.76
25:BA:2644:G:H1	25:BA:2645:G:N2	1.84	0.76
25:BA:270(B):A:H1'	25:BA:270(C):C:H5	1.48	0.76
25:BA:221:A:O2'	25:BA:271(B):G:N1	2.19	0.76
25:BA:324:A:N3	25:BA:324:A:H2'	2.00	0.76
25:BA:454:A:H4'	25:BA:455:C:C2	2.20	0.76
25:BA:815:C:O2'	25:BA:816:C:H5''	1.86	0.76
25:BA:568:U:H5'	25:BA:945:A:N6	2.00	0.76
27:BC:160:ARG:HD3	27:BC:161:ILE:H	1.49	0.76
27:BC:32:LEU:HD22	27:BC:220:PRO:HG2	1.68	0.76
27:BC:29:VAL:HG21	27:BC:41:VAL:CG1	2.15	0.76
28:BD:200:ASP:O	28:BD:203:ASN:N	2.18	0.76
28:BD:23:GLU:O	28:BD:204:ILE:HD11	1.84	0.76
28:BD:244:ARG:O	28:BD:252:TRP:CD1	2.38	0.76
28:BD:33:LEU:CD1	28:BD:61:LEU:HD13	2.16	0.76
29:BE:13:ARG:O	29:BE:13:ARG:HD2	1.86	0.76
29:BE:155:LYS:O	29:BE:156:MET:HB2	1.86	0.76
30:BF:128:ALA:O	30:BF:129:PHE:HB2	1.85	0.76
31:BG:101:ILE:O	31:BG:101:ILE:HD13	1.84	0.76
37:BO:76:LYS:HE3	37:BO:99:LEU:HD13	1.66	0.76
38:BP:77:LYS:HE2	38:BP:87:LYS:HG3	1.67	0.76
40:BR:14:VAL:CG1	40:BR:15:ARG:N	2.48	0.76
40:BR:13:ARG:HA	40:BR:16:ASN:OD1	1.85	0.76
40:BR:92:TYR:CE2	40:BR:93:LYS:HG2	2.20	0.76
47:BY:151:HIS:HB3	47:BY:170:THR:N	2.00	0.76
47:BY:4:ARG:HG2	47:BY:38:TYR:O	1.86	0.76
1:AA:1078:U:C5	1:AA:1079:G:N7	2.53	0.76
1:AA:1163:C:O2'	1:AA:1164:G:H5'	1.84	0.76
1:AA:1253:G:H21	1:AA:1254:C:H1'	1.50	0.76
1:AA:194:C:C2'	1:AA:195:A:H5''	2.16	0.76
1:AA:229:U:H2'	1:AA:230:G:C8	2.21	0.76
1:AA:378:G:H2'	1:AA:379:C:C6	2.20	0.76
1:AA:961:U:C2'	1:AA:962:C:H5'	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:187:LEU:HD13	5:AE:187:LEU:O	1.85	0.76
7:AG:179:GLU:HG2	7:AG:180:GLY:H	1.51	0.76
1:AA:9:G:H3'	8:AH:126:ARG:HH11	1.51	0.76
8:AH:147:ASP:CA	8:AH:150:ARG:HB2	2.15	0.76
8:AH:41:VAL:HG11	8:AH:113:ALA:HA	1.68	0.76
11:AK:45:ILE:O	11:AK:45:ILE:HG12	1.84	0.76
12:AL:105:ASP:CG	12:AL:107:ARG:HH21	1.88	0.76
12:AL:49:PRO:HB3	12:AL:82:ALA:HB2	1.68	0.76
16:AP:22:ILE:HD12	16:AP:25:ILE:HD12	1.67	0.76
22:AV:12:ASP:O	22:AV:16:LEU:HD13	1.85	0.76
23:AW:45:GLN:HE21	23:AW:91:LEU:HD13	1.51	0.76
49:B1:45:ILE:HG13	49:B1:46:ARG:N	2.01	0.76
25:BA:1023:U:P	25:BA:1025:G:H1	2.08	0.76
25:BA:1143:A:O2'	25:BA:1144:G:H8	1.67	0.76
25:BA:1524:G:H2'	25:BA:1525:G:H8	1.51	0.76
25:BA:1791:A:C2	25:BA:1829:A:O4'	2.38	0.76
25:BA:2541:A:H2	25:BA:2765:A:H61	1.34	0.76
25:BA:2583:G:C2	25:BA:2584:U:O2	2.38	0.76
25:BA:324:A:H2	25:BA:325:G:C1'	1.99	0.76
25:BA:414:C:H2'	25:BA:415:A:H8	1.48	0.76
25:BA:745:G:C2'	25:BA:746:A:H5'	2.14	0.76
25:BA:881:G:N2	25:BA:896:A:N6	2.33	0.76
26:BB:44:G:H21	26:BB:48:A:H1'	1.51	0.76
28:BD:146:GLU:HB2	28:BD:153:ALA:CA	2.15	0.76
29:BE:10:GLY:HA3	29:BE:23:VAL:HG12	1.66	0.76
31:BG:55:LYS:HG3	31:BG:148:MET:SD	2.26	0.76
36:BN:47:ILE:HD11	36:BN:50:GLY:C	2.06	0.76
37:BO:74:GLU:HB2	37:BO:107:LYS:HZ2	1.50	0.76
41:BS:88:ILE:HD12	41:BS:88:ILE:N	2.01	0.76
42:BT:112:ARG:HH22	43:BU:50:PRO:CD	1.96	0.76
43:BU:18:LEU:HD12	43:BU:66:ARG:NH2	1.98	0.76
43:BU:18:LEU:O	43:BU:20:LEU:HD23	1.86	0.76
43:BU:49:THR:HB	43:BU:50:PRO:HD2	1.67	0.76
25:BA:1224:G:N3	43:BU:87:HIS:NE2	2.34	0.76
44:BV:3:ALA:HB3	44:BV:107:LEU:HB3	1.67	0.76
46:BX:95:LYS:HG3	46:BX:103:GLY:HA3	1.65	0.76
47:BY:152:ALA:CA	47:BY:155:LEU:HD22	2.16	0.76
47:BY:155:LEU:HD23	47:BY:163:LEU:HD21	1.68	0.76
33:BK:93:THR:HG22	33:BK:96:ASP:CG	2.06	0.76
34:BL:101:TRP:CZ3	34:BL:105:LEU:HD11	2.21	0.76
1:AA:1144:G:N2	1:AA:1146:A:H62	1.82	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1367:C:OP1	12:AL:115:GLY:N	2.19	0.76
1:AA:611:A:N1	1:AA:629:G:N2	2.33	0.76
1:AA:801:U:H2'	1:AA:802:A:C8	2.21	0.76
1:AA:886:G:C2'	1:AA:887:G:H5'	2.16	0.76
1:AA:887:G:H2'	1:AA:888:G:H8	1.50	0.76
5:AE:69:LEU:HB3	5:AE:162:ILE:CG2	2.13	0.76
5:AE:171:ALA:C	5:AE:174:VAL:HB	2.05	0.76
5:AE:213:LEU:HD23	5:AE:217:ARG:HD3	1.67	0.76
5:AE:233:SER:HB3	5:AE:234:PRO:CD	2.15	0.76
6:AF:193:TYR:N	6:AF:193:TYR:CD2	2.52	0.76
6:AF:182:ILE:HG12	6:AF:203:PHE:HD1	1.51	0.76
7:AG:96:LEU:HD23	7:AG:139:ARG:NH2	1.99	0.76
12:AL:47:LEU:HD13	12:AL:47:LEU:O	1.86	0.76
1:AA:363:A:H5''	15:AO:105:TYR:OH	1.86	0.76
15:AO:41:ARG:HG2	15:AO:42:THR:N	1.98	0.76
49:B1:5:LEU:O	49:B1:8:ALA:HB3	1.85	0.76
50:B2:22:ALA:O	50:B2:25:ALA:HB3	1.86	0.76
51:B3:5:ILE:CG2	51:B3:7:PRO:HD2	2.14	0.76
55:B7:14:VAL:HG12	55:B7:14:VAL:O	1.86	0.76
55:B7:21:LYS:HG2	55:B7:48:PHE:HE1	1.50	0.76
25:BA:1166:C:C2	25:BA:1184:G:N2	2.54	0.76
25:BA:1175:U:H5'	25:BA:1176:G:OP2	1.85	0.76
25:BA:1296:G:H2'	25:BA:1297:C:H6	1.51	0.76
25:BA:1613:G:H3'	25:BA:1614:A:H5'	1.66	0.76
25:BA:1993:U:C6	25:BA:1993:U:C3'	2.67	0.76
25:BA:2209:C:H2'	25:BA:2210:G:C3'	2.15	0.76
25:BA:2282:G:N2	25:BA:2425:A:N7	2.33	0.76
25:BA:2447:G:N7	25:BA:2500:U:H3'	1.99	0.76
25:BA:2572:A:H4'	25:BA:2573:C:C5'	2.15	0.76
25:BA:2682:U:N3	29:BE:21:VAL:HG11	2.01	0.76
25:BA:2731:G:O2'	25:BA:2732:G:H5'	1.86	0.76
25:BA:28:A:C2'	25:BA:29:U:H5'	2.16	0.76
25:BA:344:G:H8	25:BA:344:G:H3'	1.50	0.76
25:BA:637:A:H2	25:BA:651:G:C4'	1.96	0.76
25:BA:641:C:N4	25:BA:646:A:N6	2.34	0.76
18:AR:53:HIS:CD2	25:BA:715:G:H22	2.02	0.76
25:BA:740:U:O2'	25:BA:741:G:P	2.42	0.76
26:BB:28:C:H6	26:BB:28:C:O5'	1.67	0.76
27:BC:82:LYS:HG3	27:BC:118:ASP:OD2	1.86	0.76
29:BE:37:ARG:C	29:BE:39:PRO:HD3	2.05	0.76
30:BF:44:ARG:HG3	30:BF:45:ARG:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:1:MET:HB3	31:BG:2:PRO:CD	2.16	0.76
36:BN:2:ILE:HG22	36:BN:33:ALA:C	2.05	0.76
40:BR:106:ARG:NH2	40:BR:110:LEU:HD13	2.01	0.76
40:BR:56:LEU:H	40:BR:56:LEU:HD22	1.51	0.76
41:BS:30:VAL:C	41:BS:32:TYR:OH	2.24	0.76
41:BS:54:ARG:CG	41:BS:100:TYR:HB3	2.14	0.76
43:BU:5:VAL:HG12	43:BU:38:LEU:O	1.86	0.76
46:BX:13:VAL:CG2	46:BX:14:LEU:N	2.49	0.76
47:BY:50:GLN:HB3	47:BY:53:ILE:HG13	1.68	0.76
1:AA:1004:A:H4'	1:AA:1005:A:OP1	1.86	0.76
1:AA:283:C:N3	1:AA:284:G:C8	2.54	0.76
1:AA:384:G:H2'	1:AA:385:C:H6	1.47	0.76
5:AE:27:LYS:C	5:AE:194:PRO:HG2	2.05	0.76
5:AE:82:ARG:HD2	5:AE:92:TYR:HH	1.49	0.76
6:AF:175:LEU:HD21	6:AF:201:TYR:CD2	2.21	0.76
6:AF:36:ASP:HA	6:AF:39:ILE:HD12	1.67	0.76
6:AF:40:ARG:O	6:AF:43:LEU:HB3	1.86	0.76
6:AF:82:GLU:O	6:AF:85:ARG:HB3	1.85	0.76
7:AG:20:TYR:HD1	7:AG:21:LEU:H	1.33	0.76
7:AG:26:CYS:O	7:AG:31:CYS:SG	2.43	0.76
11:AK:9:MET:HA	11:AK:26:VAL:HG21	1.67	0.76
14:AN:15:ALA:HA	14:AN:77:MET:HG2	1.66	0.76
15:AO:82:VAL:O	15:AO:106:ASP:HB2	1.86	0.76
1:AA:582:U:C5'	18:AR:68:ARG:HH22	1.98	0.76
19:AS:16:HIS:ND1	19:AS:16:HIS:N	2.31	0.76
9:AI:60:PHE:CE2	21:AU:78:LEU:HD21	2.21	0.76
22:AV:62:ILE:HD11	22:AV:67:VAL:CA	2.15	0.76
25:BA:2230:G:O2'	51:B3:40:HIS:O	2.01	0.76
51:B3:66:SER:HA	51:B3:69:LYS:CG	2.16	0.76
53:B5:11:LEU:HD13	55:B7:35:GLN:HE21	1.51	0.76
37:BO:45:LEU:HD13	55:B7:59:LYS:HZ1	1.50	0.76
25:BA:1142:U:H6	25:BA:1142(A):A:C8	2.03	0.76
25:BA:1326:U:H2'	25:BA:1327:C:C5'	2.16	0.76
25:BA:2219:G:H2'	25:BA:2224:G:H5'	1.65	0.76
25:BA:2307:G:H4'	25:BA:2311:A:N6	2.01	0.76
25:BA:2409:G:N2	25:BA:2410:G:H1'	2.01	0.76
25:BA:323:G:H2'	30:BF:170:LEU:CB	2.10	0.76
25:BA:453:C:H4'	25:BA:457:A:H62	1.51	0.76
25:BA:547:A:H2'	25:BA:548:A:C8	2.21	0.76
25:BA:616:A:H4'	25:BA:617:G:OP1	1.84	0.76
25:BA:735:A:O5'	25:BA:735:A:H8	1.69	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BB:30:C:C2'	26:BB:31:C:H5'	2.15	0.76
28:BD:152:GLY:O	28:BD:154:LYS:N	2.18	0.76
28:BD:136:ILE:CG2	28:BD:165:ILE:HG12	2.15	0.76
28:BD:159:ALA:HA	28:BD:196:VAL:CG1	2.15	0.76
29:BE:23:VAL:HG22	29:BE:186:GLY:H	1.49	0.76
29:BE:53:PRO:CD	29:BE:75:VAL:HG22	2.15	0.76
25:BA:616:A:H1'	30:BF:180:GLY:HA3	1.68	0.76
30:BF:56:GLU:O	30:BF:58:ALA:C	2.24	0.76
32:BH:4:ILE:HD12	32:BH:4:ILE:N	2.01	0.76
33:BK:6:LEU:HD22	33:BK:7:GLU:OE2	1.86	0.76
35:BM:18:ALA:CA	35:BM:21:LYS:HD2	2.16	0.76
36:BN:96:THR:HG23	36:BN:97:ARG:N	1.94	0.76
37:BO:126:VAL:HB	37:BO:146:VAL:N	2.01	0.76
39:BQ:90:ARG:HH12	39:BQ:117:VAL:HG21	1.49	0.76
39:BQ:77:ARG:CZ	39:BQ:77:ARG:HB2	2.16	0.76
40:BR:41:ASP:OD2	40:BR:46:VAL:HG23	1.86	0.76
40:BR:95:HIS:CG	40:BR:96:GLY:N	2.53	0.76
42:BT:14:HIS:CG	42:BT:36:ARG:HH12	2.03	0.76
25:BA:534:U:O2'	42:BT:49:HIS:NE2	2.17	0.76
25:BA:1250:G:H4'	42:BT:6:THR:HG21	1.66	0.76
25:BA:1161:C:C1'	43:BU:22:VAL:HG11	2.15	0.76
44:BV:18:ARG:NE	44:BV:76:VAL:HG12	2.01	0.76
25:BA:336:C:O3'	46:BX:6:HIS:NE2	2.19	0.76
48:BZ:68:GLU:HB3	48:BZ:80:HIS:O	1.85	0.76
51:B3:13:ARG:CG	51:B3:14:ILE:H	1.90	0.76
1:AA:1143:G:H2'	1:AA:1144:G:C8	2.21	0.76
1:AA:1399:C:H4'	1:AA:1400:C:O5'	1.85	0.76
1:AA:1465:C:N4	1:AA:1466:C:C4	2.54	0.76
1:AA:1408:A:H2	1:AA:1495:U:H5	1.34	0.76
1:AA:1534:A:OP2	1:AA:1534:A:H8	1.66	0.76
1:AA:186:C:H2'	1:AA:186(A):C:H6	1.51	0.76
1:AA:219:C:H3'	1:AA:219:C:C6	2.21	0.76
1:AA:313:A:H2'	1:AA:314:C:H6	1.46	0.76
1:AA:451:A:H1'	1:AA:452:A:C4	2.21	0.76
1:AA:862:C:H1'	1:AA:874:G:C5'	2.12	0.76
5:AE:204:ASN:ND2	5:AE:205:ASP:N	2.31	0.76
6:AF:38:ARG:HH11	6:AF:38:ARG:CB	1.98	0.76
7:AG:122:ARG:O	7:AG:124:GLY:N	2.18	0.76
10:AJ:45:ASP:O	10:AJ:48:LYS:HB2	1.85	0.76
13:AM:14:LYS:HA	13:AM:17:ASP:OD2	1.86	0.76
15:AO:54:LYS:O	15:AO:70:ILE:HG13	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:85:ILE:HD11	15:AO:98:TYR:HB3	1.66	0.76
16:AP:91:ARG:HD3	16:AP:96:LEU:HD21	1.67	0.76
25:BA:2345:G:OP1	53:B5:39:TYR:HA	1.85	0.76
25:BA:1222:C:H42	25:BA:1227:A:N6	1.84	0.76
25:BA:1790:C:O2'	28:BD:209:ALA:HB3	1.86	0.76
25:BA:2011:U:H2'	25:BA:2012:G:O4'	1.86	0.76
25:BA:2207:C:H2'	25:BA:2208:U:C4'	2.16	0.76
25:BA:2225:A:C5'	25:BA:2226:C:H6	1.97	0.76
25:BA:2344:U:C5'	53:B5:38:LYS:HG3	2.14	0.76
25:BA:2371:G:H5'	53:B5:45:LYS:CB	2.03	0.76
25:BA:252:G:N2	25:BA:253:C:H1'	2.01	0.76
25:BA:2689:U:H5'	25:BA:2690:C:C5'	2.16	0.76
25:BA:2764:A:N7	25:BA:2766:G:C6	2.54	0.76
25:BA:2807:G:N1	25:BA:2892:A:N7	2.34	0.76
25:BA:411:G:H4'	25:BA:2406:U:H5'	1.66	0.76
25:BA:451:C:H41	25:BA:453:C:H3'	1.51	0.76
25:BA:665:C:H2'	25:BA:666:G:C8	2.21	0.76
28:BD:171:ASP:O	28:BD:186:HIS:HA	1.85	0.76
28:BD:42:GLY:HA2	28:BD:60:ARG:HH12	1.50	0.76
29:BE:49:LEU:HD13	29:BE:50:GLY:H	1.51	0.76
29:BE:30:PRO:HD2	29:BE:90:THR:O	1.86	0.76
30:BF:52:LYS:HZ1	30:BF:88:VAL:HG21	1.51	0.76
35:BM:69:GLN:NE2	35:BM:69:GLN:N	2.34	0.76
40:BR:32:LEU:O	40:BR:35:ILE:HG22	1.85	0.76
40:BR:64:GLU:OE2	40:BR:67:ARG:HB3	1.86	0.76
42:BT:101:ARG:HH11	42:BT:101:ARG:CB	1.98	0.76
42:BT:9:VAL:O	42:BT:13:LYS:CD	2.34	0.76
42:BT:83:LEU:O	42:BT:86:ALA:CB	2.32	0.76
42:BT:92:ARG:HA	42:BT:95:LEU:H	1.49	0.76
43:BU:36:PRO:CA	43:BU:61:VAL:HG22	2.16	0.76
46:BX:94:LYS:O	46:BX:95:LYS:O	2.04	0.76
48:BZ:33:ALA:HA	48:BZ:61:ALA:O	1.84	0.76
34:BL:138:VAL:O	34:BL:139:VAL:HG23	1.84	0.76
1:AA:1003:G:C6	1:AA:1004:A:H1'	2.20	0.76
1:AA:1023:G:H2'	1:AA:1024:G:H5'	1.67	0.76
1:AA:1107:C:H2'	1:AA:1108:G:C5'	2.14	0.76
1:AA:1196:U:H6	1:AA:1196:U:H3'	1.48	0.76
1:AA:1506:U:H3'	1:AA:1507:A:H5'	1.66	0.76
1:AA:298:A:H3'	1:AA:299:G:C8	2.19	0.76
1:AA:901:A:C2	1:AA:902:G:C1'	2.64	0.76
2:AC:60:U:OP2	2:AC:60:U:C6	2.39	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:15:G:N1	3:AD:48:C:N4	2.34	0.76
5:AE:118:LEU:HD12	5:AE:145:LEU:HD23	1.66	0.76
5:AE:71:VAL:HG13	5:AE:93:VAL:O	1.86	0.76
1:AA:408:A:H5'	7:AG:116:GLN:CG	2.15	0.76
7:AG:61:LYS:N	7:AG:203:VAL:HG22	2.00	0.76
7:AG:61:LYS:HG3	7:AG:207:TYR:HE1	1.49	0.76
10:AJ:78:ARG:HG3	10:AJ:80:VAL:HG23	1.67	0.76
12:AL:112:LYS:HB2	12:AL:117:HIS:O	1.85	0.76
13:AM:72:VAL:O	13:AM:73:ASP:HB2	1.83	0.76
14:AN:102:GLY:HA2	14:AN:105:VAL:CG2	2.17	0.76
14:AN:96:ARG:HG3	14:AN:99:GLN:OE1	1.86	0.76
16:AP:17:VAL:HG21	16:AP:44:ARG:HH12	1.50	0.76
17:AQ:16:PHE:HB3	17:AQ:18:VAL:HG22	1.68	0.76
20:AT:85:VAL:O	20:AT:89:LEU:HG	1.85	0.76
45:BW:7:VAL:HG21	49:B1:31:ARG:HH12	1.49	0.76
51:B3:21:VAL:HG13	51:B3:23:GLU:HG3	1.67	0.76
54:B6:32:LYS:HA	54:B6:35:ARG:HH11	1.51	0.76
25:BA:1203:G:N1	25:BA:1241:A:N9	2.33	0.76
25:BA:1204:A:C4'	25:BA:1204:A:OP2	2.34	0.76
25:BA:1264:G:O6	25:BA:1265:A:N6	2.19	0.76
25:BA:1508:A:N3	25:BA:1508:A:OP2	2.19	0.76
25:BA:1710:C:O5'	25:BA:1710:C:H6	1.68	0.76
25:BA:1743:G:O3'	25:BA:1743:G:OP1	2.03	0.76
25:BA:1993:U:C3'	25:BA:1993:U:H6	1.99	0.76
25:BA:530:G:N1	25:BA:2022:U:OP1	2.18	0.76
25:BA:242:G:H2'	25:BA:254:G:H1	1.51	0.76
25:BA:573:G:H2'	25:BA:574:C:H3'	1.67	0.76
29:BE:203:LYS:O	29:BE:203:LYS:HD3	1.86	0.76
30:BF:38:ARG:NH1	37:BO:9:ASN:O	2.19	0.76
32:BH:118:PRO:HD2	32:BH:121:ILE:HD13	1.68	0.76
40:BR:65:VAL:O	40:BR:69:VAL:HG23	1.86	0.76
41:BS:48:ILE:HD13	41:BS:50:ILE:HD13	1.67	0.76
33:BK:92:VAL:HB	33:BK:120:ILE:O	1.84	0.76
1:AA:1023:G:O6	1:AA:1024:G:N2	2.17	0.76
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.50	0.75
1:AA:1408:A:N7	1:AA:1409:C:C5	2.54	0.75
1:AA:1440:C:H2'	1:AA:1441:G:H8	1.51	0.75
1:AA:1505:G:H5''	1:AA:1506:U:C5'	2.17	0.75
1:AA:390:C:C4	1:AA:391:G:N7	2.55	0.75
3:AD:35:A:H2'	3:AD:36:A:O4'	1.86	0.75
7:AG:151:LYS:O	7:AG:154:ASN:ND2	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:20:TYR:O	7:AG:22:LYS:N	2.19	0.75
8:AH:37:ARG:HH12	8:AH:112:LEU:HD22	1.46	0.75
10:AJ:135:VAL:O	10:AJ:138:LYS:HB3	1.85	0.75
1:AA:599:C:C4'	11:AK:130:GLY:HA3	2.10	0.75
1:AA:643:C:H5'	11:AK:31:PHE:CD1	2.20	0.75
13:AM:34:VAL:CG1	13:AM:35:SER:H	1.99	0.75
14:AN:102:GLY:HA2	14:AN:105:VAL:HG23	1.68	0.75
18:AR:31:LEU:O	18:AR:34:LEU:HD23	1.84	0.75
1:AA:376:G:OP1	19:AS:5:ARG:HB2	1.86	0.75
25:BA:1158:C:H4'	50:B2:32:GLN:HB2	1.66	0.75
55:B7:26:LYS:HD2	55:B7:44:LYS:N	2.01	0.75
25:BA:1139:G:H8	25:BA:1139:G:O5'	1.69	0.75
25:BA:1147:C:C2'	25:BA:1148:A:H5'	2.15	0.75
25:BA:1198:U:H2'	25:BA:1199:U:H5	1.48	0.75
25:BA:1345:C:O2'	25:BA:1346:G:H5'	1.87	0.75
25:BA:1491:G:H2'	25:BA:1492:G:H4'	1.67	0.75
25:BA:1515:C:H6	25:BA:1515:C:OP2	1.68	0.75
25:BA:1570:A:N6	25:BA:1571:A:H62	1.84	0.75
25:BA:1813:G:H4'	28:BD:46:GLN:CB	2.16	0.75
25:BA:1864:U:C2'	25:BA:1869:G:H5'	2.15	0.75
25:BA:190:A:H2'	25:BA:191:A:C8	2.20	0.75
25:BA:2015:A:N7	52:B4:6:VAL:CG2	2.47	0.75
25:BA:2208:U:O2'	25:BA:2209:C:H5'	1.85	0.75
25:BA:526:A:N1	25:BA:2626:C:O4'	2.19	0.75
25:BA:271(C):U:O2'	25:BA:271:G:H4'	1.85	0.75
25:BA:274:G:C2'	25:BA:275:G:H5'	2.15	0.75
25:BA:2747:G:O6	25:BA:2755:C:H5'	1.87	0.75
25:BA:303:U:O2'	25:BA:304:G:H5'	1.86	0.75
25:BA:374:A:C3'	25:BA:375:C:H6	1.98	0.75
25:BA:455:C:C5'	25:BA:456:C:OP1	2.34	0.75
25:BA:541:C:H2'	25:BA:542:C:H6	1.44	0.75
28:BD:66:ASP:OD2	28:BD:103:ARG:HD3	1.86	0.75
28:BD:246:PRO:CG	28:BD:252:TRP:HA	2.15	0.75
28:BD:58:HIS:O	28:BD:59:LYS:CG	2.34	0.75
30:BF:133:ASN:O	30:BF:162:LEU:HB3	1.86	0.75
30:BF:38:ARG:O	30:BF:41:LEU:HG	1.86	0.75
33:BK:2:LYS:HD2	33:BK:39:ALA:HB2	1.66	0.75
36:BN:15:GLY:H	36:BN:52:VAL:CG2	1.98	0.75
25:BA:2415:G:OP1	37:BO:61:ARG:CZ	2.34	0.75
38:BP:91:GLU:N	38:BP:91:GLU:OE2	2.15	0.75
43:BU:6:LYS:HG2	43:BU:12:TYR:H	1.48	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:36:LEU:HD23	44:BV:51:LEU:HD21	1.66	0.75
48:BZ:19:LYS:HZ1	48:BZ:41:ARG:NH2	1.83	0.75
48:BZ:70:GLN:CG	48:BZ:72:ARG:HG2	2.12	0.75
34:BL:95:LYS:HG2	34:BL:137:GLU:OE2	1.86	0.75
22:AV:29:ARG:HG2	22:AV:30:LEU:H	1.52	0.75
1:AA:122:G:H2'	1:AA:123:C:O4'	1.86	0.75
1:AA:1522:U:O2'	1:AA:1523:G:H5'	1.85	0.75
1:AA:292:G:OP2	1:AA:293:G:N7	2.19	0.75
1:AA:371:G:C2'	1:AA:372:C:H5'	2.17	0.75
1:AA:392:G:H5'	19:AS:12:LYS:CE	2.16	0.75
1:AA:675:A:H2'	1:AA:676:A:C8	2.21	0.75
1:AA:738:C:C2	1:AA:739:C:C5	2.74	0.75
3:AD:55:U:H2'	3:AD:57:G:N7	2.02	0.75
7:AG:179:GLU:HG2	7:AG:180:GLY:N	2.01	0.75
7:AG:19:LEU:O	7:AG:26:CYS:SG	2.44	0.75
7:AG:60:GLU:HG2	7:AG:203:VAL:CG2	2.15	0.75
8:AH:109:ILE:HG23	8:AH:110:LEU:N	2.00	0.75
11:AK:10:LEU:HD13	11:AK:85:ARG:HB2	1.67	0.75
15:AO:5:PRO:HB3	15:AO:10:LEU:CD2	2.13	0.75
18:AR:56:LEU:O	18:AR:59:MET:HB3	1.87	0.75
23:AW:58:LYS:O	23:AW:62:LEU:HD12	1.86	0.75
49:B1:14:VAL:HG13	49:B1:18:LYS:HZ1	1.49	0.75
50:B2:11:SER:N	50:B2:12:PRO:CD	2.50	0.75
51:B3:7:PRO:CG	51:B3:60:GLN:HG3	2.17	0.75
55:B7:40:GLU:C	55:B7:42:ARG:H	1.89	0.75
25:BA:1587:A:H2'	25:BA:1588:C:C6	2.22	0.75
25:BA:1872:A:H2'	25:BA:1878:G:C5'	2.16	0.75
25:BA:1858:G:N2	25:BA:1885:A:H62	1.83	0.75
25:BA:1912:A:N1	25:BA:1919:A:N3	2.35	0.75
25:BA:1935:G:H1'	25:BA:1964:G:N2	2.02	0.75
25:BA:209:C:O2'	25:BA:210:C:H5'	1.85	0.75
25:BA:2286:A:N6	53:B5:29:ASN:O	2.18	0.75
25:BA:2311:A:C5'	25:BA:2312:U:H5	1.96	0.75
25:BA:2469:A:H5'	25:BA:2469:A:C8	2.20	0.75
25:BA:2653:U:C6	25:BA:2654:A:N7	2.54	0.75
25:BA:2681:C:N4	25:BA:2725:A:N7	2.35	0.75
25:BA:2808:U:O3'	25:BA:2810:A:OP1	2.05	0.75
25:BA:566:U:C5	25:BA:567:A:N7	2.55	0.75
26:BB:67:G:H2'	26:BB:68:C:H6	1.52	0.75
26:BB:71:C:H2'	26:BB:72:G:C5'	2.15	0.75
27:BC:108:MET:HA	27:BC:110:PHE:CE2	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:14:VAL:HG12	27:BC:15:ASP:N	2.01	0.75
28:BD:16:MET:O	28:BD:19:ALA:HB3	1.87	0.75
28:BD:172:TYR:HB3	28:BD:184:LYS:HB3	1.69	0.75
25:BA:2593:U:O4	28:BD:239:ARG:NH1	2.19	0.75
28:BD:96:HIS:NE2	28:BD:102:LYS:HE2	2.01	0.75
36:BN:77:ILE:HG23	41:BS:65:LYS:HE2	1.68	0.75
25:BA:636:G:N2	37:BO:75:ILE:HD12	2.01	0.75
38:BP:74:TYR:OH	38:BP:94:VAL:CG2	2.33	0.75
41:BS:34:VAL:C	41:BS:36:GLU:H	1.86	0.75
47:BY:2:GLU:OE2	47:BY:60:GLU:HG3	1.86	0.75
33:BK:76:THR:HB	33:BK:141:LYS:HD2	1.68	0.75
28:BD:273:ARG:HH11	28:BD:273:ARG:HG3	1.49	0.75
4:A1:15:A:H3'	4:A1:15:A:C8	2.20	0.75
1:AA:1068:G:OP2	1:AA:1094:G:H5'	1.86	0.75
1:AA:1163:C:C2'	1:AA:1164:G:H5'	2.16	0.75
1:AA:1500:A:OP1	1:AA:1508:G:OP1	2.04	0.75
1:AA:293:G:N3	1:AA:293:G:H2'	2.00	0.75
1:AA:381:C:H2'	1:AA:382:A:H8	1.48	0.75
1:AA:811:C:H5'	1:AA:812:C:OP2	1.85	0.75
3:AD:18:G:H21	3:AD:58:A:C5'	2.00	0.75
5:AE:115:LEU:HD12	5:AE:118:LEU:HD13	1.68	0.75
5:AE:22:LYS:O	5:AE:24:TRP:HD1	1.69	0.75
5:AE:47:THR:HG22	5:AE:51:LEU:HD11	1.68	0.75
5:AE:74:LYS:HZ3	5:AE:76:GLN:HB2	1.51	0.75
6:AF:43:LEU:HD22	6:AF:44:GLU:HG3	1.68	0.75
6:AF:52:LEU:O	6:AF:115:LEU:HD21	1.85	0.75
7:AG:58:LEU:HD13	7:AG:59:ARG:HD2	1.67	0.75
8:AH:107:ARG:CZ	8:AH:107:ARG:HB2	2.14	0.75
11:AK:14:ARG:NH1	11:AK:14:ARG:HB3	1.99	0.75
11:AK:22:GLU:O	11:AK:62:TYR:HA	1.85	0.75
14:AN:67:ASP:HA	14:AN:70:LYS:HD2	1.68	0.75
16:AP:64:TRP:CD1	16:AP:66:LEU:HD22	2.21	0.75
17:AQ:12:ARG:HB3	17:AQ:14:PRO:HD3	1.68	0.75
19:AS:34:GLU:HB3	19:AS:59:TRP:HE1	1.50	0.75
23:AW:83:ARG:O	23:AW:86:ARG:HG2	1.86	0.75
53:B5:17:LYS:HE2	53:B5:49:HIS:H	1.50	0.75
25:BA:49:A:H1'	25:BA:118:A:N6	2.00	0.75
25:BA:133:C:H2'	25:BA:134:C:C6	2.22	0.75
25:BA:1352:U:H1'	25:BA:1570:A:C2	2.21	0.75
25:BA:1970:A:O2'	25:BA:1971:A:OP2	2.03	0.75
25:BA:2110:G:C2'	25:BA:2120:G:H5'	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2572:A:H4'	25:BA:2573:C:OP1	1.84	0.75
25:BA:2594:C:H2'	25:BA:2595:G:H8	1.51	0.75
25:BA:1051:G:H5'	25:BA:2752:C:H1'	1.68	0.75
25:BA:339:U:C4	25:BA:340:A:N6	2.54	0.75
25:BA:446:G:C8	25:BA:446:G:OP2	2.38	0.75
25:BA:623:G:OP2	37:BO:105:LEU:HD11	1.84	0.75
25:BA:94:G:N2	25:BA:95:G:H1'	2.02	0.75
26:BB:112:G:N3	26:BB:112:G:H2'	2.00	0.75
25:BA:2120:G:H21	27:BC:167:LYS:HZ2	1.34	0.75
29:BE:4:ILE:HG23	29:BE:27:LEU:CD1	2.16	0.75
30:BF:182:ASN:HD21	30:BF:185:ASP:CG	1.88	0.75
31:BG:19:LEU:HA	31:BG:22:ARG:HG2	1.67	0.75
32:BH:24:VAL:HG21	32:BH:72:ILE:HD13	1.67	0.75
32:BH:36:PRO:HD2	32:BH:71:LEU:HD21	1.67	0.75
32:BH:68:THR:HG22	32:BH:72:ILE:HD11	1.68	0.75
37:BO:117:GLU:CG	37:BO:118:GLY:H	1.99	0.75
38:BP:27:VAL:HG13	38:BP:104:PHE:HE2	1.51	0.75
36:BN:77:ILE:HD13	41:BS:65:LYS:HE2	1.68	0.75
42:BT:48:ALA:C	42:BT:52:ARG:HE	1.89	0.75
43:BU:69:LYS:N	43:BU:92:THR:HB	2.01	0.75
45:BW:27:THR:HA	45:BW:80:ILE:HG23	1.67	0.75
33:BK:62:LYS:O	33:BK:65:ALA:HB3	1.86	0.75
1:AA:1180:A:OP1	12:AL:102:LEU:CB	2.33	0.75
1:AA:1507:A:C2	1:AA:1530:G:C1'	2.69	0.75
1:AA:21:G:C8	1:AA:22:G:N7	2.54	0.75
2:AC:20:U:O2	2:AC:20:U:H3'	1.86	0.75
5:AE:15:VAL:HG22	5:AE:209:ARG:HH11	1.51	0.75
5:AE:49:GLU:O	5:AE:52:GLU:HB3	1.86	0.75
5:AE:97:TRP:HZ2	5:AE:102:LEU:HD13	1.52	0.75
7:AG:192:GLU:H	7:AG:192:GLU:CD	1.89	0.75
8:AH:39:GLY:HA2	8:AH:69:VAL:HB	1.66	0.75
9:AI:11:ASN:HD21	9:AI:13:ASN:HB2	1.50	0.75
11:AK:102:ARG:HH11	11:AK:102:ARG:HG2	1.50	0.75
14:AN:97:ALA:O	14:AN:100:ALA:HB3	1.85	0.75
16:AP:3:ARG:HA	16:AP:7:VAL:HA	1.66	0.75
19:AS:19:ILE:HD11	19:AS:39:TYR:HB2	1.69	0.75
49:B1:3:LYS:HA	49:B1:6:GLU:HG2	1.69	0.75
51:B3:20:ASN:HB2	51:B3:30:GLU:OE2	1.87	0.75
51:B3:28:LYS:HE3	51:B3:29:PRO:CD	2.16	0.75
25:BA:1309:G:OP1	54:B6:9:ARG:HB2	1.85	0.75
55:B7:5:LYS:HG3	55:B7:7:HIS:HA	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1218:C:O2'	25:BA:1219:G:H5'	1.86	0.75
25:BA:1784:A:H4'	25:BA:1785:A:C8	2.20	0.75
25:BA:1787:A:C8	25:BA:1787:A:O5'	2.38	0.75
25:BA:2277:G:H5''	48:BZ:12:ASN:ND2	2.02	0.75
25:BA:2459:A:C2'	25:BA:2460:U:O4'	2.32	0.75
25:BA:2706:G:H2'	25:BA:2707:G:O5'	1.86	0.75
25:BA:301:G:OP1	25:BA:301:G:H4'	1.86	0.75
25:BA:311:A:H3'	25:BA:312:G:H8	1.51	0.75
25:BA:38:A:H2'	25:BA:39:C:C6	2.20	0.75
25:BA:449:A:H2'	25:BA:450:G:O4'	1.87	0.75
25:BA:815:C:O2'	25:BA:816:C:C5'	2.35	0.75
25:BA:820:A:OP2	25:BA:973:A:N6	2.19	0.75
25:BA:904:C:O2'	25:BA:905:U:H5'	1.86	0.75
26:BB:17:C:H2'	26:BB:18:G:O4'	1.86	0.75
28:BD:185:VAL:HG12	28:BD:189:CYS:SG	2.26	0.75
25:BA:2227:A:H1'	28:BD:262:ARG:HD2	1.69	0.75
29:BE:172:VAL:HA	29:BE:184:VAL:HG12	1.67	0.75
29:BE:104:VAL:HG13	29:BE:197:ILE:O	1.87	0.75
29:BE:53:PRO:HD2	29:BE:74:PRO:C	2.07	0.75
30:BF:44:ARG:HG3	30:BF:45:ARG:N	2.01	0.75
31:BG:141:PHE:C	31:BG:143:GLU:N	2.35	0.75
25:BA:2312:U:H4'	31:BG:43:LEU:HD11	1.68	0.75
32:BH:163:TYR:CE2	32:BH:169:VAL:HG11	2.21	0.75
35:BM:25:ARG:HG3	35:BM:26:LEU:H	1.51	0.75
37:BO:49:ARG:HH12	55:B7:55:ALA:HB1	1.52	0.75
37:BO:59:LEU:H	37:BO:60:MET:CE	1.98	0.75
38:BP:67:ARG:HB3	38:BP:103:MET:HA	1.69	0.75
38:BP:45:GLN:O	38:BP:48:GLU:HG2	1.87	0.75
38:BP:9:TYR:N	38:BP:9:TYR:CD2	2.54	0.75
42:BT:17:ILE:O	42:BT:20:LEU:HB2	1.87	0.75
43:BU:12:TYR:CE1	43:BU:14:VAL:HB	2.21	0.75
43:BU:83:ARG:NH2	43:BU:85:LYS:HD2	2.01	0.75
44:BV:82:LEU:HD12	44:BV:84:ARG:HG3	1.67	0.75
45:BW:5:TYR:HB3	49:B1:24:LYS:CD	2.16	0.75
47:BY:103:ARG:HB2	47:BY:138:GLU:HG2	1.68	0.75
47:BY:15:PRO:O	47:BY:18:LEU:HB2	1.85	0.75
34:BL:115:LEU:HD21	34:BL:126:MET:SD	2.27	0.75
25:BA:1081:U:H4'	34:BL:122:ALA:HB1	1.68	0.75
34:BL:12:LEU:HD22	34:BL:23:VAL:HG23	1.68	0.75
1:AA:1443:G:C4'	1:AA:1446:A:H5'	2.13	0.75
1:AA:1003:G:C5	1:AA:1004:A:H1'	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1068:G:N7	1:AA:1094:G:N7	2.35	0.75
1:AA:1192:C:N4	1:AA:1193:G:C6	2.54	0.75
1:AA:600:C:H5'	11:AK:129:VAL:HA	1.68	0.75
7:AG:152:SER:O	7:AG:158:ILE:HG13	1.86	0.75
7:AG:173:TRP:NE1	7:AG:189:PRO:HB3	2.02	0.75
9:AI:50:TYR:O	9:AI:52:ILE:N	2.18	0.75
10:AJ:45:ASP:HB2	10:AJ:117:ALA:HB1	1.66	0.75
11:AK:39:LEU:HB3	11:AK:45:ILE:HG22	1.66	0.75
13:AM:40:LEU:HD12	13:AM:71:LEU:HD21	1.69	0.75
14:AN:32:ILE:O	14:AN:40:ILE:HD13	1.87	0.75
16:AP:48:LEU:CD1	16:AP:53:VAL:HG22	2.16	0.75
16:AP:60:VAL:HG22	16:AP:64:TRP:CE3	2.20	0.75
1:AA:189:U:O4	20:AT:63:ARG:HB2	1.87	0.75
21:AU:17:SER:HB3	21:AU:54:ARG:NH2	2.01	0.75
49:B1:3:LYS:O	49:B1:6:GLU:HG2	1.87	0.75
25:BA:1275:A:H62	25:BA:1296:G:H5'	1.50	0.75
25:BA:1359:A:H62	25:BA:1371:G:H21	1.33	0.75
25:BA:1458:C:H4'	25:BA:1459:G:C5	2.22	0.75
25:BA:1496:A:N1	25:BA:1498:C:N4	2.35	0.75
25:BA:1509:C:OP1	25:BA:1510:A:C8	2.39	0.75
25:BA:1673:U:C2'	25:BA:1674:G:O5'	2.35	0.75
25:BA:1878:G:H2'	25:BA:1879:C:C6	2.21	0.75
25:BA:2010:G:H2'	25:BA:2011:U:H5'	1.69	0.75
25:BA:2351:G:H22	25:BA:2365:G:H2'	1.51	0.75
25:BA:2459:A:C2	25:BA:2460:U:H1'	2.20	0.75
25:BA:2463:C:C2'	25:BA:2464:C:H5'	2.17	0.75
25:BA:2498:C:C2'	25:BA:2499:C:H5''	2.15	0.75
25:BA:2570:G:C5'	25:BA:2571:C:OP2	2.32	0.75
25:BA:1050:A:N6	25:BA:2751:G:C6	2.55	0.75
25:BA:2781:A:C3'	25:BA:2781:A:C8	2.67	0.75
25:BA:2808:U:OP1	25:BA:2809:A:OP2	2.04	0.75
25:BA:2865:U:O4	25:BA:2866:U:H5	1.68	0.75
25:BA:511:U:O4	25:BA:512:G:H1'	1.86	0.75
25:BA:712:G:C4	25:BA:713:G:N7	2.55	0.75
25:BA:832:G:H8	25:BA:944:G:N2	1.82	0.75
25:BA:900:A:C8	25:BA:901:A:C8	2.74	0.75
26:BB:68:C:C2'	26:BB:69:G:H8	2.00	0.75
27:BC:10:LEU:HD12	27:BC:13:LYS:HD2	1.68	0.75
28:BD:242:ARG:O	28:BD:243:GLY:C	2.23	0.75
29:BE:93:VAL:O	29:BE:94:GLU:HG2	1.86	0.75
25:BA:674:G:H4'	30:BF:74:ARG:CZ	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:8:GLN:C	30:BF:9:ILE:HD12	2.07	0.75
35:BM:123:TYR:C	35:BM:125:GLY:N	2.40	0.75
36:BN:39:ILE:O	36:BN:59:LYS:NZ	2.20	0.75
37:BO:117:GLU:OE2	37:BO:117:GLU:N	2.19	0.75
38:BP:67:ARG:HD3	38:BP:103:MET:SD	2.27	0.75
41:BS:17:THR:HB	41:BS:20:PRO:CD	2.16	0.75
25:BA:2848:G:C2'	41:BS:99:LEU:HD21	2.11	0.75
42:BT:108:GLU:O	42:BT:109:LEU:C	2.25	0.75
44:BV:28:SER:HA	44:BV:70:TYR:HA	1.69	0.75
46:BX:15:VAL:CG2	46:BX:70:SER:HB2	2.16	0.75
33:BK:57:ARG:O	33:BK:61:ARG:HG2	1.86	0.75
34:BL:61:ALA:C	34:BL:63:ARG:H	1.89	0.75
34:BL:51:ALA:O	34:BL:80:LYS:HE3	1.87	0.75
1:AA:1216:G:H2'	1:AA:1217:C:H6	1.50	0.75
1:AA:1416:G:H2'	1:AA:1417:G:H8	1.52	0.75
1:AA:173:U:C5'	1:AA:197:A:C1'	2.65	0.75
1:AA:611:A:N6	1:AA:629:G:N1	2.34	0.75
1:AA:892:A:H2'	1:AA:893:C:H6	1.52	0.75
1:AA:986:A:H4'	22:AV:55:LYS:HE3	1.68	0.75
5:AE:87:ARG:O	5:AE:89:GLY:N	2.20	0.75
6:AF:179:ARG:HG2	6:AF:206:GLU:CG	2.15	0.75
9:AI:1:MET:CE	9:AI:68:PRO:HG3	2.16	0.75
9:AI:48:LEU:CD2	9:AI:60:PHE:HZ	1.99	0.75
9:AI:65:VAL:HG23	9:AI:66:GLU:N	2.00	0.75
9:AI:98:LEU:CD2	21:AU:28:GLU:HA	2.16	0.75
10:AJ:22:LEU:HD23	10:AJ:63:LYS:HZ2	1.48	0.75
11:AK:6:ILE:HG21	11:AK:85:ARG:HH22	1.52	0.75
12:AL:55:ALA:CB	12:AL:58:HIS:CE1	2.69	0.75
14:AN:48:ILE:HD11	14:AN:64:ALA:HA	1.69	0.75
1:AA:728:A:H8	18:AR:54:ARG:CZ	2.00	0.75
1:AA:228:A:H1'	19:AS:62:VAL:HG11	1.69	0.75
21:AU:66:LEU:HD12	21:AU:67:ALA:CA	2.16	0.75
49:B1:20:VAL:HA	49:B1:55:LEU:CD2	2.15	0.75
53:B5:17:LYS:HD3	53:B5:17:LYS:N	2.01	0.75
25:BA:1024:G:C2	25:BA:1139:G:N2	2.52	0.75
25:BA:1166:C:H2'	25:BA:1167:U:C6	2.22	0.75
25:BA:134:C:C2	25:BA:146:G:N2	2.55	0.75
25:BA:1558:A:O2'	25:BA:1559:G:N7	2.17	0.75
25:BA:15:G:H4'	52:B4:21:SER:HB3	1.69	0.75
25:BA:13:A:N7	25:BA:15:G:O6	2.20	0.75
25:BA:1271:G:H2'	25:BA:1618:A:OP1	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1689:A:C2	25:BA:1690:A:N7	2.54	0.75
25:BA:1821:A:H2'	25:BA:1822:G:H8	1.52	0.75
25:BA:1966:A:O2'	25:BA:1967:C:OP2	2.04	0.75
25:BA:2006:C:O2'	25:BA:2823:A:N3	2.19	0.75
25:BA:2014:A:C2'	25:BA:2015:A:N3	2.50	0.75
25:BA:2117:A:N6	25:BA:2171:A:N1	2.34	0.75
25:BA:28:A:H1'	25:BA:513:A:N1	2.01	0.75
25:BA:289:A:C2'	25:BA:351:G:H22	2.00	0.75
25:BA:881:G:H1	25:BA:896:A:H61	1.32	0.75
26:BB:103:U:H1'	47:BY:72:ARG:HD2	1.69	0.75
26:BB:27:C:N4	26:BB:56:G:H1	1.85	0.75
25:BA:2120:G:N2	27:BC:167:LYS:NZ	2.33	0.75
28:BD:10:THR:HA	28:BD:23:GLU:OE2	1.87	0.75
32:BH:149:ARG:HA	32:BH:162:ILE:CG1	2.17	0.75
32:BH:7:LEU:HA	32:BH:52:VAL:HG13	1.65	0.75
37:BO:147:LEU:HD13	37:BO:148:LEU:N	2.02	0.75
38:BP:34:LEU:CD2	38:BP:118:LEU:HD22	2.16	0.75
38:BP:134:ARG:NE	38:BP:137:TYR:HA	2.01	0.75
39:BQ:26:LYS:HE2	39:BQ:70:LEU:CA	2.16	0.75
41:BS:64:ARG:O	41:BS:65:LYS:C	2.24	0.75
41:BS:52:ILE:HA	41:BS:66:VAL:CG1	2.16	0.75
43:BU:41:GLY:N	43:BU:51:VAL:HG22	2.01	0.75
25:BA:484:C:OP1	46:BX:48:ALA:HB1	1.86	0.75
47:BY:10:ARG:O	47:BY:14:LYS:HD3	1.86	0.75
47:BY:98:MET:HE2	47:BY:133:ILE:HD13	1.69	0.75
48:BZ:38:VAL:HG23	48:BZ:59:LEU:CD1	2.15	0.75
1:AA:186:C:O2'	1:AA:186(A):C:H5'	1.86	0.75
1:AA:863:U:H2'	1:AA:863:U:O2	1.84	0.75
1:AA:983:A:C2	1:AA:984:C:C6	2.74	0.75
6:AF:172:ARG:HB3	6:AF:172:ARG:NH1	2.02	0.75
7:AG:3:ARG:HH11	7:AG:3:ARG:HG3	1.51	0.75
14:AN:91:ARG:O	14:AN:94:ALA:HB3	1.87	0.75
16:AP:14:ARG:CA	16:AP:44:ARG:HA	2.17	0.75
16:AP:51:ALA:O	16:AP:54:VAL:HB	1.86	0.75
16:AP:29:ARG:CZ	16:AP:64:TRP:HE1	1.99	0.75
53:B5:35:GLU:CD	53:B5:52:VAL:HG13	2.07	0.75
55:B7:5:LYS:HB3	55:B7:60:LEU:HA	1.65	0.75
25:BA:125:G:H22	54:B6:10:ARG:CA	2.00	0.75
25:BA:1266:G:N3	44:BV:15:ARG:NH1	2.35	0.75
25:BA:1273:U:H4'	25:BA:1275:A:OP2	1.87	0.75
25:BA:1298:C:C4'	25:BA:1302:A:H62	1.99	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1356:G:H2'	25:BA:1357:U:H6	1.51	0.75
25:BA:1376:C:H2'	25:BA:1377:G:O4'	1.86	0.75
25:BA:1565:C:OP1	28:BD:24:ILE:HG21	1.86	0.75
25:BA:1966:A:N3	25:BA:2593:U:H5'	2.01	0.75
25:BA:200:U:H5	25:BA:201:C:C6	2.04	0.75
25:BA:2331:G:C2	25:BA:2385:C:N4	2.54	0.75
25:BA:2324:C:O2	25:BA:2385:C:H5	1.70	0.75
25:BA:411:G:O4'	25:BA:2407:G:OP2	2.05	0.75
25:BA:2453:A:H2	25:BA:2504:U:C2	2.03	0.75
25:BA:2764:A:N7	25:BA:2766:G:C5	2.54	0.75
25:BA:279:C:H41	25:BA:359:A:C1'	1.97	0.75
25:BA:2805:G:H2'	25:BA:2807:G:O4'	1.87	0.75
25:BA:2850:A:H2'	25:BA:2851:A:H8	1.51	0.75
25:BA:811:U:C5	37:BO:24:GLY:N	2.47	0.75
25:BA:914:C:H3'	25:BA:914:C:H6	1.51	0.75
25:BA:972:G:OP1	25:BA:974(A):C:H3'	1.87	0.75
28:BD:244:ARG:CA	28:BD:252:TRP:NE1	2.50	0.75
28:BD:91:ARG:CB	28:BD:91:ARG:HH11	1.99	0.75
29:BE:8:LYS:HD3	29:BE:9:VAL:N	2.02	0.75
30:BF:176:LEU:HD21	30:BF:180:GLY:O	1.87	0.75
30:BF:24:LEU:H	30:BF:25:PRO:CD	2.00	0.75
36:BN:60:ALA:O	36:BN:83:ALA:HB1	1.85	0.75
25:BA:1667:G:OP1	36:BN:6:THR:HB	1.85	0.75
25:BA:598:G:O4'	37:BO:13:ASN:ND2	2.19	0.75
38:BP:6:ARG:HH21	38:BP:8:LYS:N	1.83	0.75
38:BP:72:LYS:O	38:BP:74:TYR:HE2	1.70	0.75
39:BQ:77:ARG:NH1	39:BQ:77:ARG:HB2	2.02	0.75
46:BX:97:ARG:CZ	46:BX:101:LYS:HG2	2.17	0.75
47:BY:151:HIS:CB	47:BY:168:GLU:HG2	2.16	0.75
47:BY:57:ILE:HG22	47:BY:58:VAL:N	2.00	0.75
25:BA:2336:A:C2	48:BZ:57:PHE:HZ	2.02	0.75
25:BA:1071:G:O4'	25:BA:1089:G:N7	2.20	0.75
34:BL:112:MET:SD	34:BL:115:LEU:HG	2.26	0.75
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.50	0.75
1:AA:130:A:H4'	1:AA:190:G:N3	2.02	0.75
1:AA:570:G:C5'	1:AA:820:U:H1'	2.17	0.75
1:AA:894:G:H2'	1:AA:895:G:H8	1.52	0.75
1:AA:994:A:C8	1:AA:1216:G:H4'	2.22	0.75
2:AC:60:U:H4'	2:AC:61:C:OP2	1.85	0.75
5:AE:24:TRP:CZ3	5:AE:26:PRO:HA	2.21	0.75
6:AF:188:LEU:HD13	6:AF:189:ALA:N	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:58:LEU:HA	7:AG:206:PHE:CE1	2.22	0.75
8:AH:15:ARG:NH2	8:AH:26:PHE:CD2	2.55	0.75
10:AJ:62:PHE:HD2	10:AJ:63:LYS:NZ	1.85	0.75
10:AJ:6:ARG:HH11	10:AJ:6:ARG:CA	2.00	0.75
12:AL:65:VAL:HG21	12:AL:77:ILE:HD11	1.68	0.75
14:AN:66:LEU:O	14:AN:69:ALA:HB3	1.87	0.75
15:AO:24:VAL:HG22	15:AO:97:ARG:HG2	1.68	0.75
1:AA:127:G:HO2'	20:AT:2:PRO:N	1.84	0.75
20:AT:43:LEU:C	20:AT:43:LEU:HD13	2.07	0.75
21:AU:34:TYR:HD1	21:AU:35:ARG:HG3	1.47	0.75
23:AW:43:LEU:CD2	23:AW:48:LYS:HB2	2.17	0.75
25:BA:1249:U:O2'	25:BA:1250:G:O4'	2.02	0.75
25:BA:1559:G:C4	25:BA:1559:G:H3'	2.22	0.75
25:BA:1695:G:N2	25:BA:1696:G:C4	2.55	0.75
25:BA:2250:G:H2'	25:BA:2496:C:H5'	1.67	0.75
25:BA:2423:U:H1'	25:BA:2425:A:N3	2.02	0.75
3:AD:76:A:H2'	25:BA:2432:A:C1'	2.17	0.75
25:BA:2557:G:H2'	25:BA:2558:C:C6	2.22	0.75
25:BA:449:A:C2	25:BA:450:G:C4	2.74	0.75
25:BA:475:U:H6	25:BA:509:C:C4	2.05	0.75
25:BA:640:C:C2'	25:BA:641:C:C5'	2.64	0.75
25:BA:742:G:H4'	25:BA:1675:C:O2'	1.86	0.75
25:BA:818:G:O2'	25:BA:819:A:H5''	1.86	0.75
25:BA:980:A:N6	25:BA:1135:C:H4'	2.02	0.75
27:BC:116:THR:HG22	27:BC:149:ILE:HB	1.68	0.75
27:BC:155:GLU:HG3	27:BC:160:ARG:HG2	1.66	0.75
28:BD:184:LYS:N	28:BD:267:SER:OG	2.14	0.75
25:BA:1568:G:C5'	28:BD:60:ARG:O	2.33	0.75
29:BE:12:THR:CG2	29:BE:21:VAL:HB	2.16	0.75
29:BE:64:LYS:HA	29:BE:67:PHE:HB2	1.67	0.75
30:BF:103:LYS:O	30:BF:106:ARG:HG2	1.87	0.75
32:BH:167:GLU:O	32:BH:169:VAL:N	2.19	0.75
37:BO:96:THR:C	37:BO:102:ARG:HD3	2.08	0.75
37:BO:46:LYS:HB3	37:BO:49:ARG:NE	2.00	0.75
39:BQ:21:TYR:HB3	39:BQ:47:PHE:CE2	2.21	0.75
39:BQ:83:ILE:HG23	39:BQ:86:ARG:NH2	2.01	0.75
42:BT:58:ARG:CZ	42:BT:58:ARG:HB3	2.17	0.75
45:BW:29:TRP:CE3	45:BW:76:ARG:HD2	2.22	0.75
1:AA:750:G:N3	18:AR:23:GLY:O	2.20	0.75
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.21	0.75
1:AA:184:G:H4'	1:AA:224:C:O3'	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:428:G:C2	1:AA:430:A:N6	2.55	0.75
1:AA:799:G:C2	1:AA:800:G:H1'	2.22	0.75
2:AC:57:A:O4'	31:BG:82:LEU:HD22	1.87	0.75
2:AC:5:G:O2'	2:AC:6:G:H5'	1.86	0.75
5:AE:14:GLY:HA3	5:AE:209:ARG:CZ	2.17	0.75
5:AE:41:ILE:N	5:AE:41:ILE:HD12	2.02	0.75
6:AF:193:TYR:HD2	6:AF:193:TYR:N	1.84	0.75
11:AK:64:LYS:CG	11:AK:79:VAL:HG21	2.10	0.75
12:AL:29:ASN:OD1	12:AL:64:THR:HA	1.87	0.75
20:AT:94:ASN:HA	20:AT:104:LYS:HG3	1.69	0.75
21:AU:74:ARG:HG2	21:AU:81:PHE:HB3	1.68	0.75
21:AU:83:GLU:OE1	21:AU:83:GLU:HA	1.85	0.75
49:B1:2:ARG:NE	49:B1:2:ARG:H	1.85	0.75
55:B7:34:TRP:HB3	55:B7:36:LYS:HB2	1.68	0.75
25:BA:1119:C:O2	25:BA:1119:C:H2'	1.85	0.75
25:BA:1143:A:O2'	25:BA:1144:G:C5'	2.35	0.75
25:BA:1331:A:O2'	25:BA:1332:G:H8	1.70	0.75
25:BA:1458:C:H5'	25:BA:1459:G:C8	2.22	0.75
25:BA:1754:C:O2	25:BA:1755:A:H1'	1.87	0.75
25:BA:1786:A:C4'	25:BA:1938:A:H61	2.00	0.75
25:BA:1993:U:C5	25:BA:1994:C:H5	2.04	0.75
25:BA:2228:G:N7	25:BA:2229:C:C5	2.55	0.75
25:BA:2388:A:C8	25:BA:2389:G:N7	2.54	0.75
25:BA:2576:G:H4'	25:BA:2577:A:C5'	2.16	0.75
25:BA:2595:G:N2	25:BA:2597:G:H3'	2.01	0.75
25:BA:2627:G:C6	25:BA:2777:G:O6	2.40	0.75
25:BA:2523:G:H2'	25:BA:2764:A:O2'	1.86	0.75
25:BA:809:G:C5	25:BA:810:U:C5	2.74	0.75
27:BC:7:TYR:CE1	27:BC:10:LEU:HG	2.22	0.75
28:BD:146:GLU:HA	28:BD:154:LYS:HG2	1.69	0.75
28:BD:246:PRO:CD	28:BD:250:TRP:HB2	2.17	0.75
29:BE:5:LEU:O	29:BE:195:LEU:HD22	1.86	0.75
29:BE:49:LEU:CD1	29:BE:76:ARG:HG2	2.17	0.75
42:BT:108:GLU:O	42:BT:111:GLU:HG2	1.87	0.75
42:BT:99:ALA:HB2	42:BT:106:PHE:CG	2.22	0.75
43:BU:3:ALA:O	43:BU:12:TYR:CE2	2.39	0.75
33:BK:109:ILE:HG21	33:BK:113:ARG:NH2	2.01	0.75
33:BK:53:ALA:HB1	33:BK:57:ARG:NH2	2.02	0.75
25:BA:846:C:O2'	25:BA:847:U:OP2	2.05	0.75
4:A1:12:A:N3	4:A1:12:A:H3'	2.01	0.75
1:AA:1465:C:O2	1:AA:1465:C:C2'	2.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:276:G:H2'	1:AA:277:C:H5'	1.68	0.74
1:AA:372:C:H42	1:AA:389:A:N6	1.82	0.74
1:AA:403:C:O2'	7:AG:122:ARG:NH1	2.19	0.74
6:AF:78:GLY:HA3	6:AF:82:GLU:OE1	1.87	0.74
6:AF:84:ILE:O	6:AF:101:LEU:HD13	1.87	0.74
11:AK:31:PHE:HZ	11:AK:113:SER:HB2	1.51	0.74
12:AL:17:VAL:HG22	12:AL:63:ILE:HG21	1.67	0.74
15:AO:119:LYS:O	15:AO:120:TYR:HB2	1.85	0.74
20:AT:18:THR:OG1	20:AT:69:LYS:HE2	1.87	0.74
21:AU:29:PHE:CE1	21:AU:39:VAL:HG11	2.22	0.74
22:AV:18:LYS:HG2	22:AV:31:ILE:HG21	1.67	0.74
3:AD:74:C:OP2	51:B3:22:ILE:HD11	1.86	0.74
51:B3:1:MET:C	51:B3:2:LYS:HD2	2.05	0.74
53:B5:31:PRO:O	53:B5:34:LEU:HG	1.86	0.74
25:BA:2287:A:H2	53:B5:37:ARG:HH22	1.34	0.74
25:BA:1023:U:OP2	25:BA:1025:G:C6	2.40	0.74
25:BA:1131:G:OP1	35:BM:79:PRO:HG3	1.87	0.74
25:BA:1204:A:H5'	25:BA:1206:G:OP1	1.87	0.74
25:BA:1201:C:H42	25:BA:1241:A:N6	1.85	0.74
25:BA:15:G:H2'	25:BA:16:G:O5'	1.86	0.74
25:BA:204:A:H4'	25:BA:205:G:H5'	1.68	0.74
25:BA:2331:G:N2	25:BA:2385:C:C5	2.55	0.74
25:BA:2393:A:O2'	25:BA:2394:C:H5'	1.87	0.74
25:BA:2412:A:H2'	25:BA:2413:G:O4'	1.86	0.74
25:BA:740:U:P	25:BA:1784:A:C2	2.80	0.74
26:BB:24:G:O6	26:BB:56:G:H2'	1.87	0.74
28:BD:208:LYS:HG2	28:BD:211:ARG:HG2	1.69	0.74
28:BD:226:MET:CB	28:BD:227:ASN:HD22	1.99	0.74
28:BD:246:PRO:O	28:BD:247:ALA:O	2.05	0.74
28:BD:54:ARG:HD3	28:BD:218:ARG:CB	2.17	0.74
29:BE:114:ALA:HB1	29:BE:118:LYS:CB	2.16	0.74
29:BE:119:ARG:HG3	29:BE:160:TYR:CE1	2.22	0.74
29:BE:27:LEU:HA	29:BE:76:ARG:HH12	1.51	0.74
29:BE:43:GLY:O	29:BE:79:ARG:NH1	2.20	0.74
31:BG:163:ALA:CB	31:BG:172:LEU:HD23	2.15	0.74
31:BG:119:GLY:HA3	31:BG:180:PHE:CD2	2.22	0.74
31:BG:92:VAL:CG1	31:BG:94:LEU:HD22	2.16	0.74
32:BH:22:GLY:O	32:BH:37:VAL:HG22	1.87	0.74
35:BM:69:GLN:HE22	35:BM:87:LEU:HD22	1.51	0.74
36:BN:67:LYS:H	36:BN:67:LYS:HE2	1.52	0.74
37:BO:114:ILE:CG1	37:BO:123:LEU:HB2	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:128:HIS:H	37:BO:130:PHE:HE2	1.33	0.74
39:BQ:56:LYS:O	39:BQ:58:GLY:N	2.20	0.74
26:BB:50:G:H5''	40:BR:61:ASN:CA	2.17	0.74
41:BS:48:ILE:HD13	41:BS:50:ILE:HD11	1.68	0.74
47:BY:9:TYR:HD2	47:BY:14:LYS:HE2	1.50	0.74
33:BK:88:ILE:N	33:BK:88:ILE:HD12	2.02	0.74
34:BL:79:ARG:HG2	34:BL:134:MET:HE3	1.67	0.74
1:AA:1330:U:OP1	16:AP:25:ILE:N	2.19	0.74
1:AA:30:U:H4'	1:AA:31:G:OP2	1.85	0.74
1:AA:416:G:H2'	1:AA:417:C:H6	1.48	0.74
5:AE:132:LYS:H	5:AE:132:LYS:HE2	1.51	0.74
1:AA:1100:C:H2'	5:AE:98:LEU:CD1	2.17	0.74
7:AG:206:PHE:C	7:AG:206:PHE:CD2	2.60	0.74
12:AL:19:LEU:HD22	12:AL:59:PHE:CD2	2.22	0.74
13:AM:9:ARG:O	13:AM:94:VAL:HG13	1.86	0.74
23:AW:49:ALA:HA	23:AW:92:LEU:HD22	1.67	0.74
50:B2:19:GLN:OE1	50:B2:22:ALA:HB3	1.87	0.74
55:B7:30:ARG:HA	55:B7:34:TRP:NE1	2.02	0.74
25:BA:1242:A:N3	25:BA:1242:A:H2'	2.01	0.74
25:BA:1331:A:HO2'	25:BA:1332:G:H8	1.33	0.74
25:BA:1341:U:C4	25:BA:1398:C:H5'	2.20	0.74
25:BA:1492:G:N2	25:BA:1499:C:C4	2.54	0.74
25:BA:1526:G:H3'	25:BA:1526:G:OP2	1.87	0.74
25:BA:1702:G:C2	25:BA:1703:G:C8	2.75	0.74
25:BA:1784:A:C1'	25:BA:1785:A:N7	2.49	0.74
25:BA:1803:A:O3'	28:BD:257:LEU:HD13	1.86	0.74
25:BA:1905:C:H2'	25:BA:1930:G:C8	2.23	0.74
25:BA:574:C:N4	25:BA:2054:A:H5''	2.02	0.74
25:BA:2439:A:N3	25:BA:2439:A:H2'	2.00	0.74
25:BA:344:G:H2'	25:BA:345:A:H1'	1.69	0.74
25:BA:371:A:O2'	25:BA:372:G:P	2.45	0.74
25:BA:248:G:H5''	25:BA:386:G:H22	1.52	0.74
25:BA:36:G:H4'	25:BA:451:C:C2	2.22	0.74
25:BA:698:C:H5'	25:BA:698:C:H6	1.52	0.74
25:BA:810:U:OP1	25:BA:1253:A:N7	2.20	0.74
25:BA:855:G:H21	48:BZ:27:GLU:CB	2.00	0.74
28:BD:201:HIS:CD2	28:BD:202:LYS:HD2	2.23	0.74
28:BD:89:SER:CB	28:BD:202:LYS:HZ1	1.94	0.74
28:BD:7:LYS:HZ2	28:BD:91:ARG:NE	1.85	0.74
29:BE:86:PRO:O	29:BE:87:GLU:HG2	1.85	0.74
30:BF:192:LEU:HD22	30:BF:193:VAL:H	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:36:LYS:HD2	31:BG:37:VAL:N	2.03	0.74
32:BH:155:SER:HA	32:BH:157:TYR:CZ	2.22	0.74
35:BM:35:ARG:O	35:BM:49:GLY:HA2	1.87	0.74
36:BN:13:ASN:HD21	36:BN:52:VAL:HG12	1.52	0.74
25:BA:671:C:H3'	37:BO:38:GLN:HG3	1.67	0.74
38:BP:130:LYS:HG2	38:BP:131:ILE:H	1.51	0.74
39:BQ:73:VAL:HG23	39:BQ:74:LYS:H	1.52	0.74
39:BQ:58:GLY:HA2	39:BQ:80:PHE:CE2	2.21	0.74
39:BQ:88:ARG:HH11	39:BQ:88:ARG:CB	1.91	0.74
41:BS:28:VAL:HG12	41:BS:29:ARG:O	1.86	0.74
25:BA:29:U:H4'	42:BT:11:ARG:NH2	2.01	0.74
25:BA:142:G:C4'	45:BW:37:THR:HG1	1.98	0.74
46:BX:13:VAL:CB	46:BX:73:ARG:HE	2.00	0.74
34:BL:21:PRO:HG2	34:BL:22:PRO:HD3	1.69	0.74
34:BL:24:GLY:HA2	34:BL:34:ILE:CG2	2.17	0.74
1:AA:91:C:O2'	1:AA:92:G:H5'	1.87	0.74
1:AA:1067:A:O2'	1:AA:1068:G:P	2.45	0.74
1:AA:319:G:O2'	1:AA:320:C:H5'	1.88	0.74
1:AA:862:C:H2'	1:AA:863:U:H6	1.52	0.74
1:AA:970:C:H5''	1:AA:971:G:OP1	1.87	0.74
5:AE:32:ILE:HD11	5:AE:40:HIS:HD2	1.50	0.74
7:AG:198:VAL:HG23	7:AG:199:ASN:H	1.52	0.74
8:AH:43:LEU:HB3	8:AH:136:MET:SD	2.27	0.74
13:AM:60:ARG:H	13:AM:60:ARG:HD3	1.52	0.74
15:AO:35:GLY:O	15:AO:82:VAL:HG13	1.86	0.74
19:AS:1:MET:HB3	19:AS:3:LYS:HZ1	1.51	0.74
20:AT:27:PHE:O	20:AT:36:ILE:HD13	1.87	0.74
20:AT:40:LYS:HB2	20:AT:40:LYS:NZ	2.01	0.74
50:B2:26:LEU:HG	50:B2:35:ARG:NH1	2.03	0.74
52:B4:55:ARG:O	52:B4:56:LYS:HG2	1.87	0.74
25:BA:1419:A:OP2	25:BA:1419:A:O4'	2.05	0.74
25:BA:1518:C:C2'	25:BA:1519:G:H4'	2.17	0.74
25:BA:1527:G:H3'	25:BA:1527:G:C8	2.21	0.74
25:BA:1605:C:H2'	25:BA:1606:G:O4'	1.88	0.74
25:BA:1706:U:O2'	25:BA:1707:G:P	2.44	0.74
25:BA:1951:U:O2	25:BA:1951:U:C2'	2.33	0.74
25:BA:237:C:H2'	25:BA:238:C:H6	1.52	0.74
25:BA:2876:G:H4'	41:BS:1:MET:H2	1.51	0.74
25:BA:41:C:O2'	25:BA:43:G:H5'	1.87	0.74
25:BA:35:G:C4	25:BA:454:A:C2	2.75	0.74
25:BA:970:C:H2'	25:BA:971:C:C6	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:99:U:C5'	25:BA:101:G:H5'	2.16	0.74
27:BC:56:GLN:O	27:BC:58:VAL:HG22	1.87	0.74
28:BD:109:ASP:N	28:BD:195:ALA:O	2.19	0.74
29:BE:109:LYS:CG	29:BE:191:PRO:HG3	2.16	0.74
29:BE:46:ALA:CB	29:BE:85:ASN:HD21	1.99	0.74
31:BG:1:MET:HB3	31:BG:2:PRO:HD2	1.69	0.74
31:BG:36:LYS:HZ1	31:BG:38:VAL:N	1.85	0.74
35:BM:97:ARG:O	35:BM:100:GLU:CB	2.35	0.74
35:BM:15:LEU:HD23	35:BM:15:LEU:N	2.02	0.74
25:BA:2780:G:H1	35:BM:97:ARG:HH12	1.33	0.74
36:BN:10:VAL:N	36:BN:17:ARG:O	2.20	0.74
36:BN:10:VAL:N	36:BN:17:ARG:HG2	1.97	0.74
38:BP:8:LYS:HZ3	38:BP:16:ARG:HH22	1.34	0.74
39:BQ:57:ARG:HH21	39:BQ:62:ALA:H	1.33	0.74
40:BR:67:ARG:HD3	40:BR:103:GLU:OE2	1.86	0.74
40:BR:29:PHE:HE1	40:BR:34:HIS:CE1	2.05	0.74
42:BT:102:GLU:HB3	42:BT:105:VAL:CG2	2.16	0.74
42:BT:57:PHE:HB3	42:BT:61:TRP:NE1	2.03	0.74
46:BX:37:VAL:O	46:BX:39:VAL:HG23	1.87	0.74
46:BX:82:PRO:HG2	46:BX:95:LYS:O	1.88	0.74
25:BA:2331:G:O3'	48:BZ:43:THR:HB	1.85	0.74
4:A1:14:A:H3'	4:A1:14:A:N3	2.02	0.74
1:AA:1143:G:H2'	1:AA:1144:G:H8	1.52	0.74
1:AA:1273:G:H3'	1:AA:1274:G:C8	2.22	0.74
1:AA:20:U:H2'	1:AA:21:G:O4'	1.86	0.74
1:AA:383:A:H2'	1:AA:384:G:H5'	1.66	0.74
1:AA:482:A:N3	1:AA:482:A:H2'	2.00	0.74
1:AA:516:U:O2	1:AA:533:A:N6	2.20	0.74
1:AA:734:G:OP1	1:AA:734:G:H8	1.70	0.74
1:AA:986:A:H4'	22:AV:55:LYS:CD	2.17	0.74
3:AD:58:A:H2'	3:AD:61:C:N4	2.01	0.74
5:AE:25:ASN:ND2	5:AE:25:ASN:C	2.40	0.74
6:AF:112:SER:OG	6:AF:115:LEU:HD12	1.88	0.74
10:AJ:50:ILE:HD13	10:AJ:58:PRO:HA	1.69	0.74
12:AL:89:ASN:C	12:AL:91:ASP:H	1.89	0.74
16:AP:52:GLU:HA	16:AP:55:ARG:CD	2.17	0.74
16:AP:4:ILE:HG13	16:AP:8:GLU:HB2	1.68	0.74
1:AA:1047:G:C5'	17:AQ:4:LYS:HD3	2.16	0.74
19:AS:6:LEU:HG	19:AS:17:TYR:CD2	2.22	0.74
19:AS:20:VAL:HG13	19:AS:34:GLU:O	1.87	0.74
21:AU:43:PHE:O	21:AU:51:LEU:HD13	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:20:LEU:O	22:AV:22:LEU:N	2.16	0.74
25:BA:2465:C:O3'	56:B8:5:ALA:HB3	1.88	0.74
56:B8:9:ARG:HA	56:B8:34:GLN:HE22	1.52	0.74
25:BA:1152:C:C2'	25:BA:1153:C:H5'	2.18	0.74
25:BA:1472:A:H2'	25:BA:1473:G:C8	2.23	0.74
25:BA:2097:C:H2'	25:BA:2098:U:H5'	1.69	0.74
25:BA:2244:U:H1'	25:BA:2434:A:N7	2.01	0.74
25:BA:243:U:H2'	25:BA:243:U:O2	1.88	0.74
25:BA:2532:G:O5'	25:BA:2532:G:H8	1.70	0.74
25:BA:2647:U:H2'	25:BA:2648:C:C6	2.22	0.74
25:BA:270(P):C:H2'	25:BA:270(Q):C:C6	2.23	0.74
25:BA:728:G:N2	25:BA:763:G:OP1	2.20	0.74
25:BA:865:C:H42	25:BA:909:A:H62	0.77	0.74
27:BC:162:GLU:C	27:BC:163:PHE:HD2	1.91	0.74
27:BC:28:LEU:O	27:BC:32:LEU:HG	1.87	0.74
28:BD:78:LYS:HG2	28:BD:114:GLY:O	1.86	0.74
25:BA:1789:A:H1'	28:BD:222:ARG:HH22	1.50	0.74
25:BA:1971:A:N3	28:BD:240:ALA:N	2.34	0.74
28:BD:76:PRO:HG2	28:BD:98:VAL:CG2	2.18	0.74
29:BE:102:VAL:CG2	29:BE:198:VAL:HG13	2.18	0.74
29:BE:197:ILE:HG22	29:BE:198:VAL:N	2.02	0.74
29:BE:53:PRO:HD2	29:BE:74:PRO:HA	1.68	0.74
30:BF:131:GLY:O	30:BF:133:ASN:N	2.20	0.74
32:BH:127:GLU:HG3	32:BH:130:ARG:HG3	1.68	0.74
25:BA:958:U:C5	38:BP:41:TRP:HZ3	2.04	0.74
38:BP:69:PHE:CD1	38:BP:70:PRO:HD2	2.22	0.74
38:BP:87:LYS:O	38:BP:87:LYS:HG2	1.87	0.74
40:BR:94:TYR:N	40:BR:94:TYR:HD1	1.83	0.74
41:BS:37:GLY:CA	41:BS:42:ILE:O	2.34	0.74
46:BX:22:GLY:HA3	46:BX:73:ARG:CZ	2.16	0.74
47:BY:122:ARG:NH2	47:BY:169:GLU:OE1	2.21	0.74
25:BA:1075:C:O2	25:BA:1075:C:H2'	1.86	0.74
1:AA:137:C:C2'	1:AA:138:G:H5'	2.17	0.74
1:AA:517:G:N2	1:AA:533:A:OP2	2.19	0.74
1:AA:764:C:C3'	1:AA:765:G:C8	2.69	0.74
5:AE:104:ASN:ND2	5:AE:108:ILE:HG12	2.01	0.74
5:AE:80:ILE:HG21	5:AE:211:ILE:HG22	1.70	0.74
8:AH:121:LYS:HZ3	8:AH:122:GLU:N	1.85	0.74
9:AI:1:MET:HB3	9:AI:67:MET:O	1.86	0.74
10:AJ:65:ALA:HB2	10:AJ:124:LEU:HD23	1.69	0.74
11:AK:18:ARG:CA	11:AK:18:ARG:NH1	2.43	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:38:ILE:H	11:AK:38:ILE:HD13	1.51	0.74
19:AS:73:LEU:O	19:AS:73:LEU:HD13	1.87	0.74
49:B1:14:VAL:HG13	49:B1:18:LYS:NZ	2.02	0.74
51:B3:55:ARG:C	51:B3:56:VAL:HG23	2.08	0.74
51:B3:64:GLY:C	51:B3:68:ARG:HH22	1.90	0.74
25:BA:2884:U:O4	52:B4:40:LYS:HE2	1.88	0.74
55:B7:40:GLU:HG2	55:B7:41:ILE:H	1.51	0.74
55:B7:60:LEU:HD23	55:B7:63:PRO:HD2	1.70	0.74
25:BA:1313:U:H2'	25:BA:1314:C:H6	1.53	0.74
25:BA:1322:A:H2'	25:BA:1323:U:O5'	1.86	0.74
25:BA:1445:C:H2'	25:BA:1446:C:C6	2.22	0.74
25:BA:1532:C:O2'	25:BA:1533:C:O4'	2.01	0.74
25:BA:1608:A:H4'	25:BA:1609:A:OP1	1.88	0.74
25:BA:1665:A:H2	25:BA:1666:G:C4	2.06	0.74
25:BA:1776:G:H2'	25:BA:1777:U:O5'	1.87	0.74
25:BA:1935:G:O2'	25:BA:1936:A:OP2	2.05	0.74
25:BA:1992:G:O3'	25:BA:1993:U:C5	2.39	0.74
25:BA:2093:G:H4'	33:BK:25:TYR:CA	2.11	0.74
25:BA:2093:G:N3	25:BA:2198:A:N1	2.35	0.74
25:BA:221:A:H8	25:BA:221:A:H3'	1.50	0.74
25:BA:2226:C:H2'	25:BA:2226:C:O2	1.87	0.74
25:BA:2450:A:C2'	25:BA:2451:A:H5'	2.17	0.74
25:BA:960:A:H2	25:BA:2496:C:H1'	1.50	0.74
25:BA:2718:G:H2'	25:BA:2719:G:C8	2.21	0.74
25:BA:408:G:O2'	25:BA:409:C:H5'	1.85	0.74
25:BA:223:A:C6	25:BA:408:G:O4'	2.41	0.74
25:BA:677:A:O2'	25:BA:678:C:H5'	1.87	0.74
25:BA:907:U:N3	25:BA:908:C:C5	2.55	0.74
25:BA:966:G:H1'	25:BA:2267:A:H62	1.53	0.74
27:BC:66:HIS:NE2	27:BC:184:LYS:HD3	2.03	0.74
28:BD:161:THR:HG23	28:BD:196:VAL:CG2	2.18	0.74
29:BE:133:LYS:HZ3	29:BE:136:ARG:NH2	1.85	0.74
32:BH:7:LEU:O	32:BH:52:VAL:HG13	1.87	0.74
35:BM:18:ALA:N	35:BM:21:LYS:HZ2	1.85	0.74
39:BQ:55:ALA:CB	39:BQ:79:LEU:HD11	2.18	0.74
40:BR:14:VAL:HG12	40:BR:15:ARG:HG2	1.70	0.74
40:BR:77:ALA:HA	40:BR:80:LEU:HB2	1.67	0.74
41:BS:53:ARG:NH2	41:BS:103:ARG:N	2.36	0.74
41:BS:23:ARG:HH12	41:BS:90:GLN:N	1.86	0.74
45:BW:32:PRO:HG3	45:BW:77:LYS:HB3	1.67	0.74
34:BL:8:VAL:HG11	34:BL:27:LEU:HD23	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1002:G:O4'	1:AA:1002:G:OP2	2.05	0.74
1:AA:173:U:H1'	1:AA:197:A:H2	1.48	0.74
1:AA:922:G:H21	1:AA:923:A:H1'	1.53	0.74
5:AE:67:THR:CG2	5:AE:155:LEU:HD11	2.15	0.74
5:AE:25:ASN:ND2	5:AE:27:LYS:H	1.86	0.74
6:AF:191:THR:OG1	6:AF:196:LEU:HD21	1.86	0.74
8:AH:72:GLN:NE2	8:AH:144:THR:HG23	2.02	0.74
9:AI:85:VAL:CG1	9:AI:88:VAL:HG23	2.18	0.74
12:AL:113:LYS:N	12:AL:113:LYS:HD2	2.03	0.74
1:AA:973:G:H1'	13:AM:55:LYS:H	1.52	0.74
13:AM:6:ILE:CG2	13:AM:98:ILE:HG13	2.17	0.74
16:AP:121:LYS:HA	16:AP:121:LYS:HE3	1.69	0.74
18:AR:16:ALA:CB	18:AR:21:ASP:HB3	2.18	0.74
19:AS:26:ARG:HB3	19:AS:30:GLY:HA3	1.69	0.74
21:AU:73:ALA:O	21:AU:79:LEU:HD11	1.87	0.74
21:AU:74:ARG:HB3	21:AU:81:PHE:HD2	1.49	0.74
23:AW:49:ALA:HB3	23:AW:99:LEU:HG	1.68	0.74
51:B3:38:LYS:CD	51:B3:39:CYS:H	2.01	0.74
51:B3:68:ARG:NH1	51:B3:68:ARG:N	2.35	0.74
55:B7:37:SER:O	55:B7:41:ILE:HG13	1.86	0.74
25:BA:1326:U:C6	25:BA:2010:G:N2	2.51	0.74
25:BA:1537:C:C2'	25:BA:1538:G:H5'	2.17	0.74
25:BA:1572:A:OP1	25:BA:1572:A:O4'	2.04	0.74
25:BA:1663:C:C2'	25:BA:1664:A:C8	2.70	0.74
25:BA:1809:A:OP1	25:BA:1809:A:H4'	1.86	0.74
25:BA:205:G:O2'	25:BA:206:U:P	2.44	0.74
25:BA:2093:G:H1'	33:BK:29:TYR:CE2	2.22	0.74
25:BA:227:A:N6	25:BA:2407:G:H8	1.85	0.74
25:BA:234:C:H42	25:BA:430:G:N2	1.86	0.74
25:BA:2458:G:O2'	25:BA:2459:A:C5'	2.36	0.74
25:BA:269:U:O2	25:BA:269:U:H2'	1.85	0.74
25:BA:2771:C:H2'	25:BA:2772:C:H6	1.50	0.74
25:BA:451:C:H5	25:BA:453:C:H5'	1.52	0.74
25:BA:549:G:H2'	25:BA:550:G:H8	1.52	0.74
25:BA:752:A:N6	25:BA:1781:C:C1'	2.50	0.74
25:BA:815:C:H2'	25:BA:816:C:H5'	1.68	0.74
25:BA:942:G:O3'	37:BO:32:THR:HG22	1.87	0.74
27:BC:175:VAL:C	27:BC:188:ASN:HD22	1.90	0.74
27:BC:59:ARG:HB2	27:BC:164:ARG:HA	1.70	0.74
28:BD:246:PRO:HG3	28:BD:252:TRP:CE3	2.23	0.74
30:BF:103:LYS:HA	30:BF:106:ARG:HG2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:103:LYS:HG3	30:BF:106:ARG:NH1	2.03	0.74
30:BF:38:ARG:HA	30:BF:41:LEU:HD23	1.68	0.74
25:BA:2310:A:C2	31:BG:83:ARG:NH2	2.56	0.74
35:BM:51:PHE:CZ	35:BM:119:ARG:NE	2.55	0.74
36:BN:63:VAL:O	36:BN:64:ARG:CB	2.35	0.74
25:BA:2685:G:H4'	36:BN:66:LYS:HE3	1.69	0.74
37:BO:23:PRO:HG3	37:BO:30:THR:CG2	2.13	0.74
38:BP:9:TYR:HD2	38:BP:9:TYR:H	1.28	0.74
39:BQ:12:ARG:CZ	39:BQ:16:HIS:HB3	2.16	0.74
39:BQ:50:HIS:ND1	39:BQ:50:HIS:O	2.21	0.74
40:BR:14:VAL:HG12	40:BR:15:ARG:H	1.49	0.74
45:BW:64:LYS:O	45:BW:70:LEU:HG	1.86	0.74
25:BA:1093:G:H21	25:BA:1098:A:N6	1.85	0.74
25:BA:846:C:H1'	25:BA:847:U:C4	2.22	0.74
1:AA:209:U:H5''	1:AA:210:U:OP1	1.87	0.74
1:AA:819:A:C2	1:AA:1529:G:O6	2.40	0.74
1:AA:501:C:H2'	1:AA:502:G:H8	1.53	0.74
1:AA:818:G:C2'	1:AA:819:A:H5''	2.17	0.74
6:AF:156:ARG:HH12	6:AF:161:GLU:HA	1.52	0.74
9:AI:76:ALA:O	9:AI:80:ARG:HG3	1.88	0.74
10:AJ:71:PRO:HG2	10:AJ:91:VAL:HG11	1.69	0.74
18:AR:33:THR:HG23	18:AR:87:ILE:HD11	1.69	0.74
51:B3:41:PRO:C	51:B3:58:ARG:NH1	2.41	0.74
25:BA:1263:U:C4'	52:B4:10:LYS:HG3	2.11	0.74
25:BA:1457:A:HO2'	25:BA:1459:G:H8	1.36	0.74
25:BA:2210:G:H4'	25:BA:2211:G:C5'	2.17	0.74
25:BA:2286:A:H4'	25:BA:2287:A:H1'	1.68	0.74
25:BA:2571:C:O2'	29:BE:146:THR:HG23	1.87	0.74
25:BA:609:A:C5	25:BA:609(A):G:O6	2.40	0.74
25:BA:625:G:H1	37:BO:100:LEU:HB3	1.53	0.74
25:BA:744:G:H2'	25:BA:745:G:N7	2.01	0.74
27:BC:93:TYR:CE1	27:BC:109:ASP:HB3	2.23	0.74
29:BE:196:VAL:HG12	29:BE:197:ILE:N	2.02	0.74
30:BF:181:LEU:O	30:BF:182:ASN:HB3	1.88	0.74
30:BF:203:GLN:NE2	30:BF:203:GLN:HA	2.02	0.74
31:BG:131:TYR:CE1	31:BG:132:ASN:HA	2.23	0.74
32:BH:94:TYR:HA	32:BH:106:THR:O	1.88	0.74
32:BH:97:ARG:HE	32:BH:99:VAL:CG2	2.01	0.74
33:BK:40:THR:HG22	33:BK:42:SER:H	1.53	0.74
33:BK:7:GLU:N	33:BK:8:PRO:CD	2.49	0.74
36:BN:103:ALA:O	36:BN:104:ARG:C	2.25	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:62:VAL:O	36:BN:63:VAL:HG22	1.88	0.74
37:BO:92:GLU:OE1	37:BO:126:VAL:HG13	1.88	0.74
39:BQ:96:ARG:HG3	39:BQ:98:LEU:HD21	1.68	0.74
41:BS:16:ARG:HH11	41:BS:16:ARG:HG3	1.52	0.74
41:BS:46:GLU:OE1	41:BS:47:GLY:N	2.21	0.74
42:BT:17:ILE:HA	42:BT:20:LEU:CG	2.18	0.74
43:BU:62:LEU:HD13	43:BU:98:GLU:HA	1.70	0.74
44:BV:14:PRO:O	44:BV:17:VAL:HG22	1.88	0.74
25:BA:1067:A:N7	25:BA:1068:G:N7	2.35	0.74
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.51	0.74
1:AA:1302:U:O2'	1:AA:1303:C:H5'	1.87	0.74
1:AA:1327:C:H5''	24:AX:20:LYS:CE	2.18	0.74
1:AA:815:A:H2	1:AA:1527:C:O2	1.71	0.74
1:AA:889:A:H4'	1:AA:890:G:H4'	1.70	0.74
3:AD:3:C:H2'	3:AD:4:G:C8	2.22	0.74
5:AE:162:ILE:HD13	5:AE:183:PRO:O	1.88	0.74
5:AE:15:VAL:CG1	5:AE:209:ARG:HB3	2.06	0.74
5:AE:223:ILE:CG2	5:AE:229:VAL:HA	2.17	0.74
5:AE:61:LEU:HA	5:AE:64:ARG:NH1	2.02	0.74
10:AJ:155:ARG:HD3	10:AJ:156:TRP:N	2.03	0.74
10:AJ:52:GLU:OE1	10:AJ:53:LYS:HG2	1.88	0.74
11:AK:114:THR:OG1	11:AK:129:VAL:HG11	1.88	0.74
13:AM:44:VAL:HG11	13:AM:46:ARG:HE	1.51	0.74
19:AS:56:ALA:O	19:AS:60:LEU:HG	1.86	0.74
22:AV:13:ASP:HA	22:AV:16:LEU:HB2	1.70	0.74
25:BA:594:U:OP1	55:B7:61:LEU:HD13	1.87	0.74
25:BA:1009:A:H2'	25:BA:1009:A:N3	2.01	0.74
25:BA:1664:A:N6	25:BA:1992:G:OP1	2.21	0.74
25:BA:2361:A:H3'	25:BA:2362:G:H8	1.52	0.74
25:BA:2549:G:C3'	25:BA:2550:G:H5''	2.18	0.74
25:BA:2596:U:H2'	28:BD:242:ARG:NH2	2.03	0.74
25:BA:467:G:O2'	25:BA:468:G:H5'	1.87	0.74
25:BA:27:G:C2	25:BA:512:G:C2'	2.70	0.74
25:BA:640:C:C2'	25:BA:641:C:H5''	2.18	0.74
25:BA:655:A:O3'	25:BA:656:G:O4'	2.06	0.74
25:BA:72:U:O2'	25:BA:73:A:OP1	2.06	0.74
25:BA:777:A:O2'	25:BA:778:G:H5'	1.87	0.74
25:BA:911:A:C2	38:BP:13:GLN:HG3	2.19	0.74
25:BA:979:G:H3'	25:BA:980:A:H5'	1.68	0.74
26:BB:41:U:O5'	26:BB:42:C:H5'	1.88	0.74
27:BC:100:ILE:HG23	27:BC:127:LEU:HG	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1789:A:C4'	28:BD:222:ARG:CZ	2.66	0.74
29:BE:141:ILE:HD13	29:BE:150:VAL:HG22	1.68	0.74
29:BE:169:ASN:ND2	29:BE:170:LEU:N	2.35	0.74
29:BE:13:ARG:NE	29:BE:20:ALA:C	2.41	0.74
25:BA:2787:C:H5''	29:BE:64:LYS:HG3	1.69	0.74
30:BF:43:LYS:HG3	30:BF:98:SER:HA	1.69	0.74
33:BK:39:ALA:O	33:BK:43:ASN:CB	2.33	0.74
36:BN:18:LYS:N	36:BN:45:GLU:HG3	2.03	0.74
38:BP:83:MET:H	38:BP:83:MET:HE3	1.53	0.74
39:BQ:79:LEU:HD23	39:BQ:80:PHE:CA	2.17	0.74
43:BU:73:SER:HB2	43:BU:75:PHE:CZ	2.23	0.74
46:BX:84:ARG:HD3	46:BX:84:ARG:O	1.86	0.74
33:BK:101:LEU:HG	33:BK:102:SER:N	2.01	0.74
33:BK:87:LYS:CB	33:BK:121:LYS:HB2	2.16	0.74
33:BK:114:LEU:CD2	33:BK:130:TYR:HB3	2.17	0.74
52:B4:30:LEU:HD23	52:B4:39:MET:CB	2.16	0.74
1:AA:174:C:N4	1:AA:175:C:H41	1.86	0.74
1:AA:517:G:H22	1:AA:533:A:P	2.10	0.74
1:AA:769:G:O2'	1:AA:770:C:H5'	1.87	0.74
3:AD:76:A:C2'	25:BA:2432:A:O2'	2.35	0.74
6:AF:64:VAL:HB	6:AF:99:VAL:CG1	2.18	0.74
8:AH:74:GLY:O	8:AH:115:VAL:HG12	1.88	0.74
9:AI:68:PRO:HB2	9:AI:71:ARG:HG3	1.67	0.74
16:AP:16:ASP:CA	16:AP:19:LEU:HG	2.08	0.74
1:AA:1308:U:OP2	16:AP:99:ARG:HG3	1.88	0.74
20:AT:7:THR:HG23	20:AT:8:GLY:N	2.03	0.74
21:AU:87:ARG:O	21:AU:88:LYS:C	2.26	0.74
22:AV:15:LEU:HD13	22:AV:71:LEU:HD11	1.69	0.74
23:AW:103:GLY:O	23:AW:104:LEU:HD12	1.87	0.74
23:AW:88:VAL:HG12	23:AW:92:LEU:HD12	1.69	0.74
53:B5:40:CYS:HA	53:B5:46:HIS:O	1.87	0.74
25:BA:458:G:H2'	54:B6:40:TRP:CD1	2.23	0.74
25:BA:1201:C:O2'	25:BA:1202:C:H5'	1.87	0.74
25:BA:1303:G:N7	25:BA:1304:C:N4	2.35	0.74
25:BA:1572:A:OP1	25:BA:1572:A:H8	1.70	0.74
25:BA:1735:C:C2	25:BA:1741:C:C5	2.75	0.74
25:BA:2147:G:C6	25:BA:2148:G:H1'	2.23	0.74
25:BA:239:U:H2'	25:BA:240:G:C8	2.22	0.74
25:BA:2505:G:N7	25:BA:2576:G:H2'	2.02	0.74
25:BA:252:G:O2'	25:BA:253:C:H5'	1.88	0.74
25:BA:495:G:N2	25:BA:496:G:H1'	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:687:C:O5'	25:BA:688:U:OP2	2.05	0.74
25:BA:979:G:C8	25:BA:980:A:H5''	2.23	0.74
28:BD:154:LYS:O	28:BD:155:LEU:CB	2.35	0.74
28:BD:54:ARG:HD3	28:BD:218:ARG:HB3	1.69	0.74
25:BA:1007:C:H4'	35:BM:108:PRO:HG3	1.69	0.74
36:BN:102:VAL:HG12	36:BN:102:VAL:O	1.86	0.74
38:BP:59:ARG:CZ	38:BP:62:GLY:H	1.99	0.74
41:BS:17:THR:C	41:BS:19:LEU:H	1.91	0.74
42:BT:17:ILE:HA	42:BT:20:LEU:CD1	2.18	0.74
42:BT:33:ARG:NH1	42:BT:33:ARG:HB2	2.03	0.74
43:BU:24:LYS:O	43:BU:26:ASP:N	2.20	0.74
43:BU:78:LYS:HA	43:BU:83:ARG:O	1.87	0.74
45:BW:92:LEU:N	45:BW:92:LEU:HD12	2.01	0.74
46:BX:45:VAL:HA	46:BX:57:GLN:CD	2.07	0.74
46:BX:75:ILE:H	46:BX:100:ALA:HB1	1.53	0.74
47:BY:9:TYR:O	47:BY:14:LYS:HG2	1.87	0.74
27:BC:207:THR:HG22	27:BC:210:ARG:HG2	1.69	0.74
1:AA:1226:C:O2'	1:AA:1227:A:OP1	2.06	0.74
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.53	0.74
1:AA:351:G:H4'	1:AA:352:C:OP1	1.86	0.74
1:AA:403:C:H2'	1:AA:404:U:C6	2.23	0.74
1:AA:731:G:OP1	1:AA:766:A:H1'	1.87	0.74
1:AA:663:A:H5'	1:AA:836:G:OP1	1.88	0.74
1:AA:572:A:HO2'	1:AA:916:G:HO2'	1.34	0.74
1:AA:981:U:H2'	1:AA:982:U:C5	2.23	0.74
6:AF:59:ARG:NH2	6:AF:64:VAL:HA	2.03	0.74
8:AH:109:ILE:CG2	8:AH:110:LEU:H	2.01	0.74
8:AH:11:ILE:HG22	8:AH:12:LEU:H	1.53	0.74
10:AJ:54:THR:OG1	10:AJ:56:GLN:HG2	1.87	0.74
11:AK:25:ASP:CG	11:AK:60:ARG:HB2	2.08	0.74
15:AO:59:ARG:HD3	15:AO:63:GLY:HA2	1.68	0.74
16:AP:96:LEU:O	16:AP:98:VAL:HG23	1.87	0.74
18:AR:24:SER:H	18:AR:27:VAL:HG23	1.53	0.74
23:AW:53:LEU:O	23:AW:57:ARG:HG3	1.87	0.74
52:B4:45:VAL:HB	52:B4:50:GLY:HA2	1.70	0.74
52:B4:51:TYR:CD1	52:B4:55:ARG:HD3	2.22	0.74
25:BA:138:G:H2'	25:BA:139:G:C8	2.23	0.74
25:BA:138:G:H2'	25:BA:139:G:N7	2.03	0.74
25:BA:1523:U:C2	25:BA:1524:G:C8	2.76	0.74
25:BA:1555:G:H2'	25:BA:1556:C:C6	2.22	0.74
25:BA:1653:G:O6	39:BQ:11:ASN:ND2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1675:C:O2'	25:BA:1676:A:H5'	1.88	0.74
25:BA:1697:G:C5'	25:BA:1698:A:C5'	2.64	0.74
25:BA:1944:U:O4'	25:BA:1955:U:H1'	1.88	0.74
25:BA:1944:U:O2'	25:BA:1955:U:O2'	2.06	0.74
25:BA:2246:G:N3	25:BA:2247:A:C8	2.56	0.74
25:BA:270(B):A:H4'	25:BA:270(C):C:C6	2.23	0.74
25:BA:614:U:C3'	25:BA:615:G:H4'	2.09	0.74
25:BA:663:G:OP1	37:BO:18:ARG:O	2.06	0.74
27:BC:110:PHE:CD1	27:BC:113:VAL:HG22	2.23	0.74
29:BE:50:GLY:H	29:BE:76:ARG:HG3	1.52	0.74
30:BF:118:ALA:CA	30:BF:122:LYS:HB2	2.17	0.74
35:BM:120:LEU:HD11	35:BM:122:VAL:CG1	2.17	0.74
36:BN:15:GLY:H	36:BN:52:VAL:HG11	1.53	0.74
38:BP:6:ARG:CB	38:BP:44:ALA:HB1	2.18	0.74
41:BS:64:ARG:NH2	41:BS:77:PRO:HB2	2.02	0.74
41:BS:30:VAL:CG2	41:BS:89:VAL:O	2.31	0.74
42:BT:112:ARG:O	42:BT:115:ALA:HB3	1.88	0.74
44:BV:1:MET:O	44:BV:2:GLU:HB2	1.86	0.74
44:BV:33:ARG:HD3	44:BV:37:ARG:HE	1.51	0.74
45:BW:50:LYS:HG3	45:BW:84:ALA:HB3	1.70	0.74
47:BY:77:ASP:HB3	47:BY:81:ARG:O	1.87	0.74
34:BL:105:LEU:O	34:BL:108:ALA:HB3	1.87	0.74
1:AA:1308:U:H3'	16:AP:99:ARG:NH2	2.03	0.73
1:AA:1480:G:H2'	1:AA:1481:U:C5'	2.18	0.73
1:AA:158:G:N2	1:AA:164:U:H1'	2.03	0.73
1:AA:177:C:N3	1:AA:178:C:C5	2.56	0.73
1:AA:267:C:C4	1:AA:268:C:N4	2.56	0.73
1:AA:404:U:O2	1:AA:405:U:H5	1.71	0.73
1:AA:47:C:H4'	1:AA:48:C:H5"	1.70	0.73
6:AF:94:LEU:O	6:AF:95:THR:HG23	1.87	0.73
9:AI:75:LEU:HD13	9:AI:79:LEU:HD21	1.70	0.73
18:AR:29:VAL:CG1	18:AR:81:LEU:HD21	2.12	0.73
19:AS:14:ASN:HB2	19:AS:42:ARG:NH2	1.99	0.73
19:AS:73:LEU:O	19:AS:76:GLN:HB3	1.88	0.73
20:AT:8:GLY:O	20:AT:56:VAL:HA	1.88	0.73
20:AT:78:GLU:CG	20:AT:81:ARG:HB2	2.10	0.73
21:AU:63:GLN:O	21:AU:66:LEU:HG	1.87	0.73
49:B1:63:ARG:NH2	49:B1:63:ARG:HB3	2.02	0.73
50:B2:40:THR:HB	50:B2:43:ILE:HG12	1.67	0.73
55:B7:23:VAL:CG2	55:B7:48:PHE:HB2	2.17	0.73
55:B7:5:LYS:HG2	55:B7:7:HIS:HD2	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1698:A:O2'	25:BA:1699:G:H3'	1.87	0.73
25:BA:1783:A:C5'	25:BA:1784:A:OP1	2.36	0.73
25:BA:2458:G:N7	25:BA:2490:G:C5	2.56	0.73
25:BA:2468:G:C8	25:BA:2476:A:N1	2.55	0.73
25:BA:2712:U:H3'	25:BA:2714:G:OP2	1.88	0.73
25:BA:458:G:OP1	54:B6:39:ARG:NH1	2.20	0.73
25:BA:625:G:C2	25:BA:626:U:O4'	2.41	0.73
25:BA:652:C:H6	25:BA:652:C:O5'	1.71	0.73
25:BA:707:G:H2'	25:BA:708:C:C6	2.23	0.73
27:BC:175:VAL:HA	27:BC:188:ASN:ND2	2.02	0.73
37:BO:72:PRO:CB	37:BO:111:ARG:HB3	2.17	0.73
38:BP:67:ARG:CB	38:BP:103:MET:HA	2.18	0.73
40:BR:17:ARG:CZ	40:BR:89:ARG:HB2	2.18	0.73
48:BZ:21:LEU:CG	48:BZ:39:ARG:O	2.32	0.73
1:AA:101:A:O2'	1:AA:102:G:H5'	1.88	0.73
1:AA:1192:C:C6	1:AA:1192:C:H3'	2.23	0.73
1:AA:1202:G:H21	1:AA:1203:C:C1'	2.00	0.73
1:AA:163:C:C2	1:AA:164:U:C6	2.76	0.73
1:AA:163:C:H2'	1:AA:164:U:O4'	1.88	0.73
1:AA:451:A:H61	1:AA:480:U:H2'	1.52	0.73
1:AA:576:G:C8	1:AA:881:G:H1'	2.23	0.73
1:AA:770:C:H1'	1:AA:900:A:H2	1.51	0.73
1:AA:792:A:C2	1:AA:794:A:N1	2.56	0.73
2:AC:21:A:C6	2:AC:46:G:N1	2.56	0.73
5:AE:226:ARG:HG2	5:AE:227:GLY:N	2.03	0.73
7:AG:148:VAL:CG1	7:AG:158:ILE:HD12	2.18	0.73
7:AG:15:GLU:HB3	7:AG:19:LEU:HD11	1.70	0.73
7:AG:60:GLU:CG	7:AG:203:VAL:HG23	2.12	0.73
8:AH:57:LYS:HG2	8:AH:61:TYR:HE2	1.52	0.73
10:AJ:45:ASP:HA	10:AJ:48:LYS:HZ3	1.53	0.73
11:AK:82:HIS:O	11:AK:137:VAL:HA	1.88	0.73
16:AP:13:LYS:HA	16:AP:44:ARG:NH2	2.01	0.73
21:AU:66:LEU:O	21:AU:70:ILE:HG13	1.88	0.73
22:AV:63:THR:HB	22:AV:66:MET:SD	2.28	0.73
23:AW:42:GLN:HE21	23:AW:42:GLN:C	1.90	0.73
51:B3:38:LYS:CE	51:B3:40:HIS:HB2	2.18	0.73
52:B4:18:ALA:O	52:B4:21:SER:HB2	1.88	0.73
55:B7:30:ARG:NH2	55:B7:44:LYS:HB2	2.03	0.73
25:BA:1026:U:H2'	25:BA:1027:A:H5'	1.70	0.73
25:BA:1260:G:O2'	25:BA:1261:C:H5'	1.88	0.73
25:BA:1313:U:H6	25:BA:1313:U:O5'	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1471:A:H2'	25:BA:1472:A:O4'	1.88	0.73
25:BA:1619:G:C2'	25:BA:1620:G:H5'	2.18	0.73
25:BA:1965:C:H2'	25:BA:1966:A:C8	2.22	0.73
25:BA:1668:A:C2	25:BA:1993:U:O2	2.40	0.73
25:BA:2052:G:C4	25:BA:2053:G:C8	2.75	0.73
25:BA:2119:A:C2	25:BA:2170:A:H2'	2.23	0.73
25:BA:247:G:H22	55:B7:8:LYS:HE3	1.51	0.73
25:BA:2746:U:C4	25:BA:2756:U:O4	2.41	0.73
25:BA:477:A:C2'	25:BA:478:A:C8	2.55	0.73
25:BA:532:A:H2	25:BA:2035:G:N2	1.86	0.73
25:BA:573:G:N2	25:BA:2029:G:H21	1.86	0.73
25:BA:641:C:C2'	25:BA:642:G:H5'	2.18	0.73
25:BA:696:G:O2'	25:BA:697:C:H5'	1.87	0.73
25:BA:764:A:C6	25:BA:781:A:C2	2.76	0.73
25:BA:935:C:H2'	25:BA:936:C:C6	2.23	0.73
25:BA:986:C:H3'	25:BA:986:C:C6	2.23	0.73
27:BC:123:VAL:CG1	27:BC:138:PRO:HD2	2.17	0.73
28:BD:111:LEU:HB3	28:BD:115:GLN:NE2	2.04	0.73
28:BD:264:LYS:HB2	28:BD:265:PRO:CD	2.18	0.73
28:BD:31:LYS:CD	28:BD:83:GLU:HB3	2.16	0.73
30:BF:169:ASN:ND2	30:BF:173:VAL:HG12	2.02	0.73
25:BA:1204:A:C2	30:BF:187:VAL:O	2.41	0.73
31:BG:103:LEU:HD21	31:BG:176:LEU:HD21	1.69	0.73
31:BG:7:LEU:HD22	31:BG:11:TYR:CZ	2.22	0.73
32:BH:156:ALA:HB1	32:BH:172:LYS:HZ1	1.52	0.73
32:BH:33:LEU:HD13	32:BH:75:ALA:CA	2.08	0.73
32:BH:29:PRO:HD3	32:BH:79:VAL:O	1.88	0.73
35:BM:55:VAL:HG11	35:BM:127:ASP:HA	1.70	0.73
35:BM:6:PRO:HA	35:BM:41:ASP:CG	2.09	0.73
37:BO:45:LEU:HD13	55:B7:59:LYS:NZ	2.02	0.73
37:BO:77:ARG:HG3	37:BO:115:LEU:HB3	1.68	0.73
40:BR:24:LEU:CD2	40:BR:48:LEU:HD11	2.17	0.73
40:BR:26:LEU:HD12	40:BR:88:ASP:OD2	1.88	0.73
41:BS:34:VAL:CG2	41:BS:36:GLU:HG3	2.18	0.73
43:BU:62:LEU:HD22	43:BU:98:GLU:CA	2.16	0.73
44:BV:34:ASN:ND2	44:BV:37:ARG:HH11	1.86	0.73
45:BW:50:LYS:NZ	45:BW:85:PRO:HD2	2.03	0.73
47:BY:137:ILE:O	47:BY:138:GLU:HG3	1.87	0.73
34:BL:54:PRO:HG3	34:BL:73:PRO:CD	2.18	0.73
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.23	0.73
1:AA:121:C:H4'	1:AA:122:G:OP1	1.86	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.23	0.73
1:AA:230:G:N2	1:AA:231:G:H1'	2.03	0.73
1:AA:515:G:H2'	1:AA:516:U:O4'	1.87	0.73
1:AA:522:C:H2'	1:AA:523:A:H8	1.52	0.73
1:AA:992:U:O2'	1:AA:993:G:OP2	2.05	0.73
5:AE:132:LYS:HZ2	5:AE:132:LYS:HB3	1.53	0.73
14:AN:101:SER:O	14:AN:103:LEU:CG	2.36	0.73
15:AO:29:GLY:O	15:AO:30:ALA:O	2.06	0.73
1:AA:1360:A:N6	17:AQ:18:VAL:HG12	2.04	0.73
18:AR:54:ARG:NE	18:AR:58:MET:HE3	2.02	0.73
19:AS:75:ARG:HG3	19:AS:80:PHE:HB3	1.69	0.73
21:AU:22:VAL:HG22	21:AU:55:ARG:NH1	2.04	0.73
25:BA:1789:A:C1'	28:BD:222:ARG:NH2	2.51	0.73
25:BA:2038:G:H8	25:BA:2038:G:O5'	1.70	0.73
25:BA:2059:A:C6	25:BA:2503:A:N7	2.56	0.73
25:BA:2226:C:O2	25:BA:2227:A:C1'	2.37	0.73
25:BA:2471:C:H2'	25:BA:2472:G:O5'	1.88	0.73
25:BA:2549:G:H2'	25:BA:2550:G:H5''	1.69	0.73
25:BA:2602:A:C2'	48:BZ:2:ALA:HB2	2.19	0.73
25:BA:2696:U:H2'	25:BA:2697:G:H8	1.52	0.73
25:BA:2760:C:O2'	25:BA:2761:G:H5'	1.88	0.73
25:BA:2865:U:C4	25:BA:2866:U:C5	2.76	0.73
25:BA:358:U:O2	25:BA:358:U:H2'	1.88	0.73
25:BA:564:C:H42	25:BA:578:A:N6	1.86	0.73
26:BB:43:C:N3	31:BG:95:ARG:NH2	2.36	0.73
26:BB:65:C:H2'	26:BB:66:A:H5'	1.69	0.73
27:BC:156:ILE:HA	27:BC:160:ARG:HG3	1.68	0.73
27:BC:32:LEU:CB	27:BC:220:PRO:HG2	2.18	0.73
29:BE:91:VAL:O	29:BE:91:VAL:HG22	1.88	0.73
32:BH:149:ARG:HA	32:BH:162:ILE:HD13	1.68	0.73
32:BH:89:ILE:HD12	32:BH:90:LYS:N	2.03	0.73
25:BA:1131:G:N2	35:BM:72:TYR:HE1	1.83	0.73
41:BS:103:ARG:O	41:BS:104:ASN:C	2.25	0.73
41:BS:39:ARG:HG3	41:BS:42:ILE:HD12	1.71	0.73
44:BV:6:ILE:HA	44:BV:103:ILE:O	1.89	0.73
47:BY:23:LYS:HE3	47:BY:38:TYR:CB	2.18	0.73
47:BY:74:VAL:HG22	47:BY:86:VAL:HA	1.70	0.73
25:BA:2278:A:N7	48:BZ:14:ARG:HG3	2.02	0.73
33:BK:87:LYS:HG2	33:BK:122:GLU:N	2.03	0.73
46:BX:88:LYS:HD3	46:BX:89:PHE:N	2.03	0.73
1:AA:971:G:C5	1:AA:1365:G:H5'	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:226:G:N2	1:AA:227:G:H1'	2.02	0.73
1:AA:231:G:H2'	1:AA:232:G:H8	1.51	0.73
2:AC:47:U:C2	2:AC:50:U:OP1	2.41	0.73
3:AD:56:C:H3'	3:AD:57:G:C8	2.23	0.73
6:AF:139:GLN:HA	6:AF:170:GLN:HE22	1.51	0.73
6:AF:189:ALA:HB3	6:AF:196:LEU:N	2.03	0.73
7:AG:61:LYS:HB2	7:AG:203:VAL:HG13	1.69	0.73
8:AH:11:ILE:HG22	8:AH:12:LEU:N	2.03	0.73
11:AK:102:ARG:CZ	11:AK:102:ARG:HB3	2.17	0.73
13:AM:30:SER:OG	13:AM:81:THR:HA	1.88	0.73
16:AP:19:LEU:HD11	16:AP:30:ALA:CB	2.18	0.73
16:AP:72:ALA:O	16:AP:75:ALA:HB3	1.88	0.73
20:AT:43:LEU:HD12	20:AT:69:LYS:HG3	1.70	0.73
23:AW:20:LEU:HA	23:AW:23:ARG:NH1	2.03	0.73
55:B7:56:GLU:OE2	55:B7:56:GLU:N	2.22	0.73
25:BA:1019:U:C2'	25:BA:1020:A:H5'	2.18	0.73
25:BA:1005:C:C5	25:BA:1142(A):A:O3'	2.41	0.73
25:BA:1470:G:H1'	25:BA:1522:G:N2	2.03	0.73
25:BA:1488:G:C3'	25:BA:1489:U:H5'	2.18	0.73
25:BA:1566:A:C2'	25:BA:1567:A:H5'	2.18	0.73
25:BA:1676:A:H2'	25:BA:1677:A:C8	2.23	0.73
25:BA:1779:U:H3'	25:BA:1779:U:C6	2.22	0.73
25:BA:1856:G:H2'	25:BA:1857:G:O4'	1.88	0.73
25:BA:2408:U:H2'	25:BA:2409:G:C8	2.23	0.73
25:BA:2544:G:H5'	25:BA:2645:G:N7	2.03	0.73
25:BA:2611:U:H2'	25:BA:2612:C:O4'	1.88	0.73
25:BA:2781:A:C4	25:BA:2782:G:H1'	2.23	0.73
25:BA:392:C:H2'	25:BA:393:C:C6	2.21	0.73
25:BA:412:A:C2	25:BA:413:C:H1'	2.23	0.73
25:BA:548:A:N6	25:BA:549:G:N2	2.36	0.73
25:BA:627:A:N3	25:BA:628:G:H1'	2.04	0.73
25:BA:673:C:C2'	25:BA:674:G:H5'	2.18	0.73
25:BA:902:C:H2'	25:BA:903:C:H6	1.52	0.73
25:BA:969:U:C2'	25:BA:970:C:O4'	2.37	0.73
27:BC:14:VAL:HG12	27:BC:15:ASP:H	1.53	0.73
35:BM:7:LYS:NZ	35:BM:39:ARG:HH12	1.86	0.73
38:BP:12:GLN:C	38:BP:12:GLN:HE21	1.90	0.73
38:BP:134:ARG:NE	38:BP:137:TYR:N	2.36	0.73
38:BP:75:THR:HG22	38:BP:77:LYS:N	2.02	0.73
42:BT:36:ARG:O	42:BT:39:LEU:HB2	1.87	0.73
43:BU:36:PRO:HB3	43:BU:61:VAL:CG2	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BW:82:GLN:HG2	45:BW:83:VAL:N	2.01	0.73
46:BX:46:LYS:HB2	46:BX:57:GLN:CA	2.19	0.73
47:BY:98:MET:HG3	47:BY:133:ILE:HG21	1.70	0.73
33:BK:79:ILE:N	33:BK:79:ILE:HD12	2.02	0.73
33:BK:93:THR:O	33:BK:96:ASP:N	2.21	0.73
25:BA:1085:A:O2'	25:BA:1086:A:O4'	2.06	0.73
34:BL:26:ALA:O	34:BL:30:HIS:HB3	1.87	0.73
1:AA:1005:A:O2'	1:AA:1037:C:H1'	1.88	0.73
1:AA:87:A:O2'	1:AA:88:C:H5'	1.88	0.73
1:AA:216:G:H2'	1:AA:217:C:C5	2.23	0.73
1:AA:216:G:H2'	1:AA:217:C:C6	2.22	0.73
1:AA:1261:A:N6	1:AA:1274:G:H1'	2.02	0.73
1:AA:1408:A:H2	1:AA:1494:G:HO2'	0.75	0.73
1:AA:1505:G:H5''	1:AA:1506:U:O5'	1.87	0.73
1:AA:130:A:C5	1:AA:264:U:H1'	2.21	0.73
1:AA:329:A:H4'	1:AA:330:C:OP1	1.86	0.73
1:AA:458:C:N4	1:AA:464:G:C6	2.56	0.73
1:AA:733:A:H3'	1:AA:733:A:H8	1.50	0.73
2:AC:58:A:N6	2:AC:61:C:H1'	2.03	0.73
6:AF:87:LEU:HB2	6:AF:101:LEU:HD12	1.71	0.73
6:AF:181:ASN:O	6:AF:204:LEU:HG	1.89	0.73
6:AF:37:GLN:OE1	6:AF:37:GLN:HA	1.88	0.73
15:AO:33:ARG:HG2	15:AO:60:LEU:HG	1.69	0.73
15:AO:54:LYS:CB	15:AO:70:ILE:HD12	2.15	0.73
20:AT:59:ILE:HD11	20:AT:72:ARG:N	2.02	0.73
50:B2:37:LEU:HD12	50:B2:43:ILE:HG22	1.68	0.73
50:B2:8:LEU:HD13	50:B2:31:LEU:HD22	1.69	0.73
51:B3:65:ASP:OD2	51:B3:69:LYS:HE3	1.89	0.73
52:B4:37:LYS:N	52:B4:37:LYS:HD2	2.04	0.73
25:BA:2615:U:N1	52:B4:7:PRO:HA	2.04	0.73
37:BO:58:THR:OG1	55:B7:13:ARG:NH1	2.21	0.73
56:B8:19:ARG:CD	56:B8:22:ARG:HB2	2.17	0.73
25:BA:1184:G:H2'	25:BA:1185:C:H5'	1.71	0.73
25:BA:141:A:C2	25:BA:1596:A:O2'	2.41	0.73
25:BA:1448:G:O3'	25:BA:1543:A:N6	2.21	0.73
25:BA:1544:C:O2'	25:BA:1545:A:H4'	1.88	0.73
25:BA:1912:A:C2	25:BA:1919:A:N3	2.57	0.73
25:BA:184:C:O3'	25:BA:217:G:N2	2.22	0.73
25:BA:2287:A:H2'	25:BA:2288:A:O5'	1.88	0.73
25:BA:2369:A:H2'	25:BA:2370:G:H8	1.52	0.73
25:BA:2582:G:H5'	25:BA:2582:G:C8	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2881:C:H2'	25:BA:2882:A:C8	2.23	0.73
25:BA:414:C:H2'	25:BA:415:A:C8	2.23	0.73
25:BA:469:G:N2	54:B6:40:TRP:CZ2	2.55	0.73
25:BA:534:U:HO2'	42:BT:49:HIS:HE2	1.36	0.73
25:BA:914:C:H3'	25:BA:914:C:C6	2.23	0.73
25:BA:920:G:O2'	25:BA:921:G:H5'	1.89	0.73
26:BB:49:C:OP1	40:BR:96:GLY:HA3	1.88	0.73
28:BD:5:LYS:HE3	28:BD:31:LYS:HZ1	1.53	0.73
29:BE:8:LYS:CA	29:BE:8:LYS:HE2	2.15	0.73
32:BH:128:PRO:O	32:BH:131:VAL:HG12	1.89	0.73
35:BM:35:ARG:HG2	35:BM:38:HIS:HB2	1.71	0.73
36:BN:69:VAL:H	36:BN:104:ARG:NH2	1.87	0.73
37:BO:126:VAL:HB	37:BO:146:VAL:HG23	1.70	0.73
38:BP:88:GLY:O	38:BP:89:ASN:HB2	1.88	0.73
39:BQ:12:ARG:NH1	39:BQ:16:HIS:HB3	2.02	0.73
36:BN:121:VAL:HA	41:BS:70:VAL:HG13	1.69	0.73
25:BA:2020:A:OP2	42:BT:27:LEU:HD13	1.88	0.73
43:BU:4:ILE:HD12	43:BU:44:LYS:HZ1	1.52	0.73
25:BA:1061:U:H5''	25:BA:1070:A:H4'	1.70	0.73
34:BL:41:PHE:CE2	34:BL:57:ILE:HD13	2.24	0.73
32:BH:25:LYS:HD3	32:BH:27:LYS:CD	2.17	0.73
27:BC:9:ALA:O	27:BC:12:GLU:HB2	1.88	0.73
1:AA:1047:G:H5''	17:AQ:4:LYS:CD	2.18	0.73
1:AA:12:U:OP1	4:A1:27:A:N1	2.21	0.73
1:AA:130:A:N7	20:AT:64:PRO:HD2	2.03	0.73
1:AA:1338:G:H21	2:AC:41:C:C1'	1.97	0.73
1:AA:1399:C:C4	1:AA:1502:A:N7	2.56	0.73
1:AA:1408:A:C2	1:AA:1494:G:O2'	2.24	0.73
1:AA:1528:U:O2'	1:AA:1529:G:H3'	1.88	0.73
1:AA:494:U:H2'	1:AA:495:A:C5'	2.18	0.73
1:AA:689:C:C2	1:AA:690:G:C8	2.76	0.73
1:AA:907:A:H2'	1:AA:908:A:C8	2.23	0.73
6:AF:120:VAL:HG21	6:AF:137:ALA:CB	2.18	0.73
7:AG:61:LYS:HE3	7:AG:62:GLN:HA	1.71	0.73
9:AI:20:ALA:O	9:AI:24:GLU:HG3	1.89	0.73
9:AI:22:GLU:O	9:AI:26:ILE:HG13	1.87	0.73
11:AK:12:ARG:HH12	11:AK:27:PRO:HD3	1.50	0.73
16:AP:10:PRO:HG3	16:AP:18:ALA:HB1	1.69	0.73
18:AR:78:TYR:CE2	18:AR:82:ILE:HD11	2.24	0.73
21:AU:67:ALA:HA	21:AU:70:ILE:CD1	2.18	0.73
49:B1:1:MET:N	49:B1:2:ARG:NH1	2.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B5:7:ILE:C	53:B5:9:LEU:H	1.91	0.73
25:BA:1009:A:O4'	42:BT:59:ARG:CZ	2.37	0.73
25:BA:1044:G:N2	25:BA:1111:A:H4'	2.03	0.73
25:BA:113:G:H5'	25:BA:114:U:OP1	1.89	0.73
25:BA:1143:A:C2	25:BA:1144:G:C4	2.76	0.73
25:BA:1352:U:O2'	25:BA:1353:A:H5'	1.89	0.73
25:BA:2296:U:H3'	25:BA:2296:U:H6	1.53	0.73
25:BA:2331:G:H4'	48:BZ:43:THR:N	2.03	0.73
25:BA:411:G:N2	25:BA:2408:U:N3	2.35	0.73
25:BA:51:G:H5'	25:BA:52:A:OP1	1.87	0.73
25:BA:590:A:H2'	25:BA:591:C:O4'	1.88	0.73
25:BA:668:G:C4	25:BA:670:A:N7	2.56	0.73
25:BA:918:A:H2'	26:BB:80:U:O2'	1.88	0.73
25:BA:2619:C:H5''	29:BE:152:LYS:HA	1.69	0.73
29:BE:173:VAL:HG13	29:BE:184:VAL:HA	1.70	0.73
30:BF:9:ILE:HG12	30:BF:124:LEU:HD13	1.69	0.73
31:BG:162:THR:C	31:BG:164:GLU:H	1.92	0.73
32:BH:124:GLU:O	32:BH:126:PRO:HD2	1.89	0.73
32:BH:8:PRO:HA	32:BH:51:ARG:CZ	2.19	0.73
36:BN:27:GLY:O	36:BN:29:ASN:N	2.21	0.73
38:BP:54:MET:HB2	38:BP:64:ILE:HD13	1.71	0.73
38:BP:74:TYR:CZ	38:BP:94:VAL:HG13	2.22	0.73
39:BQ:58:GLY:O	39:BQ:59:ASP:HB3	1.86	0.73
36:BN:122:LEU:CG	41:BS:71:GLY:HA3	2.18	0.73
41:BS:73:GLU:OE1	41:BS:106:SER:CB	2.36	0.73
41:BS:63:VAL:HG12	41:BS:78:LEU:HB2	1.70	0.73
42:BT:13:LYS:O	42:BT:17:ILE:HG12	1.89	0.73
42:BT:80:ILE:O	42:BT:84:LYS:HG2	1.89	0.73
43:BU:27:ALA:O	43:BU:33:VAL:HG21	1.87	0.73
46:BX:12:THR:CG2	46:BX:73:ARG:HG3	2.18	0.73
25:BA:1053:C:H2'	25:BA:1054:A:C8	2.23	0.73
33:BK:19:VAL:HG12	33:BK:20:ASP:H	1.51	0.73
1:AA:1315:U:OP2	22:AV:6:LYS:NZ	2.21	0.73
1:AA:407:G:H5''	7:AG:115:ARG:CD	2.19	0.73
5:AE:144:ARG:HD3	5:AE:148:TYR:CZ	2.23	0.73
5:AE:88:ALA:CB	5:AE:219:VAL:HG13	2.11	0.73
6:AF:3:ASN:CG	6:AF:4:LYS:N	2.41	0.73
10:AJ:3:ARG:O	10:AJ:4:ARG:HG2	1.89	0.73
11:AK:83:ILE:HB	11:AK:137:VAL:HG22	1.71	0.73
12:AL:11:LYS:N	12:AL:104:ARG:HH21	1.86	0.73
14:AN:23:ALA:HB1	14:AN:28:THR:OG1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:24:GLU:OE1	20:AT:24:GLU:N	2.22	0.73
21:AU:47:THR:O	21:AU:49:LYS:HE3	1.88	0.73
22:AV:69:HIS:HB2	22:AV:74:PHE:CZ	2.24	0.73
49:B1:36:ILE:HG12	49:B1:37:GLY:N	2.04	0.73
51:B3:68:ARG:H	51:B3:68:ARG:HH11	1.35	0.73
52:B4:51:TYR:HD1	52:B4:55:ARG:N	1.86	0.73
37:BO:56:SER:CB	55:B7:13:ARG:NE	2.51	0.73
25:BA:1002:G:H2'	25:BA:1003:G:O5'	1.88	0.73
25:BA:126:A:P	54:B6:47:ARG:HH12	2.10	0.73
25:BA:1422:G:C2	25:BA:1423:G:C8	2.76	0.73
25:BA:151:C:H2'	25:BA:152:G:C8	2.24	0.73
25:BA:1685:C:O2'	25:BA:1686:C:C5'	2.37	0.73
25:BA:1791:A:N6	25:BA:1828:G:O2'	2.20	0.73
25:BA:1826:G:C6	25:BA:1827:C:C5	2.77	0.73
25:BA:194:G:H2'	25:BA:195:A:C8	2.24	0.73
25:BA:2016:U:H2'	25:BA:2017:U:O4'	1.89	0.73
25:BA:2348:U:C4	25:BA:2382:G:N2	2.57	0.73
25:BA:2723:C:O2'	39:BQ:2:ARG:CA	2.28	0.73
25:BA:714:U:C5	25:BA:716:A:OP2	2.41	0.73
25:BA:849:A:C2'	25:BA:850:C:H5'	2.18	0.73
25:BA:92:G:H2'	25:BA:93:C:C6	2.23	0.73
28:BD:232:PRO:CG	28:BD:247:ALA:HA	2.18	0.73
28:BD:54:ARG:HB2	28:BD:218:ARG:HD2	1.70	0.73
31:BG:172:LEU:O	31:BG:176:LEU:HB2	1.88	0.73
35:BM:51:PHE:CE1	35:BM:119:ARG:NE	2.56	0.73
35:BM:7:LYS:HZ3	35:BM:39:ARG:HH12	1.34	0.73
36:BN:79:PHE:HB2	41:BS:73:GLU:CB	2.18	0.73
36:BN:11:ALA:HB1	36:BN:98:VAL:HG13	1.69	0.73
37:BO:45:LEU:HD22	55:B7:59:LYS:CG	2.19	0.73
38:BP:81:VAL:CG1	38:BP:82:ARG:H	2.01	0.73
38:BP:98:LYS:N	38:BP:98:LYS:NZ	2.37	0.73
40:BR:62:LYS:O	40:BR:65:VAL:HG22	1.87	0.73
40:BR:73:LEU:CA	40:BR:76:LYS:HD3	2.16	0.73
41:BS:64:ARG:NH1	41:BS:77:PRO:HA	2.03	0.73
42:BT:76:TYR:N	42:BT:76:TYR:CD1	2.54	0.73
43:BU:4:ILE:HD12	43:BU:44:LYS:NZ	2.03	0.73
46:BX:2:ARG:NH2	46:BX:4:LYS:HB2	2.04	0.73
48:BZ:36:ILE:HG13	48:BZ:37:LEU:N	2.04	0.73
38:BP:82:ARG:CD	48:BZ:5:LYS:HD3	2.15	0.73
47:BY:157:LEU:HD21	47:BY:161:VAL:HA	1.71	0.73
25:BA:1071:G:C2'	25:BA:1072:C:H5'	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:748:C:C6	1:AA:748:C:O5'	2.42	0.73
1:AA:1125:U:H5	13:AM:5:ARG:NH2	1.84	0.73
1:AA:1160:G:N7	1:AA:1181:G:N1	2.37	0.73
1:AA:1202:G:H2'	1:AA:1203:C:H6	1.54	0.73
1:AA:520:A:H62	1:AA:529:G:H21	1.36	0.73
1:AA:656:C:O2'	1:AA:657:G:H5'	1.89	0.73
1:AA:690:G:O6	1:AA:691:G:N2	2.21	0.73
1:AA:900:A:H2'	1:AA:901:A:C8	2.23	0.73
3:AD:17:U:H3'	3:AD:18:G:H8	1.52	0.73
3:AD:54:U:OP2	3:AD:55:U:C5	2.42	0.73
5:AE:17:PHE:HA	5:AE:42:ILE:HG22	1.70	0.73
6:AF:11:ARG:HH12	6:AF:15:THR:HG23	1.50	0.73
6:AF:64:VAL:HB	6:AF:99:VAL:HG11	1.70	0.73
7:AG:131:ARG:N	7:AG:131:ARG:HH11	1.85	0.73
7:AG:96:LEU:CD2	7:AG:139:ARG:HH22	2.01	0.73
7:AG:64:LEU:HD13	7:AG:65:ARG:N	2.03	0.73
8:AH:122:GLU:N	8:AH:122:GLU:OE1	2.20	0.73
9:AI:98:LEU:CD2	9:AI:101:ALA:HB2	2.11	0.73
9:AI:95:GLU:OE2	9:AI:96:PRO:HD3	1.88	0.73
1:AA:538:G:H5''	15:AO:114:LYS:HD3	1.71	0.73
21:AU:66:LEU:HD13	21:AU:70:ILE:HD11	1.71	0.73
22:AV:45:VAL:HG13	22:AV:64:GLU:HA	1.70	0.73
49:B1:27:LEU:O	49:B1:30:LEU:HB2	1.89	0.73
53:B5:7:ILE:CG2	53:B5:8:LYS:H	2.00	0.73
54:B6:28:ARG:HA	54:B6:31:LEU:CD1	2.19	0.73
56:B8:10:ILE:N	56:B8:10:ILE:HD12	2.03	0.73
25:BA:1314:C:OP1	25:BA:1332:G:H5'	1.89	0.73
25:BA:1373:A:H2'	25:BA:1374:G:H8	1.52	0.73
25:BA:1656:C:H4'	29:BE:136:ARG:NH2	2.03	0.73
25:BA:1784:A:C8	25:BA:1981:A:N7	2.57	0.73
25:BA:1842:G:H2'	25:BA:1843:C:H6	1.52	0.73
25:BA:1869:G:N3	25:BA:1878:G:O6	2.22	0.73
25:BA:1977:A:C2	25:BA:1978:A:C1'	2.72	0.73
25:BA:2163:C:H2'	25:BA:2164:C:H5'	1.69	0.73
25:BA:2356:C:C2'	25:BA:2357:U:O5'	2.36	0.73
25:BA:2377:A:N3	25:BA:2378:A:N7	2.37	0.73
25:BA:2528:U:H5''	56:B8:31:LYS:HE2	1.70	0.73
25:BA:343:C:O2'	25:BA:344:G:H5'	1.88	0.73
25:BA:52:A:H8	25:BA:52:A:O5'	1.71	0.73
25:BA:673:C:H2'	25:BA:674:G:H5'	1.71	0.73
25:BA:696:G:H2'	25:BA:697:C:H6	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:924:C:H2'	25:BA:925:C:H6	1.54	0.73
25:BA:937:U:H2'	25:BA:938:G:C8	2.22	0.73
27:BC:64:LEU:CD1	27:BC:161:ILE:HG21	2.17	0.73
27:BC:163:PHE:HZ	27:BC:195:ALA:HB3	1.53	0.73
27:BC:89:ALA:HB1	27:BC:154:ARG:HA	1.68	0.73
25:BA:2086:U:OP2	28:BD:260:ARG:NH2	2.21	0.73
29:BE:42:ASP:C	29:BE:44:TYR:H	1.88	0.73
31:BG:56:ALA:CB	31:BG:68:PRO:HG2	2.19	0.73
25:BA:2746:U:C4'	32:BH:139:GLN:HA	2.18	0.73
36:BN:8:LEU:HB3	36:BN:19:ILE:CD1	2.17	0.73
36:BN:11:ALA:HB1	36:BN:97:ARG:HH12	1.51	0.73
37:BO:78:PRO:HG2	37:BO:117:GLU:OE2	1.88	0.73
37:BO:91:PHE:N	37:BO:125:VAL:HG11	2.04	0.73
38:BP:16:ARG:HH12	38:BP:72:LYS:HA	1.54	0.73
44:BV:24:ILE:HD11	44:BV:47:VAL:HG11	1.71	0.73
46:BX:76:CYS:HB2	46:BX:100:ALA:CB	2.19	0.73
47:BY:111:VAL:C	47:BY:113:ALA:H	1.90	0.73
47:BY:145:GLU:O	47:BY:148:ASP:HB2	1.87	0.73
48:BZ:28:GLY:O	48:BZ:66:VAL:HG22	1.88	0.73
25:BA:522:G:H2'	25:BA:523:C:H6	1.53	0.73
1:AA:1134:G:OP2	1:AA:1135:U:H5	1.72	0.73
1:AA:963:G:H5'	1:AA:1200:C:N4	2.04	0.73
1:AA:1316:G:H2'	1:AA:1318:A:OP2	1.87	0.73
1:AA:136:C:H4'	19:AS:65:GLN:HE22	1.53	0.73
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.21	0.73
1:AA:253:U:H2'	1:AA:254:G:C8	2.19	0.73
1:AA:449:C:C2	1:AA:450:G:H1'	2.24	0.73
1:AA:751:U:O2'	1:AA:752:G:H5'	1.88	0.73
5:AE:165:VAL:HG23	5:AE:166:ASP:N	2.04	0.73
6:AF:35:GLU:O	6:AF:39:ILE:HG13	1.88	0.73
6:AF:82:GLU:OE1	6:AF:83:ARG:N	2.22	0.73
7:AG:170:VAL:HG21	7:AG:176:LEU:HB2	1.70	0.73
8:AH:102:ALA:CB	8:AH:120:THR:CG2	2.64	0.73
18:AR:77:ARG:NH1	18:AR:77:ARG:C	2.42	0.73
19:AS:20:VAL:CG1	19:AS:21:VAL:N	2.51	0.73
23:AW:13:LEU:HD12	23:AW:13:LEU:N	2.03	0.73
23:AW:62:LEU:HA	23:AW:65:LYS:HG2	1.71	0.73
50:B2:13:ILE:CG2	50:B2:14:GLY:H	2.02	0.73
51:B3:50:VAL:O	51:B3:51:ASP:CG	2.26	0.73
25:BA:1158:C:H4'	50:B2:32:GLN:CG	2.18	0.73
25:BA:1493:C:O2	25:BA:1493:C:H2'	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1520:U:H2'	25:BA:1521:G:H5''	1.70	0.73
25:BA:1603:A:C6	25:BA:1604:C:N4	2.57	0.73
25:BA:1672:C:O2	25:BA:2582:G:H1'	1.89	0.73
25:BA:1673:U:H2'	25:BA:1674:G:O5'	1.89	0.73
25:BA:1814:G:H2'	25:BA:1815:A:C8	2.24	0.73
25:BA:2085:C:H2'	25:BA:2086:U:O4'	1.89	0.73
25:BA:2309:A:N7	31:BG:80:PHE:CZ	2.57	0.73
25:BA:2325:G:H2'	25:BA:2326:C:H6	1.52	0.73
25:BA:630:G:H1	25:BA:634:C:N4	1.86	0.73
25:BA:917:A:C3'	25:BA:918:A:H5''	2.18	0.73
27:BC:130:ILE:N	27:BC:130:ILE:HD12	2.03	0.73
27:BC:78:ALA:O	27:BC:79:LYS:HG3	1.89	0.73
25:BA:1791:A:OP1	28:BD:213:ARG:HD3	1.87	0.73
28:BD:5:LYS:O	28:BD:27:THR:CG2	2.36	0.73
29:BE:116:VAL:CG2	29:BE:138:PRO:HA	2.18	0.73
29:BE:149:ARG:HH22	35:BM:78:TYR:HE2	1.34	0.73
29:BE:12:THR:HA	29:BE:21:VAL:HG23	1.70	0.73
30:BF:106:ARG:HG3	30:BF:107:LYS:N	2.03	0.73
31:BG:147:ASP:O	31:BG:148:MET:HB2	1.87	0.73
32:BH:120:GLY:CA	32:BH:136:ILE:HG22	2.18	0.73
32:BH:28:GLY:CA	32:BH:79:VAL:HB	2.19	0.73
37:BO:113:LYS:NZ	37:BO:115:LEU:HA	2.04	0.73
25:BA:2415:G:OP1	37:BO:61:ARG:NE	2.21	0.73
25:BA:2278:A:O5'	38:BP:14:ARG:HG3	1.87	0.73
39:BQ:96:ARG:CG	39:BQ:98:LEU:HD21	2.18	0.73
40:BR:74:ALA:CB	40:BR:104:GLY:O	2.36	0.73
44:BV:20:VAL:HG12	44:BV:21:VAL:N	2.02	0.73
45:BW:16:LYS:H	45:BW:16:LYS:HE2	1.52	0.73
45:BW:40:LYS:O	45:BW:44:GLU:HB2	1.89	0.73
46:BX:65:ALA:CB	46:BX:66:PRO:HD3	2.19	0.73
46:BX:81:LYS:HZ3	46:BX:96:ILE:HG12	1.53	0.73
47:BY:10:ARG:H	47:BY:14:LYS:NZ	1.87	0.73
47:BY:4:ARG:NH2	47:BY:88:PHE:CE1	2.56	0.73
48:BZ:50:ASN:CB	48:BZ:81:VAL:HB	2.19	0.73
33:BK:108:THR:C	33:BK:109:ILE:HD12	2.09	0.73
33:BK:88:ILE:H	33:BK:88:ILE:HD12	1.52	0.73
33:BK:93:THR:HG23	33:BK:95:LYS:N	2.02	0.73
34:BL:104:VAL:HG13	34:BL:127:ILE:HG21	1.69	0.73
1:AA:93:U:H2'	1:AA:95:G:C8	2.24	0.73
1:AA:1016:A:H8	1:AA:1016:A:O5'	1.71	0.73
1:AA:12:U:C2'	1:AA:13:U:H5	2.00	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:595:G:C8	1:AA:641:U:C4	2.77	0.73
1:AA:734:G:H2'	1:AA:735:C:C6	2.24	0.73
2:AC:40:C:H2'	2:AC:41:C:H5''	1.69	0.73
2:AC:48:C:H5'	2:AC:49:G:O5'	1.89	0.73
3:AD:34:G:C2	3:AD:35:A:H5''	2.24	0.73
1:AA:1104:G:H4'	5:AE:111:ARG:HH21	1.54	0.73
5:AE:12:GLU:C	5:AE:14:GLY:H	1.93	0.73
6:AF:21:ARG:O	6:AF:58:GLU:HA	1.89	0.73
6:AF:84:ILE:HA	6:AF:87:LEU:HD12	1.71	0.73
14:AN:106:LYS:HG2	14:AN:107:SER:H	1.54	0.73
16:AP:3:ARG:HG3	31:BG:141:PHE:CD1	2.17	0.73
17:AQ:12:ARG:O	17:AQ:14:PRO:N	2.22	0.73
13:AM:50:ILE:HD12	17:AQ:41:ARG:CZ	2.19	0.73
17:AQ:45:ARG:HH11	17:AQ:45:ARG:HG3	1.54	0.73
18:AR:62:GLN:HA	18:AR:65:ARG:CZ	2.19	0.73
25:BA:2432:A:N1	51:B3:30:GLU:HA	2.03	0.73
25:BA:1309:G:C2'	25:BA:1310:G:H5'	2.19	0.73
25:BA:1312:U:H2'	25:BA:1313:U:H6	1.48	0.73
25:BA:1444(A):A:N1	25:BA:1462:C:OP2	2.22	0.73
25:BA:196:A:N3	25:BA:2068:U:H5	1.87	0.73
25:BA:185:U:C2	25:BA:212:G:N2	2.56	0.73
25:BA:2161:C:H2'	25:BA:2162:G:C8	2.18	0.73
25:BA:2271:G:H8	25:BA:2271:G:O5'	1.72	0.73
25:BA:2369:A:H2'	25:BA:2370:G:C8	2.23	0.73
25:BA:2376:A:H2'	25:BA:2377:A:C8	2.23	0.73
25:BA:2444:G:H2'	25:BA:2445:G:C8	2.24	0.73
25:BA:2507:C:H5''	25:BA:2573:C:N4	2.03	0.73
25:BA:2596:U:C2'	28:BD:242:ARG:NH1	2.47	0.73
25:BA:324:A:N1	25:BA:325:G:N3	2.37	0.73
25:BA:574:C:H41	25:BA:2054:A:H5'	1.52	0.73
25:BA:861:A:H2'	25:BA:862:G:C5'	2.12	0.73
25:BA:957:A:N6	25:BA:959:A:C4	2.53	0.73
25:BA:1818:U:H5''	28:BD:158:ALA:HB2	1.70	0.73
30:BF:33:LEU:HD23	30:BF:112:MET:SD	2.28	0.73
31:BG:131:TYR:CZ	31:BG:132:ASN:HA	2.24	0.73
36:BN:122:LEU:H	41:BS:70:VAL:CG1	1.98	0.73
36:BN:122:LEU:OXT	41:BS:74:ARG:NH2	2.22	0.73
36:BN:23:ARG:HG3	36:BN:40:VAL:CG1	2.19	0.73
36:BN:2:ILE:HG21	36:BN:32:TYR:CB	2.18	0.73
36:BN:3:GLN:HB2	36:BN:6:THR:CG2	2.19	0.73
37:BO:58:THR:CG2	37:BO:60:MET:HG2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:112:GLU:CA	38:BP:115:MET:HB2	2.19	0.73
40:BR:8:GLU:O	40:BR:11:LYS:N	2.22	0.73
41:BS:53:ARG:HE	41:BS:53:ARG:HA	1.53	0.73
45:BW:14:SER:O	45:BW:17:ALA:HB3	1.87	0.73
46:BX:60:PHE:CE2	46:BX:62:GLU:HB2	2.23	0.73
48:BZ:12:ASN:HA	48:BZ:14:ARG:CZ	2.18	0.73
1:AA:841:U:H5'	1:AA:842:C:C5	2.23	0.73
1:AA:386:C:C2'	1:AA:387:U:H5'	2.19	0.73
1:AA:1514:C:O2'	1:AA:1515:C:H5'	1.88	0.72
1:AA:186:C:H2'	1:AA:186(A):C:C6	2.24	0.72
1:AA:674:G:H2'	1:AA:675:A:H8	1.52	0.72
1:AA:729:A:N1	1:AA:730:G:C4	2.57	0.72
1:AA:801:U:H2'	1:AA:802:A:H8	1.54	0.72
5:AE:15:VAL:HB	5:AE:210:SER:HB2	1.71	0.72
5:AE:61:LEU:CA	5:AE:64:ARG:NH1	2.52	0.72
6:AF:138:VAL:HG13	6:AF:149:ALA:HB3	1.71	0.72
10:AJ:6:ARG:NH1	10:AJ:6:ARG:HB2	2.04	0.72
11:AK:103:VAL:HG21	11:AK:110:ALA:N	2.04	0.72
13:AM:3:LYS:CE	13:AM:77:PRO:HD3	2.19	0.72
18:AR:70:LEU:C	18:AR:70:LEU:HD12	2.09	0.72
20:AT:33:GLY:O	20:AT:34:LYS:O	2.07	0.72
50:B2:52:HIS:C	50:B2:53:LEU:HD23	2.09	0.72
53:B5:19:ARG:HB2	53:B5:43:CYS:SG	2.28	0.72
55:B7:3:LYS:HZ1	55:B7:59:LYS:HZ3	1.37	0.72
25:BA:1138:G:H21	25:BA:1139:G:H1'	1.53	0.72
25:BA:1174:A:H2'	25:BA:1175:U:C5'	2.19	0.72
25:BA:1178:C:HO2'	25:BA:1179:C:H6	1.35	0.72
25:BA:141:A:C2	25:BA:141(A):C:O4'	2.42	0.72
25:BA:1511:A:C3'	25:BA:1512:G:H5''	2.19	0.72
25:BA:1527:G:H1'	25:BA:1528:A:N3	2.03	0.72
25:BA:1663:C:H42	25:BA:1992:G:H8	1.36	0.72
25:BA:2053:G:H5''	29:BE:144:ARG:HA	1.68	0.72
25:BA:2578:G:N2	25:BA:2579:C:C2	2.57	0.72
25:BA:270(E):G:OP2	25:BA:270(E):G:C8	2.42	0.72
25:BA:2720:U:O4	25:BA:2872:G:C6	2.42	0.72
25:BA:704:G:H1	25:BA:726:G:C1'	2.02	0.72
25:BA:833:U:H2'	25:BA:834:C:C6	2.24	0.72
26:BB:50:G:H2'	26:BB:50:G:N3	2.04	0.72
27:BC:193:ILE:HG22	27:BC:197:GLU:OE1	1.89	0.72
28:BD:147:LEU:HD23	28:BD:154:LYS:HG3	1.70	0.72
28:BD:155:LEU:HD23	28:BD:155:LEU:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:37:LEU:HD13	28:BD:38:LYS:N	2.04	0.72
29:BE:8:LYS:HB3	29:BE:24:THR:CG2	2.19	0.72
30:BF:123:LEU:HB2	30:BF:193:VAL:HG22	1.71	0.72
30:BF:24:LEU:H	30:BF:25:PRO:HD2	1.53	0.72
31:BG:57:ALA:O	31:BG:61:ALA:HB2	1.88	0.72
32:BH:69:ARG:HG3	32:BH:70:THR:H	1.52	0.72
33:BK:5:LEU:HD12	33:BK:17:GLN:HB2	1.71	0.72
25:BA:1006:C:O2'	35:BM:106:MET:HB3	1.89	0.72
35:BM:14:VAL:C	35:BM:15:LEU:HD23	2.09	0.72
37:BO:23:PRO:CG	37:BO:30:THR:HG23	2.12	0.72
25:BA:2393:A:C5'	37:BO:56:SER:N	2.51	0.72
40:BR:89:ARG:CG	40:BR:90:GLY:N	2.40	0.72
36:BN:77:ILE:HG23	41:BS:75:ILE:HD12	1.70	0.72
42:BT:88:ILE:CG1	43:BU:52:VAL:HG22	2.18	0.72
44:BV:18:ARG:HG2	44:BV:18:ARG:NH2	2.00	0.72
46:BX:14:LEU:HD13	46:BX:20:TYR:C	2.09	0.72
47:BY:23:LYS:HE3	47:BY:38:TYR:HB2	1.71	0.72
25:BA:855:G:N2	48:BZ:27:GLU:HB3	2.04	0.72
1:AA:112:G:N2	1:AA:113:G:C4	2.57	0.72
1:AA:1217:C:O2'	1:AA:1218:C:H5'	1.89	0.72
1:AA:1234:C:H5'	1:AA:1364:U:O2'	1.90	0.72
1:AA:1477:C:H2'	1:AA:1478:C:H6	1.53	0.72
1:AA:397:A:N6	1:AA:548:G:C5	2.57	0.72
1:AA:51:A:C6	1:AA:353:A:C2	2.76	0.72
1:AA:600:C:H2'	1:AA:601:C:H6	1.53	0.72
1:AA:683:G:H2'	1:AA:684:A:C8	2.24	0.72
1:AA:707:C:O2'	1:AA:708:C:H5'	1.88	0.72
1:AA:720:C:OP2	1:AA:721:G:H3'	1.90	0.72
5:AE:146:GLN:NE2	5:AE:150:SER:HB2	2.04	0.72
1:AA:7:G:H21	8:AH:121:LYS:CB	2.02	0.72
8:AH:68:GLU:O	8:AH:70:PRO:HD3	1.89	0.72
11:AK:77:GLU:O	11:AK:78:GLN:HB2	1.87	0.72
16:AP:20:THR:HA	16:AP:25:ILE:CG2	2.19	0.72
16:AP:90:LEU:O	16:AP:93:ARG:HB3	1.89	0.72
20:AT:27:PHE:CD1	20:AT:36:ILE:HD11	2.24	0.72
20:AT:5:VAL:HG12	20:AT:6:LEU:N	2.03	0.72
22:AV:36:ARG:O	22:AV:71:LEU:HB2	1.89	0.72
49:B1:22:GLU:OE1	49:B1:22:GLU:N	2.22	0.72
51:B3:59:PHE:HA	51:B3:62:ARG:CD	2.17	0.72
55:B7:12:LYS:HG2	55:B7:13:ARG:HH22	1.52	0.72
55:B7:50:LEU:HA	55:B7:53:PRO:HG3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1047:G:H4'	25:BA:1047:G:OP1	1.89	0.72
25:BA:1160:G:C6	25:BA:1161:C:N4	2.57	0.72
25:BA:1405:U:C2	25:BA:1406:U:C5	2.76	0.72
25:BA:1518:C:C2	25:BA:1519:G:C1'	2.72	0.72
25:BA:1840:G:O2'	25:BA:1841:U:H5'	1.89	0.72
25:BA:1921:G:O2'	25:BA:1922:G:H5'	1.90	0.72
25:BA:1939:U:O2'	25:BA:1940:U:OP1	2.04	0.72
25:BA:2120:G:N2	27:BC:167:LYS:HZ1	1.85	0.72
25:BA:2173:A:H3'	25:BA:2174:C:H6	1.54	0.72
25:BA:2588:G:H8	25:BA:2588:G:O5'	1.72	0.72
25:BA:2832:U:H2'	25:BA:2832:U:O2	1.88	0.72
25:BA:28:A:C2	25:BA:29:U:H1'	2.24	0.72
25:BA:602:G:C8	25:BA:602:G:O5'	2.40	0.72
25:BA:854:G:N2	25:BA:855:G:C4	2.57	0.72
28:BD:183:ARG:HG3	28:BD:268:ARG:HB2	1.72	0.72
28:BD:55:GLY:H	28:BD:219:PRO:HD2	1.54	0.72
30:BF:11:VAL:HG22	30:BF:125:LEU:O	1.89	0.72
30:BF:130:ALA:HB2	30:BF:142:TRP:HE3	1.52	0.72
30:BF:148:LEU:HD22	30:BF:148:LEU:N	2.04	0.72
31:BG:77:ILE:HA	31:BG:83:ARG:HE	1.54	0.72
32:BH:155:SER:HA	32:BH:157:TYR:OH	1.88	0.72
32:BH:33:LEU:HD11	32:BH:74:ASN:ND2	2.03	0.72
33:BK:45:LYS:NZ	33:BK:48:GLU:HB2	2.03	0.72
35:BM:74:ARG:HD2	35:BM:82:LEU:HD21	1.70	0.72
35:BM:74:ARG:HG2	35:BM:74:ARG:HH11	1.53	0.72
35:BM:74:ARG:HD2	35:BM:82:LEU:CD2	2.18	0.72
36:BN:18:LYS:HB3	36:BN:45:GLU:CD	2.10	0.72
37:BO:49:ARG:HG2	37:BO:49:ARG:NH2	1.96	0.72
38:BP:66:ILE:N	38:BP:105:GLU:HG3	2.03	0.72
39:BQ:90:ARG:CB	39:BQ:94:TYR:HE2	2.01	0.72
40:BR:59:LYS:H	40:BR:59:LYS:HD3	1.53	0.72
41:BS:105:LEU:O	41:BS:109:GLU:HG3	1.89	0.72
42:BT:79:PHE:C	42:BT:79:PHE:CD1	2.60	0.72
46:BX:5:MET:HE2	46:BX:28:LYS:HB2	1.71	0.72
46:BX:42:VAL:O	46:BX:61:ILE:HD13	1.88	0.72
34:BL:105:LEU:CD2	34:BL:124:ALA:HB1	2.12	0.72
34:BL:18:THR:CG2	34:BL:38:VAL:HG21	2.19	0.72
34:BL:7:VAL:CG1	34:BL:58:THR:HG21	2.19	0.72
15:AO:18:VAL:O	15:AO:19:ARG:HG3	1.89	0.72
1:AA:105:G:H2'	1:AA:106:C:C5	2.23	0.72
1:AA:1526:G:HO2'	1:AA:1527:C:H5'	1.51	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:693:G:H2'	1:AA:694:A:O4'	1.88	0.72
1:AA:727:G:C8	1:AA:727:G:C3'	2.71	0.72
7:AG:172:PRO:HG3	7:AG:193:ASP:HB2	1.69	0.72
9:AI:75:LEU:O	9:AI:79:LEU:HG	1.88	0.72
12:AL:67:GLY:N	12:AL:73:GLN:NE2	2.36	0.72
14:AN:23:ALA:CB	14:AN:88:GLY:HA3	2.18	0.72
14:AN:23:ALA:HB3	14:AN:88:GLY:HA3	1.71	0.72
14:AN:42:TRP:HE3	14:AN:43:SER:HA	1.54	0.72
14:AN:88:GLY:O	14:AN:91:ARG:N	2.23	0.72
15:AO:27:LEU:HD23	15:AO:33:ARG:HD3	1.72	0.72
50:B2:6:VAL:CG1	50:B2:56:VAL:HA	2.19	0.72
51:B3:56:VAL:O	51:B3:61:ARG:NH2	2.23	0.72
25:BA:179:G:OP1	54:B6:32:LYS:HE3	1.90	0.72
25:BA:592:G:O2'	55:B7:2:PRO:HA	1.88	0.72
55:B7:54:GLU:O	55:B7:58:ILE:HG12	1.90	0.72
25:BA:52:A:N6	25:BA:119:A:H62	1.84	0.72
25:BA:1202:C:C4	25:BA:1203:G:O2'	2.40	0.72
25:BA:1472:A:C2'	25:BA:1473:G:C8	2.72	0.72
25:BA:1492:G:N3	25:BA:1493:C:N4	2.36	0.72
25:BA:1603:A:N1	25:BA:1604:C:N4	2.37	0.72
25:BA:1637:A:H2'	25:BA:1638:C:C6	2.24	0.72
25:BA:1786:A:O2'	25:BA:1938:A:N1	2.23	0.72
25:BA:2061:G:C8	25:BA:2503:A:C2	2.77	0.72
25:BA:192:C:OP1	25:BA:2243:U:OP1	2.06	0.72
25:BA:647:G:H4'	25:BA:2352:A:OP1	1.89	0.72
25:BA:2360:A:N7	25:BA:2361:A:C8	2.57	0.72
25:BA:2543:G:H2'	25:BA:2544:G:C8	2.25	0.72
25:BA:2645:G:H4'	25:BA:2732:G:O2'	1.88	0.72
25:BA:2741:A:H2'	25:BA:2742:C:H6	1.53	0.72
25:BA:547:A:O2'	25:BA:548:A:H5'	1.89	0.72
25:BA:663:G:H4'	37:BO:18:ARG:NE	2.03	0.72
25:BA:824:A:H3'	25:BA:825:C:C5	2.23	0.72
25:BA:945:A:N3	25:BA:2448:A:C2	2.57	0.72
25:BA:953:A:C2'	25:BA:954:G:H5'	2.19	0.72
25:BA:94:G:N2	25:BA:95:G:N3	2.36	0.72
28:BD:119:ALA:HB1	28:BD:130:ALA:O	1.89	0.72
28:BD:77:ALA:CB	28:BD:95:LEU:HD21	2.19	0.72
29:BE:154:LYS:HE3	29:BE:154:LYS:O	1.89	0.72
29:BE:49:LEU:HG	29:BE:74:PRO:CG	2.18	0.72
30:BF:6:VAL:HG12	30:BF:18:ARG:HD3	1.70	0.72
31:BG:8:LYS:HE2	31:BG:103:LEU:HD23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:41:MET:SD	32:BH:64:LEU:HD22	2.30	0.72
35:BM:67:LEU:H	35:BM:87:LEU:HD21	1.54	0.72
36:BN:103:ALA:HA	36:BN:106:LEU:HD23	1.70	0.72
25:BA:1996:C:OP2	36:BN:31:LYS:NZ	2.20	0.72
38:BP:16:ARG:NH2	38:BP:73:PRO:HD3	2.04	0.72
40:BR:89:ARG:NH1	40:BR:91:PRO:CA	2.49	0.72
25:BA:494:G:C4'	44:BV:6:ILE:O	2.34	0.72
25:BA:748:G:OP2	44:BV:89:ALA:HB2	1.90	0.72
47:BY:48:PHE:HD2	47:BY:54:HIS:HE2	1.37	0.72
26:BB:11:C:OP1	48:BZ:75:LEU:HD11	1.88	0.72
34:BL:72:PRO:HG2	34:BL:77:LEU:HG	1.71	0.72
26:BB:89:G:H2'	26:BB:89(A):A:N7	2.04	0.72
1:AA:842:C:H5'	1:AA:848:C:O2	1.90	0.72
1:AA:1394:A:O2'	1:AA:1395:C:OP1	2.07	0.72
1:AA:1404:C:H2'	1:AA:1405:G:H8	1.55	0.72
1:AA:1518:A:O5'	1:AA:1518:A:H8	1.71	0.72
1:AA:819:A:N1	1:AA:1529:G:N7	2.37	0.72
1:AA:174:C:C6	1:AA:175:C:H5	2.06	0.72
1:AA:113:G:H1'	1:AA:354:G:C5'	2.19	0.72
1:AA:49:U:N3	1:AA:364:A:N7	2.37	0.72
1:AA:406:G:N2	1:AA:437:U:O2	2.23	0.72
2:AC:17:C:C4	2:AC:19:G:H8	2.07	0.72
2:AC:9:G:C2	2:AC:46:G:N7	2.58	0.72
5:AE:132:LYS:O	5:AE:135:GLN:HB2	1.90	0.72
1:AA:1190:G:OP2	6:AF:5:ILE:HG13	1.90	0.72
7:AG:24:GLU:OE1	7:AG:25:ARG:HB2	1.89	0.72
7:AG:3:ARG:NH1	7:AG:3:ARG:HG3	2.04	0.72
9:AI:14:LEU:CD1	9:AI:18:GLN:HB3	2.19	0.72
16:AP:10:PRO:O	16:AP:45:VAL:HG21	1.88	0.72
19:AS:67:THR:CB	19:AS:70:ALA:HB2	2.19	0.72
23:AW:57:ARG:HH21	23:AW:100:ILE:HD12	1.53	0.72
24:AX:12:LYS:HA	24:AX:15:ARG:HB2	1.70	0.72
50:B2:6:VAL:HG12	50:B2:56:VAL:HA	1.71	0.72
25:BA:2346:A:H62	53:B5:37:ARG:HH12	0.79	0.72
54:B6:28:ARG:HA	54:B6:31:LEU:HD12	1.71	0.72
25:BA:1022:G:O2'	25:BA:1023:U:OP2	2.06	0.72
25:BA:819:A:H62	25:BA:1188:U:H3	1.37	0.72
25:BA:118:A:C4	25:BA:177:G:N2	2.57	0.72
25:BA:1802:A:C2	25:BA:1803:A:C4	2.78	0.72
25:BA:1976:U:O2'	25:BA:1977:A:H8	1.66	0.72
25:BA:2020:A:OP1	25:BA:2020:A:H4'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2133:G:H5''	25:BA:2134:A:OP2	1.89	0.72
25:BA:2173:A:H3'	25:BA:2174:C:C6	2.25	0.72
25:BA:2690:C:H6	25:BA:2690:C:H3'	1.54	0.72
25:BA:2745:C:C4	25:BA:2756:U:O4	2.41	0.72
25:BA:442:G:O4'	30:BF:46:ARG:HG3	1.89	0.72
25:BA:27:G:H1	25:BA:512:G:H2'	1.54	0.72
25:BA:529:A:C6	25:BA:2042:A:H2	2.07	0.72
25:BA:609:A:C6	25:BA:609(A):G:O6	2.41	0.72
25:BA:618:G:C8	25:BA:618(A):C:H5	2.07	0.72
25:BA:849:A:C6	25:BA:931:G:N1	2.57	0.72
25:BA:898:C:H3'	25:BA:899:A:H5''	1.70	0.72
27:BC:89:ALA:CB	27:BC:154:ARG:HG3	2.19	0.72
27:BC:19:ILE:HG23	27:BC:223:ARG:HB3	1.71	0.72
28:BD:147:LEU:HG	28:BD:154:LYS:CD	2.19	0.72
28:BD:7:LYS:HG3	28:BD:27:THR:N	2.04	0.72
25:BA:2821:A:OP2	29:BE:110:GLY:O	2.07	0.72
29:BE:24:THR:O	29:BE:24:THR:HG22	1.89	0.72
30:BF:118:ALA:HB2	30:BF:122:LYS:HE2	1.70	0.72
30:BF:118:ALA:CB	30:BF:122:LYS:HE2	2.19	0.72
30:BF:184:TYR:N	30:BF:184:TYR:HD2	1.87	0.72
31:BG:103:LEU:HD21	31:BG:176:LEU:CD2	2.20	0.72
31:BG:30:GLU:HB2	31:BG:162:THR:HG21	1.70	0.72
35:BM:57:ALA:HB3	35:BM:124:ALA:CA	2.19	0.72
37:BO:114:ILE:CG1	37:BO:130:PHE:HA	2.20	0.72
38:BP:74:TYR:CZ	38:BP:94:VAL:HG22	2.24	0.72
36:BN:122:LEU:HA	41:BS:71:GLY:HA3	1.71	0.72
25:BA:996:A:C5'	42:BT:93:LYS:HD2	2.15	0.72
46:BX:13:VAL:HB	46:BX:73:ARG:HE	1.54	0.72
46:BX:98:VAL:O	46:BX:99:CYS:SG	2.46	0.72
25:BA:1057:A:H2'	25:BA:1058:G:C8	2.23	0.72
1:AA:1202:G:H2'	1:AA:1203:C:C6	2.24	0.72
1:AA:263:A:H2'	1:AA:264:U:C5'	2.13	0.72
1:AA:266:G:N2	1:AA:269:C:N4	2.36	0.72
5:AE:133:LYS:HA	5:AE:133:LYS:HE2	1.71	0.72
5:AE:91:PRO:HG2	5:AE:155:LEU:HB2	1.71	0.72
6:AF:91:LEU:CD1	6:AF:99:VAL:H	1.96	0.72
7:AG:154:ASN:N	7:AG:154:ASN:ND2	2.36	0.72
7:AG:112:VAL:HG23	7:AG:161:ASN:ND2	2.03	0.72
8:AH:102:ALA:HB3	8:AH:106:PRO:HB2	1.71	0.72
9:AI:40:VAL:HA	9:AI:63:TYR:HD1	1.53	0.72
10:AJ:75:VAL:HG22	10:AJ:88:PRO:CA	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:37:PHE:N	12:AL:37:PHE:HD2	1.87	0.72
13:AM:6:ILE:CD1	13:AM:72:VAL:HB	2.20	0.72
15:AO:5:PRO:HB2	15:AO:10:LEU:HD11	1.71	0.72
16:AP:80:ARG:HG3	16:AP:80:ARG:HH11	1.54	0.72
1:AA:663:A:O3'	21:AU:64:ARG:NH2	2.23	0.72
1:AA:185:A:N3	23:AW:81:LYS:NZ	2.37	0.72
49:B1:20:VAL:HA	49:B1:55:LEU:HD23	1.70	0.72
50:B2:50:VAL:HG22	50:B2:53:LEU:CD1	2.19	0.72
51:B3:31:ILE:HD13	51:B3:31:ILE:N	2.04	0.72
25:BA:1163:G:C2	25:BA:1164:G:C8	2.78	0.72
25:BA:1202:C:N4	25:BA:1203:G:N3	2.36	0.72
25:BA:1273:U:H5''	25:BA:1646:C:H41	1.55	0.72
25:BA:1327:C:H3'	25:BA:1328:G:C8	2.25	0.72
25:BA:1444(A):A:N6	25:BA:1462:C:P	2.61	0.72
25:BA:149:A:N6	25:BA:150:C:C4	2.57	0.72
25:BA:1558:A:C2	25:BA:1560:G:O4'	2.42	0.72
25:BA:1658:C:OP1	29:BE:134:ILE:CD1	2.35	0.72
25:BA:186:G:O2'	25:BA:187:G:H5'	1.89	0.72
25:BA:2397:G:H2'	25:BA:2398:U:C6	2.25	0.72
25:BA:2683:C:OP1	41:BS:60:THR:HG21	1.88	0.72
25:BA:274:G:H3'	25:BA:274:G:N3	2.05	0.72
25:BA:52:A:C2'	25:BA:53:A:H8	2.01	0.72
25:BA:775:G:H22	25:BA:788:A:P	2.13	0.72
25:BA:981:A:H1'	25:BA:2037:G:O4'	1.90	0.72
25:BA:2579:C:H4'	29:BE:132:HIS:CE1	2.23	0.72
30:BF:142:TRP:O	30:BF:145:GLU:HB2	1.90	0.72
31:BG:75:LYS:HD3	31:BG:85:GLY:N	2.04	0.72
32:BH:85:LYS:HB3	32:BH:133:VAL:CG1	2.19	0.72
36:BN:1:MET:CG	36:BN:2:ILE:HG12	2.20	0.72
25:BA:663:G:H4'	37:BO:18:ARG:CZ	2.20	0.72
42:BT:106:PHE:O	42:BT:110:VAL:HG23	1.89	0.72
43:BU:14:VAL:CG1	43:BU:15:GLU:N	2.49	0.72
43:BU:23:GLU:HG3	43:BU:25:LEU:HG	1.72	0.72
25:BA:456:C:H5	45:BW:68:ARG:NH1	1.86	0.72
46:BX:81:LYS:CD	46:BX:96:ILE:HG13	2.20	0.72
33:BK:132:PRO:HD2	33:BK:138:ILE:H	1.53	0.72
34:BL:38:VAL:HA	34:BL:41:PHE:CD1	2.23	0.72
22:AV:50:ALA:HB1	22:AV:57:HIS:HB3	1.70	0.72
3:AD:28:G:H2'	3:AD:29:C:H6	1.54	0.72
1:AA:1049:U:H6	1:AA:1049:U:O5'	1.72	0.72
1:AA:1313:U:C5	22:AV:4:SER:HB2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:978:A:N6	1:AA:1361:G:N2	2.37	0.72
1:AA:258:G:C6	1:AA:259:G:O6	2.42	0.72
1:AA:344:A:O2'	1:AA:345:C:P	2.47	0.72
1:AA:50:A:N6	1:AA:361:G:C4'	2.52	0.72
1:AA:560:U:O2'	1:AA:561:U:OP2	2.06	0.72
3:AD:55:U:C2'	3:AD:57:G:N7	2.52	0.72
6:AF:24:ALA:HB1	6:AF:28:GLN:CD	2.10	0.72
7:AG:153:ARG:HB3	7:AG:181:MET:CE	2.19	0.72
7:AG:191:ARG:HA	7:AG:191:ARG:HE	1.55	0.72
7:AG:30:LYS:HA	7:AG:34:GLU:HB3	1.69	0.72
8:AH:41:VAL:CG1	8:AH:113:ALA:HA	2.20	0.72
1:AA:1240:U:O2	10:AJ:32:ARG:HG2	1.89	0.72
12:AL:27:THR:HG21	12:AL:62:TYR:CE1	2.24	0.72
13:AM:60:ARG:H	13:AM:60:ARG:HH11	1.36	0.72
13:AM:61:GLU:HG2	17:AQ:58:LYS:HE2	1.72	0.72
16:AP:19:LEU:HD12	16:AP:20:THR:N	2.05	0.72
16:AP:60:VAL:HA	16:AP:63:THR:CG2	2.16	0.72
20:AT:84:LEU:HD23	20:AT:84:LEU:N	2.03	0.72
14:AN:84:VAL:HG21	21:AU:88:LYS:NZ	2.04	0.72
23:AW:79:ARG:O	23:AW:82:SER:HB3	1.90	0.72
25:BA:1176:G:H5''	25:BA:1177:A:C8	2.25	0.72
25:BA:1487:G:O2'	25:BA:1488:G:H5'	1.90	0.72
25:BA:1513:C:C4	25:BA:1514:U:O4	2.41	0.72
25:BA:1552:G:H5'	25:BA:1553:A:OP1	1.89	0.72
25:BA:1674:G:H21	25:BA:1676:A:H61	1.37	0.72
25:BA:1773:A:C2'	25:BA:1774:C:H5'	2.20	0.72
25:BA:2045:C:O2'	52:B4:22:HIS:HB2	1.88	0.72
25:BA:2129:C:H2'	25:BA:2130:U:C6	2.25	0.72
25:BA:2160:G:H2'	25:BA:2161:C:H6	1.53	0.72
25:BA:2254:C:C2'	25:BA:2255:G:H5'	2.19	0.72
25:BA:2255:G:O4'	48:BZ:7:LEU:HD21	1.89	0.72
25:BA:2305:A:C3'	25:BA:2306:C:H5''	2.20	0.72
25:BA:2834:G:O6	25:BA:2835:A:C2	2.42	0.72
25:BA:344:G:C8	25:BA:344:G:H3'	2.23	0.72
25:BA:529:A:C5	25:BA:2042:A:C2	2.77	0.72
25:BA:567:A:C2	25:BA:568:U:O2	2.41	0.72
25:BA:619:G:N7	25:BA:620:G:C2	2.58	0.72
25:BA:892:G:H2'	25:BA:893:C:H6	1.53	0.72
25:BA:932:G:OP1	25:BA:932:G:H4'	1.88	0.72
26:BB:15:A:H4'	26:BB:16:G:OP2	1.90	0.72
27:BC:19:ILE:HD12	27:BC:223:ARG:CB	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2128:C:OP1	27:BC:35:ALA:HB1	1.88	0.72
27:BC:99:ILE:HG12	27:BC:107:TRP:CZ3	2.24	0.72
28:BD:14:ARG:O	28:BD:15:PHE:HB2	1.88	0.72
25:BA:1803:A:C4'	28:BD:257:LEU:HD13	2.19	0.72
28:BD:9:TYR:OH	28:BD:91:ARG:NH2	2.23	0.72
29:BE:131:ALA:C	29:BE:134:ILE:HG13	2.09	0.72
29:BE:60:ASN:HA	29:BE:63:LEU:CD1	2.20	0.72
29:BE:66:HIS:ND1	29:BE:67:PHE:N	2.38	0.72
29:BE:92:THR:H	29:BE:95:ILE:HD13	1.55	0.72
30:BF:168:ARG:CD	30:BF:169:ASN:N	2.52	0.72
30:BF:22:ALA:HB1	30:BF:115:ALA:HB2	1.71	0.72
33:BK:28:ASN:O	33:BK:32:PRO:HG3	1.90	0.72
36:BN:47:ILE:CG1	36:BN:50:GLY:HA3	2.19	0.72
37:BO:13:ASN:ND2	37:BO:14:LYS:N	2.34	0.72
25:BA:2394:C:OP1	37:BO:57:THR:HA	1.89	0.72
42:BT:76:TYR:HD2	42:BT:80:ILE:CD1	2.02	0.72
43:BU:62:LEU:CD2	43:BU:98:GLU:HA	2.20	0.72
46:BX:37:VAL:HG22	46:BX:39:VAL:HG23	1.71	0.72
25:BA:1063:G:N2	25:BA:1076:C:C5	2.55	0.72
22:AV:30:LEU:HD23	22:AV:30:LEU:O	1.90	0.72
26:BB:20:C:H2'	26:BB:21:G:H5'	1.70	0.72
1:AA:149:A:H2'	1:AA:150:C:C6	2.24	0.72
1:AA:225:C:H2'	1:AA:226:G:O5'	1.89	0.72
1:AA:642:A:N7	11:AK:115:SER:HA	2.05	0.72
1:AA:953:G:H2'	1:AA:954:G:C8	2.25	0.72
1:AA:982:U:H1'	1:AA:983:A:N6	2.03	0.72
1:AA:9:G:H5''	8:AH:126:ARG:HD3	1.72	0.72
9:AI:14:LEU:HD12	9:AI:19:LEU:CD1	2.19	0.72
9:AI:11:ASN:HB2	9:AI:86:ARG:NH2	2.05	0.72
10:AJ:36:LYS:HB2	10:AJ:36:LYS:HZ2	1.55	0.72
10:AJ:76:ARG:HB2	10:AJ:156:TRP:HE1	1.54	0.72
16:AP:81:LEU:HD22	16:AP:82:MET:N	2.05	0.72
17:AQ:24:CYS:SG	17:AQ:27:CYS:N	2.63	0.72
18:AR:68:ARG:O	18:AR:71:GLN:HB3	1.90	0.72
19:AS:34:GLU:CB	19:AS:59:TRP:HE1	2.01	0.72
20:AT:5:VAL:HG13	20:AT:59:ILE:O	1.88	0.72
22:AV:81:ARG:HG2	22:AV:81:ARG:O	1.88	0.72
25:BA:96:G:H4'	49:B1:43:HIS:NE2	2.04	0.72
51:B3:43:TYR:CA	51:B3:61:ARG:HH22	1.95	0.72
25:BA:1177:A:H2'	25:BA:1178:C:C6	2.25	0.72
25:BA:1410:G:H2'	25:BA:1411:C:C6	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1498:C:H6	25:BA:1576:U:H4'	1.53	0.72
25:BA:1515:C:OP1	25:BA:1515:C:H6	1.71	0.72
25:BA:1521:G:H3'	25:BA:1522:G:H5'	1.71	0.72
25:BA:1394:U:H4'	25:BA:1603:A:H4'	1.71	0.72
25:BA:1785:A:C2'	25:BA:1786:A:C5	2.72	0.72
25:BA:1808:U:O2	25:BA:1808:U:H2'	1.88	0.72
25:BA:1935:G:O2'	25:BA:1937:A:H2	1.73	0.72
25:BA:1993:U:C4	25:BA:1994:C:C5	2.77	0.72
25:BA:2063:C:O2	25:BA:2450:A:N6	2.23	0.72
25:BA:2332:U:P	48:BZ:43:THR:HB	2.30	0.72
25:BA:820:A:H1'	25:BA:943:U:O2	1.90	0.72
25:BA:60:G:O6	25:BA:88:G:O6	2.08	0.72
25:BA:942:G:H3'	37:BO:32:THR:HG22	1.70	0.72
25:BA:959:A:C6	25:BA:960:A:N6	2.56	0.72
26:BB:101:A:H2'	26:BB:102:G:H8	1.54	0.72
26:BB:97:G:C5	26:BB:98:G:C8	2.78	0.72
29:BE:142:GLY:C	29:BE:143:ASN:ND2	2.43	0.72
29:BE:15:PHE:O	29:BE:16:ARG:O	2.07	0.72
30:BF:40:GLN:N	30:BF:184:TYR:OH	2.22	0.72
31:BG:11:TYR:O	31:BG:15:VAL:HG13	1.90	0.72
35:BM:23:LEU:HG	35:BM:61:ARG:O	1.89	0.72
35:BM:74:ARG:HG3	35:BM:82:LEU:HD22	1.71	0.72
37:BO:130:PHE:N	37:BO:130:PHE:HD2	1.87	0.72
37:BO:81:GLN:CA	37:BO:86:LYS:HG3	2.20	0.72
38:BP:109:VAL:HG12	38:BP:110:THR:N	2.04	0.72
38:BP:114:ALA:O	38:BP:118:LEU:HG	1.89	0.72
38:BP:78:PRO:O	38:BP:79:LEU:HD23	1.90	0.72
38:BP:82:ARG:HD2	48:BZ:5:LYS:CD	2.16	0.72
41:BS:19:LEU:O	41:BS:21:GLU:N	2.23	0.72
41:BS:64:ARG:CZ	41:BS:77:PRO:CA	2.68	0.72
43:BU:5:VAL:HG13	43:BU:39:LEU:HA	1.71	0.72
25:BA:1083:U:C2'	25:BA:1084:A:H5''	2.19	0.72
2:AC:24:U:O2'	2:AC:25:C:H5'	1.90	0.72
1:AA:221:C:O2'	1:AA:222:U:H5'	1.90	0.72
1:AA:366:C:O2'	1:AA:394:G:N2	2.23	0.72
1:AA:41:G:H2'	1:AA:42:G:H8	1.54	0.72
1:AA:688:G:C2'	1:AA:689:C:H5'	2.20	0.72
6:AF:136:GLN:O	6:AF:139:GLN:HB2	1.89	0.72
6:AF:35:GLU:CA	6:AF:38:ARG:HG2	2.20	0.72
6:AF:91:LEU:HD23	6:AF:92:ALA:CA	2.20	0.72
7:AG:43:HIS:C	7:AG:45:GLN:H	1.93	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:56:VAL:HG12	7:AG:57:ARG:N	2.03	0.72
10:AJ:66:VAL:HG12	10:AJ:70:LYS:CE	2.20	0.72
11:AK:64:LYS:CD	11:AK:79:VAL:HG11	2.19	0.72
11:AK:86:ILE:HD11	11:AK:136:GLU:OE1	1.89	0.72
12:AL:31:GLN:HB3	12:AL:35:GLU:CD	2.10	0.72
12:AL:74:ILE:HA	12:AL:77:ILE:HD12	1.72	0.72
17:AQ:34:TYR:OH	17:AQ:44:LEU:HD13	1.89	0.72
20:AT:8:GLY:O	20:AT:56:VAL:HG13	1.90	0.72
50:B2:10:LYS:HG2	50:B2:31:LEU:CD2	2.16	0.72
51:B3:5:ILE:HB	51:B3:8:LYS:O	1.88	0.72
25:BA:1341:U:H2'	25:BA:1342:A:OP1	1.89	0.72
25:BA:1372:U:H2'	25:BA:1373:A:O4'	1.89	0.72
25:BA:1498:C:C6	25:BA:1576:U:H4'	2.25	0.72
25:BA:1788:C:C2'	28:BD:222:ARG:NH2	2.38	0.72
25:BA:1982:C:H2'	25:BA:1983:C:C6	2.24	0.72
25:BA:2013:A:OP1	44:BV:96:ILE:HG22	1.89	0.72
25:BA:2043:C:C2'	25:BA:2044:C:O5'	2.37	0.72
25:BA:2058:A:H2'	25:BA:2059:A:C8	2.25	0.72
25:BA:227:A:N7	25:BA:2407:G:H4'	2.04	0.72
25:BA:2582:G:H8	25:BA:2582:G:H5'	1.54	0.72
25:BA:500:G:H2'	25:BA:501:A:H5''	1.71	0.72
27:BC:100:ILE:O	27:BC:104:LEU:HD22	1.90	0.72
28:BD:92:ILE:HD11	28:BD:104:TYR:CD1	2.25	0.72
29:BE:154:LYS:HE3	29:BE:154:LYS:H	1.53	0.72
29:BE:51:PHE:HE1	29:BE:75:VAL:N	1.87	0.72
29:BE:8:LYS:CD	29:BE:9:VAL:HG22	2.20	0.72
30:BF:12:LEU:O	30:BF:12:LEU:HG	1.89	0.72
30:BF:130:ALA:HB3	30:BF:142:TRP:CB	2.10	0.72
30:BF:25:PRO:O	30:BF:28:ILE:N	2.22	0.72
31:BG:74:LYS:CG	31:BG:87:PRO:HG3	2.19	0.72
32:BH:171:LEU:HA	32:BH:172:LYS:HZ1	1.54	0.72
35:BM:26:LEU:O	35:BM:30:ILE:HD12	1.88	0.72
36:BN:10:VAL:CG1	36:BN:14:THR:HG21	2.19	0.72
37:BO:113:LYS:HD3	37:BO:113:LYS:C	2.10	0.72
38:BP:99:PRO:O	38:BP:101:ARG:HD3	1.88	0.72
38:BP:134:ARG:HE	38:BP:137:TYR:CA	2.03	0.72
42:BT:107:ALA:O	42:BT:110:VAL:HB	1.90	0.72
42:BT:88:ILE:O	43:BU:51:VAL:O	2.06	0.72
43:BU:78:LYS:HG3	43:BU:84:LYS:CG	2.16	0.72
45:BW:12:VAL:HG22	45:BW:29:TRP:NE1	2.03	0.72
45:BW:8:ILE:H	45:BW:9:LEU:HD12	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BX:12:THR:HG22	46:BX:13:VAL:HG12	1.71	0.72
47:BY:6:LYS:HG2	47:BY:35:ARG:HD3	1.71	0.72
47:BY:55:HIS:HB2	47:BY:101:PRO:CG	2.19	0.72
33:BK:87:LYS:HE2	33:BK:121:LYS:CG	2.20	0.72
33:BK:87:LYS:HE2	33:BK:121:LYS:HB2	1.72	0.72
1:AA:1418:A:H2'	1:AA:1419:G:C5'	2.14	0.72
1:AA:1519:A:C2'	1:AA:1520:G:H5'	2.17	0.72
3:AD:17:U:H3'	3:AD:18:G:C8	2.25	0.72
5:AE:168:THR:HG21	5:AE:192:SER:HA	1.69	0.72
8:AH:9:LYS:HB2	8:AH:33:VAL:HG12	1.71	0.72
10:AJ:79:ARG:NH1	10:AJ:84:ASN:HB3	2.05	0.72
13:AM:45:ARG:HB3	13:AM:45:ARG:NH1	1.99	0.72
13:AM:65:LEU:HD22	17:AQ:36:PHE:CZ	2.24	0.72
15:AO:37:CYS:CA	15:AO:58:VAL:HG22	2.20	0.72
18:AR:70:LEU:HD21	18:AR:78:TYR:HA	1.72	0.72
20:AT:40:LYS:NZ	20:AT:42:TYR:HE1	1.87	0.72
20:AT:75:ARG:HG2	20:AT:76:LEU:N	2.05	0.72
51:B3:68:ARG:HH11	51:B3:68:ARG:N	1.88	0.72
56:B8:24:TYR:CZ	56:B8:35:ARG:HB3	2.25	0.72
25:BA:1227:A:H2'	25:BA:1228:G:H5''	1.72	0.72
25:BA:126:A:C2	54:B6:18:PHE:HB3	2.24	0.72
25:BA:1516:U:H2'	25:BA:1517:G:H8	1.55	0.72
25:BA:1681:G:H21	25:BA:1762:A:C3'	2.03	0.72
25:BA:151:C:C2	25:BA:176:G:N2	2.58	0.72
1:AA:784:C:H4'	25:BA:1837:C:OP1	1.90	0.72
25:BA:1912:A:N7	25:BA:1918:A:N1	2.38	0.72
25:BA:2004:G:H2'	25:BA:2005:A:C8	2.24	0.72
25:BA:2307:G:H4'	25:BA:2311:A:H62	1.55	0.72
25:BA:2509:G:O2'	25:BA:2510:C:C5'	2.37	0.72
25:BA:270:A:C2	25:BA:370:G:H1'	2.23	0.72
25:BA:2772:C:C2	25:BA:2773:C:C5	2.78	0.72
25:BA:326:G:H2'	25:BA:327:G:C8	2.24	0.72
25:BA:465:G:H2'	25:BA:466:A:C8	2.24	0.72
25:BA:775:G:H21	25:BA:787:U:C3'	2.01	0.72
25:BA:861:A:C5	25:BA:917:A:N6	2.58	0.72
26:BB:45:A:H3'	26:BB:46:A:C8	2.23	0.72
26:BB:61:G:N2	26:BB:62:C:C2	2.57	0.72
25:BA:918:A:H8	26:BB:80:U:H4'	1.52	0.72
27:BC:163:PHE:O	27:BC:164:ARG:HB2	1.87	0.72
27:BC:86:ALA:CB	27:BC:153:ILE:HD13	2.20	0.72
31:BG:110:ALA:CB	31:BG:139:LEU:HD21	2.16	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:53:LEU:O	31:BG:68:PRO:HB2	1.90	0.72
35:BM:22:THR:OG1	35:BM:25:ARG:HG2	1.90	0.72
36:BN:42:SER:HB2	36:BN:55:GLY:O	1.90	0.72
37:BO:127:ALA:HB3	37:BO:130:PHE:HE2	1.55	0.72
37:BO:46:LYS:HZ2	37:BO:50:ARG:NE	1.88	0.72
38:BP:101:ARG:HH11	38:BP:101:ARG:CG	2.02	0.72
38:BP:97:VAL:HG12	38:BP:101:ARG:HG3	1.71	0.72
42:BT:15:LYS:HA	42:BT:18:LEU:CD2	2.20	0.72
43:BU:62:LEU:HD12	43:BU:96:ILE:CB	2.17	0.72
43:BU:61:VAL:CG1	43:BU:62:LEU:N	2.53	0.72
43:BU:16:PRO:HA	43:BU:98:GLU:HB2	1.71	0.72
47:BY:113:ALA:HB1	47:BY:145:GLU:CD	2.09	0.72
25:BA:1061:U:C5'	25:BA:1070:A:H4'	2.20	0.72
1:AA:1095:U:OP2	1:AA:1108:G:N1	2.22	0.72
1:AA:191(F):U:O2	23:AW:105:SER:HB2	1.90	0.72
1:AA:262:A:C2	1:AA:263:A:N1	2.57	0.72
1:AA:565:U:H3'	1:AA:566:G:H8	1.55	0.72
1:AA:962:C:O2'	1:AA:1200:C:N4	2.20	0.72
3:AD:76:A:C8	25:BA:2432:A:N3	2.58	0.72
5:AE:115:LEU:CD2	5:AE:149:LEU:HB3	2.20	0.72
5:AE:89:GLY:O	5:AE:90:MET:HG2	1.89	0.72
8:AH:146:ALA:O	8:AH:149:GLU:HB2	1.89	0.72
18:AR:10:LYS:O	18:AR:13:GLN:HB2	1.90	0.72
18:AR:53:HIS:O	18:AR:57:LEU:HD13	1.90	0.72
20:AT:67:LYS:CA	20:AT:70:ARG:NH2	2.53	0.72
22:AV:18:LYS:HE2	22:AV:22:LEU:HD12	1.72	0.72
22:AV:22:LEU:HG	22:AV:25:LYS:HZ1	1.54	0.72
53:B5:22:ALA:O	53:B5:23:THR:HG23	1.90	0.72
56:B8:11:CYS:HB2	56:B8:32:HIS:CE1	2.24	0.72
25:BA:1025:G:N3	25:BA:1025:G:H2'	2.02	0.72
25:BA:1039:G:H22	25:BA:1115:G:N2	1.88	0.72
25:BA:1047:G:H2'	25:BA:1110:G:N1	2.04	0.72
25:BA:1252:G:H3'	25:BA:1253:A:O4'	1.90	0.72
25:BA:1313:U:H2'	25:BA:1314:C:C6	2.24	0.72
25:BA:1399:C:H2'	25:BA:1400:G:C8	2.25	0.72
25:BA:1935:G:H4'	25:BA:1937:A:C2	2.25	0.72
25:BA:1982:C:H2'	25:BA:1983:C:H6	1.55	0.72
25:BA:209:C:O5'	25:BA:209:C:H6	1.73	0.72
25:BA:2199:A:C8	25:BA:2199:A:O5'	2.43	0.72
25:BA:2246:G:H2'	25:BA:2247:A:C8	2.25	0.72
25:BA:2472:G:H21	25:BA:2529:G:H1	0.76	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:270(C):C:N4	25:BA:270(D):C:N4	2.37	0.72
25:BA:30:G:H2'	25:BA:31:C:O4'	1.90	0.72
26:BB:43:C:H6	26:BB:43:C:O5'	1.73	0.72
27:BC:7:TYR:OH	27:BC:220:PRO:HA	1.90	0.72
28:BD:92:ILE:HA	28:BD:106:ILE:O	1.90	0.72
29:BE:102:VAL:HG12	29:BE:172:VAL:HG12	1.72	0.72
29:BE:53:PRO:HD2	29:BE:74:PRO:O	1.90	0.72
29:BE:51:PHE:CZ	29:BE:75:VAL:CG2	2.68	0.72
30:BF:122:LYS:NZ	30:BF:192:LEU:HB3	2.04	0.72
30:BF:30:PRO:O	30:BF:33:LEU:CG	2.37	0.72
31:BG:4:ASP:HA	31:BG:7:LEU:HD12	1.71	0.72
32:BH:68:THR:O	32:BH:72:ILE:HG13	1.89	0.72
36:BN:1:MET:HA	36:BN:64:ARG:HD2	1.72	0.72
37:BO:90:ARG:HA	37:BO:125:VAL:HG13	1.72	0.72
38:BP:91:GLU:CD	38:BP:91:GLU:H	1.93	0.72
39:BQ:97:VAL:HG22	39:BQ:114:VAL:HG21	1.72	0.72
39:BQ:8:ARG:CZ	39:BQ:10:LEU:HD11	2.19	0.72
40:BR:62:LYS:HB3	40:BR:65:VAL:N	2.05	0.72
25:BA:814:C:OP1	43:BU:85:LYS:HA	1.89	0.72
43:BU:62:LEU:HD13	43:BU:98:GLU:CA	2.20	0.72
45:BW:33:LYS:HZ2	45:BW:34:ALA:N	1.88	0.72
47:BY:95:PRO:HG2	47:BY:131:ARG:HG3	1.70	0.72
33:BK:87:LYS:HE3	33:BK:121:LYS:H	1.54	0.72
34:BL:72:PRO:HG2	34:BL:77:LEU:CG	2.19	0.72
1:AA:1000:A:H2'	1:AA:1001:G:H5'	1.72	0.72
3:AD:67:C:O2'	3:AD:68:U:H5'	1.89	0.72
38:BP:116:GLU:HA	38:BP:116:GLU:OE1	1.90	0.72
1:AA:1093:A:H2'	1:AA:1095:U:H5	1.54	0.71
1:AA:1118:C:H1'	1:AA:1179:A:C8	2.25	0.71
1:AA:1180:A:H2'	1:AA:1181:G:C5'	2.18	0.71
1:AA:1371:G:O2'	1:AA:1372:U:H5'	1.90	0.71
1:AA:129(A):G:N2	1:AA:191(A):G:C8	2.58	0.71
2:AC:69:C:H2'	2:AC:70:G:H8	1.54	0.71
3:AD:19:G:O2'	3:AD:58:A:H5''	1.90	0.71
3:AD:8:U:H3	3:AD:14:A:H62	1.35	0.71
5:AE:10:LEU:O	5:AE:11:LEU:C	2.28	0.71
5:AE:28:PHE:CD2	5:AE:190:THR:HA	2.24	0.71
6:AF:156:ARG:H	6:AF:163:ALA:HB1	1.53	0.71
6:AF:189:ALA:HB1	6:AF:196:LEU:HG	1.70	0.71
8:AH:43:LEU:HD22	8:AH:133:TYR:HE2	1.55	0.71
9:AI:52:ILE:CD1	9:AI:87:ARG:HH21	2.01	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:24:SER:O	18:AR:28:GLN:HG2	1.90	0.71
18:AR:71:GLN:O	18:AR:75:PRO:CD	2.38	0.71
20:AT:76:LEU:HD23	20:AT:77:VAL:N	2.04	0.71
49:B1:50:ARG:HB3	49:B1:54:ARG:HH22	1.55	0.71
50:B2:30:ARG:H	50:B2:30:ARG:CD	2.01	0.71
50:B2:41:PRO:HG3	50:B2:44:ARG:NH1	2.05	0.71
25:BA:1198:U:O2	25:BA:1199:U:C5	2.43	0.71
25:BA:151:C:O2	25:BA:176:G:N2	2.23	0.71
25:BA:1545(A):A:H2'	25:BA:1546:C:H5'	1.70	0.71
25:BA:1663:C:C3'	25:BA:1664:A:C8	2.73	0.71
25:BA:1669:A:N3	25:BA:1669:A:H2'	2.04	0.71
25:BA:1670:C:C5	25:BA:1671:U:C5	2.78	0.71
25:BA:1785:A:OP1	25:BA:1982:C:H5'	1.90	0.71
25:BA:1791:A:H4'	28:BD:206:LEU:HG	1.71	0.71
25:BA:1977:A:H2'	25:BA:1978:A:C8	2.24	0.71
25:BA:2052:G:H4'	29:BE:143:ASN:CA	2.18	0.71
25:BA:2394:C:N4	25:BA:2422:A:N6	2.38	0.71
25:BA:248:G:N2	25:BA:2431:U:H5'	2.05	0.71
25:BA:2462:U:H2'	25:BA:2463:C:C6	2.25	0.71
25:BA:270(E):G:HO2'	25:BA:270(F):U:H5'	1.55	0.71
25:BA:532:A:O3'	42:BT:28:ARG:NH1	2.22	0.71
25:BA:542:C:H2'	25:BA:543:C:H6	1.53	0.71
25:BA:996:A:H5'	42:BT:93:LYS:CD	2.15	0.71
26:BB:24:G:N3	26:BB:27:C:N4	2.38	0.71
26:BB:6:C:H2'	26:BB:7:G:O5'	1.90	0.71
29:BE:197:ILE:HD13	29:BE:199:ARG:NH2	2.05	0.71
30:BF:155:LEU:HD12	30:BF:186:ILE:HA	1.72	0.71
36:BN:57:VAL:HG11	36:BN:85:VAL:HG13	1.72	0.71
36:BN:98:VAL:CG2	36:BN:98:VAL:O	2.37	0.71
37:BO:56:SER:HB3	55:B7:13:ARG:NH2	2.05	0.71
37:BO:72:PRO:HG3	37:BO:110:TYR:CD2	2.25	0.71
38:BP:72:LYS:HB3	38:BP:73:PRO:HD2	1.71	0.71
40:BR:30:ARG:HG2	40:BR:91:PRO:CG	2.19	0.71
41:BS:114:LEU:O	41:BS:117:ASP:N	2.23	0.71
41:BS:58:ASN:N	41:BS:61:PHE:CE2	2.58	0.71
47:BY:24:LEU:HD12	47:BY:41:LEU:CD1	2.20	0.71
25:BA:2387:U:O4'	48:BZ:41:ARG:NH2	2.23	0.71
48:BZ:54:GLY:O	48:BZ:56:ASP:N	2.23	0.71
46:BX:86:ARG:HG2	46:BX:91:GLU:CB	2.20	0.71
1:AA:747:C:H2'	1:AA:748:C:O4'	1.90	0.71
1:AA:1049:U:C4	17:AQ:3:ARG:HB2	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1487:G:H2'	1:AA:1488:G:O5'	1.90	0.71
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.25	0.71
1:AA:532:A:H2'	1:AA:533:A:OP1	1.90	0.71
1:AA:657:G:H1'	18:AR:28:GLN:HE22	1.55	0.71
5:AE:161:ALA:HA	5:AE:183:PRO:HB2	1.70	0.71
5:AE:80:ILE:HG23	5:AE:212:GLN:HE21	1.55	0.71
6:AF:137:ALA:O	6:AF:141:VAL:HG23	1.90	0.71
6:AF:153:VAL:HG12	6:AF:198:VAL:CG1	2.20	0.71
7:AG:98:GLU:C	7:AG:100:ARG:H	1.93	0.71
8:AH:116:THR:O	8:AH:116:THR:HG23	1.89	0.71
8:AH:82:VAL:CB	8:AH:138:ALA:HB2	2.13	0.71
8:AH:152:ARG:HD2	11:AK:42:GLU:O	1.90	0.71
9:AI:60:PHE:HE2	21:AU:78:LEU:HD21	1.55	0.71
13:AM:56:HIS:O	13:AM:58:ASP:N	2.23	0.71
16:AP:3:ARG:HD2	31:BG:113:ARG:O	1.91	0.71
51:B3:48:ARG:H	51:B3:52:THR:HG1	1.36	0.71
55:B7:39:LYS:HG2	55:B7:40:GLU:N	2.05	0.71
25:BA:1024:G:N7	25:BA:1025:G:C8	2.59	0.71
25:BA:1135:C:O2	25:BA:2038:G:H4'	1.90	0.71
25:BA:1200:C:C2	25:BA:1246:A:C2	2.78	0.71
25:BA:1534:G:H21	25:BA:1537:C:H5	1.35	0.71
25:BA:2198:A:C2	25:BA:2225:A:N6	2.58	0.71
25:BA:2553:G:N7	25:BA:2583:G:C4'	2.54	0.71
25:BA:2555:U:H5	25:BA:2556:C:C6	2.09	0.71
25:BA:2588:G:O6	25:BA:2589:A:C6	2.42	0.71
25:BA:2023:G:H5''	25:BA:2617:C:O2'	1.89	0.71
25:BA:2657:A:N7	25:BA:2658:C:C6	2.58	0.71
25:BA:2821:A:H2'	25:BA:2822:G:O4'	1.88	0.71
25:BA:286:C:H2'	25:BA:287:C:H6	1.54	0.71
25:BA:364:C:OP2	25:BA:364:C:O4'	2.07	0.71
25:BA:385:C:O2'	25:BA:386:G:O5'	2.07	0.71
25:BA:459:U:C6	25:BA:469:G:N2	2.58	0.71
25:BA:704:G:N1	25:BA:726:G:H1'	2.03	0.71
28:BD:90:ALA:O	28:BD:91:ARG:O	2.08	0.71
25:BA:606:U:OP1	30:BF:103:LYS:N	2.23	0.71
30:BF:119:ARG:HD3	30:BF:120:GLU:CD	2.11	0.71
30:BF:185:ASP:CG	30:BF:188:ARG:HH12	1.93	0.71
30:BF:153:SER:O	30:BF:190:GLU:HB2	1.89	0.71
30:BF:40:GLN:O	30:BF:44:ARG:HG2	1.91	0.71
31:BG:75:LYS:CG	31:BG:84:LYS:HB2	2.20	0.71
32:BH:153:LYS:N	32:BH:154:PRO:HD2	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:72:TYR:HD2	35:BM:73:THR:N	1.88	0.71
37:BO:76:LYS:HE3	37:BO:99:LEU:CD1	2.19	0.71
39:BQ:102:GLU:CD	39:BQ:103:ARG:H	1.94	0.71
45:BW:65:ARG:HG2	45:BW:70:LEU:HD12	1.71	0.71
25:BA:2354:G:O2'	48:BZ:36:ILE:HG22	1.90	0.71
33:BK:127:VAL:HA	33:BK:140:LEU:O	1.91	0.71
33:BK:59:ALA:O	33:BK:62:LYS:HB2	1.91	0.71
33:BK:93:THR:CG2	33:BK:96:ASP:OD1	2.37	0.71
6:AF:157:ILE:HG21	6:AF:164:ARG:NH2	2.05	0.71
1:AA:1269:A:C8	1:AA:1270:C:H1'	2.25	0.71
1:AA:12:U:C2	1:AA:13:U:O4	2.43	0.71
1:AA:1312:G:O2'	1:AA:1313:U:H5'	1.90	0.71
1:AA:1353:G:C2	1:AA:1370:G:C2	2.78	0.71
1:AA:1390:U:C2	1:AA:1391:U:C5	2.79	0.71
1:AA:649:G:H2'	1:AA:650:G:C8	2.24	0.71
1:AA:717:C:H4'	14:AN:117:ASN:HB2	1.72	0.71
1:AA:736:C:H2'	1:AA:737:A:C8	2.26	0.71
6:AF:12:LEU:CD1	17:AQ:57:ARG:HG3	2.20	0.71
6:AF:191:THR:HB	6:AF:193:TYR:CE2	2.25	0.71
6:AF:191:THR:HG21	6:AF:196:LEU:HD11	1.71	0.71
12:AL:48:GLU:N	12:AL:49:PRO:HD2	2.05	0.71
16:AP:22:ILE:HB	16:AP:25:ILE:CD1	2.20	0.71
16:AP:48:LEU:CD2	16:AP:52:GLU:HB2	2.20	0.71
21:AU:63:GLN:HA	21:AU:66:LEU:CG	2.19	0.71
49:B1:28:MET:HA	49:B1:31:ARG:NH2	2.06	0.71
53:B5:13:CYS:HA	53:B5:23:THR:O	1.91	0.71
53:B5:16:CYS:O	53:B5:19:ARG:HD3	1.90	0.71
55:B7:5:LYS:HB2	55:B7:60:LEU:HA	1.70	0.71
25:BA:125:G:N2	54:B6:10:ARG:HA	2.03	0.71
25:BA:1274:A:OP1	25:BA:1646:C:N4	2.23	0.71
25:BA:1275:A:N7	25:BA:1296:G:C1'	2.53	0.71
25:BA:1356:G:H2'	25:BA:1357:U:C6	2.24	0.71
25:BA:1511:A:H2'	25:BA:1512:G:C5'	2.18	0.71
25:BA:1530:G:C2'	25:BA:1531:C:C6	2.72	0.71
25:BA:1580:A:H2'	25:BA:1581:G:C4	2.25	0.71
25:BA:15:G:C2'	25:BA:16:G:O5'	2.39	0.71
25:BA:1613:G:C3'	25:BA:1614:A:H5'	2.20	0.71
25:BA:1735:C:N3	25:BA:1741:C:N4	2.37	0.71
25:BA:1663:C:N4	25:BA:1992:G:C8	2.57	0.71
25:BA:2236:C:C5'	25:BA:2236:C:H6	2.03	0.71
25:BA:2405:G:H2'	25:BA:2411:A:N6	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2459:A:C5	25:BA:2493:U:O4	2.43	0.71
25:BA:2745:C:N4	25:BA:2756:U:H5	1.51	0.71
25:BA:296:C:C2	25:BA:297:C:C5	2.78	0.71
25:BA:332:A:H2'	25:BA:334:C:OP2	1.90	0.71
25:BA:475:U:C6	25:BA:509:C:N3	2.58	0.71
25:BA:510:C:O5'	25:BA:512:G:N1	2.23	0.71
25:BA:628:G:H8	25:BA:628:G:O5'	1.74	0.71
25:BA:67:U:H2'	25:BA:68:G:C8	2.24	0.71
25:BA:691:C:C1'	28:BD:45:ASN:ND2	2.54	0.71
25:BA:781:A:H1'	28:BD:222:ARG:HH12	1.53	0.71
25:BA:78:A:H2'	25:BA:79:G:H8	1.55	0.71
25:BA:914:C:H2'	25:BA:915:C:H5'	1.71	0.71
25:BA:848:G:O6	25:BA:929:G:H2'	1.90	0.71
25:BA:957:A:O2'	25:BA:958:U:H5'	1.90	0.71
27:BC:27:HIS:CD2	27:BC:182:PRO:HB3	2.24	0.71
28:BD:177:LEU:HD21	28:BD:183:ARG:N	2.05	0.71
28:BD:39:LYS:HD2	28:BD:39:LYS:N	1.99	0.71
28:BD:92:ILE:CD1	28:BD:104:TYR:CD1	2.74	0.71
29:BE:152:LYS:HZ1	35:BM:77:GLY:HA3	1.56	0.71
29:BE:49:LEU:HD11	29:BE:74:PRO:CB	2.19	0.71
31:BG:16:ARG:O	31:BG:20:ILE:CB	2.38	0.71
31:BG:43:LEU:H	31:BG:43:LEU:HD22	1.54	0.71
32:BH:149:ARG:HA	32:BH:162:ILE:HG12	1.70	0.71
33:BK:37:VAL:CG1	33:BK:38:LEU:H	1.97	0.71
35:BM:26:LEU:O	35:BM:29:LYS:HB2	1.90	0.71
35:BM:69:GLN:CD	35:BM:87:LEU:HD22	2.10	0.71
38:BP:134:ARG:CZ	38:BP:137:TYR:H	2.04	0.71
38:BP:134:ARG:NE	38:BP:137:TYR:CA	2.53	0.71
39:BQ:72:ASP:O	39:BQ:76:VAL:HB	1.90	0.71
29:BE:183:LEU:HD21	41:BS:10:VAL:HG13	1.70	0.71
42:BT:31:SER:O	42:BT:33:ARG:N	2.23	0.71
42:BT:88:ILE:HG12	43:BU:52:VAL:CG2	2.19	0.71
43:BU:4:ILE:N	43:BU:4:ILE:HD12	2.06	0.71
42:BT:40:PHE:HB3	43:BU:78:LYS:HZ1	1.54	0.71
25:BA:1224:G:H2'	43:BU:87:HIS:CE1	2.25	0.71
46:BX:74:PRO:C	46:BX:76:CYS:N	2.42	0.71
48:BZ:23:VAL:HA	48:BZ:38:VAL:CG1	2.18	0.71
33:BK:57:ARG:CD	33:BK:61:ARG:HH21	2.02	0.71
34:BL:128:ALA:HB1	34:BL:138:VAL:HG11	1.72	0.71
1:AA:1055:A:N6	1:AA:1206:G:N7	2.38	0.71
1:AA:1404:C:H1'	1:AA:1499:A:C2	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:173:U:H5'	1:AA:197:A:C1'	2.19	0.71
5:AE:163:PHE:HA	5:AE:185:ILE:HG13	1.72	0.71
7:AG:143:GLY:HA2	7:AG:185:PHE:HB3	1.73	0.71
9:AI:100:ASN:HD22	21:AU:23:LYS:CG	1.98	0.71
16:AP:66:LEU:HA	16:AP:70:LEU:HD12	1.71	0.71
21:AU:79:LEU:N	21:AU:79:LEU:HD12	2.04	0.71
14:AN:110:ASP:HB3	21:AU:85:LEU:HB3	1.71	0.71
25:BA:1158:C:C5'	50:B2:31:LEU:HB3	2.19	0.71
50:B2:7:LYS:CE	50:B2:33:GLN:H	2.01	0.71
52:B4:25:LEU:HG	52:B4:26:THR:H	1.56	0.71
25:BA:1620:G:O4'	54:B6:1:MET:N	2.23	0.71
54:B6:2:LYS:O	54:B6:4:THR:N	2.23	0.71
25:BA:977:G:H5'	25:BA:1155:A:H4'	1.71	0.71
25:BA:1161:C:C2'	25:BA:1162:G:H5'	2.21	0.71
25:BA:1567:A:H4'	25:BA:1568:G:N1	2.05	0.71
25:BA:1632:A:N3	25:BA:1633:G:N2	2.37	0.71
25:BA:1987:G:HO2'	25:BA:1988:C:H6	1.36	0.71
25:BA:2228:G:H5'	25:BA:2229:C:OP2	1.90	0.71
25:BA:2283:C:N3	25:BA:2284:C:H1'	2.06	0.71
25:BA:2392:A:H1'	37:BO:55:ARG:HH22	1.56	0.71
25:BA:2424:C:H5'	25:BA:2425:A:C5'	2.20	0.71
25:BA:248:G:N2	25:BA:2431:U:O4'	2.23	0.71
25:BA:2527:C:H3'	25:BA:2527:C:OP2	1.91	0.71
25:BA:2633:G:H5'	25:BA:2811:G:O2'	1.90	0.71
25:BA:401:A:C5	25:BA:402:A:C8	2.78	0.71
25:BA:467:G:H2'	25:BA:468:G:H5'	1.70	0.71
25:BA:481:G:O2'	25:BA:482:A:H8	1.73	0.71
25:BA:483:A:H1'	46:BX:45:VAL:O	1.89	0.71
25:BA:531:C:C2'	25:BA:531:C:O2	2.39	0.71
25:BA:556:G:C4	25:BA:557:U:C5	2.78	0.71
25:BA:618(A):C:N4	25:BA:619:G:H21	1.88	0.71
25:BA:704:G:C2	25:BA:726:G:H1'	2.25	0.71
27:BC:22:ILE:O	27:BC:25:ALA:HB3	1.90	0.71
28:BD:137:PRO:CG	28:BD:140:THR:HG21	2.20	0.71
28:BD:20:ASP:O	28:BD:21:PHE:HB2	1.91	0.71
32:BH:35:VAL:HG12	32:BH:71:LEU:CD2	2.20	0.71
36:BN:65:THR:HG22	36:BN:77:ILE:CG1	2.19	0.71
25:BA:811:U:C5	37:BO:24:GLY:CA	2.67	0.71
40:BR:73:LEU:H	40:BR:73:LEU:CD1	2.03	0.71
41:BS:32:TYR:O	41:BS:47:GLY:CA	2.30	0.71
25:BA:1009:A:O4'	42:BT:59:ARG:NH2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:92:ARG:C	42:BT:93:LYS:HZ3	1.92	0.71
42:BT:94:ASN:O	42:BT:98:LEU:HD23	1.90	0.71
43:BU:68:LYS:HZ2	43:BU:95:LEU:HD11	1.56	0.71
45:BW:40:LYS:HG2	45:BW:51:VAL:HG11	1.71	0.71
46:BX:93:GLY:O	46:BX:95:LYS:N	2.23	0.71
47:BY:30:ASN:OD1	47:BY:33:LEU:HD12	1.89	0.71
34:BL:40:ALA:O	34:BL:43:ALA:HB3	1.90	0.71
34:BL:66:THR:O	34:BL:67:PHE:HB2	1.90	0.71
1:AA:1046:A:H2'	1:AA:1046:A:N3	2.04	0.71
1:AA:1223:C:O5'	1:AA:1224:G:H5''	1.90	0.71
1:AA:1256:A:O2'	1:AA:1257:U:H1'	1.90	0.71
1:AA:1319:A:H5'	22:AV:5:LEU:HD21	1.72	0.71
1:AA:291:C:H3'	1:AA:305:G:N2	2.04	0.71
1:AA:297:G:N2	1:AA:300:A:OP2	2.22	0.71
1:AA:298:A:C3'	1:AA:299:G:H8	2.03	0.71
1:AA:530:G:H5''	1:AA:531:U:O5'	1.90	0.71
1:AA:580:U:H3'	1:AA:581:G:C8	2.24	0.71
1:AA:689:C:H4'	1:AA:705:U:H1'	1.71	0.71
1:AA:745:C:H2'	1:AA:746:A:C8	2.25	0.71
7:AG:78:LEU:HD21	7:AG:96:LEU:HB3	1.73	0.71
11:AK:103:VAL:HG21	11:AK:109:ILE:C	2.11	0.71
15:AO:85:ILE:HG23	15:AO:85:ILE:O	1.89	0.71
16:AP:97:PRO:N	16:AP:110:ARG:HG2	2.04	0.71
16:AP:60:VAL:HG22	16:AP:64:TRP:HE3	1.53	0.71
18:AR:53:HIS:O	18:AR:56:LEU:HB3	1.90	0.71
49:B1:6:GLU:C	49:B1:10:LYS:HE2	2.11	0.71
52:B4:37:LYS:O	52:B4:38:ALA:O	2.09	0.71
53:B5:11:LEU:HB3	53:B5:25:LYS:HG2	1.73	0.71
25:BA:126:A:H5''	54:B6:18:PHE:HD1	1.54	0.71
25:BA:1290:C:H2'	25:BA:1291:C:C6	2.25	0.71
25:BA:1299:G:H5'	25:BA:1301:A:H1'	1.73	0.71
25:BA:1378:A:H4'	25:BA:1379:A:OP1	1.89	0.71
25:BA:1475:G:N2	25:BA:1476:C:H6	1.87	0.71
25:BA:1899:G:H3'	25:BA:1899:G:H8	1.55	0.71
25:BA:2019:A:N1	25:BA:2035:G:O6	2.23	0.71
25:BA:2049:G:C2'	25:BA:2050:C:O5'	2.39	0.71
25:BA:2209:C:O2'	25:BA:2210:G:H3'	1.89	0.71
25:BA:2305:A:H1'	31:BG:154:GLY:C	2.10	0.71
25:BA:2322:A:N3	25:BA:2322:A:H2'	2.05	0.71
25:BA:2443:C:H2'	25:BA:2444:G:C8	2.25	0.71
25:BA:2458:G:N7	25:BA:2490:G:C6	2.58	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2519:U:C6	25:BA:2542:A:N6	2.59	0.71
25:BA:2603:G:C6	25:BA:2604:U:C4	2.78	0.71
25:BA:2785:C:C4	25:BA:2786:U:O4	2.43	0.71
25:BA:30:G:H2'	25:BA:31:C:C6	2.26	0.71
25:BA:588:U:O2'	25:BA:589:C:H5'	1.91	0.71
25:BA:685:A:OP1	25:BA:686:G:N2	2.23	0.71
25:BA:919:G:H2'	25:BA:920:G:H8	1.53	0.71
26:BB:8:U:C2	26:BB:9:G:C8	2.78	0.71
28:BD:253:GLN:O	28:BD:254:THR:HG23	1.91	0.71
29:BE:103:ASP:OD2	29:BE:200:GLU:HA	1.90	0.71
29:BE:5:LEU:HG	29:BE:25:VAL:HG11	1.73	0.71
25:BA:2811:G:H5''	29:BE:59:VAL:HG13	1.73	0.71
32:BH:40:GLU:HB2	32:BH:55:PRO:CG	2.15	0.71
36:BN:33:ALA:CB	36:BN:39:ILE:HG21	2.21	0.71
36:BN:3:GLN:CD	36:BN:3:GLN:N	2.43	0.71
38:BP:37:LEU:HG	38:BP:129:THR:CA	2.18	0.71
39:BQ:13:HIS:CD2	39:BQ:16:HIS:CE1	2.78	0.71
39:BQ:26:LYS:CE	39:BQ:70:LEU:HA	2.20	0.71
25:BA:2876:G:P	41:BS:2:ASN:HB3	2.30	0.71
25:BA:85:G:H5''	46:BX:28:LYS:HE3	1.70	0.71
47:BY:2:GLU:HG2	47:BY:60:GLU:HA	1.71	0.71
33:BK:58:LEU:HA	33:BK:61:ARG:HG3	1.71	0.71
22:AV:32:LYS:CB	22:AV:50:ALA:HB3	2.20	0.71
1:AA:843:U:OP2	1:AA:843:U:H4'	1.90	0.71
52:B4:30:LEU:N	52:B4:30:LEU:HD12	2.05	0.71
14:AN:86:GLY:HA2	14:AN:112:THR:HG23	1.73	0.71
1:AA:1304:G:H1'	1:AA:1333:A:H61	1.54	0.71
1:AA:579:G:O2'	1:AA:580:U:H5'	1.89	0.71
1:AA:671:G:C2	1:AA:672:U:C2	2.77	0.71
1:AA:983:A:H2	1:AA:984:C:C6	2.09	0.71
6:AF:19:GLU:HB3	6:AF:55:VAL:O	1.91	0.71
10:AJ:42:ILE:HG22	10:AJ:120:ILE:CD1	2.20	0.71
1:AA:642:A:C5	11:AK:115:SER:HA	2.25	0.71
11:AK:1:MET:HG2	11:AK:2:LEU:H	1.54	0.71
11:AK:6:ILE:CG2	11:AK:7:ALA:H	2.02	0.71
12:AL:96:LEU:O	12:AL:100:GLY:HA2	1.90	0.71
1:AA:1350:A:OP2	12:AL:118:LYS:HG3	1.91	0.71
14:AN:84:VAL:HG21	21:AU:88:LYS:HZ2	1.56	0.71
16:AP:14:ARG:CG	16:AP:17:VAL:HG23	2.21	0.71
16:AP:2:ALA:HB3	16:AP:4:ILE:HG23	1.71	0.71
18:AR:36:ILE:HA	18:AR:59:MET:HE1	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:74:ASP:OD2	18:AR:77:ARG:HB2	1.91	0.71
19:AS:51:VAL:O	19:AS:52:ASP:C	2.28	0.71
19:AS:72:ARG:HD3	19:AS:73:LEU:H	1.51	0.71
20:AT:9:VAL:HG13	20:AT:11:VAL:CG2	2.20	0.71
23:AW:73:HIS:O	23:AW:74:LYS:O	2.08	0.71
49:B1:20:VAL:CA	49:B1:55:LEU:HD23	2.20	0.71
54:B6:42:LEU:HB3	54:B6:44:PRO:CG	2.20	0.71
54:B6:43:THR:HG23	54:B6:46:VAL:HB	1.71	0.71
25:BA:1050:A:H2	25:BA:2751:G:H5'	1.55	0.71
25:BA:1568:G:H5''	28:BD:60:ARG:C	2.10	0.71
25:BA:1673:U:C4	25:BA:1675:C:H6	2.09	0.71
25:BA:1697:G:C3'	25:BA:1698:A:C5'	2.69	0.71
25:BA:1817:G:OP1	28:BD:88:ARG:NH1	2.23	0.71
25:BA:1956:U:H2'	25:BA:1957:C:C6	2.26	0.71
25:BA:1995:U:H6	25:BA:1995:U:C3'	2.02	0.71
25:BA:2127:G:O2'	25:BA:2128:C:H5'	1.91	0.71
25:BA:2208:U:H1'	25:BA:2217:G:H1	1.54	0.71
25:BA:227:A:N7	25:BA:2407:G:C4'	2.54	0.71
25:BA:2478:A:N7	25:BA:2479:G:C8	2.59	0.71
25:BA:240:G:N2	25:BA:256:A:C8	2.59	0.71
25:BA:2687:U:H2'	25:BA:2687:U:O2	1.90	0.71
25:BA:270:A:H2'	25:BA:270(A):A:H4'	1.72	0.71
25:BA:2819:G:H2'	25:BA:2821:A:H62	1.55	0.71
25:BA:2839:G:H4'	39:BQ:49:ASP:OD2	1.91	0.71
25:BA:2844:G:N2	25:BA:2845:G:O4'	2.23	0.71
25:BA:294:A:C2	25:BA:346:A:C2	2.79	0.71
25:BA:281:G:H8	25:BA:427:U:O2	1.74	0.71
25:BA:1566:A:C4	28:BD:215:LEU:HD22	2.25	0.71
28:BD:260:ARG:O	28:BD:261:LYS:C	2.28	0.71
28:BD:5:LYS:HG2	28:BD:29:PRO:HA	1.73	0.71
25:BA:1568:G:P	28:BD:61:LEU:CG	2.76	0.71
25:BA:2618:G:H21	29:BE:150:VAL:HG11	1.55	0.71
29:BE:200:GLU:O	29:BE:202:LYS:HE2	1.89	0.71
30:BF:122:LYS:CE	30:BF:192:LEU:HD12	2.20	0.71
30:BF:6:VAL:CA	30:BF:20:LEU:HD21	2.15	0.71
31:BG:55:LYS:HD2	31:BG:58:GLN:CD	2.11	0.71
35:BM:42:TRP:O	35:BM:43:THR:HG23	1.90	0.71
36:BN:105:GLU:C	36:BN:111:PHE:CZ	2.64	0.71
36:BN:99:PHE:O	36:BN:118:ALA:O	2.07	0.71
37:BO:63:PRO:HB2	37:BO:64:LYS:CE	2.21	0.71
41:BS:48:ILE:CG2	41:BS:50:ILE:HD11	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:35:LEU:N	43:BU:61:VAL:HG13	2.05	0.71
44:BV:4:LYS:HA	44:BV:106:ILE:HD12	1.73	0.71
47:BY:37:VAL:O	47:BY:38:TYR:HD2	1.74	0.71
48:BZ:53:MET:SD	48:BZ:59:LEU:HG	2.30	0.71
1:AA:90:C:O2'	1:AA:91:C:H5'	1.90	0.71
1:AA:1314:C:H2'	1:AA:1315:U:C5	2.25	0.71
1:AA:1323:G:C6	1:AA:1324:A:N6	2.59	0.71
1:AA:1515:C:O2	1:AA:1516:G:C8	2.43	0.71
1:AA:247:G:N3	1:AA:282:A:C2	2.59	0.71
1:AA:264:U:O2	1:AA:264:U:H2'	1.89	0.71
1:AA:308:C:H2'	1:AA:309:G:O5'	1.89	0.71
1:AA:378:G:H2'	1:AA:379:C:H6	1.53	0.71
1:AA:408:A:H2'	1:AA:409:G:H8	1.54	0.71
1:AA:754:C:H5'	1:AA:755:G:H8	1.55	0.71
5:AE:96:ARG:N	5:AE:96:ARG:HD2	2.04	0.71
8:AH:129:ILE:HG22	8:AH:130:ASN:N	2.05	0.71
9:AI:33:TYR:CE2	9:AI:74:ASP:HB2	2.23	0.71
10:AJ:75:VAL:HG21	10:AJ:146:GLU:H	1.55	0.71
10:AJ:41:ARG:HH11	10:AJ:41:ARG:HG2	1.56	0.71
11:AK:63:LEU:HG	11:AK:65:TYR:CE1	2.25	0.71
11:AK:84:ARG:HH11	11:AK:84:ARG:HB3	1.54	0.71
13:AM:75:ILE:HG22	13:AM:76:ASN:HD22	1.55	0.71
13:AM:9:ARG:HD2	13:AM:95:GLU:OE2	1.89	0.71
14:AN:91:ARG:HG2	14:AN:95:ILE:HD11	1.70	0.71
1:AA:1329:A:H5'	16:AP:29:ARG:NE	2.04	0.71
16:AP:14:ARG:H	16:AP:44:ARG:NH1	1.89	0.71
11:AK:90:GLY:HA2	20:AT:34:LYS:NZ	2.06	0.71
21:AU:74:ARG:HA	21:AU:79:LEU:HD11	1.73	0.71
1:AA:186(B):C:H4'	23:AW:89:ARG:NH1	2.04	0.71
25:BA:95:G:H4'	49:B1:39:LEU:O	1.91	0.71
49:B1:55:LEU:C	49:B1:58:VAL:HG13	2.11	0.71
50:B2:22:ALA:O	50:B2:26:LEU:HD22	1.90	0.71
25:BA:2286:A:N6	53:B5:28:ARG:C	2.43	0.71
53:B5:35:GLU:HB2	53:B5:51:GLU:OE1	1.91	0.71
25:BA:1332:G:H5''	25:BA:1333:C:OP2	1.91	0.71
25:BA:1913:A:H2'	25:BA:1913:A:N3	2.05	0.71
25:BA:1900:A:C2	25:BA:1970:A:C6	2.79	0.71
25:BA:2025:C:H2'	25:BA:2026:C:H6	1.56	0.71
25:BA:2387:U:H1'	48:BZ:41:ARG:NH2	2.05	0.71
3:AD:76:A:H2'	25:BA:2432:A:C2'	2.20	0.71
25:BA:2491:U:H6	25:BA:2492:U:H5'	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2636:U:P	29:BE:78:LEU:HD12	2.30	0.71
25:BA:322:A:C4'	25:BA:341:G:H5'	2.21	0.71
25:BA:508:G:H4'	25:BA:509:C:H5''	1.71	0.71
25:BA:548:A:N6	25:BA:549:G:H21	1.87	0.71
25:BA:602:G:H21	25:BA:655:A:C2'	2.01	0.71
25:BA:720:C:H2'	25:BA:721:C:C6	2.26	0.71
25:BA:788:A:O2'	25:BA:789:A:OP2	2.08	0.71
25:BA:858:U:H5''	25:BA:859:G:N2	2.05	0.71
25:BA:997:G:C5'	42:BT:92:ARG:NH1	2.51	0.71
27:BC:86:ALA:CB	27:BC:149:ILE:HG12	2.21	0.71
25:BA:2682:U:C2	29:BE:21:VAL:HG11	2.26	0.71
29:BE:23:VAL:CG2	29:BE:184:VAL:HG23	2.19	0.71
29:BE:49:LEU:HD22	29:BE:76:ARG:O	1.90	0.71
30:BF:121:GLY:CA	30:BF:191:ARG:HE	2.03	0.71
31:BG:114:ILE:HD11	31:BG:115:ARG:HH21	1.56	0.71
31:BG:126:ASP:HA	31:BG:166:ASP:CG	2.10	0.71
32:BH:7:LEU:O	32:BH:51:ARG:NE	2.23	0.71
33:BK:40:THR:HG21	33:BK:42:SER:HB3	1.72	0.71
25:BA:1007:C:O2'	35:BM:108:PRO:HB3	1.90	0.71
35:BM:107:LEU:CD1	35:BM:116:LEU:HB3	2.20	0.71
36:BN:19:ILE:C	36:BN:19:ILE:HD12	2.10	0.71
37:BO:76:LYS:HG3	37:BO:101:VAL:HG21	1.72	0.71
37:BO:6:LEU:O	37:BO:6:LEU:HD23	1.91	0.71
38:BP:8:LYS:HD2	38:BP:93:TYR:CD2	2.25	0.71
40:BR:11:LYS:HG2	40:BR:15:ARG:HH22	1.56	0.71
44:BV:46:PHE:O	44:BV:50:VAL:HG23	1.89	0.71
46:BX:41:GLY:HA3	46:BX:61:ILE:HG22	1.72	0.71
26:BB:76:G:H1'	47:BY:75:ASN:HD21	1.53	0.71
48:BZ:28:GLY:O	48:BZ:29:GLN:O	2.09	0.71
34:BL:21:PRO:HG2	34:BL:22:PRO:CD	2.20	0.71
22:AV:30:LEU:CD1	22:AV:59:PRO:HB3	2.19	0.71
32:BH:108:GLY:O	32:BH:109:PHE:O	2.08	0.71
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.56	0.71
1:AA:152:A:H3'	1:AA:152:A:H8	1.55	0.71
1:AA:107:G:H5'	1:AA:379:C:OP1	1.91	0.71
1:AA:51:A:N1	1:AA:116:A:N3	2.39	0.71
1:AA:52:G:H2'	1:AA:53:A:O4'	1.91	0.71
6:AF:29:TYR:OH	17:AQ:54:PRO:HG2	1.90	0.71
10:AJ:143:ARG:HH11	10:AJ:144:MET:HG2	1.56	0.71
10:AJ:16:LEU:O	10:AJ:17:VAL:HG23	1.91	0.71
11:AK:126:LYS:HD2	11:AK:126:LYS:C	2.10	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:78:LYS:HA	12:AL:81:ILE:HD12	1.72	0.71
21:AU:25:THR:HG22	21:AU:42:ARG:HH21	1.55	0.71
9:AI:62:TRP:HB2	21:AU:35:ARG:HH12	1.56	0.71
49:B1:17:GLU:O	49:B1:21:ARG:HG2	1.91	0.71
25:BA:96:G:P	49:B1:43:HIS:HE2	2.13	0.71
49:B1:5:LEU:HD21	49:B1:9:ARG:NH1	2.04	0.71
54:B6:17:GLY:N	54:B6:21:ARG:NH2	2.31	0.71
25:BA:1186:G:C8	25:BA:1187:G:C8	2.79	0.71
25:BA:1811:G:H2'	25:BA:1812:A:C8	2.25	0.71
25:BA:1840:G:N2	25:BA:1841:U:H1'	2.04	0.71
25:BA:1947:C:C2	25:BA:1948:G:C8	2.78	0.71
25:BA:2371:G:N2	25:BA:2372:G:C4	2.59	0.71
25:BA:2470:G:O6	25:BA:2481:G:C2	2.44	0.71
25:BA:2603:G:C5	25:BA:2604:U:C5	2.78	0.71
25:BA:2643:G:H2'	25:BA:2644:G:C8	2.25	0.71
25:BA:2734:A:O2'	29:BE:205:ALA:HB3	1.91	0.71
25:BA:576:U:C2	25:BA:577:G:N7	2.59	0.71
25:BA:681:G:C2	25:BA:682:G:C4	2.79	0.71
25:BA:849:A:O2'	25:BA:850:C:H5'	1.90	0.71
25:BA:858:U:C6	25:BA:859:G:N2	2.59	0.71
26:BB:13:A:H61	26:BB:69:G:C2'	2.02	0.71
27:BC:192:PHE:HE1	27:BC:196:LEU:HD13	1.54	0.71
27:BC:39:GLU:OE2	27:BC:216:THR:HB	1.89	0.71
28:BD:177:LEU:HD11	28:BD:181:GLU:HB3	1.71	0.71
28:BD:198:ASN:HD21	28:BD:201:HIS:HB3	1.45	0.71
28:BD:182:LEU:HG	28:BD:270:ILE:CG1	2.20	0.71
29:BE:120:TRP:CH2	29:BE:122:PHE:HB2	2.26	0.71
29:BE:66:HIS:CG	29:BE:67:PHE:N	2.59	0.71
30:BF:58:ALA:O	30:BF:60:SER:N	2.23	0.71
30:BF:6:VAL:CA	30:BF:20:LEU:CD1	2.67	0.71
31:BG:101:ILE:O	31:BG:104:GLU:HB3	1.91	0.71
31:BG:111:LEU:HB3	31:BG:112:PRO:HD2	1.73	0.71
32:BH:7:LEU:N	32:BH:8:PRO:HD2	2.05	0.71
35:BM:39:ARG:HB3	35:BM:48:MET:HG3	1.73	0.71
35:BM:55:VAL:CG2	35:BM:127:ASP:HA	2.20	0.71
38:BP:79:LEU:HG	38:BP:81:VAL:CG2	2.20	0.71
39:BQ:103:ARG:HA	39:BQ:109:ALA:O	1.91	0.71
40:BR:39:ILE:C	40:BR:40:ILE:HD12	2.10	0.71
41:BS:63:VAL:O	41:BS:64:ARG:NH1	2.24	0.71
45:BW:39:ILE:HG21	45:BW:54:VAL:HG11	1.71	0.71
46:BX:97:ARG:HA	46:BX:101:LYS:HG2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:7:ALA:CB	47:BY:36:LYS:O	2.35	0.71
6:AF:122:GLU:HA	6:AF:125:GLU:HG2	1.73	0.71
1:AA:747:C:H2'	1:AA:748:C:C1'	2.21	0.71
1:AA:1502:A:C2	1:AA:1504:G:C4	2.79	0.71
1:AA:222:U:O2'	1:AA:223:U:H5'	1.91	0.71
1:AA:267:C:N4	1:AA:268:C:H41	1.89	0.71
1:AA:283:C:H2'	1:AA:283:C:O2	1.91	0.71
1:AA:611:A:H61	1:AA:629:G:H1	1.31	0.71
1:AA:668:G:O2'	1:AA:669:U:H5'	1.90	0.71
1:AA:735:C:O2'	1:AA:736:C:H5'	1.91	0.71
1:AA:891:U:H2'	1:AA:892:A:H8	1.54	0.71
1:AA:993:G:N2	1:AA:995:C:N4	2.39	0.71
5:AE:102:LEU:HB2	5:AE:176:GLU:OE1	1.91	0.71
5:AE:53:ARG:HA	5:AE:56:ARG:HH12	1.56	0.71
6:AF:25:GLY:H	6:AF:28:GLN:NE2	1.88	0.71
8:AH:109:ILE:HD13	8:AH:135:THR:HG22	1.73	0.71
9:AI:23:LYS:O	9:AI:26:ILE:HB	1.91	0.71
9:AI:53:ALA:HB1	9:AI:86:ARG:NH1	2.05	0.71
12:AL:48:GLU:OE1	12:AL:48:GLU:HA	1.91	0.71
12:AL:6:GLY:HA3	12:AL:80:GLY:O	1.90	0.71
13:AM:65:LEU:HD22	17:AQ:36:PHE:HZ	1.56	0.71
1:AA:1329:A:H5'	16:AP:29:ARG:HE	1.54	0.71
19:AS:39:TYR:CE1	19:AS:41:PRO:CG	2.74	0.71
21:AU:34:TYR:CE1	21:AU:35:ARG:HG3	2.25	0.71
21:AU:66:LEU:CD1	21:AU:70:ILE:HD11	2.21	0.71
22:AV:41:VAL:CB	22:AV:42:PRO:HD2	2.16	0.71
23:AW:72:LEU:HD22	23:AW:77:ALA:N	2.06	0.71
49:B1:11:LEU:N	49:B1:11:LEU:HD12	2.05	0.71
51:B3:21:VAL:C	51:B3:22:ILE:HG13	2.10	0.71
51:B3:41:PRO:C	51:B3:58:ARG:HH11	1.93	0.71
39:BQ:100:LEU:O	52:B4:44:THR:HG22	1.89	0.71
54:B6:43:THR:HG23	54:B6:46:VAL:CG1	2.21	0.71
25:BA:1044:G:N3	25:BA:1111:A:H1'	2.06	0.71
25:BA:1215:G:O2'	25:BA:1216:G:H5'	1.90	0.71
25:BA:1672:C:H5	25:BA:1673:U:C6	2.08	0.71
25:BA:1674:G:N2	25:BA:1676:A:H61	1.89	0.71
25:BA:1692:U:C1'	25:BA:1696:G:N2	2.52	0.71
25:BA:1731:G:N2	25:BA:1733:G:N2	2.38	0.71
25:BA:1775:U:C1'	28:BD:208:LYS:HZ2	2.00	0.71
25:BA:1813:G:H21	28:BD:51:VAL:HG11	1.54	0.71
25:BA:1838:C:H5'	25:BA:1839:G:OP1	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2014:A:N3	25:BA:2015:A:N1	2.37	0.71
25:BA:2043:C:N4	25:BA:2777:G:C4	2.59	0.71
25:BA:2209:C:OP2	25:BA:2209:C:H3'	1.91	0.71
25:BA:2459:A:C4	25:BA:2460:U:H1'	2.21	0.71
25:BA:2522:U:O2'	25:BA:2647:U:OP1	2.08	0.71
25:BA:242:G:N2	25:BA:255:A:OP2	2.23	0.71
25:BA:2839:G:H2'	25:BA:2840:C:H6	1.56	0.71
25:BA:292:C:C3'	25:BA:293:U:H3	2.03	0.71
25:BA:559:G:O2'	25:BA:560:C:O5'	2.09	0.71
25:BA:567:A:N1	25:BA:568:U:O2	2.24	0.71
25:BA:580:C:O2'	25:BA:581:C:H5'	1.91	0.71
25:BA:705:A:C6	25:BA:727:A:H1'	2.25	0.71
25:BA:813:U:O2'	25:BA:814:C:H5'	1.90	0.71
25:BA:975:G:C6	25:BA:976:C:H5	2.08	0.71
26:BB:75:G:H2'	47:BY:85:HIS:HE1	1.55	0.71
28:BD:75:ILE:O	28:BD:118:VAL:HG13	1.91	0.71
31:BG:163:ALA:HB2	31:BG:172:LEU:CD2	2.18	0.71
31:BG:34:LEU:HD23	31:BG:172:LEU:HD11	1.71	0.71
2:AC:19:G:H21	31:BG:82:LEU:HD13	1.56	0.71
32:BH:163:TYR:HB3	32:BH:166:GLY:HA2	1.73	0.71
38:BP:112:GLU:HA	38:BP:115:MET:CB	2.20	0.71
40:BR:38:GLN:HE22	40:BR:47:THR:HG21	1.56	0.71
25:BA:84:A:OP1	46:BX:8:LYS:HD3	1.91	0.71
22:AV:30:LEU:HD21	22:AV:50:ALA:HB2	1.72	0.71
1:AA:1005:A:H4'	1:AA:1037:C:O2	1.90	0.71
25:BA:2295:C:H1'	25:BA:2338:G:N2	2.06	0.71
1:AA:76:G:H2'	1:AA:77:C:C6	2.26	0.71
1:AA:103:C:O2'	1:AA:104:G:H5'	1.91	0.71
1:AA:1365:G:H2'	1:AA:1366:C:H6	1.55	0.71
1:AA:1377:A:H4'	1:AA:1378:C:C5	2.25	0.71
1:AA:1402:C:C4	1:AA:1403:C:C4	2.79	0.71
1:AA:265:G:H2'	1:AA:267:C:C5	2.23	0.71
1:AA:60:A:N1	1:AA:107:G:O2'	2.18	0.71
2:AC:19:G:H3'	2:AC:20:U:C5	2.25	0.71
5:AE:17:PHE:C	5:AE:42:ILE:HG22	2.10	0.71
5:AE:56:ARG:HA	5:AE:59:GLU:HG3	1.73	0.71
1:AA:619:U:N3	7:AG:135:LEU:HD21	2.05	0.71
7:AG:92:VAL:O	7:AG:96:LEU:HD12	1.90	0.71
8:AH:76:ILE:CD1	8:AH:142:LEU:HD13	2.21	0.71
9:AI:14:LEU:HD22	9:AI:18:GLN:OE1	1.91	0.71
10:AJ:6:ARG:HH11	10:AJ:6:ARG:N	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:77:SER:HA	10:AJ:85:TYR:O	1.91	0.71
14:AN:111:ASP:OD2	14:AN:113:PRO:CD	2.35	0.71
15:AO:37:CYS:O	15:AO:79:GLU:O	2.09	0.71
15:AO:24:VAL:CG2	15:AO:97:ARG:HG2	2.20	0.71
17:AQ:16:PHE:O	17:AQ:18:VAL:N	2.24	0.71
51:B3:56:VAL:HB	51:B3:61:ARG:CZ	2.20	0.71
52:B4:17:ASP:C	52:B4:21:SER:HG	1.93	0.71
25:BA:2344:U:OP1	53:B5:38:LYS:HE2	1.90	0.71
54:B6:43:THR:HG23	54:B6:46:VAL:HG11	1.73	0.71
25:BA:1011:G:C6	25:BA:1013:C:C5	2.79	0.71
25:BA:990:A:N6	25:BA:1186:G:N3	2.39	0.71
25:BA:1675:C:O2	25:BA:1676:A:C1'	2.39	0.71
25:BA:1775:U:C4	25:BA:1776:G:C8	2.78	0.71
25:BA:1870:C:H2'	25:BA:1870:C:O2	1.90	0.71
25:BA:1914:C:C2	25:BA:1915:U:H5	2.07	0.71
25:BA:211:A:O2'	25:BA:212:G:H5'	1.91	0.71
25:BA:2160:G:H2'	25:BA:2161:C:C6	2.26	0.71
25:BA:2407:G:H21	25:BA:2408:U:C1'	2.04	0.71
2:AC:75:C:N4	25:BA:2451:A:H4'	2.02	0.71
25:BA:2506:U:O2'	25:BA:2507:C:H5'	1.89	0.71
25:BA:2512:C:OP1	29:BE:122:PHE:HB3	1.91	0.71
25:BA:2550:G:H5'	25:BA:2550:G:C8	2.23	0.71
25:BA:30:G:H2'	25:BA:31:C:H6	1.56	0.71
25:BA:389:G:C8	25:BA:2413:G:H4'	2.26	0.71
25:BA:482:A:N3	25:BA:482:A:C2'	2.52	0.71
25:BA:570:G:C6	25:BA:2030:A:C2	2.78	0.71
25:BA:685:A:H5''	25:BA:686:G:N2	2.05	0.71
25:BA:809:G:O4'	25:BA:1254:A:H1'	1.91	0.71
27:BC:64:LEU:HB3	27:BC:188:ASN:OD1	1.90	0.71
28:BD:151:LYS:HB2	28:BD:154:LYS:CE	2.19	0.71
28:BD:13:ARG:HD3	28:BD:22:SER:HB2	1.73	0.71
25:BA:2052:G:O2'	29:BE:143:ASN:O	2.08	0.71
29:BE:23:VAL:HG23	29:BE:184:VAL:CG2	2.21	0.71
29:BE:54:GLN:CB	29:BE:57:LYS:HZ2	2.03	0.71
29:BE:63:LEU:O	29:BE:66:HIS:ND1	2.17	0.71
30:BF:168:ARG:CG	30:BF:169:ASN:H	2.03	0.71
30:BF:121:GLY:HA3	30:BF:191:ARG:HE	1.54	0.71
31:BG:170:ARG:HG2	31:BG:170:ARG:HH11	1.55	0.71
31:BG:34:LEU:HD12	31:BG:34:LEU:O	1.91	0.71
32:BH:97:ARG:H	32:BH:104:GLU:HB2	1.56	0.71
32:BH:153:LYS:H	32:BH:154:PRO:HD2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:66:GLY:O	32:BH:69:ARG:HG2	1.91	0.71
36:BN:116:SER:O	36:BN:119:PRO:HD3	1.90	0.71
36:BN:97:ARG:NH1	36:BN:98:VAL:O	2.20	0.71
37:BO:76:LYS:HZ2	37:BO:112:LEU:HD13	1.55	0.71
38:BP:32:TYR:HB2	38:BP:105:GLU:O	1.90	0.71
33:BK:110:ASP:OD2	33:BK:112:LYS:HB2	1.91	0.71
1:AA:435:C:C2'	1:AA:436:C:H5'	2.20	0.71
1:AA:1004:A:C8	1:AA:1036:G:O6	2.44	0.71
27:BC:68:LEU:CG	27:BC:69:GLY:H	2.04	0.71
3:AD:67:C:C2'	3:AD:68:U:H5'	2.20	0.71
1:AA:1084:G:C5	1:AA:1085:U:H5	2.08	0.70
1:AA:1196:U:C5'	1:AA:1197:G:C5'	2.69	0.70
1:AA:494:U:H2'	1:AA:495:A:H5'	1.71	0.70
1:AA:529:G:C6	15:AO:49:ASN:ND2	2.59	0.70
1:AA:589:C:H2'	1:AA:590:C:C6	2.26	0.70
5:AE:12:GLU:O	5:AE:14:GLY:N	2.23	0.70
6:AF:30:ARG:HD3	6:AF:30:ARG:H	1.56	0.70
6:AF:42:LEU:HD23	6:AF:45:LYS:HD2	1.73	0.70
7:AG:98:GLU:CB	7:AG:189:PRO:HG3	2.21	0.70
8:AH:48:ALA:HB1	8:AH:53:LEU:HB2	1.72	0.70
10:AJ:80:VAL:HG12	10:AJ:81:GLY:N	2.06	0.70
11:AK:46:LYS:HZ2	11:AK:64:LYS:CA	2.03	0.70
14:AN:96:ARG:O	14:AN:100:ALA:HB2	1.91	0.70
16:AP:23:TYR:O	16:AP:66:LEU:HD12	1.91	0.70
17:AQ:26:ARG:HB3	17:AQ:43:CYS:HB2	1.72	0.70
20:AT:52:LYS:HB2	20:AT:52:LYS:NZ	2.06	0.70
21:AU:44:LEU:HG	21:AU:45:SER:N	2.00	0.70
22:AV:12:ASP:O	22:AV:16:LEU:HD22	1.91	0.70
23:AW:13:LEU:HD12	23:AW:13:LEU:H	1.55	0.70
24:AX:4:GLY:C	24:AX:6:ARG:N	2.43	0.70
51:B3:56:VAL:HG12	51:B3:57:GLU:H	1.56	0.70
51:B3:59:PHE:HE1	51:B3:60:GLN:HE21	1.37	0.70
52:B4:51:TYR:C	52:B4:51:TYR:CD2	2.64	0.70
53:B5:33:LYS:O	53:B5:34:LEU:C	2.29	0.70
56:B8:29:ASN:OD1	56:B8:31:LYS:HB2	1.91	0.70
25:BA:1005:C:N3	25:BA:1137:G:N2	2.39	0.70
25:BA:1336:A:H2'	25:BA:1337:G:C8	2.26	0.70
25:BA:1343:G:H2'	25:BA:1384:A:C2	2.24	0.70
25:BA:1716:U:O2	25:BA:1716:U:C2'	2.38	0.70
25:BA:1779:U:H3'	25:BA:1779:U:H6	1.56	0.70
25:BA:1363:C:O2'	25:BA:1809:A:C8	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1899:G:C2'	25:BA:1900:A:H5''	2.20	0.70
25:BA:1926:U:HO2'	25:BA:1927:A:H8	1.38	0.70
25:BA:1967:C:O2	25:BA:1967:C:H2'	1.91	0.70
25:BA:2028:U:H2'	25:BA:2029:G:C8	2.25	0.70
25:BA:2114:A:H2'	25:BA:2115:G:H5'	1.73	0.70
25:BA:2310:A:O5'	25:BA:2310:A:H8	1.72	0.70
25:BA:2432:A:N6	25:BA:2433:A:N6	2.38	0.70
25:BA:241:A:C1'	25:BA:243:U:C6	2.72	0.70
25:BA:2472:G:H1'	25:BA:2478:A:H61	1.56	0.70
25:BA:2575:C:H5''	25:BA:2576:G:OP2	1.91	0.70
25:BA:2602:A:HO2'	25:BA:2603:G:P	2.14	0.70
25:BA:2733:A:H2'	25:BA:2734:A:O4'	1.90	0.70
25:BA:751:A:N1	25:BA:789:A:N7	2.38	0.70
25:BA:780:G:N3	25:BA:785:G:O6	2.24	0.70
25:BA:783:A:C2'	25:BA:784:A:H5'	2.21	0.70
25:BA:775:G:N2	25:BA:787:U:C2'	2.54	0.70
25:BA:687:C:H1'	25:BA:788:A:H5'	1.72	0.70
26:BB:48:A:H2'	26:BB:49:C:C6	2.26	0.70
26:BB:63:G:H2'	26:BB:64:C:C6	2.26	0.70
27:BC:60:GLY:O	27:BC:61:THR:HB	1.91	0.70
28:BD:91:ARG:NH2	28:BD:198:ASN:HD22	1.88	0.70
28:BD:8:PRO:HD3	28:BD:26:LYS:O	1.90	0.70
28:BD:70:TRP:N	28:BD:70:TRP:CD2	2.51	0.70
29:BE:104:VAL:CG2	29:BE:198:VAL:HG22	2.21	0.70
35:BM:66:LYS:CA	35:BM:87:LEU:HD11	2.20	0.70
38:BP:38:GLU:N	38:BP:39:PRO:HD3	2.06	0.70
41:BS:93:ARG:HB2	41:BS:95:ARG:NH1	2.06	0.70
42:BT:33:ARG:NH1	42:BT:33:ARG:CB	2.54	0.70
42:BT:74:LEU:HB3	42:BT:78:THR:OG1	1.91	0.70
43:BU:43:GLU:O	43:BU:44:LYS:HD3	1.91	0.70
44:BV:23:LEU:HD11	52:B4:27:PRO:HB3	1.73	0.70
46:BX:13:VAL:HG13	46:BX:70:SER:HB3	1.72	0.70
47:BY:79:ARG:O	47:BY:80:ARG:HG3	1.91	0.70
33:BK:128:LEU:CD2	33:BK:129:THR:H	2.04	0.70
34:BL:24:GLY:O	34:BL:34:ILE:HG12	1.91	0.70
25:BA:2152:G:H2'	25:BA:2153:G:C8	2.26	0.70
1:AA:1269:A:H8	1:AA:1270:C:H1'	1.56	0.70
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.26	0.70
1:AA:560:U:O4'	1:AA:566:G:N2	2.23	0.70
1:AA:69:G:H2'	1:AA:73:G:H8	1.54	0.70
1:AA:652:U:O4	1:AA:752:G:H2'	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:880:C:O2'	1:AA:881:G:H5'	1.89	0.70
7:AG:145:GLU:HG2	7:AG:184:LYS:HE2	1.73	0.70
18:AR:11:VAL:HA	18:AR:14:GLU:OE2	1.91	0.70
22:AV:41:VAL:HB	22:AV:42:PRO:CD	2.17	0.70
45:BW:7:VAL:CG2	49:B1:31:ARG:HH12	2.04	0.70
51:B3:44:THR:CG2	51:B3:45:GLY:N	2.53	0.70
55:B7:4:MET:SD	55:B7:62:LEU:HD12	2.31	0.70
56:B8:7:VAL:HG22	56:B8:34:GLN:HB3	1.74	0.70
25:BA:1297:C:O2'	25:BA:1298:C:H5'	1.90	0.70
25:BA:1735:C:C4	25:BA:1741:C:N4	2.59	0.70
25:BA:740:U:C2	25:BA:1784:A:C8	2.79	0.70
25:BA:1906:G:C2	25:BA:1907:G:N7	2.58	0.70
25:BA:2052:G:O5'	29:BE:141:ILE:CD1	2.38	0.70
25:BA:2314:C:H2'	25:BA:2315:G:C8	2.22	0.70
25:BA:2459:A:H3'	25:BA:2460:U:C6	2.26	0.70
25:BA:2579:C:C6	25:BA:2579:C:H5''	2.26	0.70
25:BA:2597:G:O4'	28:BD:242:ARG:NE	2.24	0.70
25:BA:270(U):C:H2'	25:BA:270(V):G:O4'	1.90	0.70
25:BA:2879:C:H5'	25:BA:2880:C:OP1	1.91	0.70
25:BA:290:G:N2	25:BA:351:G:C2	2.59	0.70
25:BA:311:A:H3'	25:BA:312:G:C8	2.25	0.70
25:BA:328:U:O2	25:BA:328:U:H2'	1.91	0.70
25:BA:363(D):G:N2	25:BA:363(E):U:H1'	2.06	0.70
25:BA:975:G:C6	25:BA:976:C:C5	2.78	0.70
27:BC:19:ILE:HG23	27:BC:223:ARG:CB	2.21	0.70
28:BD:36:PRO:HB2	28:BD:64:ILE:HG21	1.73	0.70
29:BE:102:VAL:HG23	29:BE:198:VAL:HG13	1.72	0.70
29:BE:157:ALA:O	29:BE:160:TYR:HE1	1.74	0.70
30:BF:135:LYS:HD2	30:BF:138:GLU:OE2	1.91	0.70
30:BF:137:LYS:NZ	30:BF:137:LYS:HA	2.07	0.70
25:BA:598:G:O2'	30:BF:31:HIS:CE1	2.44	0.70
31:BG:49:ASP:O	31:BG:53:LEU:HD13	1.91	0.70
26:BB:43:C:C4'	31:BG:98:ARG:HH12	2.03	0.70
36:BN:47:ILE:O	36:BN:48:PRO:C	2.28	0.70
37:BO:13:ASN:OD1	37:BO:17:LYS:HD2	1.90	0.70
38:BP:36:ALA:O	38:BP:100:GLY:HA2	1.92	0.70
38:BP:16:ARG:HG2	38:BP:73:PRO:HD2	1.73	0.70
38:BP:55:VAL:HG22	38:BP:63:LYS:HZ3	1.56	0.70
38:BP:7:MET:H	38:BP:70:PRO:HG2	1.54	0.70
40:BR:67:ARG:O	40:BR:71:ARG:HG3	1.92	0.70
25:BA:994:C:H3'	42:BT:54:LYS:NZ	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:39:LEU:O	43:BU:54:GLY:C	2.29	0.70
45:BW:33:LYS:N	45:BW:77:LYS:HZ3	1.89	0.70
46:BX:2:ARG:O	46:BX:30:VAL:O	2.08	0.70
47:BY:151:HIS:HA	47:BY:171:ILE:H	1.56	0.70
47:BY:116:VAL:HA	47:BY:177:PRO:HD3	1.73	0.70
25:BA:1083:U:HO2'	25:BA:1084:A:H8	1.36	0.70
1:AA:1540:U:H2'	1:AA:1541:U:C5	2.26	0.70
1:AA:1152:A:O2'	1:AA:1153:C:H5'	1.91	0.70
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.56	0.70
1:AA:1432:G:H5'	41:BS:111:ARG:HH11	1.56	0.70
1:AA:1493:A:O2'	1:AA:1494:G:O5'	2.09	0.70
1:AA:186:C:O2'	23:AW:85:MET:SD	2.47	0.70
1:AA:609:A:C4	1:AA:610:G:C8	2.78	0.70
1:AA:647:C:C2	1:AA:648:A:C8	2.79	0.70
1:AA:724:G:O2'	1:AA:725:G:H5'	1.91	0.70
1:AA:761:G:H5'	20:AT:103:GLY:H	1.54	0.70
6:AF:134:ILE:HG23	6:AF:151:VAL:CG1	2.20	0.70
10:AJ:107:ALA:O	10:AJ:110:GLN:HB2	1.90	0.70
15:AO:102:ARG:O	15:AO:104:VAL:N	2.25	0.70
16:AP:22:ILE:HB	16:AP:25:ILE:HD12	1.73	0.70
20:AT:27:PHE:CE1	20:AT:36:ILE:HD11	2.27	0.70
20:AT:55:ASP:HA	20:AT:78:GLU:O	1.92	0.70
21:AU:21:LYS:HD2	21:AU:55:ARG:O	1.91	0.70
21:AU:46:GLU:CB	21:AU:85:LEU:HD13	2.17	0.70
23:AW:11:SER:HA	23:AW:13:LEU:CD1	2.21	0.70
51:B3:24:THR:C	51:B3:25:TYR:CD2	2.64	0.70
53:B5:25:LYS:NZ	55:B7:35:GLN:CB	2.54	0.70
25:BA:2539:C:H4'	56:B8:2:LYS:HD2	1.72	0.70
25:BA:1139:G:O2'	25:BA:1143:A:C5'	2.37	0.70
25:BA:1270:C:O4'	25:BA:1325:G:O6	2.07	0.70
25:BA:1944:U:C1'	25:BA:1955:U:C1'	2.68	0.70
25:BA:2287:A:C2'	25:BA:2288:A:O5'	2.40	0.70
25:BA:2296:U:O4	40:BR:9:ARG:NH1	2.23	0.70
25:BA:2373:G:O2'	25:BA:2374:C:O5'	2.09	0.70
25:BA:2077:A:C4	25:BA:2435:A:N7	2.59	0.70
25:BA:2507:C:C5'	25:BA:2573:C:H41	2.04	0.70
25:BA:2597:G:N1	25:BA:2598:A:C2	2.60	0.70
25:BA:2602:A:C1'	48:BZ:2:ALA:HB2	2.21	0.70
25:BA:2712:U:C2'	25:BA:2712(A):A:C5'	2.69	0.70
25:BA:2777:G:O5'	25:BA:2777:G:H8	1.73	0.70
25:BA:2794:C:H2'	25:BA:2795:G:OP1	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2805:G:N7	25:BA:2807:G:C8	2.58	0.70
25:BA:385:C:H6	25:BA:385:C:O5'	1.73	0.70
25:BA:457:A:H1'	25:BA:459:U:C4	2.26	0.70
26:BB:100:G:C5	26:BB:101:A:N7	2.60	0.70
26:BB:62:C:O2'	26:BB:63:G:H5'	1.91	0.70
27:BC:53:ARG:O	27:BC:55:ASP:N	2.24	0.70
28:BD:176:ARG:CG	28:BD:176:ARG:HH11	1.98	0.70
29:BE:172:VAL:HG23	29:BE:172:VAL:O	1.92	0.70
29:BE:185:LYS:O	29:BE:185:LYS:CG	2.39	0.70
31:BG:74:LYS:HD3	31:BG:87:PRO:HG3	1.73	0.70
32:BH:107:VAL:HG13	32:BH:152:ARG:HD3	1.72	0.70
35:BM:86:PRO:C	35:BM:89:LYS:HE3	2.10	0.70
36:BN:47:ILE:HD12	36:BN:52:VAL:HG22	1.72	0.70
38:BP:85:LYS:HD2	38:BP:86:GLY:H	1.56	0.70
25:BA:1999:C:C5'	39:BQ:2:ARG:HG3	2.21	0.70
41:BS:63:VAL:O	41:BS:63:VAL:CG1	2.38	0.70
44:BV:59:VAL:HA	44:BV:63:ASP:O	1.91	0.70
27:BC:210:ARG:HG2	27:BC:210:ARG:HH11	1.56	0.70
1:AA:1434:A:N6	1:AA:1467:G:N2	2.40	0.70
1:AA:1480:G:H2'	1:AA:1481:U:H5'	1.72	0.70
1:AA:186(C):G:H2'	1:AA:186(D):C:C6	2.26	0.70
1:AA:20:U:O4'	1:AA:572:A:N1	2.24	0.70
1:AA:478:A:H8	1:AA:478:A:O5'	1.74	0.70
1:AA:501:C:OP2	15:AO:124:LYS:NZ	2.24	0.70
1:AA:535:A:N3	1:AA:535:A:H2'	2.06	0.70
1:AA:688:G:O2'	1:AA:689:C:H5'	1.90	0.70
1:AA:8:A:OP1	1:AA:8:A:H3'	1.91	0.70
2:AC:69:C:C2	2:AC:70:G:C8	2.80	0.70
3:AD:76:A:H3'	25:BA:2432:A:H4'	1.72	0.70
5:AE:113:HIS:O	5:AE:117:GLU:HG3	1.91	0.70
5:AE:171:ALA:CA	5:AE:174:VAL:HB	2.21	0.70
7:AG:62:GLN:CA	7:AG:62:GLN:HE21	2.04	0.70
10:AJ:37:ASN:CG	10:AJ:38:LEU:N	2.45	0.70
14:AN:44:SER:O	14:AN:48:ILE:HG12	1.92	0.70
15:AO:60:LEU:HD13	15:AO:60:LEU:H	1.55	0.70
16:AP:15:VAL:HG11	16:AP:39:ILE:HD12	1.74	0.70
13:AM:50:ILE:HB	17:AQ:41:ARG:NE	2.05	0.70
20:AT:67:LYS:HA	20:AT:70:ARG:CZ	2.22	0.70
49:B1:7:GLU:HA	49:B1:10:LYS:HG2	1.73	0.70
49:B1:25:ARG:HB3	49:B1:25:ARG:CZ	2.21	0.70
49:B1:58:VAL:HG22	49:B1:59:LEU:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B2:4:LEU:HB3	50:B2:37:LEU:HD23	1.72	0.70
25:BA:107:C:H4'	25:BA:293:U:H1'	1.72	0.70
25:BA:1426:G:C8	25:BA:1427:A:N7	2.59	0.70
25:BA:2024:G:O2'	25:BA:2025:C:H5'	1.91	0.70
25:BA:2176:A:O2'	27:BC:44:HIS:HD2	1.74	0.70
25:BA:2259:G:H5'	25:BA:2427:C:H3'	1.74	0.70
25:BA:2453:A:C2	25:BA:2504:U:O2	2.44	0.70
25:BA:253:C:H2'	25:BA:254:G:C5'	2.22	0.70
25:BA:2051:A:C4	25:BA:2614:A:N6	2.57	0.70
25:BA:390:A:O2'	25:BA:391:G:N7	2.23	0.70
25:BA:565:C:H1'	25:BA:577:G:N2	2.06	0.70
25:BA:635:C:C2'	25:BA:636:G:H5'	2.20	0.70
25:BA:647:G:H2'	25:BA:648:G:H8	1.56	0.70
25:BA:733:G:N7	25:BA:761:A:N6	2.40	0.70
25:BA:960:A:H2'	25:BA:962:G:H8	1.56	0.70
25:BA:997:G:O2'	25:BA:998:C:C5'	2.40	0.70
27:BC:47:LEU:HG	27:BC:49:ILE:HG12	1.73	0.70
28:BD:159:ALA:CA	28:BD:196:VAL:HG11	2.20	0.70
28:BD:31:LYS:HD3	28:BD:83:GLU:HB3	1.72	0.70
29:BE:115:GLY:O	29:BE:116:VAL:C	2.30	0.70
29:BE:66:HIS:CD2	29:BE:71:GLY:H	2.03	0.70
29:BE:8:LYS:HD3	29:BE:9:VAL:HG22	1.74	0.70
31:BG:68:PRO:HB3	31:BG:72:ARG:NH1	2.00	0.70
32:BH:22:GLY:O	32:BH:37:VAL:HG13	1.91	0.70
36:BN:64:ARG:HH12	36:BN:68:GLU:H	1.36	0.70
37:BO:114:ILE:HG12	37:BO:130:PHE:HA	1.71	0.70
44:BV:4:LYS:HD3	44:BV:4:LYS:N	2.07	0.70
47:BY:30:ASN:HB2	47:BY:90:VAL:HG23	1.73	0.70
48:BZ:35:ASN:HD22	48:BZ:35:ASN:N	1.88	0.70
1:AA:435:C:H2'	1:AA:436:C:O4'	1.92	0.70
47:BY:179:ASP:O	47:BY:180:VAL:HG23	1.91	0.70
1:AA:1138:G:C6	1:AA:1140:C:C6	2.80	0.70
1:AA:1247:U:O2'	1:AA:1248:A:H5'	1.90	0.70
1:AA:1250:A:C6	1:AA:1251:A:C6	2.79	0.70
1:AA:1303:C:H2'	1:AA:1303:C:O2	1.91	0.70
1:AA:1358:U:H5'	17:AQ:34:TYR:HB3	1.73	0.70
1:AA:1401:G:O2'	1:AA:1402:C:H5'	1.91	0.70
1:AA:304:U:H2'	1:AA:305:G:C8	2.26	0.70
1:AA:520:A:N6	1:AA:529:G:N2	2.40	0.70
1:AA:572:A:O5'	1:AA:573:A:OP2	2.10	0.70
1:AA:795:C:H6	1:AA:795:C:O5'	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:60:ASP:O	5:AE:63:MET:HB3	1.90	0.70
10:AJ:118:VAL:HG12	10:AJ:122:HIS:NE2	2.07	0.70
10:AJ:68:ASN:ND2	10:AJ:128:ALA:O	2.24	0.70
11:AK:36:LEU:HD12	11:AK:48:TYR:HB2	1.73	0.70
13:AM:32:ALA:HB2	13:AM:75:ILE:C	2.12	0.70
14:AN:99:GLN:O	14:AN:102:GLY:HA2	1.92	0.70
16:AP:3:ARG:NH2	31:BG:139:LEU:CD2	2.54	0.70
20:AT:39:SER:O	20:AT:40:LYS:HG3	1.91	0.70
9:AI:89:MET:CG	21:AU:76:LEU:HD21	2.22	0.70
52:B4:50:GLY:HA3	52:B4:57:VAL:HG23	1.73	0.70
52:B4:7:PRO:O	52:B4:8:LYS:HG2	1.91	0.70
56:B8:15:LYS:O	56:B8:25:VAL:HG13	1.90	0.70
25:BA:1206:G:H3'	25:BA:1206:G:C8	2.25	0.70
25:BA:1364:G:C5	25:BA:1366:A:OP1	2.44	0.70
25:BA:1635:G:H2'	25:BA:1636:C:O4'	1.90	0.70
25:BA:1902:C:H2'	25:BA:1903:G:O4'	1.90	0.70
25:BA:1917:U:H2'	25:BA:1918:A:O4'	1.92	0.70
25:BA:1919:A:O5'	25:BA:1919:A:C8	2.44	0.70
25:BA:2207:C:C2	25:BA:2208:U:O4'	2.44	0.70
25:BA:2226:C:C2	28:BD:262:ARG:CZ	2.75	0.70
25:BA:2276:G:N2	25:BA:2277:G:H1'	2.06	0.70
25:BA:2291:U:H2'	25:BA:2292:C:H6	1.57	0.70
25:BA:401:A:H2'	25:BA:402:A:O4'	1.90	0.70
25:BA:475:U:H6	25:BA:509:C:N3	1.89	0.70
25:BA:519:U:H5''	44:BV:75:TYR:CB	2.21	0.70
25:BA:964:C:O5'	25:BA:964:C:H6	1.75	0.70
26:BB:82:G:N3	26:BB:83:G:C8	2.59	0.70
25:BA:2124:G:H21	27:BC:217:THR:C	1.94	0.70
28:BD:117:VAL:HG11	28:BD:128:GLY:C	2.11	0.70
28:BD:244:ARG:H	28:BD:245:PRO:CD	1.99	0.70
28:BD:54:ARG:CA	28:BD:219:PRO:HD2	2.21	0.70
29:BE:133:LYS:HE3	29:BE:138:PRO:CD	2.21	0.70
29:BE:105:THR:HB	29:BE:166:THR:OG1	1.90	0.70
29:BE:26:ILE:HB	29:BE:181:LEU:HD21	1.69	0.70
29:BE:183:LEU:HD21	41:BS:10:VAL:HG11	1.73	0.70
29:BE:50:GLY:C	29:BE:76:ARG:NE	2.43	0.70
35:BM:23:LEU:CD1	35:BM:63:THR:H	2.05	0.70
36:BN:47:ILE:HD11	36:BN:50:GLY:HA3	1.72	0.70
36:BN:75:SER:OG	41:BS:77:PRO:HG2	1.90	0.70
37:BO:130:PHE:N	37:BO:130:PHE:CD2	2.60	0.70
37:BO:114:ILE:CG2	37:BO:134:ALA:HB2	2.19	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:102:GLU:O	42:BT:105:VAL:HB	1.91	0.70
25:BA:19:C:OP1	42:BT:23:GLY:HA3	1.92	0.70
42:BT:33:ARG:HH11	42:BT:33:ARG:HB3	1.56	0.70
43:BU:11:GLN:OE1	43:BU:21:ARG:HB3	1.91	0.70
43:BU:52:VAL:HG12	43:BU:53:GLU:N	2.07	0.70
45:BW:8:ILE:C	45:BW:9:LEU:HD12	2.12	0.70
46:BX:65:ALA:HB3	46:BX:66:PRO:CD	2.21	0.70
33:BK:77:LEU:HD12	33:BK:142:VAL:CG1	2.16	0.70
25:BA:1083:U:O2'	25:BA:1084:A:H8	1.73	0.70
1:AA:1068:G:O2'	1:AA:1069:C:H5'	1.92	0.70
1:AA:1129:C:N4	1:AA:1139:G:C6	2.59	0.70
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.06	0.70
1:AA:198:G:N7	1:AA:220:G:N2	2.39	0.70
1:AA:278:G:N2	1:AA:279:A:H62	1.90	0.70
1:AA:399:G:H2'	1:AA:400:C:H6	1.56	0.70
1:AA:652:U:C5	1:AA:752:G:C4	2.80	0.70
1:AA:923:A:P	8:AH:21:ALA:HB2	2.32	0.70
1:AA:962:C:H2'	1:AA:963:G:O4'	1.92	0.70
10:AJ:87:VAL:HG21	10:AJ:154:TYR:HB2	1.73	0.70
11:AK:33:GLU:HG2	11:AK:59:LEU:HD21	1.73	0.70
11:AK:46:LYS:HZ1	11:AK:65:TYR:H	1.39	0.70
12:AL:11:LYS:O	12:AL:11:LYS:HG2	1.91	0.70
12:AL:70:LYS:N	12:AL:70:LYS:NZ	2.40	0.70
16:AP:4:ILE:O	16:AP:8:GLU:HB2	1.92	0.70
19:AS:12:LYS:HZ2	19:AS:13:HIS:H	1.38	0.70
19:AS:18:ARG:HB3	19:AS:20:VAL:HG23	1.73	0.70
20:AT:86:GLU:HA	20:AT:89:LEU:HD12	1.72	0.70
49:B1:20:VAL:HG21	49:B1:56:LEU:CD1	2.21	0.70
25:BA:1359:A:H2'	25:BA:1360:A:H5'	1.73	0.70
25:BA:140:A:N3	25:BA:1408:C:H1'	2.06	0.70
25:BA:1519:G:H4'	25:BA:1519:G:OP1	1.89	0.70
25:BA:1612:C:H2'	54:B6:3:ARG:HH21	1.56	0.70
25:BA:1625:C:H2'	25:BA:1626:G:C4'	2.22	0.70
25:BA:1731:G:N2	25:BA:1733:G:H22	1.89	0.70
25:BA:1826:G:C2'	25:BA:1827:C:H5'	2.21	0.70
25:BA:2455:G:O2'	25:BA:2456:C:H5'	1.90	0.70
25:BA:2681:C:N4	25:BA:2725:A:H62	1.89	0.70
25:BA:270(B):A:HO2'	25:BA:270(C):C:H6	1.40	0.70
25:BA:317:G:O2'	25:BA:318:C:H5'	1.92	0.70
25:BA:37:C:H5'	25:BA:451:C:H5''	1.73	0.70
25:BA:601:C:C1'	30:BF:104:LYS:HZ1	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:668:G:C5	25:BA:670:A:N7	2.60	0.70
26:BB:32:C:C3'	26:BB:33:G:H8	2.04	0.70
27:BC:153:ILE:HA	27:BC:156:ILE:HD12	1.72	0.70
30:BF:53:THR:O	30:BF:56:GLU:HG3	1.91	0.70
30:BF:39:TRP:CE3	30:BF:99:TYR:HB3	2.27	0.70
31:BG:53:LEU:HG	31:BG:72:ARG:NH2	2.04	0.70
32:BH:117:PRO:HD3	32:BH:123:PHE:CZ	2.26	0.70
35:BM:127:ASP:C	35:BM:129:PRO:HD2	2.12	0.70
36:BN:10:VAL:HG22	36:BN:11:ALA:N	2.06	0.70
36:BN:34:THR:H	36:BN:37:ASP:CG	1.94	0.70
36:BN:47:ILE:HD11	36:BN:50:GLY:CA	2.22	0.70
37:BO:121:LYS:N	37:BO:122:PRO:HD3	2.06	0.70
39:BQ:33:ARG:HE	52:B4:56:LYS:HE2	1.54	0.70
41:BS:107:ASP:C	41:BS:108:ARG:HD3	2.12	0.70
41:BS:20:PRO:HA	41:BS:22:PHE:CZ	2.26	0.70
25:BA:2875:C:O3'	41:BS:3:ARG:HD2	1.91	0.70
44:BV:25:ARG:CD	44:BV:74:ALA:HB3	2.19	0.70
47:BY:78:LYS:HE2	47:BY:84:GLU:CD	2.11	0.70
33:BK:114:LEU:HD22	33:BK:130:TYR:CB	2.22	0.70
33:BK:131:LYS:H	33:BK:131:LYS:HD2	1.55	0.70
32:BH:25:LYS:HE2	32:BH:27:LYS:HG2	1.73	0.70
26:BB:87:G:H21	26:BB:89:G:H8	1.39	0.70
1:AA:1253:G:H1	1:AA:1285:A:N6	1.86	0.70
1:AA:1329:A:H5''	16:AP:29:ARG:HG3	1.73	0.70
1:AA:1343:G:C2	1:AA:1344:C:C2	2.80	0.70
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.27	0.70
1:AA:279:A:OP2	20:AT:95:TYR:OH	2.09	0.70
1:AA:511:C:C2	1:AA:512:U:C5	2.79	0.70
1:AA:610:G:C2'	1:AA:611:A:H5'	2.22	0.70
1:AA:673:G:C2'	1:AA:674:G:C8	2.75	0.70
1:AA:892:A:H2'	1:AA:893:C:C6	2.27	0.70
1:AA:975:A:H4'	1:AA:976:G:H5'	1.73	0.70
2:AC:19:G:H3'	2:AC:20:U:O4	1.90	0.70
6:AF:189:ALA:CB	6:AF:196:LEU:HG	2.22	0.70
6:AF:153:VAL:HG12	6:AF:198:VAL:HG11	1.73	0.70
6:AF:40:ARG:HG2	6:AF:55:VAL:HG11	1.74	0.70
6:AF:131:ARG:NH1	8:AH:51:VAL:HG23	2.06	0.70
10:AJ:111:ARG:CZ	10:AJ:112:PRO:HD2	2.22	0.70
12:AL:23:ASN:O	12:AL:59:PHE:N	2.24	0.70
12:AL:93:ARG:NH2	12:AL:97:LYS:HG2	2.06	0.70
14:AN:99:GLN:O	14:AN:105:VAL:HG21	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:7:ILE:N	15:AO:7:ILE:HD13	2.07	0.70
1:AA:1230:C:O2'	16:AP:126:LYS:HE2	1.92	0.70
18:AR:29:VAL:HG11	18:AR:81:LEU:CD2	2.11	0.70
18:AR:54:ARG:HD3	18:AR:55:GLY:H	1.55	0.70
18:AR:7:GLU:CB	18:AR:10:LYS:HE3	2.22	0.70
21:AU:30:ASP:OD1	21:AU:32:ARG:HB2	1.91	0.70
23:AW:51:GLU:HA	23:AW:54:LYS:CG	2.22	0.70
1:AA:261:U:O4	23:AW:79:ARG:NH2	2.24	0.70
25:BA:1619:G:H21	54:B6:1:MET:H3	1.37	0.70
25:BA:1155:A:OP1	42:BT:55:ARG:HG2	1.91	0.70
25:BA:1508:A:H5''	25:BA:1510:A:C6	2.25	0.70
25:BA:1513:C:H6	25:BA:1513:C:H5''	1.57	0.70
25:BA:1669:A:H2'	25:BA:1670:C:H5'	1.74	0.70
25:BA:1863:G:H2'	25:BA:1864:U:H6	1.53	0.70
25:BA:1907:G:H2'	25:BA:1908:C:H6	1.56	0.70
25:BA:1997:G:C6	25:BA:1998:G:C6	2.79	0.70
25:BA:2397:G:H2'	25:BA:2398:U:H6	1.57	0.70
25:BA:2579:C:O2'	29:BE:132:HIS:HE1	1.73	0.70
25:BA:351:G:H1'	25:BA:352:G:N7	2.07	0.70
25:BA:459:U:O2'	25:BA:460:A:O5'	2.09	0.70
25:BA:653:A:O5'	25:BA:654:A:H4'	1.92	0.70
25:BA:741:G:H2'	25:BA:742:G:H8	1.57	0.70
25:BA:946:G:C6	25:BA:972:G:N2	2.60	0.70
28:BD:48:ARG:O	28:BD:49:ILE:HG13	1.91	0.70
28:BD:54:ARG:HB3	28:BD:218:ARG:HD2	1.73	0.70
28:BD:33:LEU:HD11	28:BD:61:LEU:HD13	1.74	0.70
29:BE:8:LYS:HD2	41:BS:3:ARG:HG3	1.72	0.70
30:BF:156:LEU:HD12	30:BF:167:ALA:HB1	1.74	0.70
36:BN:1:MET:HG3	36:BN:2:ILE:CG1	2.21	0.70
38:BP:64:ILE:HA	38:BP:106:VAL:O	1.92	0.70
41:BS:103:ARG:HB3	41:BS:107:ASP:OD1	1.92	0.70
42:BT:52:ARG:HA	42:BT:55:ARG:NE	2.06	0.70
42:BT:66:ASN:HB3	42:BT:70:ARG:HE	1.57	0.70
43:BU:2:PHE:HB2	43:BU:13:ARG:HH22	1.55	0.70
44:BV:82:LEU:HD12	44:BV:84:ARG:HD2	1.73	0.70
25:BA:1074:G:C5	25:BA:1075:C:N4	2.60	0.70
25:BA:1059:G:N2	34:BL:130:SER:HB3	2.07	0.70
1:AA:1196:U:C6	1:AA:1196:U:H3'	2.27	0.70
1:AA:1273:G:H2'	1:AA:1274:G:O4'	1.90	0.70
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.56	0.70
1:AA:828:A:N6	1:AA:858:G:O2'	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:909:A:H2'	1:AA:910:C:C5'	2.22	0.70
1:AA:943:U:H2'	1:AA:944:G:H5'	1.74	0.70
5:AE:127:ILE:HG22	5:AE:128:GLU:N	2.06	0.70
5:AE:15:VAL:CG2	5:AE:209:ARG:HH11	2.04	0.70
6:AF:59:ARG:CZ	6:AF:64:VAL:HA	2.21	0.70
14:AN:44:SER:H	14:AN:47:VAL:HB	1.56	0.70
15:AO:60:LEU:HD13	15:AO:64:TYR:HB3	1.71	0.70
19:AS:20:VAL:HG12	19:AS:21:VAL:N	2.06	0.70
20:AT:75:ARG:NH2	20:AT:77:VAL:HG13	1.99	0.70
21:AU:39:VAL:HA	21:AU:42:ARG:HD2	1.73	0.70
50:B2:23:LEU:HA	50:B2:28:LEU:HD12	1.74	0.70
54:B6:10:ARG:C	54:B6:14:LYS:HG3	2.12	0.70
56:B8:1:MET:N	56:B8:35:ARG:HH21	1.89	0.70
25:BA:1028:A:OP2	25:BA:1126:A:N6	2.16	0.70
25:BA:1125:G:H4'	56:B8:4:ARG:HB3	1.74	0.70
25:BA:1357:U:H2'	25:BA:1358:G:O4'	1.91	0.70
25:BA:1483:G:N3	25:BA:1483:G:H2'	2.05	0.70
25:BA:1626:G:N2	25:BA:1634:A:H1'	2.06	0.70
25:BA:1710:C:O2'	25:BA:1711:C:H5'	1.92	0.70
25:BA:1999:C:C2	25:BA:2000:G:C8	2.80	0.70
25:BA:966:G:O2'	25:BA:2267:A:N6	2.25	0.70
25:BA:2321:G:N2	25:BA:2322:A:C8	2.60	0.70
25:BA:2393:A:H5"	37:BO:56:SER:CA	2.21	0.70
25:BA:411:G:C6	25:BA:2407:G:N7	2.59	0.70
25:BA:2747:G:C2	25:BA:2754:U:N3	2.59	0.70
25:BA:2756:U:N3	25:BA:2758:A:N6	2.39	0.70
25:BA:1710:C:H1'	25:BA:2858:C:H42	1.57	0.70
25:BA:735:A:H3'	25:BA:735:A:C8	2.27	0.70
26:BB:55:U:O2'	26:BB:56:G:H5'	1.92	0.70
27:BC:120:MET:SD	27:BC:145:VAL:HG22	2.32	0.70
25:BA:1790:C:O2'	28:BD:213:ARG:NH2	2.25	0.70
29:BE:97:LYS:HB3	29:BE:100:GLU:OE2	1.92	0.70
29:BE:147:PRO:HB2	29:BE:149:ARG:HD2	1.73	0.70
30:BF:44:ARG:O	30:BF:45:ARG:O	2.09	0.70
30:BF:6:VAL:HB	30:BF:18:ARG:NE	2.06	0.70
31:BG:170:ARG:CZ	31:BG:170:ARG:HB2	2.19	0.70
31:BG:19:LEU:CA	31:BG:22:ARG:HG2	2.21	0.70
31:BG:19:LEU:HD12	31:BG:19:LEU:H	1.55	0.70
31:BG:53:LEU:CB	31:BG:69:ALA:O	2.40	0.70
32:BH:29:PRO:O	32:BH:30:LYS:HB3	1.92	0.70
38:BP:118:LEU:CD1	38:BP:131:ILE:HG21	2.19	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:44:ASN:O	42:BT:47:TYR:HB2	1.92	0.70
42:BT:57:PHE:HD2	42:BT:60:LEU:HD22	1.53	0.70
43:BU:11:GLN:HB3	43:BU:21:ARG:HD2	1.73	0.70
45:BW:33:LYS:HB3	45:BW:33:LYS:NZ	2.05	0.70
25:BA:480:A:OP1	46:BX:44:ILE:HD11	1.92	0.70
47:BY:56:VAL:HB	47:BY:135:GLU:OE2	1.92	0.70
33:BK:69:LYS:CG	33:BK:70:LYS:N	2.55	0.70
34:BL:18:THR:HA	34:BL:38:VAL:HG21	1.74	0.70
1:AA:1324:A:O2'	1:AA:1325:C:H5'	1.92	0.70
1:AA:296:U:N3	1:AA:297:G:N7	2.40	0.70
1:AA:498:A:O2'	1:AA:500:G:C8	2.44	0.70
1:AA:737:A:H2'	1:AA:738:C:H6	1.56	0.70
1:AA:953:G:H4'	16:AP:124:PRO:O	1.90	0.70
2:AC:44:A:C2'	2:AC:45:G:H5'	2.21	0.70
6:AF:126:ARG:O	6:AF:127:ARG:HB2	1.92	0.70
11:AK:100:ILE:O	11:AK:101:PRO:C	2.30	0.70
13:AM:6:ILE:O	13:AM:71:LEU:HD13	1.91	0.70
14:AN:44:SER:N	14:AN:47:VAL:HG21	2.07	0.70
15:AO:86:ARG:HH12	15:AO:119:LYS:HG3	1.56	0.70
1:AA:1308:U:P	16:AP:99:ARG:HG3	2.31	0.70
20:AT:18:THR:O	20:AT:19:VAL:HG13	1.91	0.70
22:AV:36:ARG:HE	22:AV:51:VAL:HG12	1.57	0.70
23:AW:63:ILE:HG23	23:AW:72:LEU:HD11	1.73	0.70
49:B1:1:MET:H1	49:B1:2:ARG:NH1	1.89	0.70
49:B1:60:ASN:O	49:B1:64:ARG:HB2	1.92	0.70
51:B3:5:ILE:HG21	51:B3:60:GLN:CD	2.12	0.70
53:B5:9:LEU:HD22	53:B5:27:LYS:CG	2.22	0.70
54:B6:43:THR:O	54:B6:46:VAL:HB	1.92	0.70
25:BA:1026:U:H2'	25:BA:1026:U:O2	1.89	0.70
25:BA:1050:A:C2	25:BA:2751:G:H5'	2.26	0.70
25:BA:1143:A:C2	25:BA:1144:G:C5	2.80	0.70
25:BA:1359:A:C2'	25:BA:1360:A:H5'	2.22	0.70
25:BA:1372:U:O5'	25:BA:1372:U:H6	1.75	0.70
25:BA:1529:A:H8	25:BA:1530:G:C8	2.10	0.70
25:BA:1558:A:H2	25:BA:1560:G:N9	1.90	0.70
25:BA:1565:C:C5	28:BD:84:TYR:OH	2.42	0.70
25:BA:1712:C:C2'	25:BA:1716:U:H6	2.02	0.70
25:BA:1807:G:H1'	25:BA:1811:G:H22	1.57	0.70
25:BA:532:A:P	25:BA:2021:C:H41	2.15	0.70
25:BA:2344:U:H5'	25:BA:2373:G:H5'	1.73	0.70
25:BA:2394:C:P	37:BO:57:THR:HA	2.32	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2244:U:H1'	25:BA:2434:A:C5	2.26	0.70
25:BA:2639:A:H1'	25:BA:2778:A:N1	2.06	0.70
25:BA:2043:C:N3	25:BA:2777:G:N2	2.39	0.70
25:BA:32:C:H1'	25:BA:474:G:N2	2.07	0.70
25:BA:533:G:H22	25:BA:559:G:N2	1.90	0.70
25:BA:709:U:O2'	25:BA:710:G:H5'	1.92	0.70
25:BA:861:A:N7	25:BA:917:A:N6	2.40	0.70
25:BA:93:C:H2'	25:BA:94:G:C8	2.27	0.70
25:BA:93:C:H2'	25:BA:94:G:H8	1.56	0.70
25:BA:965:C:O2'	25:BA:966:G:H5'	1.92	0.70
27:BC:127:LEU:HD13	27:BC:131:LEU:HD11	1.73	0.70
27:BC:39:GLU:HG2	27:BC:41:VAL:HG22	1.74	0.70
28:BD:149:PRO:HD3	28:BD:186:HIS:CE1	2.27	0.70
28:BD:68:LYS:O	28:BD:69:ARG:HB2	1.91	0.70
29:BE:49:LEU:CD1	29:BE:51:PHE:H	2.04	0.70
32:BH:157:TYR:HD1	32:BH:158:HIS:HB2	1.57	0.70
32:BH:6:ARG:C	32:BH:69:ARG:HE	1.95	0.70
36:BN:111:PHE:O	36:BN:114:ILE:N	2.25	0.70
36:BN:25:LEU:HD23	36:BN:25:LEU:O	1.92	0.70
37:BO:117:GLU:HG2	37:BO:118:GLY:N	2.03	0.70
37:BO:125:VAL:O	37:BO:126:VAL:O	2.10	0.70
38:BP:37:LEU:H	38:BP:129:THR:HG22	1.55	0.70
39:BQ:94:TYR:O	39:BQ:117:VAL:HG12	1.92	0.70
39:BQ:54:LEU:CD1	39:BQ:57:ARG:HD3	2.22	0.70
39:BQ:74:LYS:NZ	39:BQ:74:LYS:HB2	2.06	0.70
40:BR:33:LYS:CD	40:BR:54:LEU:HD21	2.21	0.70
42:BT:30:LYS:O	42:BT:32:PHE:CD1	2.44	0.70
44:BV:77:ASP:OD2	44:BV:102:HIS:HB2	1.92	0.70
47:BY:94:GLU:N	47:BY:95:PRO:HD3	2.07	0.70
25:BA:1061:U:H3'	25:BA:1061:U:OP2	1.92	0.70
34:BL:68:VAL:HG11	34:BL:70:LYS:CE	2.17	0.70
25:BA:846:C:O2	25:BA:847:U:O4	2.10	0.70
1:AA:1202:G:O2'	1:AA:1203:C:H5'	1.91	0.70
1:AA:1236:A:H4'	1:AA:1304:G:C4'	2.19	0.70
1:AA:1429:C:H2'	1:AA:1430:C:C5	2.27	0.70
1:AA:511:C:C4	1:AA:541:G:N2	2.60	0.70
1:AA:697:U:H5'	1:AA:786:G:O2'	1.91	0.70
2:AC:19:G:H4'	2:AC:20:U:OP2	1.91	0.70
5:AE:56:ARG:CZ	5:AE:56:ARG:HB3	2.21	0.70
6:AF:87:LEU:HB2	6:AF:101:LEU:HD11	1.74	0.70
6:AF:51:GLY:O	6:AF:52:LEU:O	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:180:GLY:HA3	7:AG:182:LYS:HZ3	1.57	0.70
8:AH:46:GLY:C	8:AH:47:LYS:HD3	2.12	0.70
18:AR:7:GLU:CA	18:AR:10:LYS:HG2	2.21	0.70
18:AR:46:HIS:O	18:AR:48:LYS:N	2.24	0.70
18:AR:62:GLN:HG3	18:AR:66:LEU:HD21	1.74	0.70
22:AV:64:GLU:O	22:AV:67:VAL:HG23	1.92	0.70
55:B7:31:HIS:O	55:B7:32:LEU:HD23	1.92	0.70
25:BA:1119:C:H2'	25:BA:1120:G:C8	2.27	0.70
25:BA:1404:C:O2'	25:BA:1405:U:H5'	1.91	0.70
25:BA:1559:G:C6	25:BA:1560:G:C4'	2.75	0.70
25:BA:1990:C:C4	25:BA:1991:U:C4	2.80	0.70
25:BA:2179:C:H1'	27:BC:168:THR:HG21	1.71	0.70
25:BA:2455:G:C4	25:BA:2456:C:C5	2.79	0.70
25:BA:960:A:H5'	25:BA:2457:U:H4'	1.73	0.70
25:BA:2687:U:N3	25:BA:2688:U:C5	2.59	0.70
25:BA:2777:G:H4'	25:BA:2778:A:OP2	1.92	0.70
25:BA:411:G:C1'	25:BA:2407:G:OP1	2.40	0.70
25:BA:616:A:O2'	25:BA:617:G:H1'	1.92	0.70
25:BA:610:C:H42	25:BA:618(A):C:H42	1.37	0.70
25:BA:733:G:O6	25:BA:761:A:N7	2.24	0.70
27:BC:213:TYR:CD2	27:BC:223:ARG:HG3	2.27	0.70
27:BC:29:VAL:HG21	27:BC:41:VAL:HG11	1.72	0.70
28:BD:177:LEU:O	28:BD:178:PRO:O	2.08	0.70
28:BD:34:VAL:H	28:BD:104:TYR:HH	1.38	0.70
28:BD:63:ARG:HH11	28:BD:85:ASP:CB	2.02	0.70
29:BE:158:GLY:O	29:BE:160:TYR:CD1	2.45	0.70
29:BE:5:LEU:CD2	29:BE:7:VAL:HG12	2.20	0.70
31:BG:50:ALA:HB3	31:BG:51:ARG:NH2	2.06	0.70
31:BG:44:GLY:CA	31:BG:72:ARG:HB3	2.18	0.70
31:BG:74:LYS:CD	31:BG:87:PRO:HG3	2.21	0.70
32:BH:33:LEU:HD22	32:BH:75:ALA:CB	2.21	0.70
36:BN:26:LYS:HG3	36:BN:27:GLY:N	2.07	0.70
42:BT:54:LYS:HD2	42:BT:54:LYS:H	1.56	0.70
43:BU:40:LEU:HD21	43:BU:55:ALA:CB	2.09	0.70
44:BV:8:ARG:C	44:BV:102:HIS:HD2	1.96	0.70
45:BW:89:ILE:HG23	45:BW:92:LEU:CD2	2.14	0.70
46:BX:98:VAL:O	46:BX:100:ALA:O	2.09	0.70
34:BL:56:GLU:O	34:BL:67:PHE:HB3	1.92	0.70
34:BL:61:ALA:C	34:BL:63:ARG:N	2.44	0.70
28:BD:273:ARG:HH11	28:BD:273:ARG:CG	2.04	0.70
1:AA:1160:G:N7	1:AA:1181:G:C2	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:173:U:H5'	1:AA:197:A:O2'	1.92	0.69
1:AA:186(D):C:O2'	1:AA:186(E):C:H5'	1.92	0.69
1:AA:535:A:H4'	1:AA:536:C:OP2	1.92	0.69
1:AA:648:A:C2'	1:AA:649:G:H5'	2.20	0.69
2:AC:16:C:H5'	2:AC:60:U:C2'	2.22	0.69
2:AC:16:C:H5'	2:AC:60:U:H2'	1.74	0.69
5:AE:167:PRO:CD	5:AE:188:ALA:HA	2.21	0.69
5:AE:57:PHE:CD1	5:AE:199:TYR:CE1	2.65	0.69
6:AF:42:LEU:HA	6:AF:45:LYS:HD2	1.72	0.69
10:AJ:79:ARG:NH2	10:AJ:84:ASN:HB3	2.07	0.69
11:AK:100:ILE:CD1	11:AK:125:ARG:HG3	2.21	0.69
15:AO:37:CYS:HA	15:AO:58:VAL:HG22	1.73	0.69
16:AP:8:GLU:OE1	16:AP:10:PRO:HG3	1.92	0.69
18:AR:36:ILE:HG23	18:AR:37:ASN:HD22	1.56	0.69
18:AR:6:GLU:HG2	18:AR:7:GLU:OE2	1.91	0.69
20:AT:7:THR:OG1	20:AT:57:VAL:O	2.08	0.69
22:AV:52:TYR:OH	22:AV:55:LYS:HA	1.90	0.69
23:AW:100:ILE:O	23:AW:100:ILE:HG13	1.91	0.69
23:AW:57:ARG:NE	23:AW:100:ILE:HD12	2.05	0.69
51:B3:30:GLU:HB2	51:B3:32:TYR:OH	1.91	0.69
52:B4:17:ASP:O	52:B4:19:ARG:N	2.25	0.69
55:B7:38:GLY:C	55:B7:39:LYS:HE2	2.12	0.69
25:BA:134:C:N3	25:BA:146:G:N2	2.39	0.69
25:BA:120:U:C5	25:BA:150:C:H5	2.10	0.69
25:BA:1552:G:O2'	25:BA:1553:A:H5''	1.92	0.69
25:BA:1670:C:C2'	25:BA:1671:U:H5'	2.22	0.69
25:BA:1912:A:N6	25:BA:1919:A:C8	2.59	0.69
25:BA:574:C:H5	25:BA:2054:A:O3'	1.75	0.69
25:BA:2113:U:H2'	25:BA:2114:A:H8	1.56	0.69
25:BA:2126:A:C5	25:BA:2163:C:H4'	2.27	0.69
25:BA:2686:G:C4	25:BA:2687:U:C6	2.80	0.69
25:BA:2705:A:N7	25:BA:2706:G:N7	2.40	0.69
25:BA:2809:A:O4'	25:BA:2811:G:N7	2.23	0.69
25:BA:281:G:N2	25:BA:283:A:H5''	2.07	0.69
25:BA:400:G:H1	51:B3:63:TYR:HE2	1.37	0.69
25:BA:682:G:O2'	25:BA:683:C:H5'	1.92	0.69
25:BA:977:G:N7	25:BA:987:G:N2	2.40	0.69
27:BC:14:VAL:HG12	27:BC:16:PRO:HD3	1.73	0.69
28:BD:119:ALA:CB	28:BD:130:ALA:H	2.05	0.69
1:AA:773:G:H4'	28:BD:203:ASN:OD1	1.92	0.69
29:BE:201:THR:O	29:BE:202:LYS:HD3	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:52:VAL:HG11	32:BH:69:ARG:HB2	1.74	0.69
33:BK:21:VAL:HB	33:BK:26:ALA:CB	2.22	0.69
35:BM:74:ARG:HB2	35:BM:82:LEU:HD13	1.74	0.69
39:BQ:34:ILE:HG22	39:BQ:35:THR:N	2.06	0.69
40:BR:49:VAL:HG11	40:BR:77:ALA:HB2	1.74	0.69
41:BS:65:LYS:HZ3	41:BS:75:ILE:HD13	1.54	0.69
42:BT:49:HIS:CD2	42:BT:52:ARG:NH1	2.60	0.69
43:BU:67:GLY:O	43:BU:68:LYS:CB	2.40	0.69
33:BK:88:ILE:HD11	33:BK:123:LEU:CD1	2.22	0.69
33:BK:93:THR:HG22	33:BK:96:ASP:N	2.05	0.69
1:AA:1054:C:C2'	1:AA:1055:A:H5''	2.20	0.69
1:AA:1397:C:O2	1:AA:1397:C:H2'	1.91	0.69
1:AA:16:A:C1'	8:AH:17:ALA:HB3	2.21	0.69
1:AA:199:G:O2'	1:AA:200:G:H5'	1.92	0.69
1:AA:112:G:C5'	1:AA:389:A:H4'	2.21	0.69
1:AA:474:G:C5'	19:AS:81:ARG:HE	2.04	0.69
1:AA:862:C:C2	1:AA:863:U:H5	2.10	0.69
2:AC:16:C:O2'	2:AC:18:G:OP2	2.04	0.69
5:AE:175:ARG:HG2	5:AE:179:LYS:HE2	1.74	0.69
5:AE:27:LYS:HE2	5:AE:27:LYS:HA	1.74	0.69
6:AF:28:GLN:CD	6:AF:29:TYR:N	2.45	0.69
10:AJ:34:GLY:O	10:AJ:36:LYS:N	2.25	0.69
11:AK:101:PRO:O	11:AK:102:ARG:HB2	1.91	0.69
13:AM:45:ARG:HG2	13:AM:65:LEU:O	1.91	0.69
14:AN:30:VAL:O	14:AN:42:TRP:HB2	1.92	0.69
20:AT:50:LYS:HG2	20:AT:51:TYR:CD1	2.26	0.69
20:AT:59:ILE:CD1	20:AT:71:PHE:HB3	2.21	0.69
21:AU:80:PRO:HB2	21:AU:83:GLU:HG2	1.73	0.69
53:B5:25:LYS:HZ3	55:B7:35:GLN:HB3	1.57	0.69
55:B7:5:LYS:HA	55:B7:59:LYS:O	1.91	0.69
25:BA:1312:U:C3'	25:BA:1313:U:C6	2.75	0.69
25:BA:1329:U:H5''	25:BA:1330:C:H5	1.57	0.69
25:BA:1360:A:C8	25:BA:1361:G:N7	2.60	0.69
25:BA:1420:U:H2'	25:BA:1421:G:C8	2.26	0.69
25:BA:1503:U:H2'	25:BA:1504:C:C6	2.26	0.69
25:BA:1616:A:H5''	25:BA:1617:C:OP1	1.90	0.69
25:BA:181:A:H2'	25:BA:182:A:H8	1.56	0.69
25:BA:1859:A:H2	25:BA:1884:A:O2'	1.69	0.69
25:BA:2014:A:C4	25:BA:2015:A:C2	2.80	0.69
25:BA:2126:A:O4'	25:BA:2127:G:O4'	2.09	0.69
25:BA:2569:G:C2	25:BA:2570:G:C8	2.79	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:273:G:H2'	25:BA:273(A):G:C8	2.26	0.69
25:BA:2782:G:H2'	25:BA:2783:G:H8	1.56	0.69
25:BA:1750:G:N3	25:BA:2860:A:H2	1.90	0.69
25:BA:336:C:C2'	25:BA:337:C:H5'	2.16	0.69
25:BA:559:G:H2'	25:BA:560:C:O4'	1.91	0.69
25:BA:881:G:H2'	25:BA:882:G:O4'	1.91	0.69
26:BB:61:G:H2'	26:BB:62:C:C5	2.26	0.69
28:BD:106:ILE:O	28:BD:107:ALA:CB	2.40	0.69
28:BD:198:ASN:ND2	28:BD:201:HIS:CB	2.52	0.69
29:BE:102:VAL:CG2	29:BE:103:ASP:N	2.55	0.69
29:BE:114:ALA:HB1	29:BE:118:LYS:HB3	1.73	0.69
29:BE:58:ARG:HB3	29:BE:63:LEU:CD2	2.22	0.69
30:BF:9:ILE:HG23	30:BF:124:LEU:O	1.90	0.69
31:BG:47:LYS:HZ3	31:BG:73:ALA:N	1.90	0.69
32:BH:103:LEU:CD1	32:BH:115:VAL:HG11	2.22	0.69
32:BH:33:LEU:HD22	32:BH:35:VAL:HG13	1.72	0.69
33:BK:21:VAL:HG11	33:BK:30:LEU:CG	2.22	0.69
37:BO:46:LYS:CB	37:BO:49:ARG:HB2	2.20	0.69
25:BA:636:G:H22	37:BO:75:ILE:HG23	1.52	0.69
38:BP:81:VAL:HG12	38:BP:82:ARG:H	1.55	0.69
39:BQ:90:ARG:HH12	39:BQ:117:VAL:CG2	2.05	0.69
41:BS:95:ARG:CG	41:BS:96:ARG:H	2.03	0.69
43:BU:91:TYR:O	43:BU:92:THR:HB	1.92	0.69
44:BV:24:ILE:HD13	44:BV:36:LEU:HD22	1.73	0.69
47:BY:93:ASP:O	47:BY:94:GLU:HB2	1.91	0.69
48:BZ:19:LYS:HZ1	48:BZ:41:ARG:HH21	1.40	0.69
25:BA:1081:U:H5"	34:BL:122:ALA:HA	1.74	0.69
34:BL:23:VAL:HG11	34:BL:38:VAL:HG23	1.74	0.69
1:AA:562:C:O2	15:AO:15:ARG:HB3	1.92	0.69
3:AD:30:G:H2'	3:AD:31:A:H8	1.56	0.69
1:AA:1153:C:N4	1:AA:1154:G:O6	2.26	0.69
1:AA:1260:C:O5'	1:AA:1284:C:H4'	1.93	0.69
1:AA:1295:G:N2	1:AA:1302:U:H3	1.89	0.69
1:AA:900:A:N6	1:AA:901:A:N6	2.40	0.69
1:AA:972:C:OP2	13:AM:57:LYS:HD2	1.92	0.69
2:AC:74:C:C3'	2:AC:75:C:H5"	2.22	0.69
6:AF:101:LEU:HD23	6:AF:101:LEU:O	1.92	0.69
7:AG:29:PRO:C	7:AG:34:GLU:HG3	2.12	0.69
7:AG:15:GLU:OE2	7:AG:63:LYS:HB3	1.92	0.69
12:AL:73:GLN:O	12:AL:77:ILE:HG13	1.92	0.69
14:AN:33:THR:HB	14:AN:37:GLY:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:88:TYR:CA	20:AT:91:ARG:HH21	2.05	0.69
22:AV:11:VAL:O	22:AV:38:SER:HB2	1.92	0.69
23:AW:49:ALA:O	23:AW:53:LEU:HG	1.93	0.69
53:B5:17:LYS:HE3	53:B5:48:VAL:CG1	2.23	0.69
25:BA:1049:C:C4	25:BA:1050:A:N7	2.59	0.69
25:BA:1342:A:C1'	25:BA:1345:C:H41	2.04	0.69
25:BA:1510:A:N3	25:BA:1511:A:C2	2.55	0.69
25:BA:1797:C:N4	25:BA:1798:U:O4	2.25	0.69
25:BA:1904:G:O2'	25:BA:1905:C:H5'	1.92	0.69
25:BA:2122:U:C2'	25:BA:2123:G:H5''	2.22	0.69
25:BA:2123:G:N2	25:BA:2176:A:H1'	2.06	0.69
25:BA:2236:C:H5''	25:BA:2236:C:H6	1.56	0.69
25:BA:2406:U:O4	37:BO:64:LYS:HD2	1.92	0.69
25:BA:2555:U:H2'	25:BA:2556:C:C5'	2.22	0.69
25:BA:2572:A:H5''	25:BA:2574:G:H4'	1.74	0.69
25:BA:281:G:N9	25:BA:281:G:OP1	2.25	0.69
25:BA:323:G:C2	25:BA:333:G:H1'	2.27	0.69
25:BA:450:G:H3'	25:BA:451:C:H5'	1.75	0.69
25:BA:462:C:H42	25:BA:467:G:H1	1.37	0.69
25:BA:566:U:C5'	43:BU:82:ARG:NH2	2.56	0.69
25:BA:585:G:C6	25:BA:1251:C:C6	2.80	0.69
25:BA:612:G:N2	25:BA:617:G:N1	2.40	0.69
25:BA:618:G:C8	25:BA:618(A):C:C5	2.80	0.69
25:BA:653:A:C5'	25:BA:654:A:H4'	2.21	0.69
25:BA:656:G:C8	25:BA:656:G:OP2	2.46	0.69
25:BA:672:C:C5	37:BO:38:GLN:HB2	2.27	0.69
25:BA:747:U:HO2'	44:BV:88:ARG:HG3	1.56	0.69
25:BA:964:C:O2'	25:BA:2273:A:C8	2.45	0.69
27:BC:90:GLY:CA	27:BC:157:LYS:HD3	2.22	0.69
27:BC:7:TYR:CE2	27:BC:11:LEU:HD13	2.23	0.69
25:BA:1567:A:OP2	28:BD:86:PRO:HB3	1.90	0.69
29:BE:133:LYS:C	29:BE:137:HIS:CE1	2.66	0.69
31:BG:72:ARG:HD3	31:BG:88:ILE:HG23	1.74	0.69
32:BH:51:ARG:NE	32:BH:51:ARG:HA	2.07	0.69
36:BN:108:GLU:O	36:BN:109:LYS:HE2	1.92	0.69
36:BN:43:VAL:HG13	36:BN:54:GLU:OE2	1.92	0.69
37:BO:97:PRO:HB3	37:BO:102:ARG:HH11	1.56	0.69
37:BO:13:ASN:HB2	37:BO:17:LYS:CD	2.22	0.69
39:BQ:17:ARG:HH11	39:BQ:17:ARG:CB	2.04	0.69
39:BQ:5:LYS:HZ3	39:BQ:6:SER:N	1.91	0.69
39:BQ:56:LYS:O	39:BQ:88:ARG:NH2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BR:11:LYS:HG2	40:BR:15:ARG:NH2	2.07	0.69
40:BR:78:LEU:HG	40:BR:111:GLU:CD	2.11	0.69
41:BS:58:ASN:O	41:BS:60:THR:HG22	1.93	0.69
43:BU:4:ILE:HA	43:BU:12:TYR:CE2	2.27	0.69
45:BW:5:TYR:HB3	49:B1:24:LYS:NZ	2.08	0.69
47:BY:46:LYS:O	47:BY:49:ARG:CB	2.38	0.69
34:BL:17:ALA:CB	34:BL:38:VAL:HG13	2.22	0.69
1:AA:567:G:N2	1:AA:568:G:H1'	2.08	0.69
1:AA:608:A:C2	1:AA:609:A:O4'	2.45	0.69
1:AA:764:C:H3'	1:AA:765:G:C8	2.27	0.69
1:AA:963:G:H2'	1:AA:964:A:C8	2.27	0.69
5:AE:95:GLN:O	5:AE:97:TRP:N	2.24	0.69
6:AF:173:VAL:O	6:AF:175:LEU:HD12	1.92	0.69
7:AG:18:LYS:HG2	7:AG:33:MET:CB	2.19	0.69
11:AK:6:ILE:HD12	11:AK:85:ARG:CZ	2.22	0.69
15:AO:77:LEU:HD21	15:AO:107:ALA:CB	2.23	0.69
1:AA:668:G:HO2'	18:AR:46:HIS:CE1	2.11	0.69
18:AR:39:LEU:CD2	18:AR:56:LEU:HD22	2.22	0.69
21:AU:18:ARG:HH22	21:AU:21:LYS:HD3	1.58	0.69
50:B2:29:ARG:HB2	50:B2:30:ARG:CZ	2.21	0.69
25:BA:1047:G:H22	25:BA:1110:G:H2'	1.58	0.69
25:BA:1039:G:N2	25:BA:1115:G:H22	1.90	0.69
25:BA:1153:C:C2	25:BA:1154:G:N7	2.59	0.69
25:BA:1341:U:H5	25:BA:1397:U:C2	2.10	0.69
25:BA:1363:C:H2'	25:BA:1363:C:O2	1.91	0.69
25:BA:1476:C:N4	25:BA:1517:G:C8	2.60	0.69
25:BA:1625:C:H2'	25:BA:1626:G:H4'	1.73	0.69
25:BA:1813:G:H4'	28:BD:46:GLN:CG	2.22	0.69
25:BA:1858:G:N7	25:BA:1883:G:N1	2.40	0.69
25:BA:1977:A:H2'	25:BA:1978:A:H8	1.56	0.69
25:BA:2320:A:H5'	25:BA:2321:G:C5	2.28	0.69
25:BA:2331:G:N2	25:BA:2385:C:C4	2.61	0.69
25:BA:2519:U:C2	25:BA:2542:A:N1	2.60	0.69
25:BA:2576:G:H5''	25:BA:2577:A:OP1	1.92	0.69
25:BA:2886:G:H21	25:BA:2887:U:H1'	1.58	0.69
25:BA:341:G:C2'	25:BA:342:G:O4'	2.39	0.69
25:BA:457:A:C2	25:BA:470:A:H5'	2.28	0.69
25:BA:557:U:C2	25:BA:558:G:C8	2.80	0.69
25:BA:59:U:O5'	25:BA:59:U:H6	1.75	0.69
25:BA:611:C:H2'	25:BA:611:C:O2	1.93	0.69
25:BA:715:G:C2	25:BA:716:A:N1	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:809:G:C6	25:BA:810:U:H5	2.07	0.69
27:BC:75:LEU:HD11	27:BC:99:ILE:HG21	1.73	0.69
28:BD:8:PRO:CD	28:BD:26:LYS:O	2.40	0.69
28:BD:5:LYS:O	28:BD:27:THR:HG22	1.93	0.69
29:BE:154:LYS:O	29:BE:155:LYS:O	2.11	0.69
29:BE:2:LYS:HE2	29:BE:83:ASP:HB3	1.73	0.69
31:BG:39:ILE:HG23	31:BG:157:ILE:CG1	2.22	0.69
33:BK:32:PRO:CG	33:BK:33:ARG:HD2	2.22	0.69
35:BM:45:ASN:N	35:BM:45:ASN:OD1	2.25	0.69
36:BN:64:ARG:HH22	36:BN:68:GLU:N	1.90	0.69
38:BP:102:VAL:HG13	38:BP:104:PHE:CZ	2.27	0.69
40:BR:33:LYS:HG2	40:BR:54:LEU:CD2	2.22	0.69
35:BM:42:TRP:HE1	42:BT:64:ARG:HD3	1.57	0.69
43:BU:5:VAL:HG22	43:BU:39:LEU:HD23	1.73	0.69
43:BU:73:SER:OG	43:BU:89:GLN:CD	2.30	0.69
45:BW:10:ALA:O	45:BW:29:TRP:HB2	1.93	0.69
46:BX:29:GLU:OE1	46:BX:32:PRO:CG	2.40	0.69
46:BX:27:VAL:O	46:BX:35:TYR:HA	1.91	0.69
46:BX:7:VAL:CG2	46:BX:71:LYS:HG3	2.20	0.69
47:BY:45:ASP:O	47:BY:49:ARG:HD2	1.91	0.69
48:BZ:63:VAL:HG23	48:BZ:81:VAL:HG11	1.73	0.69
33:BK:108:THR:HG22	33:BK:109:ILE:N	2.07	0.69
25:BA:1086:A:H3'	25:BA:1087:G:H5'	1.73	0.69
25:BA:1085:A:O2'	25:BA:1086:A:OP2	2.10	0.69
34:BL:91:PRO:HB3	34:BL:134:MET:O	1.92	0.69
25:BA:2187:G:H2'	25:BA:2188:C:C6	2.27	0.69
1:AA:134:A:H1'	1:AA:325:A:C5	2.27	0.69
1:AA:777:A:H2'	1:AA:778:G:C8	2.26	0.69
1:AA:859:A:H2'	1:AA:860:A:O5'	1.92	0.69
1:AA:940:C:H2'	1:AA:941:G:C8	2.25	0.69
5:AE:15:VAL:HG23	5:AE:16:HIS:CE1	2.28	0.69
5:AE:184:VAL:C	5:AE:198:ASP:HB2	2.13	0.69
7:AG:173:TRP:CA	7:AG:186:LEU:HD21	2.19	0.69
11:AK:132:GLU:C	11:AK:133:LEU:HD23	2.12	0.69
11:AK:63:LEU:CG	11:AK:65:TYR:HE1	2.05	0.69
11:AK:97:VAL:HG13	11:AK:98:LYS:NZ	2.07	0.69
15:AO:46:LYS:C	15:AO:48:PRO:HD2	2.13	0.69
16:AP:13:LYS:HD3	16:AP:17:VAL:HG12	1.75	0.69
18:AR:40:SER:O	18:AR:43:LEU:HB2	1.93	0.69
18:AR:63:ARG:HH12	18:AR:87:ILE:CD1	2.04	0.69
23:AW:13:LEU:HD13	23:AW:17:ARG:HH21	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:85:MET:CB	23:AW:104:LEU:HD11	2.22	0.69
52:B4:41:PRO:O	52:B4:44:THR:OG1	2.10	0.69
25:BA:1009:A:C2	25:BA:1010:A:C2	2.80	0.69
25:BA:1204:A:N1	30:BF:187:VAL:C	2.45	0.69
25:BA:1250:G:O2'	25:BA:1251:C:P	2.50	0.69
25:BA:1634:A:C2'	25:BA:1635:G:OP1	2.40	0.69
25:BA:1668:A:C2'	25:BA:1669:A:OP2	2.40	0.69
25:BA:1835:G:O2'	25:BA:1836:C:H5'	1.93	0.69
25:BA:1913:A:H2'	25:BA:1916:A:H2	1.57	0.69
25:BA:2468:G:O2'	25:BA:2469:A:C8	2.44	0.69
25:BA:2482:G:C5	25:BA:2483:C:C5	2.81	0.69
25:BA:2681:C:C5	25:BA:2727:G:N2	2.60	0.69
25:BA:2832:U:C2	25:BA:2834:G:N2	2.60	0.69
25:BA:2861:G:O2'	25:BA:2862:G:H5'	1.92	0.69
25:BA:728:G:C6	25:BA:762:U:C3'	2.75	0.69
25:BA:690:G:O2'	25:BA:780:G:OP1	2.10	0.69
25:BA:938:G:N2	25:BA:939:G:C5	2.60	0.69
26:BB:15:A:H5'	26:BB:16:G:O5'	1.92	0.69
27:BC:4:GLY:C	27:BC:5:LYS:HD2	2.12	0.69
28:BD:134:ARG:HD3	28:BD:135:PHE:CE1	2.27	0.69
25:BA:2227:A:H5''	28:BD:260:ARG:HB2	1.73	0.69
29:BE:51:PHE:CE1	29:BE:76:ARG:N	2.60	0.69
30:BF:197:ASP:HA	30:BF:200:GLU:OE1	1.93	0.69
31:BG:39:ILE:HG23	31:BG:157:ILE:CB	2.23	0.69
35:BM:89:LYS:HA	35:BM:92:ALA:HB3	1.74	0.69
36:BN:12:ASP:C	36:BN:94:ARG:HD2	2.12	0.69
36:BN:33:ALA:HB2	36:BN:39:ILE:HG21	1.73	0.69
37:BO:74:GLU:HB2	37:BO:107:LYS:NZ	2.06	0.69
38:BP:76:LYS:HZ3	38:BP:79:LEU:HA	1.57	0.69
39:BQ:105:ARG:HA	39:BQ:105:ARG:NH1	2.07	0.69
39:BQ:20:LEU:HD13	39:BQ:21:TYR:N	2.07	0.69
41:BS:108:ARG:HH11	41:BS:108:ARG:N	1.89	0.69
42:BT:47:TYR:CB	42:BT:51:LYS:HE2	2.19	0.69
44:BV:42:ARG:HG3	44:BV:43:GLY:H	1.57	0.69
45:BW:50:LYS:NZ	45:BW:87:GLN:HB2	2.08	0.69
47:BY:120:ILE:HD12	47:BY:120:ILE:H	1.55	0.69
47:BY:45:ASP:O	47:BY:46:LYS:C	2.31	0.69
25:BA:1062:G:O6	25:BA:1077:A:C5	2.45	0.69
25:BA:1071:G:N3	25:BA:1089:G:H2'	2.08	0.69
34:BL:72:PRO:HG2	34:BL:77:LEU:HD11	1.74	0.69
25:BA:1963:U:O5'	25:BA:1963:U:C6	2.45	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:44:A:H2'	25:BA:45:G:H8	1.57	0.69
1:AA:1234:C:H1'	1:AA:1364:U:O2	1.92	0.69
1:AA:1339:A:H2'	1:AA:1340:A:C5'	2.20	0.69
1:AA:1529:G:C5'	1:AA:1530:G:OP2	2.40	0.69
1:AA:225:C:H2'	1:AA:226:G:H5'	1.75	0.69
1:AA:37:U:C4	1:AA:397:A:N1	2.53	0.69
1:AA:551:U:H2'	1:AA:552:U:H6	1.57	0.69
1:AA:733:A:C3'	1:AA:733:A:C8	2.76	0.69
1:AA:961:U:H5'	1:AA:984:C:H1'	1.75	0.69
5:AE:16:HIS:HA	5:AE:204:ASN:HB2	1.73	0.69
5:AE:69:LEU:HD13	5:AE:70:PHE:N	2.08	0.69
1:AA:15:G:H4'	8:AH:24:ARG:HH22	1.58	0.69
11:AK:104:ARG:O	11:AK:106:GLY:N	2.26	0.69
12:AL:6:GLY:HA2	12:AL:83:ARG:HB3	1.74	0.69
12:AL:70:LYS:HZ2	12:AL:70:LYS:N	1.90	0.69
13:AM:50:ILE:HA	13:AM:60:ARG:HG3	1.74	0.69
14:AN:41:THR:CG2	14:AN:71:LYS:HE3	2.23	0.69
14:AN:54:ARG:O	14:AN:56:GLY:N	2.26	0.69
16:AP:58:GLU:CA	16:AP:61:GLU:HB2	2.22	0.69
17:AQ:27:CYS:SG	17:AQ:43:CYS:N	2.65	0.69
20:AT:51:TYR:O	20:AT:52:LYS:HE3	1.93	0.69
55:B7:23:VAL:HG22	55:B7:48:PHE:HB2	1.75	0.69
25:BA:974:G:H1'	25:BA:1186:G:N7	2.07	0.69
25:BA:127:A:N6	54:B6:18:PHE:CZ	2.60	0.69
25:BA:1528:A:H8	25:BA:1529:A:C2	2.10	0.69
25:BA:1692:U:H1'	25:BA:1696:G:H21	1.56	0.69
25:BA:1910:G:C4	25:BA:1921:G:N2	2.60	0.69
25:BA:1997:G:C2	25:BA:1998:G:C4	2.81	0.69
25:BA:2090:G:C6	25:BA:2230:G:O6	2.46	0.69
25:BA:2231:C:H2'	25:BA:2232:U:C6	2.27	0.69
25:BA:2384:G:OP2	25:BA:2384:G:H8	1.74	0.69
25:BA:2522:U:H1'	25:BA:2543:G:H1	1.57	0.69
25:BA:312:G:O4'	25:BA:312:G:OP1	2.09	0.69
25:BA:223:A:C4	25:BA:422:A:N7	2.61	0.69
25:BA:613:U:H5'	25:BA:614:U:C5	2.26	0.69
25:BA:687:C:O2	25:BA:788:A:P	2.50	0.69
26:BB:109:G:N1	26:BB:110:G:C5	2.61	0.69
28:BD:186:HIS:O	28:BD:189:CYS:SG	2.42	0.69
28:BD:87:ASN:N	28:BD:87:ASN:ND2	2.37	0.69
25:BA:2821:A:H5''	29:BE:110:GLY:CA	2.21	0.69
35:BM:57:ALA:HB1	35:BM:99:LEU:CD2	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:65:PHE:O	38:BP:66:ILE:HG13	1.93	0.69
39:BQ:46:GLY:O	39:BQ:49:ASP:HB2	1.93	0.69
40:BR:62:LYS:CD	40:BR:64:GLU:HB3	2.21	0.69
25:BA:533:G:H5'	42:BT:24:TYR:HD2	1.56	0.69
44:BV:12:ILE:HD13	44:BV:12:ILE:N	2.03	0.69
45:BW:50:LYS:HB2	45:BW:84:ALA:HB2	1.74	0.69
46:BX:13:VAL:CB	46:BX:73:ARG:HH11	2.05	0.69
33:BK:111:PRO:HG2	33:BK:112:LYS:H	1.56	0.69
33:BK:125:GLU:HB3	33:BK:143:SER:CB	2.21	0.69
34:BL:132:ARG:HH21	34:BL:138:VAL:CG1	2.06	0.69
46:BX:86:ARG:CA	46:BX:91:GLU:HB3	2.18	0.69
25:BA:1573:G:O2'	25:BA:1574:C:H5'	1.92	0.69
1:AA:1192:C:C5	1:AA:1193:G:N9	2.61	0.69
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.25	0.69
1:AA:960:U:O2'	1:AA:1223:C:H4'	1.92	0.69
1:AA:1330:U:H4'	16:AP:23:TYR:CZ	2.28	0.69
1:AA:1347:G:H22	1:AA:1373:G:H2'	1.57	0.69
1:AA:1401:G:H2'	1:AA:1402:C:C5'	2.22	0.69
1:AA:264:U:O2	1:AA:264:U:C2'	2.40	0.69
1:AA:370:C:N3	1:AA:371:G:N7	2.39	0.69
1:AA:464:G:H8	1:AA:464:G:O5'	1.73	0.69
1:AA:373:A:N7	1:AA:482:A:N7	2.41	0.69
1:AA:594:G:C5	1:AA:595:G:N3	2.61	0.69
1:AA:745:C:H4'	1:AA:836:G:N2	2.08	0.69
1:AA:783:C:C2'	1:AA:784:C:H5'	2.20	0.69
1:AA:818:G:H3'	1:AA:819:A:H5'	1.74	0.69
1:AA:871:U:H4'	1:AA:872:A:OP1	1.90	0.69
1:AA:964:A:OP1	1:AA:1199:U:OP1	2.10	0.69
5:AE:78:GLN:NE2	5:AE:96:ARG:HH12	1.91	0.69
6:AF:108:ASN:HD22	6:AF:111:LEU:CD1	2.05	0.69
7:AG:148:VAL:H	7:AG:181:MET:HE2	1.56	0.69
10:AJ:42:ILE:HD13	10:AJ:116:ALA:CB	2.23	0.69
10:AJ:6:ARG:CB	10:AJ:6:ARG:HH11	2.06	0.69
15:AO:117:ARG:HH22	15:AO:124:LYS:CG	2.02	0.69
15:AO:93:LEU:HD12	15:AO:96:VAL:CG2	2.10	0.69
16:AP:91:ARG:HB3	16:AP:98:VAL:HG13	1.72	0.69
17:AQ:26:ARG:HD2	17:AQ:47:LEU:CD1	2.22	0.69
19:AS:59:TRP:HE3	19:AS:59:TRP:HA	1.55	0.69
20:AT:59:ILE:HD11	20:AT:71:PHE:C	2.13	0.69
20:AT:68:ARG:H	20:AT:70:ARG:CZ	2.06	0.69
49:B1:16:LEU:CD2	49:B1:59:LEU:HB2	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B2:35:ARG:NH2	50:B2:54:VAL:HG21	2.08	0.69
52:B4:51:TYR:C	52:B4:51:TYR:HD2	1.94	0.69
25:BA:1417:C:H3'	25:BA:1418:G:C8	2.27	0.69
25:BA:1449:A:C2	25:BA:1449(A):G:H1'	2.27	0.69
25:BA:1491:G:N3	25:BA:1492:G:O2'	2.26	0.69
25:BA:1530:G:H3'	25:BA:1531:C:C6	2.27	0.69
25:BA:1882:C:H2'	25:BA:1883:G:H5'	1.74	0.69
25:BA:2450:A:C2	25:BA:2451:A:C4	2.80	0.69
25:BA:2637:U:OP2	25:BA:2637:U:H6	1.74	0.69
25:BA:2695:C:H2'	25:BA:2696:U:C5	2.27	0.69
25:BA:1051:G:C5'	25:BA:2752:C:H1'	2.23	0.69
25:BA:2861:G:H2'	25:BA:2862:G:H8	1.56	0.69
25:BA:2880:C:C2	25:BA:2881:C:C5	2.81	0.69
25:BA:223:A:C4	25:BA:408:G:H1'	2.27	0.69
25:BA:470:A:N3	25:BA:471:A:C1'	2.55	0.69
25:BA:977:G:H2'	25:BA:978:G:C4'	2.22	0.69
27:BC:77:ILE:HG21	27:BC:123:VAL:HG22	1.74	0.69
28:BD:45:ASN:C	28:BD:46:GLN:HG3	2.13	0.69
28:BD:7:LYS:HE2	28:BD:25:THR:CG2	2.23	0.69
38:BP:75:THR:HG21	38:BP:77:LYS:HG3	1.72	0.69
40:BR:47:THR:HG22	40:BR:48:LEU:N	2.06	0.69
42:BT:44:ASN:ND2	43:BU:78:LYS:H	1.86	0.69
45:BW:36:LYS:HD2	45:BW:54:VAL:HG12	1.73	0.69
45:BW:60:ARG:HD2	45:BW:62:LYS:NZ	2.08	0.69
46:BX:72:VAL:CG2	46:BX:81:LYS:HE2	2.23	0.69
47:BY:51:ALA:C	47:BY:53:ILE:N	2.33	0.69
26:BB:12:C:OP2	48:BZ:74:ARG:HD2	1.93	0.69
34:BL:90:LYS:HD2	34:BL:93:ARG:NH1	2.07	0.69
1:AA:843:U:H3	5:AE:37:ASN:ND2	1.89	0.69
1:AA:553:A:H2'	1:AA:554:C:H6	1.58	0.69
1:AA:582:U:H5'	18:AR:64:ARG:HH22	1.52	0.69
1:AA:64:G:N2	1:AA:67:C:C4	2.61	0.69
1:AA:960:U:N3	1:AA:1225:A:C5	2.59	0.69
5:AE:152:PHE:CE1	5:AE:159:PRO:HG2	2.28	0.69
5:AE:184:VAL:H	5:AE:198:ASP:CG	1.96	0.69
5:AE:56:ARG:HH11	5:AE:56:ARG:CB	2.03	0.69
1:AA:597:G:N2	11:AK:94:TYR:CE2	2.60	0.69
11:AK:96:GLY:O	11:AK:99:GLU:HG3	1.91	0.69
12:AL:114:TYR:HB2	12:AL:116:LYS:NZ	2.08	0.69
12:AL:27:THR:CB	12:AL:62:TYR:HD1	2.06	0.69
15:AO:85:ILE:HG13	15:AO:87:GLY:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:12:ARG:O	17:AQ:13:THR:C	2.31	0.69
18:AR:42:HIS:CG	18:AR:43:LEU:N	2.60	0.69
21:AU:74:ARG:N	21:AU:79:LEU:HD21	2.07	0.69
23:AW:19:SER:O	23:AW:23:ARG:CB	2.40	0.69
51:B3:41:PRO:HB2	51:B3:57:GLU:HB3	1.74	0.69
25:BA:141:A:H2	25:BA:1597:A:H5'	1.58	0.69
25:BA:1550:C:H2'	25:BA:1551:C:H6	1.57	0.69
25:BA:1612:C:O3'	54:B6:5:TRP:HD1	1.76	0.69
25:BA:1651:G:H5''	39:BQ:39:PRO:HG2	1.72	0.69
25:BA:2022:U:H5'	25:BA:2023:G:OP2	1.92	0.69
25:BA:2051:A:C6	25:BA:2614:A:N7	2.60	0.69
25:BA:2623:G:C5'	25:BA:2826:A:H1'	2.23	0.69
25:BA:270(B):A:O2'	25:BA:270(C):C:H6	1.74	0.69
25:BA:449:A:O2'	25:BA:450:G:H5'	1.91	0.69
25:BA:450:G:H5''	25:BA:451:C:OP2	1.93	0.69
25:BA:715:G:H3'	25:BA:715:G:C8	2.28	0.69
25:BA:886:C:H6	25:BA:886:C:O5'	1.74	0.69
25:BA:935:C:H2'	25:BA:936:C:H6	1.58	0.69
27:BC:127:LEU:HB3	27:BC:131:LEU:HG	1.72	0.69
27:BC:64:LEU:H	27:BC:161:ILE:HD11	1.58	0.69
28:BD:180:GLY:O	28:BD:181:GLU:OE1	2.11	0.69
28:BD:72:LYS:HD3	28:BD:75:ILE:HG21	1.75	0.69
29:BE:5:LEU:HD12	29:BE:198:VAL:HG23	1.73	0.69
29:BE:94:GLU:O	29:BE:96:PHE:N	2.26	0.69
30:BF:188:ARG:HB3	30:BF:188:ARG:HH21	1.58	0.69
31:BG:130:ASN:O	31:BG:159:VAL:HG23	1.93	0.69
32:BH:127:GLU:HG3	32:BH:130:ARG:CG	2.23	0.69
36:BN:24:VAL:CG1	36:BN:30:ALA:HB1	2.20	0.69
37:BO:122:PRO:HB3	37:BO:138:LEU:N	2.07	0.69
39:BQ:3:HIS:CG	39:BQ:4:LEU:N	2.61	0.69
40:BR:33:LYS:HG2	40:BR:54:LEU:HD11	1.74	0.69
42:BT:57:PHE:HA	42:BT:60:LEU:CD1	2.22	0.69
44:BV:20:VAL:HG11	44:BV:47:VAL:HG21	1.75	0.69
47:BY:63:ASP:OD1	47:BY:64:GLY:N	2.24	0.69
48:BZ:21:LEU:HD13	48:BZ:41:ARG:CG	2.18	0.69
1:AA:110:C:C2'	1:AA:111:G:O5'	2.36	0.69
1:AA:1364:U:O2'	1:AA:1365:G:OP1	2.09	0.69
1:AA:1375:A:C2	1:AA:1376:U:C2	2.80	0.69
1:AA:517:G:H5'	1:AA:519:C:C4	2.27	0.69
1:AA:701:C:H5''	1:AA:702:A:H3'	1.74	0.69
1:AA:907:A:H2'	1:AA:908:A:H8	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:56:C:H2'	31:BG:82:LEU:HB3	1.73	0.69
5:AE:10:LEU:HB3	5:AE:11:LEU:HD23	1.75	0.69
10:AJ:26:PHE:CE1	10:AJ:105:VAL:HG22	2.27	0.69
11:AK:23:SER:O	11:AK:24:THR:HB	1.92	0.69
14:AN:50:TYR:CE2	14:AN:54:ARG:HB3	2.27	0.69
22:AV:71:LEU:O	22:AV:74:PHE:HD1	1.76	0.69
49:B1:20:VAL:HG23	49:B1:52:ILE:CG2	2.23	0.69
51:B3:66:SER:O	51:B3:69:LYS:N	2.26	0.69
25:BA:2017:U:O2	52:B4:9:LYS:HA	1.92	0.69
55:B7:3:LYS:NZ	55:B7:59:LYS:HZ3	1.89	0.69
56:B8:11:CYS:CB	56:B8:32:HIS:CE1	2.76	0.69
25:BA:1044:G:N7	25:BA:1048:A:H1'	2.08	0.69
25:BA:1210:A:H4'	25:BA:1211:U:O5'	1.93	0.69
25:BA:126:A:C5'	54:B6:47:ARG:HH22	2.05	0.69
25:BA:1301:A:N6	25:BA:1303:G:N3	2.40	0.69
25:BA:1336:A:H2'	25:BA:1337:G:H8	1.57	0.69
25:BA:1391:U:O2	25:BA:1393:A:H8	1.76	0.69
25:BA:1583:A:O3'	25:BA:1585:C:H6	1.76	0.69
25:BA:1778:U:H2'	25:BA:1779:U:C5	2.27	0.69
25:BA:739:G:C3'	25:BA:1784:A:N1	2.54	0.69
25:BA:1944:U:H1'	25:BA:1955:U:H1'	1.73	0.69
25:BA:1957:C:C2	25:BA:1958:C:C5	2.81	0.69
25:BA:2021:C:H2'	25:BA:2022:U:OP1	1.93	0.69
25:BA:2069:G:C2	25:BA:2070:G:C8	2.81	0.69
25:BA:2556:C:O2'	25:BA:2557:G:H5'	1.92	0.69
25:BA:307:G:N2	25:BA:310:A:O4'	2.25	0.69
25:BA:321:G:H4'	30:BF:165:ARG:O	1.93	0.69
25:BA:387:U:OP1	51:B3:28:LYS:NZ	2.25	0.69
25:BA:60:G:C8	25:BA:63:U:O4	2.46	0.69
25:BA:650:C:N4	25:BA:651:G:C2	2.61	0.69
25:BA:724:U:O2'	25:BA:725:G:H5'	1.92	0.69
25:BA:917:A:O2'	25:BA:918:A:OP1	2.08	0.69
25:BA:984:A:OP1	25:BA:985:C:N4	2.24	0.69
26:BB:31:C:C2	26:BB:32:C:C5	2.80	0.69
25:BA:2123:G:O2'	27:BC:172:HIS:HB2	1.93	0.69
25:BA:1804:C:H4'	28:BD:250:TRP:HZ2	1.55	0.69
31:BG:19:LEU:HG	31:BG:22:ARG:CZ	2.23	0.69
31:BG:33:ARG:NH2	31:BG:34:LEU:CA	2.55	0.69
35:BM:126:PRO:C	35:BM:127:ASP:CG	2.49	0.69
36:BN:2:ILE:HG22	36:BN:33:ALA:O	1.92	0.69
36:BN:2:ILE:CD1	36:BN:32:TYR:HB3	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:99:PHE:CZ	41:BS:72:VAL:HG11	2.28	0.69
37:BO:72:PRO:HB3	37:BO:110:TYR:C	2.13	0.69
25:BA:598:G:H1'	37:BO:14:LYS:CG	2.23	0.69
37:BO:45:LEU:HB3	37:BO:46:LYS:CE	2.22	0.69
37:BO:92:GLU:HA	37:BO:92:GLU:OE2	1.92	0.69
38:BP:11:LYS:HZ3	38:BP:16:ARG:NH2	1.90	0.69
38:BP:6:ARG:HH21	38:BP:8:LYS:CA	2.05	0.69
40:BR:107:GLU:OE1	40:BR:110:LEU:HD23	1.92	0.69
41:BS:72:VAL:HB	41:BS:74:ARG:HD2	1.75	0.69
42:BT:111:GLU:HA	42:BT:114:LYS:NZ	2.07	0.69
43:BU:50:PRO:HB2	43:BU:53:GLU:OE1	1.92	0.69
46:BX:50:ARG:CA	46:BX:54:LYS:HA	2.21	0.69
26:BB:73:A:H2	47:BY:29:TYR:HH	1.39	0.69
33:BK:69:LYS:HG2	33:BK:70:LYS:H	1.58	0.69
25:BA:1104:C:H2'	25:BA:1105:U:C6	2.27	0.69
25:BA:1087:G:H21	25:BA:1103:A:H2'	1.57	0.69
34:BL:112:MET:CE	34:BL:115:LEU:HD12	2.23	0.69
1:AA:1498:U:H5''	4:A1:16:A:H4'	1.73	0.69
1:AA:1401:G:C6	1:AA:1504:G:N2	2.60	0.69
1:AA:16:A:O4'	8:AH:17:ALA:HB3	1.91	0.69
1:AA:129(A):G:N2	1:AA:191(A):G:C4	2.61	0.69
1:AA:366:C:O2'	1:AA:367:U:P	2.50	0.69
1:AA:857:C:H2'	1:AA:858:G:O4'	1.93	0.69
1:AA:887:G:C5	1:AA:888:G:N7	2.61	0.69
1:AA:975:A:H4'	1:AA:976:G:C5'	2.22	0.69
3:AD:8:U:OP1	3:AD:49:G:H5'	1.93	0.69
5:AE:100:GLY:O	5:AE:104:ASN:ND2	2.25	0.69
6:AF:5:ILE:CG2	13:AM:51:ARG:HH22	2.06	0.69
6:AF:8:ILE:HG21	17:AQ:50:LYS:O	1.92	0.69
7:AG:3:ARG:HE	7:AG:71:SER:N	1.89	0.69
8:AH:109:ILE:CG2	8:AH:110:LEU:N	2.56	0.69
10:AJ:40:ALA:HB1	10:AJ:44:TYR:CE1	2.27	0.69
11:AK:82:HIS:CE1	11:AK:84:ARG:HB2	2.28	0.69
12:AL:46:ALA:O	12:AL:47:LEU:HB2	1.91	0.69
12:AL:48:GLU:HB3	12:AL:78:LYS:HZ3	1.58	0.69
14:AN:32:ILE:HG22	14:AN:40:ILE:CD1	2.16	0.69
18:AR:21:ASP:OD2	18:AR:24:SER:HB2	1.93	0.69
49:B1:20:VAL:HG23	49:B1:52:ILE:HG23	1.74	0.69
49:B1:4:GLN:HE22	49:B1:7:GLU:HB2	1.57	0.69
50:B2:10:LYS:CG	50:B2:31:LEU:HD21	2.16	0.69
52:B4:25:LEU:HG	52:B4:26:THR:N	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B4:49:CYS:O	52:B4:51:TYR:N	2.26	0.69
52:B4:6:VAL:HG13	52:B4:6:VAL:O	1.93	0.69
54:B6:48:LYS:HE2	54:B6:49:ARG:N	2.08	0.69
55:B7:26:LYS:HD2	55:B7:43:GLN:C	2.13	0.69
25:BA:1022:G:O2'	25:BA:1023:U:P	2.51	0.69
25:BA:122:G:OP1	25:BA:149:A:O2'	2.08	0.69
25:BA:1343:G:H1'	25:BA:1597:A:N1	2.07	0.69
25:BA:1342:A:C2	25:BA:1397:U:C6	2.81	0.69
25:BA:1430:C:H2'	25:BA:1431:U:C6	2.28	0.69
25:BA:120:U:O2'	25:BA:149:A:N3	2.24	0.69
25:BA:1526:G:H5''	25:BA:1527:G:OP1	1.93	0.69
25:BA:1641:A:N3	25:BA:1641:A:H2'	2.06	0.69
25:BA:532:A:P	25:BA:2021:C:N4	2.66	0.69
25:BA:2177:C:H5''	27:BC:213:TYR:CZ	2.27	0.69
25:BA:2537:U:H2'	25:BA:2538:C:C6	2.28	0.69
25:BA:2777:G:H4'	25:BA:2778:A:H5'	1.74	0.69
25:BA:2631:G:O2'	25:BA:2810:A:N1	2.20	0.69
25:BA:283:A:H2'	25:BA:284:U:O4'	1.92	0.69
25:BA:318:C:H6	25:BA:318:C:OP2	1.74	0.69
25:BA:665:C:H2'	25:BA:666:G:H8	1.56	0.69
25:BA:796:C:O2'	25:BA:797:C:H5'	1.93	0.69
25:BA:826:U:H5''	25:BA:2428:G:O3'	1.93	0.69
25:BA:976:C:O2	25:BA:976:C:H2'	1.92	0.69
28:BD:175:LEU:O	28:BD:182:LEU:HA	1.92	0.69
28:BD:256:GLY:O	28:BD:257:LEU:CG	2.32	0.69
28:BD:87:ASN:HD22	28:BD:87:ASN:H	1.41	0.69
28:BD:84:TYR:HB3	28:BD:91:ARG:CG	2.23	0.69
28:BD:9:TYR:C	28:BD:11:PRO:HD3	2.12	0.69
29:BE:30:PRO:CB	29:BE:48:GLN:HB2	2.23	0.69
31:BG:21:ARG:NH2	31:BG:28:VAL:HG23	2.08	0.69
32:BH:87:LEU:N	32:BH:132:ARG:HB3	2.06	0.69
35:BM:123:TYR:HB2	35:BM:129:PRO:CB	2.23	0.69
35:BM:39:ARG:HB3	35:BM:48:MET:HE3	1.75	0.69
35:BM:34:LEU:HA	35:BM:49:GLY:O	1.93	0.69
35:BM:56:ASN:HB3	35:BM:59:LYS:HE3	1.75	0.69
36:BN:18:LYS:HE2	36:BN:44:LYS:HD2	1.74	0.69
36:BN:85:VAL:HB	36:BN:93:PRO:CG	2.21	0.69
36:BN:92:GLU:CD	36:BN:114:ILE:HB	2.13	0.69
38:BP:112:GLU:H	38:BP:112:GLU:CD	1.96	0.69
38:BP:46:GLN:HG2	38:BP:125:LEU:HD23	1.74	0.69
38:BP:99:PRO:O	38:BP:99:PRO:HG2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:19:C:OP2	42:BT:30:LYS:NZ	2.26	0.69
43:BU:30:GLY:O	43:BU:31:ALA:O	2.11	0.69
44:BV:11:ARG:HH21	44:BV:11:ARG:CB	2.06	0.69
44:BV:70:TYR:OH	44:BV:72:LYS:HG3	1.92	0.69
47:BY:111:VAL:O	47:BY:113:ALA:N	2.26	0.69
47:BY:9:TYR:CA	47:BY:14:LYS:HZ3	2.06	0.69
47:BY:31:ARG:HH21	47:BY:33:LEU:HD11	1.58	0.69
6:AF:118:GLN:O	6:AF:122:GLU:HG3	1.92	0.69
9:AI:28:ARG:HG2	9:AI:28:ARG:NH1	2.05	0.69
1:AA:1240:U:OP2	10:AJ:116:ALA:N	2.25	0.69
1:AA:1269:A:H2'	1:AA:1270:C:C4'	2.23	0.69
1:AA:928:G:H4'	1:AA:1533:C:N1	2.07	0.69
1:AA:169:C:O2'	1:AA:170:U:H5'	1.93	0.69
1:AA:523:A:H61	15:AO:53:ARG:HH22	1.40	0.69
1:AA:609:A:C2	1:AA:610:G:C1'	2.75	0.69
1:AA:873:A:OP1	1:AA:873:A:O4'	2.11	0.69
7:AG:107:ARG:HB3	7:AG:174:LEU:CD1	2.24	0.69
10:AJ:14:PRO:HG3	10:AJ:21:VAL:CG1	2.23	0.69
1:AA:642:A:H2	11:AK:113:SER:O	1.75	0.69
16:AP:32:GLU:HB2	16:AP:64:TRP:HH2	1.56	0.69
16:AP:64:TRP:O	16:AP:65:LYS:HD2	1.91	0.69
17:AQ:45:ARG:O	17:AQ:48:ALA:HB3	1.93	0.69
18:AR:7:GLU:HA	18:AR:10:LYS:CG	2.22	0.69
1:AA:760:G:C2'	20:AT:103:GLY:HA3	2.23	0.69
11:AK:90:GLY:HA2	20:AT:34:LYS:HZ1	1.58	0.69
49:B1:11:LEU:H	49:B1:11:LEU:HD12	1.56	0.69
50:B2:3:ARG:HH22	50:B2:59:VAL:HG11	1.58	0.69
25:BA:2346:A:N6	53:B5:37:ARG:NH1	2.31	0.69
54:B6:41:ARG:HH11	54:B6:41:ARG:CB	2.04	0.69
55:B7:26:LYS:O	55:B7:28:GLY:N	2.25	0.69
55:B7:23:VAL:HG13	55:B7:47:LYS:O	1.93	0.69
25:BA:1044:G:H2'	25:BA:1111:A:C2	2.28	0.69
25:BA:10:G:H2'	25:BA:11:G:C8	2.28	0.69
25:BA:1203:G:O2'	25:BA:1204:A:OP1	2.11	0.69
25:BA:1268:A:C5	25:BA:2013:A:N7	2.61	0.69
25:BA:1487:G:H2'	25:BA:1488:G:H8	1.57	0.69
25:BA:1503:U:H2'	25:BA:1504:C:H5	1.55	0.69
25:BA:1707:G:H1'	25:BA:1758:G:H22	1.58	0.69
25:BA:2065:C:H2'	25:BA:2066:C:H6	1.56	0.69
25:BA:2206:C:H2'	25:BA:2207:C:H6	1.58	0.69
25:BA:2209:C:OP2	25:BA:2210:G:OP2	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2286:A:C8	53:B5:31:PRO:HD2	2.28	0.69
25:BA:2287:A:H2'	25:BA:2288:A:C5'	2.23	0.69
25:BA:2773:C:OP1	29:BE:164:ARG:NH2	2.26	0.69
25:BA:2792:G:N2	25:BA:2793:G:C5	2.61	0.69
25:BA:444:C:O3'	42:BT:2:PRO:HG2	1.92	0.69
25:BA:452:G:N1	25:BA:458:G:C2	2.60	0.69
25:BA:764:A:OP1	28:BD:211:ARG:HB3	1.93	0.69
25:BA:811:U:O2'	25:BA:812:C:OP1	2.10	0.69
25:BA:833:U:H5'	37:BO:47:ASP:OD1	1.93	0.69
25:BA:866:A:N3	25:BA:866:A:H2'	2.07	0.69
26:BB:13:A:C2	26:BB:69:G:N2	2.60	0.69
27:BC:22:ILE:HG23	27:BC:189:ILE:HG21	1.74	0.69
28:BD:82:ILE:HG22	28:BD:83:GLU:N	2.08	0.69
29:BE:110:GLY:O	39:BQ:4:LEU:CD1	2.40	0.69
29:BE:116:VAL:HG12	29:BE:120:TRP:CE2	2.27	0.69
30:BF:104:LYS:CG	30:BF:108:LYS:HE2	2.22	0.69
31:BG:115:ARG:HG3	31:BG:115:ARG:HH21	1.58	0.69
31:BG:134:GLY:HA3	31:BG:156:ASP:HA	1.74	0.69
31:BG:35:GLU:OE2	31:BG:36:LYS:HB3	1.93	0.69
32:BH:117:PRO:HB3	32:BH:123:PHE:CE1	2.28	0.69
32:BH:97:ARG:HB3	32:BH:104:GLU:HG3	1.75	0.69
33:BK:14:ASP:O	33:BK:15:VAL:O	2.12	0.69
37:BO:78:PRO:CA	37:BO:81:GLN:HG3	2.17	0.69
38:BP:32:TYR:CB	38:BP:105:GLU:O	2.41	0.69
39:BQ:17:ARG:CG	39:BQ:18:LEU:N	2.56	0.69
25:BA:2296:U:H5	40:BR:5:THR:HG23	1.58	0.69
42:BT:26:GLY:O	42:BT:27:LEU:HB2	1.93	0.69
44:BV:72:LYS:CD	44:BV:108:GLY:HA3	2.22	0.69
47:BY:10:ARG:N	47:BY:14:LYS:NZ	2.41	0.69
47:BY:19:ARG:NH2	47:BY:84:GLU:O	2.26	0.69
33:BK:110:ASP:OD1	33:BK:113:ARG:HG3	1.92	0.69
34:BL:18:THR:H	34:BL:19:PRO:CD	2.06	0.69
1:AA:1151:A:OP1	13:AM:41:PRO:HA	1.93	0.68
1:AA:1409:C:O2'	1:AA:1410:G:H5'	1.93	0.68
1:AA:193:C:C2	1:AA:194:C:C5	2.81	0.68
1:AA:219:C:H6	1:AA:219:C:H3'	1.57	0.68
1:AA:552:U:H4'	15:AO:86:ARG:O	1.93	0.68
1:AA:970:C:H4'	1:AA:972:C:C5	2.29	0.68
5:AE:187:LEU:HA	5:AE:201:ILE:O	1.93	0.68
5:AE:57:PHE:O	5:AE:57:PHE:HD2	1.73	0.68
6:AF:29:TYR:CZ	17:AQ:54:PRO:HG2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:97:LYS:HD3	6:AF:97:LYS:H	1.57	0.68
7:AG:206:PHE:C	7:AG:206:PHE:HD2	1.95	0.68
8:AH:109:ILE:HG23	8:AH:110:LEU:HD23	1.75	0.68
8:AH:41:VAL:HG21	8:AH:113:ALA:CB	2.22	0.68
8:AH:32:VAL:O	8:AH:43:LEU:HA	1.92	0.68
11:AK:48:TYR:HA	11:AK:60:ARG:O	1.93	0.68
11:AK:44:PHE:HA	11:AK:79:VAL:HG12	1.73	0.68
11:AK:8:ASP:HA	11:AK:11:THR:OG1	1.93	0.68
12:AL:8:GLY:O	12:AL:15:ALA:HB3	1.93	0.68
14:AN:29:ILE:HG22	14:AN:44:SER:CB	2.23	0.68
16:AP:59:TYR:CE1	16:AP:63:THR:HG21	2.28	0.68
18:AR:36:ILE:HD11	18:AR:60:VAL:HG22	1.72	0.68
9:AI:97:PHE:O	21:AU:30:ASP:HA	1.92	0.68
21:AU:43:PHE:HA	21:AU:51:LEU:HD22	1.74	0.68
25:BA:2056:G:N2	52:B4:4:HIS:CD2	2.60	0.68
54:B6:5:TRP:CZ3	54:B6:12:ARG:NH1	2.60	0.68
25:BA:1527:G:H8	25:BA:1527:G:H3'	1.58	0.68
25:BA:1936:A:H2	25:BA:1943:U:O4	1.76	0.68
25:BA:1326:U:H6	25:BA:2010:G:H21	1.35	0.68
25:BA:2049:G:H2'	25:BA:2050:C:O5'	1.93	0.68
25:BA:2075:U:H2'	25:BA:2076:U:C5'	2.22	0.68
25:BA:46:C:N4	25:BA:214:G:H8	1.92	0.68
25:BA:957:A:N1	25:BA:2459:A:H4'	2.07	0.68
25:BA:2479:G:OP1	25:BA:2537:U:H1'	1.93	0.68
25:BA:242:G:H2'	25:BA:254:G:N1	2.06	0.68
25:BA:272:G:C2'	25:BA:273:G:H5'	2.23	0.68
25:BA:295:G:C2'	25:BA:338:G:H22	2.05	0.68
25:BA:470:A:C2	25:BA:471:A:C1'	2.63	0.68
25:BA:573:G:N2	25:BA:2029:G:N2	2.39	0.68
25:BA:752:A:H62	25:BA:1781:C:H1'	1.58	0.68
26:BB:33:G:H2'	26:BB:34:U:C6	2.28	0.68
25:BA:1818:U:C5'	28:BD:158:ALA:HB2	2.23	0.68
28:BD:72:LYS:C	28:BD:74:GLY:H	1.96	0.68
28:BD:84:TYR:CD1	28:BD:91:ARG:CD	2.69	0.68
29:BE:164:ARG:HG2	29:BE:165:VAL:N	2.08	0.68
29:BE:37:ARG:HB2	29:BE:39:PRO:HD2	1.75	0.68
30:BF:136:THR:HG22	30:BF:166:ALA:O	1.93	0.68
30:BF:188:ARG:NH2	30:BF:188:ARG:HB3	2.08	0.68
30:BF:35:GLU:N	30:BF:38:ARG:NH2	2.41	0.68
30:BF:64:ILE:HG21	30:BF:78:ILE:HB	1.75	0.68
31:BG:77:ILE:O	31:BG:78:SER:O	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:23:LEU:HD11	35:BM:63:THR:H	1.58	0.68
38:BP:66:ILE:CG2	38:BP:67:ARG:N	2.45	0.68
38:BP:76:LYS:HG3	38:BP:91:GLU:HG3	1.74	0.68
38:BP:6:ARG:NH2	38:BP:8:LYS:HG3	2.08	0.68
39:BQ:11:ASN:CG	39:BQ:12:ARG:N	2.44	0.68
25:BA:2881:C:H5'	39:BQ:90:ARG:HH11	1.58	0.68
41:BS:23:ARG:NH2	41:BS:90:GLN:HG2	2.07	0.68
41:BS:2:ASN:O	41:BS:5:ALA:HB3	1.93	0.68
36:BN:106:LEU:CD2	41:BS:38:ASN:HD21	2.06	0.68
42:BT:70:ARG:HG2	42:BT:75:ASN:HA	1.75	0.68
43:BU:3:ALA:C	43:BU:4:ILE:HD12	2.13	0.68
43:BU:69:LYS:HZ3	43:BU:70:ILE:HD12	1.58	0.68
45:BW:39:ILE:HG21	45:BW:54:VAL:CG1	2.22	0.68
48:BZ:72:ARG:NE	48:BZ:75:LEU:HD22	2.09	0.68
48:BZ:74:ARG:HD3	48:BZ:75:LEU:N	2.08	0.68
33:BK:125:GLU:HG2	33:BK:143:SER:HB2	1.73	0.68
33:BK:83:ALA:CB	33:BK:88:ILE:HA	2.23	0.68
33:BK:86:THR:HG22	33:BK:87:LYS:N	2.08	0.68
1:AA:1537:U:H2'	1:AA:1538:C:C1'	2.23	0.68
1:AA:1130:A:H5''	1:AA:1131:G:OP2	1.92	0.68
1:AA:122:G:C2	1:AA:123:C:C2	2.82	0.68
1:AA:406:G:C2	1:AA:407:G:N7	2.61	0.68
1:AA:452:A:N6	1:AA:480:U:C2	2.61	0.68
1:AA:648:A:H2'	1:AA:649:G:C5'	2.23	0.68
1:AA:922:G:N2	1:AA:923:A:H1'	2.08	0.68
7:AG:155:LEU:HB2	7:AG:158:ILE:HG13	1.74	0.68
10:AJ:22:LEU:HD23	10:AJ:63:LYS:HZ3	1.57	0.68
14:AN:85:ARG:HH21	14:AN:111:ASP:CG	1.96	0.68
14:AN:54:ARG:NH1	14:AN:54:ARG:HG3	1.96	0.68
17:AQ:4:LYS:O	17:AQ:7:ILE:HG13	1.93	0.68
19:AS:37:GLY:CA	19:AS:50:LYS:O	2.41	0.68
15:AO:11:VAL:HG22	20:AT:29:HIS:CD2	2.29	0.68
20:AT:59:ILE:HD11	20:AT:71:PHE:HB3	1.75	0.68
20:AT:91:ARG:O	20:AT:94:ASN:HB2	1.92	0.68
21:AU:44:LEU:O	21:AU:45:SER:OG	2.11	0.68
1:AA:735:C:O2'	21:AU:75:ILE:HD11	1.93	0.68
52:B4:55:ARG:CZ	52:B4:55:ARG:HB2	2.23	0.68
54:B6:38:GLY:O	54:B6:39:ARG:HB2	1.93	0.68
55:B7:21:LYS:NZ	55:B7:21:LYS:HB2	2.07	0.68
55:B7:29:LYS:O	55:B7:30:ARG:O	2.12	0.68
25:BA:1051:G:C4'	25:BA:2752:C:H1'	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1125:G:H5''	56:B8:4:ARG:HD2	1.75	0.68
25:BA:1264:G:C3'	25:BA:1265:A:H5''	2.23	0.68
25:BA:1278:A:O3'	39:BQ:34:ILE:HG23	1.94	0.68
25:BA:1325:G:N2	44:BV:86:LEU:HD21	2.09	0.68
25:BA:1418:G:OP1	25:BA:1588:C:H4'	1.93	0.68
25:BA:1473:G:C2'	25:BA:1474:C:H5'	2.22	0.68
25:BA:1531:C:C2	25:BA:1532:C:C5	2.80	0.68
25:BA:1684:C:H2'	25:BA:1685:C:C6	2.29	0.68
25:BA:1718:G:H2'	25:BA:1725:G:N7	2.07	0.68
25:BA:1819:A:O2'	25:BA:1820:U:H5'	1.93	0.68
25:BA:1933:G:O6	25:BA:1968:G:N2	2.26	0.68
25:BA:2014:A:C4	25:BA:2015:A:H2	2.10	0.68
25:BA:2027:G:O2'	25:BA:2028:U:H5'	1.93	0.68
25:BA:2061:G:H2'	25:BA:2063:C:H41	1.57	0.68
25:BA:2111:C:C1'	25:BA:2118:U:H1'	2.23	0.68
25:BA:2197:U:H2'	25:BA:2224:G:H22	1.58	0.68
25:BA:2236:C:H2'	25:BA:2237:G:H5'	1.73	0.68
25:BA:2246:G:C2	25:BA:2247:A:C5	2.82	0.68
25:BA:2553:G:C8	25:BA:2583:G:C4'	2.77	0.68
25:BA:269:U:C5	25:BA:270(Z):U:OP2	2.46	0.68
25:BA:2729:G:H2'	25:BA:2730:C:O4'	1.93	0.68
25:BA:2840:C:C2'	25:BA:2841:C:H5'	2.24	0.68
25:BA:332:A:C2'	25:BA:334:C:OP2	2.41	0.68
25:BA:477:A:N6	25:BA:502:A:N6	2.34	0.68
25:BA:72:U:C2'	25:BA:73:A:OP1	2.41	0.68
25:BA:83:G:H1	25:BA:102:G:H2'	1.57	0.68
25:BA:83:G:O6	25:BA:102:G:N3	2.27	0.68
25:BA:945:A:H3'	25:BA:946:G:H5''	1.75	0.68
25:BA:95:G:C1'	49:B1:42:ASN:ND2	2.55	0.68
26:BB:48:A:OP1	40:BR:92:TYR:HB3	1.94	0.68
28:BD:119:ALA:HB2	28:BD:130:ALA:N	2.09	0.68
28:BD:69:ARG:NH2	28:BD:130:ALA:CB	2.55	0.68
29:BE:104:VAL:HG21	29:BE:198:VAL:HG22	1.76	0.68
29:BE:173:VAL:CG2	29:BE:174:ASP:N	2.56	0.68
30:BF:195:ASP:C	30:BF:197:ASP:H	1.97	0.68
30:BF:7:TYR:CD2	30:BF:119:ARG:HB3	2.28	0.68
32:BH:41:MET:SD	32:BH:68:THR:OG1	2.51	0.68
33:BK:9:LEU:HA	33:BK:17:GLN:HE22	1.57	0.68
37:BO:112:LEU:N	37:BO:128:HIS:CE1	2.61	0.68
37:BO:85:LEU:O	37:BO:86:LYS:HD3	1.92	0.68
38:BP:74:TYR:CD2	38:BP:92:GLY:O	2.46	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:56:LYS:O	39:BQ:57:ARG:C	2.30	0.68
40:BR:71:ARG:O	40:BR:74:ALA:HB3	1.93	0.68
42:BT:57:PHE:CA	42:BT:60:LEU:HD13	2.21	0.68
43:BU:15:GLU:CA	43:BU:100:ARG:CZ	2.71	0.68
43:BU:35:LEU:C	43:BU:61:VAL:HG13	2.14	0.68
44:BV:10:VAL:O	44:BV:12:ILE:HD13	1.93	0.68
46:BX:14:LEU:CD2	46:BX:19:LYS:HE3	2.23	0.68
46:BX:37:VAL:HG13	46:BX:39:VAL:HB	1.76	0.68
38:BP:82:ARG:HB2	48:BZ:5:LYS:HD3	1.74	0.68
33:BK:76:THR:HG22	33:BK:141:LYS:HE2	1.74	0.68
25:BA:1074:G:C4	25:BA:1075:C:N4	2.61	0.68
25:BA:1093:G:N2	25:BA:1098:A:N6	2.40	0.68
34:BL:41:PHE:CZ	34:BL:57:ILE:HD13	2.28	0.68
23:AW:8:ARG:HB2	23:AW:8:ARG:CZ	2.22	0.68
1:AA:1336:C:H4'	1:AA:1337:G:C2	2.28	0.68
1:AA:1387:G:H2'	1:AA:1388:C:C6	2.28	0.68
1:AA:1495:U:O2	1:AA:1495:U:H2'	1.91	0.68
1:AA:1406:U:H1'	1:AA:1518:A:H4'	1.75	0.68
1:AA:559:A:H4'	1:AA:560:U:O5'	1.92	0.68
1:AA:766:A:C2'	1:AA:767:A:O5'	2.41	0.68
1:AA:828:A:H2'	1:AA:829:G:O4'	1.93	0.68
1:AA:836:G:C6	1:AA:851:G:C6	2.81	0.68
3:AD:20:U:O2	3:AD:20:U:H2'	1.92	0.68
6:AF:156:ARG:HD2	6:AF:163:ALA:HB2	1.74	0.68
7:AG:98:GLU:CG	7:AG:189:PRO:HG3	2.23	0.68
8:AH:121:LYS:HZ3	8:AH:122:GLU:H	1.40	0.68
8:AH:13:ILE:HD12	8:AH:13:ILE:N	2.09	0.68
10:AJ:111:ARG:HB3	10:AJ:112:PRO:CD	2.23	0.68
11:AK:60:ARG:HG3	11:AK:61:VAL:N	2.09	0.68
16:AP:16:ASP:HB2	16:AP:30:ALA:CB	2.21	0.68
16:AP:91:ARG:HA	16:AP:96:LEU:HD21	1.75	0.68
22:AV:11:VAL:HG13	22:AV:39:THR:H	1.59	0.68
25:BA:1106:G:C6	25:BA:1107:G:C6	2.82	0.68
25:BA:1263:U:H2'	25:BA:1264:G:N3	2.09	0.68
25:BA:149:A:N7	25:BA:150:C:N1	2.42	0.68
25:BA:1479:G:H1	25:BA:1515:C:N4	1.92	0.68
25:BA:1591:G:C6	25:BA:1592:C:N4	2.60	0.68
25:BA:1851:U:H2'	25:BA:1852:C:C5	2.28	0.68
25:BA:197:A:C2	25:BA:198:C:C1'	2.75	0.68
25:BA:216:A:C2	25:BA:217:G:C4	2.81	0.68
25:BA:2191:G:H21	25:BA:2192:G:H1'	1.55	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2210:G:H4'	25:BA:2211:G:H5'	1.73	0.68
25:BA:2393:A:P	55:B7:32:LEU:HD11	2.33	0.68
25:BA:280:C:H41	25:BA:283:A:N6	1.88	0.68
25:BA:38:A:O2'	25:BA:39:C:H5'	1.92	0.68
25:BA:878:A:H1'	25:BA:879:G:N7	2.08	0.68
26:BB:105:G:O2'	26:BB:106:G:H5'	1.92	0.68
28:BD:125:ILE:CG2	28:BD:137:PRO:HG3	2.23	0.68
25:BA:2209:C:O5'	28:BD:151:LYS:HG2	1.93	0.68
29:BE:118:LYS:HE2	29:BE:118:LYS:CA	2.23	0.68
29:BE:44:TYR:O	29:BE:45:THR:HB	1.91	0.68
29:BE:54:GLN:HB3	29:BE:57:LYS:HG3	1.76	0.68
31:BG:125:PHE:CD1	31:BG:131:TYR:N	2.61	0.68
32:BH:105:LEU:HB2	32:BH:113:VAL:HG11	1.75	0.68
32:BH:11:VAL:HG13	32:BH:15:VAL:CG1	2.24	0.68
35:BM:120:LEU:CD1	35:BM:122:VAL:HG12	2.21	0.68
35:BM:126:PRO:HG3	35:BM:128:HIS:HB2	1.74	0.68
35:BM:40:PRO:O	35:BM:41:ASP:HB2	1.94	0.68
36:BN:31:LYS:CB	36:BN:32:TYR:CE2	2.73	0.68
37:BO:122:PRO:HG3	37:BO:137:LYS:C	2.14	0.68
38:BP:6:ARG:NH2	38:BP:8:LYS:N	2.40	0.68
42:BT:83:LEU:CD2	42:BT:90:VAL:HG13	2.23	0.68
43:BU:25:LEU:HA	43:BU:28:GLU:HB2	1.75	0.68
44:BV:13:SER:OG	44:BV:14:PRO:CD	2.41	0.68
44:BV:11:ARG:CB	44:BV:98:LYS:HE3	2.12	0.68
45:BW:30:VAL:CG1	45:BW:79:ALA:HB3	2.23	0.68
45:BW:48:LYS:O	45:BW:88:LYS:HG3	1.93	0.68
46:BX:35:TYR:CE1	46:BX:65:ALA:O	2.46	0.68
46:BX:75:ILE:HG23	46:BX:75:ILE:O	1.93	0.68
47:BY:141:VAL:HG11	47:BY:150:LEU:HD11	1.75	0.68
34:BL:98:ARG:HD3	34:BL:139:VAL:HB	1.75	0.68
1:AA:843:U:N3	5:AE:37:ASN:HA	2.08	0.68
1:AA:1202:G:N2	1:AA:1203:C:C1'	2.56	0.68
1:AA:971:G:H2'	1:AA:1365:G:H4'	1.75	0.68
1:AA:1493:A:HO2'	1:AA:1494:G:C5'	2.05	0.68
1:AA:152:A:H3'	1:AA:152:A:C8	2.28	0.68
1:AA:720:C:H3'	1:AA:721:G:C8	2.26	0.68
1:AA:740:U:OP2	18:AR:3:ILE:HD11	1.94	0.68
5:AE:193:ASP:OD2	5:AE:196:LEU:HG	1.94	0.68
6:AF:192:THR:HG22	6:AF:192:THR:O	1.93	0.68
6:AF:30:ARG:HG2	6:AF:31:HIS:H	1.59	0.68
7:AG:102:ASP:HB2	7:AG:136:PRO:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:83:SER:HA	7:AG:89:THR:HG1	1.56	0.68
10:AJ:150:ALA:HB1	14:AN:57:THR:OG1	1.92	0.68
12:AL:40:LEU:C	12:AL:42:ARG:N	2.45	0.68
1:AA:1250:A:H4'	12:AL:67:GLY:C	2.14	0.68
13:AM:47:PHE:N	13:AM:47:PHE:CD1	2.61	0.68
14:AN:62:GLN:CD	14:AN:63:LEU:N	2.47	0.68
23:AW:91:LEU:HD23	23:AW:91:LEU:H	1.58	0.68
49:B1:33:GLN:HB3	49:B1:41:GLN:OE1	1.92	0.68
51:B3:10:VAL:N	51:B3:11:PRO:HD3	2.09	0.68
52:B4:10:LYS:HE3	52:B4:15:ARG:CZ	2.23	0.68
25:BA:2624:G:H1'	52:B4:22:HIS:NE2	2.07	0.68
52:B4:56:LYS:CG	52:B4:57:VAL:HG13	2.24	0.68
53:B5:19:ARG:O	53:B5:43:CYS:SG	2.51	0.68
25:BA:1005:C:O2	25:BA:1006:C:C6	2.46	0.68
25:BA:1035:U:H2'	25:BA:1036:G:C8	2.29	0.68
25:BA:114:U:H2'	25:BA:115:C:H6	1.57	0.68
25:BA:1158:C:H4'	50:B2:32:GLN:CB	2.23	0.68
25:BA:1238:G:H2'	25:BA:1239:G:H5'	1.73	0.68
25:BA:1242:A:H5'	25:BA:1243:G:OP2	1.93	0.68
25:BA:1420:U:H2'	25:BA:1421:G:H8	1.57	0.68
25:BA:1553:A:H2'	25:BA:1555:G:N7	2.09	0.68
25:BA:1690:A:H2'	25:BA:1690:A:N3	2.06	0.68
25:BA:16:G:H2'	25:BA:17:G:H8	1.58	0.68
25:BA:1935:G:C2	25:BA:1962:C:H2'	2.27	0.68
25:BA:858:U:O2'	25:BA:2268:A:C2'	2.42	0.68
25:BA:2464:C:H2'	25:BA:2465:C:H6	1.59	0.68
25:BA:2880:C:H4'	39:BQ:90:ARG:CG	2.23	0.68
25:BA:388:G:H1'	25:BA:390:A:H62	1.56	0.68
25:BA:452:G:N2	25:BA:458:G:N2	2.41	0.68
25:BA:475:U:C5	25:BA:481:G:N1	2.61	0.68
25:BA:539:G:C2	25:BA:540:G:N7	2.62	0.68
25:BA:610:C:N4	25:BA:618(A):C:H42	1.91	0.68
25:BA:645:C:H5'	25:BA:646:A:OP1	1.93	0.68
25:BA:917:A:H2'	25:BA:918:A:C5'	2.22	0.68
28:BD:136:ILE:HG21	28:BD:165:ILE:CG2	2.24	0.68
28:BD:221:VAL:C	28:BD:222:ARG:HG3	2.14	0.68
28:BD:95:LEU:HB2	28:BD:105:ILE:HG22	1.76	0.68
29:BE:54:GLN:HG3	29:BE:56:PRO:HD2	1.75	0.68
31:BG:14:GLU:CD	31:BG:15:VAL:N	2.47	0.68
25:BA:2305:A:N6	31:BG:43:LEU:CD2	2.56	0.68
31:BG:2:PRO:O	31:BG:5:VAL:HB	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:75:LYS:O	31:BG:83:ARG:HA	1.92	0.68
32:BH:153:LYS:HB2	32:BH:162:ILE:HG23	1.74	0.68
32:BH:7:LEU:H	32:BH:8:PRO:CD	2.06	0.68
33:BK:7:GLU:HA	33:BK:14:ASP:OD2	1.92	0.68
35:BM:78:TYR:HD1	35:BM:79:PRO:CD	2.03	0.68
36:BN:39:ILE:CG1	36:BN:59:LYS:HZ1	2.01	0.68
36:BN:90:GLN:O	36:BN:91:LEU:C	2.31	0.68
39:BQ:55:ALA:HB2	39:BQ:79:LEU:HD11	1.75	0.68
40:BR:52:SER:CB	40:BR:73:LEU:HD11	2.18	0.68
42:BT:101:ARG:HH11	42:BT:101:ARG:HB3	1.53	0.68
47:BY:98:MET:CE	47:BY:100:VAL:HG13	2.23	0.68
33:BK:67:ARG:O	33:BK:71:ILE:HG13	1.93	0.68
47:BY:157:LEU:CD2	47:BY:158:PRO:HD2	2.15	0.68
25:BA:1079:C:C2'	25:BA:1080:C:H5'	2.24	0.68
34:BL:35:MET:CA	34:BL:38:VAL:HB	2.24	0.68
15:AO:126:LYS:HD2	15:AO:126:LYS:C	2.13	0.68
26:BB:117:G:C2	26:BB:118:G:C8	2.81	0.68
4:A1:14:A:O3'	4:A1:15:A:O4'	2.11	0.68
1:AA:1095:U:C5'	1:AA:1109:C:N3	2.57	0.68
1:AA:1213:A:H2'	1:AA:1215:G:N7	2.09	0.68
1:AA:1265:G:C6	1:AA:1266:G:N3	2.62	0.68
1:AA:1333:A:O2'	1:AA:1334:G:H5'	1.94	0.68
1:AA:1319:A:C2	1:AA:1361:G:N2	2.61	0.68
1:AA:173:U:C4'	1:AA:197:A:C1'	2.70	0.68
1:AA:301:G:N2	1:AA:302:G:C4	2.62	0.68
1:AA:468:A:H1'	19:AS:82:GLN:HG2	1.76	0.68
1:AA:737:A:H2'	1:AA:738:C:C6	2.29	0.68
1:AA:741:G:O2'	1:AA:742:G:H5'	1.94	0.68
5:AE:153:ARG:HH22	5:AE:156:LYS:HB2	1.59	0.68
5:AE:97:TRP:CE2	5:AE:99:GLY:HA3	2.28	0.68
6:AF:76:VAL:O	6:AF:83:ARG:HG2	1.92	0.68
7:AG:101:LEU:HD11	7:AG:121:VAL:CG1	2.23	0.68
7:AG:26:CYS:HA	7:AG:31:CYS:CB	2.23	0.68
7:AG:55:ALA:O	7:AG:59:ARG:CG	2.41	0.68
7:AG:79:PHE:HB2	7:AG:93:PHE:CE1	2.28	0.68
10:AJ:5:ARG:HB3	10:AJ:5:ARG:CZ	2.22	0.68
11:AK:18:ARG:CG	11:AK:18:ARG:HH11	2.07	0.68
11:AK:6:ILE:C	11:AK:6:ILE:HD13	2.14	0.68
12:AL:97:LYS:HB3	12:AL:98:PRO:HD3	1.75	0.68
15:AO:113:ARG:HH12	15:AO:115:LYS:HB2	1.58	0.68
16:AP:16:ASP:OD1	16:AP:34:LEU:HD11	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:54:VAL:HG13	16:AP:58:GLU:OE1	1.93	0.68
13:AM:49:VAL:HG12	17:AQ:45:ARG:HD2	1.76	0.68
6:AF:33:LEU:HD13	17:AQ:53:LEU:HD22	1.76	0.68
20:AT:4:LYS:HD2	20:AT:5:VAL:N	2.06	0.68
21:AU:46:GLU:C	21:AU:48:GLY:N	2.46	0.68
22:AV:36:ARG:HB2	22:AV:71:LEU:CB	2.23	0.68
23:AW:79:ARG:HG3	23:AW:79:ARG:HH11	1.59	0.68
45:BW:5:TYR:CD2	49:B1:24:LYS:NZ	2.53	0.68
25:BA:95:G:H4'	49:B1:39:LEU:C	2.12	0.68
25:BA:2045:C:O2	52:B4:22:HIS:ND1	2.27	0.68
54:B6:20:ALA:CA	54:B6:23:ARG:NH2	2.56	0.68
25:BA:1025:G:C1'	25:BA:1134:G:H4'	2.15	0.68
25:BA:1477:A:C2	25:BA:1478:G:N2	2.62	0.68
25:BA:1639:U:C2'	25:BA:1640:C:H5''	2.23	0.68
25:BA:1651:G:H2'	25:BA:1652:A:H8	1.52	0.68
25:BA:1766:U:O2'	25:BA:1767:C:H5'	1.94	0.68
25:BA:1807:G:H21	25:BA:1809:A:H5'	1.58	0.68
25:BA:1913:A:C4	25:BA:1918:A:C6	2.82	0.68
25:BA:2057:A:H1'	52:B4:4:HIS:O	1.93	0.68
25:BA:2075:U:H3	25:BA:2238:G:H1	1.40	0.68
25:BA:2406:U:H2'	25:BA:2406:U:O2	1.92	0.68
25:BA:2466:C:N4	25:BA:2467:C:N4	2.42	0.68
25:BA:2470:G:HO2'	25:BA:2471:C:H6	1.42	0.68
25:BA:2793:G:C6	25:BA:2794:C:N4	2.62	0.68
25:BA:459:U:H6	25:BA:469:G:N2	1.91	0.68
25:BA:67:U:H2'	25:BA:68:G:H8	1.58	0.68
25:BA:782:A:C2	28:BD:231:HIS:NE2	2.61	0.68
25:BA:817:C:C2	25:BA:1191:G:N2	2.62	0.68
25:BA:832:G:H2'	25:BA:833:U:C5	2.29	0.68
25:BA:872:A:O2'	38:BP:66:ILE:HD13	1.93	0.68
25:BA:967:C:H2'	25:BA:968:G:H8	1.57	0.68
25:BA:977:G:H2'	25:BA:978:G:O4'	1.94	0.68
27:BC:131:LEU:HB2	27:BC:137:LEU:HB2	1.74	0.68
29:BE:128:SER:OG	29:BE:129:HIS:N	2.23	0.68
29:BE:144:ARG:O	29:BE:146:THR:N	2.26	0.68
29:BE:66:HIS:O	29:BE:67:PHE:C	2.31	0.68
29:BE:98:PRO:HD3	29:BE:175:VAL:CG2	2.23	0.68
30:BF:171:PRO:HB2	30:BF:172:TRP:CE3	2.28	0.68
30:BF:34:TRP:O	30:BF:37:VAL:N	2.26	0.68
31:BG:136:ARG:O	31:BG:153:ARG:HG2	1.92	0.68
31:BG:78:SER:HB3	31:BG:82:LEU:HG	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:88:ILE:O	31:BG:88:ILE:HG22	1.94	0.68
35:BM:74:ARG:O	35:BM:74:ARG:HG2	1.94	0.68
36:BN:52:VAL:CG2	36:BN:53:LYS:N	2.56	0.68
37:BO:70:GLN:HA	37:BO:110:TYR:OH	1.93	0.68
38:BP:110:THR:HG22	38:BP:110:THR:O	1.92	0.68
38:BP:65:PHE:H	38:BP:105:GLU:CB	2.07	0.68
39:BQ:10:LEU:HD12	39:BQ:17:ARG:HD3	1.75	0.68
40:BR:29:PHE:O	40:BR:29:PHE:CD1	2.46	0.68
40:BR:67:ARG:NE	40:BR:71:ARG:HG2	2.08	0.68
41:BS:23:ARG:NH2	41:BS:90:GLN:N	2.24	0.68
43:BU:2:PHE:O	43:BU:43:GLU:O	2.12	0.68
42:BT:88:ILE:HB	43:BU:52:VAL:O	1.94	0.68
43:BU:61:VAL:O	43:BU:99:ILE:CB	2.40	0.68
45:BW:27:THR:CA	45:BW:80:ILE:HD12	2.23	0.68
47:BY:111:VAL:CG2	47:BY:117:LEU:HD23	2.23	0.68
48:BZ:50:ASN:HB3	48:BZ:63:VAL:CG2	2.23	0.68
48:BZ:53:MET:HE3	48:BZ:57:PHE:HA	1.75	0.68
25:BA:1085:A:O2'	25:BA:1086:A:C4'	2.40	0.68
25:BA:1092:C:H6	25:BA:1092:C:H3'	1.57	0.68
8:AH:87:SER:CB	8:AH:131:ILE:HG12	2.22	0.68
1:AA:1081:G:OP2	8:AH:27:ARG:NH1	2.25	0.68
1:AA:1148:U:O2	1:AA:1149:C:O4'	2.12	0.68
1:AA:175:C:O2'	1:AA:176:C:H5'	1.92	0.68
1:AA:503:C:C2	1:AA:504:C:C5	2.82	0.68
1:AA:50:A:H5''	1:AA:51:A:H5'	1.74	0.68
1:AA:623:C:O2'	1:AA:624:C:H5'	1.93	0.68
1:AA:642:A:C2	11:AK:113:SER:O	2.47	0.68
1:AA:692:U:H2'	1:AA:694:A:OP2	1.92	0.68
3:AD:14:A:C2	3:AD:15:G:N7	2.61	0.68
5:AE:15:VAL:HG23	5:AE:16:HIS:ND1	2.09	0.68
5:AE:82:ARG:HA	5:AE:92:TYR:CZ	2.29	0.68
7:AG:63:LYS:HG3	7:AG:198:VAL:CG1	2.23	0.68
8:AH:17:ALA:HA	8:AH:26:PHE:HB3	1.76	0.68
1:AA:1349:A:OP1	12:AL:118:LYS:HB3	1.93	0.68
14:AN:32:ILE:HD12	14:AN:41:THR:OG1	1.92	0.68
14:AN:67:ASP:HA	14:AN:70:LYS:CD	2.24	0.68
21:AU:66:LEU:CD1	21:AU:67:ALA:N	2.55	0.68
24:AX:12:LYS:HE3	24:AX:21:TYR:HB2	1.75	0.68
50:B2:32:GLN:OE1	50:B2:32:GLN:HA	1.93	0.68
50:B2:6:VAL:HB	50:B2:35:ARG:HH21	1.58	0.68
52:B4:32:PRO:HA	52:B4:38:ALA:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B5:48:VAL:O	53:B5:49:HIS:CB	2.35	0.68
25:BA:126:A:H5'	54:B6:47:ARG:HH22	1.59	0.68
25:BA:1203:G:O6	25:BA:1240:U:H2'	1.93	0.68
25:BA:1204:A:N1	30:BF:188:ARG:CA	2.45	0.68
25:BA:1335:U:O2'	25:BA:1336:A:H5'	1.93	0.68
25:BA:1491:G:H2'	25:BA:1492:G:O3'	1.93	0.68
25:BA:1676:A:N7	25:BA:1677:A:N7	2.42	0.68
25:BA:1784:A:C4'	25:BA:1785:A:C8	2.77	0.68
25:BA:1988:C:C2'	25:BA:1989:G:O5'	2.41	0.68
25:BA:253:C:H2'	25:BA:254:G:H5'	1.75	0.68
25:BA:337:C:C2'	25:BA:338:G:H5''	2.16	0.68
25:BA:364:C:C2'	25:BA:365:C:C5	2.70	0.68
25:BA:450:G:H3'	25:BA:451:C:C5'	2.24	0.68
25:BA:472:A:C2'	25:BA:473:G:C5'	2.72	0.68
25:BA:986:C:C6	25:BA:986:C:O5'	2.47	0.68
27:BC:130:ILE:O	27:BC:134:ARG:CZ	2.42	0.68
27:BC:214:VAL:HG23	27:BC:224:ILE:HG21	1.76	0.68
27:BC:26:ALA:O	27:BC:29:VAL:HG12	1.94	0.68
27:BC:4:GLY:O	27:BC:5:LYS:HG3	1.93	0.68
28:BD:63:ARG:CG	28:BD:65:ILE:HD11	2.21	0.68
28:BD:94:LEU:HD12	28:BD:94:LEU:C	2.14	0.68
35:BM:126:PRO:HG2	35:BM:128:HIS:HB2	1.74	0.68
36:BN:77:ILE:HG12	41:BS:75:ILE:CD1	2.24	0.68
25:BA:811:U:O4	37:BO:22:GLY:C	2.32	0.68
38:BP:34:LEU:O	38:BP:103:MET:CB	2.37	0.68
38:BP:130:LYS:HE2	38:BP:132:VAL:HG13	1.75	0.68
38:BP:37:LEU:HB3	38:BP:38:GLU:OE2	1.92	0.68
38:BP:67:ARG:CG	38:BP:68:ILE:H	1.98	0.68
39:BQ:13:HIS:CB	39:BQ:16:HIS:CD2	2.62	0.68
39:BQ:20:LEU:CD2	39:BQ:24:GLN:HG3	2.24	0.68
40:BR:24:LEU:O	40:BR:86:ALA:HB1	1.93	0.68
36:BN:76:ALA:HA	41:BS:77:PRO:CD	2.24	0.68
41:BS:7:ILE:O	41:BS:8:LYS:C	2.32	0.68
42:BT:111:GLU:O	42:BT:114:LYS:HG2	1.94	0.68
42:BT:53:ARG:HA	42:BT:56:ASP:OD2	1.94	0.68
45:BW:50:LYS:HG3	45:BW:85:PRO:CD	2.24	0.68
47:BY:9:TYR:CB	47:BY:14:LYS:HG2	2.24	0.68
25:BA:2602:A:N9	48:BZ:2:ALA:HB2	2.09	0.68
33:BK:57:ARG:HG2	33:BK:61:ARG:NH2	2.08	0.68
25:BA:1071:G:H2'	25:BA:1072:C:C5'	2.23	0.68
25:BA:1071:G:C3'	25:BA:1072:C:H5'	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:562:C:H2'	15:AO:15:ARG:HB3	1.76	0.68
1:AA:1181:G:H2'	1:AA:1182:G:O4'	1.94	0.68
1:AA:1188:A:H3'	1:AA:1189:C:H5	1.58	0.68
1:AA:160:A:C2	1:AA:343:U:H1'	2.28	0.68
1:AA:573:A:C2	1:AA:574:A:C6	2.82	0.68
2:AC:17:C:H5''	2:AC:19:G:OP2	1.93	0.68
3:AD:21:A:N6	3:AD:48:C:OP2	2.27	0.68
1:AA:495:A:H61	7:AG:123:HIS:CE1	2.12	0.68
7:AG:34:GLU:OE1	7:AG:35:ARG:N	2.26	0.68
7:AG:62:GLN:O	7:AG:66:ARG:HD2	1.94	0.68
9:AI:64:GLN:O	9:AI:65:VAL:HG12	1.93	0.68
1:AA:737:A:O2'	9:AI:72:VAL:HG21	1.94	0.68
11:AK:118:VAL:C	11:AK:119:LEU:HD22	2.13	0.68
11:AK:9:MET:HG2	11:AK:13:ILE:HD12	1.75	0.68
11:AK:14:ARG:HH11	11:AK:14:ARG:CB	2.03	0.68
1:AA:878:G:H5''	11:AK:89:PRO:O	1.93	0.68
16:AP:15:VAL:HG11	16:AP:39:ILE:CD1	2.24	0.68
19:AS:8:ARG:HH12	19:AS:11:SER:N	1.92	0.68
55:B7:34:TRP:CE3	55:B7:36:LYS:HD3	2.29	0.68
55:B7:30:ARG:HD2	55:B7:44:LYS:HD2	1.75	0.68
25:BA:1135:C:O2'	25:BA:1136:G:H5'	1.94	0.68
25:BA:1343:G:H2'	25:BA:1384:A:H2	1.59	0.68
25:BA:1345:C:O4'	25:BA:1396:U:H5	1.77	0.68
25:BA:1538:G:N2	25:BA:1539:G:N3	2.41	0.68
25:BA:1576:U:H2'	25:BA:1577:C:C6	2.28	0.68
25:BA:1616:A:H4'	25:BA:1617:C:OP1	1.93	0.68
25:BA:1667:G:N3	25:BA:1667:G:H2'	2.08	0.68
25:BA:1814:G:H1'	28:BD:52:ARG:HH22	1.55	0.68
25:BA:1826:G:H2'	25:BA:1827:C:H5'	1.75	0.68
25:BA:1887:C:O2'	25:BA:1888:G:H5'	1.94	0.68
25:BA:2125:G:H22	25:BA:2172:U:H5'	1.58	0.68
25:BA:2134:A:C2	25:BA:2135:A:N1	2.62	0.68
25:BA:2210:G:N7	28:BD:150:LYS:O	2.27	0.68
25:BA:228:A:C8	25:BA:230:U:OP1	2.46	0.68
25:BA:2394:C:N4	25:BA:2422:A:C6	2.62	0.68
25:BA:2468:G:H8	25:BA:2476:A:N1	1.92	0.68
25:BA:259:G:H2'	25:BA:260:G:H8	1.58	0.68
25:BA:2880:C:O2'	39:BQ:90:ARG:CD	2.42	0.68
25:BA:324:A:C8	25:BA:340:A:N3	2.62	0.68
25:BA:388:G:H2'	25:BA:390:A:C5	2.28	0.68
25:BA:545:G:O5'	25:BA:545:G:H8	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:975:G:N1	25:BA:976:C:C5	2.61	0.68
27:BC:195:ALA:O	27:BC:198:ALA:HB3	1.93	0.68
27:BC:33:ALA:O	27:BC:39:GLU:HB2	1.93	0.68
27:BC:64:LEU:HD13	27:BC:188:ASN:ND2	2.05	0.68
28:BD:125:ILE:O	28:BD:125:ILE:HG22	1.94	0.68
25:BA:1798:U:H5''	28:BD:257:LEU:HB2	1.76	0.68
31:BG:19:LEU:N	31:BG:19:LEU:HD12	2.09	0.68
31:BG:32:PRO:O	31:BG:172:LEU:HD22	1.94	0.68
36:BN:4:PRO:HG2	36:BN:5:GLN:N	2.07	0.68
37:BO:78:PRO:O	37:BO:81:GLN:HB2	1.93	0.68
39:BQ:63:ARG:NH2	39:BQ:77:ARG:HG2	2.09	0.68
41:BS:65:LYS:HE2	41:BS:75:ILE:CD1	2.24	0.68
42:BT:44:ASN:HD22	43:BU:78:LYS:N	1.86	0.68
42:BT:83:LEU:HD11	42:BT:95:LEU:CD1	2.24	0.68
25:BA:1187:G:H5''	43:BU:83:ARG:NH1	2.07	0.68
25:BA:751:A:H5'	44:BV:90:ARG:NH1	2.07	0.68
34:BL:113:PRO:O	34:BL:115:LEU:N	2.25	0.68
34:BL:78:ILE:HG22	34:BL:79:ARG:N	2.08	0.68
1:AA:96:G:H2'	1:AA:97:U:O4'	1.94	0.68
1:AA:1095:U:H5''	1:AA:1109:C:N3	2.09	0.68
1:AA:1419:G:O6	1:AA:1482:G:C6	2.46	0.68
1:AA:1404:C:C1'	1:AA:1499:A:C2	2.76	0.68
1:AA:141:A:H1'	1:AA:182:U:H1'	1.76	0.68
1:AA:498:A:N1	1:AA:546:G:O2'	2.19	0.68
1:AA:939:G:H5''	10:AJ:102:ARG:HH22	1.59	0.68
1:AA:979:C:H2'	1:AA:980:C:H5'	1.76	0.68
5:AE:53:ARG:O	5:AE:56:ARG:NH1	2.27	0.68
6:AF:153:VAL:HG23	6:AF:166:GLU:HB3	1.74	0.68
6:AF:182:ILE:HG23	6:AF:203:PHE:CA	2.18	0.68
6:AF:59:ARG:NE	6:AF:64:VAL:HA	2.08	0.68
10:AJ:108:ALA:HB2	10:AJ:123:GLU:HG2	1.76	0.68
12:AL:37:PHE:N	12:AL:37:PHE:CD2	2.59	0.68
12:AL:9:ARG:O	12:AL:104:ARG:HG2	1.93	0.68
13:AM:79:ARG:NH2	13:AM:82:ILE:HB	2.08	0.68
14:AN:99:GLN:HA	14:AN:105:VAL:HG22	1.74	0.68
16:AP:24:GLY:O	16:AP:29:ARG:HD2	1.93	0.68
16:AP:29:ARG:HD3	16:AP:64:TRP:CZ2	2.27	0.68
16:AP:71:ARG:CB	16:AP:71:ARG:HH11	2.02	0.68
21:AU:86:VAL:O	21:AU:87:ARG:CB	2.40	0.68
55:B7:30:ARG:CA	55:B7:34:TRP:HE1	2.07	0.68
25:BA:1437:C:O2'	25:BA:1516:U:O2'	2.10	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1444:G:H3'	25:BA:1445:C:C4	2.28	0.68
25:BA:152:G:H2'	25:BA:153:C:O4'	1.94	0.68
25:BA:1534:G:N2	25:BA:1537:C:H41	1.92	0.68
25:BA:1711:C:H2'	25:BA:1712:C:H6	1.56	0.68
25:BA:1790:C:H1'	28:BD:213:ARG:NH2	2.09	0.68
25:BA:1819:A:H5''	28:BD:178:PRO:CG	2.24	0.68
25:BA:1842:G:H2'	25:BA:1843:C:C6	2.28	0.68
25:BA:1911:U:C2'	25:BA:1912:A:H5'	2.24	0.68
25:BA:2002:G:C2'	25:BA:2003:G:H5'	2.22	0.68
25:BA:2052:G:H1'	29:BE:150:VAL:N	2.08	0.68
25:BA:2283:C:N3	25:BA:2389:G:N2	2.40	0.68
25:BA:2327:A:C2'	25:BA:2328:A:C8	2.71	0.68
25:BA:247:G:C5	25:BA:249:C:O2	2.47	0.68
25:BA:2485:G:O2'	25:BA:2486:G:H5'	1.94	0.68
25:BA:2681:C:HO2'	25:BA:2682:U:H6	1.40	0.68
25:BA:2687:U:H3	25:BA:2688:U:H6	1.30	0.68
25:BA:300:A:O2'	25:BA:318:C:H1'	1.93	0.68
25:BA:332:A:O2'	25:BA:334:C:OP2	2.11	0.68
25:BA:366:C:H5''	25:BA:403:U:N3	2.05	0.68
25:BA:46:C:N4	25:BA:214:G:C8	2.61	0.68
25:BA:684:G:C6	25:BA:775:G:N7	2.62	0.68
25:BA:84:A:C5'	46:BX:8:LYS:HE2	2.24	0.68
25:BA:663:G:O2'	25:BA:940:G:H4'	1.92	0.68
25:BA:987:G:H2'	25:BA:988:A:C5'	2.23	0.68
26:BB:9:G:H2'	26:BB:9:G:N3	2.08	0.68
27:BC:134:ARG:HB2	27:BC:136:LEU:HD12	1.75	0.68
27:BC:153:ILE:HD12	27:BC:153:ILE:H	1.59	0.68
28:BD:134:ARG:HA	28:BD:168:ARG:NH1	2.08	0.68
25:BA:2512:C:C5'	29:BE:120:TRP:HH2	2.05	0.68
30:BF:50:SER:O	30:BF:92:PRO:HG2	1.93	0.68
30:BF:93:LYS:O	30:BF:94:PRO:C	2.32	0.68
31:BG:47:LYS:HG3	31:BG:48:GLU:N	2.09	0.68
32:BH:164:TYR:CE2	32:BH:167:GLU:HG2	2.28	0.68
32:BH:42:ARG:O	32:BH:53:GLU:HG2	1.93	0.68
32:BH:83:TYR:HD2	32:BH:84:SER:N	1.91	0.68
36:BN:112:MET:HA	36:BN:115:VAL:CG2	2.24	0.68
36:BN:7:TYR:HD1	36:BN:18:LYS:HZ1	1.41	0.68
38:BP:39:PRO:HB3	38:BP:127:ILE:HG12	1.76	0.68
38:BP:46:GLN:OE1	38:BP:126:PRO:HD3	1.94	0.68
41:BS:8:LYS:O	41:BS:12:SER:OG	2.12	0.68
41:BS:87:ASP:OD2	41:BS:89:VAL:HG23	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:62:ILE:CG2	42:BT:66:ASN:HD21	2.06	0.68
43:BU:22:VAL:HG12	43:BU:24:LYS:CE	2.23	0.68
47:BY:144:LEU:C	47:BY:174:VAL:HG21	2.14	0.68
33:BK:76:THR:HG22	33:BK:141:LYS:CE	2.24	0.68
1:AA:1539:C:H2'	1:AA:1540:U:H5''	1.76	0.68
1:AA:562:C:O2	1:AA:562:C:H2'	1.92	0.68
1:AA:1064:G:N3	1:AA:1066:C:N4	2.42	0.68
1:AA:1078:U:C5	1:AA:1079:G:C5	2.81	0.68
1:AA:115:G:O2'	1:AA:116:A:OP2	2.11	0.68
1:AA:1180:A:C2'	1:AA:1181:G:H5'	2.22	0.68
1:AA:166:G:O2'	1:AA:167:G:O5'	2.08	0.68
1:AA:494:U:H2'	1:AA:495:A:O5'	1.93	0.68
1:AA:59:A:C2	1:AA:331:G:N3	2.62	0.68
1:AA:5:U:C4	7:AG:86:LYS:HD3	2.29	0.68
1:AA:668:G:HO2'	18:AR:46:HIS:CD2	2.12	0.68
5:AE:178:ARG:HH21	5:AE:196:LEU:HB2	1.55	0.68
6:AF:22:TRP:CZ2	6:AF:33:LEU:HG	2.29	0.68
8:AH:28:PHE:HZ	8:AH:50:GLU:HA	1.56	0.68
8:AH:43:LEU:H	8:AH:65:ASN:ND2	1.90	0.68
9:AI:79:LEU:HB2	9:AI:88:VAL:HG21	1.76	0.68
11:AK:109:ILE:HG23	11:AK:137:VAL:O	1.93	0.68
12:AL:16:ARG:HB3	12:AL:64:THR:OG1	1.93	0.68
12:AL:27:THR:HG21	12:AL:62:TYR:HE1	1.57	0.68
17:AQ:25:VAL:HG12	17:AQ:39:LEU:HD23	1.74	0.68
49:B1:23:LYS:NZ	49:B1:55:LEU:HD21	2.08	0.68
51:B3:21:VAL:CG1	51:B3:23:GLU:HG3	2.24	0.68
25:BA:1196:C:H2'	25:BA:1197:G:C8	2.28	0.68
25:BA:1309:G:O2'	25:BA:1310:G:H5'	1.92	0.68
25:BA:1313:U:OP2	25:BA:1313:U:C5	2.46	0.68
25:BA:1344:G:N2	25:BA:1404:C:H1'	2.09	0.68
25:BA:1592:C:H2'	25:BA:1593:G:C8	2.29	0.68
25:BA:1811:G:H2'	25:BA:1812:A:H8	1.59	0.68
25:BA:1913:A:N3	25:BA:1916:A:C2	2.62	0.68
25:BA:1924:C:H2'	25:BA:1925:C:H6	1.59	0.68
25:BA:1988:C:O2'	25:BA:1989:G:H5'	1.94	0.68
25:BA:2085:C:O2'	25:BA:2086:U:H5'	1.93	0.68
25:BA:2208:U:C2'	25:BA:2209:C:H5'	2.24	0.68
25:BA:2282:G:C1'	25:BA:2390:U:O4	2.41	0.68
25:BA:2291:U:O5'	25:BA:2291:U:H6	1.77	0.68
25:BA:2336:A:H2	48:BZ:57:PHE:CZ	2.03	0.68
25:BA:2512:C:H5''	29:BE:120:TRP:CZ2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2514:U:C2	25:BA:2515:C:C5	2.82	0.68
25:BA:2525:G:C2	25:BA:2526:G:N7	2.62	0.68
25:BA:2706:G:C2'	25:BA:2707:G:O5'	2.39	0.68
25:BA:271(B):G:H5''	25:BA:271(C):U:C5'	2.24	0.68
25:BA:29:U:C2'	25:BA:30:G:C8	2.72	0.68
25:BA:624:C:OP2	37:BO:105:LEU:HD22	1.93	0.68
25:BA:723:G:N2	25:BA:724:U:H1'	2.09	0.68
25:BA:774:A:O2'	25:BA:775:G:H8	1.77	0.68
25:BA:790:C:H2'	25:BA:791:C:OP1	1.94	0.68
26:BB:68:C:C2	26:BB:69:G:C8	2.81	0.68
28:BD:63:ARG:NH1	28:BD:87:ASN:ND2	2.42	0.68
29:BE:156:MET:HG3	29:BE:157:ALA:H	1.57	0.68
32:BH:8:PRO:N	32:BH:69:ARG:HH11	1.91	0.68
36:BN:14:THR:CA	36:BN:52:VAL:HG11	2.24	0.68
36:BN:15:GLY:HA3	36:BN:47:ILE:CB	2.23	0.68
38:BP:12:GLN:O	38:BP:12:GLN:NE2	2.27	0.68
41:BS:103:ARG:C	41:BS:105:LEU:N	2.44	0.68
41:BS:104:ASN:O	41:BS:105:LEU:O	2.12	0.68
41:BS:50:ILE:HG22	41:BS:67:SER:O	1.94	0.68
42:BT:50:ARG:NH1	42:BT:50:ARG:CB	2.40	0.68
44:BV:88:ARG:CB	44:BV:92:ARG:HH11	2.07	0.68
46:BX:14:LEU:HD21	46:BX:19:LYS:HE3	1.76	0.68
46:BX:45:VAL:CG1	46:BX:57:GLN:HE22	2.01	0.68
47:BY:146:ILE:C	47:BY:148:ASP:H	1.98	0.68
48:BZ:50:ASN:O	48:BZ:81:VAL:HG21	1.94	0.68
15:AO:126:LYS:CE	15:AO:126:LYS:H	2.02	0.68
32:BH:27:LYS:HZ2	32:BH:32:GLU:HB2	1.59	0.68
1:AA:748:C:C6	1:AA:748:C:C3'	2.77	0.68
26:BB:93:C:H2'	26:BB:94:C:C6	2.29	0.68
1:AA:1203:C:O2'	1:AA:1204:A:H5'	1.94	0.68
1:AA:1305:G:H2'	1:AA:1331:G:H22	1.57	0.68
1:AA:1399:C:O2'	1:AA:1400:C:OP2	2.10	0.68
1:AA:684:A:H4'	14:AN:12:ARG:NH2	2.07	0.68
1:AA:992:U:H4'	1:AA:993:G:O5'	1.94	0.68
2:AC:15:G:N2	2:AC:59:A:C6	2.61	0.68
3:AD:9:A:H62	3:AD:23:A:H62	1.41	0.68
8:AH:52:PRO:O	8:AH:55:VAL:HB	1.93	0.68
10:AJ:51:GLN:OE1	10:AJ:58:PRO:HD2	1.94	0.68
14:AN:59:TYR:O	14:AN:62:GLN:NE2	2.27	0.68
16:AP:56:LEU:O	16:AP:59:TYR:HB3	1.93	0.68
18:AR:35:ARG:NH1	18:AR:59:MET:HG3	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:67:THR:HB	19:AS:70:ALA:N	2.09	0.68
1:AA:1314:C:OP2	22:AV:6:LYS:HG2	1.94	0.68
49:B1:38:GLN:H	49:B1:41:GLN:CD	1.98	0.68
50:B2:7:LYS:HE2	50:B2:8:LEU:O	1.93	0.68
51:B3:42:PHE:CZ	51:B3:43:TYR:O	2.47	0.68
25:BA:1128:A:O2'	25:BA:1129:A:O5'	2.10	0.68
25:BA:1274:A:C2	25:BA:1297:C:O2	2.47	0.68
25:BA:1291:C:O2'	25:BA:1292:U:H5'	1.93	0.68
25:BA:1475:G:N7	25:BA:1517:G:N1	2.42	0.68
25:BA:1476:C:N4	25:BA:1516:U:O2'	2.26	0.68
25:BA:1609:A:N3	25:BA:1609:A:H3'	2.08	0.68
25:BA:1657:C:O2'	25:BA:1658:C:H5'	1.93	0.68
25:BA:1678:G:O5'	25:BA:1678:G:H8	1.77	0.68
25:BA:1699:G:O2'	25:BA:1700:A:OP1	2.11	0.68
25:BA:1754:C:N4	25:BA:1755:A:C6	2.62	0.68
25:BA:1770:G:O6	25:BA:1983:C:N4	2.27	0.68
25:BA:2106:G:O2'	25:BA:2107:C:H5'	1.94	0.68
25:BA:2346:A:H61	53:B5:37:ARG:HH22	1.42	0.68
25:BA:296:C:OP2	25:BA:338:G:N1	2.27	0.68
25:BA:442:G:H4'	30:BF:46:ARG:CG	2.20	0.68
25:BA:549:G:H2'	25:BA:550:G:C8	2.28	0.68
25:BA:600:G:N2	25:BA:604:G:H4'	2.09	0.68
25:BA:685:A:H1'	25:BA:688:U:O4	1.92	0.68
25:BA:702:G:N2	25:BA:703:U:H1'	2.09	0.68
25:BA:729:G:C5	25:BA:730:C:C6	2.82	0.68
25:BA:85:G:OP2	46:BX:28:LYS:NZ	2.20	0.68
25:BA:917:A:C2	25:BA:918:A:C4	2.82	0.68
26:BB:80:U:H2'	26:BB:81:G:C8	2.29	0.68
26:BB:99:A:H8	26:BB:99:A:H5''	1.59	0.68
27:BC:39:GLU:HG2	27:BC:41:VAL:CG2	2.24	0.68
28:BD:159:ALA:CB	28:BD:202:LYS:NZ	2.57	0.68
28:BD:69:ARG:C	28:BD:71:ASP:H	1.94	0.68
29:BE:51:PHE:CD1	29:BE:51:PHE:C	2.65	0.68
29:BE:49:LEU:HD11	29:BE:51:PHE:HD1	1.58	0.68
29:BE:55:ASN:HA	29:BE:73:GLU:OE1	1.94	0.68
29:BE:9:VAL:O	29:BE:24:THR:HB	1.94	0.68
30:BF:160:ASN:CG	30:BF:163:VAL:HB	2.13	0.68
30:BF:19:GLU:C	30:BF:20:LEU:CD2	2.45	0.68
36:BN:24:VAL:HG11	36:BN:32:TYR:H	1.56	0.68
36:BN:9:GLU:O	36:BN:82:ASN:CA	2.42	0.68
37:BO:7:ARG:HD3	37:BO:8:PRO:HD3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:71:ASP:HB2	38:BP:95:ALA:HA	1.76	0.68
39:BQ:13:HIS:HD2	39:BQ:16:HIS:ND1	1.91	0.68
39:BQ:58:GLY:O	39:BQ:59:ASP:CB	2.42	0.68
40:BR:19:LYS:O	40:BR:20:ARG:C	2.32	0.68
43:BU:49:THR:CG2	43:BU:50:PRO:HD2	2.23	0.68
44:BV:12:ILE:CD1	44:BV:12:ILE:H	1.98	0.68
47:BY:57:ILE:HG13	47:BY:70:LEU:HG	1.75	0.68
48:BZ:44:ARG:HE	48:BZ:77:ARG:NE	1.90	0.68
33:BK:88:ILE:CD1	33:BK:88:ILE:H	2.06	0.68
1:AA:1443:G:O3'	1:AA:1446:A:H4'	1.93	0.68
1:AA:1044:A:H2'	1:AA:1045:C:O4'	1.92	0.68
1:AA:1093:A:H2'	1:AA:1095:U:C5	2.29	0.67
1:AA:1269:A:H8	1:AA:1270:C:C1'	2.07	0.67
1:AA:1347:G:C8	12:AL:107:ARG:HD2	2.30	0.67
1:AA:186(D):C:H2'	1:AA:186(E):C:H6	1.60	0.67
1:AA:484:G:C8	1:AA:486:U:C4	2.81	0.67
1:AA:440:A:H61	1:AA:494:U:H5	1.40	0.67
1:AA:607:A:C2	1:AA:608:A:C1'	2.76	0.67
1:AA:775:G:N3	1:AA:776:G:C8	2.62	0.67
1:AA:828:A:C8	1:AA:829:G:C8	2.82	0.67
1:AA:836:G:P	21:AU:61:LYS:HZ1	2.18	0.67
1:AA:949:A:H4'	1:AA:1364:U:O4	1.93	0.67
1:AA:988:G:H2'	1:AA:989:C:O4'	1.94	0.67
5:AE:208:ILE:CD1	5:AE:239:VAL:HG11	2.24	0.67
6:AF:180:ALA:O	6:AF:203:PHE:HE1	1.77	0.67
7:AG:206:PHE:HD2	7:AG:207:TYR:N	1.91	0.67
7:AG:71:SER:O	7:AG:75:PHE:HB2	1.94	0.67
11:AK:98:LYS:NZ	11:AK:98:LYS:C	2.47	0.67
12:AL:117:HIS:CD2	12:AL:121:ARG:HG2	2.22	0.67
14:AN:123:LYS:O	14:AN:126:ARG:HB2	1.94	0.67
14:AN:14:VAL:O	14:AN:14:VAL:HG12	1.94	0.67
15:AO:27:LEU:HD23	15:AO:33:ARG:HD2	1.73	0.67
1:AA:519:C:H5'	15:AO:51:ALA:HB2	1.76	0.67
15:AO:92:ASP:HB3	15:AO:93:LEU:HD23	1.76	0.67
16:AP:40:ASN:C	16:AP:42:ALA:H	1.98	0.67
16:AP:91:ARG:HB3	16:AP:98:VAL:CG2	2.22	0.67
18:AR:15:PHE:O	18:AR:16:ALA:C	2.32	0.67
18:AR:56:LEU:O	18:AR:60:VAL:HG23	1.94	0.67
19:AS:62:VAL:O	19:AS:64:ALA:N	2.23	0.67
49:B1:42:ASN:O	49:B1:45:ILE:HG13	1.94	0.67
51:B3:44:THR:CG2	51:B3:45:GLY:H	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B7:38:GLY:HA2	55:B7:41:ILE:HG13	1.76	0.67
56:B8:9:ARG:O	56:B8:10:ILE:HG13	1.94	0.67
25:BA:1138:G:N2	25:BA:1139:G:N3	2.42	0.67
25:BA:1156:A:H5'	25:BA:1157:G:N7	2.09	0.67
25:BA:1287:A:O4'	39:BQ:104:ARG:HD2	1.95	0.67
25:BA:150:C:O2'	25:BA:151:C:H5'	1.93	0.67
25:BA:1534:G:H1'	25:BA:1536:A:H62	1.59	0.67
25:BA:1593:G:H2'	25:BA:1594:G:C8	2.23	0.67
25:BA:1912:A:H3'	25:BA:1913:A:C5'	2.25	0.67
25:BA:2027:G:H2'	25:BA:2028:U:O4'	1.94	0.67
25:BA:217:G:H2'	25:BA:218:A:C5'	2.19	0.67
25:BA:221:A:C8	25:BA:221:A:C3'	2.76	0.67
25:BA:1127:A:C6	25:BA:2518:A:C2	2.81	0.67
25:BA:251:A:H2'	25:BA:252:G:C4'	2.24	0.67
25:BA:2604:U:O2'	25:BA:2605:U:C5'	2.42	0.67
25:BA:2606:C:C2'	25:BA:2607:G:O5'	2.41	0.67
25:BA:2746:U:C4	25:BA:2747:G:N7	2.63	0.67
25:BA:2766:G:C2	25:BA:2767:C:C5	2.82	0.67
25:BA:298:G:H8	25:BA:298:G:O5'	1.77	0.67
25:BA:289:A:H2'	25:BA:351:G:N1	2.09	0.67
25:BA:364:C:C2	25:BA:365:C:C5	2.81	0.67
25:BA:468:G:O6	25:BA:469:G:C2	2.46	0.67
25:BA:489:G:N2	25:BA:491:G:C1'	2.53	0.67
25:BA:790:C:C2'	25:BA:791:C:OP1	2.41	0.67
25:BA:91:A:H3'	25:BA:92:G:C8	2.29	0.67
25:BA:958:U:O2'	25:BA:959:A:P	2.53	0.67
28:BD:142:VAL:C	28:BD:163:ALA:HB3	2.14	0.67
25:BA:1813:G:C2'	28:BD:52:ARG:NH1	2.43	0.67
30:BF:140:LEU:HD23	30:BF:143:ALA:CB	2.20	0.67
30:BF:192:LEU:HD13	30:BF:192:LEU:C	2.15	0.67
25:BA:599:G:H4'	30:BF:31:HIS:HE2	1.59	0.67
32:BH:52:VAL:HG11	32:BH:69:ARG:HB3	1.77	0.67
35:BM:57:ALA:HB3	35:BM:124:ALA:CB	2.24	0.67
38:BP:122:GLY:O	38:BP:123:HIS:C	2.33	0.67
38:BP:48:GLU:CA	38:BP:51:ARG:HG2	2.24	0.67
38:BP:56:ARG:HD2	38:BP:57:HIS:N	2.09	0.67
40:BR:12:PHE:O	40:BR:16:ASN:OD1	2.10	0.67
35:BM:4:TYR:CZ	42:BT:101:ARG:NH1	2.62	0.67
43:BU:39:LEU:HD11	43:BU:60:GLU:OE2	1.95	0.67
46:BX:76:CYS:CB	46:BX:100:ALA:HB3	2.24	0.67
25:BA:1076:C:H4'	34:BL:93:ARG:NH2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:436:C:O2'	7:AG:157:LEU:HG	1.94	0.67
25:BA:207:A:H2'	25:BA:208:C:C6	2.28	0.67
1:AA:1120:G:H2'	1:AA:1121:U:O5'	1.94	0.67
1:AA:91:C:C2	1:AA:92:G:C8	2.82	0.67
1:AA:1502:A:C6	1:AA:1504:G:C2	2.82	0.67
1:AA:258:G:C4	1:AA:259:G:N7	2.62	0.67
1:AA:552:U:H2'	1:AA:553:A:H8	1.58	0.67
1:AA:783:C:C2'	1:AA:784:C:C5'	2.71	0.67
6:AF:187:ALA:HB3	6:AF:198:VAL:HG22	1.75	0.67
7:AG:19:LEU:HD22	7:AG:21:LEU:HD12	1.75	0.67
10:AJ:139:GLU:O	10:AJ:142:GLU:HB2	1.93	0.67
14:AN:26:ASN:O	14:AN:27:ASN:HB2	1.91	0.67
49:B1:7:GLU:CA	49:B1:10:LYS:HG2	2.24	0.67
50:B2:6:VAL:HG21	50:B2:35:ARG:NH2	2.09	0.67
51:B3:28:LYS:HG2	51:B3:29:PRO:CD	2.24	0.67
51:B3:5:ILE:O	51:B3:56:VAL:HA	1.93	0.67
25:BA:2285:C:H5	53:B5:27:LYS:HZ1	1.40	0.67
25:BA:1030:G:C5	25:BA:1125:G:N2	2.62	0.67
25:BA:974:G:H1'	25:BA:1186:G:C5	2.29	0.67
25:BA:1360:A:N7	25:BA:1361:G:N7	2.42	0.67
25:BA:1373:A:H2'	25:BA:1374:G:C8	2.30	0.67
25:BA:1425:G:H2'	25:BA:1426:G:C4	2.30	0.67
25:BA:1475:G:H1	25:BA:1477:A:H61	1.33	0.67
25:BA:1695:G:C2'	25:BA:1696:G:H5'	2.23	0.67
25:BA:1928:A:H5'	25:BA:1929:G:OP2	1.93	0.67
25:BA:1993:U:C6	25:BA:1993:U:O5'	2.47	0.67
25:BA:2114:A:H2'	25:BA:2115:G:O4'	1.93	0.67
25:BA:2166:G:H2'	25:BA:2167:U:C6	2.29	0.67
25:BA:215:G:C4'	25:BA:216:A:H4'	2.23	0.67
25:BA:2478:A:H2'	25:BA:2479:G:H5'	1.75	0.67
25:BA:2602:A:O2'	25:BA:2603:G:OP1	2.12	0.67
25:BA:28:A:C2	25:BA:29:U:C1'	2.77	0.67
25:BA:308:G:N1	25:BA:309:G:N3	2.43	0.67
25:BA:594:U:N3	25:BA:595:C:N4	2.43	0.67
25:BA:752:A:H4'	25:BA:753:C:H5'	1.76	0.67
25:BA:878:A:N1	25:BA:880:G:N7	2.41	0.67
27:BC:204:ALA:HB2	27:BC:208:PHE:CZ	2.29	0.67
28:BD:108:PRO:HG3	28:BD:143:HIS:NE2	2.08	0.67
28:BD:136:ILE:CG2	28:BD:165:ILE:HG21	2.24	0.67
28:BD:243:GLY:O	28:BD:244:ARG:HB2	1.94	0.67
29:BE:49:LEU:CD1	29:BE:50:GLY:N	2.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:115:ALA:O	30:BF:119:ARG:HG3	1.94	0.67
30:BF:33:LEU:HD12	30:BF:34:TRP:H	1.57	0.67
31:BG:39:ILE:HD13	31:BG:92:VAL:CB	2.24	0.67
31:BG:61:ALA:HB1	31:BG:67:LYS:HE3	1.74	0.67
32:BH:43:VAL:CG1	32:BH:44:VAL:N	2.57	0.67
36:BN:8:LEU:CB	36:BN:19:ILE:HD11	2.24	0.67
37:BO:15:ARG:NH1	37:BO:16:ARG:HB2	2.09	0.67
38:BP:76:LYS:HD2	38:BP:76:LYS:C	2.13	0.67
25:BA:1277:G:H21	39:BQ:23:ASN:ND2	1.93	0.67
41:BS:53:ARG:NH2	41:BS:102:ILE:C	2.48	0.67
43:BU:61:VAL:C	43:BU:62:LEU:HD23	2.14	0.67
43:BU:62:LEU:HD11	43:BU:96:ILE:HD13	1.76	0.67
46:BX:14:LEU:N	46:BX:14:LEU:HD12	2.09	0.67
47:BY:44:PHE:O	47:BY:48:PHE:CD1	2.48	0.67
33:BK:83:ALA:HB3	33:BK:88:ILE:HA	1.75	0.67
47:BY:158:PRO:HB2	47:BY:159:PRO:HD2	1.75	0.67
34:BL:134:MET:HB3	34:BL:136:VAL:HG23	1.76	0.67
1:AA:1014:A:H2'	1:AA:1015:A:C8	2.29	0.67
1:AA:1272:G:H2'	1:AA:1273:G:H8	1.59	0.67
1:AA:735:C:H5'	21:AU:71:LYS:HD3	1.76	0.67
1:AA:819:A:C4'	1:AA:820:U:OP2	2.35	0.67
2:AC:59:A:H2'	2:AC:59:A:N3	2.08	0.67
7:AG:107:ARG:CD	7:AG:174:LEU:HD11	2.24	0.67
9:AI:76:ALA:HB1	9:AI:80:ARG:CZ	2.22	0.67
9:AI:6:VAL:HG22	9:AI:8:ILE:HG12	1.77	0.67
1:AA:940:C:OP1	10:AJ:102:ARG:HD3	1.94	0.67
10:AJ:42:ILE:HG22	10:AJ:120:ILE:HD11	1.76	0.67
11:AK:20:TYR:HA	11:AK:65:TYR:OH	1.94	0.67
11:AK:45:ILE:HG13	11:AK:61:VAL:HG13	1.76	0.67
12:AL:112:LYS:HG3	12:AL:117:HIS:HA	1.75	0.67
12:AL:32:ASP:O	12:AL:35:GLU:HB3	1.94	0.67
12:AL:96:LEU:O	12:AL:100:GLY:CA	2.42	0.67
13:AM:6:ILE:HD11	13:AM:72:VAL:CB	2.22	0.67
19:AS:6:LEU:HD23	19:AS:17:TYR:CD2	2.30	0.67
21:AU:53:ARG:C	21:AU:55:ARG:H	1.96	0.67
49:B1:19:LEU:HD21	49:B1:23:LYS:HE3	1.76	0.67
25:BA:2887:U:O4'	52:B4:31:VAL:HG12	1.93	0.67
52:B4:33:CYS:HB3	52:B4:36:CYS:N	2.10	0.67
53:B5:20:ASN:ND2	53:B5:43:CYS:CB	2.57	0.67
25:BA:1179:C:H2'	25:BA:1180:C:C5	2.30	0.67
25:BA:1520:U:C6	25:BA:1520:U:H3'	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1557:C:H3'	25:BA:1558:A:H5''	1.75	0.67
25:BA:1572:A:OP1	25:BA:1572:A:C8	2.48	0.67
25:BA:1669:A:C6	25:BA:1994:C:O2	2.47	0.67
25:BA:1707:G:H1'	25:BA:1758:G:N2	2.09	0.67
25:BA:1786:A:H4'	25:BA:1938:A:N6	2.09	0.67
2:AC:12:G:H1'	25:BA:1923:U:O2'	1.94	0.67
25:BA:1948:G:C6	25:BA:1959:G:C6	2.82	0.67
25:BA:2344:U:O2	25:BA:2344:U:H3'	1.94	0.67
25:BA:2346:A:O2'	25:BA:2347:C:P	2.51	0.67
25:BA:2371:G:C2	25:BA:2372:G:C5	2.82	0.67
25:BA:2044:C:C6	25:BA:2625:G:N2	2.62	0.67
25:BA:281:G:C2'	25:BA:281:G:N3	2.57	0.67
25:BA:319:C:N4	25:BA:320:A:N6	2.43	0.67
25:BA:943:U:P	25:BA:943:U:O4'	2.52	0.67
28:BD:183:ARG:HA	28:BD:268:ARG:CA	2.23	0.67
29:BE:14:ILE:O	29:BE:14:ILE:HD12	1.93	0.67
16:AP:7:VAL:N	31:BG:114:ILE:HD13	2.10	0.67
32:BH:103:LEU:H	32:BH:115:VAL:HG12	1.59	0.67
25:BA:2093:G:H5'	33:BK:25:TYR:CE1	2.29	0.67
36:BN:114:ILE:CG2	36:BN:115:VAL:N	2.56	0.67
36:BN:13:ASN:HB3	36:BN:94:ARG:HB2	1.77	0.67
36:BN:14:THR:HA	36:BN:52:VAL:HG11	1.75	0.67
36:BN:28:SER:O	36:BN:29:ASN:HB2	1.93	0.67
37:BO:32:THR:CB	37:BO:35:HIS:CE1	2.77	0.67
38:BP:8:LYS:NZ	38:BP:16:ARG:HH22	1.93	0.67
41:BS:70:VAL:CB	41:BS:74:ARG:NH1	2.52	0.67
42:BT:108:GLU:OE1	42:BT:109:LEU:HG	1.93	0.67
42:BT:48:ALA:CB	42:BT:52:ARG:HH21	2.00	0.67
43:BU:28:GLU:CB	43:BU:94:LEU:HD12	2.10	0.67
44:BV:19:LEU:HD23	52:B4:25:LEU:HB2	1.76	0.67
45:BW:17:ALA:HB1	45:BW:27:THR:HG1	1.59	0.67
46:BX:72:VAL:HG21	46:BX:81:LYS:HE2	1.76	0.67
34:BL:9:LYS:HG2	34:BL:56:GLU:HG3	1.76	0.67
46:BX:86:ARG:HG2	46:BX:91:GLU:HB2	1.76	0.67
14:AN:86:GLY:H	14:AN:112:THR:HG23	1.58	0.67
4:A1:15:A:C5'	4:A1:15:A:H8	1.99	0.67
1:AA:1085:U:O3'	1:AA:1086:U:H6	1.76	0.67
1:AA:1520:G:H2'	1:AA:1521:G:C8	2.29	0.67
1:AA:181:G:N2	1:AA:183:G:C2	2.63	0.67
1:AA:259:G:H3'	23:AW:83:ARG:NH2	2.03	0.67
1:AA:35:G:O2'	1:AA:36:C:H5'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:440:A:N1	1:AA:494:U:C6	2.63	0.67
5:AE:220:ASP:O	5:AE:223:ILE:HB	1.94	0.67
1:AA:1191:A:H5''	6:AF:4:LYS:NZ	2.10	0.67
7:AG:79:PHE:CE1	7:AG:204:ILE:HG23	2.30	0.67
7:AG:30:LYS:NZ	7:AG:35:ARG:HD2	2.08	0.67
7:AG:68:TYR:HE2	7:AG:97:LEU:HB3	1.59	0.67
9:AI:26:ILE:HG22	9:AI:30:LEU:HD11	1.75	0.67
13:AM:64:GLU:O	17:AQ:56:VAL:HA	1.93	0.67
13:AM:30:SER:CB	13:AM:81:THR:HA	2.24	0.67
14:AN:85:ARG:NE	14:AN:113:PRO:HD3	2.09	0.67
6:AF:33:LEU:HD11	17:AQ:53:LEU:HA	1.75	0.67
18:AR:2:PRO:O	18:AR:4:THR:N	2.27	0.67
1:AA:43:C:P	19:AS:12:LYS:HG2	2.35	0.67
1:AA:254:G:OP1	20:AT:67:LYS:O	2.13	0.67
24:AX:18:TYR:CD2	24:AX:24:ARG:HA	2.30	0.67
25:BA:2287:A:C2	53:B5:37:ARG:NH2	2.60	0.67
25:BA:125:G:N2	54:B6:14:LYS:HG3	2.10	0.67
25:BA:126:A:N3	54:B6:18:PHE:HB3	2.09	0.67
54:B6:34:ARG:NH2	54:B6:42:LEU:HA	2.09	0.67
25:BA:1134:G:C5	25:BA:1136:G:OP2	2.48	0.67
25:BA:1184:G:C2'	25:BA:1185:C:H5'	2.23	0.67
25:BA:134:C:C2'	25:BA:135:G:H5'	2.25	0.67
25:BA:142:G:H4'	45:BW:35:THR:CG2	2.22	0.67
25:BA:150:C:O2	25:BA:151:C:C6	2.48	0.67
25:BA:1603:A:C2	25:BA:1604:C:C4	2.83	0.67
25:BA:1332:G:C4	25:BA:1609:A:C6	2.82	0.67
25:BA:740:U:C5'	25:BA:1784:A:OP1	2.31	0.67
3:AD:76:A:N3	25:BA:2432:A:O4'	2.27	0.67
25:BA:2490:G:O2'	25:BA:2491:U:H5''	1.95	0.67
25:BA:2703:C:H5	25:BA:2704:C:C4	2.13	0.67
25:BA:2733:A:C2'	25:BA:2734:A:O5'	2.41	0.67
25:BA:2749:A:H2	25:BA:2757:A:N1	1.92	0.67
25:BA:323:G:N2	25:BA:333:G:H1'	2.09	0.67
25:BA:371:A:H5''	25:BA:423:A:C5	2.30	0.67
25:BA:246:C:O2'	25:BA:385:C:C5'	2.42	0.67
25:BA:564:C:H42	25:BA:578:A:H61	1.40	0.67
25:BA:669:G:H5''	25:BA:670:A:OP2	1.95	0.67
25:BA:60:G:N3	25:BA:74:A:O4'	2.28	0.67
25:BA:759:G:H2'	25:BA:760:G:H8	1.59	0.67
25:BA:823:G:H2'	25:BA:824:A:C8	2.30	0.67
25:BA:910:A:N1	38:BP:17:LEU:HD11	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:911:A:C2	38:BP:13:GLN:OE1	2.47	0.67
27:BC:186:ALA:HB1	27:BC:190:ARG:HH21	1.56	0.67
29:BE:109:LYS:H	29:BE:191:PRO:HD3	1.59	0.67
29:BE:49:LEU:HD21	29:BE:75:VAL:H	1.59	0.67
31:BG:137:GLU:HG2	31:BG:138:GLN:N	2.09	0.67
35:BM:97:ARG:C	35:BM:100:GLU:HB2	2.14	0.67
25:BA:558:G:H5'	35:BM:112:LEU:HG	1.75	0.67
35:BM:16:ILE:HD13	35:BM:54:VAL:CG2	2.25	0.67
39:BQ:97:VAL:CA	39:BQ:114:VAL:HG22	2.17	0.67
42:BT:98:LEU:HA	42:BT:101:ARG:CG	2.24	0.67
42:BT:92:ARG:O	42:BT:94:ASN:N	2.26	0.67
42:BT:98:LEU:HA	42:BT:101:ARG:HG2	1.75	0.67
43:BU:2:PHE:HB3	43:BU:13:ARG:NH2	2.06	0.67
45:BW:63:LYS:HE3	45:BW:72:LYS:HE2	1.77	0.67
47:BY:149:SER:HB2	47:BY:173:ALA:HB2	1.76	0.67
47:BY:40:ASP:O	47:BY:44:PHE:HD1	1.77	0.67
47:BY:4:ARG:C	47:BY:5:LEU:HD23	2.15	0.67
26:BB:76:G:H1'	47:BY:75:ASN:ND2	2.09	0.67
47:BY:94:GLU:N	47:BY:95:PRO:CD	2.57	0.67
1:AA:210:U:H4'	1:AA:216:G:O4'	1.94	0.67
1:AA:1354:C:H2'	1:AA:1355:G:H8	1.56	0.67
1:AA:1418:A:C6	1:AA:1483:A:C6	2.82	0.67
1:AA:1440:C:C2	1:AA:1441:G:C8	2.83	0.67
1:AA:187:C:H2'	1:AA:188:U:O4'	1.94	0.67
1:AA:183:G:O2'	1:AA:224:C:H1'	1.95	0.67
1:AA:262:A:C2'	1:AA:263:A:C8	2.74	0.67
1:AA:50:A:C2	1:AA:360:A:N3	2.63	0.67
3:AD:58:A:O2'	3:AD:59:U:OP1	2.12	0.67
6:AF:173:VAL:HG12	6:AF:175:LEU:CD1	2.24	0.67
12:AL:101:PHE:CD1	12:AL:101:PHE:N	2.62	0.67
12:AL:111:ARG:NH2	13:AM:62:HIS:CE1	2.62	0.67
15:AO:83:VAL:HG22	15:AO:84:LEU:H	1.58	0.67
1:AA:1228:C:OP2	16:AP:111:LYS:NZ	2.25	0.67
18:AR:78:TYR:CD2	18:AR:82:ILE:HD11	2.29	0.67
20:AT:66:SER:O	20:AT:70:ARG:NH1	2.28	0.67
50:B2:19:GLN:HE22	50:B2:50:VAL:CA	2.06	0.67
50:B2:8:LEU:HD11	50:B2:31:LEU:HD22	1.75	0.67
25:BA:2231:C:OP1	51:B3:39:CYS:HA	1.95	0.67
25:BA:1128:A:C2	25:BA:1129:A:C6	2.83	0.67
25:BA:1423:G:H2'	25:BA:1424:G:C8	2.29	0.67
25:BA:1477:A:H2	25:BA:1516:U:C2	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1605:C:H3'	25:BA:1606:G:C8	2.29	0.67
25:BA:1698:A:O2'	25:BA:1699:G:O5'	2.13	0.67
25:BA:1848:A:N6	25:BA:1849:G:C2	2.63	0.67
25:BA:1883:G:H2'	25:BA:1884:A:C2	2.29	0.67
25:BA:961:C:N4	25:BA:2031:A:C4	2.63	0.67
25:BA:2061:G:O4'	25:BA:2503:A:N1	2.28	0.67
25:BA:2282:G:C2	25:BA:2425:A:N7	2.62	0.67
25:BA:2459:A:N3	25:BA:2460:U:C2	2.62	0.67
25:BA:258:G:H8	25:BA:258:G:O5'	1.75	0.67
25:BA:2665:A:O2'	25:BA:2666:C:O4'	2.11	0.67
25:BA:2772:C:H2'	25:BA:2772:C:O2	1.93	0.67
25:BA:293:U:C3'	25:BA:293:U:C6	2.75	0.67
25:BA:295:G:C2	25:BA:344:G:H1'	2.30	0.67
25:BA:85:G:H1'	25:BA:103:A:H2	1.57	0.67
25:BA:910:A:N6	25:BA:911:A:N6	2.41	0.67
26:BB:48:A:H5"	40:BR:95:HIS:CE1	2.29	0.67
26:BB:66:A:C2	26:BB:107:U:N3	2.62	0.67
29:BE:13:ARG:NH1	29:BE:20:ALA:CB	2.58	0.67
30:BF:123:LEU:HD12	30:BF:193:VAL:HG22	1.77	0.67
30:BF:54:ARG:C	30:BF:56:GLU:H	1.98	0.67
30:BF:80:ALA:CB	30:BF:82:ILE:HD11	2.25	0.67
31:BG:57:ALA:O	31:BG:67:LYS:HB3	1.94	0.67
36:BN:100:GLY:N	41:BS:74:ARG:NH2	2.43	0.67
38:BP:25:ASP:OD2	38:BP:101:ARG:HB3	1.93	0.67
38:BP:51:ARG:NH1	38:BP:51:ARG:CB	2.44	0.67
39:BQ:104:ARG:O	39:BQ:105:ARG:NH2	2.28	0.67
25:BA:1754:C:H5'	41:BS:104:ASN:CG	2.14	0.67
35:BM:37:LYS:HG2	42:BT:63:VAL:HG11	1.77	0.67
42:BT:74:LEU:CD2	42:BT:78:THR:HG21	2.09	0.67
42:BT:93:LYS:HB2	43:BU:10:LYS:CD	2.23	0.67
42:BT:89:GLU:OE2	43:BU:52:VAL:HB	1.94	0.67
47:BY:109:ALA:CB	47:BY:142:SER:O	2.43	0.67
48:BZ:39:ARG:HG2	48:BZ:39:ARG:NH1	2.03	0.67
34:BL:115:LEU:HD13	34:BL:116:ASN:O	1.94	0.67
7:AG:47:ARG:NH1	7:AG:47:ARG:CB	2.54	0.67
1:AA:1253:G:N2	1:AA:1254:C:H1'	2.10	0.67
1:AA:1350:A:H2'	1:AA:1351:U:H6	1.60	0.67
1:AA:166:G:HO2'	1:AA:167:G:C5'	2.08	0.67
1:AA:129(A):G:N2	1:AA:191(A):G:C5	2.63	0.67
1:AA:21:G:N2	1:AA:916:G:C6	2.62	0.67
1:AA:894:G:C4	1:AA:895:G:C8	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:898:G:C6	1:AA:902:G:C6	2.82	0.67
1:AA:967:C:H2'	1:AA:968:A:C8	2.29	0.67
5:AE:118:LEU:HD13	5:AE:142:LEU:HD12	1.76	0.67
5:AE:68:ILE:HG13	5:AE:90:MET:CG	2.23	0.67
5:AE:73:THR:HG21	5:AE:95:GLN:O	1.94	0.67
7:AG:186:LEU:HG	7:AG:187:ARG:H	1.59	0.67
7:AG:20:TYR:HD1	7:AG:21:LEU:N	1.92	0.67
8:AH:57:LYS:HG2	8:AH:61:TYR:CE2	2.29	0.67
10:AJ:105:VAL:O	10:AJ:109:ASN:ND2	2.28	0.67
10:AJ:145:ALA:O	10:AJ:146:GLU:HB3	1.94	0.67
11:AK:18:ARG:NH1	11:AK:18:ARG:N	2.43	0.67
13:AM:24:VAL:HG13	13:AM:34:VAL:HB	1.76	0.67
1:AA:1360:A:H62	17:AQ:18:VAL:HG12	1.59	0.67
52:B4:10:LYS:HE3	52:B4:15:ARG:HH11	1.60	0.67
52:B4:45:VAL:O	52:B4:46:CYS:HB3	1.94	0.67
25:BA:2466:C:H5'	56:B8:5:ALA:HB1	1.76	0.67
25:BA:1012:U:N3	25:BA:1142(A):A:H1'	2.09	0.67
25:BA:1044:G:H2'	25:BA:1111:A:N3	2.09	0.67
25:BA:1212:G:H3'	25:BA:1212:G:H8	1.60	0.67
25:BA:586:A:N7	25:BA:1251:C:N4	2.42	0.67
25:BA:1322:A:OP1	44:BV:11:ARG:NH1	2.28	0.67
25:BA:1453:A:OP2	25:BA:1453:A:O4'	2.12	0.67
25:BA:1496:A:H2'	25:BA:1497:U:C5	2.30	0.67
25:BA:1680:U:O2	25:BA:1764:G:O5'	2.11	0.67
25:BA:2031:A:H3'	25:BA:2454:G:H21	1.58	0.67
25:BA:529:A:N7	25:BA:2042:A:C2	2.62	0.67
25:BA:2074:U:O2	25:BA:2074:U:H2'	1.94	0.67
25:BA:2171:A:H4'	25:BA:2172:U:OP1	1.95	0.67
25:BA:2265:U:N3	25:BA:2266:A:N7	2.43	0.67
25:BA:2453:A:H4'	25:BA:2572:A:O2'	1.94	0.67
25:BA:2612:C:O2	52:B4:4:HIS:CG	2.48	0.67
25:BA:2695:C:H2'	25:BA:2696:U:H6	1.60	0.67
25:BA:2755:C:C4'	25:BA:2756:U:H5	2.01	0.67
25:BA:292:C:C6	25:BA:293:U:O4	2.48	0.67
25:BA:556:G:H8	25:BA:556:G:O5'	1.78	0.67
25:BA:76:C:O2'	49:B1:54:ARG:HA	1.95	0.67
25:BA:923:C:H6	25:BA:923:C:H5''	1.59	0.67
26:BB:55:U:H2'	26:BB:56:G:C8	2.29	0.67
28:BD:177:LEU:CD1	28:BD:181:GLU:HB3	2.23	0.67
29:BE:53:PRO:O	29:BE:54:GLN:O	2.13	0.67
30:BF:98:SER:O	30:BF:99:TYR:HB2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:84:SER:HA	32:BH:134:SER:HA	1.75	0.67
32:BH:24:VAL:HG23	32:BH:35:VAL:CG2	2.12	0.67
32:BH:7:LEU:HG	32:BH:51:ARG:HD3	1.75	0.67
33:BK:21:VAL:HB	33:BK:26:ALA:HA	1.76	0.67
36:BN:23:ARG:HG3	36:BN:40:VAL:HG11	1.75	0.67
37:BO:100:LEU:HD23	37:BO:100:LEU:N	2.10	0.67
38:BP:22:LYS:HD2	38:BP:23:GLY:H	1.59	0.67
41:BS:93:ARG:HD2	41:BS:93:ARG:N	2.09	0.67
42:BT:88:ILE:HB	43:BU:52:VAL:CA	2.24	0.67
47:BY:151:HIS:HA	47:BY:171:ILE:HG22	1.75	0.67
48:BZ:21:LEU:HD21	48:BZ:40:GLN:HA	1.77	0.67
48:BZ:44:ARG:O	48:BZ:44:ARG:HG2	1.93	0.67
48:BZ:51:VAL:HG22	48:BZ:81:VAL:HG23	1.77	0.67
25:BA:1092:C:C6	25:BA:1092:C:C3'	2.78	0.67
34:BL:10:LEU:HD11	34:BL:41:PHE:HZ	1.59	0.67
6:AF:122:GLU:HA	6:AF:125:GLU:CG	2.25	0.67
26:BB:-1:A:C8	26:BB:0:A:H1'	2.29	0.67
14:AN:114:VAL:HG23	14:AN:115:PRO:HD2	1.76	0.67
1:AA:1494:G:C2'	1:AA:1495:U:C5	2.77	0.67
1:AA:225:C:O2'	1:AA:226:G:H5'	1.94	0.67
1:AA:370:C:C2	1:AA:371:G:N7	2.62	0.67
1:AA:440:A:N1	1:AA:494:U:C5	2.62	0.67
1:AA:508:C:H4'	1:AA:509:A:O5'	1.94	0.67
1:AA:519:C:N4	1:AA:520:A:H2	1.92	0.67
1:AA:707:C:C2'	1:AA:708:C:H5'	2.24	0.67
1:AA:874:G:O2'	1:AA:875:C:H5'	1.95	0.67
1:AA:947:G:H2'	1:AA:948:C:H6	1.59	0.67
2:AC:10:G:C2	2:AC:11:A:C8	2.82	0.67
5:AE:132:LYS:HZ3	5:AE:132:LYS:N	1.93	0.67
6:AF:22:TRP:HZ2	6:AF:33:LEU:HG	1.60	0.67
6:AF:6:HIS:ND1	6:AF:7:PRO:HD2	2.10	0.67
8:AH:106:PRO:O	8:AH:109:ILE:HG22	1.94	0.67
9:AI:19:LEU:CG	9:AI:23:LYS:HD2	2.23	0.67
9:AI:94:GLN:HB2	21:AU:32:ARG:NH2	2.09	0.67
18:AR:54:ARG:O	18:AR:57:LEU:HB2	1.94	0.67
18:AR:71:GLN:CA	18:AR:75:PRO:HB3	2.25	0.67
19:AS:49:LEU:HD21	19:AS:51:VAL:HG23	1.76	0.67
19:AS:69:THR:HA	19:AS:72:ARG:HD2	1.77	0.67
20:AT:9:VAL:HG21	20:AT:84:LEU:HD12	1.76	0.67
23:AW:57:ARG:NH2	23:AW:100:ILE:HB	2.09	0.67
50:B2:29:ARG:O	50:B2:30:ARG:C	2.33	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:396:G:OP1	51:B3:10:VAL:HG13	1.95	0.67
25:BA:397:G:P	51:B3:41:PRO:HG3	2.35	0.67
51:B3:10:VAL:CG2	51:B3:60:GLN:HE22	2.08	0.67
53:B5:37:ARG:HB2	53:B5:51:GLU:CB	2.24	0.67
54:B6:5:TRP:CE3	54:B6:5:TRP:HA	2.29	0.67
25:BA:1300:U:H2'	25:BA:1626:G:N2	2.09	0.67
25:BA:1360:A:C8	25:BA:1361:G:C8	2.82	0.67
25:BA:1602:U:O2'	25:BA:1603:A:OP1	2.09	0.67
25:BA:1626:G:H4'	25:BA:1627:G:OP1	1.92	0.67
25:BA:1754:C:H2'	25:BA:1755:A:C1'	2.24	0.67
25:BA:1791:A:H3'	25:BA:1792:G:C8	2.28	0.67
25:BA:2225:A:O2'	25:BA:2226:C:OP2	2.11	0.67
25:BA:2352:A:N7	25:BA:2366:A:C6	2.62	0.67
25:BA:241:A:HO2'	25:BA:243:U:H6	1.40	0.67
25:BA:2468:G:C2'	25:BA:2476:A:C2	2.66	0.67
25:BA:2615:U:C1'	52:B4:7:PRO:HA	2.24	0.67
25:BA:270(C):C:N4	25:BA:270(D):C:H41	1.91	0.67
25:BA:270(O):U:H5''	25:BA:270(P):C:H5	1.57	0.67
25:BA:2767:C:C2	25:BA:2768:C:C5	2.83	0.67
25:BA:2781:A:C2'	25:BA:2782:G:O2'	2.43	0.67
25:BA:455:C:OP1	25:BA:472:A:C2	2.47	0.67
25:BA:669:G:N2	25:BA:670:A:N3	2.42	0.67
25:BA:718:A:H3'	25:BA:719:C:C6	2.26	0.67
25:BA:879:G:N2	25:BA:880:G:C4	2.63	0.67
25:BA:989:G:H2'	25:BA:990:A:OP2	1.95	0.67
28:BD:58:HIS:HB2	28:BD:215:LEU:O	1.94	0.67
28:BD:33:LEU:HD11	28:BD:61:LEU:CD1	2.24	0.67
29:BE:52:LEU:HA	29:BE:74:PRO:CA	2.17	0.67
31:BG:173:LEU:HA	31:BG:176:LEU:HB3	1.76	0.67
31:BG:26:GLN:NE2	31:BG:31:VAL:HG11	2.09	0.67
35:BM:35:ARG:NH1	35:BM:48:MET:HE1	2.10	0.67
35:BM:54:VAL:HB	35:BM:122:VAL:HB	1.76	0.67
25:BA:2674:G:O2'	36:BN:29:ASN:HB3	1.94	0.67
36:BN:89:ASN:HD22	36:BN:91:LEU:HB2	1.59	0.67
36:BN:98:VAL:O	36:BN:98:VAL:HG23	1.94	0.67
37:BO:16:ARG:HG2	37:BO:19:VAL:HG13	1.77	0.67
38:BP:137:TYR:HE2	47:BY:99:TYR:HH	1.42	0.67
39:BQ:17:ARG:NH1	39:BQ:17:ARG:HB2	2.05	0.67
40:BR:9:ARG:HD3	40:BR:12:PHE:CD2	2.30	0.67
40:BR:3:ARG:CG	40:BR:4:LEU:H	2.06	0.67
42:BT:105:VAL:CG1	42:BT:106:PHE:N	2.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:5:LYS:C	42:BT:7:GLY:H	1.98	0.67
46:BX:14:LEU:HD22	46:BX:20:TYR:H	1.58	0.67
46:BX:46:LYS:HB2	46:BX:57:GLN:HA	1.75	0.67
47:BY:116:VAL:HG21	47:BY:145:GLU:HG2	1.77	0.67
47:BY:101:PRO:HG2	47:BY:135:GLU:OE1	1.94	0.67
25:BA:188:G:OP2	51:B3:13:ARG:NH2	2.25	0.67
25:BA:2212:A:C2'	25:BA:2212:A:N3	2.57	0.67
1:AA:1099:G:H2'	1:AA:1099:G:N3	2.10	0.67
1:AA:10:A:H1'	1:AA:507:C:O2'	1.94	0.67
1:AA:1191:A:N3	1:AA:1191:A:H2'	2.10	0.67
1:AA:1245:A:H2'	1:AA:1246:C:H6	1.53	0.67
1:AA:321:A:H5'	1:AA:1435:G:O2'	1.94	0.67
1:AA:294:U:C2	1:AA:295:C:C5	2.82	0.67
1:AA:325:A:OP2	23:AW:70:SER:HB3	1.94	0.67
1:AA:571:U:H5'	1:AA:572:A:OP2	1.94	0.67
3:AD:36:A:H2'	3:AD:37:A:C8	2.30	0.67
3:AD:8:U:O4'	3:AD:48:C:H4'	1.94	0.67
5:AE:69:LEU:HD22	5:AE:91:PRO:C	2.15	0.67
6:AF:150:LYS:HZ3	6:AF:152:ILE:CG2	2.08	0.67
8:AH:101:ILE:N	8:AH:101:ILE:HD13	2.10	0.67
8:AH:79:GLU:CD	8:AH:79:GLU:H	1.98	0.67
11:AK:40:ALA:N	11:AK:45:ILE:CG2	2.57	0.67
12:AL:56:LEU:O	12:AL:56:LEU:HD23	1.95	0.67
13:AM:60:ARG:CZ	13:AM:60:ARG:HB2	2.25	0.67
14:AN:41:THR:HG22	14:AN:71:LYS:HE3	1.75	0.67
15:AO:55:VAL:C	15:AO:70:ILE:HD11	2.14	0.67
16:AP:13:LYS:O	16:AP:45:VAL:HG23	1.95	0.67
16:AP:76:ALA:O	16:AP:80:ARG:HG2	1.94	0.67
17:AQ:22:THR:HB	17:AQ:33:VAL:HG21	1.76	0.67
19:AS:58:TYR:C	19:AS:58:TYR:HD1	1.97	0.67
20:AT:51:TYR:CZ	20:AT:73:VAL:HG11	2.29	0.67
55:B7:39:LYS:N	55:B7:39:LYS:HE2	2.09	0.67
25:BA:98:G:H1'	25:BA:103:A:H1'	1.75	0.67
25:BA:1274:A:H2	25:BA:1297:C:O2	1.78	0.67
25:BA:1449(A):G:O2'	25:BA:1450:C:H5'	1.94	0.67
25:BA:1691:C:C4	25:BA:1697:G:N2	2.62	0.67
25:BA:1688:U:O4'	25:BA:1701:A:C6	2.47	0.67
25:BA:1819:A:O2'	25:BA:1820:U:C5'	2.43	0.67
25:BA:1990:C:H2'	25:BA:1991:U:C6	2.30	0.67
25:BA:2133:G:OP1	25:BA:2156:G:O2'	2.10	0.67
25:BA:2530:A:C2'	25:BA:2531:A:H5''	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:253:C:C2'	25:BA:254:G:H5'	2.25	0.67
25:BA:2572:A:H5''	25:BA:2574:G:C5'	2.24	0.67
25:BA:2591:C:C2'	25:BA:2592:G:C8	2.73	0.67
25:BA:2634:G:C2'	25:BA:2635:C:O5'	2.41	0.67
25:BA:1639:U:O2'	25:BA:2699:C:H4'	1.95	0.67
25:BA:2700:C:C3'	25:BA:2701:C:H5''	2.25	0.67
25:BA:270(V):G:H2'	25:BA:270(W):G:H8	1.58	0.67
25:BA:2756:U:O4	25:BA:2759:G:C6	2.47	0.67
25:BA:2767:C:N3	25:BA:2768:C:C5	2.63	0.67
25:BA:2787:C:O5'	29:BE:64:LYS:HD2	1.95	0.67
25:BA:2825:C:N4	25:BA:2826:A:N6	2.42	0.67
25:BA:371:A:HO2'	25:BA:372:G:P	2.17	0.67
25:BA:464:U:O2'	54:B6:12:ARG:NH2	2.23	0.67
25:BA:977:G:H1	25:BA:978:G:N2	1.93	0.67
27:BC:195:ALA:O	27:BC:199:HIS:ND1	2.27	0.67
27:BC:62:VAL:HG21	27:BC:191:ALA:O	1.94	0.67
28:BD:142:VAL:O	28:BD:163:ALA:CB	2.41	0.67
28:BD:14:ARG:HA	28:BD:20:ASP:HB2	1.76	0.67
29:BE:102:VAL:HG23	29:BE:200:GLU:OE1	1.95	0.67
29:BE:45:THR:CG2	29:BE:80:GLU:O	2.42	0.67
30:BF:181:LEU:HD22	30:BF:181:LEU:H	1.60	0.67
30:BF:41:LEU:CA	30:BF:44:ARG:NE	2.52	0.67
31:BG:44:GLY:O	31:BG:47:LYS:HG2	1.95	0.67
32:BH:137:ASP:OD2	32:BH:140:LYS:HD3	1.95	0.67
32:BH:23:ARG:HH22	32:BH:36:PRO:CD	2.04	0.67
35:BM:55:VAL:HG13	35:BM:56:ASN:N	2.10	0.67
35:BM:58:ASP:O	35:BM:60:ILE:N	2.27	0.67
37:BO:96:THR:O	37:BO:102:ARG:HD3	1.95	0.67
38:BP:126:PRO:O	38:BP:127:ILE:HG23	1.95	0.67
40:BR:9:ARG:HA	40:BR:9:ARG:NH1	2.05	0.67
41:BS:53:ARG:HG2	41:BS:65:LYS:O	1.94	0.67
42:BT:99:ALA:HA	42:BT:106:PHE:CB	2.14	0.67
43:BU:23:GLU:HG2	43:BU:25:LEU:H	1.59	0.67
44:BV:14:PRO:HD3	44:BV:78:GLU:CD	2.15	0.67
44:BV:41:LYS:HZ3	44:BV:41:LYS:HB3	1.60	0.67
47:BY:47:VAL:HG12	47:BY:53:ILE:HG21	1.76	0.67
33:BK:116:LEU:HD11	33:BK:119:PRO:HA	1.77	0.67
34:BL:90:LYS:HB2	34:BL:94:GLU:OE2	1.95	0.67
26:BB:20:C:C2'	26:BB:21:G:H5'	2.24	0.67
1:AA:1138:G:N3	1:AA:1138:G:H3'	2.09	0.67
1:AA:1269:A:H5'	1:AA:1326:C:C4'	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1393:U:H4'	1:AA:1501:C:O2'	1.95	0.67
1:AA:235:C:H2'	1:AA:236:G:C8	2.23	0.67
1:AA:267:C:H2'	1:AA:268:C:C6	2.29	0.67
1:AA:501:C:OP1	15:AO:124:LYS:HD2	1.94	0.67
1:AA:971:G:N2	1:AA:1363:A:OP2	2.27	0.67
1:AA:993:G:H21	1:AA:995:C:N4	1.93	0.67
3:AD:18:G:C2	3:AD:19:G:H1'	2.29	0.67
8:AH:9:LYS:HE2	8:AH:112:LEU:HD23	1.76	0.67
11:AK:129:VAL:HG22	11:AK:130:GLY:H	1.60	0.67
11:AK:6:ILE:HG23	11:AK:85:ARG:NH1	2.10	0.67
13:AM:23:ILE:HG13	13:AM:85:LEU:HB3	1.75	0.67
16:AP:14:ARG:N	16:AP:44:ARG:HD2	2.09	0.67
19:AS:6:LEU:O	19:AS:6:LEU:HD22	1.94	0.67
1:AA:277:C:OP1	20:AT:41:LYS:HD2	1.95	0.67
50:B2:4:LEU:HB3	50:B2:37:LEU:HD22	1.74	0.67
51:B3:66:SER:O	51:B3:69:LYS:HB2	1.94	0.67
54:B6:43:THR:HA	54:B6:46:VAL:CB	2.25	0.67
56:B8:10:ILE:O	56:B8:12:ASP:N	2.27	0.67
25:BA:1427:A:H1'	25:BA:1428:C:C5	2.30	0.67
25:BA:1496:A:C8	25:BA:1496:A:OP2	2.48	0.67
25:BA:1519:G:OP1	25:BA:1519:G:O3'	2.13	0.67
25:BA:1416:G:C2	25:BA:1583:A:N6	2.63	0.67
25:BA:1664:A:H8	25:BA:1664:A:P	2.18	0.67
25:BA:1858:G:H21	25:BA:1885:A:H62	1.42	0.67
25:BA:1930:G:O2'	25:BA:1931:U:OP2	2.12	0.67
25:BA:1785:A:H5'	25:BA:1982:C:H4'	1.76	0.67
25:BA:793:A:OP2	25:BA:2072:G:H5'	1.95	0.67
25:BA:2115:G:N3	25:BA:2117:A:N7	2.42	0.67
25:BA:2133:G:O6	25:BA:2157:G:C8	2.48	0.67
25:BA:2195:C:C2'	25:BA:2196:C:H5'	2.24	0.67
25:BA:230:U:O2'	25:BA:231:C:O4'	2.13	0.67
25:BA:2320:A:C2	25:BA:2333:A:C2	2.83	0.67
25:BA:252:G:O6	55:B7:8:LYS:NZ	2.28	0.67
25:BA:265:A:H2'	25:BA:266:G:C4'	2.24	0.67
25:BA:2682:U:H2'	25:BA:2683:C:O5'	1.94	0.67
25:BA:2688:U:H1'	25:BA:2721:A:N6	2.10	0.67
25:BA:539:G:H2'	25:BA:540:G:H8	1.60	0.67
25:BA:259:G:C1'	25:BA:621:A:O2'	2.41	0.67
25:BA:764:A:N6	25:BA:1789:A:C2	2.63	0.67
25:BA:817:C:O2'	25:BA:818:G:H5'	1.95	0.67
25:BA:819:A:C8	25:BA:973:A:C2	2.80	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BB:52:A:H3'	26:BB:53:A:H8	1.60	0.67
25:BA:1819:A:C5	28:BD:179:SER:HB3	2.30	0.67
29:BE:133:LYS:O	29:BE:137:HIS:CE1	2.47	0.67
30:BF:122:LYS:HD3	30:BF:123:LEU:N	2.10	0.67
30:BF:125:LEU:HD13	30:BF:128:ALA:CB	2.24	0.67
30:BF:132:VAL:O	30:BF:133:ASN:HB3	1.95	0.67
30:BF:135:LYS:HB2	30:BF:165:ARG:HH11	1.60	0.67
30:BF:184:TYR:N	30:BF:184:TYR:CD2	2.59	0.67
30:BF:53:THR:O	30:BF:55:GLY:N	2.28	0.67
32:BH:77:LYS:O	32:BH:80:SER:HB2	1.94	0.67
33:BK:24:GLY:N	33:BK:27:ARG:NH1	2.42	0.67
35:BM:89:LYS:HE2	35:BM:89:LYS:CA	2.24	0.67
36:BN:108:GLU:HA	36:BN:108:GLU:OE2	1.94	0.67
36:BN:10:VAL:HG21	36:BN:14:THR:CG2	2.24	0.67
37:BO:113:LYS:HD3	37:BO:114:ILE:N	2.10	0.67
38:BP:112:GLU:OE1	38:BP:112:GLU:N	2.28	0.67
40:BR:69:VAL:O	40:BR:72:ALA:HB3	1.95	0.67
41:BS:67:SER:HB3	41:BS:105:LEU:HD21	1.77	0.67
1:AA:1431:C:O3'	41:BS:110:ILE:HG23	1.95	0.67
41:BS:11:GLU:HG2	41:BS:59:THR:OG1	1.94	0.67
41:BS:64:ARG:CZ	41:BS:77:PRO:CB	2.73	0.67
43:BU:33:VAL:HG12	43:BU:34:GLU:N	2.08	0.67
43:BU:40:LEU:HD23	43:BU:51:VAL:HG13	1.75	0.67
42:BT:89:GLU:CD	43:BU:52:VAL:HB	2.16	0.67
25:BA:566:U:OP2	43:BU:82:ARG:CZ	2.43	0.67
44:BV:28:SER:O	44:BV:32:ALA:HB3	1.95	0.67
44:BV:11:ARG:HB2	44:BV:98:LYS:CD	2.24	0.67
1:AA:1192:C:C3'	1:AA:1192:C:C6	2.77	0.67
1:AA:1320:C:O4'	22:AV:70:LYS:HD2	1.95	0.67
1:AA:1465:C:N3	1:AA:1466:C:C5	2.63	0.67
1:AA:1469:G:O2'	1:AA:1470:G:H5'	1.95	0.67
7:AG:106:TYR:HE1	7:AG:112:VAL:C	1.98	0.67
11:AK:35:ILE:O	11:AK:39:LEU:HD23	1.95	0.67
15:AO:77:LEU:CD2	15:AO:107:ALA:HB2	2.24	0.67
15:AO:43:VAL:CG1	15:AO:44:THR:H	2.07	0.67
15:AO:45:PRO:CG	15:AO:50:SER:HA	2.23	0.67
16:AP:19:LEU:HD13	16:AP:25:ILE:CG2	2.24	0.67
17:AQ:9:LYS:NZ	17:AQ:12:ARG:HH21	1.92	0.67
18:AR:49:ASP:O	18:AR:49:ASP:CG	2.34	0.67
18:AR:54:ARG:HE	18:AR:58:MET:CE	2.08	0.67
22:AV:11:VAL:HG12	22:AV:11:VAL:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:24:ALA:C	22:AV:26:GLY:H	1.98	0.67
1:AA:191(F):U:C2	23:AW:105:SER:HB2	2.29	0.67
49:B1:13:PRO:C	49:B1:15:GLU:N	2.45	0.67
55:B7:12:LYS:HG2	55:B7:13:ARG:CZ	2.24	0.67
55:B7:30:ARG:C	55:B7:34:TRP:HE1	1.97	0.67
25:BA:1519:G:H3'	25:BA:1520:U:N1	2.09	0.67
25:BA:1672:C:O2	25:BA:2582:G:O4'	2.11	0.67
25:BA:1992:G:N7	25:BA:1997:G:C6	2.63	0.67
25:BA:200:U:H5'	25:BA:201:C:OP2	1.95	0.67
25:BA:2147:G:C2	25:BA:2148:G:H4'	2.30	0.67
25:BA:2150:U:H2'	25:BA:2151:G:C8	2.29	0.67
25:BA:2262:U:C4'	25:BA:2328:A:H2	2.08	0.67
25:BA:2450:A:H2	25:BA:2451:A:C4	2.13	0.67
25:BA:2468:G:H22	25:BA:2481:G:C2'	1.99	0.67
25:BA:261:G:O2'	25:BA:609:A:H4'	1.95	0.67
25:BA:2666:C:H5	25:BA:2667:C:C2	2.13	0.67
25:BA:2705:A:C8	25:BA:2706:G:N7	2.64	0.67
25:BA:2718:G:H2'	25:BA:2719:G:H8	1.60	0.67
25:BA:2746:U:H4'	32:BH:139:GLN:CA	2.25	0.67
25:BA:740:U:C5	25:BA:741:G:N7	2.63	0.67
25:BA:7:G:H2'	25:BA:8:A:C8	2.30	0.67
28:BD:210:GLY:N	28:BD:213:ARG:HE	1.92	0.67
28:BD:209:ALA:C	28:BD:213:ARG:HG2	2.14	0.67
28:BD:89:SER:CB	28:BD:159:ALA:HB2	2.24	0.67
28:BD:80:ALA:HB2	28:BD:96:HIS:ND1	2.10	0.67
29:BE:36:ARG:CD	29:BE:41:LYS:HZ1	2.08	0.67
29:BE:8:LYS:CE	29:BE:8:LYS:HA	2.14	0.67
29:BE:91:VAL:HG13	29:BE:93:VAL:HG13	1.77	0.67
30:BF:19:GLU:O	30:BF:20:LEU:HD22	1.90	0.67
31:BG:26:GLN:OE1	31:BG:29:TRP:HE3	1.78	0.67
31:BG:57:ALA:CA	31:BG:68:PRO:HD2	2.21	0.67
32:BH:24:VAL:CG2	32:BH:35:VAL:O	2.43	0.67
32:BH:26:VAL:CB	32:BH:75:ALA:HB1	2.25	0.67
25:BA:1007:C:C4'	35:BM:108:PRO:HD3	2.22	0.67
25:BA:1249:U:C4	37:BO:21:ARG:NH1	2.63	0.67
38:BP:89:ASN:O	38:BP:91:GLU:OE2	2.13	0.67
40:BR:24:LEU:HB3	40:BR:40:ILE:O	1.95	0.67
40:BR:92:TYR:CG	40:BR:93:LYS:N	2.61	0.67
42:BT:61:TRP:O	42:BT:65:ILE:HG12	1.95	0.67
25:BA:480:A:H4'	46:BX:42:VAL:HG21	1.76	0.67
48:BZ:48:GLY:HA3	48:BZ:80:HIS:CE1	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1085:A:H1'	25:BA:1086:A:C4'	2.17	0.67
34:BL:131:ALA:HB1	34:BL:136:VAL:HB	1.75	0.67
25:BA:771:G:H2'	25:BA:772:C:H6	1.60	0.67
1:AA:306:G:O2'	1:AA:307:C:H5'	1.95	0.66
1:AA:684:A:H2'	1:AA:685:G:C8	2.28	0.66
1:AA:828:A:H8	1:AA:829:G:C8	2.13	0.66
1:AA:894:G:C5	1:AA:895:G:N7	2.64	0.66
1:AA:922:G:C2	1:AA:923:A:C4	2.82	0.66
3:AD:76:A:N1	25:BA:2431:U:O2'	2.27	0.66
6:AF:150:LYS:HG2	6:AF:169:ALA:CB	2.23	0.66
6:AF:40:ARG:NH1	6:AF:57:ILE:HD12	2.10	0.66
6:AF:72:LYS:O	6:AF:76:VAL:CG2	2.43	0.66
7:AG:22:LYS:HB3	7:AG:26:CYS:CB	2.22	0.66
9:AI:84:ASN:O	9:AI:86:ARG:N	2.28	0.66
13:AM:24:VAL:HG22	13:AM:72:VAL:HG13	1.77	0.66
13:AM:3:LYS:HA	13:AM:3:LYS:HE3	1.76	0.66
14:AN:44:SER:N	14:AN:47:VAL:CG2	2.58	0.66
14:AN:54:ARG:C	14:AN:56:GLY:H	1.96	0.66
15:AO:37:CYS:HB3	15:AO:58:VAL:HG22	1.75	0.66
19:AS:39:TYR:HD1	19:AS:40:ASP:N	1.92	0.66
19:AS:49:LEU:HD21	19:AS:51:VAL:CG2	2.25	0.66
21:AU:21:LYS:HZ3	21:AU:23:LYS:H	1.43	0.66
1:AA:191:G:O2'	23:AW:102:GLY:HA2	1.95	0.66
1:AA:1327:C:OP1	24:AX:20:LYS:HE2	1.95	0.66
49:B1:12:SER:OG	49:B1:62:LYS:HG2	1.95	0.66
50:B2:28:LEU:HA	50:B2:33:GLN:OE1	1.94	0.66
51:B3:10:VAL:O	51:B3:10:VAL:HG12	1.95	0.66
54:B6:42:LEU:HB3	54:B6:44:PRO:HG2	1.77	0.66
25:BA:1003:G:N3	25:BA:1010:A:H2	1.94	0.66
25:BA:1188:U:H2'	25:BA:1189:A:H5'	1.77	0.66
25:BA:1195:G:C2	25:BA:1196:C:C6	2.83	0.66
25:BA:49:A:N1	25:BA:120:U:O4	2.29	0.66
25:BA:810:U:OP1	25:BA:1253:A:C5	2.48	0.66
25:BA:1469:A:H8	25:BA:1469:A:H3'	1.59	0.66
25:BA:1490:A:OP1	25:BA:1490:A:H4'	1.95	0.66
25:BA:1539:G:N7	25:BA:1540:G:N7	2.43	0.66
25:BA:1567:A:OP1	28:BD:59:LYS:HD3	1.95	0.66
25:BA:1609:A:N7	25:BA:1616:A:C2	2.64	0.66
25:BA:1707:G:N2	25:BA:1708:C:C2	2.63	0.66
25:BA:1779:U:H1'	25:BA:1783:A:H62	1.60	0.66
25:BA:1847:A:N6	25:BA:1890:A:OP2	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1931:U:C6	25:BA:1932:A:C8	2.83	0.66
25:BA:1953:A:H4'	25:BA:1953:A:OP1	1.94	0.66
25:BA:2357:U:H2'	25:BA:2358:G:H5''	1.76	0.66
25:BA:2377:A:H2'	25:BA:2378:A:C8	2.30	0.66
25:BA:2405:G:N2	25:BA:2411:A:N7	2.42	0.66
25:BA:2785:C:N4	25:BA:2786:U:O4	2.27	0.66
25:BA:2844:G:H2'	25:BA:2844:G:N3	2.11	0.66
25:BA:364:C:C6	25:BA:364:C:OP2	2.47	0.66
25:BA:583:G:H2'	25:BA:584:C:O5'	1.95	0.66
25:BA:969:U:H2'	25:BA:970:C:H6	1.60	0.66
27:BC:20:TYR:OH	27:BC:222:VAL:HG22	1.95	0.66
27:BC:32:LEU:HD22	27:BC:220:PRO:CG	2.25	0.66
27:BC:40:THR:O	27:BC:42:GLU:HG2	1.93	0.66
27:BC:47:LEU:HG	27:BC:49:ILE:HG23	1.77	0.66
28:BD:127:VAL:HA	28:BD:193:VAL:O	1.94	0.66
28:BD:14:ARG:O	28:BD:15:PHE:CB	2.43	0.66
28:BD:169:GLU:CD	28:BD:169:GLU:C	2.52	0.66
29:BE:151:TYR:CD2	29:BE:152:LYS:N	2.58	0.66
29:BE:37:ARG:HB2	29:BE:39:PRO:CD	2.25	0.66
29:BE:91:VAL:CG1	29:BE:93:VAL:HG22	2.24	0.66
32:BH:119:GLU:O	32:BH:121:ILE:N	2.28	0.66
32:BH:26:VAL:HG21	32:BH:75:ALA:CB	2.25	0.66
33:BK:32:PRO:HG2	33:BK:33:ARG:N	2.08	0.66
37:BO:99:LEU:HD22	37:BO:101:VAL:HG13	1.76	0.66
38:BP:111:GLU:HB2	38:BP:113:GLN:HE22	1.60	0.66
39:BQ:50:HIS:ND1	39:BQ:50:HIS:C	2.48	0.66
40:BR:59:LYS:N	40:BR:59:LYS:HD3	2.09	0.66
41:BS:53:ARG:O	41:BS:100:TYR:HD2	1.77	0.66
41:BS:19:LEU:O	41:BS:20:PRO:C	2.33	0.66
42:BT:98:LEU:HD12	42:BT:105:VAL:HG13	1.76	0.66
42:BT:15:LYS:C	42:BT:18:LEU:HG	2.15	0.66
42:BT:69:CYS:SG	42:BT:76:TYR:CE1	2.87	0.66
42:BT:112:ARG:CZ	43:BU:50:PRO:HG3	2.25	0.66
44:BV:78:GLU:HG2	44:BV:99:ARG:HB3	1.77	0.66
46:BX:53:PRO:O	46:BX:55:TYR:N	2.28	0.66
47:BY:56:VAL:HG11	47:BY:135:GLU:HG2	1.77	0.66
47:BY:18:LEU:HB3	47:BY:23:LYS:O	1.95	0.66
47:BY:18:LEU:HD11	47:BY:38:TYR:CD1	2.30	0.66
33:BK:87:LYS:HE3	33:BK:122:GLU:OE2	1.96	0.66
34:BL:76:TYR:CD2	34:BL:80:LYS:HE2	2.24	0.66
25:BA:219:G:H8	25:BA:219:G:O5'	1.79	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1232:U:OP1	12:AL:125:TYR:O	2.13	0.66
1:AA:1408:A:H62	1:AA:1409:C:N4	1.92	0.66
1:AA:401:C:H2'	1:AA:402:G:O4'	1.95	0.66
1:AA:440:A:O5'	1:AA:440:A:H8	1.77	0.66
1:AA:659:U:O2'	1:AA:660:G:H5'	1.95	0.66
1:AA:812:C:O2	1:AA:813:U:H5	1.78	0.66
5:AE:83:MET:HB2	5:AE:234:PRO:HG3	1.75	0.66
6:AF:42:LEU:O	6:AF:45:LYS:HB3	1.96	0.66
6:AF:47:LEU:CD1	6:AF:49:SER:HB3	2.23	0.66
11:AK:103:VAL:CB	11:AK:108:GLY:HA3	2.23	0.66
11:AK:73:ASP:C	11:AK:73:ASP:OD2	2.33	0.66
1:AA:878:G:H5''	11:AK:89:PRO:HG2	1.76	0.66
14:AN:28:THR:HG22	14:AN:29:ILE:N	2.11	0.66
15:AO:25:PRO:HD2	15:AO:98:TYR:OH	1.95	0.66
15:AO:28:LYS:HE3	15:AO:33:ARG:NH1	2.02	0.66
15:AO:85:ILE:HD11	15:AO:99:HIS:N	2.10	0.66
16:AP:66:LEU:HD23	16:AP:66:LEU:N	2.10	0.66
17:AQ:26:ARG:HD2	17:AQ:47:LEU:HD11	1.77	0.66
17:AQ:24:CYS:HA	17:AQ:39:LEU:HA	1.76	0.66
21:AU:52:PRO:CG	21:AU:54:ARG:HB3	2.23	0.66
22:AV:20:LEU:HD23	22:AV:21:GLU:N	2.09	0.66
49:B1:54:ARG:HG3	49:B1:54:ARG:HH21	1.59	0.66
51:B3:64:GLY:C	51:B3:68:ARG:NH2	2.48	0.66
55:B7:12:LYS:HG2	55:B7:13:ARG:NH1	2.10	0.66
55:B7:44:LYS:NZ	55:B7:44:LYS:HA	2.10	0.66
55:B7:57:ARG:HB2	55:B7:57:ARG:NH1	2.09	0.66
25:BA:1243:G:N1	25:BA:1244:G:C5	2.62	0.66
25:BA:1309:G:H2'	25:BA:1310:G:H5'	1.75	0.66
25:BA:1585:C:H5''	25:BA:1586:A:OP1	1.94	0.66
25:BA:1789:A:H2'	25:BA:1789:A:N3	2.10	0.66
25:BA:2016:U:H5''	25:BA:2058:A:OP1	1.95	0.66
25:BA:2074:U:H5''	25:BA:2075:U:OP1	1.96	0.66
25:BA:2132:U:C3'	25:BA:2133:G:H5'	2.09	0.66
25:BA:2134:A:N3	25:BA:2134:A:OP2	2.28	0.66
25:BA:2211:G:H3'	25:BA:2211:G:N3	2.09	0.66
25:BA:2689:U:H4'	25:BA:2690:C:O5'	1.94	0.66
25:BA:270(P):C:O5'	25:BA:270(P):C:H6	1.77	0.66
25:BA:2711:A:OP1	25:BA:2712(A):A:P	2.52	0.66
25:BA:608:A:H2'	25:BA:609:A:H5'	1.77	0.66
25:BA:625:G:N1	37:BO:100:LEU:HB3	2.09	0.66
25:BA:775:G:N2	25:BA:787:U:H2'	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:919:G:H2'	25:BA:920:G:C8	2.29	0.66
25:BA:919:G:C4	25:BA:920:G:N7	2.63	0.66
26:BB:71:C:O2	26:BB:72:G:O4'	2.14	0.66
27:BC:117:PRO:HB2	27:BC:147:PHE:CE2	2.30	0.66
25:BA:1799:G:O6	28:BD:177:LEU:HD12	1.95	0.66
29:BE:133:LYS:HZ2	29:BE:138:PRO:HD3	1.59	0.66
25:BA:1255:U:C2	30:BF:72:ARG:HB3	2.30	0.66
25:BA:2305:A:O2'	31:BG:154:GLY:HA2	1.94	0.66
31:BG:33:ARG:HH21	31:BG:34:LEU:CA	2.08	0.66
31:BG:75:LYS:HG2	31:BG:84:LYS:HD2	1.75	0.66
33:BK:21:VAL:O	33:BK:22:LYS:O	2.13	0.66
36:BN:107:ARG:O	36:BN:109:LYS:NZ	2.24	0.66
25:BA:2845:G:OP1	41:BS:57:PHE:O	2.11	0.66
36:BN:77:ILE:HD13	41:BS:65:LYS:NZ	2.09	0.66
42:BT:98:LEU:HD12	42:BT:105:VAL:CG1	2.26	0.66
42:BT:54:LYS:CD	42:BT:54:LYS:H	2.07	0.66
42:BT:88:ILE:HB	43:BU:52:VAL:HA	1.77	0.66
47:BY:153:SER:HB2	47:BY:168:GLU:HB2	1.77	0.66
48:BZ:19:LYS:HG2	48:BZ:20:ARG:N	2.09	0.66
33:BK:54:GLN:HE22	33:BK:57:ARG:HB3	1.59	0.66
5:AE:35:GLU:O	5:AE:36:ARG:CZ	2.43	0.66
1:AA:1045:C:O5'	1:AA:1045:C:H6	1.79	0.66
3:AD:28:G:H2'	3:AD:29:C:C6	2.31	0.66
25:BA:44:A:H2'	25:BA:45:G:C8	2.30	0.66
1:AA:1129:C:C1'	1:AA:1130:A:N7	2.58	0.66
1:AA:1193:G:H2'	1:AA:1194:U:O5'	1.96	0.66
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.57	0.66
1:AA:16:A:C2	1:AA:17:U:C6	2.83	0.66
1:AA:519:C:H41	1:AA:520:A:H2	1.42	0.66
1:AA:65:U:H4'	1:AA:66:G:H5''	1.78	0.66
1:AA:819:A:C6	1:AA:1529:G:N7	2.63	0.66
1:AA:965:A:O2'	1:AA:966:G:P	2.52	0.66
5:AE:238:LEU:HD23	5:AE:239:VAL:CG2	2.24	0.66
8:AH:91:LEU:HD23	8:AH:91:LEU:C	2.15	0.66
8:AH:91:LEU:HD23	8:AH:92:LYS:N	2.10	0.66
10:AJ:23:VAL:HG13	10:AJ:43:PHE:CZ	2.30	0.66
12:AL:49:PRO:HD3	12:AL:78:LYS:HZ3	1.59	0.66
13:AM:9:ARG:C	13:AM:94:VAL:HG13	2.16	0.66
14:AN:24:SER:O	14:AN:88:GLY:HA2	1.95	0.66
16:AP:52:GLU:O	16:AP:56:LEU:HG	1.96	0.66
17:AQ:11:LYS:HD2	17:AQ:11:LYS:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:27:CYS:H	17:AQ:43:CYS:CB	2.08	0.66
23:AW:33:ILE:HD13	23:AW:63:ILE:HA	1.77	0.66
50:B2:55:ARG:HH21	50:B2:55:ARG:HA	1.58	0.66
53:B5:29:ASN:O	53:B5:30:THR:O	2.13	0.66
54:B6:20:ALA:HA	54:B6:23:ARG:CZ	2.24	0.66
25:BA:103:A:C4	25:BA:104:U:H5	2.13	0.66
25:BA:1131:G:N2	25:BA:1132:A:C4	2.63	0.66
25:BA:1142(A):A:H3'	25:BA:1143:A:H5'	1.78	0.66
25:BA:1183:G:H3'	25:BA:1183:G:OP2	1.96	0.66
25:BA:1186:G:H3'	25:BA:1187:G:C8	2.30	0.66
25:BA:1288:U:C5'	25:BA:1289:C:OP2	2.42	0.66
25:BA:1363:C:O3'	25:BA:1809:A:C5	2.47	0.66
25:BA:1634:A:O2'	25:BA:1635:G:P	2.53	0.66
25:BA:1935:G:H4'	25:BA:1937:A:N3	2.11	0.66
25:BA:2043:C:H2'	25:BA:2043:C:O2	1.94	0.66
25:BA:2056:G:N2	52:B4:4:HIS:C	2.47	0.66
25:BA:2075:U:C2'	25:BA:2076:U:C5'	2.73	0.66
25:BA:2129:C:P	27:BC:6:ARG:HG3	2.35	0.66
25:BA:2093:G:C2	25:BA:2197:U:O2	2.48	0.66
25:BA:2617:C:O2'	25:BA:2618:G:H5'	1.94	0.66
25:BA:265:A:C8	25:BA:428:A:N6	2.64	0.66
25:BA:270(B):A:H4'	25:BA:270(C):C:C5	2.31	0.66
25:BA:270(M):U:H5''	25:BA:270(N):G:O5'	1.94	0.66
25:BA:2802:G:H2'	25:BA:2803:C:H6	1.58	0.66
25:BA:2852:G:H2'	25:BA:2853:C:H6	1.55	0.66
25:BA:2882:A:H2'	25:BA:2883:A:O5'	1.95	0.66
25:BA:942:G:C2	25:BA:943:U:N3	2.63	0.66
25:BA:1861:G:H4'	27:BC:205:LYS:HE3	1.78	0.66
28:BD:147:LEU:HG	28:BD:154:LYS:HD2	1.76	0.66
28:BD:199:ALA:O	28:BD:202:LYS:HB2	1.95	0.66
25:BA:1775:U:C1'	28:BD:208:LYS:NZ	2.42	0.66
29:BE:101:ARG:HD3	29:BE:170:LEU:O	1.94	0.66
29:BE:169:ASN:HD22	29:BE:170:LEU:N	1.93	0.66
29:BE:13:ARG:HE	29:BE:21:VAL:CA	2.07	0.66
30:BF:174:VAL:O	30:BF:174:VAL:CG2	2.43	0.66
30:BF:34:TRP:HA	30:BF:37:VAL:CG2	2.26	0.66
31:BG:53:LEU:CD2	31:BG:70:VAL:HA	2.24	0.66
35:BM:74:ARG:NH1	35:BM:74:ARG:HG2	2.10	0.66
40:BR:14:VAL:O	40:BR:18:ILE:HB	1.96	0.66
40:BR:49:VAL:HG21	40:BR:80:LEU:HG	1.76	0.66
42:BT:40:PHE:CB	43:BU:78:LYS:HZ1	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:66:ARG:HE	43:BU:95:LEU:CD1	2.07	0.66
43:BU:75:PHE:O	43:BU:86:GLY:HA2	1.96	0.66
46:BX:31:LEU:HB3	46:BX:32:PRO:HD3	1.78	0.66
47:BY:136:PHE:HB3	47:BY:138:GLU:OE2	1.94	0.66
47:BY:127:LYS:HA	47:BY:164:ALA:HB3	1.78	0.66
47:BY:43:GLU:HA	47:BY:46:LYS:CD	2.25	0.66
47:BY:57:ILE:CG1	47:BY:70:LEU:HG	2.24	0.66
25:BA:1057:A:H61	25:BA:1086:A:H2	1.41	0.66
25:BA:844:C:H3'	25:BA:845:G:C8	2.26	0.66
1:AA:1004:A:H5''	1:AA:1025:U:N3	2.09	0.66
1:AA:1025:U:OP1	1:AA:1025:U:H4'	1.95	0.66
1:AA:89:U:H2'	1:AA:90:C:O4'	1.95	0.66
1:AA:91:C:H2'	1:AA:92:G:H8	1.60	0.66
1:AA:1010:G:N2	1:AA:1020:U:H1'	2.10	0.66
14:AN:86:GLY:CA	14:AN:112:THR:HG23	2.25	0.66
1:AA:1085:U:H5''	1:AA:1086:U:H5	1.60	0.66
1:AA:1158:C:C4	1:AA:1160:G:H1'	2.30	0.66
1:AA:1236:A:H4'	1:AA:1304:G:H5''	1.77	0.66
1:AA:1347:G:N2	1:AA:1373:G:C4	2.64	0.66
1:AA:1433:A:H62	1:AA:1467:G:H21	1.44	0.66
1:AA:402:G:O2'	1:AA:620:C:N4	2.28	0.66
1:AA:408:A:H2'	1:AA:409:G:C8	2.29	0.66
1:AA:495:A:H61	7:AG:123:HIS:HE1	1.42	0.66
1:AA:518:C:H2'	1:AA:530:G:H8	1.60	0.66
1:AA:594:G:N2	1:AA:596:C:H41	1.93	0.66
1:AA:799:G:C2	1:AA:800:G:C1'	2.78	0.66
1:AA:953:G:H1'	16:AP:125:ARG:O	1.95	0.66
1:AA:965:A:H1'	1:AA:969:A:C8	2.30	0.66
5:AE:16:HIS:HE1	5:AE:213:LEU:CD1	2.02	0.66
10:AJ:75:VAL:CG2	10:AJ:146:GLU:H	2.07	0.66
11:AK:92:ARG:HH11	11:AK:92:ARG:HG2	1.60	0.66
15:AO:50:SER:O	15:AO:51:ALA:HB2	1.95	0.66
19:AS:71:ARG:HG3	19:AS:80:PHE:CE1	2.30	0.66
20:AT:59:ILE:CD1	20:AT:72:ARG:C	2.64	0.66
1:AA:986:A:H4'	22:AV:55:LYS:CE	2.26	0.66
52:B4:6:VAL:O	52:B4:6:VAL:CG1	2.44	0.66
25:BA:1222:C:OP2	43:BU:69:LYS:NZ	2.19	0.66
25:BA:1342:A:H4'	25:BA:1343:G:OP1	1.95	0.66
25:BA:149:A:C8	25:BA:149:A:H3'	2.28	0.66
25:BA:1508:A:H3'	25:BA:1510:A:C8	2.30	0.66
25:BA:1529:A:H3'	25:BA:1530:G:C8	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1809:A:N1	51:B3:3:GLU:CD	2.49	0.66
25:BA:1818:U:C4	28:BD:156:ALA:CB	2.78	0.66
25:BA:1892:C:H2'	25:BA:1893:C:H6	1.60	0.66
25:BA:1944:U:C6	25:BA:1944:U:C3'	2.77	0.66
25:BA:1993:U:O2'	25:BA:1994:C:H5'	1.95	0.66
25:BA:2208:U:H1'	25:BA:2217:G:C2	2.31	0.66
25:BA:2421:G:H2'	25:BA:2422:A:C8	2.30	0.66
25:BA:2752:C:OP1	25:BA:2752:C:H6	1.77	0.66
25:BA:29:U:OP1	25:BA:583:G:H4'	1.95	0.66
25:BA:330:A:O2'	25:BA:331:A:N7	2.29	0.66
25:BA:388:G:C5'	51:B3:23:GLU:HB3	2.26	0.66
25:BA:458:G:H8	54:B6:39:ARG:HG3	1.60	0.66
25:BA:588:U:H1'	30:BF:90:PHE:CG	2.30	0.66
25:BA:607:U:N3	25:BA:608:A:N7	2.44	0.66
25:BA:729:G:N7	25:BA:730:C:C6	2.64	0.66
25:BA:834:C:H1'	25:BA:2358:G:N2	2.10	0.66
25:BA:858:U:H6	25:BA:859:G:H21	1.40	0.66
25:BA:997:G:N3	25:BA:998:C:C5	2.63	0.66
28:BD:8:PRO:HD2	28:BD:26:LYS:CA	2.26	0.66
29:BE:133:LYS:HB3	29:BE:137:HIS:CD2	2.29	0.66
25:BA:2572:A:C2	29:BE:144:ARG:NH2	2.64	0.66
29:BE:37:ARG:O	29:BE:38:THR:CB	2.43	0.66
29:BE:53:PRO:CG	29:BE:75:VAL:HG22	2.25	0.66
30:BF:46:ARG:NE	30:BF:47:GLY:H	1.85	0.66
31:BG:141:PHE:HE2	31:BG:145:THR:HB	1.60	0.66
31:BG:74:LYS:HG2	31:BG:75:LYS:HG3	1.76	0.66
32:BH:101:ARG:HE	32:BH:101:ARG:HA	1.61	0.66
32:BH:139:GLN:CG	32:BH:140:LYS:N	2.58	0.66
29:BE:151:TYR:CE2	35:BM:78:TYR:HB3	2.29	0.66
37:BO:76:LYS:CA	37:BO:101:VAL:HG11	2.24	0.66
38:BP:99:PRO:HG2	38:BP:101:ARG:HD3	1.78	0.66
38:BP:56:ARG:C	38:BP:56:ARG:HD2	2.15	0.66
43:BU:36:PRO:CA	43:BU:60:GLU:O	2.40	0.66
44:BV:59:VAL:HG21	44:BV:66:GLU:CB	2.24	0.66
46:BX:13:VAL:CA	46:BX:73:ARG:NH1	2.58	0.66
48:BZ:13:GLY:C	48:BZ:14:ARG:HD3	2.16	0.66
48:BZ:51:VAL:HG21	48:BZ:79:VAL:O	1.95	0.66
33:BK:111:PRO:HG2	33:BK:112:LYS:HG3	1.76	0.66
25:BA:1066:U:O2'	25:BA:1068:G:H3'	1.95	0.66
34:BL:111:LYS:O	34:BL:113:PRO:HD2	1.96	0.66
1:AA:208:U:O3'	1:AA:209:U:H6	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:53:VAL:HG12	11:AK:54:ASP:OD1	1.95	0.66
1:AA:17:U:H1'	1:AA:1079:G:H21	1.60	0.66
1:AA:174:C:C4	1:AA:175:C:N4	2.61	0.66
1:AA:296:U:C4	1:AA:297:G:N7	2.64	0.66
1:AA:362:G:N3	1:AA:364:A:C8	2.63	0.66
1:AA:394:G:H2'	1:AA:395:C:H6	1.60	0.66
1:AA:483:C:H3'	1:AA:483:C:H6	1.60	0.66
1:AA:530:G:C3'	1:AA:530:G:N3	2.57	0.66
1:AA:594:G:N7	1:AA:595:G:N3	2.43	0.66
1:AA:778:G:H2'	1:AA:779:C:O4'	1.96	0.66
1:AA:968:A:H5''	1:AA:969:A:O5'	1.96	0.66
5:AE:91:PRO:HD3	5:AE:154:LEU:HD13	1.75	0.66
6:AF:46:GLU:HB3	6:AF:47:LEU:HD22	1.77	0.66
7:AG:64:LEU:C	7:AG:64:LEU:HD22	2.16	0.66
1:AA:402:G:OP1	7:AG:74:GLN:HG2	1.95	0.66
9:AI:78:GLU:O	9:AI:81:ILE:HG13	1.95	0.66
10:AJ:137:LYS:O	10:AJ:140:ASP:HB2	1.95	0.66
11:AK:107:LEU:H	11:AK:107:LEU:CD2	2.06	0.66
1:AA:755:G:H21	11:AK:1:MET:HE3	1.59	0.66
13:AM:60:ARG:NH1	13:AM:60:ARG:HB2	2.11	0.66
17:AQ:9:LYS:HZ3	17:AQ:12:ARG:NH2	1.94	0.66
18:AR:36:ILE:CG2	18:AR:37:ASN:HD22	2.09	0.66
52:B4:35:GLU:HB3	52:B4:49:CYS:CB	2.25	0.66
55:B7:26:LYS:HB2	55:B7:44:LYS:HZ1	1.60	0.66
25:BA:1140:C:H4'	25:BA:1143:A:N7	2.10	0.66
25:BA:1349:A:H4'	25:BA:1350:C:OP2	1.95	0.66
25:BA:1647:G:H4'	25:BA:1648:C:OP1	1.95	0.66
25:BA:1930:G:O2'	25:BA:1931:U:P	2.53	0.66
25:BA:2333:A:C1'	25:BA:2335:A:N3	2.54	0.66
25:BA:2407:G:N2	25:BA:2408:U:C1'	2.57	0.66
25:BA:1128:A:C6	25:BA:2518:A:N6	2.62	0.66
25:BA:2526:G:H2'	25:BA:2527:C:O5'	1.95	0.66
25:BA:25:U:O2	25:BA:25:U:H2'	1.94	0.66
25:BA:2603:G:OP2	48:BZ:1:MET:CB	2.37	0.66
25:BA:263:C:O2	25:BA:264:C:O4'	2.14	0.66
25:BA:270(R):G:H2'	25:BA:270(S):G:C8	2.30	0.66
25:BA:273(B):C:H2'	25:BA:273(C):C:C6	2.30	0.66
25:BA:2839:G:H2'	25:BA:2840:C:C6	2.30	0.66
27:BC:76:ALA:HB1	27:BC:149:ILE:CD1	2.23	0.66
27:BC:22:ILE:HG23	27:BC:189:ILE:HD12	1.78	0.66
27:BC:32:LEU:HD13	27:BC:220:PRO:CG	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:8:PRO:CG	28:BD:26:LYS:HG3	2.25	0.66
28:BD:8:PRO:CD	28:BD:26:LYS:C	2.64	0.66
29:BE:50:GLY:HA3	29:BE:76:ARG:HE	1.57	0.66
29:BE:53:PRO:HG3	29:BE:75:VAL:HG22	1.76	0.66
30:BF:30:PRO:HA	30:BF:33:LEU:CD2	2.25	0.66
32:BH:6:ARG:CA	32:BH:6:ARG:NH1	2.58	0.66
33:BK:33:ARG:CB	33:BK:35:LEU:HD23	2.25	0.66
36:BN:97:ARG:NH1	36:BN:98:VAL:CA	2.58	0.66
40:BR:69:VAL:O	40:BR:73:LEU:HD22	1.96	0.66
40:BR:73:LEU:N	40:BR:73:LEU:CD1	2.58	0.66
41:BS:17:THR:HG21	41:BS:20:PRO:HA	1.76	0.66
41:BS:64:ARG:NH2	41:BS:77:PRO:CB	2.59	0.66
42:BT:52:ARG:HA	42:BT:55:ARG:HE	1.61	0.66
45:BW:47:PHE:HB3	45:BW:49:VAL:CG1	2.25	0.66
46:BX:15:VAL:HG12	46:BX:16:ALA:N	2.11	0.66
46:BX:47:LYS:HE2	46:BX:49:VAL:HG11	1.76	0.66
48:BZ:40:GLN:HG2	48:BZ:45:PHE:HB2	1.76	0.66
33:BK:109:ILE:CG1	33:BK:113:ARG:HH21	2.08	0.66
1:AA:290:C:H6	1:AA:290:C:O5'	1.77	0.66
1:AA:482:A:C2	1:AA:483:C:O4'	2.42	0.66
1:AA:522:C:H5''	15:AO:120:TYR:OH	1.96	0.66
1:AA:685:G:N2	1:AA:686:U:O4	2.28	0.66
1:AA:719:C:H3'	1:AA:720:C:C6	2.31	0.66
1:AA:761:G:C5'	20:AT:102:GLY:HA3	2.24	0.66
1:AA:792:A:O2'	1:AA:794:A:N7	2.25	0.66
1:AA:854:G:P	1:AA:871:U:O2	2.54	0.66
2:AC:9:G:H4'	2:AC:10:G:OP1	1.93	0.66
6:AF:18:TRP:CZ2	17:AQ:55:GLY:O	2.49	0.66
6:AF:194:GLY:O	6:AF:196:LEU:CD2	2.43	0.66
7:AG:145:GLU:HA	7:AG:183:GLY:O	1.96	0.66
7:AG:8:VAL:O	7:AG:11:LEU:N	2.29	0.66
8:AH:105:VAL:HG21	8:AH:132:ALA:HB2	1.77	0.66
12:AL:113:LYS:NZ	12:AL:119:ALA:HB1	2.11	0.66
12:AL:117:HIS:C	12:AL:119:ALA:H	1.99	0.66
15:AO:84:LEU:CB	15:AO:104:VAL:HG11	2.23	0.66
20:AT:53:LEU:HD21	20:AT:85:VAL:CG1	2.26	0.66
20:AT:7:THR:O	20:AT:23:VAL:HG23	1.94	0.66
22:AV:38:SER:O	22:AV:70:LYS:HA	1.94	0.66
50:B2:28:LEU:HA	50:B2:33:GLN:CD	2.16	0.66
50:B2:50:VAL:CG2	50:B2:53:LEU:HD12	2.24	0.66
51:B3:11:PRO:C	51:B3:40:HIS:NE2	2.48	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B5:19:ARG:HH22	53:B5:41:PRO:CD	2.09	0.66
37:BO:58:THR:OG1	55:B7:12:LYS:HA	1.94	0.66
55:B7:3:LYS:HZ1	55:B7:59:LYS:NZ	1.92	0.66
25:BA:1275:A:H62	25:BA:1296:G:C5'	2.07	0.66
25:BA:137(A):G:N3	25:BA:138:G:O6	2.29	0.66
25:BA:1416:G:N2	25:BA:1583:A:N6	2.43	0.66
25:BA:1464:C:H2'	25:BA:1465:G:C8	2.28	0.66
25:BA:1492:G:H21	25:BA:1493:C:H42	1.43	0.66
25:BA:1499:C:H2'	25:BA:1500:G:C8	2.28	0.66
25:BA:1542:G:N7	25:BA:1544:C:N3	2.43	0.66
25:BA:1663:C:H3'	25:BA:1664:A:N7	2.10	0.66
25:BA:1802:A:H2'	25:BA:1802:A:N3	2.10	0.66
25:BA:200:U:C5	25:BA:201:C:C6	2.83	0.66
25:BA:2024:G:H2'	25:BA:2025:C:H6	1.61	0.66
25:BA:204:A:O2'	25:BA:205:G:P	2.54	0.66
25:BA:2175:C:H1'	27:BC:217:THR:O	1.94	0.66
25:BA:2333:A:C4'	25:BA:2335:A:O4'	2.43	0.66
25:BA:241:A:H1'	25:BA:243:U:N1	2.10	0.66
25:BA:2491:U:C5	25:BA:2492:U:C5'	2.79	0.66
25:BA:960:A:C2	25:BA:2496:C:H1'	2.30	0.66
25:BA:2498:C:O2	25:BA:2498:C:H2'	1.94	0.66
25:BA:1669:A:O2'	25:BA:2549:G:OP1	2.13	0.66
25:BA:2686:G:O2'	25:BA:2687:U:H5'	1.96	0.66
25:BA:533:G:OP2	42:BT:25:TRP:HB2	1.95	0.66
25:BA:638:G:H2'	25:BA:639:U:O5'	1.94	0.66
25:BA:819:A:C4	25:BA:1189:A:C2	2.84	0.66
26:BB:42:C:H2'	26:BB:43:C:C6	2.31	0.66
27:BC:78:ALA:O	27:BC:119:VAL:HG11	1.96	0.66
28:BD:75:ILE:HG23	28:BD:98:VAL:HB	1.75	0.66
30:BF:135:LYS:HD3	30:BF:135:LYS:C	2.16	0.66
30:BF:197:ASP:HA	30:BF:200:GLU:CG	2.25	0.66
30:BF:57:VAL:O	30:BF:60:SER:OG	2.10	0.66
25:BA:2303:G:O2'	31:BG:132:ASN:CG	2.34	0.66
32:BH:120:GLY:O	32:BH:135:GLY:HA2	1.95	0.66
39:BQ:17:ARG:HB3	39:BQ:17:ARG:NH1	2.10	0.66
25:BA:2723:C:O3'	39:BQ:2:ARG:N	2.27	0.66
41:BS:18:ASP:CG	41:BS:81:PRO:HG3	2.15	0.66
41:BS:29:ARG:HA	41:BS:50:ILE:O	1.95	0.66
42:BT:114:LYS:CG	42:BT:115:ALA:N	2.58	0.66
25:BA:566:U:OP2	43:BU:82:ARG:HD3	1.96	0.66
47:BY:11:GLU:HG2	47:BY:36:LYS:HZ2	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:78:LYS:CG	47:BY:79:ARG:H	2.09	0.66
1:AA:1295:G:H21	1:AA:1302:U:H3	1.43	0.66
1:AA:1431:C:O2'	1:AA:1432:G:H5'	1.96	0.66
1:AA:1461:G:H2'	1:AA:1462:G:C8	2.31	0.66
1:AA:317:G:H2'	1:AA:318:G:O5'	1.96	0.66
1:AA:56:U:H2'	1:AA:57:G:C8	2.30	0.66
5:AE:144:ARG:O	5:AE:147:LYS:HB3	1.94	0.66
5:AE:16:HIS:C	5:AE:204:ASN:HB2	2.16	0.66
7:AG:31:CYS:O	7:AG:31:CYS:SG	2.54	0.66
1:AA:542:G:H5'	7:AG:41:GLY:HA2	1.77	0.66
8:AH:79:GLU:O	8:AH:80:ILE:HG23	1.96	0.66
9:AI:85:VAL:HG12	9:AI:88:VAL:HG23	1.78	0.66
10:AJ:155:ARG:HA	10:AJ:155:ARG:CZ	2.26	0.66
12:AL:42:ARG:HB3	12:AL:74:ILE:CD1	2.25	0.66
12:AL:49:PRO:CD	12:AL:78:LYS:HG2	2.25	0.66
14:AN:32:ILE:HD11	14:AN:68:ALA:O	1.95	0.66
16:AP:4:ILE:HG13	16:AP:8:GLU:CB	2.24	0.66
24:AX:20:LYS:HE3	24:AX:21:TYR:CE2	2.30	0.66
55:B7:30:ARG:CZ	55:B7:41:ILE:O	2.44	0.66
25:BA:1025:G:N3	25:BA:1025:G:C2'	2.59	0.66
25:BA:1203:G:N3	25:BA:1203:G:C2'	2.58	0.66
25:BA:812:C:H1'	25:BA:1250:G:C2	2.31	0.66
25:BA:1536:A:H2'	25:BA:1537:C:C6	2.30	0.66
25:BA:1569:A:C2	25:BA:1570:A:C4	2.83	0.66
25:BA:1608:A:O2'	25:BA:1609:A:H5'	1.95	0.66
25:BA:1706:U:O2'	25:BA:1707:G:OP1	2.13	0.66
25:BA:1912:A:C6	25:BA:1919:A:C4	2.84	0.66
25:BA:1919:A:OP2	25:BA:1920:C:H5	1.79	0.66
25:BA:1935:G:H2'	25:BA:1962:C:H42	1.59	0.66
25:BA:579:G:H5''	25:BA:2018:G:H5''	1.77	0.66
25:BA:46:C:H41	25:BA:214:G:H8	1.44	0.66
25:BA:2345:G:H21	25:BA:2381:C:C2'	2.08	0.66
25:BA:220:G:C4'	25:BA:234:C:H4'	2.26	0.66
25:BA:2440:C:H5''	25:BA:2587:A:H4'	1.77	0.66
25:BA:2586:C:N4	25:BA:2587:A:N6	2.44	0.66
25:BA:2632:A:H1'	29:BE:61:ARG:NH1	2.10	0.66
25:BA:2634:G:H2'	25:BA:2635:C:O5'	1.95	0.66
25:BA:292:C:H2'	25:BA:293:U:H3	1.59	0.66
25:BA:34:C:H5''	25:BA:35:G:OP2	1.95	0.66
25:BA:46:C:OP2	25:BA:215:G:H2'	1.95	0.66
25:BA:612:G:OP2	25:BA:612:G:C8	2.49	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:70:G:H5''	25:BA:71:A:OP1	1.95	0.66
25:BA:466:A:H2	25:BA:795:C:O2	1.77	0.66
25:BA:819:A:H4'	25:BA:838:C:H5'	1.78	0.66
28:BD:176:ARG:NH2	28:BD:182:LEU:HD11	2.10	0.66
28:BD:51:VAL:HG12	28:BD:52:ARG:HG3	1.77	0.66
35:BM:123:TYR:CD2	35:BM:129:PRO:HB2	2.30	0.66
35:BM:75:TYR:HD1	35:BM:75:TYR:H	1.43	0.66
36:BN:64:ARG:NH1	36:BN:68:GLU:N	2.42	0.66
36:BN:97:ARG:CB	36:BN:97:ARG:HH21	2.03	0.66
39:BQ:33:ARG:HB2	39:BQ:115:GLU:CB	2.25	0.66
41:BS:93:ARG:HB2	41:BS:95:ARG:HH12	1.60	0.66
42:BT:32:PHE:HB3	42:BT:36:ARG:HH21	1.60	0.66
48:BZ:19:LYS:NZ	48:BZ:41:ARG:NH2	2.42	0.66
47:BY:112:ARG:O	47:BY:112:ARG:HG2	1.96	0.66
10:AJ:129:GLU:OE2	10:AJ:131:LYS:HD3	1.96	0.66
34:BL:14:ALA:HB2	34:BL:53:VAL:CB	2.21	0.66
1:AA:1159:U:H5	1:AA:1182:G:H1'	1.58	0.66
1:AA:503:C:N3	1:AA:504:C:C5	2.64	0.66
1:AA:608:A:N1	1:AA:609:A:C8	2.64	0.66
1:AA:687:A:O2'	1:AA:688:G:OP2	2.12	0.66
2:AC:16:C:P	2:AC:60:U:O2'	2.54	0.66
5:AE:28:PHE:HE2	5:AE:189:ASP:O	1.78	0.66
6:AF:50:ALA:O	6:AF:72:LYS:HD2	1.96	0.66
7:AG:11:LEU:HA	7:AG:14:ARG:HB3	1.78	0.66
7:AG:153:ARG:HA	7:AG:158:ILE:HG21	1.76	0.66
7:AG:20:TYR:CD1	7:AG:21:LEU:N	2.64	0.66
7:AG:78:LEU:HD13	7:AG:93:PHE:CE2	2.30	0.66
7:AG:78:LEU:HD21	7:AG:96:LEU:HD22	1.77	0.66
9:AI:50:TYR:HD2	9:AI:50:TYR:O	1.79	0.66
11:AK:40:ALA:HA	11:AK:43:GLY:O	1.96	0.66
12:AL:16:ARG:O	12:AL:63:ILE:HG23	1.95	0.66
1:AA:1307:U:O4'	16:AP:109:THR:HG21	1.96	0.66
18:AR:32:LEU:HD23	18:AR:32:LEU:N	2.10	0.66
19:AS:39:TYR:C	19:AS:39:TYR:CD1	2.69	0.66
1:AA:663:A:H4'	21:AU:61:LYS:NZ	2.11	0.66
21:AU:74:ARG:HG3	21:AU:79:LEU:HD22	1.76	0.66
1:AA:1222:G:OP1	22:AV:77:THR:HG21	1.95	0.66
23:AW:90:GLN:HA	23:AW:93:GLU:OE1	1.95	0.66
49:B1:16:LEU:HD22	49:B1:58:VAL:CG2	2.26	0.66
49:B1:5:LEU:CD2	49:B1:9:ARG:HH11	2.07	0.66
25:BA:458:G:C2'	54:B6:40:TRP:NE1	2.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:72:U:O4	25:BA:112:U:H1'	1.94	0.66
25:BA:126:A:N7	25:BA:127:A:C2	2.64	0.66
25:BA:1428:C:C4	25:BA:1569:A:H5''	2.31	0.66
25:BA:1324:G:H1'	25:BA:1616:A:N6	2.11	0.66
25:BA:1988:C:H2'	25:BA:1989:G:O5'	1.95	0.66
25:BA:2231:C:H2'	25:BA:2232:U:H6	1.60	0.66
25:BA:2309:A:N6	31:BG:80:PHE:HE1	1.94	0.66
25:BA:2344:U:H3'	53:B5:38:LYS:HG3	1.76	0.66
25:BA:2586:C:N4	25:BA:2587:A:H62	1.94	0.66
25:BA:2623:G:H21	52:B4:22:HIS:CE1	2.11	0.66
25:BA:270:A:H2'	25:BA:270(A):A:C4'	2.26	0.66
25:BA:2781:A:H2'	25:BA:2782:G:C1'	2.26	0.66
25:BA:2818:G:N2	25:BA:2829:C:N3	2.44	0.66
25:BA:2847:U:C5	25:BA:2848:G:N7	2.64	0.66
25:BA:298:G:N1	25:BA:338:G:O2'	2.28	0.66
25:BA:619:G:N7	25:BA:620:G:N2	2.43	0.66
25:BA:627:A:O2'	25:BA:628:G:O4'	2.14	0.66
25:BA:643:A:HO2'	25:BA:644:A:H8	1.44	0.66
25:BA:739:G:C2'	25:BA:1784:A:C6	2.79	0.66
25:BA:920:G:N2	25:BA:921:G:C4	2.64	0.66
27:BC:23:ASP:OD1	27:BC:186:ALA:HB2	1.96	0.66
28:BD:147:LEU:H	28:BD:154:LYS:CG	2.08	0.66
28:BD:80:ALA:O	28:BD:81:ALA:HB2	1.96	0.66
28:BD:84:TYR:CD2	28:BD:84:TYR:N	2.62	0.66
28:BD:8:PRO:CG	28:BD:26:LYS:H	2.09	0.66
29:BE:21:VAL:O	29:BE:185:LYS:HB2	1.96	0.66
30:BF:201:VAL:HG12	30:BF:205:ARG:NH2	2.04	0.66
31:BG:135:LEU:HD13	31:BG:137:GLU:O	1.96	0.66
31:BG:181:ARG:NH2	31:BG:181:ARG:HA	2.04	0.66
35:BM:70:LYS:CE	35:BM:86:PRO:HB3	2.24	0.66
35:BM:67:LEU:HD23	35:BM:88:GLU:OE2	1.96	0.66
38:BP:7:MET:O	38:BP:8:LYS:HB3	1.95	0.66
39:BQ:44:LEU:CD1	39:BQ:48:VAL:HG21	2.25	0.66
40:BR:62:LYS:O	40:BR:65:VAL:N	2.28	0.66
36:BN:121:VAL:CA	41:BS:70:VAL:HG12	2.25	0.66
44:BV:13:SER:CB	44:BV:14:PRO:HD2	2.26	0.66
46:BX:38:ILE:HG23	46:BX:60:PHE:CZ	2.31	0.66
47:BY:105:VAL:N	47:BY:140:ASP:OD1	2.28	0.66
47:BY:68:PRO:HG3	47:BY:131:ARG:NH1	2.11	0.66
34:BL:77:LEU:HA	34:BL:80:LYS:HB2	1.77	0.66
1:AA:1088:G:C2	1:AA:1089:G:C8	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.31	0.66
1:AA:1401:G:C2'	1:AA:1402:C:H5'	2.26	0.66
1:AA:335:C:O2'	1:AA:1433:A:H1'	1.96	0.66
1:AA:451:A:H1'	1:AA:452:A:C5	2.31	0.66
1:AA:946:A:C4	1:AA:947:G:N7	2.63	0.66
3:AD:36:A:C6	4:A1:14:A:N6	2.59	0.66
5:AE:21:ARG:CD	5:AE:23:ARG:HD2	2.26	0.66
5:AE:56:ARG:HG2	5:AE:59:GLU:OE2	1.96	0.66
7:AG:106:TYR:CE1	7:AG:112:VAL:C	2.70	0.66
7:AG:199:ASN:CG	7:AG:200:GLU:H	1.98	0.66
8:AH:107:ARG:NH1	8:AH:107:ARG:CB	2.59	0.66
8:AH:84:PHE:CE1	8:AH:133:TYR:HB3	2.30	0.66
11:AK:101:PRO:O	11:AK:102:ARG:CB	2.44	0.66
11:AK:109:ILE:HG12	11:AK:137:VAL:N	2.10	0.66
14:AN:67:ASP:N	14:AN:70:LYS:NZ	2.44	0.66
15:AO:36:VAL:C	15:AO:58:VAL:HG13	2.16	0.66
15:AO:85:ILE:HD12	15:AO:99:HIS:O	1.95	0.66
16:AP:108:ARG:HH11	16:AP:108:ARG:CA	2.09	0.66
18:AR:6:GLU:O	18:AR:9:GLN:HB2	1.95	0.66
23:AW:44:ALA:HB1	23:AW:92:LEU:HG	1.77	0.66
49:B1:58:VAL:CG2	49:B1:59:LEU:N	2.58	0.66
25:BA:461:C:H42	54:B6:40:TRP:HH2	1.42	0.66
55:B7:9:GLY:O	55:B7:12:LYS:O	2.14	0.66
55:B7:5:LYS:HG2	55:B7:7:HIS:CD2	2.30	0.66
56:B8:4:ARG:O	56:B8:5:ALA:HB2	1.96	0.66
25:BA:1022:G:H2'	25:BA:1025:G:O6	1.96	0.66
25:BA:1044:G:N2	25:BA:1111:A:C4'	2.59	0.66
25:BA:1210:A:N3	25:BA:1212:G:N2	2.43	0.66
25:BA:1486:A:O2'	25:BA:1487:G:H5'	1.95	0.66
25:BA:1496:A:H2'	25:BA:1497:U:H5	1.61	0.66
25:BA:1558:A:H2	25:BA:1560:G:H1'	1.58	0.66
25:BA:163:U:O4	25:BA:171:G:H1'	1.96	0.66
25:BA:175:G:N2	25:BA:176:G:C1'	2.58	0.66
25:BA:1789:A:H5'	25:BA:1790:C:OP2	1.96	0.66
25:BA:1933:G:N2	25:BA:1934:C:H1'	2.10	0.66
25:BA:196:A:H3'	25:BA:2068:U:O4	1.96	0.66
25:BA:223:A:C5	25:BA:408:G:H1'	2.31	0.66
25:BA:2350:C:N4	25:BA:2382:G:N1	2.43	0.66
25:BA:2447:G:C5	25:BA:2501:C:C2	2.84	0.66
25:BA:2603:G:H2'	25:BA:2604:U:O5'	1.96	0.66
25:BA:2624:G:H3'	25:BA:2625:G:H5''	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2629:A:O2'	25:BA:2630:G:O5'	2.13	0.66
25:BA:2713:A:C5'	25:BA:2714:G:OP2	2.43	0.66
25:BA:546:C:H2'	25:BA:547:A:N9	2.09	0.66
25:BA:618(A):C:C4	25:BA:619:G:N2	2.63	0.66
25:BA:648:G:C4	25:BA:649:G:C8	2.84	0.66
25:BA:684:G:OP1	54:B6:16:HIS:NE2	2.29	0.66
25:BA:930:U:HO2'	25:BA:931:G:P	2.18	0.66
25:BA:941:A:N1	25:BA:942:G:C2	2.64	0.66
25:BA:997:G:C2	25:BA:998:C:C5	2.84	0.66
29:BE:120:TRP:CZ2	29:BE:122:PHE:HB2	2.31	0.66
29:BE:131:ALA:HB1	29:BE:134:ILE:CD1	2.25	0.66
31:BG:39:ILE:HD12	31:BG:39:ILE:N	2.11	0.66
31:BG:72:ARG:HG2	31:BG:88:ILE:HG12	1.77	0.66
31:BG:6:ALA:HA	31:BG:9:ARG:CZ	2.25	0.66
35:BM:95:PRO:HA	35:BM:98:VAL:CG2	2.26	0.66
37:BO:46:LYS:NZ	37:BO:50:ARG:CZ	2.58	0.66
39:BQ:5:LYS:HE2	39:BQ:6:SER:H	1.60	0.66
25:BA:1453:A:N6	39:BQ:63:ARG:NH2	2.44	0.66
36:BN:106:LEU:HD21	41:BS:38:ASN:HD21	1.61	0.66
41:BS:65:LYS:CE	41:BS:75:ILE:CD1	2.74	0.66
41:BS:85:LYS:HB3	41:BS:85:LYS:NZ	2.11	0.66
42:BT:104:GLN:O	42:BT:107:ALA:HB3	1.96	0.66
42:BT:49:HIS:HA	42:BT:52:ARG:NE	2.10	0.66
44:BV:19:LEU:CD2	52:B4:25:LEU:HB2	2.25	0.66
45:BW:66:LEU:CD2	45:BW:70:LEU:HA	2.26	0.66
46:BX:2:ARG:NE	46:BX:3:VAL:N	2.44	0.66
46:BX:35:TYR:HE1	46:BX:65:ALA:O	1.78	0.66
48:BZ:25:ARG:CG	48:BZ:37:LEU:HA	2.26	0.66
48:BZ:21:LEU:HD11	48:BZ:40:GLN:CA	2.26	0.66
25:BA:1085:A:O2'	25:BA:1086:A:P	2.54	0.66
34:BL:112:MET:HE3	34:BL:115:LEU:HD12	1.77	0.66
34:BL:93:ARG:O	34:BL:93:ARG:HG2	1.96	0.66
25:BA:315:G:H2'	25:BA:316:C:C1'	2.26	0.66
31:BG:81:LYS:HG2	31:BG:81:LYS:O	1.96	0.66
1:AA:1215:G:C2	1:AA:1216:G:C8	2.84	0.66
1:AA:1394:A:O2'	1:AA:1395:C:P	2.54	0.66
1:AA:1401:G:N1	1:AA:1504:G:N2	2.41	0.66
1:AA:196:A:N3	1:AA:222:U:H1'	2.11	0.66
1:AA:373:A:H2'	1:AA:374:A:H8	1.58	0.66
1:AA:523:A:N6	15:AO:53:ARG:HH22	1.94	0.66
1:AA:727:G:N2	1:AA:731:G:C6	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:967:C:H6	1:AA:967:C:O5'	1.79	0.66
5:AE:16:HIS:CA	5:AE:204:ASN:HB2	2.25	0.66
6:AF:150:LYS:NZ	6:AF:152:ILE:CG2	2.59	0.66
6:AF:156:ARG:HH12	6:AF:161:GLU:CA	2.08	0.66
6:AF:149:ALA:O	6:AF:169:ALA:HA	1.96	0.66
6:AF:179:ARG:HG2	6:AF:206:GLU:HG2	1.78	0.66
7:AG:198:VAL:HG23	7:AG:199:ASN:N	2.11	0.66
9:AI:10:LEU:HD23	9:AI:10:LEU:N	2.11	0.66
11:AK:26:VAL:HG22	11:AK:27:PRO:HD2	1.76	0.66
12:AL:110:GLU:O	12:AL:111:ARG:CB	2.38	0.66
12:AL:22:GLY:HA3	12:AL:60:ASP:OD2	1.96	0.66
14:AN:128:ALA:O	14:AN:129:SER:HB2	1.96	0.66
14:AN:99:GLN:HA	14:AN:105:VAL:CG2	2.25	0.66
16:AP:3:ARG:NH1	31:BG:139:LEU:HD23	2.10	0.66
16:AP:91:ARG:CD	16:AP:96:LEU:HD21	2.26	0.66
19:AS:39:TYR:C	19:AS:39:TYR:HD1	1.99	0.66
19:AS:42:ARG:C	19:AS:43:LYS:HD2	2.16	0.66
20:AT:86:GLU:OE1	20:AT:86:GLU:HA	1.94	0.66
53:B5:14:THR:HG22	53:B5:51:GLU:HG3	1.78	0.66
54:B6:30:VAL:HG22	54:B6:33:ARG:CZ	2.25	0.66
56:B8:2:LYS:HE2	56:B8:35:ARG:HD2	1.78	0.66
25:BA:1014:U:C2'	25:BA:1015:G:H5'	2.26	0.66
25:BA:85:G:H1'	25:BA:103:A:N1	2.10	0.66
25:BA:1320:C:O2'	25:BA:1321:A:H5''	1.95	0.66
25:BA:1329:U:C5'	25:BA:1330:C:H5	2.08	0.66
25:BA:13:A:H61	25:BA:525:U:C2'	2.08	0.66
25:BA:1531:C:H2'	25:BA:1532:C:C6	2.31	0.66
25:BA:1775:U:H5	25:BA:1776:G:C8	2.13	0.66
25:BA:1842:G:O2'	25:BA:1843:C:H5'	1.96	0.66
25:BA:1971:A:C2	28:BD:239:ARG:CA	2.73	0.66
25:BA:197:A:H3'	25:BA:198:C:C6	2.30	0.66
25:BA:2107:C:H2'	25:BA:2108:C:C6	2.30	0.66
25:BA:2112:G:H2'	25:BA:2112:G:N3	2.11	0.66
25:BA:2349:G:C3'	25:BA:2350:C:H5''	2.25	0.66
25:BA:2460:U:H5''	25:BA:2460:U:H6	1.60	0.66
25:BA:260:G:C2	25:BA:261:G:C8	2.84	0.66
25:BA:2794:C:C2	25:BA:2799:A:H2	2.14	0.66
25:BA:415:A:N1	25:BA:416:C:O2	2.29	0.66
25:BA:650:C:N4	25:BA:651:G:N2	2.43	0.66
25:BA:906:G:N3	25:BA:906:G:H2'	2.10	0.66
25:BA:960:A:H5''	25:BA:961:C:OP1	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:966:G:C6	25:BA:967:C:N4	2.64	0.66
25:BA:991:C:H5'	25:BA:1185:C:H2'	1.78	0.66
26:BB:46:A:H2'	26:BB:47:C:N1	2.10	0.66
27:BC:182:PRO:HG2	27:BC:183:GLU:OE2	1.94	0.66
27:BC:59:ARG:NH2	27:BC:164:ARG:NH1	2.44	0.66
29:BE:46:ALA:HB1	29:BE:48:GLN:OE1	1.96	0.66
30:BF:132:VAL:HG22	30:BF:135:LYS:CB	2.25	0.66
30:BF:174:VAL:O	30:BF:174:VAL:HG22	1.94	0.66
30:BF:126:VAL:HB	30:BF:197:ASP:OD2	1.95	0.66
31:BG:57:ALA:HB1	31:BG:67:LYS:HB2	1.76	0.66
31:BG:96:ARG:O	31:BG:99:MET:CB	2.40	0.66
35:BM:123:TYR:O	35:BM:125:GLY:N	2.28	0.66
36:BN:43:VAL:CG1	36:BN:54:GLU:HA	2.02	0.66
37:BO:7:ARG:HB2	37:BO:8:PRO:HD3	1.78	0.66
41:BS:53:ARG:NH2	41:BS:102:ILE:H	1.94	0.66
41:BS:56:GLY:O	41:BS:61:PHE:HB3	1.95	0.66
36:BN:73:ASP:O	41:BS:82:LEU:HD21	1.94	0.66
42:BT:92:ARG:CA	42:BT:95:LEU:HG	2.20	0.66
44:BV:25:ARG:O	44:BV:27:LYS:N	2.28	0.66
47:BY:18:LEU:HD11	47:BY:38:TYR:CG	2.31	0.66
25:BA:1078:U:O2	25:BA:1088:A:O2'	2.09	0.66
3:AD:30:G:H2'	3:AD:31:A:C8	2.31	0.66
1:AA:1326:C:H2'	1:AA:1327:C:H6	1.60	0.65
1:AA:133:U:O3'	1:AA:134:A:H8	1.79	0.65
1:AA:1503:A:N3	1:AA:1503:A:H2'	2.09	0.65
1:AA:155:C:C2'	1:AA:156:G:H5'	2.26	0.65
1:AA:184:G:O4'	1:AA:224:C:H4'	1.96	0.65
1:AA:394:G:H2'	1:AA:395:C:C6	2.31	0.65
1:AA:564:C:N4	1:AA:565:U:C4	2.65	0.65
1:AA:714:G:H4'	1:AA:776:G:H5'	1.77	0.65
5:AE:101:MET:CB	5:AE:108:ILE:HG21	2.26	0.65
5:AE:74:LYS:HD2	5:AE:76:GLN:HB2	1.78	0.65
5:AE:97:TRP:C	5:AE:99:GLY:H	2.00	0.65
6:AF:116:VAL:CG1	6:AF:141:VAL:HG21	2.22	0.65
7:AG:125:HIS:HB3	7:AG:152:SER:CB	2.27	0.65
7:AG:24:GLU:C	7:AG:27:TYR:HB3	2.17	0.65
8:AH:147:ASP:HA	8:AH:150:ARG:CB	2.24	0.65
11:AK:117:GLY:O	11:AK:119:LEU:HD22	1.96	0.65
12:AL:105:ASP:O	12:AL:106:ALA:HB3	1.96	0.65
12:AL:47:LEU:HD11	12:AL:56:LEU:HD12	1.78	0.65
14:AN:65:ALA:HB1	14:AN:98:LEU:HD23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:50:GLU:O	16:AP:54:VAL:HG23	1.96	0.65
16:AP:81:LEU:HD22	16:AP:82:MET:H	1.60	0.65
1:AA:377:G:OP1	19:AS:5:ARG:NH1	2.28	0.65
21:AU:36:ASN:OD1	21:AU:39:VAL:HB	1.96	0.65
51:B3:56:VAL:HG12	51:B3:61:ARG:HG2	1.77	0.65
51:B3:57:GLU:C	51:B3:61:ARG:HG3	2.16	0.65
53:B5:17:LYS:HZ2	53:B5:50:ARG:HB2	1.59	0.65
55:B7:49:VAL:O	55:B7:53:PRO:CG	2.43	0.65
25:BA:1131:G:H2'	25:BA:2026:C:OP1	1.96	0.65
25:BA:1168:G:C6	25:BA:1169:G:C6	2.84	0.65
25:BA:1179:C:H2'	25:BA:1180:C:H6	1.59	0.65
25:BA:1224:G:H2'	43:BU:87:HIS:CD2	2.30	0.65
25:BA:1303:G:C8	25:BA:1304:C:C4	2.85	0.65
25:BA:1345:C:O4'	25:BA:1396:U:C5	2.49	0.65
25:BA:1446:C:H2'	25:BA:1447:G:H8	1.60	0.65
25:BA:1472:A:O2'	25:BA:1473:G:H8	1.79	0.65
25:BA:1483:G:C1'	25:BA:1507:A:C2	2.79	0.65
25:BA:1544:C:O2'	25:BA:1545:A:C4'	2.44	0.65
25:BA:1558:A:H2	25:BA:1560:G:O4'	1.78	0.65
25:BA:1594:G:N2	25:BA:1595:G:H1'	2.11	0.65
25:BA:1822:G:N3	25:BA:1823:G:C8	2.64	0.65
25:BA:1882:C:C2'	25:BA:1883:G:H5'	2.26	0.65
25:BA:205:G:O2'	25:BA:206:U:OP2	2.13	0.65
25:BA:2227:A:OP1	28:BD:260:ARG:HD3	1.96	0.65
25:BA:1863:G:H4'	25:BA:2411:A:H4'	1.78	0.65
25:BA:2731:G:H4'	29:BE:168:MET:CE	2.27	0.65
25:BA:2776:A:H5"	25:BA:2777:G:OP1	1.95	0.65
25:BA:2876:G:OP1	41:BS:2:ASN:HB3	1.96	0.65
25:BA:38:A:H1'	30:BF:48:THR:CB	2.22	0.65
25:BA:399:G:C6	25:BA:400:G:H1'	2.31	0.65
25:BA:454:A:O2'	25:BA:455:C:C4	2.49	0.65
25:BA:90:U:H4'	25:BA:91:A:O5'	1.95	0.65
25:BA:976:C:O2	25:BA:977:G:C8	2.48	0.65
25:BA:988:A:H4'	25:BA:1155:A:C2	2.26	0.65
27:BC:77:ILE:HG22	27:BC:119:VAL:HG21	1.77	0.65
29:BE:104:VAL:CG1	29:BE:105:THR:N	2.58	0.65
29:BE:101:ARG:CD	29:BE:170:LEU:O	2.44	0.65
29:BE:197:ILE:HG22	29:BE:198:VAL:H	1.59	0.65
30:BF:7:TYR:CE2	30:BF:119:ARG:HB3	2.31	0.65
30:BF:157:VAL:HG23	30:BF:194:MET:CB	2.08	0.65
31:BG:120:LEU:HA	31:BG:180:PHE:HB3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:49:ASP:CA	31:BG:53:LEU:HD13	2.26	0.65
36:BN:63:VAL:HG12	36:BN:78:ARG:CD	2.26	0.65
38:BP:28:ALA:CA	38:BP:104:PHE:HD2	2.09	0.65
41:BS:72:VAL:HG12	41:BS:73:GLU:N	2.11	0.65
42:BT:106:PHE:O	42:BT:107:ALA:C	2.34	0.65
25:BA:2013:A:OP1	44:BV:96:ILE:HA	1.96	0.65
46:BX:96:ILE:N	46:BX:96:ILE:CD1	2.60	0.65
47:BY:23:LYS:NZ	47:BY:38:TYR:O	2.29	0.65
47:BY:4:ARG:HG3	47:BY:44:PHE:CZ	2.31	0.65
47:BY:78:LYS:NZ	47:BY:78:LYS:HB3	2.12	0.65
34:BL:23:VAL:CG1	34:BL:34:ILE:HA	2.25	0.65
5:AE:35:GLU:O	5:AE:36:ARG:HD2	1.95	0.65
1:AA:210:U:H4'	1:AA:216:G:OP1	1.96	0.65
4:A1:2:G:H2'	4:A1:3:C:O4'	1.96	0.65
1:AA:865:A:H5'	1:AA:1078:U:O4	1.96	0.65
1:AA:1113:C:O2'	1:AA:1114:C:H5'	1.96	0.65
1:AA:1228:C:H4'	16:AP:115:LYS:O	1.96	0.65
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.09	0.65
1:AA:764:C:N4	1:AA:765:G:O6	2.30	0.65
1:AA:831:U:H2'	1:AA:832:C:H6	1.61	0.65
6:AF:112:SER:CB	6:AF:115:LEU:HB2	2.26	0.65
6:AF:52:LEU:HA	6:AF:70:VAL:HG13	1.77	0.65
7:AG:129:ASN:OD1	7:AG:145:GLU:HG3	1.95	0.65
10:AJ:80:VAL:O	10:AJ:82:GLY:N	2.27	0.65
11:AK:25:ASP:OD1	11:AK:60:ARG:HD3	1.96	0.65
12:AL:51:ARG:CZ	12:AL:51:ARG:HB2	2.26	0.65
16:AP:99:ARG:HH11	16:AP:99:ARG:HG3	1.61	0.65
13:AM:49:VAL:HG13	17:AQ:41:ARG:CD	2.27	0.65
18:AR:16:ALA:HA	18:AR:21:ASP:OD1	1.96	0.65
19:AS:6:LEU:CG	19:AS:17:TYR:CD2	2.79	0.65
49:B1:1:MET:H1	49:B1:2:ARG:HH12	1.43	0.65
25:BA:1178:C:H2'	25:BA:1179:C:C6	2.32	0.65
25:BA:1275:A:H62	25:BA:1296:G:C4'	2.09	0.65
25:BA:1449:A:H2'	25:BA:1449(A):G:O5'	1.96	0.65
25:BA:1681:G:N2	25:BA:1762:A:C3'	2.56	0.65
25:BA:1909:C:O2'	25:BA:1910:G:H5'	1.97	0.65
25:BA:1982:C:C2	25:BA:1983:C:C5	2.84	0.65
25:BA:2077:A:C4	25:BA:2435:A:C8	2.85	0.65
25:BA:2225:A:C5'	25:BA:2226:C:O4'	2.44	0.65
25:BA:2249:U:O4	25:BA:2253:G:OP2	2.13	0.65
25:BA:2349:G:H3'	25:BA:2350:C:H5''	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2399:G:N2	25:BA:2400:G:H1'	2.10	0.65
25:BA:242:G:H2'	25:BA:254:G:C6	2.31	0.65
25:BA:2599:G:H2'	25:BA:2600:A:C8	2.31	0.65
25:BA:747:U:C2	25:BA:2613:U:O4	2.49	0.65
25:BA:2824:C:N4	25:BA:2825:C:O2	2.29	0.65
25:BA:292:C:C2'	25:BA:293:U:N3	2.58	0.65
25:BA:319:C:C4	25:BA:320:A:N7	2.64	0.65
25:BA:397:G:OP1	51:B3:41:PRO:CG	2.44	0.65
25:BA:500:G:O2'	25:BA:502:A:N7	2.28	0.65
25:BA:548:A:H61	25:BA:549:G:H21	1.43	0.65
25:BA:650:C:O2	25:BA:651:G:H5'	1.97	0.65
25:BA:688:U:OP1	54:B6:2:LYS:HD3	1.96	0.65
25:BA:735:A:N7	25:BA:736:C:C5	2.64	0.65
25:BA:919:G:N2	25:BA:2268:A:C5'	2.59	0.65
25:BA:954:G:N2	25:BA:964:C:C1'	2.59	0.65
25:BA:976:C:O2	25:BA:977:G:H8	1.80	0.65
26:BB:58:A:H62	26:BB:59:A:N6	1.95	0.65
25:BA:1567:A:N1	28:BD:85:ASP:N	2.44	0.65
29:BE:105:THR:OG1	29:BE:106:GLY:N	2.28	0.65
30:BF:64:ILE:CD1	30:BF:65:TRP:N	2.57	0.65
31:BG:57:ALA:HA	31:BG:67:LYS:C	2.17	0.65
32:BH:7:LEU:CA	32:BH:52:VAL:HG13	2.24	0.65
33:BK:1:MET:HG2	33:BK:26:ALA:CB	2.25	0.65
33:BK:2:LYS:CD	33:BK:39:ALA:HB2	2.26	0.65
35:BM:23:LEU:HD11	35:BM:62:VAL:HG13	1.78	0.65
38:BP:42:ILE:HG23	38:BP:42:ILE:O	1.96	0.65
25:BA:2839:G:O2'	39:BQ:92:GLY:HA3	1.96	0.65
41:BS:50:ILE:CG2	41:BS:68:TYR:CB	2.72	0.65
42:BT:37:GLU:HA	42:BT:40:PHE:CD1	2.32	0.65
43:BU:1:MET:HE3	43:BU:45:THR:HG23	1.78	0.65
44:BV:28:SER:OG	44:BV:29:LEU:N	2.29	0.65
44:BV:29:LEU:O	44:BV:33:ARG:HB2	1.97	0.65
44:BV:66:GLU:HA	44:BV:69:LEU:HD13	1.79	0.65
45:BW:9:LEU:N	45:BW:9:LEU:HD12	2.11	0.65
46:BX:47:LYS:O	46:BX:48:ALA:HB3	1.96	0.65
46:BX:41:GLY:HA3	46:BX:61:ILE:O	1.96	0.65
25:BA:85:G:OP1	46:BX:8:LYS:HB3	1.95	0.65
47:BY:35:ARG:HG2	47:BY:37:VAL:HG22	1.77	0.65
47:BY:43:GLU:HA	47:BY:46:LYS:HD2	1.77	0.65
48:BZ:40:GLN:O	48:BZ:57:PHE:HB3	1.97	0.65
33:BK:81:VAL:HG12	33:BK:88:ILE:HG12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1200:C:H5''	1:AA:1201:A:H3'	1.77	0.65
1:AA:173:U:H1'	1:AA:197:A:N3	1.91	0.65
1:AA:440:A:N6	1:AA:494:U:C5	2.59	0.65
1:AA:51:A:N1	1:AA:116:A:C4	2.64	0.65
1:AA:958:A:O2'	1:AA:959:A:H5'	1.96	0.65
1:AA:978:A:C6	1:AA:1318:A:N6	2.64	0.65
2:AC:62:C:C2'	2:AC:63:G:O5'	2.44	0.65
3:AD:17:U:O4	3:AD:19:G:N7	2.29	0.65
5:AE:95:GLN:NE2	5:AE:148:TYR:HA	2.12	0.65
5:AE:173:ALA:HA	5:AE:176:GLU:HB2	1.79	0.65
5:AE:61:LEU:HA	5:AE:64:ARG:HD3	1.78	0.65
6:AF:132:ARG:HG2	6:AF:136:GLN:NE2	2.12	0.65
6:AF:188:LEU:HD11	6:AF:190:ARG:HD2	1.78	0.65
6:AF:19:GLU:HG3	6:AF:54:ARG:NE	2.11	0.65
7:AG:188:LEU:C	7:AG:189:PRO:O	2.32	0.65
7:AG:75:PHE:CE1	7:AG:93:PHE:HZ	2.14	0.65
8:AH:78:HIS:CE1	8:AH:142:LEU:HA	2.31	0.65
9:AI:23:LYS:HZ2	9:AI:59:TYR:HE2	1.45	0.65
13:AM:49:VAL:HG11	17:AQ:45:ARG:HD2	1.79	0.65
13:AM:79:ARG:HD3	13:AM:79:ARG:C	2.16	0.65
18:AR:36:ILE:HD12	18:AR:63:ARG:HD3	1.79	0.65
21:AU:58:LEU:HB3	21:AU:62:GLU:CG	2.26	0.65
22:AV:11:VAL:HG22	22:AV:39:THR:HB	1.77	0.65
49:B1:48:LEU:O	49:B1:52:ILE:HG13	1.95	0.65
53:B5:13:CYS:O	53:B5:53:LYS:HB3	1.96	0.65
54:B6:5:TRP:CZ2	54:B6:7:PRO:HB3	2.31	0.65
25:BA:1199:U:O2	25:BA:1200:C:C6	2.48	0.65
25:BA:1312:U:C2'	25:BA:1313:U:O4'	2.42	0.65
25:BA:1345:C:C4'	25:BA:1396:U:O4	2.43	0.65
25:BA:1783:A:C2	25:BA:2587:A:C2	2.84	0.65
25:BA:1784:A:H8	25:BA:1981:A:C8	2.14	0.65
25:BA:2238:G:O2'	25:BA:2239:G:C5'	2.44	0.65
25:BA:2313:C:H2'	25:BA:2314:C:H6	1.60	0.65
25:BA:2690:C:C5	39:BQ:14:SER:HB2	2.31	0.65
25:BA:2697:G:O2'	25:BA:2698:U:H5'	1.96	0.65
25:BA:282:A:H3'	25:BA:282:A:C8	2.31	0.65
25:BA:2893:G:OP2	25:BA:2893:G:H8	1.79	0.65
25:BA:324:A:N7	25:BA:340:A:N3	2.44	0.65
25:BA:458:G:H5''	54:B6:39:ARG:NE	2.12	0.65
25:BA:452:G:N1	25:BA:458:G:N1	2.45	0.65
25:BA:704:G:O2'	25:BA:705:A:OP2	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:765:G:C6	25:BA:766:C:C4	2.84	0.65
25:BA:76:C:C6	25:BA:76:C:O5'	2.49	0.65
25:BA:780:G:H2'	25:BA:782:A:C8	2.31	0.65
25:BA:860:U:H1'	25:BA:2267:A:H5''	1.78	0.65
25:BA:941:A:N3	25:BA:941:A:H2'	2.09	0.65
25:BA:962:G:N3	25:BA:963:U:C6	2.65	0.65
26:BB:32:C:H3'	26:BB:33:G:C8	2.28	0.65
28:BD:198:ASN:CG	28:BD:201:HIS:HB3	2.15	0.65
28:BD:9:TYR:CE2	28:BD:25:THR:HG21	2.31	0.65
28:BD:5:LYS:NZ	28:BD:31:LYS:HZ2	1.94	0.65
29:BE:196:VAL:CG1	29:BE:197:ILE:H	2.09	0.65
29:BE:13:ARG:NH1	29:BE:20:ALA:HB1	2.11	0.65
29:BE:45:THR:OG1	29:BE:46:ALA:N	2.30	0.65
29:BE:66:HIS:CD2	29:BE:70:ALA:HA	2.31	0.65
32:BH:170:ARG:C	32:BH:171:LEU:HD12	2.17	0.65
32:BH:35:VAL:HG12	32:BH:71:LEU:HD23	1.77	0.65
35:BM:38:HIS:C	35:BM:42:TRP:CE3	2.69	0.65
36:BN:97:ARG:HG2	36:BN:117:LEU:CG	2.26	0.65
41:BS:2:ASN:OD1	41:BS:3:ARG:N	2.24	0.65
42:BT:11:ARG:HG2	42:BT:12:ARG:N	2.10	0.65
43:BU:40:LEU:C	43:BU:51:VAL:HG22	2.17	0.65
44:BV:23:LEU:HD22	44:BV:35:ILE:CD1	2.27	0.65
44:BV:95:ILE:N	44:BV:95:ILE:HD12	2.04	0.65
48:BZ:21:LEU:O	48:BZ:24:LYS:HE3	1.95	0.65
25:BA:1077:A:H2'	25:BA:1078:U:O4'	1.96	0.65
2:AC:26:G:H2'	2:AC:26:G:N3	2.11	0.65
27:BC:148:ASN:ND2	27:BC:152:ILE:HG13	2.12	0.65
25:BA:2241:A:H2'	25:BA:2242:G:C8	2.31	0.65
1:AA:124:G:H2'	1:AA:125:U:O4'	1.96	0.65
1:AA:1280:A:C5'	13:AM:40:LEU:HD22	2.26	0.65
1:AA:135:C:H6	1:AA:135:C:O5'	1.80	0.65
1:AA:284:G:H2'	1:AA:285:G:O4'	1.96	0.65
1:AA:44:G:C6	1:AA:399:G:C6	2.85	0.65
1:AA:642:A:O2'	11:AK:31:PHE:HE1	1.78	0.65
1:AA:7:G:H21	8:AH:121:LYS:HB2	1.61	0.65
1:AA:952:U:O2'	1:AA:965:A:N6	2.29	0.65
2:AC:5:G:H2'	2:AC:6:G:O5'	1.96	0.65
3:AD:8:U:H3	3:AD:14:A:N6	1.94	0.65
3:AD:18:G:N3	3:AD:58:A:O4'	2.29	0.65
5:AE:102:LEU:HD12	5:AE:102:LEU:N	2.06	0.65
5:AE:139:LYS:HG3	5:AE:140:HIS:N	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:48:TYR:C	6:AF:48:TYR:HD2	1.99	0.65
7:AG:75:PHE:HE1	7:AG:93:PHE:CZ	2.15	0.65
8:AH:144:THR:C	8:AH:146:ALA:N	2.48	0.65
8:AH:72:GLN:HE22	8:AH:145:LYS:H	1.42	0.65
8:AH:43:LEU:H	8:AH:65:ASN:HD22	1.45	0.65
9:AI:45:LEU:O	9:AI:46:ARG:HB2	1.96	0.65
10:AJ:85:TYR:HD1	10:AJ:154:TYR:CE1	2.15	0.65
11:AK:102:ARG:HE	11:AK:105:ARG:HH11	1.42	0.65
16:AP:15:VAL:CG1	16:AP:39:ILE:HD12	2.27	0.65
19:AS:39:TYR:HE1	19:AS:41:PRO:CA	2.09	0.65
1:AA:277:C:H5''	20:AT:68:ARG:HH22	1.62	0.65
20:AT:84:LEU:CD2	20:AT:84:LEU:H	1.92	0.65
49:B1:51:GLN:CA	49:B1:54:ARG:HD2	2.20	0.65
50:B2:39:ASP:OD2	50:B2:44:ARG:HD3	1.97	0.65
51:B3:44:THR:HG23	51:B3:45:GLY:H	1.61	0.65
52:B4:8:LYS:C	52:B4:9:LYS:HG3	2.17	0.65
25:BA:594:U:OP1	55:B7:61:LEU:HD22	1.96	0.65
56:B8:17:ILE:CD1	56:B8:26:ILE:HD12	2.26	0.65
25:BA:1287:A:C2	25:BA:1288:U:C2	2.85	0.65
25:BA:136:G:H2'	25:BA:137:C:C6	2.31	0.65
25:BA:1531:C:H2'	25:BA:1532:C:H5	1.61	0.65
25:BA:1609:A:C5	25:BA:1616:A:N3	2.63	0.65
25:BA:1683:C:C2	25:BA:1684:C:C5	2.84	0.65
25:BA:1827:C:H2'	25:BA:1828:G:C5'	2.27	0.65
25:BA:2033:A:O2'	25:BA:2034:U:P	2.54	0.65
25:BA:2103:C:H2'	25:BA:2104:G:C8	2.26	0.65
25:BA:2168:G:C2	25:BA:2170:A:H3'	2.30	0.65
25:BA:2712:U:O2'	25:BA:2712(A):A:O5'	2.13	0.65
25:BA:1759:A:H5'	25:BA:2715:C:H1'	1.77	0.65
25:BA:2787:C:H5''	29:BE:64:LYS:CG	2.26	0.65
25:BA:322:A:O2'	25:BA:340:A:C6	2.49	0.65
25:BA:372:G:C8	25:BA:372:G:C3'	2.74	0.65
25:BA:608:A:C2'	25:BA:609:A:H5'	2.26	0.65
25:BA:67:U:O5'	25:BA:67:U:H6	1.78	0.65
25:BA:687:C:H5''	54:B6:4:THR:HB	1.78	0.65
26:BB:75:G:O6	26:BB:76:G:N2	2.29	0.65
26:BB:76:G:O4'	47:BY:85:HIS:ND1	2.24	0.65
27:BC:123:VAL:HG11	27:BC:138:PRO:HG2	1.78	0.65
27:BC:7:TYR:CD2	27:BC:11:LEU:HB2	2.31	0.65
28:BD:76:PRO:CA	28:BD:118:VAL:HG22	2.26	0.65
28:BD:161:THR:HG23	28:BD:196:VAL:CB	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:23:GLU:OE1	28:BD:204:ILE:HA	1.95	0.65
29:BE:64:LYS:CA	29:BE:67:PHE:HB2	2.26	0.65
29:BE:6:GLY:HA2	29:BE:195:LEU:HD22	1.78	0.65
29:BE:71:GLY:O	29:BE:72:VAL:HG13	1.97	0.65
32:BH:118:PRO:N	32:BH:121:ILE:HG21	2.11	0.65
32:BH:56:SER:HB3	32:BH:61:HIS:ND1	2.12	0.65
35:BM:70:LYS:HZ1	35:BM:86:PRO:HB3	1.58	0.65
36:BN:68:GLU:HA	36:BN:104:ARG:CZ	2.25	0.65
36:BN:97:ARG:HD3	36:BN:118:ALA:HB3	1.78	0.65
36:BN:18:LYS:HZ3	36:BN:44:LYS:CD	2.09	0.65
36:BN:2:ILE:CD1	36:BN:32:TYR:CD1	2.75	0.65
36:BN:39:ILE:CG1	36:BN:59:LYS:HE3	2.26	0.65
36:BN:67:LYS:HZ1	36:BN:77:ILE:HG21	1.62	0.65
37:BO:88:LEU:HD23	37:BO:88:LEU:O	1.96	0.65
38:BP:37:LEU:C	38:BP:39:PRO:HD3	2.16	0.65
41:BS:30:VAL:CB	41:BS:90:GLN:HA	2.26	0.65
45:BW:47:PHE:CZ	45:BW:92:LEU:HD21	2.32	0.65
48:BZ:19:LYS:HZ3	48:BZ:41:ARG:NE	1.93	0.65
48:BZ:51:VAL:HG11	48:BZ:79:VAL:HG23	1.78	0.65
34:BL:66:THR:O	34:BL:67:PHE:CB	2.45	0.65
25:BA:1059:G:O2'	34:BL:74:ALA:HB2	1.96	0.65
1:AA:80:G:H3'	1:AA:81:G:C8	2.30	0.65
1:AA:92:G:C2	1:AA:93:U:C2	2.84	0.65
1:AA:92:G:H2'	1:AA:93:U:O4'	1.97	0.65
11:AK:50:ARG:N	11:AK:50:ARG:HD3	2.11	0.65
1:AA:1272:G:H2'	1:AA:1273:G:C8	2.30	0.65
1:AA:1308:U:H3'	16:AP:99:ARG:CZ	2.26	0.65
1:AA:277:C:H5''	20:AT:68:ARG:NH2	2.12	0.65
1:AA:322:C:O2'	1:AA:323:U:H5'	1.97	0.65
1:AA:412:A:OP2	1:AA:412:A:H4'	1.95	0.65
1:AA:453:A:C4'	19:AS:72:ARG:HG3	2.27	0.65
1:AA:468:A:O3'	19:AS:81:ARG:HA	1.95	0.65
1:AA:518:C:H2'	1:AA:530:G:C8	2.32	0.65
1:AA:532:A:C2'	1:AA:533:A:OP1	2.44	0.65
1:AA:946:A:N3	1:AA:947:G:N7	2.44	0.65
1:AA:953:G:N7	16:AP:104:ARG:NH2	2.44	0.65
1:AA:968:A:OP1	1:AA:968:A:H8	1.79	0.65
5:AE:169:LYS:HZ2	5:AE:170:GLU:HA	1.60	0.65
5:AE:217:ARG:O	5:AE:220:ASP:HB2	1.96	0.65
5:AE:59:GLU:HB3	5:AE:221:LEU:HD11	1.78	0.65
1:AA:401:C:P	7:AG:73:ARG:NH1	2.70	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:56:GLN:CD	10:AJ:56:GLN:H	2.00	0.65
11:AK:4:ASP:HB2	11:AK:6:ILE:CG2	2.26	0.65
12:AL:49:PRO:CG	12:AL:81:ILE:HB	2.27	0.65
16:AP:23:TYR:CD2	16:AP:70:LEU:HD13	2.32	0.65
19:AS:14:ASN:OD1	19:AS:14:ASN:O	2.14	0.65
24:AX:5:ASP:O	24:AX:7:ARG:N	2.30	0.65
53:B5:13:CYS:HB3	53:B5:23:THR:HA	1.78	0.65
25:BA:1033:U:C4	25:BA:2750:A:H1'	2.32	0.65
25:BA:1191:G:H3'	25:BA:1191:G:C8	2.31	0.65
25:BA:1352:U:O2	25:BA:1352:U:C2'	2.45	0.65
25:BA:1351:C:O2	25:BA:1352:U:H6	1.79	0.65
25:BA:138:G:N2	25:BA:140:A:N7	2.43	0.65
25:BA:143:C:C2	25:BA:144:C:C5	2.84	0.65
25:BA:1511:A:H8	25:BA:1512:G:H5''	1.62	0.65
25:BA:1515:C:H1'	25:BA:1557:C:H4'	1.77	0.65
25:BA:1591:G:H2'	25:BA:1592:C:C6	2.31	0.65
25:BA:1704:G:C6	25:BA:1705:G:C8	2.84	0.65
25:BA:1718:G:O6	25:BA:1735:C:N4	2.29	0.65
25:BA:1783:A:H8	25:BA:1783:A:OP2	1.80	0.65
25:BA:18:C:O2	25:BA:553:U:H5''	1.97	0.65
25:BA:2166:G:H2'	25:BA:2167:U:H6	1.61	0.65
25:BA:2249:U:O2'	25:BA:2250:G:P	2.55	0.65
25:BA:2320:A:H5'	25:BA:2321:G:N7	2.12	0.65
25:BA:2345:G:H21	25:BA:2381:C:H2'	1.60	0.65
25:BA:2354:G:O4'	48:BZ:35:ASN:HA	1.95	0.65
25:BA:2419:U:OP1	55:B7:41:ILE:HD12	1.96	0.65
25:BA:2519:U:C6	25:BA:2542:A:C6	2.84	0.65
25:BA:2677:G:O2'	25:BA:2678:C:H5'	1.96	0.65
25:BA:28:A:HO2'	25:BA:582:G:HO2'	1.44	0.65
25:BA:516:C:H5''	52:B4:13:LYS:NZ	2.12	0.65
25:BA:627:A:H2'	25:BA:628:G:C8	2.31	0.65
25:BA:749:C:O2'	25:BA:1617:C:O2'	2.13	0.65
25:BA:833:U:H2'	25:BA:834:C:H6	1.61	0.65
25:BA:869:G:H3'	25:BA:870:A:H5''	1.77	0.65
25:BA:930:U:H1'	25:BA:932:G:C6	2.32	0.65
26:BB:43:C:H2'	26:BB:44:G:H5'	1.79	0.65
26:BB:47:C:C2'	26:BB:48:A:H5'	2.24	0.65
27:BC:22:ILE:HD13	27:BC:190:ARG:CZ	2.27	0.65
27:BC:10:LEU:HD11	27:BC:32:LEU:HB3	1.79	0.65
28:BD:36:PRO:HG2	28:BD:104:TYR:HE2	1.62	0.65
28:BD:159:ALA:CB	28:BD:202:LYS:HZ1	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:174:ILE:N	28:BD:174:ILE:HD12	2.11	0.65
29:BE:113:PHE:CD1	29:BE:113:PHE:N	2.64	0.65
29:BE:119:ARG:HG3	29:BE:160:TYR:CZ	2.30	0.65
30:BF:125:LEU:HD13	30:BF:128:ALA:HB2	1.77	0.65
35:BM:104:LYS:HB3	35:BM:117:PHE:CZ	2.31	0.65
35:BM:25:ARG:HA	35:BM:28:THR:HG23	1.77	0.65
35:BM:55:VAL:HG13	35:BM:126:PRO:O	1.97	0.65
36:BN:24:VAL:HG22	36:BN:30:ALA:CB	2.26	0.65
38:BP:59:ARG:NH2	38:BP:62:GLY:N	2.44	0.65
42:BT:65:ILE:O	42:BT:66:ASN:C	2.35	0.65
44:BV:7:ALA:O	44:BV:102:HIS:HA	1.96	0.65
45:BW:89:ILE:C	45:BW:92:LEU:HD13	2.17	0.65
46:BX:65:ALA:CB	46:BX:66:PRO:CD	2.73	0.65
25:BA:188:G:H2'	25:BA:189:G:O4'	1.96	0.65
32:BH:18:GLU:OE2	32:BH:25:LYS:HB3	1.96	0.65
1:AA:562:C:O2'	15:AO:15:ARG:CD	2.44	0.65
1:AA:1320:C:C5	22:AV:37:ARG:CZ	2.80	0.65
1:AA:1337:G:H5''	1:AA:1338:G:OP1	1.96	0.65
1:AA:1416:G:H2'	1:AA:1417:G:C8	2.31	0.65
1:AA:1451:A:H5''	1:AA:1452:C:H41	1.61	0.65
1:AA:1475:G:O2'	1:AA:1476:G:H5'	1.97	0.65
1:AA:219:C:C3'	1:AA:219:C:C6	2.79	0.65
1:AA:340:U:O2'	1:AA:341:C:O4'	2.11	0.65
1:AA:377:G:H2'	1:AA:378:G:H8	1.61	0.65
1:AA:401:C:O2'	1:AA:402:G:H5'	1.96	0.65
1:AA:528:C:O4'	1:AA:535:A:C6	2.50	0.65
1:AA:627:G:H2'	1:AA:628:G:H8	1.61	0.65
1:AA:595:G:N7	1:AA:641:U:C4	2.64	0.65
1:AA:983:A:H3'	1:AA:983:A:N3	2.12	0.65
2:AC:19:G:H21	31:BG:82:LEU:HD12	1.62	0.65
5:AE:67:THR:CB	5:AE:155:LEU:HD21	2.22	0.65
5:AE:76:GLN:O	5:AE:211:ILE:HD12	1.97	0.65
5:AE:91:PRO:HG3	5:AE:155:LEU:N	2.05	0.65
6:AF:179:ARG:NE	6:AF:206:GLU:OE1	2.29	0.65
1:AA:412:A:N3	7:AG:35:ARG:CZ	2.60	0.65
1:AA:1379:G:N7	10:AJ:2:ALA:N	2.45	0.65
11:AK:11:THR:HA	11:AK:14:ARG:NE	2.10	0.65
12:AL:19:LEU:HD13	12:AL:59:PHE:CD2	2.32	0.65
12:AL:5:TYR:O	12:AL:84:ALA:HA	1.97	0.65
13:AM:39:PRO:HB3	13:AM:70:ARG:HH12	1.58	0.65
15:AO:38:THR:HG23	15:AO:39:VAL:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:529:G:C6	15:AO:49:ASN:CG	2.70	0.65
20:AT:55:ASP:HB3	20:AT:57:VAL:HG12	1.78	0.65
21:AU:78:LEU:C	21:AU:79:LEU:HD12	2.17	0.65
50:B2:54:VAL:CG2	50:B2:55:ARG:N	2.59	0.65
51:B3:21:VAL:HG12	51:B3:22:ILE:N	2.12	0.65
51:B3:38:LYS:HE2	51:B3:40:HIS:HB2	1.78	0.65
51:B3:5:ILE:CG2	51:B3:57:GLU:HB2	2.11	0.65
25:BA:2742:C:H5''	56:B8:35:ARG:HH11	1.62	0.65
25:BA:1027:A:H61	25:BA:1126:A:H1'	1.62	0.65
25:BA:1128:A:O2'	25:BA:1129:A:P	2.54	0.65
25:BA:1287:A:OP1	39:BQ:105:ARG:HB2	1.96	0.65
25:BA:1514:U:H2'	25:BA:1514:U:O2	1.95	0.65
25:BA:1580:A:H2'	25:BA:1581:G:C8	2.31	0.65
25:BA:1659:U:O2'	25:BA:1660:C:H5'	1.97	0.65
25:BA:1735:C:N4	25:BA:1741:C:N4	2.45	0.65
25:BA:1773:A:C2	25:BA:1977:A:N6	2.64	0.65
25:BA:1773:A:C5	25:BA:1774:C:O2	2.50	0.65
25:BA:1363:C:O2'	25:BA:1809:A:N7	2.29	0.65
25:BA:1817:G:C2'	25:BA:1818:U:H5'	2.25	0.65
25:BA:1915:U:C6	25:BA:1915:U:OP2	2.50	0.65
25:BA:1947:C:N3	25:BA:1948:G:N7	2.45	0.65
25:BA:1995:U:H5'	25:BA:1996:C:H5'	1.79	0.65
25:BA:2020:A:N7	25:BA:2022:U:C4	2.64	0.65
25:BA:2051:A:C2	25:BA:2614:A:C6	2.84	0.65
25:BA:197:A:O4'	25:BA:2068:U:C2	2.50	0.65
25:BA:2097:C:O2'	25:BA:2098:U:H5'	1.96	0.65
25:BA:2121:G:O2'	27:BC:167:LYS:HG2	1.96	0.65
25:BA:2227:A:N6	25:BA:2228:G:N7	2.44	0.65
25:BA:2371:G:N2	25:BA:2372:G:C5	2.64	0.65
25:BA:2417:C:N4	25:BA:2418:A:H62	1.95	0.65
25:BA:2491:U:C5	25:BA:2492:U:H3'	2.32	0.65
25:BA:266:G:C8	25:BA:266:G:H3'	2.31	0.65
25:BA:2856:C:H2'	25:BA:2857:G:O5'	1.96	0.65
25:BA:410:G:H2'	25:BA:411:G:H8	1.55	0.65
25:BA:33:U:C5	25:BA:446:G:N2	2.65	0.65
25:BA:464:U:H1'	25:BA:788:A:C6	2.32	0.65
25:BA:49:A:H1'	25:BA:118:A:H61	1.59	0.65
25:BA:576:U:H2'	25:BA:577:G:H8	1.61	0.65
25:BA:593:G:C6	25:BA:594:U:C4	2.84	0.65
25:BA:640:C:C2'	25:BA:641:C:H5'	2.26	0.65
25:BA:736:C:O2'	25:BA:737:C:H5'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:740:U:H4'	25:BA:1784:A:O5'	1.97	0.65
25:BA:980:A:N3	25:BA:2037:G:O2'	2.23	0.65
27:BC:108:MET:SD	27:BC:136:LEU:HD22	2.36	0.65
25:BA:2178:C:H5''	27:BC:46:LYS:HG2	1.78	0.65
28:BD:96:HIS:CD2	28:BD:102:LYS:HE2	2.32	0.65
28:BD:76:PRO:HB3	28:BD:118:VAL:CG2	2.27	0.65
28:BD:29:PRO:CB	28:BD:82:ILE:O	2.45	0.65
28:BD:70:TRP:HE3	28:BD:73:VAL:HG12	1.62	0.65
29:BE:45:THR:OG1	29:BE:83:ASP:HB2	1.97	0.65
35:BM:55:VAL:HG22	35:BM:129:PRO:CG	2.26	0.65
25:BA:1664:A:H4'	36:BN:66:LYS:NZ	2.11	0.65
25:BA:1999:C:H5''	39:BQ:2:ARG:HG3	1.78	0.65
41:BS:62:THR:HG22	41:BS:79:HIS:HA	1.79	0.65
41:BS:15:VAL:HG13	41:BS:81:PRO:HB3	1.78	0.65
42:BT:111:GLU:HA	42:BT:114:LYS:CE	2.27	0.65
43:BU:11:GLN:HE22	43:BU:24:LYS:HZ3	1.38	0.65
45:BW:79:ALA:C	45:BW:80:ILE:HD13	2.17	0.65
46:BX:36:ALA:HA	46:BX:64:GLU:HB2	1.79	0.65
47:BY:4:ARG:CG	47:BY:38:TYR:O	2.45	0.65
34:BL:10:LEU:N	34:BL:10:LEU:HD23	2.11	0.65
1:AA:1058:G:H2'	1:AA:1059:C:H6	1.62	0.65
1:AA:109:A:O2'	1:AA:110:C:P	2.55	0.65
1:AA:1209:C:C2'	1:AA:1210:C:H5'	2.26	0.65
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.31	0.65
1:AA:1396:A:C2'	1:AA:1397:C:OP2	2.44	0.65
1:AA:1403:C:HO2'	1:AA:1404:C:H6	1.43	0.65
1:AA:1424:C:O2'	1:AA:1425:U:H5'	1.97	0.65
1:AA:1408:A:N3	1:AA:1495:U:C5	2.65	0.65
1:AA:198:G:OP2	1:AA:198:G:H8	1.79	0.65
1:AA:112:G:H5'	1:AA:389:A:H4'	1.77	0.65
1:AA:533:A:C6	1:AA:536:C:N4	2.65	0.65
1:AA:601:C:H2'	1:AA:602:A:H8	1.62	0.65
1:AA:755:G:OP2	18:AR:65:ARG:HG2	1.96	0.65
1:AA:890:G:H2'	1:AA:891:U:OP2	1.95	0.65
1:AA:933:G:OP2	10:AJ:3:ARG:HG3	1.96	0.65
1:AA:991:U:O2'	1:AA:993:G:H1'	1.97	0.65
2:AC:74:C:H2'	2:AC:75:C:C5'	2.16	0.65
5:AE:188:ALA:O	5:AE:189:ASP:HB2	1.95	0.65
8:AH:115:VAL:HG11	8:AH:118:ILE:HD11	1.77	0.65
8:AH:127:ASN:O	8:AH:127:ASN:OD1	2.14	0.65
8:AH:71:LEU:HD21	8:AH:74:GLY:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:116:LYS:HB2	11:AK:119:LEU:HD11	1.78	0.65
11:AK:86:ILE:HB	11:AK:133:LEU:O	1.97	0.65
1:AA:1147:C:O2	12:AL:16:ARG:NH2	2.29	0.65
12:AL:4:TYR:HE1	12:AL:59:PHE:HZ	1.43	0.65
13:AM:5:ARG:HD3	13:AM:6:ILE:N	2.11	0.65
20:AT:82:MET:O	20:AT:85:VAL:N	2.30	0.65
21:AU:17:SER:HB3	21:AU:54:ARG:CZ	2.26	0.65
55:B7:25:MET:CB	55:B7:27:THR:HG22	2.26	0.65
55:B7:30:ARG:HH21	55:B7:43:GLN:C	2.00	0.65
25:BA:1170:G:N2	25:BA:1180:C:N3	2.44	0.65
25:BA:1186:G:H3'	25:BA:1187:G:H8	1.61	0.65
25:BA:1204:A:C2	30:BF:188:ARG:O	2.49	0.65
25:BA:1314:C:C2	25:BA:1315:C:C5	2.84	0.65
25:BA:1324:G:N2	25:BA:1331:A:C4	2.65	0.65
25:BA:1475:G:C2	25:BA:1476:C:C6	2.83	0.65
25:BA:1510:A:C2'	25:BA:1511:A:C2	2.63	0.65
25:BA:1582:C:H3'	25:BA:1583:A:O4'	1.97	0.65
25:BA:1831:G:H2'	25:BA:1832:C:C6	2.31	0.65
25:BA:2058:A:H2'	25:BA:2059:A:H8	1.61	0.65
25:BA:2070:G:C2	25:BA:2071:A:C4	2.84	0.65
25:BA:2251:G:C4	25:BA:2450:A:H1'	2.31	0.65
25:BA:2335:A:H2'	25:BA:2337:G:C8	2.30	0.65
25:BA:2432:A:N7	25:BA:2433:A:C5	2.65	0.65
25:BA:2547:U:C3'	25:BA:2548:G:H5''	2.25	0.65
25:BA:2739:U:C6	25:BA:2739:U:H3'	2.32	0.65
25:BA:284:U:C6	25:BA:284:U:OP2	2.50	0.65
25:BA:2857:G:H2'	25:BA:2858:C:C5'	2.26	0.65
25:BA:495:G:H2'	25:BA:496:G:O5'	1.96	0.65
25:BA:610:C:H42	25:BA:618(A):C:N4	1.95	0.65
25:BA:815:C:C2	25:BA:816:C:C5	2.84	0.65
25:BA:862:G:N2	26:BB:100:G:H1'	2.12	0.65
25:BA:931:G:N3	50:B2:24:LYS:HB3	2.11	0.65
25:BA:941:A:H2	25:BA:942:G:C4	2.15	0.65
27:BC:200:LYS:HG3	27:BC:208:PHE:HD2	1.61	0.65
25:BA:763:G:C5'	28:BD:211:ARG:NH1	2.44	0.65
30:BF:174:VAL:HG11	30:BF:189:THR:CG2	2.23	0.65
31:BG:174:GLU:HG2	31:BG:175:LEU:N	2.12	0.65
31:BG:47:LYS:HD3	31:BG:72:ARG:HB2	1.79	0.65
32:BH:7:LEU:HB2	32:BH:52:VAL:O	1.96	0.65
33:BK:22:LYS:HB3	33:BK:23:PRO:HD2	1.79	0.65
25:BA:270(P):C:C5'	33:BK:45:LYS:HG2	2.20	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:35:ARG:HD3	35:BM:38:HIS:HB3	1.78	0.65
35:BM:74:ARG:NH2	35:BM:78:TYR:HA	2.11	0.65
36:BN:47:ILE:CD1	36:BN:50:GLY:HA3	2.26	0.65
38:BP:109:VAL:HG22	38:BP:113:GLN:HB2	1.79	0.65
47:BY:139:VAL:HG12	47:BY:140:ASP:N	2.12	0.65
48:BZ:60:PHE:H	48:BZ:60:PHE:HD2	1.43	0.65
33:BK:130:TYR:CE1	33:BK:140:LEU:HD11	2.31	0.65
33:BK:66:GLU:HG3	33:BK:69:LYS:HZ3	1.61	0.65
51:B3:71:ARG:O	51:B3:71:ARG:HG2	1.97	0.65
1:AA:1319:A:H4'	22:AV:70:LYS:HE3	1.77	0.65
1:AA:1431:C:H2'	1:AA:1432:G:C5'	2.26	0.65
1:AA:14:U:C6	1:AA:16:A:OP2	2.50	0.65
5:AE:115:LEU:HD21	5:AE:146:GLN:HA	1.79	0.65
6:AF:13:GLY:O	6:AF:14:ILE:HD13	1.97	0.65
7:AG:146:ILE:N	7:AG:146:ILE:HD12	2.12	0.65
7:AG:200:GLU:O	7:AG:204:ILE:HD12	1.95	0.65
7:AG:20:TYR:CA	7:AG:26:CYS:O	2.42	0.65
8:AH:78:HIS:HB3	11:AK:107:LEU:CD2	2.15	0.65
9:AI:5:GLU:HA	9:AI:64:GLN:HA	1.79	0.65
9:AI:2:ARG:O	9:AI:66:GLU:HA	1.97	0.65
10:AJ:100:ALA:O	10:AJ:104:LEU:HG	1.96	0.65
11:AK:138:TRP:OXT	11:AK:138:TRP:CE3	2.49	0.65
1:AA:1228:C:H4'	16:AP:116:THR:HA	1.78	0.65
19:AS:57:ARG:HG2	19:AS:79:VAL:HG12	1.79	0.65
21:AU:61:LYS:O	21:AU:65:ILE:HG12	1.95	0.65
22:AV:40:ILE:HD11	22:AV:71:LEU:HD23	1.78	0.65
23:AW:43:LEU:HD11	23:AW:51:GLU:HG3	1.78	0.65
56:B8:9:ARG:CA	56:B8:34:GLN:HE22	2.09	0.65
25:BA:1149:G:O2'	25:BA:1150:C:H5'	1.97	0.65
25:BA:1171:G:H1	25:BA:1179:C:N4	1.94	0.65
25:BA:1178:C:O2'	25:BA:1179:C:O5'	2.13	0.65
25:BA:1406:U:C2	25:BA:1407:C:C5	2.84	0.65
25:BA:1427:A:O2'	25:BA:1428:C:OP2	2.11	0.65
25:BA:1478:G:C2'	25:BA:1479:G:O4'	2.44	0.65
25:BA:1417:C:N4	25:BA:1581:G:N1	2.45	0.65
25:BA:49:A:C6	25:BA:177:G:C2	2.85	0.65
25:BA:1883:G:C4	25:BA:1884:A:H2	2.14	0.65
25:BA:2218:G:C2	25:BA:2219:G:C8	2.84	0.65
25:BA:2227:A:C1'	28:BD:262:ARG:HD2	2.27	0.65
25:BA:2332:U:OP1	48:BZ:43:THR:HB	1.96	0.65
25:BA:2408:U:C2	25:BA:2409:G:N7	2.65	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2592:G:C5	25:BA:2593:U:C5	2.85	0.65
25:BA:269:U:O2	25:BA:269:U:C2'	2.44	0.65
25:BA:2732:G:H3'	25:BA:2733:A:H5'	1.78	0.65
25:BA:2843:G:N3	25:BA:2844:G:C8	2.65	0.65
25:BA:363(C):G:C2'	25:BA:363(D):G:H5'	2.26	0.65
25:BA:712:G:C2'	25:BA:713:G:H8	1.96	0.65
25:BA:783:A:H3'	25:BA:783:A:H8	1.62	0.65
25:BA:963:U:H2'	25:BA:964:C:C5	2.32	0.65
26:BB:6:C:H5'	26:BB:27:C:C2'	2.26	0.65
26:BB:58:A:N6	26:BB:59:A:N6	2.43	0.65
26:BB:73:A:H2	47:BY:29:TYR:OH	1.78	0.65
27:BC:130:ILE:HG22	27:BC:131:LEU:HD23	1.79	0.65
28:BD:106:ILE:O	28:BD:107:ALA:HB2	1.96	0.65
28:BD:122:ASP:O	28:BD:123:ALA:O	2.15	0.65
25:BA:1790:C:O3'	28:BD:213:ARG:HD3	1.97	0.65
28:BD:217:ARG:HG3	28:BD:218:ARG:N	2.09	0.65
28:BD:265:PRO:O	28:BD:267:SER:N	2.29	0.65
16:AP:3:ARG:HH22	31:BG:139:LEU:HD22	1.61	0.65
31:BG:61:ALA:CB	31:BG:67:LYS:HB3	2.13	0.65
32:BH:124:GLU:N	32:BH:124:GLU:OE1	2.29	0.65
32:BH:54:ARG:HH11	32:BH:57:ASP:CB	2.10	0.65
37:BO:131:SER:O	37:BO:135:LEU:HD13	1.96	0.65
38:BP:39:PRO:HG3	38:BP:127:ILE:HD13	1.79	0.65
39:BQ:74:LYS:HZ3	39:BQ:74:LYS:HB2	1.62	0.65
25:BA:2296:U:C5	40:BR:5:THR:HG23	2.32	0.65
40:BR:68:GLN:HA	40:BR:71:ARG:HD2	1.79	0.65
41:BS:65:LYS:HD3	41:BS:75:ILE:CB	2.27	0.65
42:BT:50:ARG:NH2	43:BU:75:PHE:CD2	2.62	0.65
43:BU:99:ILE:O	43:BU:100:ARG:O	2.15	0.65
44:BV:24:ILE:HD13	44:BV:36:LEU:CD2	2.27	0.65
47:BY:48:PHE:HB3	47:BY:54:HIS:NE2	2.11	0.65
1:AA:1446:A:O2'	1:AA:1447:G:P	2.55	0.65
26:BB:87:G:O2'	26:BB:89:G:C5	2.46	0.65
1:AA:1161:C:C2	1:AA:1162:C:C5	2.84	0.65
1:AA:1200:C:P	1:AA:1200:C:O4'	2.55	0.65
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.12	0.65
1:AA:438:G:H5'	7:AG:123:HIS:ND1	2.12	0.65
1:AA:570:G:C4'	1:AA:820:U:C6	2.78	0.65
1:AA:640:A:H2'	1:AA:641:U:H5'	1.77	0.65
1:AA:900:A:C6	1:AA:901:A:N6	2.65	0.65
1:AA:961:U:C5	1:AA:983:A:C4	2.85	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:69:C:H2'	3:AD:70:G:C8	2.32	0.65
5:AE:115:LEU:CD2	5:AE:149:LEU:HD13	2.27	0.65
9:AI:76:ALA:C	9:AI:80:ARG:HE	2.00	0.65
11:AK:112:LEU:HD21	11:AK:114:THR:CG2	2.26	0.65
11:AK:21:LYS:HA	11:AK:21:LYS:HE2	1.78	0.65
12:AL:111:ARG:HH22	13:AM:62:HIS:HE1	1.44	0.65
1:AA:692:U:O4	14:AN:53:SER:HA	1.96	0.65
16:AP:38:GLY:O	16:AP:39:ILE:HG23	1.97	0.65
18:AR:44:LYS:HE3	18:AR:44:LYS:N	2.12	0.65
19:AS:51:VAL:HG11	19:AS:74:LEU:HD23	1.79	0.65
20:AT:31:LEU:CD1	20:AT:31:LEU:O	2.45	0.65
1:AA:736:C:OP1	21:AU:72:ARG:CZ	2.45	0.65
22:AV:62:ILE:CD1	22:AV:67:VAL:HA	2.24	0.65
23:AW:13:LEU:HB2	23:AW:17:ARG:HH21	1.61	0.65
23:AW:66:ALA:HB1	23:AW:72:LEU:HB2	1.79	0.65
52:B4:9:LYS:CD	52:B4:10:LYS:H	2.09	0.65
55:B7:16:ILE:CD1	55:B7:16:ILE:N	2.60	0.65
56:B8:16:VAL:HG13	56:B8:16:VAL:O	1.95	0.65
25:BA:1011:G:C5	25:BA:1013:C:C5	2.85	0.65
25:BA:1139:G:O2'	25:BA:1142(A):A:C2	2.49	0.65
25:BA:1275:A:N6	25:BA:1295:C:O2'	2.30	0.65
25:BA:1309:G:C6	25:BA:1310:G:N7	2.65	0.65
25:BA:1391:U:H2'	25:BA:1391:U:O2	1.97	0.65
25:BA:1531:C:N3	25:BA:1532:C:N4	2.42	0.65
25:BA:1544:C:C2'	25:BA:1545:A:O5'	2.44	0.65
25:BA:1303:G:N2	25:BA:1626:G:O2'	2.29	0.65
25:BA:1937:A:N6	25:BA:1939:U:O4	2.28	0.65
25:BA:1983:C:O2'	25:BA:1984:G:C5'	2.45	0.65
25:BA:2291:U:H2'	25:BA:2292:C:C6	2.32	0.65
25:BA:2346:A:HO2'	25:BA:2347:C:P	2.20	0.65
25:BA:2408:U:O2	25:BA:2409:G:N7	2.30	0.65
25:BA:2555:U:C5	25:BA:2556:C:C6	2.84	0.65
25:BA:2666:C:C3'	25:BA:2667:C:H5'	2.25	0.65
25:BA:221:A:N7	25:BA:266:G:C5	2.65	0.65
25:BA:2683:C:OP1	41:BS:60:THR:CG2	2.45	0.65
25:BA:270(Z):U:OP1	25:BA:270(Z):U:H4'	1.96	0.65
25:BA:386:G:O2'	25:BA:387:U:C5	2.47	0.65
25:BA:487:C:O2'	44:BV:52:GLU:HB3	1.97	0.65
25:BA:977:G:C2	25:BA:978:G:N3	2.65	0.65
25:BA:995:C:N4	35:BM:3:THR:OG1	2.29	0.65
28:BD:48:ARG:C	28:BD:49:ILE:HG13	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:450:G:C5'	30:BF:52:LYS:HD3	2.26	0.65
35:BM:103:VAL:HG23	35:BM:104:LYS:N	2.11	0.65
35:BM:7:LYS:HD3	35:BM:10:GLU:HB2	1.77	0.65
38:BP:112:GLU:HA	38:BP:115:MET:CG	2.25	0.65
38:BP:11:LYS:HG2	38:BP:12:GLN:H	1.61	0.65
42:BT:108:GLU:HB2	42:BT:111:GLU:OE1	1.96	0.65
42:BT:57:PHE:O	42:BT:61:TRP:HD1	1.80	0.65
25:BA:1224:G:H2'	43:BU:87:HIS:NE2	2.12	0.65
25:BA:1161:C:H5'	43:BU:8:GLY:HA3	1.77	0.65
43:BU:67:GLY:C	43:BU:93:GLU:O	2.34	0.65
25:BA:1322:A:H5''	44:BV:11:ARG:NH1	2.11	0.65
45:BW:17:ALA:HB1	45:BW:21:PHE:HZ	1.62	0.65
45:BW:27:THR:HA	45:BW:80:ILE:HD12	1.78	0.65
45:BW:32:PRO:O	45:BW:33:LYS:HB3	1.96	0.65
47:BY:20:ARG:HB2	47:BY:20:ARG:CZ	2.26	0.65
47:BY:43:GLU:O	47:BY:44:PHE:C	2.34	0.65
48:BZ:5:LYS:HG2	48:BZ:6:GLY:H	1.62	0.65
1:AA:1537:U:H2'	1:AA:1538:C:H1'	1.79	0.65
1:AA:398:C:O5'	1:AA:398:C:H6	1.79	0.65
1:AA:1066:C:C3'	1:AA:1067:A:C8	2.80	0.65
1:AA:1067:A:O2'	1:AA:1068:G:OP2	2.13	0.65
1:AA:159:G:N1	1:AA:163:C:N4	2.44	0.65
1:AA:262:A:H5'	23:AW:74:LYS:HG3	1.79	0.65
1:AA:38:G:N2	1:AA:397:A:O5'	2.24	0.65
1:AA:698:G:O2'	1:AA:699:C:H5'	1.97	0.65
1:AA:781:A:C2'	1:AA:782:A:C5'	2.69	0.65
1:AA:821:G:H2'	1:AA:822:C:H6	1.62	0.65
5:AE:169:LYS:CD	5:AE:170:GLU:N	2.60	0.65
5:AE:54:THR:HG23	5:AE:199:TYR:HB3	1.79	0.65
5:AE:69:LEU:HD13	5:AE:69:LEU:C	2.18	0.65
7:AG:107:ARG:HD2	7:AG:173:TRP:CZ2	2.32	0.65
1:AA:1346:A:H2'	10:AJ:10:ARG:HH21	1.62	0.65
1:AA:1346:A:C2	10:AJ:10:ARG:NE	2.65	0.65
10:AJ:27:ILE:HG23	10:AJ:43:PHE:HB2	1.79	0.65
49:B1:3:LYS:CA	49:B1:6:GLU:HG2	2.25	0.65
50:B2:9:VAL:HG23	50:B2:10:LYS:H	1.61	0.65
51:B3:5:ILE:HG22	51:B3:7:PRO:CD	2.20	0.65
53:B5:20:ASN:ND2	53:B5:43:CYS:HB2	2.12	0.65
54:B6:48:LYS:CG	54:B6:49:ARG:N	2.41	0.65
55:B7:30:ARG:CA	55:B7:34:TRP:NE1	2.60	0.65
25:BA:1183:G:H4'	25:BA:1184:G:C5'	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:811:U:H4'	25:BA:1251:C:H1'	1.79	0.65
25:BA:1417:C:H3'	25:BA:1418:G:H8	1.60	0.65
25:BA:149:A:N7	25:BA:150:C:C6	2.66	0.65
25:BA:1667:G:OP1	36:BN:6:THR:HA	1.96	0.65
25:BA:1706:U:HO2'	25:BA:1707:G:P	2.17	0.65
25:BA:2018:G:H21	42:BT:34:LYS:HD2	1.61	0.65
25:BA:2129:C:O3'	27:BC:6:ARG:HB3	1.95	0.65
25:BA:241:A:O2'	25:BA:242:G:C4'	2.44	0.65
25:BA:241:A:C8	25:BA:243:U:C4	2.84	0.65
25:BA:1662:C:O2'	25:BA:2687:U:OP1	2.15	0.65
25:BA:270(X):G:N3	25:BA:270(Y):G:H4'	2.12	0.65
25:BA:2783:G:C6	25:BA:2784:C:C4	2.84	0.65
25:BA:491:G:H2'	25:BA:492:A:C8	2.32	0.65
25:BA:498:G:C8	25:BA:498:G:O5'	2.39	0.65
25:BA:692:C:O2'	25:BA:693:C:H5'	1.97	0.65
25:BA:977:G:O2'	25:BA:978:G:H4'	1.97	0.65
25:BA:987:G:C2'	25:BA:988:A:H5'	2.24	0.65
26:BB:25:A:H2'	26:BB:26:A:C8	2.31	0.65
27:BC:175:VAL:CA	27:BC:188:ASN:HD22	2.09	0.65
28:BD:176:ARG:HA	28:BD:182:LEU:CD2	2.27	0.65
28:BD:61:LEU:HD12	28:BD:86:PRO:CG	2.26	0.65
28:BD:91:ARG:NH1	28:BD:91:ARG:HB2	2.12	0.65
29:BE:179:GLU:HB2	29:BE:181:LEU:HD12	1.79	0.65
29:BE:53:PRO:HG2	29:BE:58:ARG:NH1	2.12	0.65
30:BF:103:LYS:CG	30:BF:106:ARG:HH11	2.08	0.65
30:BF:195:ASP:O	30:BF:197:ASP:N	2.29	0.65
31:BG:26:GLN:CD	31:BG:31:VAL:HG21	2.18	0.65
31:BG:5:VAL:HG12	31:BG:9:ARG:NH2	2.09	0.65
32:BH:11:VAL:CG2	32:BH:50:VAL:HG21	2.25	0.65
32:BH:73:ALA:C	32:BH:76:VAL:HG13	2.18	0.65
32:BH:8:PRO:HA	32:BH:51:ARG:NE	2.11	0.65
35:BM:25:ARG:O	35:BM:28:THR:HG23	1.96	0.65
35:BM:33:LEU:HD13	35:BM:34:LEU:N	2.13	0.65
35:BM:39:ARG:HB2	35:BM:40:PRO:CD	2.27	0.65
35:BM:63:THR:CB	35:BM:65:LYS:HD3	2.26	0.65
36:BN:69:VAL:N	36:BN:104:ARG:NH2	2.44	0.65
36:BN:86:ILE:HG23	36:BN:90:GLN:HA	1.79	0.65
37:BO:96:THR:HG22	37:BO:99:LEU:HD12	1.79	0.65
38:BP:48:GLU:O	38:BP:51:ARG:HG2	1.97	0.65
38:BP:75:THR:CG2	38:BP:89:ASN:O	2.43	0.65
40:BR:4:LEU:N	40:BR:4:LEU:HD23	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BR:3:ARG:CG	40:BR:4:LEU:HG	2.25	0.65
41:BS:27:THR:CB	41:BS:95:ARG:H	2.10	0.65
41:BS:2:ASN:ND2	41:BS:3:ARG:NE	2.45	0.65
42:BT:57:PHE:O	42:BT:58:ARG:C	2.33	0.65
43:BU:35:LEU:CD2	43:BU:36:PRO:HD2	2.24	0.65
45:BW:65:ARG:CB	45:BW:70:LEU:HD12	2.27	0.65
46:BX:75:ILE:HG22	46:BX:100:ALA:HB2	1.77	0.65
48:BZ:14:ARG:O	48:BZ:15:ASP:HB2	1.96	0.65
26:BB:12:C:C4'	48:BZ:74:ARG:HE	2.10	0.65
33:BK:114:LEU:HD22	33:BK:130:TYR:CD2	2.32	0.65
33:BK:87:LYS:HG2	33:BK:121:LYS:C	2.17	0.65
33:BK:91:SER:HB3	33:BK:121:LYS:CD	2.26	0.65
25:BA:1101:U:H2'	25:BA:1102:C:C6	2.32	0.65
34:BL:78:ILE:HD13	34:BL:131:ALA:CB	2.27	0.65
1:AA:1121:U:O5'	1:AA:1121:U:H6	1.80	0.65
1:AA:218:C:H5'	1:AA:466:C:H42	1.62	0.65
1:AA:1144:G:H2'	1:AA:1144:G:N3	2.11	0.64
1:AA:1203:C:H2'	1:AA:1204:A:O4'	1.97	0.64
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.32	0.64
1:AA:171:A:O2'	1:AA:172:A:H5'	1.96	0.64
1:AA:308:C:C2	1:AA:309:G:C8	2.84	0.64
1:AA:370:C:C4	1:AA:371:G:N7	2.65	0.64
1:AA:498:A:H4'	1:AA:500:G:OP1	1.96	0.64
1:AA:510:A:H8	1:AA:510:A:O5'	1.81	0.64
1:AA:568:G:C6	1:AA:569:C:N4	2.65	0.64
1:AA:632:A:C4	1:AA:633:G:C8	2.85	0.64
1:AA:693:G:N2	3:AD:37:A:C2	2.66	0.64
1:AA:737:A:H3'	9:AI:92:LYS:NZ	2.11	0.64
1:AA:967:C:C5	1:AA:968:A:H2'	2.32	0.64
6:AF:48:TYR:C	6:AF:48:TYR:CD2	2.71	0.64
7:AG:158:ILE:O	7:AG:162:LEU:HG	1.97	0.64
7:AG:24:GLU:CD	7:AG:25:ARG:N	2.51	0.64
7:AG:78:LEU:O	7:AG:81:GLU:HB3	1.97	0.64
8:AH:9:LYS:CE	8:AH:112:LEU:HD23	2.27	0.64
8:AH:57:LYS:HE3	8:AH:61:TYR:CE2	2.32	0.64
1:AA:737:A:H3'	9:AI:92:LYS:HZ2	1.63	0.64
8:AH:78:HIS:CG	11:AK:107:LEU:HD11	2.32	0.64
11:AK:18:ARG:HD2	11:AK:18:ARG:H	1.61	0.64
11:AK:22:GLU:HA	11:AK:63:LEU:CD1	2.28	0.64
16:AP:40:ASN:OD1	16:AP:42:ALA:HB3	1.97	0.64
23:AW:76:ALA:O	23:AW:79:ARG:HG2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B1:36:ILE:C	49:B1:38:GLN:HG3	2.17	0.64
50:B2:8:LEU:CD1	50:B2:31:LEU:HA	2.27	0.64
54:B6:30:VAL:HG22	54:B6:33:ARG:HH22	1.58	0.64
25:BA:242:G:C8	55:B7:4:MET:CG	2.77	0.64
25:BA:1012:U:H5'	25:BA:1013:C:OP1	1.96	0.64
25:BA:1243:G:N2	25:BA:1244:G:C4	2.65	0.64
25:BA:1268:A:C2'	25:BA:1269:A:H8	2.11	0.64
25:BA:1299:G:C8	25:BA:1299:G:H3'	2.33	0.64
25:BA:131:G:H2'	25:BA:132:G:C8	2.32	0.64
25:BA:1655:A:H2'	25:BA:1656:C:O4'	1.97	0.64
25:BA:173:G:H2'	25:BA:173:G:N3	2.11	0.64
25:BA:1982:C:H5''	25:BA:1983:C:OP2	1.97	0.64
25:BA:197:A:H5''	25:BA:2068:U:C4	2.31	0.64
25:BA:2213:U:H5''	25:BA:2213:U:C2	2.32	0.64
25:BA:2330:G:H22	25:BA:2385:C:H42	1.44	0.64
25:BA:256:A:H2'	25:BA:257:A:C8	2.32	0.64
25:BA:270(P):C:H5'	33:BK:45:LYS:CG	2.19	0.64
25:BA:2751:G:N3	25:BA:2751:G:H2'	2.12	0.64
25:BA:2818:G:C2	25:BA:2829:C:N3	2.64	0.64
25:BA:2895:U:H2'	25:BA:2896:C:C6	2.32	0.64
25:BA:289:A:H2'	25:BA:351:G:H22	1.61	0.64
25:BA:329:G:O2'	25:BA:330:A:OP1	2.10	0.64
25:BA:350:U:H2'	25:BA:351:G:OP1	1.96	0.64
25:BA:542:C:O2'	25:BA:543:C:H5'	1.97	0.64
25:BA:869:G:H2'	25:BA:870:A:O4'	1.97	0.64
25:BA:954:G:H5''	38:BP:17:LEU:HD23	1.78	0.64
25:BA:997:G:OP1	42:BT:92:ARG:CD	2.45	0.64
26:BB:81:G:C6	26:BB:82:G:N7	2.65	0.64
28:BD:91:ARG:HH22	28:BD:198:ASN:HB2	1.62	0.64
28:BD:95:LEU:HB2	28:BD:105:ILE:CG2	2.27	0.64
29:BE:10:GLY:CA	29:BE:23:VAL:HG12	2.26	0.64
25:BA:2787:C:C5'	29:BE:64:LYS:HZ3	2.09	0.64
30:BF:125:LEU:C	30:BF:127:GLU:H	1.99	0.64
31:BG:127:GLY:O	31:BG:128:ARG:HB2	1.97	0.64
32:BH:35:VAL:HA	32:BH:71:LEU:HD21	1.79	0.64
33:BK:5:LEU:HB3	33:BK:8:PRO:CG	2.27	0.64
35:BM:55:VAL:HG11	35:BM:127:ASP:CA	2.27	0.64
36:BN:10:VAL:O	36:BN:11:ALA:CB	2.45	0.64
36:BN:11:ALA:HB3	36:BN:97:ARG:NH1	2.13	0.64
37:BO:138:LEU:HD21	37:BO:145:PRO:CD	2.28	0.64
38:BP:115:MET:O	38:BP:118:LEU:HG	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:103:ARG:HB2	39:BQ:108:GLY:C	2.18	0.64
41:BS:58:ASN:N	41:BS:61:PHE:CD2	2.66	0.64
42:BT:89:GLU:HA	43:BU:51:VAL:HG12	1.79	0.64
43:BU:35:LEU:O	43:BU:61:VAL:HA	1.97	0.64
44:BV:104:THR:O	44:BV:104:THR:CG2	2.45	0.64
46:BX:97:ARG:CZ	46:BX:101:LYS:CG	2.75	0.64
47:BY:46:LYS:C	47:BY:49:ARG:HB2	2.16	0.64
47:BY:99:TYR:CD2	47:BY:124:ILE:HG21	2.32	0.64
33:BK:127:VAL:HG22	33:BK:141:LYS:CA	2.27	0.64
47:BY:157:LEU:HD22	47:BY:161:VAL:HG22	1.79	0.64
34:BL:79:ARG:NH1	34:BL:87:GLY:CA	2.60	0.64
25:BA:847:U:C6	25:BA:847:U:H3'	2.31	0.64
1:AA:87:A:H2'	1:AA:88:C:O4'	1.97	0.64
25:BA:1193:G:H2'	25:BA:1194:A:O4'	1.97	0.64
1:AA:101:A:C4	1:AA:102:G:C8	2.86	0.64
1:AA:112:G:C2'	1:AA:113:G:H5'	2.27	0.64
1:AA:1239:A:H4'	1:AA:1240:U:C5'	2.25	0.64
1:AA:1284:C:H2'	1:AA:1285:A:C8	2.32	0.64
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.61	0.64
1:AA:155:C:O2'	1:AA:156:G:H5'	1.97	0.64
1:AA:194:C:O3'	23:AW:68:LYS:NZ	2.30	0.64
1:AA:21:G:C2'	1:AA:22:G:H8	2.06	0.64
1:AA:262:A:H4'	23:AW:75:ASN:OD1	1.97	0.64
1:AA:336:C:O2'	1:AA:337:C:H5'	1.96	0.64
1:AA:373:A:O2'	1:AA:374:A:H5'	1.97	0.64
1:AA:39:G:H2'	1:AA:40:C:O5'	1.98	0.64
1:AA:373:A:C2	1:AA:482:A:N6	2.65	0.64
1:AA:520:A:H8	1:AA:521:G:H5''	1.61	0.64
1:AA:721:G:N2	1:AA:733:A:N6	2.44	0.64
1:AA:766:A:H2'	1:AA:767:A:O5'	1.96	0.64
1:AA:782:A:C8	1:AA:783:C:C5	2.85	0.64
1:AA:915:A:C2'	1:AA:916:G:H5'	2.27	0.64
2:AC:1:C:O2'	2:AC:2:G:H5'	1.97	0.64
6:AF:173:VAL:HG12	6:AF:175:LEU:HD12	1.78	0.64
7:AG:128:VAL:HG12	7:AG:129:ASN:N	2.12	0.64
8:AH:79:GLU:HG3	8:AH:93:PRO:CD	2.26	0.64
12:AL:109:VAL:HG12	12:AL:109:VAL:O	1.97	0.64
14:AN:124:LYS:HD3	14:AN:125:PHE:CE1	2.32	0.64
14:AN:19:ALA:HB3	14:AN:82:VAL:CG2	2.26	0.64
15:AO:54:LYS:HD2	15:AO:54:LYS:H	1.62	0.64
16:AP:20:THR:OG1	16:AP:26:GLY:HA2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:37:THR:HG23	16:AP:56:LEU:HD22	1.79	0.64
18:AR:24:SER:H	18:AR:27:VAL:HG21	1.59	0.64
1:AA:728:A:C8	18:AR:54:ARG:CZ	2.81	0.64
18:AR:59:MET:O	18:AR:63:ARG:CG	2.45	0.64
19:AS:57:ARG:CA	19:AS:60:LEU:HD12	2.22	0.64
49:B1:7:GLU:HA	49:B1:10:LYS:CG	2.27	0.64
51:B3:33:VAL:CG1	51:B3:35:VAL:HG23	2.26	0.64
51:B3:52:THR:HG22	51:B3:53:GLU:N	2.12	0.64
52:B4:51:TYR:CE1	52:B4:55:ARG:HD3	2.32	0.64
53:B5:16:CYS:SG	53:B5:19:ARG:NH1	2.70	0.64
55:B7:30:ARG:NE	55:B7:44:LYS:HB2	2.11	0.64
25:BA:1312:U:C3'	25:BA:1313:U:C5	2.78	0.64
25:BA:1543:A:H3'	25:BA:1544:C:O4'	1.96	0.64
25:BA:1912:A:C8	25:BA:1913:A:H1'	2.33	0.64
25:BA:1993:U:C4	25:BA:1994:C:H5	2.14	0.64
25:BA:2213:U:O2	25:BA:2213:U:H3'	1.97	0.64
25:BA:2225:A:C4'	25:BA:2226:C:H6	2.10	0.64
25:BA:2346:A:O2'	25:BA:2347:C:OP2	2.15	0.64
25:BA:2379:G:C2	25:BA:2380:C:C2	2.85	0.64
25:BA:2392:A:C8	25:BA:2393:A:O4'	2.51	0.64
25:BA:411:G:C4'	25:BA:2407:G:OP1	2.45	0.64
25:BA:200:U:O4	25:BA:248:G:C5	2.50	0.64
25:BA:2527:C:O2'	25:BA:2528:U:H5'	1.97	0.64
25:BA:2594:C:H2'	25:BA:2595:G:C8	2.32	0.64
25:BA:2620:C:C4	25:BA:2621:A:N7	2.65	0.64
25:BA:2705:A:H2'	25:BA:2706:G:O5'	1.96	0.64
25:BA:443:A:H61	30:BF:41:LEU:HD11	1.61	0.64
25:BA:534:U:OP1	42:BT:24:TYR:HE2	1.80	0.64
25:BA:569:U:C4	25:BA:570:G:C6	2.84	0.64
25:BA:591:C:C4	25:BA:592:G:N7	2.65	0.64
25:BA:660:G:H2'	25:BA:661:C:C6	2.33	0.64
25:BA:814:C:H2'	25:BA:815:C:H6	1.61	0.64
25:BA:886:C:H4'	25:BA:887:A:O4'	1.98	0.64
25:BA:986:C:C6	25:BA:986:C:C3'	2.80	0.64
26:BB:38:C:O2	26:BB:44:G:N2	2.30	0.64
27:BC:108:MET:CE	27:BC:136:LEU:HD13	2.28	0.64
25:BA:1567:A:N1	28:BD:85:ASP:C	2.51	0.64
30:BF:66:PRO:C	30:BF:68:LYS:N	2.48	0.64
16:AP:3:ARG:NH2	31:BG:139:LEU:HD22	2.12	0.64
31:BG:140:ILE:O	31:BG:142:PRO:HD2	1.96	0.64
31:BG:34:LEU:CD2	31:BG:172:LEU:HD11	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:7:LEU:CB	32:BH:52:VAL:HG22	2.27	0.64
32:BH:97:ARG:O	32:BH:104:GLU:HB2	1.97	0.64
33:BK:6:LEU:N	33:BK:8:PRO:HD3	2.12	0.64
35:BM:55:VAL:HG11	35:BM:127:ASP:CB	2.27	0.64
35:BM:127:ASP:C	35:BM:129:PRO:CD	2.65	0.64
36:BN:2:ILE:HA	36:BN:33:ALA:O	1.97	0.64
36:BN:71:ARG:N	36:BN:72:PRO:HD2	2.12	0.64
37:BO:38:GLN:O	37:BO:39:LYS:C	2.34	0.64
38:BP:16:ARG:CZ	38:BP:73:PRO:CD	2.64	0.64
40:BR:96:GLY:O	40:BR:97:ARG:C	2.35	0.64
25:BA:456:C:C5	45:BW:68:ARG:NH1	2.66	0.64
46:BX:93:GLY:C	46:BX:95:LYS:N	2.50	0.64
47:BY:152:ALA:O	47:BY:155:LEU:HD22	1.96	0.64
47:BY:40:ASP:O	47:BY:44:PHE:CD1	2.50	0.64
47:BY:55:HIS:ND1	47:BY:55:HIS:N	2.43	0.64
25:BA:1065:U:C3'	25:BA:1066:U:H5''	2.27	0.64
34:BL:99:ILE:HG23	34:BL:103:GLN:NE2	2.12	0.64
34:BL:121:GLU:HB3	34:BL:125:ARG:CZ	2.27	0.64
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.96	0.64
1:AA:1350:A:H2'	1:AA:1351:U:O4'	1.97	0.64
1:AA:1363:A:H5''	1:AA:1364:U:OP1	1.97	0.64
1:AA:236:G:C4	1:AA:237:C:C5	2.85	0.64
1:AA:247:G:H21	1:AA:282:A:H2	1.42	0.64
1:AA:38:G:N3	1:AA:397:A:H2	1.96	0.64
1:AA:443:C:H2'	1:AA:444:C:C6	2.32	0.64
1:AA:47:C:O2'	1:AA:48:C:OP2	2.15	0.64
1:AA:579:G:H8	1:AA:579:G:O5'	1.81	0.64
1:AA:591:U:P	11:AK:30:ARG:NH2	2.71	0.64
1:AA:65:U:H4'	1:AA:66:G:C5'	2.27	0.64
1:AA:67:C:H4'	1:AA:172:A:O4'	1.97	0.64
1:AA:887:G:O2'	1:AA:888:G:H5'	1.97	0.64
1:AA:20:U:H5	1:AA:916:G:C2	2.14	0.64
1:AA:917:G:O2'	1:AA:918:A:H5'	1.98	0.64
7:AG:98:GLU:HB3	7:AG:189:PRO:HG3	1.77	0.64
8:AH:11:ILE:CG2	8:AH:12:LEU:N	2.61	0.64
8:AH:71:LEU:CD2	8:AH:73:ASN:H	2.09	0.64
10:AJ:76:ARG:HB2	10:AJ:156:TRP:CE2	2.32	0.64
10:AJ:84:ASN:C	10:AJ:85:TYR:HD2	2.01	0.64
11:AK:69:ARG:CZ	11:AK:74:PRO:O	2.45	0.64
13:AM:30:SER:HB2	13:AM:81:THR:CA	2.27	0.64
13:AM:4:ILE:HD13	13:AM:98:ILE:HG21	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:28:LYS:CD	15:AO:33:ARG:HH12	2.10	0.64
19:AS:26:ARG:HD2	19:AS:31:LYS:H	1.62	0.64
19:AS:42:ARG:O	19:AS:43:LYS:HB2	1.97	0.64
19:AS:51:VAL:HG21	19:AS:73:LEU:HD11	1.79	0.64
20:AT:9:VAL:CG2	20:AT:84:LEU:HD12	2.26	0.64
51:B3:45:GLY:HA2	51:B3:53:GLU:O	1.96	0.64
25:BA:1140:C:O2'	25:BA:1143:A:N6	2.31	0.64
25:BA:1178:C:C2'	25:BA:1179:C:H6	2.10	0.64
25:BA:1222:C:H42	25:BA:1227:A:H62	1.44	0.64
25:BA:1309:G:C2	25:BA:1310:G:C8	2.85	0.64
25:BA:147:U:C2	25:BA:148:C:C5	2.85	0.64
25:BA:1291:C:H4'	25:BA:1535:U:O3'	1.97	0.64
25:BA:1642:G:O2'	25:BA:1643:G:H5'	1.98	0.64
25:BA:1643:G:N2	25:BA:1644:C:H1'	2.12	0.64
25:BA:1663:C:H3'	25:BA:1664:A:C8	2.32	0.64
25:BA:1707:G:H1'	25:BA:1756:G:H1'	1.79	0.64
25:BA:1850:G:H2'	25:BA:1851:U:O4'	1.97	0.64
25:BA:1861:G:N2	25:BA:1862:G:C1'	2.60	0.64
25:BA:1899:G:C3'	25:BA:1899:G:C8	2.77	0.64
25:BA:1992:G:H4'	25:BA:1993:U:C4	2.32	0.64
25:BA:2009:G:C6	25:BA:2010:G:N7	2.65	0.64
25:BA:2266:A:OP2	25:BA:2267:A:N3	2.30	0.64
25:BA:2745:C:H2'	25:BA:2746:U:H6	1.61	0.64
25:BA:298:G:O5'	25:BA:298:G:C8	2.49	0.64
25:BA:363(B):G:C2'	25:BA:363(C):G:O5'	2.45	0.64
25:BA:417:C:C2	25:BA:418:G:C8	2.85	0.64
25:BA:535:C:O2'	25:BA:536:A:H5'	1.98	0.64
25:BA:566:U:C3'	25:BA:567:A:H8	2.09	0.64
25:BA:617:G:C8	25:BA:618:G:N7	2.65	0.64
25:BA:799:G:OP2	25:BA:800:A:H2'	1.97	0.64
25:BA:881:G:H3'	25:BA:882:G:H8	1.60	0.64
27:BC:77:ILE:HG21	27:BC:100:ILE:HD11	1.80	0.64
28:BD:152:GLY:O	28:BD:153:ALA:C	2.34	0.64
28:BD:147:LEU:CD2	28:BD:154:LYS:HG3	2.25	0.64
25:BA:2210:G:C6	28:BD:70:TRP:CD1	2.86	0.64
30:BF:116:ASP:HA	30:BF:119:ARG:HD2	1.78	0.64
30:BF:194:MET:HE1	30:BF:197:ASP:CA	2.27	0.64
32:BH:101:ARG:HA	32:BH:101:ARG:NE	2.11	0.64
35:BM:77:GLY:O	35:BM:78:TYR:HB2	1.95	0.64
37:BO:126:VAL:CA	37:BO:146:VAL:H	2.10	0.64
37:BO:76:LYS:HZ2	37:BO:112:LEU:CD1	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:67:ARG:NE	38:BP:103:MET:HB3	2.11	0.64
38:BP:125:LEU:HB3	38:BP:126:PRO:CD	2.27	0.64
39:BQ:14:SER:HA	39:BQ:17:ARG:NE	2.12	0.64
36:BN:73:ASP:C	41:BS:79:HIS:CE1	2.71	0.64
41:BS:30:VAL:HB	41:BS:90:GLN:HA	1.78	0.64
41:BS:27:THR:OG1	41:BS:95:ARG:N	2.29	0.64
25:BA:1011:G:OP2	42:BT:75:ASN:HB3	1.98	0.64
43:BU:5:VAL:HG12	43:BU:38:LEU:C	2.18	0.64
44:BV:18:ARG:CZ	44:BV:76:VAL:HG12	2.28	0.64
25:BA:747:U:O2'	44:BV:88:ARG:HG3	1.97	0.64
46:BX:42:VAL:CG2	46:BX:61:ILE:HG21	2.27	0.64
46:BX:79:CYS:HB2	46:BX:98:VAL:HB	1.78	0.64
47:BY:6:LYS:HE2	47:BY:35:ARG:CD	2.28	0.64
47:BY:96:VAL:HG13	47:BY:128:VAL:HG22	1.79	0.64
48:BZ:46:LYS:HG2	48:BZ:77:ARG:O	1.98	0.64
33:BK:114:LEU:HD13	33:BK:130:TYR:CD2	2.32	0.64
22:AV:30:LEU:HD12	22:AV:59:PRO:CB	2.28	0.64
10:AJ:67:GLU:OE2	10:AJ:67:GLU:HA	1.98	0.64
1:AA:934:C:N4	1:AA:1344:C:N3	2.45	0.64
1:AA:1499:A:C2'	1:AA:1500:A:H5'	2.27	0.64
1:AA:432:A:N7	1:AA:433:C:C6	2.66	0.64
1:AA:529:G:H3'	1:AA:529:G:C8	2.32	0.64
1:AA:558:G:H3'	1:AA:559:A:C5'	2.20	0.64
1:AA:859:A:H2'	1:AA:860:A:C5'	2.28	0.64
1:AA:891:U:H5	1:AA:906:G:C2	2.15	0.64
1:AA:961:U:H5	1:AA:983:A:N7	1.94	0.64
5:AE:208:ILE:HD13	5:AE:239:VAL:HG11	1.80	0.64
5:AE:67:THR:HB	5:AE:155:LEU:CD2	2.25	0.64
6:AF:37:GLN:O	6:AF:38:ARG:C	2.36	0.64
7:AG:133:VAL:HG11	7:AG:138:TYR:HD1	1.62	0.64
7:AG:135:LEU:C	7:AG:137:SER:N	2.48	0.64
7:AG:153:ARG:HD3	7:AG:181:MET:HE1	1.78	0.64
7:AG:58:LEU:O	7:AG:58:LEU:HD22	1.97	0.64
9:AI:48:LEU:HD23	9:AI:60:PHE:HZ	1.61	0.64
11:AK:4:ASP:HB2	11:AK:6:ILE:HG22	1.80	0.64
15:AO:40:VAL:HG11	15:AO:77:LEU:O	1.98	0.64
16:AP:4:ILE:HG22	16:AP:57:ARG:CG	2.26	0.64
1:AA:474:G:H5'	19:AS:81:ARG:HE	1.61	0.64
20:AT:61:GLU:HA	20:AT:71:PHE:CD1	2.31	0.64
21:AU:69:THR:O	21:AU:70:ILE:C	2.36	0.64
50:B2:5:LYS:HZ1	50:B2:57:GLU:HB2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:33:ARG:HH21	52:B4:56:LYS:CE	2.09	0.64
55:B7:51:ALA:C	55:B7:53:PRO:HD2	2.17	0.64
55:B7:20:GLY:C	55:B7:57:ARG:HH21	2.00	0.64
25:BA:2754:U:H5'	56:B8:15:LYS:NZ	2.12	0.64
25:BA:1000:A:N6	25:BA:1155:A:O4'	2.31	0.64
25:BA:114:U:H2'	25:BA:115:C:C6	2.32	0.64
25:BA:1263:U:C5	25:BA:1264:G:N1	2.65	0.64
25:BA:126:A:OP1	54:B6:18:PHE:N	2.30	0.64
25:BA:1342:A:H2'	25:BA:1345:C:H41	1.60	0.64
25:BA:1352:U:H2'	25:BA:1352:U:O2	1.95	0.64
25:BA:1372:U:O2'	25:BA:1373:A:H5'	1.97	0.64
25:BA:1419:A:P	25:BA:1419:A:O4'	2.55	0.64
25:BA:1519:G:H3'	25:BA:1520:U:C2	2.32	0.64
25:BA:1519:G:H2'	25:BA:1520:U:O4'	1.97	0.64
25:BA:1568:G:OP1	28:BD:86:PRO:HG2	1.97	0.64
25:BA:192:C:O2	25:BA:192:C:H2'	1.96	0.64
25:BA:1981:A:H5''	25:BA:1982:C:P	2.38	0.64
25:BA:2121:G:H1'	27:BC:167:LYS:HE2	1.79	0.64
25:BA:228:A:H2'	25:BA:229:A:C5'	2.27	0.64
25:BA:2298:A:C4'	25:BA:2322:A:HO2'	2.10	0.64
25:BA:2355:C:C4	25:BA:2356:C:N4	2.66	0.64
25:BA:2595:G:H22	25:BA:2597:G:H3'	1.62	0.64
25:BA:270(M):U:O3'	25:BA:270(N):G:H4'	1.97	0.64
25:BA:271:G:N2	25:BA:272:G:C4	2.65	0.64
25:BA:2737:G:H2'	25:BA:2738:A:H8	1.62	0.64
25:BA:2781:A:H2'	25:BA:2782:G:C4'	2.26	0.64
25:BA:283:A:H3'	25:BA:284:U:C6	2.31	0.64
25:BA:2876:G:H5'	41:BS:1:MET:H2	1.63	0.64
25:BA:292:C:H2'	25:BA:293:U:O2	1.98	0.64
25:BA:107:C:H4'	25:BA:293:U:C1'	2.26	0.64
25:BA:389:G:O6	37:BO:64:LYS:CG	2.45	0.64
25:BA:462:C:C2	25:BA:468:G:N2	2.65	0.64
25:BA:575:A:OP1	25:BA:2499:C:O2'	2.14	0.64
25:BA:687:C:H4'	54:B6:4:THR:HG21	1.79	0.64
25:BA:704:G:N2	25:BA:726:G:O2'	2.31	0.64
26:BB:12:C:P	48:BZ:74:ARG:HG2	2.37	0.64
27:BC:131:LEU:HB3	27:BC:136:LEU:O	1.98	0.64
27:BC:123:VAL:HG12	27:BC:138:PRO:HD2	1.79	0.64
27:BC:91:ALA:CB	27:BC:153:ILE:HG21	2.28	0.64
28:BD:54:ARG:CD	28:BD:218:ARG:HB3	2.27	0.64
28:BD:84:TYR:HD2	28:BD:84:TYR:N	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:102:VAL:CG1	29:BE:172:VAL:HG12	2.26	0.64
29:BE:171:GLU:HB3	29:BE:173:VAL:HG12	1.78	0.64
29:BE:25:VAL:HG23	29:BE:182:LEU:O	1.98	0.64
25:BA:2820:A:N6	29:BE:192:ASN:H	1.96	0.64
30:BF:53:THR:C	30:BF:55:GLY:H	2.01	0.64
31:BG:21:ARG:NH1	31:BG:27:ASN:HA	2.13	0.64
32:BH:35:VAL:CB	32:BH:72:ILE:HG12	2.21	0.64
32:BH:29:PRO:CD	32:BH:79:VAL:HA	2.23	0.64
35:BM:58:ASP:N	35:BM:124:ALA:HB1	2.12	0.64
36:BN:97:ARG:CB	36:BN:117:LEU:HD11	2.27	0.64
36:BN:18:LYS:NZ	36:BN:44:LYS:CE	2.60	0.64
36:BN:15:GLY:N	36:BN:52:VAL:HG21	2.10	0.64
37:BO:122:PRO:HG3	37:BO:137:LYS:O	1.97	0.64
37:BO:15:ARG:NH2	37:BO:16:ARG:HB2	2.11	0.64
38:BP:9:TYR:HB2	38:BP:10:ARG:HD3	1.78	0.64
38:BP:46:GLN:OE1	38:BP:126:PRO:CD	2.45	0.64
38:BP:85:LYS:HZ3	48:BZ:10:THR:HG21	1.59	0.64
41:BS:41:ARG:N	41:BS:41:ARG:HE	1.86	0.64
42:BT:21:ALA:HA	42:BT:24:TYR:HE1	1.62	0.64
42:BT:50:ARG:HD3	42:BT:50:ARG:H	1.63	0.64
25:BA:993:G:H1'	43:BU:91:TYR:HE2	1.62	0.64
25:BA:1334:G:O3'	45:BW:65:ARG:CZ	2.46	0.64
46:BX:44:ILE:HG22	46:BX:44:ILE:O	1.97	0.64
48:BZ:32:ARG:HB3	48:BZ:32:ARG:CZ	2.27	0.64
33:BK:75:LEU:HD13	33:BK:76:THR:N	2.06	0.64
1:AA:1241:G:O2'	1:AA:1242:C:H5'	1.98	0.64
1:AA:1419:G:O2'	1:AA:1420:C:C5'	2.46	0.64
1:AA:1419:G:H2'	1:AA:1420:C:C6	2.33	0.64
1:AA:1413:A:N6	1:AA:1488:G:C6	2.66	0.64
1:AA:328:C:HO2'	1:AA:329:A:P	2.21	0.64
1:AA:382:A:C2'	1:AA:383:A:O5'	2.45	0.64
1:AA:519:C:C4	1:AA:520:A:N3	2.65	0.64
1:AA:582:U:C4	1:AA:583:A:N7	2.65	0.64
1:AA:890:G:C2'	1:AA:891:U:OP2	2.45	0.64
1:AA:921:U:C2	1:AA:922:G:C8	2.86	0.64
5:AE:101:MET:HB3	5:AE:108:ILE:HG21	1.80	0.64
5:AE:194:PRO:O	5:AE:196:LEU:N	2.30	0.64
5:AE:88:ALA:HB1	5:AE:222:ILE:CD1	2.27	0.64
5:AE:53:ARG:HH21	5:AE:199:TYR:HE2	1.43	0.64
5:AE:72:GLY:HA2	5:AE:165:VAL:CG2	2.27	0.64
5:AE:87:ARG:C	5:AE:89:GLY:H	2.01	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:132:ARG:HG2	6:AF:136:GLN:HE21	1.61	0.64
7:AG:101:LEU:HD12	7:AG:101:LEU:C	2.17	0.64
1:AA:15:G:H1'	8:AH:19:MET:HG2	1.80	0.64
10:AJ:12:LEU:HD22	10:AJ:24:THR:HB	1.79	0.64
10:AJ:37:ASN:CG	10:AJ:38:LEU:H	2.01	0.64
11:AK:20:TYR:CE2	11:AK:75:ARG:HD2	2.33	0.64
1:AA:587:G:OP1	11:AK:92:ARG:NH2	2.30	0.64
1:AA:1117:G:H5'	12:AL:104:ARG:HD3	1.79	0.64
1:AA:1232:U:OP1	12:AL:125:TYR:C	2.35	0.64
12:AL:98:PRO:C	12:AL:100:GLY:H	1.99	0.64
13:AM:13:HIS:HB2	13:AM:68:HIS:HE1	1.61	0.64
19:AS:20:VAL:HG11	19:AS:32:TYR:CD2	2.33	0.64
23:AW:21:LYS:O	23:AW:24:LEU:HB2	1.98	0.64
49:B1:30:LEU:O	49:B1:33:GLN:N	2.31	0.64
50:B2:10:LYS:CE	50:B2:31:LEU:HG	2.27	0.64
51:B3:59:PHE:N	51:B3:62:ARG:CZ	2.61	0.64
51:B3:5:ILE:CD1	51:B3:60:GLN:OE1	2.46	0.64
51:B3:68:ARG:CA	51:B3:68:ARG:HH11	2.11	0.64
25:BA:1518:C:O2	25:BA:1519:G:H1'	1.96	0.64
25:BA:1608:A:C5	25:BA:1611:C:C4	2.86	0.64
25:BA:1785:A:H5''	25:BA:1982:C:C2'	2.27	0.64
25:BA:1838:C:H2'	25:BA:1898:U:C5	2.32	0.64
25:BA:2158:A:HO2'	25:BA:2159:G:P	2.20	0.64
25:BA:2304:G:H4'	31:BG:132:ASN:HD21	1.62	0.64
25:BA:2392:A:C2'	25:BA:2393:A:H5'	2.21	0.64
25:BA:633:A:H4'	25:BA:2404:C:OP1	1.98	0.64
25:BA:248:G:C2	25:BA:2431:U:H5'	2.33	0.64
25:BA:2447:G:N1	25:BA:2452:C:N4	2.46	0.64
25:BA:2749:A:C6	25:BA:2750:A:N7	2.65	0.64
25:BA:370:G:N3	25:BA:424:G:N7	2.46	0.64
25:BA:503:A:H4'	25:BA:504:U:O5'	1.94	0.64
25:BA:603:A:N6	25:BA:624:C:H41	1.93	0.64
27:BC:111:ASP:O	27:BC:136:LEU:HD23	1.97	0.64
27:BC:193:ILE:HD13	27:BC:226:PRO:O	1.97	0.64
27:BC:22:ILE:HD13	27:BC:190:ARG:HH12	1.63	0.64
27:BC:29:VAL:CG1	27:BC:30:LYS:N	2.61	0.64
28:BD:157:ARG:NH1	28:BD:178:PRO:CG	2.55	0.64
28:BD:259:THR:HG21	28:BD:260:ARG:NH1	2.12	0.64
28:BD:5:LYS:HD3	28:BD:29:PRO:HB3	1.78	0.64
25:BA:1658:C:P	29:BE:134:ILE:HB	2.37	0.64
29:BE:58:ARG:HB3	29:BE:63:LEU:HD23	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:31:HIS:CD2	37:BO:14:LYS:NZ	2.65	0.64
31:BG:8:LYS:HD2	31:BG:100:TRP:CD1	2.27	0.64
31:BG:62:LEU:HD23	31:BG:143:GLU:HG3	1.79	0.64
32:BH:10:PRO:HB2	32:BH:12:PRO:HD3	1.79	0.64
32:BH:94:TYR:H	32:BH:95:ARG:NH2	1.96	0.64
40:BR:52:SER:CB	40:BR:69:VAL:HG13	2.27	0.64
43:BU:4:ILE:HA	43:BU:12:TYR:CD2	2.33	0.64
43:BU:4:ILE:O	43:BU:40:LEU:O	2.14	0.64
43:BU:73:SER:HB2	43:BU:75:PHE:HZ	1.63	0.64
44:BV:33:ARG:NE	44:BV:37:ARG:HG2	2.12	0.64
25:BA:1068:G:C6	25:BA:1073:A:N1	2.65	0.64
34:BL:106:GLU:OE2	34:BL:107:ILE:HG13	1.97	0.64
34:BL:10:LEU:HD11	34:BL:57:ILE:CD1	2.24	0.64
1:AA:434:U:H2'	1:AA:435:C:H6	1.61	0.64
1:AA:1148:U:O2'	1:AA:1149:C:H5'	1.98	0.64
1:AA:1405:G:H1'	1:AA:1519:A:C4'	2.27	0.64
1:AA:1428:A:H2'	1:AA:1429:C:H6	1.58	0.64
1:AA:1533:C:C2'	1:AA:1534:A:OP2	2.46	0.64
1:AA:186(B):C:H2'	1:AA:186(C):G:O5'	1.98	0.64
1:AA:225:C:C2'	1:AA:226:G:H5'	2.27	0.64
1:AA:226:G:H21	1:AA:227:G:H1'	1.62	0.64
1:AA:426:G:P	7:AG:45:GLN:HE22	2.19	0.64
1:AA:507:C:N3	1:AA:508:C:N4	2.45	0.64
1:AA:607:A:C4	1:AA:608:A:C8	2.85	0.64
1:AA:892:A:C6	1:AA:907:A:C8	2.85	0.64
3:AD:18:G:H21	3:AD:58:A:H5''	1.63	0.64
5:AE:154:LEU:O	5:AE:156:LYS:N	2.30	0.64
5:AE:164:VAL:HG12	5:AE:186:ALA:CB	2.27	0.64
5:AE:239:VAL:O	5:AE:240:GLN:HG3	1.98	0.64
7:AG:12:CYS:HB3	7:AG:33:MET:SD	2.38	0.64
7:AG:75:PHE:CE1	7:AG:93:PHE:CZ	2.85	0.64
8:AH:144:THR:HB	8:AH:146:ALA:HB3	1.80	0.64
9:AI:2:ARG:CD	9:AI:69:GLU:HG2	2.26	0.64
10:AJ:15:ASP:HB3	10:AJ:20:ASP:H	1.62	0.64
10:AJ:76:ARG:C	10:AJ:156:TRP:CZ2	2.71	0.64
11:AK:10:LEU:HD22	11:AK:135:CYS:SG	2.38	0.64
12:AL:4:TYR:HE1	12:AL:59:PHE:CZ	2.16	0.64
13:AM:30:SER:HB3	13:AM:80:LYS:CG	2.26	0.64
1:AA:1198:G:O2'	13:AM:54:PHE:HE2	1.77	0.64
15:AO:93:LEU:N	15:AO:93:LEU:HD23	2.12	0.64
16:AP:36:LYS:HB3	16:AP:59:TYR:OH	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:45:ARG:HH12	17:AQ:49:HIS:HD2	1.46	0.64
20:AT:53:LEU:HD21	20:AT:85:VAL:HG13	1.80	0.64
49:B1:36:ILE:HG12	49:B1:37:GLY:H	1.62	0.64
50:B2:7:LYS:HE3	50:B2:32:GLN:HA	1.79	0.64
51:B3:42:PHE:CB	51:B3:58:ARG:NH1	2.61	0.64
53:B5:16:CYS:HB3	53:B5:49:HIS:CG	2.32	0.64
53:B5:40:CYS:SG	53:B5:46:HIS:HB2	2.37	0.64
25:BA:594:U:C5'	55:B7:61:LEU:HD13	2.27	0.64
25:BA:1161:C:H1'	43:BU:22:VAL:CG1	2.27	0.64
25:BA:1460:A:H5'	25:BA:1461:G:OP2	1.98	0.64
25:BA:1462:C:H5''	25:BA:1463:C:OP2	1.97	0.64
25:BA:1513:C:C2	25:BA:1514:U:O4	2.51	0.64
25:BA:1821:A:H2'	25:BA:1822:G:C8	2.32	0.64
25:BA:1864:U:H2'	25:BA:1869:G:C5'	2.26	0.64
25:BA:200:U:C5	25:BA:201:C:N1	2.65	0.64
25:BA:2061:G:N2	25:BA:2063:C:C1'	2.61	0.64
25:BA:2246:G:O2'	25:BA:2247:A:C5'	2.46	0.64
25:BA:2423:U:H1'	25:BA:2425:A:C4	2.32	0.64
25:BA:2571:C:O2'	29:BE:146:THR:OG1	2.14	0.64
25:BA:2662:A:C2'	25:BA:2663:G:H5'	2.22	0.64
25:BA:2748:A:N1	25:BA:2757:A:N6	2.45	0.64
25:BA:292:C:H2'	25:BA:293:U:C2	2.33	0.64
25:BA:382:G:H2'	25:BA:383:U:H5'	1.79	0.64
25:BA:416:C:N4	25:BA:417:C:N4	2.45	0.64
25:BA:530:G:O2'	25:BA:531:C:P	2.56	0.64
25:BA:541:C:C2	25:BA:542:C:C5	2.86	0.64
25:BA:704:G:O2'	25:BA:705:A:P	2.55	0.64
25:BA:905:U:N3	25:BA:906:G:C8	2.65	0.64
25:BA:923:C:H6	25:BA:923:C:C5'	2.10	0.64
25:BA:947:G:N2	25:BA:971:C:C2	2.66	0.64
27:BC:61:THR:CB	27:BC:162:GLU:HA	2.28	0.64
27:BC:81:GLU:OE2	27:BC:82:LYS:HD3	1.97	0.64
28:BD:17:THR:C	28:BD:19:ALA:N	2.49	0.64
28:BD:7:LYS:HD3	28:BD:91:ARG:NH2	2.12	0.64
29:BE:114:ALA:HB3	29:BE:118:LYS:HB3	1.79	0.64
25:BA:2512:C:OP1	29:BE:122:PHE:CB	2.45	0.64
30:BF:119:ARG:HD3	30:BF:120:GLU:OE1	1.98	0.64
31:BG:125:PHE:CD2	31:BG:130:ASN:N	2.61	0.64
31:BG:85:GLY:O	31:BG:86:MET:SD	2.55	0.64
31:BG:36:LYS:HD3	31:BG:95:ARG:HD3	1.78	0.64
32:BH:124:GLU:C	32:BH:126:PRO:HD2	2.17	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:97:ARG:HA	35:BM:100:GLU:HB2	1.78	0.64
25:BA:1665:A:C5'	36:BN:66:LYS:HB2	2.26	0.64
38:BP:75:THR:HB	38:BP:77:LYS:CE	2.18	0.64
39:BQ:24:GLN:HB2	39:BQ:44:LEU:CD2	2.28	0.64
40:BR:74:ALA:CB	40:BR:108:GLY:H	2.08	0.64
25:BA:18:C:OP1	42:BT:26:GLY:CA	2.46	0.64
45:BW:36:LYS:HD2	45:BW:54:VAL:O	1.97	0.64
46:BX:1:MET:N	46:BX:33:LYS:HE3	2.11	0.64
46:BX:73:ARG:HA	46:BX:77:PRO:HA	1.80	0.64
33:BK:125:GLU:HG2	33:BK:143:SER:CB	2.28	0.64
33:BK:81:VAL:HG23	33:BK:145:VAL:C	2.17	0.64
1:AA:1038:C:H2'	1:AA:1039:C:C5	2.32	0.64
1:AA:93:U:H2'	1:AA:95:G:H8	1.62	0.64
11:AK:53:VAL:O	11:AK:56:LYS:HB2	1.97	0.64
1:AA:1144:G:N2	1:AA:1146:A:N6	2.46	0.64
1:AA:1357:A:C5	1:AA:1358:U:C4	2.86	0.64
1:AA:1394:A:HO2'	1:AA:1395:C:P	2.20	0.64
1:AA:1468:A:H2'	1:AA:1469:G:O5'	1.96	0.64
1:AA:1483:A:H3'	1:AA:1484:C:H6	1.61	0.64
1:AA:445:G:O2'	1:AA:446:G:H5'	1.98	0.64
1:AA:533:A:C6	1:AA:536:C:C4	2.85	0.64
1:AA:961:U:O2'	1:AA:962:C:C5'	2.34	0.64
5:AE:15:VAL:HG22	5:AE:209:ARG:CD	2.26	0.64
5:AE:53:ARG:NH2	5:AE:199:TYR:HE2	1.96	0.64
7:AG:20:TYR:HA	7:AG:26:CYS:C	2.17	0.64
8:AH:71:LEU:HD23	8:AH:73:ASN:N	2.12	0.64
10:AJ:11:GLN:CD	10:AJ:12:LEU:H	2.01	0.64
1:AA:933:G:P	10:AJ:3:ARG:HG3	2.37	0.64
11:AK:33:GLU:CG	11:AK:59:LEU:HD11	2.26	0.64
12:AL:105:ASP:OD1	12:AL:107:ARG:NH2	2.30	0.64
12:AL:112:LYS:CG	12:AL:117:HIS:HA	2.26	0.64
12:AL:55:ALA:CB	12:AL:58:HIS:ND1	2.61	0.64
13:AM:27:ALA:HB2	13:AM:85:LEU:CG	2.27	0.64
1:AA:521:G:OP2	15:AO:54:LYS:HE2	1.98	0.64
49:B1:1:MET:C	49:B1:3:LYS:N	2.47	0.64
52:B4:4:HIS:CG	52:B4:5:PRO:CD	2.80	0.64
25:BA:1215:G:C2'	25:BA:1216:G:H5'	2.27	0.64
25:BA:1341:U:OP2	25:BA:1397:U:C4	2.50	0.64
25:BA:1472:A:H62	25:BA:1474:C:N4	1.96	0.64
25:BA:1464:C:C4'	25:BA:1528:A:O2'	2.45	0.64
25:BA:1542:G:O2'	25:BA:1543:A:C4	2.51	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1688:U:O4'	25:BA:1701:A:N6	2.31	0.64
25:BA:1799:G:O2'	25:BA:1800:C:C4'	2.45	0.64
25:BA:1858:G:C5	25:BA:1883:G:N1	2.65	0.64
25:BA:2096:U:H2'	25:BA:2097:C:C6	2.32	0.64
25:BA:2210:G:O2'	25:BA:2211:G:P	2.56	0.64
25:BA:2227:A:C6	25:BA:2228:G:C5	2.85	0.64
25:BA:2398:U:H2'	25:BA:2399:G:C8	2.32	0.64
25:BA:1782:C:C2	25:BA:2609:U:C6	2.86	0.64
25:BA:260:G:C6	25:BA:261:G:N7	2.65	0.64
25:BA:2686:G:N3	25:BA:2687:U:C6	2.65	0.64
25:BA:41:C:H2'	25:BA:43:G:O4'	1.98	0.64
25:BA:528:A:OP2	35:BM:114:ARG:NH2	2.28	0.64
25:BA:666:G:O2'	25:BA:667:U:H5'	1.98	0.64
25:BA:848:G:N3	25:BA:933:A:N3	2.46	0.64
25:BA:977:G:C5	25:BA:987:G:C2	2.85	0.64
26:BB:73:A:N6	26:BB:104:A:N9	2.46	0.64
26:BB:37:C:N4	26:BB:44:G:N1	2.43	0.64
26:BB:50:G:H5"	40:BR:61:ASN:HA	1.78	0.64
27:BC:183:GLU:O	27:BC:186:ALA:HB3	1.98	0.64
27:BC:37:PHE:CD1	27:BC:38:ASP:N	2.64	0.64
27:BC:86:ALA:HB2	27:BC:149:ILE:CG1	2.26	0.64
29:BE:11:MET:HE3	29:BE:11:MET:HA	1.78	0.64
29:BE:127:ASP:OD2	29:BE:134:ILE:HG12	1.96	0.64
29:BE:188:VAL:O	29:BE:190:GLY:N	2.30	0.64
29:BE:195:LEU:CD1	29:BE:196:VAL:N	2.60	0.64
30:BF:168:ARG:HD3	30:BF:169:ASN:H	1.60	0.64
31:BG:131:TYR:HB2	31:BG:159:VAL:CG2	2.24	0.64
32:BH:87:LEU:N	32:BH:132:ARG:CB	2.59	0.64
32:BH:150:ALA:O	32:BH:152:ARG:N	2.30	0.64
32:BH:43:VAL:CG1	32:BH:51:ARG:O	2.43	0.64
32:BH:83:TYR:HD2	32:BH:84:SER:H	1.45	0.64
35:BM:120:LEU:HD12	35:BM:120:LEU:C	2.17	0.64
35:BM:95:PRO:O	35:BM:98:VAL:HB	1.98	0.64
36:BN:2:ILE:C	36:BN:3:GLN:NE2	2.51	0.64
37:BO:72:PRO:HA	37:BO:110:TYR:CD1	2.32	0.64
38:BP:25:ASP:CB	38:BP:102:VAL:CG1	2.73	0.64
40:BR:12:PHE:CG	40:BR:13:ARG:N	2.65	0.64
41:BS:92:GLY:C	41:BS:93:ARG:CD	2.66	0.64
42:BT:88:ILE:HG12	43:BU:52:VAL:CB	2.28	0.64
43:BU:6:LYS:HE3	43:BU:12:TYR:O	1.98	0.64
43:BU:23:GLU:N	43:BU:93:GLU:HB3	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:142:G:C4'	45:BW:35:THR:HG21	2.26	0.64
45:BW:40:LYS:HA	45:BW:51:VAL:HG11	1.78	0.64
25:BA:481:G:OP2	46:BX:44:ILE:HA	1.97	0.64
47:BY:127:LYS:HA	47:BY:164:ALA:N	2.08	0.64
47:BY:96:VAL:HG13	47:BY:128:VAL:HG13	1.79	0.64
48:BZ:72:ARG:HB3	48:BZ:75:LEU:CD1	2.23	0.64
34:BL:12:LEU:HD22	34:BL:19:PRO:HG3	1.80	0.64
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.59	0.64
1:AA:1105:A:N3	1:AA:1106:G:C8	2.65	0.64
1:AA:1206:G:H2'	1:AA:1207:G:O4'	1.98	0.64
1:AA:1361:G:N7	1:AA:1362:C:C5	2.65	0.64
1:AA:279:A:C1'	1:AA:281:G:N3	2.57	0.64
1:AA:383:A:C2'	1:AA:384:G:H5'	2.27	0.64
1:AA:41:G:H2'	1:AA:42:G:C8	2.33	0.64
1:AA:475:G:H2'	1:AA:476:G:C8	2.31	0.64
1:AA:545:C:H5''	7:AG:72:GLU:HG2	1.80	0.64
1:AA:589:C:H2'	1:AA:590:C:C5	2.33	0.64
1:AA:619:U:H3	7:AG:135:LEU:HD21	1.61	0.64
1:AA:644:G:H4'	11:AK:92:ARG:NH1	2.11	0.64
2:AC:48:C:H5'	2:AC:49:G:C5'	2.27	0.64
3:AD:34:G:N2	3:AD:35:A:H5''	2.13	0.64
3:AD:38:A:C2'	3:AD:39:U:H5'	2.28	0.64
5:AE:71:VAL:HG22	5:AE:93:VAL:HB	1.79	0.64
7:AG:98:GLU:HG2	7:AG:189:PRO:HG3	1.79	0.64
7:AG:22:LYS:CB	7:AG:26:CYS:HB3	2.23	0.64
7:AG:88:VAL:HG22	8:AH:97:GLY:N	2.11	0.64
9:AI:7:ASN:HD21	9:AI:62:TRP:HD1	1.43	0.64
12:AL:28:VAL:O	12:AL:30:GLY:N	2.31	0.64
19:AS:40:ASP:OD1	19:AS:44:THR:HG22	1.97	0.64
19:AS:73:LEU:C	19:AS:73:LEU:CD1	2.67	0.64
21:AU:60:GLY:O	21:AU:64:ARG:HG3	1.97	0.64
49:B1:25:ARG:HG3	49:B1:25:ARG:HH21	1.61	0.64
49:B1:5:LEU:CD2	49:B1:9:ARG:HE	2.09	0.64
25:BA:1364:G:O6	51:B3:1:MET:N	2.31	0.64
51:B3:58:ARG:C	51:B3:62:ARG:NE	2.51	0.64
51:B3:66:SER:HA	51:B3:69:LYS:HG3	1.80	0.64
53:B5:17:LYS:CE	53:B5:49:HIS:H	2.11	0.64
25:BA:565:C:O2'	25:BA:1253:A:N3	2.30	0.64
25:BA:126:A:OP1	54:B6:47:ARG:NH1	2.27	0.64
25:BA:1314:C:P	25:BA:1332:G:H5'	2.38	0.64
25:BA:1388:G:O2'	25:BA:1525:G:H5'	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1409:C:O2'	25:BA:1410:G:H5'	1.98	0.64
25:BA:1522:G:H2'	25:BA:1523:U:C6	2.32	0.64
25:BA:1523:U:O2	25:BA:1524:G:C8	2.51	0.64
25:BA:1654:A:C2	25:BA:1655:A:C8	2.85	0.64
25:BA:1663:C:C5'	25:BA:1663:C:H6	2.11	0.64
25:BA:2322:A:C2	25:BA:2323:G:O4'	2.51	0.64
25:BA:2654:A:H1'	25:BA:2656:U:C5	2.33	0.64
25:BA:2865:U:C4	25:BA:2866:U:H5	2.16	0.64
25:BA:349:G:OP2	25:BA:349:G:C8	2.50	0.64
25:BA:357:A:C2'	25:BA:358:U:H6	2.10	0.64
25:BA:565:C:C2'	25:BA:565:C:O2	2.42	0.64
25:BA:585:G:O2'	25:BA:586:A:C8	2.50	0.64
25:BA:623:G:C8	37:BO:105:LEU:CD1	2.77	0.64
25:BA:728:G:O4'	25:BA:729:G:C8	2.51	0.64
25:BA:745:G:O5'	25:BA:745:G:C8	2.49	0.64
25:BA:805:G:O2'	25:BA:806:C:OP1	2.15	0.64
25:BA:819:A:O2'	25:BA:820:A:H5'	1.98	0.64
25:BA:879:G:N7	25:BA:899:A:N1	2.45	0.64
25:BA:954:G:N1	25:BA:964:C:C2	2.66	0.64
25:BA:977:G:N1	25:BA:978:G:N2	2.46	0.64
25:BA:989:G:O2'	25:BA:990:A:O5'	2.15	0.64
25:BA:1799:G:H22	28:BD:157:ARG:NH2	1.96	0.64
28:BD:169:GLU:HB3	28:BD:174:ILE:CD1	2.27	0.64
28:BD:183:ARG:CG	28:BD:268:ARG:HB2	2.28	0.64
28:BD:7:LYS:NZ	28:BD:91:ARG:NE	2.44	0.64
28:BD:84:TYR:HA	28:BD:92:ILE:HG23	1.79	0.64
29:BE:111:ARG:N	29:BE:161:GLY:CA	2.61	0.64
25:BA:2632:A:H2	29:BE:61:ARG:HG2	1.62	0.64
30:BF:81:PRO:C	30:BF:83:PHE:H	2.01	0.64
31:BG:125:PHE:CE2	31:BG:130:ASN:HB2	2.33	0.64
35:BM:6:PRO:CA	35:BM:41:ASP:CB	2.54	0.64
36:BN:31:LYS:C	36:BN:32:TYR:CG	2.71	0.64
37:BO:137:LYS:N	37:BO:137:LYS:HZ2	1.96	0.64
37:BO:19:VAL:O	37:BO:21:ARG:HG3	1.98	0.64
38:BP:99:PRO:O	38:BP:100:GLY:C	2.35	0.64
38:BP:97:VAL:HG11	38:BP:103:MET:HE1	1.80	0.64
39:BQ:96:ARG:O	39:BQ:114:VAL:HA	1.97	0.64
40:BR:52:SER:OG	40:BR:69:VAL:HG13	1.97	0.64
41:BS:4:GLY:O	41:BS:8:LYS:HB2	1.98	0.64
44:BV:78:GLU:CG	44:BV:99:ARG:HB3	2.28	0.64
46:BX:76:CYS:HB2	46:BX:100:ALA:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BZ:44:ARG:HH21	48:BZ:77:ARG:CZ	2.11	0.64
25:BA:1095:A:C8	25:BA:1096:A:H8	2.16	0.64
34:BL:24:GLY:HA2	34:BL:34:ILE:HG23	1.80	0.64
1:AA:89:U:O2'	1:AA:90:C:H5'	1.98	0.64
1:AA:1265:G:C2'	1:AA:1266:G:H5'	2.20	0.64
1:AA:1377:A:H8	1:AA:1377:A:O5'	1.80	0.64
1:AA:1377:A:HO2'	10:AJ:2:ALA:N	1.96	0.64
1:AA:1515:C:H2'	1:AA:1516:G:H8	1.63	0.64
1:AA:1530:G:N1	1:AA:1531:A:C2	2.66	0.64
1:AA:246:A:O2'	1:AA:247:G:O4'	2.04	0.64
1:AA:123:C:OP1	1:AA:312:C:H5'	1.98	0.64
1:AA:50:A:H62	1:AA:361:G:H4'	1.63	0.64
1:AA:572:A:O2'	1:AA:916:G:O2'	2.12	0.64
1:AA:675:A:H2'	1:AA:676:A:O4'	1.98	0.64
1:AA:818:G:C3'	1:AA:819:A:C5'	2.75	0.64
1:AA:958:A:H2'	1:AA:959:A:O4'	1.98	0.64
1:AA:959:A:C3'	1:AA:960:U:H5''	2.24	0.64
5:AE:23:ARG:O	5:AE:24:TRP:CD1	2.51	0.64
6:AF:26:LYS:N	6:AF:26:LYS:HD3	2.13	0.64
6:AF:39:ILE:HG21	6:AF:57:ILE:HD13	1.80	0.64
8:AH:72:GLN:O	8:AH:73:ASN:HB2	1.97	0.64
9:AI:1:MET:HE2	9:AI:68:PRO:HG3	1.79	0.64
9:AI:52:ILE:CG2	9:AI:53:ALA:N	2.61	0.64
10:AJ:75:VAL:HA	10:AJ:89:MET:HE3	1.79	0.64
8:AH:78:HIS:HB3	11:AK:104:ARG:HB3	1.79	0.64
13:AM:30:SER:HB3	13:AM:80:LYS:HG3	1.78	0.64
1:AA:675:A:H1'	14:AN:116:HIS:ND1	2.13	0.64
17:AQ:9:LYS:HD3	17:AQ:10:ALA:N	2.13	0.64
21:AU:21:LYS:NZ	21:AU:23:LYS:HB2	2.13	0.64
23:AW:91:LEU:O	23:AW:93:GLU:N	2.27	0.64
50:B2:23:LEU:CA	50:B2:28:LEU:HD12	2.28	0.64
51:B3:39:CYS:O	51:B3:40:HIS:ND1	2.31	0.64
52:B4:43:HIS:O	52:B4:44:THR:HG23	1.98	0.64
53:B5:52:VAL:HG12	53:B5:53:LYS:N	2.13	0.64
54:B6:18:PHE:O	54:B6:19:ARG:C	2.36	0.64
25:BA:1021:A:N1	25:BA:1023:U:C2	2.66	0.64
25:BA:1113:U:H2'	25:BA:1114:G:C8	2.32	0.64
25:BA:1296:G:H2'	25:BA:1297:C:C6	2.33	0.64
25:BA:1301:A:C2'	25:BA:1302:A:O5'	2.46	0.64
25:BA:1316:U:O2'	25:BA:1317:A:H5'	1.98	0.64
25:BA:1369:G:C2'	25:BA:1370:C:H5'	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:141:A:H2'	25:BA:141(A):C:H5'	1.80	0.64
25:BA:699:A:H1'	25:BA:1634:A:C8	2.32	0.64
25:BA:1634:A:H2'	25:BA:1635:G:OP1	1.98	0.64
25:BA:1786:A:H4'	25:BA:1938:A:H61	1.61	0.64
25:BA:1796:U:H4'	28:BD:253:GLN:O	1.98	0.64
25:BA:1857:G:C5	25:BA:1858:G:O6	2.51	0.64
25:BA:1999:C:OP1	39:BQ:2:ARG:HB2	1.97	0.64
25:BA:2000:G:H2'	25:BA:2001:A:H8	1.63	0.64
25:BA:2319:G:C4'	25:BA:2320:A:OP1	2.40	0.64
25:BA:1782:C:H5''	25:BA:2609:U:C4	2.32	0.64
25:BA:2691:C:O2'	25:BA:2692:C:H5'	1.98	0.64
25:BA:2694:G:H2'	25:BA:2695:C:O5'	1.98	0.64
25:BA:270(F):U:C4	25:BA:270(G):C:C5	2.86	0.64
25:BA:273:G:C4	25:BA:273(A):G:N7	2.66	0.64
25:BA:2815:C:H2'	25:BA:2816:C:H6	1.63	0.64
25:BA:586:A:N1	25:BA:809:G:O2'	2.31	0.64
25:BA:605:C:H6	25:BA:605:C:OP2	1.80	0.64
25:BA:653:A:H3'	25:BA:654:A:O3'	1.96	0.64
25:BA:656:G:H2'	25:BA:657:U:H6	1.60	0.64
25:BA:674:G:O2'	30:BF:74:ARG:NH2	2.29	0.64
25:BA:675:A:H2'	25:BA:676:A:N3	2.13	0.64
25:BA:715:G:H2'	25:BA:716:A:O5'	1.97	0.64
25:BA:801:G:N7	30:BF:54:ARG:HG2	2.12	0.64
25:BA:823:G:C4	25:BA:824:A:N7	2.66	0.64
26:BB:15:A:H1'	26:BB:109:G:C8	2.33	0.64
26:BB:30:C:H2'	26:BB:31:C:C5'	2.25	0.64
28:BD:159:ALA:HB1	28:BD:202:LYS:HE3	1.80	0.64
29:BE:170:LEU:HD12	29:BE:186:GLY:HA3	1.80	0.64
29:BE:53:PRO:HG3	29:BE:75:VAL:HG21	1.78	0.64
25:BA:2636:U:H4'	29:BE:79:ARG:HH21	1.62	0.64
29:BE:92:THR:C	29:BE:94:GLU:N	2.51	0.64
30:BF:100:THR:O	30:BF:102:PRO:HD3	1.98	0.64
31:BG:47:LYS:HD3	31:BG:72:ARG:O	1.97	0.64
32:BH:163:TYR:HD2	32:BH:169:VAL:HG11	1.58	0.64
32:BH:58:GLU:O	32:BH:62:LYS:HG2	1.98	0.64
36:BN:11:ALA:CB	36:BN:97:ARG:NH1	2.53	0.64
36:BN:18:LYS:HB3	36:BN:45:GLU:OE2	1.98	0.64
37:BO:35:HIS:O	37:BO:36:LYS:CE	2.46	0.64
38:BP:75:THR:HA	38:BP:91:GLU:CD	2.17	0.64
41:BS:112:ARG:O	41:BS:115:ARG:HB2	1.98	0.64
36:BN:122:LEU:CA	41:BS:74:ARG:HH12	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:64:HIS:HA	43:BU:97:LYS:HD2	1.79	0.64
44:BV:12:ILE:O	44:BV:99:ARG:O	2.16	0.64
45:BW:25:LYS:HG3	45:BW:82:GLN:HB2	1.77	0.64
47:BY:74:VAL:HA	47:BY:85:HIS:O	1.98	0.64
34:BL:105:LEU:O	34:BL:109:LYS:HG3	1.98	0.64
26:BB:4:C:C2	26:BB:117:G:N2	2.66	0.64
1:AA:1345:U:H5'	1:AA:1346:A:OP1	1.99	0.64
1:AA:1405:G:N2	1:AA:1517:G:H22	1.96	0.64
1:AA:1413:A:C2	1:AA:1414:U:N1	2.66	0.64
1:AA:1502:A:N1	1:AA:1504:G:C2	2.66	0.64
1:AA:1502:A:H5''	1:AA:1503:A:OP2	1.98	0.64
1:AA:1509:C:H2'	1:AA:1510:U:H6	1.58	0.64
1:AA:340:U:H2'	1:AA:341:C:H6	1.63	0.64
1:AA:37:U:O2	1:AA:37:U:H2'	1.98	0.64
1:AA:598:U:O2'	11:AK:94:TYR:HB3	1.98	0.64
1:AA:763:G:O2'	1:AA:764:C:O5'	2.16	0.64
1:AA:770:C:C1'	1:AA:900:A:C2	2.71	0.64
5:AE:61:LEU:N	5:AE:64:ARG:NH1	2.46	0.64
7:AG:122:ARG:HG2	7:AG:134:ASP:O	1.97	0.64
8:AH:84:PHE:CD1	8:AH:134:ALA:HA	2.33	0.64
12:AL:47:LEU:CD2	12:AL:50:LEU:HD13	2.25	0.64
15:AO:58:VAL:O	15:AO:65:GLU:HA	1.97	0.64
15:AO:59:ARG:CA	15:AO:64:TYR:O	2.40	0.64
16:AP:108:ARG:NH1	16:AP:111:LYS:HB3	2.13	0.64
16:AP:114:ARG:HG2	16:AP:114:ARG:HH11	1.63	0.64
16:AP:58:GLU:O	16:AP:61:GLU:HB2	1.98	0.64
1:AA:391:G:P	19:AS:28:ARG:HH21	2.20	0.64
21:AU:21:LYS:O	21:AU:22:VAL:HG13	1.97	0.64
21:AU:40:LEU:N	21:AU:40:LEU:HD23	2.12	0.64
22:AV:63:THR:O	22:AV:66:MET:HG2	1.98	0.64
24:AX:3:LYS:HB3	24:AX:14:TRP:HB3	1.78	0.64
25:BA:75:G:C4'	49:B1:50:ARG:HH11	2.07	0.64
49:B1:56:LEU:N	49:B1:56:LEU:HD13	2.13	0.64
51:B3:38:LYS:HE3	51:B3:40:HIS:HB2	1.79	0.64
55:B7:44:LYS:HG3	55:B7:44:LYS:O	1.98	0.64
25:BA:108:U:C2	25:BA:109:G:C8	2.85	0.64
25:BA:1139:G:O2'	25:BA:1142(A):A:H2	1.80	0.64
25:BA:1005:C:C6	25:BA:1142(A):A:O2'	2.52	0.64
25:BA:1176:G:C2'	25:BA:1177:A:H5'	2.25	0.64
25:BA:1181:C:N4	25:BA:1182:A:N6	2.46	0.64
25:BA:1313:U:O5'	25:BA:1313:U:C6	2.50	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1498:C:H6	25:BA:1576:U:O4'	1.80	0.64
25:BA:2004:G:H2'	25:BA:2005:A:H8	1.60	0.64
25:BA:2060:A:O2'	25:BA:2061:G:OP2	2.16	0.64
25:BA:2210:G:O6	28:BD:150:LYS:HA	1.98	0.64
25:BA:239:U:O2'	25:BA:240:G:H5'	1.97	0.64
25:BA:2484:G:H1'	38:BP:124:LYS:CD	2.18	0.64
25:BA:242:G:C2'	25:BA:254:G:H1	2.10	0.64
25:BA:2620:C:O4'	29:BE:156:MET:HG2	1.97	0.64
25:BA:2711:A:P	25:BA:2712(A):A:OP2	2.56	0.64
25:BA:2770:G:H2'	25:BA:2771:C:H5'	1.79	0.64
25:BA:2043:C:N4	25:BA:2777:G:C2	2.66	0.64
25:BA:2799:A:H5''	25:BA:2801:A:OP2	1.98	0.64
25:BA:459:U:O2'	25:BA:460:A:H8	1.81	0.64
25:BA:562:U:O2	25:BA:562:U:H2'	1.96	0.64
25:BA:601:C:O4'	30:BF:104:LYS:NZ	2.26	0.64
25:BA:612:G:H2'	25:BA:615:G:H2'	1.80	0.64
25:BA:751:A:C5'	44:BV:90:ARG:CZ	2.73	0.64
25:BA:801:G:O2'	25:BA:802:A:OP1	2.16	0.64
27:BC:89:ALA:HB1	27:BC:154:ARG:HG3	1.79	0.64
28:BD:28:GLU:N	28:BD:29:PRO:CD	2.61	0.64
29:BE:102:VAL:HG22	29:BE:103:ASP:N	2.12	0.64
29:BE:49:LEU:HA	29:BE:76:ARG:O	1.98	0.64
29:BE:49:LEU:CD1	29:BE:74:PRO:HB2	2.28	0.64
29:BE:47:VAL:HG12	29:BE:77:ILE:HD11	1.80	0.64
29:BE:92:THR:N	29:BE:95:ILE:HD13	2.13	0.64
30:BF:164:ARG:C	30:BF:164:ARG:HD2	2.18	0.64
30:BF:205:ARG:O	30:BF:208:GLY:N	2.30	0.64
25:BA:674:G:C4'	30:BF:74:ARG:NH1	2.58	0.64
31:BG:12:TYR:CD1	31:BG:13:GLU:N	2.66	0.64
32:BH:97:ARG:HA	32:BH:125:VAL:HG11	1.79	0.64
32:BH:157:TYR:CD1	32:BH:158:HIS:HB2	2.33	0.64
35:BM:74:ARG:CG	35:BM:76:SER:OG	2.46	0.64
38:BP:48:GLU:O	38:BP:51:ARG:N	2.31	0.64
39:BQ:97:VAL:HG22	39:BQ:114:VAL:CG2	2.28	0.64
39:BQ:16:HIS:O	39:BQ:19:ALA:HB3	1.97	0.64
40:BR:29:PHE:CE1	40:BR:34:HIS:CE1	2.85	0.64
41:BS:101:PHE:HB3	41:BS:103:ARG:NH1	2.13	0.64
41:BS:7:ILE:HA	41:BS:10:VAL:HG23	1.80	0.64
41:BS:18:ASP:O	41:BS:81:PRO:HA	1.98	0.64
42:BT:93:LYS:HA	42:BT:93:LYS:NZ	2.13	0.64
44:BV:15:ARG:O	44:BV:18:ARG:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:495:G:H4'	44:BV:4:LYS:HG2	1.80	0.64
45:BW:33:LYS:CA	45:BW:33:LYS:HZ2	2.11	0.64
45:BW:92:LEU:HA	45:BW:95:LEU:HD12	1.80	0.64
48:BZ:11:ARG:NH1	48:BZ:11:ARG:HG2	2.13	0.64
33:BK:128:LEU:HD22	33:BK:129:THR:H	1.63	0.64
33:BK:131:LYS:HD2	33:BK:131:LYS:N	2.10	0.64
33:BK:72:LEU:HB2	33:BK:138:ILE:CD1	2.27	0.64
34:BL:103:GLN:HA	34:BL:106:GLU:CD	2.17	0.64
34:BL:79:ARG:HD3	34:BL:134:MET:CG	2.20	0.64
34:BL:79:ARG:O	34:BL:82:ALA:HB3	1.98	0.64
5:AE:230:VAL:HG12	5:AE:231:GLU:N	2.11	0.64
33:BK:133:HIS:O	33:BK:136:VAL:O	2.15	0.64
25:BA:276:A:H2'	25:BA:276:A:N3	2.13	0.64
1:AA:1053:G:H4'	1:AA:1054:C:O3'	1.97	0.63
1:AA:1185:G:O2'	1:AA:1186:G:H5'	1.98	0.63
1:AA:1227:A:O2'	16:AP:115:LYS:NZ	2.21	0.63
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.63	0.63
1:AA:197:A:H2'	1:AA:198:G:OP2	1.98	0.63
1:AA:308:C:H5'	1:AA:308:C:C6	2.31	0.63
1:AA:380:G:H21	1:AA:382:A:H3'	1.60	0.63
1:AA:585:G:O2'	1:AA:586:C:H5'	1.97	0.63
1:AA:827:U:H3	1:AA:872:A:H61	1.45	0.63
5:AE:42:ILE:HG12	5:AE:43:ASP:H	1.63	0.63
6:AF:179:ARG:O	6:AF:206:GLU:HG3	1.98	0.63
7:AG:18:LYS:HD3	7:AG:20:TYR:CE2	2.32	0.63
7:AG:19:LEU:C	7:AG:21:LEU:N	2.49	0.63
8:AH:124:GLY:O	8:AH:126:ARG:N	2.31	0.63
8:AH:26:PHE:CD1	8:AH:26:PHE:N	2.63	0.63
8:AH:65:ASN:O	8:AH:66:MET:HG2	1.98	0.63
9:AI:5:GLU:HB2	9:AI:62:TRP:HE1	1.63	0.63
11:AK:103:VAL:HB	11:AK:108:GLY:C	2.17	0.63
11:AK:18:ARG:HH12	11:AK:78:GLN:NE2	1.95	0.63
15:AO:41:ARG:HB3	15:AO:41:ARG:HH11	1.61	0.63
15:AO:27:LEU:HD22	15:AO:60:LEU:HD21	1.80	0.63
16:AP:13:LYS:HA	16:AP:44:ARG:NE	2.12	0.63
19:AS:14:ASN:HB2	19:AS:16:HIS:HE1	1.64	0.63
20:AT:21:VAL:HG23	20:AT:42:TYR:O	1.97	0.63
23:AW:78:ALA:O	23:AW:79:ARG:C	2.37	0.63
25:BA:1020:A:H2	25:BA:1140:C:H2'	1.63	0.63
25:BA:1204:A:OP2	25:BA:1204:A:C1'	2.46	0.63
25:BA:1204:A:H2	30:BF:188:ARG:O	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1341:U:C2'	25:BA:1342:A:OP1	2.46	0.63
25:BA:139:G:O6	25:BA:1595:G:O2'	2.13	0.63
25:BA:1679:U:O4	25:BA:1764:G:H5''	1.98	0.63
25:BA:197:A:H8	25:BA:2068:U:H3	1.44	0.63
25:BA:2033:A:H8	25:BA:2033:A:OP2	1.80	0.63
25:BA:213:A:H2'	25:BA:214:G:O4'	1.98	0.63
25:BA:2304:G:N2	31:BG:156:ASP:OD1	2.31	0.63
25:BA:2306:C:H5	25:BA:2311:A:N1	1.96	0.63
25:BA:2620:C:P	29:BE:152:LYS:O	2.57	0.63
25:BA:2655:G:O4'	25:BA:2655:G:OP2	2.16	0.63
25:BA:270(S):G:C2	25:BA:270(T):G:N7	2.67	0.63
25:BA:2757:A:N7	25:BA:2758:A:H8	1.96	0.63
25:BA:2781:A:H5'	25:BA:2781:A:C8	2.26	0.63
25:BA:299:A:C2	25:BA:322:A:N7	2.66	0.63
25:BA:609:A:C8	25:BA:609(A):G:N7	2.65	0.63
25:BA:643:A:O2'	25:BA:644:A:H8	1.80	0.63
25:BA:705:A:N6	25:BA:727:A:H1'	2.13	0.63
25:BA:869:G:C3'	25:BA:870:A:H5''	2.27	0.63
25:BA:969:U:C2	25:BA:970:C:C6	2.86	0.63
27:BC:26:ALA:CB	27:BC:185:LEU:HB2	2.28	0.63
28:BD:159:ALA:HB3	28:BD:202:LYS:NZ	2.13	0.63
28:BD:229:VAL:HG13	28:BD:230:ASP:N	2.12	0.63
29:BE:30:PRO:HB2	29:BE:48:GLN:HB3	1.79	0.63
30:BF:146:ALA:O	30:BF:148:LEU:HD22	1.99	0.63
30:BF:158:THR:HG22	30:BF:160:ASN:H	1.61	0.63
30:BF:168:ARG:HD2	30:BF:169:ASN:H	1.62	0.63
30:BF:30:PRO:HA	30:BF:33:LEU:HD21	1.80	0.63
30:BF:41:LEU:O	30:BF:44:ARG:CG	2.46	0.63
31:BG:19:LEU:HA	31:BG:22:ARG:CG	2.28	0.63
31:BG:20:ILE:HG22	31:BG:21:ARG:N	2.14	0.63
35:BM:126:PRO:HG2	35:BM:129:PRO:HD3	1.80	0.63
35:BM:35:ARG:CD	35:BM:48:MET:HE1	2.28	0.63
36:BN:103:ALA:HA	36:BN:106:LEU:CD2	2.27	0.63
36:BN:31:LYS:HD3	36:BN:32:TYR:OH	1.97	0.63
36:BN:86:ILE:O	36:BN:86:ILE:HG22	1.98	0.63
37:BO:80:TYR:OH	37:BO:100:LEU:HD21	1.97	0.63
25:BA:2406:U:O2'	37:BO:67:MET:HB3	1.97	0.63
30:BF:34:TRP:CE3	37:BO:8:PRO:HB2	2.33	0.63
38:BP:93:TYR:O	38:BP:94:VAL:HG12	1.98	0.63
39:BQ:65:LEU:HD23	39:BQ:65:LEU:C	2.17	0.63
41:BS:17:THR:HG21	41:BS:20:PRO:CA	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:122:LEU:HG	41:BS:71:GLY:C	2.18	0.63
45:BW:50:LYS:HG3	45:BW:85:PRO:HD3	1.79	0.63
47:BY:48:PHE:CZ	47:BY:86:VAL:HG11	2.33	0.63
47:BY:9:TYR:CD2	47:BY:14:LYS:HE2	2.33	0.63
33:BK:76:THR:C	33:BK:77:LEU:HD23	2.17	0.63
34:BL:108:ALA:HB2	34:BL:127:ILE:CD1	2.27	0.63
34:BL:12:LEU:CD2	34:BL:22:PRO:HB2	2.28	0.63
1:AA:1400:C:H6	1:AA:1400:C:OP1	1.81	0.63
1:AA:259:G:N2	1:AA:260:G:N3	2.46	0.63
1:AA:130:A:C4	1:AA:264:U:H1'	2.33	0.63
1:AA:301:G:N2	1:AA:302:G:C1'	2.61	0.63
1:AA:823:G:N2	11:AK:1:MET:H2	1.95	0.63
3:AD:73:A:C2	3:AD:74:C:O4'	2.52	0.63
5:AE:139:LYS:O	5:AE:143:GLU:HB2	1.99	0.63
5:AE:17:PHE:CA	5:AE:42:ILE:HG22	2.28	0.63
6:AF:12:LEU:HD21	6:AF:18:TRP:HH2	1.64	0.63
7:AG:58:LEU:HA	7:AG:206:PHE:CD1	2.33	0.63
13:AM:82:ILE:O	13:AM:86:MET:HB3	1.98	0.63
14:AN:79:SER:HA	14:AN:104:GLN:HB3	1.80	0.63
15:AO:86:ARG:HE	15:AO:99:HIS:CE1	2.16	0.63
17:AQ:41:ARG:O	17:AQ:45:ARG:HG2	1.97	0.63
19:AS:7:ALA:HB3	19:AS:18:ARG:HB2	1.80	0.63
20:AT:88:TYR:HA	20:AT:91:ARG:NH2	2.13	0.63
21:AU:36:ASN:HB3	21:AU:40:LEU:HG	1.80	0.63
23:AW:14:LYS:O	23:AW:15:ARG:C	2.36	0.63
51:B3:42:PHE:HB2	51:B3:58:ARG:HH12	1.64	0.63
51:B3:64:GLY:O	51:B3:68:ARG:NH1	2.31	0.63
25:BA:1008:C:O5'	25:BA:1008:C:H6	1.80	0.63
25:BA:125:G:N2	54:B6:10:ARG:O	2.31	0.63
25:BA:1414:G:C6	25:BA:1415:U:C4	2.86	0.63
25:BA:1419:A:H2'	25:BA:1420:U:H1'	1.79	0.63
25:BA:1423:G:N3	25:BA:1424:G:C8	2.67	0.63
25:BA:1458:C:H4'	25:BA:1459:G:C4	2.34	0.63
25:BA:1471:A:C4	25:BA:1521:G:N2	2.66	0.63
25:BA:1654:A:N3	25:BA:1654:A:H2'	2.13	0.63
25:BA:1665:A:C2	25:BA:1666:G:N9	2.66	0.63
25:BA:1762:A:C5'	25:BA:1763:G:OP2	2.45	0.63
25:BA:1785:A:C2'	25:BA:1786:A:N7	2.58	0.63
25:BA:1791:A:P	28:BD:213:ARG:HD3	2.38	0.63
25:BA:1827:C:C2'	25:BA:1828:G:H5'	2.28	0.63
25:BA:2033:A:OP2	25:BA:2033:A:C8	2.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2577:A:H2	52:B4:5:PRO:CB	2.06	0.63
25:BA:269:U:N3	25:BA:270:A:N6	2.42	0.63
25:BA:270(V):G:C4	25:BA:270(W):G:N7	2.66	0.63
25:BA:2715:C:H2'	25:BA:2716:U:C6	2.33	0.63
25:BA:2737:G:O2'	25:BA:2738:A:H5'	1.98	0.63
25:BA:2783:G:N2	25:BA:2784:C:C2	2.66	0.63
25:BA:278:A:N7	25:BA:359:A:C2	2.62	0.63
25:BA:2843:G:H2'	25:BA:2844:G:H8	1.63	0.63
25:BA:412:A:N3	25:BA:413:C:O4'	2.31	0.63
25:BA:612:G:C4'	25:BA:616:A:H61	2.07	0.63
25:BA:635:C:H2'	25:BA:636:G:O4'	1.98	0.63
25:BA:637:A:N3	25:BA:651:G:H4'	2.12	0.63
25:BA:768:G:H2'	25:BA:769:G:H8	1.63	0.63
25:BA:804:A:C5'	25:BA:805:G:OP1	2.44	0.63
25:BA:853:G:H2'	25:BA:854:G:C8	2.31	0.63
25:BA:8:A:H2'	25:BA:9:U:H6	1.62	0.63
27:BC:26:ALA:O	27:BC:30:LYS:HG3	1.98	0.63
28:BD:105:ILE:CD1	28:BD:106:ILE:HG13	2.28	0.63
28:BD:69:ARG:HH21	28:BD:130:ALA:HB2	1.61	0.63
25:BA:1971:A:H1'	28:BD:240:ALA:HB2	1.80	0.63
29:BE:51:PHE:CD1	29:BE:76:ARG:HG2	2.33	0.63
29:BE:59:VAL:O	29:BE:63:LEU:HG	1.98	0.63
30:BF:118:ALA:C	30:BF:122:LYS:HB2	2.18	0.63
16:AP:7:VAL:HG13	31:BG:114:ILE:CG1	2.28	0.63
31:BG:56:ALA:HB1	31:BG:68:PRO:HG2	1.80	0.63
33:BK:7:GLU:HB2	33:BK:35:LEU:HD12	1.81	0.63
35:BM:23:LEU:CD1	35:BM:62:VAL:HA	2.28	0.63
35:BM:34:LEU:HD23	35:BM:116:LEU:CD2	2.28	0.63
36:BN:18:LYS:NZ	36:BN:44:LYS:CD	2.60	0.63
36:BN:66:LYS:C	36:BN:67:LYS:HG2	2.19	0.63
40:BR:11:LYS:O	40:BR:14:VAL:HB	1.98	0.63
41:BS:17:THR:HG23	41:BS:22:PHE:HE2	1.63	0.63
41:BS:53:ARG:CG	41:BS:65:LYS:O	2.46	0.63
42:BT:15:LYS:HA	42:BT:18:LEU:HG	1.78	0.63
43:BU:18:LEU:HD23	43:BU:18:LEU:H	1.61	0.63
42:BT:88:ILE:CG2	43:BU:55:ALA:HB3	2.28	0.63
44:BV:34:ASN:HD22	44:BV:34:ASN:N	1.95	0.63
45:BW:70:LEU:HD23	45:BW:71:GLY:N	2.13	0.63
46:BX:96:ILE:HB	46:BX:102:CYS:O	1.98	0.63
46:BX:53:PRO:O	46:BX:56:PRO:HB3	1.97	0.63
34:BL:20:ALA:HB3	34:BL:21:PRO:CD	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1231:G:H2'	1:AA:1232:U:C6	2.34	0.63
1:AA:1248:A:C2	1:AA:1249:C:N3	2.66	0.63
1:AA:272:C:H2'	1:AA:273:A:H8	1.61	0.63
1:AA:389:A:C6	1:AA:390:C:H1'	2.34	0.63
1:AA:676:A:C4	1:AA:677:U:C5	2.86	0.63
1:AA:777:A:C4	1:AA:778:G:C8	2.87	0.63
1:AA:934:C:N4	1:AA:939:G:N1	2.46	0.63
2:AC:14:A:N6	2:AC:15:G:O6	2.31	0.63
5:AE:167:PRO:HG2	5:AE:168:THR:H	1.62	0.63
5:AE:31:TYR:CE2	5:AE:200:ILE:CG2	2.80	0.63
5:AE:87:ARG:NH2	5:AE:233:SER:OG	2.32	0.63
7:AG:94:LEU:O	7:AG:97:LEU:HB2	1.99	0.63
10:AJ:46:ALA:HA	10:AJ:49:ILE:CD1	2.18	0.63
11:AK:82:HIS:O	11:AK:137:VAL:HG13	1.97	0.63
11:AK:34:GLU:HG2	11:AK:118:VAL:CG2	2.29	0.63
11:AK:46:LYS:HD2	11:AK:63:LEU:O	1.98	0.63
12:AL:103:THR:HG23	12:AL:104:ARG:N	2.13	0.63
13:AM:16:LEU:HD13	13:AM:94:VAL:HG21	1.79	0.63
16:AP:59:TYR:CZ	16:AP:63:THR:HG21	2.33	0.63
12:AL:111:ARG:HD2	17:AQ:61:TRP:HE1	1.63	0.63
18:AR:36:ILE:O	18:AR:40:SER:OG	2.16	0.63
18:AR:71:GLN:N	18:AR:78:TYR:HD1	1.96	0.63
21:AU:44:LEU:CG	21:AU:45:SER:N	2.52	0.63
23:AW:14:LYS:O	23:AW:18:GLN:HG2	1.98	0.63
23:AW:88:VAL:O	23:AW:92:LEU:HD12	1.98	0.63
53:B5:38:LYS:O	53:B5:49:HIS:CB	2.44	0.63
55:B7:25:MET:O	55:B7:27:THR:HG23	1.99	0.63
25:BA:1196:C:O4'	25:BA:1226:G:C2	2.51	0.63
25:BA:1238:G:N2	25:BA:1239:G:H1'	2.12	0.63
25:BA:1322:A:C2'	25:BA:1323:U:O5'	2.47	0.63
25:BA:1324:G:C2	25:BA:1328:G:N2	2.66	0.63
25:BA:1348:G:C2'	25:BA:1349:A:O5'	2.46	0.63
25:BA:1418:G:OP1	25:BA:1588:C:C4'	2.46	0.63
25:BA:1557:C:C2	25:BA:1558:A:N7	2.66	0.63
25:BA:1664:A:C8	25:BA:1664:A:OP2	2.51	0.63
25:BA:1672:C:O2'	25:BA:1673:U:OP1	2.12	0.63
25:BA:1695:G:H1'	28:BD:15:PHE:HB3	1.79	0.63
25:BA:739:G:C2'	25:BA:1784:A:N6	2.61	0.63
25:BA:2015:A:H62	52:B4:6:VAL:HG23	1.63	0.63
25:BA:20:C:O2'	25:BA:21:A:C5'	2.45	0.63
25:BA:2244:U:O2'	25:BA:2245:U:OP1	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2246:G:O2'	25:BA:2247:A:O5'	2.16	0.63
25:BA:2306:C:H41	25:BA:2311:A:H2	1.46	0.63
25:BA:2385:C:O2'	25:BA:2386:C:O5'	2.15	0.63
25:BA:2282:G:H22	25:BA:2427:C:H42	1.45	0.63
25:BA:2453:A:O2'	25:BA:2454:G:C5'	2.46	0.63
25:BA:2585:U:O4'	25:BA:2585:U:OP1	2.16	0.63
25:BA:2652:C:H2'	25:BA:2653:U:C6	2.34	0.63
25:BA:2696:U:H2'	25:BA:2697:G:C8	2.32	0.63
25:BA:2713:A:H3'	25:BA:2714:G:H5'	1.80	0.63
25:BA:273(E):U:C6	25:BA:363(B):G:N2	2.67	0.63
25:BA:478:A:N1	25:BA:480:A:C4	2.66	0.63
25:BA:495:G:H5''	44:BV:4:LYS:CG	2.29	0.63
25:BA:700:G:O6	25:BA:733:G:N2	2.32	0.63
25:BA:722:A:O2'	25:BA:723:G:C5'	2.47	0.63
25:BA:994:C:H3'	42:BT:54:LYS:HZ3	1.63	0.63
26:BB:33:G:N3	26:BB:33:G:H2'	2.12	0.63
26:BB:75:G:N3	26:BB:75:G:H2'	2.13	0.63
27:BC:130:ILE:CD1	27:BC:130:ILE:H	2.12	0.63
27:BC:138:PRO:HB3	27:BC:144:THR:O	1.97	0.63
28:BD:161:THR:CG2	28:BD:195:ALA:HB1	2.28	0.63
29:BE:120:TRP:C	29:BE:120:TRP:CD1	2.72	0.63
25:BA:2052:G:O5'	29:BE:141:ILE:HD12	1.97	0.63
30:BF:135:LYS:O	30:BF:138:GLU:HG2	1.97	0.63
31:BG:57:ALA:HA	31:BG:67:LYS:CA	2.28	0.63
32:BH:43:VAL:HG13	32:BH:51:ARG:C	2.18	0.63
32:BH:7:LEU:HA	32:BH:52:VAL:CG1	2.27	0.63
33:BK:43:ASN:N	33:BK:43:ASN:ND2	2.46	0.63
35:BM:31:ALA:HB2	35:BM:106:MET:HE1	1.80	0.63
35:BM:75:TYR:O	35:BM:76:SER:O	2.15	0.63
40:BR:49:VAL:CG2	40:BR:80:LEU:HG	2.28	0.63
42:BT:56:ASP:O	42:BT:60:LEU:HD12	1.98	0.63
42:BT:89:GLU:CB	43:BU:52:VAL:N	2.60	0.63
44:BV:94:ASP:N	44:BV:94:ASP:OD2	2.31	0.63
25:BA:896:A:OP1	47:BY:146:ILE:HG22	1.98	0.63
47:BY:152:ALA:HA	47:BY:155:LEU:CD1	2.28	0.63
47:BY:4:ARG:NH2	47:BY:88:PHE:HE1	1.96	0.63
48:BZ:6:GLY:O	48:BZ:7:LEU:O	2.15	0.63
33:BK:93:THR:CG2	33:BK:95:LYS:HB3	2.28	0.63
34:BL:12:LEU:CD2	34:BL:23:VAL:HG23	2.27	0.63
1:AA:1351:U:O4	12:AL:118:LYS:NZ	2.21	0.63
1:AA:198:G:H21	1:AA:199:G:C1'	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:276:G:C2'	1:AA:277:C:H5'	2.27	0.63
1:AA:49:U:C5	1:AA:361:G:N2	2.66	0.63
1:AA:363:A:C2'	1:AA:364:A:H5'	2.28	0.63
1:AA:372:C:O2'	1:AA:373:A:OP2	2.14	0.63
1:AA:765:G:O2'	1:AA:766:A:C5'	2.46	0.63
1:AA:920:U:O2'	1:AA:921:U:H5'	1.97	0.63
1:AA:965:A:O2'	1:AA:966:G:OP1	2.15	0.63
2:AC:58:A:O2'	2:AC:59:A:OP1	2.16	0.63
5:AE:208:ILE:HA	5:AE:211:ILE:HB	1.79	0.63
6:AF:132:ARG:C	6:AF:136:GLN:NE2	2.52	0.63
7:AG:14:ARG:HD3	7:AG:15:GLU:N	2.14	0.63
7:AG:26:CYS:CA	7:AG:31:CYS:HB3	2.24	0.63
8:AH:102:ALA:CB	8:AH:106:PRO:HB2	2.28	0.63
9:AI:94:GLN:CB	21:AU:32:ARG:NH2	2.62	0.63
10:AJ:75:VAL:HG23	10:AJ:145:ALA:HB1	1.79	0.63
11:AK:34:GLU:HG2	11:AK:118:VAL:HG23	1.81	0.63
12:AL:7:THR:H	12:AL:83:ARG:HD2	1.63	0.63
13:AM:50:ILE:N	13:AM:60:ARG:HG3	2.12	0.63
14:AN:53:SER:O	14:AN:55:LYS:HG2	1.98	0.63
19:AS:6:LEU:HD23	19:AS:17:TYR:HD2	1.64	0.63
19:AS:14:ASN:HA	19:AS:42:ARG:NH1	2.13	0.63
20:AT:20:THR:HA	20:AT:43:LEU:CD2	2.28	0.63
1:AA:266:G:H3'	20:AT:67:LYS:HD3	1.79	0.63
21:AU:47:THR:CB	21:AU:49:LYS:HZ1	2.04	0.63
21:AU:72:ARG:HH11	21:AU:72:ARG:HB3	1.63	0.63
22:AV:5:LEU:HD12	22:AV:9:VAL:CG1	2.28	0.63
23:AW:45:GLN:HE22	23:AW:91:LEU:HB3	1.61	0.63
23:AW:90:GLN:O	23:AW:93:GLU:HB2	1.98	0.63
51:B3:21:VAL:O	51:B3:29:PRO:HA	1.98	0.63
51:B3:5:ILE:HG13	51:B3:10:VAL:H	1.63	0.63
51:B3:59:PHE:CA	51:B3:62:ARG:HD2	2.21	0.63
52:B4:4:HIS:CB	52:B4:5:PRO:HD3	2.29	0.63
55:B7:59:LYS:HA	55:B7:59:LYS:HE2	1.80	0.63
25:BA:2478:A:H5'	56:B8:31:LYS:HZ2	1.60	0.63
25:BA:1023:U:OP2	25:BA:1025:G:N1	2.32	0.63
25:BA:1170:G:N2	25:BA:1180:C:C2	2.66	0.63
25:BA:443:A:O4'	25:BA:1201:C:O4'	2.15	0.63
25:BA:1308:A:H2'	25:BA:1309:G:O4'	1.98	0.63
25:BA:1471:A:N9	25:BA:1521:G:N2	2.46	0.63
25:BA:1569:A:O2'	28:BD:39:LYS:NZ	2.31	0.63
25:BA:1300:U:H2'	25:BA:1626:G:H21	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1654:A:O2'	29:BE:113:PHE:HD1	1.80	0.63
25:BA:1689:A:C6	25:BA:1700:A:C2	2.87	0.63
25:BA:17:G:H4'	42:BT:25:TRP:CH2	2.34	0.63
25:BA:1952:A:C6	25:BA:1953:A:C2	2.87	0.63
25:BA:2074:U:C2	25:BA:2075:U:C5	2.82	0.63
25:BA:2262:U:H4'	25:BA:2328:A:H2	1.64	0.63
25:BA:2286:A:H4'	25:BA:2287:A:C1'	2.29	0.63
25:BA:2720:U:O4	25:BA:2872:G:C2	2.50	0.63
25:BA:324:A:N6	25:BA:339:U:O2	2.31	0.63
25:BA:270:A:C6	25:BA:370:G:H1'	2.34	0.63
26:BB:47:C:H6	26:BB:47:C:O5'	1.81	0.63
27:BC:175:VAL:HA	27:BC:188:ASN:HD22	1.61	0.63
28:BD:5:LYS:HB2	28:BD:82:ILE:HD12	1.80	0.63
29:BE:49:LEU:HD21	29:BE:74:PRO:HB2	1.80	0.63
25:BA:659:C:H5'	30:BF:102:PRO:HD3	1.80	0.63
31:BG:11:TYR:O	31:BG:15:VAL:HG22	1.98	0.63
31:BG:55:LYS:O	31:BG:59:GLU:HG2	1.98	0.63
35:BM:99:LEU:O	35:BM:103:VAL:HG13	1.98	0.63
35:BM:12:ARG:CD	35:BM:50:ASP:HA	2.27	0.63
36:BN:31:LYS:O	36:BN:32:TYR:CG	2.51	0.63
36:BN:59:LYS:C	36:BN:86:ILE:HD12	2.19	0.63
37:BO:78:PRO:HG3	37:BO:116:GLY:CA	2.17	0.63
38:BP:25:ASP:C	38:BP:102:VAL:HB	2.18	0.63
46:BX:5:MET:HA	46:BX:33:LYS:HE2	1.79	0.63
47:BY:96:VAL:O	47:BY:98:MET:N	2.31	0.63
33:BK:87:LYS:CA	33:BK:121:LYS:O	2.28	0.63
34:BL:103:GLN:HA	34:BL:106:GLU:CG	2.29	0.63
25:BA:847:U:C6	25:BA:847:U:C3'	2.79	0.63
1:AA:1196:U:H4'	1:AA:1197:G:O5'	1.97	0.63
1:AA:1227:A:HO2'	16:AP:115:LYS:HG2	1.63	0.63
1:AA:1239:A:H2'	1:AA:1239:A:N3	2.14	0.63
1:AA:1320:C:C6	22:AV:72:GLY:HA3	2.34	0.63
1:AA:1358:U:OP2	1:AA:1359:C:H5	1.80	0.63
1:AA:1399:C:O2	1:AA:1401:G:C4	2.51	0.63
1:AA:1483:A:H2'	1:AA:1484:C:O4'	1.99	0.63
1:AA:192:U:C2	1:AA:193:C:C5	2.86	0.63
1:AA:297:G:O2'	1:AA:300:A:N6	2.31	0.63
1:AA:299:G:C6	1:AA:300:A:C6	2.87	0.63
1:AA:474:G:O2'	1:AA:475:G:H5'	1.98	0.63
1:AA:600:C:H2'	1:AA:601:C:C6	2.33	0.63
1:AA:671:G:H2'	1:AA:672:U:O4'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:721:G:N2	1:AA:733:A:C6	2.66	0.63
1:AA:828:A:C2'	1:AA:829:G:O4'	2.46	0.63
6:AF:112:SER:CB	6:AF:115:LEU:HD12	2.27	0.63
7:AG:42:GLN:HG2	7:AG:43:HIS:CE1	2.34	0.63
9:AI:37:VAL:HA	9:AI:65:VAL:CG1	2.29	0.63
11:AK:97:VAL:CG2	11:AK:98:LYS:N	2.50	0.63
18:AR:77:ARG:HB3	18:AR:77:ARG:NH1	2.14	0.63
20:AT:68:ARG:H	20:AT:70:ARG:NH2	1.96	0.63
22:AV:47:HIS:O	22:AV:61:TYR:HA	1.97	0.63
22:AV:40:ILE:HG13	22:AV:69:HIS:O	1.99	0.63
1:AA:1320:C:C5	22:AV:72:GLY:HA3	2.34	0.63
53:B5:39:TYR:O	53:B5:40:CYS:HB3	1.97	0.63
25:BA:137(A):G:C4	25:BA:138:G:O6	2.51	0.63
25:BA:1491:G:C4	25:BA:1492:G:O2'	2.51	0.63
25:BA:1610:A:H5''	25:BA:1611:C:OP2	1.98	0.63
25:BA:1656:C:C5'	29:BE:136:ARG:HD2	2.28	0.63
25:BA:1748:G:H2'	25:BA:1749:A:O4'	1.99	0.63
25:BA:1773:A:N7	25:BA:1774:C:O2	2.31	0.63
25:BA:180:G:H5'	25:BA:181:A:OP1	1.99	0.63
25:BA:1822:G:H2'	25:BA:1823:G:C8	2.31	0.63
25:BA:1923:U:H2'	25:BA:1924:C:C5	2.34	0.63
25:BA:2111:C:N4	25:BA:2145:C:C5	2.67	0.63
25:BA:2307:G:C4	25:BA:2308:G:H1'	2.33	0.63
25:BA:2732:G:H3'	25:BA:2733:A:C5'	2.28	0.63
25:BA:2782:G:P	25:BA:2782:G:O4'	2.55	0.63
25:BA:2817:G:H2'	25:BA:2818:G:O4'	1.98	0.63
25:BA:461:C:N4	54:B6:40:TRP:HH2	1.96	0.63
25:BA:603:A:H61	25:BA:624:C:N4	1.96	0.63
25:BA:688:U:H2'	25:BA:689:A:C8	2.33	0.63
25:BA:851:U:O2'	50:B2:46:ASN:N	2.31	0.63
25:BA:853:G:O2'	25:BA:854:G:H5'	1.99	0.63
25:BA:569:U:O2'	25:BA:983:A:N1	2.27	0.63
27:BC:131:LEU:HD13	27:BC:136:LEU:O	1.97	0.63
28:BD:71:ASP:O	28:BD:72:LYS:HB2	1.97	0.63
29:BE:45:THR:OG1	29:BE:80:GLU:O	2.10	0.63
30:BF:203:GLN:NE2	30:BF:203:GLN:CA	2.61	0.63
30:BF:82:ILE:N	30:BF:82:ILE:CD1	2.60	0.63
31:BG:37:VAL:CG1	31:BG:159:VAL:HG12	2.28	0.63
25:BA:2309:A:N7	31:BG:80:PHE:HZ	1.95	0.63
32:BH:7:LEU:HB3	32:BH:52:VAL:HG22	1.80	0.63
33:BK:3:VAL:HG21	33:BK:21:VAL:CG2	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:83:LYS:HE2	35:BM:85:ILE:HD11	1.80	0.63
36:BN:57:VAL:HG23	36:BN:58:VAL:N	2.13	0.63
36:BN:97:ARG:HD3	36:BN:118:ALA:CB	2.29	0.63
38:BP:6:ARG:HH21	38:BP:8:LYS:HG3	1.62	0.63
39:BQ:67:LEU:HD22	39:BQ:67:LEU:O	1.99	0.63
39:BQ:82:GLU:C	39:BQ:83:ILE:HD13	2.19	0.63
41:BS:17:THR:CG2	41:BS:22:PHE:CE2	2.76	0.63
41:BS:82:LEU:O	41:BS:85:LYS:NZ	2.30	0.63
42:BT:55:ARG:HB3	42:BT:58:ARG:HH22	1.63	0.63
42:BT:86:ALA:HB3	42:BT:90:VAL:HG22	1.79	0.63
43:BU:93:GLU:CD	43:BU:95:LEU:HD23	2.17	0.63
46:BX:50:ARG:HA	46:BX:54:LYS:CA	2.27	0.63
47:BY:10:ARG:H	47:BY:14:LYS:HZ2	1.46	0.63
47:BY:4:ARG:HH21	47:BY:88:PHE:HE1	1.45	0.63
33:BK:71:ILE:O	33:BK:74:ASN:HB3	1.99	0.63
34:BL:131:ALA:CA	34:BL:136:VAL:HB	2.29	0.63
25:BA:1098:A:H1'	34:BL:30:HIS:HE1	1.61	0.63
1:AA:1181:G:C2'	1:AA:1182:G:H5'	2.28	0.63
1:AA:1499:A:H2'	1:AA:1500:A:H5'	1.80	0.63
1:AA:186(D):C:H6	1:AA:186(D):C:O5'	1.82	0.63
1:AA:678:U:H2'	1:AA:679:C:C5	2.32	0.63
1:AA:692:U:O2	1:AA:694:A:H3'	1.98	0.63
1:AA:69:G:H2'	1:AA:73:G:C8	2.34	0.63
1:AA:859:A:H2'	1:AA:860:A:O4'	1.98	0.63
1:AA:862:C:C2	1:AA:863:U:C5	2.86	0.63
1:AA:900:A:H62	1:AA:901:A:N6	1.96	0.63
6:AF:139:GLN:CA	6:AF:170:GLN:HE22	2.11	0.63
6:AF:84:ILE:HG13	6:AF:101:LEU:CD2	2.27	0.63
1:AA:8:A:C4'	8:AH:102:ALA:HA	2.28	0.63
8:AH:122:GLU:HB2	8:AH:126:ARG:HG3	1.80	0.63
8:AH:69:VAL:HG12	8:AH:71:LEU:HB2	1.79	0.63
10:AJ:100:ALA:HA	10:AJ:103:TRP:HE3	1.64	0.63
11:AK:12:ARG:HH11	11:AK:26:VAL:HA	1.62	0.63
12:AL:47:LEU:HD12	12:AL:51:ARG:NH2	2.09	0.63
12:AL:82:ALA:HB1	12:AL:96:LEU:HD21	1.80	0.63
14:AN:106:LYS:CG	14:AN:107:SER:H	2.10	0.63
15:AO:90:VAL:O	15:AO:90:VAL:HG12	1.98	0.63
16:AP:52:GLU:HA	16:AP:55:ARG:NE	2.14	0.63
18:AR:7:GLU:O	18:AR:11:VAL:HG22	1.97	0.63
51:B3:25:TYR:N	51:B3:25:TYR:CD2	2.64	0.63
52:B4:55:ARG:H	52:B4:55:ARG:CD	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2346:A:N6	53:B5:37:ARG:HH22	1.96	0.63
54:B6:21:ARG:H	54:B6:21:ARG:NH1	1.95	0.63
37:BO:56:SER:OG	55:B7:13:ARG:NE	2.32	0.63
55:B7:6:THR:O	55:B7:9:GLY:N	2.32	0.63
25:BA:1388:G:H2'	25:BA:1389:G:C8	2.30	0.63
25:BA:1771:C:H2'	25:BA:1772:G:C8	2.33	0.63
25:BA:1825:A:H2'	25:BA:1825:A:N3	2.13	0.63
25:BA:1999:C:H2'	25:BA:2000:G:O5'	1.98	0.63
25:BA:2111:C:C4	25:BA:2145:C:C4	2.86	0.63
25:BA:2126:A:H1'	25:BA:2162:G:H22	1.57	0.63
25:BA:2136:C:H2'	25:BA:2137:C:O4'	1.98	0.63
25:BA:2300:G:O2'	25:BA:2301:C:H5'	1.97	0.63
25:BA:2571:C:H5''	25:BA:2572:A:H5'	1.79	0.63
25:BA:270(H):C:O2'	25:BA:270(I):G:H5'	1.98	0.63
25:BA:513:A:H2'	25:BA:513:A:N3	2.14	0.63
25:BA:13:A:N6	25:BA:525:U:C6	2.67	0.63
25:BA:616:A:O3'	25:BA:617:G:O4'	2.16	0.63
25:BA:61:G:C6	25:BA:62:C:C4	2.86	0.63
25:BA:980:A:C6	25:BA:1135:C:H4'	2.33	0.63
28:BD:226:MET:CE	28:BD:236:GLY:H	2.11	0.63
28:BD:11:PRO:O	28:BD:23:GLU:HA	1.98	0.63
28:BD:9:TYR:O	28:BD:10:THR:CB	2.47	0.63
25:BA:2823:A:OP2	29:BE:113:PHE:CE1	2.52	0.63
29:BE:136:ARG:O	29:BE:137:HIS:ND1	2.31	0.63
29:BE:161:GLY:O	29:BE:163:GLU:N	2.32	0.63
29:BE:8:LYS:CE	41:BS:3:ARG:HG3	2.28	0.63
30:BF:197:ASP:HA	30:BF:200:GLU:HG3	1.78	0.63
31:BG:139:LEU:HD13	31:BG:142:PRO:CB	2.29	0.63
31:BG:57:ALA:CA	31:BG:68:PRO:N	2.61	0.63
35:BM:30:ILE:O	35:BM:33:LEU:HB3	1.98	0.63
35:BM:67:LEU:H	35:BM:87:LEU:CD2	2.11	0.63
36:BN:114:ILE:HG23	36:BN:115:VAL:N	2.14	0.63
36:BN:72:PRO:HB2	41:BS:84:GLN:HE22	1.58	0.63
37:BO:114:ILE:HG13	37:BO:123:LEU:CG	2.29	0.63
37:BO:113:LYS:HA	37:BO:129:ALA:HB3	1.79	0.63
37:BO:78:PRO:HA	37:BO:81:GLN:CG	2.18	0.63
37:BO:81:GLN:HG2	37:BO:86:LYS:NZ	2.14	0.63
38:BP:37:LEU:HG	38:BP:130:LYS:N	2.13	0.63
38:BP:53:ALA:O	38:BP:56:ARG:NE	2.31	0.63
38:BP:94:VAL:HG23	38:BP:95:ALA:N	2.13	0.63
39:BQ:13:HIS:HB3	39:BQ:16:HIS:HD2	1.55	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BR:15:ARG:HH21	40:BR:15:ARG:HG2	1.64	0.63
40:BR:4:LEU:H	40:BR:4:LEU:HD23	1.64	0.63
41:BS:105:LEU:HD12	41:BS:114:LEU:HD22	1.80	0.63
36:BN:106:LEU:HD21	41:BS:38:ASN:ND2	2.13	0.63
41:BS:57:PHE:CA	41:BS:61:PHE:CD2	2.81	0.63
36:BN:79:PHE:H	41:BS:73:GLU:HB3	1.64	0.63
44:BV:8:ARG:NH2	44:BV:102:HIS:CE1	2.66	0.63
46:BX:46:LYS:CE	46:BX:52:SER:HB2	2.29	0.63
26:BB:77:U:O2'	47:BY:78:LYS:HE3	1.99	0.63
25:BA:2277:G:H5''	48:BZ:12:ASN:HD22	1.61	0.63
48:BZ:44:ARG:HE	48:BZ:77:ARG:CD	2.12	0.63
33:BK:128:LEU:HB3	33:BK:130:TYR:CE1	2.34	0.63
33:BK:132:PRO:HD3	33:BK:138:ILE:CG2	2.24	0.63
33:BK:82:ARG:O	33:BK:83:ALA:HB2	1.98	0.63
34:BL:101:TRP:CE3	34:BL:105:LEU:HD21	2.33	0.63
4:A1:22:A:O2'	4:A1:23:A:H5'	1.98	0.63
1:AA:1227:A:O2'	16:AP:115:LYS:HG2	1.97	0.63
1:AA:1239:A:H1'	1:AA:1241:G:C8	2.33	0.63
1:AA:1278:U:H4'	1:AA:1279:A:C1'	2.28	0.63
1:AA:1413:A:O2'	1:AA:1414:U:H5'	1.99	0.63
1:AA:1499:A:H8	1:AA:1499:A:O5'	1.81	0.63
1:AA:129(A):G:H2'	1:AA:189:U:C6	2.33	0.63
1:AA:263:A:C3'	1:AA:264:U:H5''	2.29	0.63
1:AA:332:G:H2'	1:AA:333:G:H8	1.63	0.63
1:AA:332:G:O2'	1:AA:333:G:C5'	2.44	0.63
1:AA:363:A:OP2	15:AO:34:ARG:HB3	1.98	0.63
1:AA:38:G:N3	1:AA:397:A:C2	2.66	0.63
1:AA:439:A:H5''	1:AA:493:G:H22	1.62	0.63
1:AA:302:G:C2'	1:AA:556:C:H5''	2.28	0.63
1:AA:622:A:C2'	1:AA:623:C:H5'	2.29	0.63
1:AA:647:C:N3	1:AA:648:A:N7	2.47	0.63
1:AA:947:G:O2'	1:AA:948:C:H5'	1.97	0.63
1:AA:953:G:H2'	1:AA:954:G:H8	1.59	0.63
5:AE:28:PHE:HE2	5:AE:189:ASP:C	2.01	0.63
5:AE:78:GLN:CG	5:AE:94:ASN:HB3	2.09	0.63
7:AG:128:VAL:HG21	7:AG:133:VAL:CG2	2.29	0.63
7:AG:131:ARG:N	7:AG:131:ARG:HD2	2.12	0.63
7:AG:208:SER:O	7:AG:209:ARG:HD3	1.98	0.63
8:AH:109:ILE:HG23	8:AH:110:LEU:H	1.62	0.63
8:AH:78:HIS:CE1	8:AH:142:LEU:HD23	2.34	0.63
11:AK:18:ARG:HH12	11:AK:78:GLN:HE21	1.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:63:LEU:CD2	11:AK:63:LEU:N	2.61	0.63
12:AL:96:LEU:HG	12:AL:101:PHE:HE1	1.62	0.63
13:AM:38:ILE:O	13:AM:71:LEU:HB2	1.98	0.63
14:AN:92:GLU:O	14:AN:93:GLN:C	2.36	0.63
1:AA:1329:A:C5'	16:AP:29:ARG:NE	2.61	0.63
16:AP:91:ARG:HH22	16:AP:103:THR:HG21	1.64	0.63
22:AV:18:LYS:HE2	22:AV:22:LEU:CD1	2.28	0.63
24:AX:14:TRP:CZ3	24:AX:15:ARG:CZ	2.81	0.63
25:BA:96:G:C4'	49:B1:43:HIS:CE1	2.82	0.63
50:B2:17:LYS:HA	50:B2:20:LYS:CD	2.25	0.63
50:B2:2:PRO:HB2	50:B2:39:ASP:CB	2.29	0.63
55:B7:29:LYS:O	55:B7:32:LEU:HD12	1.99	0.63
56:B8:11:CYS:O	56:B8:11:CYS:SG	2.57	0.63
25:BA:1179:C:C2'	25:BA:1180:C:C6	2.82	0.63
25:BA:809:G:C1'	25:BA:1254:A:H1'	2.29	0.63
25:BA:1255:U:O2	30:BF:72:ARG:HB3	1.99	0.63
25:BA:1341:U:C3'	25:BA:1341:U:H6	2.07	0.63
25:BA:1351:C:H4'	25:BA:1571:A:O2'	1.99	0.63
25:BA:1395:A:P	25:BA:1603:A:OP1	2.56	0.63
25:BA:1469:A:C8	25:BA:1469:A:H3'	2.34	0.63
25:BA:1478:G:H22	25:BA:1516:U:H3	1.45	0.63
25:BA:1524:G:C5	25:BA:1525:G:N7	2.67	0.63
25:BA:1527:G:C3'	25:BA:1527:G:C8	2.81	0.63
25:BA:1568:G:HO2'	25:BA:1569:A:P	2.22	0.63
25:BA:1394:U:H4'	25:BA:1603:A:C5'	2.29	0.63
25:BA:1953:A:H1'	25:BA:2560:C:O4'	1.98	0.63
25:BA:1964:G:C6	25:BA:1967:C:N4	2.59	0.63
25:BA:574:C:N4	25:BA:2054:A:C5'	2.50	0.63
25:BA:2178:C:H5'	27:BC:46:LYS:HB3	1.80	0.63
25:BA:2215:G:H2'	25:BA:2216:G:H8	1.63	0.63
25:BA:2225:A:H4'	25:BA:2226:C:O5'	1.98	0.63
25:BA:2228:G:C8	25:BA:2229:C:C5	2.87	0.63
25:BA:222:A:N6	25:BA:224:G:C2	2.67	0.63
25:BA:2398:U:H2'	25:BA:2399:G:H8	1.63	0.63
25:BA:792:G:C5	25:BA:2440:C:H1'	2.34	0.63
25:BA:2585:U:H2'	25:BA:2585:U:O2	1.97	0.63
25:BA:265:A:H8	25:BA:265:A:C3'	2.02	0.63
25:BA:519:U:H6	25:BA:519:U:C5'	2.12	0.63
25:BA:612:G:H3'	25:BA:615:G:C8	2.33	0.63
25:BA:616:A:H2'	25:BA:617:G:N3	2.14	0.63
25:BA:715:G:H3'	25:BA:715:G:H8	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:715:G:O2'	25:BA:716:A:H5'	1.99	0.63
25:BA:71:A:O2'	25:BA:72:U:C5'	2.46	0.63
25:BA:924:C:O2'	25:BA:925:C:H5'	1.99	0.63
27:BC:64:LEU:HD11	27:BC:161:ILE:CG2	2.23	0.63
25:BA:693:C:OP1	28:BD:60:ARG:NH2	2.30	0.63
28:BD:76:PRO:HG2	28:BD:98:VAL:HG21	1.78	0.63
29:BE:114:ALA:O	29:BE:115:GLY:O	2.17	0.63
29:BE:119:ARG:HE	29:BE:120:TRP:HB3	1.63	0.63
29:BE:33:VAL:CG2	29:BE:47:VAL:HG12	2.29	0.63
25:BA:2811:G:H5'	29:BE:60:ASN:ND2	2.12	0.63
29:BE:60:ASN:OD1	29:BE:61:ARG:N	2.32	0.63
29:BE:85:ASN:N	29:BE:85:ASN:HD22	1.96	0.63
30:BF:101:LEU:O	30:BF:106:ARG:NH2	2.32	0.63
30:BF:122:LYS:HZ1	30:BF:192:LEU:HB3	1.62	0.63
30:BF:161:GLU:OE2	30:BF:177:ALA:HB1	1.98	0.63
31:BG:112:PRO:HA	31:BG:117:PHE:HB3	1.80	0.63
31:BG:57:ALA:O	31:BG:61:ALA:CB	2.46	0.63
35:BM:107:LEU:HD13	35:BM:117:PHE:CD1	2.34	0.63
35:BM:86:PRO:CB	35:BM:89:LYS:NZ	2.56	0.63
38:BP:102:VAL:CG1	38:BP:104:PHE:CZ	2.81	0.63
38:BP:127:ILE:HD13	38:BP:129:THR:CG2	2.28	0.63
39:BQ:55:ALA:HB1	39:BQ:79:LEU:CD2	2.24	0.63
39:BQ:7:GLY:C	39:BQ:8:ARG:O	2.32	0.63
40:BR:101:LEU:O	40:BR:104:GLY:HA3	1.99	0.63
40:BR:57:LYS:HZ1	40:BR:62:LYS:CG	2.12	0.63
41:BS:18:ASP:CB	41:BS:81:PRO:HG3	2.28	0.63
41:BS:53:ARG:HH21	41:BS:102:ILE:H	1.45	0.63
41:BS:64:ARG:O	41:BS:66:VAL:HG22	1.98	0.63
42:BT:53:ARG:O	42:BT:57:PHE:CD1	2.52	0.63
43:BU:14:VAL:HG13	43:BU:19:LYS:HE2	1.80	0.63
25:BA:1162:G:H4'	43:BU:23:GLU:OE2	1.98	0.63
44:BV:33:ARG:CZ	44:BV:37:ARG:HB3	2.29	0.63
44:BV:65:LEU:H	44:BV:65:LEU:HD22	1.63	0.63
47:BY:19:ARG:NH2	47:BY:84:GLU:HB3	2.11	0.63
47:BY:23:LYS:HA	47:BY:39:VAL:O	1.98	0.63
47:BY:57:ILE:HG12	47:BY:70:LEU:N	2.14	0.63
32:BH:25:LYS:HZ3	32:BH:27:LYS:HZ2	1.45	0.63
1:AA:1055:A:H2	6:AF:156:ARG:HD3	1.63	0.63
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.63	0.63
1:AA:1145:C:O2'	1:AA:1146:A:C8	2.51	0.63
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1433:A:N1	1:AA:1434:A:C2	2.66	0.63
1:AA:158:G:H22	1:AA:164:U:H1'	1.63	0.63
1:AA:179:A:H2'	1:AA:180:U:H6	1.64	0.63
1:AA:190:G:C8	1:AA:190:G:OP1	2.51	0.63
1:AA:328:C:O2'	1:AA:329:A:OP2	2.16	0.63
1:AA:683:G:H2'	1:AA:684:A:H8	1.62	0.63
1:AA:701:C:C2	1:AA:703:G:N2	2.66	0.63
1:AA:754:C:C2'	1:AA:755:G:OP1	2.46	0.63
1:AA:760:G:C2	20:AT:104:LYS:O	2.51	0.63
1:AA:814:A:N7	1:AA:816:A:C5	2.66	0.63
1:AA:922:G:H4'	8:AH:20:GLN:HA	1.80	0.63
1:AA:944:G:H3'	1:AA:945:G:H5'	1.81	0.63
5:AE:184:VAL:O	5:AE:184:VAL:HG12	1.98	0.63
6:AF:196:LEU:HD23	6:AF:196:LEU:N	2.14	0.63
7:AG:205:GLU:CD	8:AH:100:VAL:H	2.01	0.63
9:AI:16:GLN:HG3	9:AI:17:SER:N	2.13	0.63
12:AL:3:GLN:CA	12:AL:20:ARG:HG2	2.28	0.63
12:AL:47:LEU:CD1	12:AL:51:ARG:HH12	2.12	0.63
15:AO:73:GLU:CD	15:AO:73:GLU:N	2.50	0.63
18:AR:32:LEU:HD12	18:AR:63:ARG:HB3	1.81	0.63
18:AR:62:GLN:HA	18:AR:65:ARG:NH1	2.13	0.63
18:AR:7:GLU:O	18:AR:8:LYS:C	2.34	0.63
19:AS:51:VAL:HG21	19:AS:77:ALA:HB2	1.80	0.63
1:AA:259:G:C3'	23:AW:83:ARG:HH22	2.05	0.63
50:B2:38:GLU:OE1	50:B2:38:GLU:N	2.31	0.63
53:B5:25:LYS:HD3	55:B7:35:GLN:HG2	1.81	0.63
54:B6:43:THR:N	54:B6:44:PRO:CD	2.61	0.63
55:B7:1:MET:N	55:B7:2:PRO:HD2	2.14	0.63
55:B7:3:LYS:N	55:B7:4:MET:HE2	2.13	0.63
25:BA:1025:G:C8	25:BA:1134:G:O4'	2.52	0.63
25:BA:107:C:C5'	25:BA:293:U:O4'	2.46	0.63
25:BA:1183:G:H1'	25:BA:1184:G:H8	1.64	0.63
25:BA:1198:U:C2	25:BA:1199:U:C5	2.87	0.63
25:BA:1221:C:H2'	25:BA:1222:C:O5'	1.98	0.63
25:BA:1312:U:H3'	25:BA:1313:U:C6	2.34	0.63
25:BA:1386:C:H2'	25:BA:1387:C:H6	1.64	0.63
25:BA:1438:U:C2'	25:BA:1439:A:H5'	2.28	0.63
25:BA:1449:A:OP1	25:BA:1543:A:N1	2.31	0.63
25:BA:1498:C:O2'	25:BA:1576:U:H5'	1.98	0.63
25:BA:150:C:N4	25:BA:176:G:H1	1.90	0.63
25:BA:2111:C:H1'	25:BA:2118:U:C1'	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2287:A:C2	25:BA:2346:A:N6	2.67	0.63
25:BA:2063:C:C1'	25:BA:2451:A:H2	1.98	0.63
25:BA:2623:G:O5'	25:BA:2826:A:H1'	1.98	0.63
25:BA:271(B):G:OP1	25:BA:271(C):U:O4'	2.17	0.63
25:BA:2740:A:C2	25:BA:2741:A:C5	2.87	0.63
25:BA:2818:G:N2	25:BA:2829:C:C2	2.66	0.63
25:BA:364:C:H2'	25:BA:365:C:H6	1.57	0.63
25:BA:489:G:C2	25:BA:491:G:N9	2.66	0.63
25:BA:627:A:H1'	25:BA:637:A:C5	2.34	0.63
25:BA:895:U:O2	25:BA:896:A:C6	2.52	0.63
25:BA:982:C:H4'	25:BA:983:A:OP1	1.98	0.63
27:BC:103:ILE:HG12	27:BC:107:TRP:O	1.99	0.63
27:BC:156:ILE:HA	27:BC:160:ARG:HB2	1.81	0.63
28:BD:147:LEU:N	28:BD:154:LYS:HG2	2.14	0.63
29:BE:62:PRO:O	29:BE:63:LEU:C	2.37	0.63
30:BF:142:TRP:O	30:BF:145:GLU:N	2.32	0.63
30:BF:71:GLY:O	30:BF:73:ALA:N	2.31	0.63
32:BH:87:LEU:HD12	32:BH:164:TYR:HA	1.81	0.63
32:BH:43:VAL:HG12	32:BH:44:VAL:N	2.13	0.63
32:BH:71:LEU:O	32:BH:74:ASN:HB3	1.97	0.63
33:BK:21:VAL:HB	33:BK:26:ALA:HB2	1.81	0.63
35:BM:23:LEU:HD23	35:BM:60:ILE:CG2	2.28	0.63
35:BM:7:LYS:HD3	35:BM:39:ARG:NH1	2.14	0.63
35:BM:45:ASN:O	35:BM:46:VAL:CG2	2.47	0.63
35:BM:67:LEU:CD2	35:BM:70:LYS:HZ1	2.12	0.63
36:BN:113:LYS:O	36:BN:113:LYS:NZ	2.31	0.63
36:BN:32:TYR:CD2	36:BN:32:TYR:N	2.67	0.63
37:BO:122:PRO:HB3	37:BO:137:LYS:HB2	1.80	0.63
37:BO:56:SER:O	55:B7:13:ARG:CZ	2.47	0.63
37:BO:64:LYS:HD2	37:BO:64:LYS:C	2.18	0.63
37:BO:64:LYS:O	37:BO:64:LYS:HD2	1.98	0.63
37:BO:78:PRO:HD2	37:BO:117:GLU:OE1	1.99	0.63
38:BP:66:ILE:O	38:BP:67:ARG:HB3	1.98	0.63
39:BQ:50:HIS:HE1	39:BQ:54:LEU:HD22	1.63	0.63
40:BR:106:ARG:HD3	40:BR:106:ARG:C	2.19	0.63
40:BR:29:PHE:O	40:BR:34:HIS:CD2	2.51	0.63
41:BS:65:LYS:HA	41:BS:76:PHE:O	1.97	0.63
42:BT:92:ARG:CG	42:BT:93:LYS:NZ	2.57	0.63
45:BW:54:VAL:HG22	45:BW:81:VAL:HB	1.81	0.63
46:BX:46:LYS:HB2	46:BX:58:GLY:N	2.14	0.63
47:BY:152:ALA:HA	47:BY:155:LEU:HD22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:41:LEU:O	47:BY:42:VAL:C	2.37	0.63
25:BA:2254:C:O2	48:BZ:7:LEU:HD11	1.99	0.63
48:BZ:50:ASN:HB3	48:BZ:81:VAL:HB	1.80	0.63
33:BK:91:SER:H	33:BK:121:LYS:HD2	1.64	0.63
33:BK:93:THR:HG23	33:BK:95:LYS:HB3	1.81	0.63
34:BL:77:LEU:HB2	34:BL:111:LYS:HZ2	1.63	0.63
1:AA:85:U:C2'	1:AA:86:U:H5'	2.29	0.63
20:AT:100:LYS:O	20:AT:101:ARG:HD2	1.99	0.63
25:BA:1589:C:O2'	25:BA:1590:U:H5'	1.98	0.63
1:AA:1238:A:N6	1:AA:1301:U:H3	1.88	0.63
1:AA:137:C:H2'	1:AA:138:G:C5'	2.27	0.63
1:AA:1396:A:O4'	1:AA:1398:A:H1'	1.99	0.63
1:AA:321:A:N6	1:AA:328:C:O2'	2.31	0.63
1:AA:404:U:C2	1:AA:405:U:H5	2.17	0.63
1:AA:640:A:H2'	1:AA:641:U:C5'	2.29	0.63
1:AA:690:G:N3	1:AA:690:G:H2'	2.13	0.63
1:AA:707:C:H2'	1:AA:708:C:C5'	2.29	0.63
1:AA:780:A:H2	1:AA:803:G:C6	2.17	0.63
1:AA:572:A:C2	1:AA:864:A:C2	2.87	0.63
1:AA:874:G:N2	1:AA:875:C:C2	2.67	0.63
1:AA:909:A:H2'	1:AA:910:C:O5'	1.98	0.63
1:AA:959:A:H1'	1:AA:985:C:H1'	1.80	0.63
1:AA:978:A:C6	1:AA:1361:G:N2	2.61	0.63
6:AF:12:LEU:HD21	6:AF:18:TRP:CH2	2.34	0.63
11:AK:133:LEU:N	11:AK:133:LEU:HD23	2.11	0.63
11:AK:40:ALA:HB2	11:AK:45:ILE:CG1	2.29	0.63
11:AK:61:VAL:HG12	11:AK:62:TYR:N	2.13	0.63
12:AL:111:ARG:NE	12:AL:113:LYS:HG3	2.13	0.63
13:AM:79:ARG:HH11	13:AM:79:ARG:C	2.01	0.63
14:AN:23:ALA:HB2	14:AN:28:THR:CG2	2.28	0.63
16:AP:14:ARG:HB3	16:AP:44:ARG:HH11	1.63	0.63
21:AU:53:ARG:HH11	21:AU:63:GLN:HB2	1.64	0.63
25:BA:400:G:N1	51:B3:63:TYR:HE2	1.97	0.63
56:B8:1:MET:N	56:B8:35:ARG:NH2	2.45	0.63
25:BA:1107:G:H2'	25:BA:1108:U:O4'	1.98	0.63
25:BA:122:G:H2'	25:BA:123:G:C8	2.34	0.63
25:BA:565:C:O2'	25:BA:1253:A:H2	1.81	0.63
25:BA:1332:G:C5	25:BA:1609:A:N6	2.67	0.63
25:BA:1456:G:C2	25:BA:1457:A:C8	2.87	0.63
25:BA:1569:A:N1	25:BA:1570:A:C6	2.67	0.63
25:BA:1272:A:N7	25:BA:1618:A:C1'	2.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1904:G:C2	25:BA:1905:C:C6	2.86	0.63
25:BA:1913:A:C5	25:BA:1918:A:N6	2.66	0.63
25:BA:1946:U:H2'	25:BA:1947:C:H6	1.63	0.63
25:BA:1660:C:N4	25:BA:2001:A:H61	1.97	0.63
25:BA:2118:U:OP1	25:BA:2147:G:N1	2.32	0.63
25:BA:216:A:H2'	25:BA:217:G:H8	1.63	0.63
25:BA:2246:G:HO2'	25:BA:2247:A:C5'	2.12	0.63
25:BA:962:G:H21	25:BA:2250:G:N2	1.97	0.63
25:BA:2493:U:H6	25:BA:2493:U:H5''	1.63	0.63
25:BA:2557:G:H2'	25:BA:2558:C:H6	1.64	0.63
25:BA:2576:G:C4'	25:BA:2577:A:H5'	2.26	0.63
25:BA:2590:A:H2'	25:BA:2591:C:C6	2.33	0.63
25:BA:2648:C:H2'	25:BA:2649:U:C6	2.34	0.63
25:BA:2748:A:N3	32:BH:67:LEU:HD11	2.14	0.63
25:BA:2886:G:N2	25:BA:2887:U:H1'	2.14	0.63
25:BA:356:G:C3'	25:BA:357:A:C8	2.82	0.63
25:BA:46:C:H2'	25:BA:47:C:C5	2.34	0.63
25:BA:585:G:C6	25:BA:1251:C:C5	2.86	0.63
25:BA:596:G:C2	25:BA:597:U:C2	2.87	0.63
25:BA:656:G:H8	25:BA:656:G:OP2	1.82	0.63
25:BA:728:G:O2'	25:BA:729:G:C5'	2.46	0.63
25:BA:735:A:H2'	25:BA:736:C:H5'	1.81	0.63
25:BA:777:A:C2'	25:BA:778:G:H5'	2.29	0.63
25:BA:979:G:N2	25:BA:985:C:N3	2.47	0.63
27:BC:151:GLU:HA	27:BC:154:ARG:HD2	1.80	0.63
27:BC:192:PHE:CE1	27:BC:196:LEU:HD13	2.34	0.63
27:BC:32:LEU:CG	27:BC:220:PRO:HG2	2.29	0.63
28:BD:145:VAL:HB	28:BD:155:LEU:CD2	2.28	0.63
28:BD:109:ASP:CB	28:BD:195:ALA:HB3	2.29	0.63
28:BD:9:TYR:CD2	28:BD:200:ASP:HB2	2.34	0.63
29:BE:3:GLY:O	29:BE:197:ILE:HG23	1.99	0.63
30:BF:20:LEU:N	30:BF:20:LEU:HD23	2.11	0.63
32:BH:166:GLY:O	32:BH:167:GLU:C	2.37	0.63
32:BH:23:ARG:NH2	32:BH:36:PRO:HD3	2.11	0.63
35:BM:16:ILE:HG22	35:BM:21:LYS:HZ3	1.60	0.63
37:BO:135:LEU:H	37:BO:135:LEU:CD1	2.08	0.63
38:BP:26:TYR:N	38:BP:26:TYR:CD1	2.61	0.63
38:BP:34:LEU:HD13	38:BP:67:ARG:NH2	2.13	0.63
39:BQ:104:ARG:NH1	39:BQ:107:ASP:OD1	2.32	0.63
39:BQ:8:ARG:CZ	39:BQ:10:LEU:CD1	2.76	0.63
39:BQ:96:ARG:C	39:BQ:114:VAL:HG13	2.18	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:23:GLY:HA2	42:BT:29:SER:HB2	1.81	0.63
25:BA:2602:A:C4	48:BZ:2:ALA:HA	2.33	0.63
34:BL:39:LYS:HA	34:BL:42:ASN:ND2	2.14	0.63
1:AA:1074:G:C5	1:AA:1075:C:C5	2.87	0.62
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.33	0.62
1:AA:1315:U:O2'	1:AA:1360:A:H1'	1.98	0.62
1:AA:1405:G:O2'	1:AA:1519:A:H5'	1.99	0.62
1:AA:1465:C:H2'	1:AA:1466:C:O5'	1.99	0.62
1:AA:1492:A:N6	1:AA:1494:G:C4'	2.58	0.62
1:AA:1505:G:H5''	1:AA:1506:U:H5''	1.81	0.62
1:AA:797:C:C2'	1:AA:798:G:H5'	2.28	0.62
3:AD:55:U:H1'	3:AD:58:A:N7	2.14	0.62
3:AD:60:U:H3'	3:AD:60:U:C6	2.34	0.62
6:AF:142:MET:HG2	6:AF:170:GLN:CG	2.28	0.62
7:AG:78:LEU:HD13	7:AG:93:PHE:HE2	1.64	0.62
9:AI:12:PRO:HG2	9:AI:13:ASN:HD22	1.62	0.62
9:AI:8:ILE:CG2	9:AI:88:VAL:HG22	2.29	0.62
10:AJ:75:VAL:N	10:AJ:145:ALA:HB1	2.14	0.62
10:AJ:40:ALA:CB	12:AL:41:VAL:HG21	2.29	0.62
10:AJ:73:MET:HA	10:AJ:90:GLU:O	1.98	0.62
11:AK:98:LYS:HG2	11:AK:98:LYS:O	1.99	0.62
16:AP:91:ARG:HB2	16:AP:98:VAL:HG13	1.80	0.62
17:AQ:26:ARG:HH11	17:AQ:47:LEU:HD11	1.63	0.62
1:AA:376:G:O3'	19:AS:5:ARG:HD2	1.98	0.62
20:AT:80:GLY:O	20:AT:81:ARG:C	2.37	0.62
21:AU:34:TYR:HE1	21:AU:35:ARG:NE	1.96	0.62
23:AW:47:GLY:C	23:AW:48:LYS:HD2	2.17	0.62
1:AA:263:A:P	23:AW:75:ASN:HD21	2.21	0.62
3:AD:74:C:OP2	51:B3:30:GLU:OE1	2.16	0.62
25:BA:1131:G:OP1	35:BM:79:PRO:CD	2.47	0.62
25:BA:1263:U:O3'	52:B4:10:LYS:NZ	2.27	0.62
25:BA:138:G:N3	25:BA:139:G:N7	2.46	0.62
25:BA:1495:A:C6	25:BA:1496:A:N6	2.67	0.62
25:BA:1613:G:C2'	25:BA:1617:C:H42	2.09	0.62
25:BA:1637:A:H4'	25:BA:2711:A:HO2'	1.64	0.62
25:BA:1670:C:H2'	25:BA:1671:U:H5'	1.80	0.62
25:BA:1707:G:C1'	25:BA:1758:G:H22	2.10	0.62
25:BA:1742:C:O3'	25:BA:1743:G:H4'	1.96	0.62
25:BA:1746:G:P	25:BA:1746:G:H3'	2.39	0.62
25:BA:2040:C:C2	25:BA:2041:U:C5	2.87	0.62
25:BA:213:A:O2'	25:BA:214:G:H5'	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2333:A:H4'	25:BA:2335:A:O4'	1.99	0.62
25:BA:2432:A:H5'	25:BA:2433:A:OP2	1.97	0.62
25:BA:2032:G:C6	25:BA:2454:G:H1'	2.34	0.62
25:BA:2630:G:H3'	25:BA:2631:G:C8	2.34	0.62
25:BA:270(X):G:H2'	25:BA:270(Y):G:C4'	2.29	0.62
25:BA:2780:G:N1	35:BM:97:ARG:NH1	2.43	0.62
25:BA:81:G:H2'	25:BA:82:G:O5'	1.99	0.62
25:BA:85:G:C5'	46:BX:28:LYS:HE3	2.29	0.62
25:BA:890:A:H5'	25:BA:892:G:OP1	1.98	0.62
25:BA:90:U:O2'	25:BA:91:A:H5''	1.99	0.62
25:BA:969:U:O5'	25:BA:969:U:H6	1.82	0.62
25:BA:974:G:O6	25:BA:974(A):C:N4	2.32	0.62
25:BA:2175:C:OP1	27:BC:5:LYS:HG2	1.99	0.62
28:BD:76:PRO:CB	28:BD:118:VAL:HG22	2.30	0.62
28:BD:181:GLU:HG2	28:BD:268:ARG:CZ	2.28	0.62
29:BE:146:THR:CB	29:BE:147:PRO:HD3	2.29	0.62
30:BF:34:TRP:HA	30:BF:37:VAL:HG23	1.81	0.62
30:BF:7:TYR:O	30:BF:18:ARG:HG3	1.98	0.62
31:BG:14:GLU:OE1	31:BG:15:VAL:HG13	1.99	0.62
31:BG:36:LYS:NZ	31:BG:38:VAL:N	2.46	0.62
25:BA:2305:A:C6	31:BG:42:GLY:HA2	2.33	0.62
32:BH:149:ARG:HG3	32:BH:162:ILE:HG12	1.80	0.62
32:BH:151:ILE:HG13	32:BH:151:ILE:O	1.99	0.62
35:BM:44:PRO:CG	35:BM:45:ASN:OD1	2.46	0.62
36:BN:85:VAL:O	36:BN:93:PRO:CD	2.45	0.62
37:BO:77:ARG:HG2	37:BO:79:ARG:HB2	1.81	0.62
25:BA:871:U:H4'	38:BP:69:PHE:CZ	2.34	0.62
43:BU:28:GLU:HG2	43:BU:94:LEU:HB2	1.79	0.62
44:BV:25:ARG:HH21	44:BV:74:ALA:H	1.46	0.62
45:BW:17:ALA:HB1	45:BW:21:PHE:CZ	2.33	0.62
46:BX:74:PRO:O	46:BX:76:CYS:N	2.31	0.62
33:BK:124:GLY:C	33:BK:125:GLU:HG3	2.19	0.62
1:AA:68:G:C4'	1:AA:171:A:H1'	2.29	0.62
1:AA:490:G:H2'	1:AA:491:G:C8	2.34	0.62
1:AA:558:G:O5'	1:AA:559:A:H3'	1.99	0.62
1:AA:660:G:H2'	1:AA:661:G:C8	2.34	0.62
1:AA:745:C:H4'	1:AA:836:G:H21	1.64	0.62
1:AA:924:C:O2'	1:AA:1399:C:C6	2.52	0.62
5:AE:104:ASN:CG	5:AE:104:ASN:O	2.38	0.62
5:AE:82:ARG:O	5:AE:86:GLU:HB2	1.99	0.62
6:AF:173:VAL:O	6:AF:175:LEU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:177:ASP:OD1	7:AG:179:GLU:HB3	1.98	0.62
7:AG:187:ARG:CG	7:AG:188:LEU:H	2.08	0.62
8:AH:78:HIS:CD2	8:AH:78:HIS:N	2.67	0.62
9:AI:3:ARG:C	9:AI:4:TYR:HD2	2.02	0.62
11:AK:45:ILE:HD12	11:AK:48:TYR:HB3	1.81	0.62
13:AM:90:LEU:H	13:AM:91:PRO:CD	2.09	0.62
14:AN:54:ARG:C	14:AN:56:GLY:N	2.52	0.62
19:AS:19:ILE:HG13	19:AS:38:TYR:HA	1.80	0.62
21:AU:21:LYS:HE2	21:AU:57:GLY:HA3	1.81	0.62
49:B1:1:MET:O	49:B1:4:GLN:N	2.32	0.62
49:B1:26:GLU:O	49:B1:30:LEU:HD23	1.99	0.62
45:BW:7:VAL:CG2	49:B1:31:ARG:NH1	2.62	0.62
51:B3:7:PRO:HG2	51:B3:60:GLN:CG	2.27	0.62
54:B6:43:THR:CG2	54:B6:46:VAL:HB	2.30	0.62
55:B7:26:LYS:HG3	55:B7:45:GLY:C	2.20	0.62
25:BA:247:G:H22	55:B7:8:LYS:CD	2.13	0.62
56:B8:10:ILE:HD13	56:B8:32:HIS:CD2	2.34	0.62
25:BA:1147:C:H3'	25:BA:1147:C:C6	2.34	0.62
25:BA:131:G:H2'	25:BA:132:G:H8	1.64	0.62
25:BA:1375:C:H2'	25:BA:1376:C:H6	1.63	0.62
25:BA:1428:C:N4	25:BA:1569:A:H3'	2.15	0.62
25:BA:1657:C:O2'	25:BA:1658:C:O4'	2.17	0.62
25:BA:1856:G:C5	25:BA:1857:G:N3	2.67	0.62
25:BA:1936:A:H5''	25:BA:1937:A:O4'	1.99	0.62
25:BA:2042:A:H2'	25:BA:2043:C:H5'	1.81	0.62
25:BA:2114:A:O2'	25:BA:2115:G:H5'	2.00	0.62
25:BA:2254:C:H2'	25:BA:2255:G:H5'	1.80	0.62
25:BA:2333:A:H4'	25:BA:2335:A:C4'	2.30	0.62
25:BA:2392:A:H2'	25:BA:2393:A:O5'	1.99	0.62
25:BA:2417:C:N4	25:BA:2418:A:N6	2.47	0.62
25:BA:2631:G:N2	29:BE:61:ARG:NH1	2.47	0.62
25:BA:1051:G:H4'	25:BA:2752:C:H1'	1.81	0.62
25:BA:2783:G:N1	25:BA:2784:C:C4	2.67	0.62
25:BA:293:U:H3'	25:BA:293:U:H6	1.64	0.62
25:BA:861:A:N3	26:BB:79:C:O2'	2.21	0.62
25:BA:881:G:N2	25:BA:896:A:H61	1.97	0.62
26:BB:72:G:O2'	26:BB:105:G:N2	2.32	0.62
26:BB:6:C:C2'	26:BB:7:G:O5'	2.47	0.62
27:BC:182:PRO:HG2	27:BC:183:GLU:CD	2.19	0.62
27:BC:222:VAL:O	27:BC:222:VAL:HG12	1.96	0.62
25:BA:1566:A:C6	28:BD:215:LEU:HD13	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:179:GLU:O	29:BE:181:LEU:N	2.32	0.62
29:BE:47:VAL:N	29:BE:48:GLN:HE22	1.96	0.62
31:BG:102:PHE:CE2	31:BG:106:LEU:HD12	2.34	0.62
25:BA:2312:U:H5'	31:BG:43:LEU:HG	1.81	0.62
32:BH:74:ASN:HB2	32:BH:138:LYS:HZ1	1.62	0.62
32:BH:85:LYS:NZ	32:BH:142:GLY:CA	2.62	0.62
32:BH:88:LEU:HG	32:BH:129:THR:O	1.98	0.62
33:BK:32:PRO:CD	33:BK:33:ARG:CD	2.77	0.62
35:BM:112:LEU:O	35:BM:113:GLY:C	2.36	0.62
37:BO:78:PRO:CG	37:BO:116:GLY:HA2	2.20	0.62
37:BO:7:ARG:CB	37:BO:8:PRO:HD3	2.29	0.62
25:BA:2839:G:H21	39:BQ:91:GLN:HG3	1.63	0.62
43:BU:14:VAL:CG1	43:BU:19:LYS:HE2	2.29	0.62
43:BU:53:GLU:HB3	43:BU:57:VAL:CG2	2.29	0.62
43:BU:56:SER:O	43:BU:57:VAL:CG2	2.47	0.62
25:BA:1266:G:O4'	44:BV:15:ARG:NH2	2.31	0.62
44:BV:82:LEU:H	44:BV:98:LYS:NZ	1.97	0.62
48:BZ:50:ASN:HB2	48:BZ:81:VAL:HB	1.80	0.62
25:BA:1065:U:H3'	25:BA:1066:U:H5''	1.82	0.62
5:AE:36:ARG:HE	5:AE:36:ARG:HA	1.60	0.62
1:AA:1054:C:H2'	1:AA:1055:A:C5'	2.26	0.62
1:AA:1148:U:H5'	12:AL:16:ARG:HD2	1.80	0.62
1:AA:1153:C:H2'	1:AA:1154:G:C8	2.35	0.62
1:AA:238:G:C2	1:AA:239:U:C2	2.87	0.62
1:AA:343:U:C2'	1:AA:344:A:O5'	2.47	0.62
1:AA:362:G:H4'	15:AO:28:LYS:NZ	2.14	0.62
1:AA:593:G:C2'	1:AA:594:G:H5'	2.30	0.62
1:AA:970:C:C5'	1:AA:972:C:C6	2.82	0.62
6:AF:10:PHE:CD1	6:AF:178:LEU:HD22	2.33	0.62
7:AG:125:HIS:HB3	7:AG:152:SER:HB2	1.81	0.62
7:AG:20:TYR:CE1	7:AG:21:LEU:HD23	2.34	0.62
1:AA:7:G:N2	8:AH:121:LYS:HB2	2.14	0.62
8:AH:47:LYS:HD3	8:AH:47:LYS:N	2.13	0.62
8:AH:82:VAL:O	8:AH:88:LYS:HA	2.00	0.62
9:AI:52:ILE:HD13	9:AI:87:ARG:CZ	2.29	0.62
1:AA:939:G:C5'	10:AJ:102:ARG:HH12	2.07	0.62
11:AK:134:ILE:HG22	11:AK:135:CYS:N	2.14	0.62
11:AK:32:LYS:O	11:AK:36:LEU:HD23	1.98	0.62
12:AL:17:VAL:HG13	12:AL:63:ILE:HG12	1.80	0.62
14:AN:121:PRO:HG3	14:AN:125:PHE:HB2	1.81	0.62
15:AO:86:ARG:HH12	15:AO:119:LYS:CG	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B1:2:ARG:CZ	49:B1:2:ARG:H	2.12	0.62
52:B4:41:PRO:O	52:B4:42:PRO:O	2.17	0.62
55:B7:30:ARG:NH2	55:B7:43:GLN:C	2.53	0.62
25:BA:1024:G:C5	25:BA:1025:G:N7	2.68	0.62
25:BA:1188:U:HO2'	25:BA:1189:A:H5'	1.60	0.62
25:BA:1203:G:C8	25:BA:1240:U:O4	2.52	0.62
25:BA:1275:A:H1'	39:BQ:12:ARG:NH2	2.14	0.62
25:BA:1349:A:H5'	25:BA:1350:C:H5''	1.79	0.62
25:BA:1423:G:H2'	25:BA:1424:G:H8	1.63	0.62
25:BA:1418:G:H1'	25:BA:1579:A:H61	1.64	0.62
25:BA:699:A:H2'	25:BA:1633:G:O2'	1.99	0.62
25:BA:1655:A:C2	25:BA:1656:C:H1'	2.34	0.62
25:BA:1728:G:H3'	25:BA:1728:G:OP1	1.98	0.62
25:BA:1770:G:N1	25:BA:1983:C:C4	2.68	0.62
25:BA:1952:A:C5	25:BA:1953:A:C2	2.87	0.62
25:BA:1953:A:H8	25:BA:1953:A:H3'	1.64	0.62
25:BA:2015:A:C8	25:BA:2016:U:H6	2.17	0.62
25:BA:835:A:H5'	25:BA:2358:G:H1'	1.82	0.62
25:BA:2361:A:H3'	25:BA:2362:G:C8	2.33	0.62
25:BA:2377:A:C2	40:BR:87:PHE:CZ	2.87	0.62
25:BA:2675:A:C2'	25:BA:2676:C:H5'	2.28	0.62
25:BA:2875:C:H4'	41:BS:4:GLY:H	1.61	0.62
25:BA:287:C:C2'	25:BA:288:C:C5	2.82	0.62
25:BA:402:A:N3	25:BA:402:A:H2'	2.14	0.62
25:BA:495:G:C2'	25:BA:496:G:O5'	2.48	0.62
25:BA:510:C:O2'	25:BA:511:U:H5'	2.00	0.62
25:BA:794:G:C2'	25:BA:795:C:O5'	2.48	0.62
25:BA:861:A:H62	25:BA:916:G:H21	1.47	0.62
25:BA:878:A:N3	25:BA:878:A:H2'	2.13	0.62
26:BB:40:U:C4	26:BB:43:C:OP2	2.52	0.62
27:BC:19:ILE:HG13	27:BC:223:ARG:HD3	1.81	0.62
27:BC:59:ARG:HG3	27:BC:60:GLY:H	1.62	0.62
28:BD:124:PRO:HB2	28:BD:126:GLN:HG2	1.81	0.62
28:BD:226:MET:HA	28:BD:226:MET:HE2	1.81	0.62
25:BA:2512:C:C5'	29:BE:120:TRP:CH2	2.66	0.62
29:BE:53:PRO:HD2	29:BE:74:PRO:CA	2.29	0.62
30:BF:168:ARG:HD3	30:BF:169:ASN:N	2.14	0.62
25:BA:1204:A:N1	30:BF:188:ARG:N	2.46	0.62
25:BA:600:G:H5'	30:BF:32:LEU:HD21	1.81	0.62
25:BA:1255:U:H3	30:BF:72:ARG:C	2.03	0.62
31:BG:131:TYR:CE1	31:BG:158:ALA:HA	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:135:LEU:O	31:BG:137:GLU:N	2.32	0.62
32:BH:94:TYR:CD2	32:BH:95:ARG:N	2.68	0.62
33:BK:21:VAL:O	33:BK:25:TYR:HB2	1.99	0.62
35:BM:30:ILE:HD12	35:BM:30:ILE:H	1.64	0.62
35:BM:37:LYS:CE	35:BM:43:THR:HA	2.28	0.62
35:BM:82:LEU:O	35:BM:83:LYS:O	2.16	0.62
36:BN:16:ALA:HB2	36:BN:45:GLU:O	1.99	0.62
39:BQ:25:ALA:N	39:BQ:44:LEU:HD21	2.14	0.62
39:BQ:78:LYS:HG3	39:BQ:82:GLU:HG3	1.79	0.62
41:BS:34:VAL:HG22	41:BS:36:GLU:H	1.64	0.62
43:BU:56:SER:O	43:BU:57:VAL:HG23	1.99	0.62
43:BU:90:PRO:HD2	43:BU:91:TYR:CE1	2.34	0.62
46:BX:22:GLY:HA3	46:BX:73:ARG:NH2	2.14	0.62
47:BY:14:LYS:HB2	47:BY:15:PRO:CD	2.29	0.62
25:BA:1063:G:N2	25:BA:1076:C:C4	2.67	0.62
8:AH:87:SER:HB3	8:AH:131:ILE:CG1	2.28	0.62
1:AA:1058:G:H2'	1:AA:1059:C:O4'	1.99	0.62
1:AA:1074:G:O2'	1:AA:1101:A:N6	2.32	0.62
1:AA:1081:G:O2'	1:AA:1082:G:H5'	1.98	0.62
1:AA:1186:G:H21	17:AQ:61:TRP:C	2.01	0.62
1:AA:1055:A:N6	1:AA:1206:G:C5	2.67	0.62
1:AA:1408:A:N3	1:AA:1495:U:H5	1.97	0.62
1:AA:109:A:N7	1:AA:326:G:C2	2.67	0.62
1:AA:362:G:N3	1:AA:364:A:H8	1.97	0.62
1:AA:609:A:C2	1:AA:610:G:N9	2.67	0.62
1:AA:632:A:H2'	1:AA:633:G:O4'	1.99	0.62
1:AA:571:U:OP1	1:AA:819:A:H2'	1.98	0.62
1:AA:953:G:O2'	16:AP:125:ARG:CA	2.46	0.62
5:AE:175:ARG:HG2	5:AE:179:LYS:CE	2.29	0.62
6:AF:110:ASN:HD22	6:AF:141:VAL:CA	2.09	0.62
6:AF:142:MET:HB3	6:AF:149:ALA:CB	2.29	0.62
6:AF:156:ARG:HB3	6:AF:193:TYR:HD1	1.63	0.62
6:AF:23:TYR:O	6:AF:24:ALA:HB2	1.99	0.62
7:AG:200:GLU:O	7:AG:201:GLN:C	2.37	0.62
8:AH:109:ILE:CG2	8:AH:110:LEU:HD23	2.28	0.62
8:AH:71:LEU:HD23	8:AH:73:ASN:H	1.64	0.62
10:AJ:122:HIS:H	10:AJ:122:HIS:CD2	2.16	0.62
10:AJ:38:LEU:HD12	10:AJ:41:ARG:HB2	1.81	0.62
10:AJ:71:PRO:HA	10:AJ:138:LYS:HE3	1.80	0.62
11:AK:37:ARG:HD2	11:AK:38:ILE:HD13	1.82	0.62
12:AL:28:VAL:N	12:AL:31:GLN:O	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:6:GLY:O	12:AL:17:VAL:HB	1.99	0.62
14:AN:66:LEU:HB3	14:AN:70:LYS:HE3	1.80	0.62
19:AS:67:THR:N	19:AS:70:ALA:HB3	2.14	0.62
21:AU:64:ARG:HH11	21:AU:64:ARG:HG3	1.64	0.62
21:AU:87:ARG:HH11	21:AU:87:ARG:HG2	1.64	0.62
49:B1:63:ARG:HH21	49:B1:63:ARG:HB3	1.62	0.62
50:B2:6:VAL:HB	50:B2:54:VAL:CG2	2.27	0.62
51:B3:44:THR:HG22	51:B3:45:GLY:N	2.14	0.62
52:B4:20:ARG:HA	52:B4:23:HIS:CD2	2.33	0.62
54:B6:30:VAL:CG1	54:B6:33:ARG:NH1	2.60	0.62
55:B7:40:GLU:C	55:B7:42:ARG:N	2.52	0.62
25:BA:1024:G:C6	25:BA:1025:G:C8	2.88	0.62
25:BA:1120:G:C2	25:BA:1121:C:C6	2.87	0.62
25:BA:112:U:H3'	25:BA:113:G:H5''	1.80	0.62
25:BA:1201:C:H2'	25:BA:1202:C:H5'	1.81	0.62
25:BA:122:G:C2	25:BA:130:C:C2	2.87	0.62
25:BA:1249:U:H2'	25:BA:1250:G:H8	1.63	0.62
25:BA:585:G:C5	25:BA:1251:C:C5	2.87	0.62
25:BA:1404:C:O2	25:BA:1404:C:H2'	1.99	0.62
25:BA:1472:A:C1'	25:BA:1473:G:N7	2.62	0.62
25:BA:120:U:C1'	25:BA:149:A:N3	2.60	0.62
25:BA:1524:G:H2'	25:BA:1525:G:C8	2.33	0.62
25:BA:1428:C:C5	25:BA:1569:A:H5''	2.34	0.62
25:BA:1664:A:H1'	25:BA:2726:U:O4	1.99	0.62
25:BA:1672:C:C3'	25:BA:1673:U:H5''	2.29	0.62
25:BA:1788:C:H2'	28:BD:222:ARG:CZ	2.28	0.62
25:BA:1912:A:N6	25:BA:1919:A:N9	2.47	0.62
25:BA:411:G:C2	25:BA:2407:G:C5	2.87	0.62
25:BA:2504:U:H6	25:BA:2504:U:O5'	1.82	0.62
25:BA:2591:C:H2'	25:BA:2592:G:H8	1.56	0.62
25:BA:360:G:C2'	25:BA:361:G:C5'	2.69	0.62
25:BA:400:G:C8	25:BA:400:G:H3'	2.35	0.62
25:BA:598:G:C2	25:BA:599:G:H1'	2.34	0.62
25:BA:621:A:C2'	25:BA:622:G:H5'	2.15	0.62
25:BA:602:G:N2	25:BA:655:A:H2'	2.11	0.62
25:BA:730:C:C3'	25:BA:731:C:H5'	2.29	0.62
25:BA:974:G:N7	25:BA:974(A):C:C6	2.66	0.62
25:BA:978:G:H2'	25:BA:979:G:C8	2.35	0.62
27:BC:137:LEU:HD23	27:BC:138:PRO:HD2	1.82	0.62
27:BC:194:ARG:HG3	27:BC:194:ARG:HH11	1.64	0.62
28:BD:208:LYS:NZ	28:BD:211:ARG:HE	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1901:A:O2'	28:BD:244:ARG:HD2	1.99	0.62
28:BD:91:ARG:NH1	28:BD:91:ARG:N	2.48	0.62
25:BA:2572:A:C2	29:BE:144:ARG:NH1	2.67	0.62
29:BE:91:VAL:HG22	29:BE:180:ASN:ND2	2.15	0.62
29:BE:4:ILE:O	29:BE:27:LEU:HB2	1.99	0.62
29:BE:5:LEU:HD23	29:BE:7:VAL:CG1	2.27	0.62
30:BF:18:ARG:CG	30:BF:19:GLU:N	2.61	0.62
30:BF:81:PRO:CG	30:BF:82:ILE:H	2.11	0.62
31:BG:130:ASN:ND2	31:BG:161:THR:O	2.29	0.62
32:BH:117:PRO:HB2	32:BH:121:ILE:HG23	1.80	0.62
35:BM:107:LEU:HD11	35:BM:116:LEU:HB3	1.82	0.62
35:BM:107:LEU:HD11	35:BM:113:GLY:O	2.00	0.62
35:BM:46:VAL:O	35:BM:47:ALA:HB3	2.00	0.62
36:BN:2:ILE:CG2	36:BN:32:TYR:HB3	2.29	0.62
36:BN:86:ILE:CG2	36:BN:90:GLN:HA	2.30	0.62
37:BO:108:LYS:HD3	37:BO:109:GLY:H	1.64	0.62
37:BO:13:ASN:CG	37:BO:14:LYS:N	2.53	0.62
39:BQ:3:HIS:NE2	39:BQ:4:LEU:O	2.32	0.62
40:BR:73:LEU:N	40:BR:73:LEU:HD13	2.09	0.62
42:BT:15:LYS:HG2	42:BT:18:LEU:HD11	1.81	0.62
43:BU:1:MET:HG3	43:BU:45:THR:OG1	1.99	0.62
44:BV:42:ARG:HD2	44:BV:46:PHE:HE1	1.64	0.62
44:BV:80:PRO:O	44:BV:100:THR:OG1	2.17	0.62
45:BW:68:ARG:HH11	45:BW:68:ARG:HB3	1.63	0.62
47:BY:145:GLU:O	47:BY:146:ILE:O	2.17	0.62
47:BY:49:ARG:O	47:BY:51:ALA:N	2.32	0.62
33:BK:79:ILE:CB	33:BK:144:VAL:HG23	2.25	0.62
34:BL:33:ASN:O	34:BL:37:PHE:HB2	1.98	0.62
1:AA:80:G:C2'	1:AA:81:G:O4'	2.45	0.62
25:BA:1630:G:H2'	25:BA:1630(A):C:H6	1.64	0.62
34:BL:44:ALA:O	34:BL:46:ALA:N	2.32	0.62
1:AA:248:C:H4'	1:AA:283:C:H1'	1.81	0.62
1:AA:297:G:N2	1:AA:299:G:O5'	2.32	0.62
1:AA:313:A:C2'	1:AA:314:C:C6	2.75	0.62
1:AA:30:U:O2'	1:AA:31:G:P	2.57	0.62
1:AA:577:G:H4'	1:AA:816:A:H2'	1.81	0.62
1:AA:62:U:H4'	1:AA:385:C:O2	1.99	0.62
1:AA:718:G:H22	21:AU:82:THR:HB	1.64	0.62
1:AA:943:U:C2'	1:AA:944:G:H5'	2.30	0.62
2:AC:12:G:H2'	2:AC:13:C:O5'	1.99	0.62
3:AD:76:A:C3'	25:BA:2432:A:H4'	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:178:ARG:NE	5:AE:196:LEU:HD13	2.14	0.62
5:AE:80:ILE:CG2	5:AE:215:LEU:HD12	2.26	0.62
6:AF:52:LEU:O	6:AF:53:ALA:HB2	1.99	0.62
6:AF:66:VAL:O	6:AF:66:VAL:HG12	1.97	0.62
7:AG:26:CYS:O	7:AG:33:MET:HG3	2.00	0.62
7:AG:34:GLU:O	7:AG:35:ARG:HB2	2.00	0.62
8:AH:15:ARG:HA	8:AH:28:PHE:HB3	1.82	0.62
9:AI:42:GLU:O	9:AI:42:GLU:CG	2.39	0.62
9:AI:52:ILE:CD1	9:AI:87:ARG:HE	2.12	0.62
10:AJ:75:VAL:HG13	10:AJ:87:VAL:O	1.99	0.62
10:AJ:71:PRO:HG2	10:AJ:91:VAL:CG1	2.29	0.62
12:AL:48:GLU:OE1	12:AL:51:ARG:HB2	2.00	0.62
12:AL:84:ALA:O	12:AL:87:GLN:HB2	1.99	0.62
13:AM:89:ASP:O	13:AM:90:LEU:HG	1.99	0.62
16:AP:19:LEU:HD13	16:AP:25:ILE:HG21	1.82	0.62
21:AU:49:LYS:N	21:AU:49:LYS:CD	2.58	0.62
22:AV:11:VAL:O	22:AV:12:ASP:O	2.18	0.62
23:AW:87:LYS:CE	23:AW:87:LYS:HA	2.29	0.62
25:BA:95:G:C2'	49:B1:42:ASN:HD22	2.13	0.62
50:B2:30:ARG:HD2	50:B2:30:ARG:N	2.14	0.62
51:B3:65:ASP:O	51:B3:69:LYS:HG3	1.99	0.62
54:B6:5:TRP:HZ3	54:B6:12:ARG:HH12	1.45	0.62
55:B7:52:LYS:HG2	55:B7:56:GLU:OE1	2.00	0.62
56:B8:10:ILE:HD13	56:B8:11:CYS:H	1.64	0.62
25:BA:1031:G:N2	25:BA:1124:C:N3	2.47	0.62
25:BA:1131:G:N2	25:BA:1132:A:C5	2.68	0.62
25:BA:1213:A:C6	25:BA:1237:A:H1'	2.34	0.62
25:BA:1264:G:H5''	25:BA:1265:A:C5'	2.30	0.62
25:BA:1460:A:N1	25:BA:1732:A:C2	2.68	0.62
25:BA:1545(A):A:OP2	25:BA:1546:C:C5	2.53	0.62
25:BA:1809:A:H5''	25:BA:1810:A:C2	2.34	0.62
1:AA:1418:A:C2	25:BA:1959:G:H1'	2.34	0.62
25:BA:1959:G:C2	25:BA:1960:A:C4	2.87	0.62
25:BA:2016:U:O2	25:BA:2017:U:N1	2.32	0.62
25:BA:2273:A:N7	25:BA:2274:A:C4	2.67	0.62
25:BA:2289:G:H2'	25:BA:2290:G:H5''	1.80	0.62
25:BA:2523:G:H1'	25:BA:2765:A:C5	2.32	0.62
25:BA:252:G:N2	25:BA:253:C:C1'	2.63	0.62
25:BA:2694:G:C6	25:BA:2695:C:C5	2.87	0.62
25:BA:2752:C:O2	25:BA:2752:C:H2'	1.98	0.62
25:BA:2780:G:C2'	25:BA:2781:A:H5''	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:280:C:H3'	25:BA:282:A:OP1	1.99	0.62
25:BA:285:C:H2'	25:BA:286:C:C6	2.34	0.62
25:BA:324:A:C2	25:BA:325:G:N3	2.67	0.62
25:BA:350:U:C2'	25:BA:351:G:OP1	2.46	0.62
25:BA:462:C:N3	25:BA:468:G:C2	2.68	0.62
25:BA:64:A:HO2'	25:BA:65:C:H5'	1.64	0.62
25:BA:650:C:C4	25:BA:651:G:C2	2.88	0.62
25:BA:672:C:O5'	37:BO:38:GLN:NE2	2.32	0.62
25:BA:714:U:H5'	25:BA:715:G:P	2.40	0.62
25:BA:76:C:H2'	25:BA:76:C:O2	1.99	0.62
25:BA:774:A:C1'	25:BA:775:G:C8	2.82	0.62
25:BA:943:U:C5'	37:BO:35:HIS:HE2	2.13	0.62
25:BA:954:G:N2	25:BA:964:C:O4'	2.32	0.62
25:BA:957:A:N1	25:BA:2459:A:C4'	2.63	0.62
26:BB:9:G:C5	26:BB:112:G:C6	2.88	0.62
26:BB:69:G:H2'	26:BB:69:G:N3	2.14	0.62
27:BC:100:ILE:HD13	27:BC:123:VAL:HA	1.81	0.62
27:BC:213:TYR:HA	27:BC:224:ILE:HG12	1.81	0.62
25:BA:2178:C:H5''	27:BC:46:LYS:NZ	2.15	0.62
28:BD:243:GLY:O	28:BD:244:ARG:CB	2.47	0.62
29:BE:45:THR:HG21	29:BE:80:GLU:C	2.19	0.62
30:BF:9:ILE:HG22	30:BF:17:ARG:HH22	1.63	0.62
31:BG:26:GLN:HG2	31:BG:29:TRP:CE3	2.35	0.62
37:BO:17:LYS:HZ2	37:BO:17:LYS:CB	2.08	0.62
39:BQ:79:LEU:CD2	39:BQ:80:PHE:N	2.60	0.62
40:BR:14:VAL:O	40:BR:18:ILE:HD13	1.99	0.62
40:BR:33:LYS:HG2	40:BR:54:LEU:HD13	1.82	0.62
40:BR:23:ARG:HE	40:BR:42:ASP:HB3	1.63	0.62
40:BR:42:ASP:O	40:BR:44:LYS:N	2.31	0.62
41:BS:96:ARG:NE	41:BS:117:ASP:HB3	2.14	0.62
41:BS:17:THR:C	41:BS:19:LEU:N	2.53	0.62
43:BU:15:GLU:HB3	43:BU:16:PRO:HD2	1.82	0.62
45:BW:66:LEU:HD23	45:BW:70:LEU:HA	1.82	0.62
45:BW:89:ILE:HA	45:BW:92:LEU:HD13	1.80	0.62
46:BX:13:VAL:CA	46:BX:73:ARG:HH11	2.13	0.62
46:BX:74:PRO:HB3	46:BX:101:LYS:C	2.19	0.62
47:BY:30:ASN:O	47:BY:31:ARG:C	2.38	0.62
47:BY:10:ARG:HB2	47:BY:36:LYS:HD3	1.81	0.62
47:BY:45:ASP:N	47:BY:45:ASP:OD1	2.31	0.62
47:BY:55:HIS:CG	47:BY:101:PRO:HG3	2.35	0.62
33:BK:66:GLU:HG3	33:BK:69:LYS:HZ2	1.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BL:77:LEU:HD12	34:BL:111:LYS:HD2	1.81	0.62
1:AA:1322:C:H5''	1:AA:1323:G:OP1	1.99	0.62
1:AA:1358:U:OP2	1:AA:1359:C:C5	2.53	0.62
1:AA:293:G:C2	1:AA:294:U:C6	2.87	0.62
1:AA:744:C:H4'	1:AA:852:G:O2'	1.99	0.62
1:AA:754:C:H3'	1:AA:754:C:O2	1.99	0.62
5:AE:21:ARG:NE	5:AE:21:ARG:H	1.98	0.62
5:AE:222:ILE:O	5:AE:226:ARG:HB3	2.00	0.62
5:AE:220:ASP:HA	5:AE:223:ILE:HD12	1.82	0.62
5:AE:61:LEU:CD1	5:AE:68:ILE:HG23	2.29	0.62
5:AE:81:VAL:HG12	5:AE:92:TYR:CD1	2.21	0.62
7:AG:208:SER:O	7:AG:209:ARG:CD	2.48	0.62
7:AG:64:LEU:CD1	7:AG:75:PHE:CZ	2.83	0.62
8:AH:28:PHE:HE1	8:AH:50:GLU:N	1.98	0.62
11:AK:118:VAL:O	11:AK:119:LEU:HD13	1.98	0.62
11:AK:43:GLY:O	11:AK:44:PHE:HB2	2.00	0.62
1:AA:878:G:C5'	11:AK:89:PRO:HG2	2.30	0.62
12:AL:71:SER:HA	12:AL:74:ILE:HD12	1.81	0.62
12:AL:93:ARG:NH2	12:AL:97:LYS:HE2	2.13	0.62
13:AM:83:GLU:HA	13:AM:83:GLU:OE1	2.00	0.62
1:AA:691:G:N2	14:AN:51:LYS:HZ3	1.93	0.62
17:AQ:23:ARG:HD3	17:AQ:30:ALA:HB2	1.81	0.62
1:AA:657:G:N2	18:AR:22:THR:OG1	2.33	0.62
18:AR:71:GLN:HA	18:AR:75:PRO:CB	2.30	0.62
23:AW:57:ARG:HE	23:AW:100:ILE:CD1	2.12	0.62
25:BA:2419:U:O4	55:B7:31:HIS:HE1	1.80	0.62
25:BA:1173:G:N2	25:BA:1175:U:OP2	2.28	0.62
25:BA:1264:G:C5'	25:BA:1265:A:H5''	2.30	0.62
25:BA:1538:G:H1	25:BA:1539:G:N2	1.97	0.62
25:BA:1579:A:H2'	25:BA:1580:A:C4'	2.29	0.62
25:BA:1613:G:C1'	54:B6:3:ARG:CZ	2.77	0.62
25:BA:1616:A:C4'	25:BA:1617:C:OP1	2.46	0.62
25:BA:1681:G:C4	25:BA:1762:A:N7	2.67	0.62
25:BA:1777:U:O2'	25:BA:1778:U:C5'	2.47	0.62
25:BA:1802:A:H5'	25:BA:1803:A:OP2	2.00	0.62
25:BA:1813:G:C2	28:BD:52:ARG:NH2	2.68	0.62
25:BA:1834:U:O2'	25:BA:1969:A:C4	2.51	0.62
25:BA:1911:U:C4	25:BA:1913:A:N6	2.67	0.62
25:BA:2134:A:C6	25:BA:2135:A:H2	2.18	0.62
25:BA:2215:G:C2	25:BA:2216:G:C5	2.88	0.62
25:BA:223:A:N1	25:BA:407:G:O2'	2.22	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2247:A:H2'	25:BA:2248:C:C6	2.35	0.62
25:BA:2281:C:O2'	25:BA:2282:G:O5'	2.17	0.62
25:BA:2355:C:H5''	48:BZ:25:ARG:HH21	1.64	0.62
25:BA:2584:U:C3'	25:BA:2584:U:H6	2.04	0.62
25:BA:262:A:H2'	25:BA:263:C:C5'	2.30	0.62
25:BA:2666:C:H2'	25:BA:2667:C:H5'	1.81	0.62
25:BA:2689:U:C5'	25:BA:2690:C:H5'	2.23	0.62
25:BA:2754:U:C6	25:BA:2754:U:H3'	2.34	0.62
25:BA:2826:A:H2'	25:BA:2827:C:H5'	1.82	0.62
25:BA:443:A:H4'	25:BA:1201:C:H5'	1.81	0.62
25:BA:483:A:O5'	25:BA:484:C:H5	1.81	0.62
25:BA:571:A:N3	25:BA:573:G:N7	2.48	0.62
25:BA:575:A:C2	25:BA:576:U:C2	2.87	0.62
25:BA:686:G:H4'	25:BA:687:C:OP2	1.99	0.62
25:BA:723:G:O2'	25:BA:724:U:C5'	2.48	0.62
25:BA:740:U:O5'	25:BA:1784:A:C2	2.53	0.62
25:BA:785:G:N2	25:BA:786:C:C2	2.68	0.62
25:BA:869:G:N2	25:BA:909:A:C4	2.68	0.62
25:BA:918:A:H5'	25:BA:919:G:C8	2.35	0.62
26:BB:25:A:O2'	26:BB:26:A:H5'	2.00	0.62
27:BC:74:VAL:HG13	27:BC:112:ALA:HB3	1.79	0.62
28:BD:209:ALA:O	28:BD:210:GLY:C	2.37	0.62
28:BD:46:GLN:C	28:BD:46:GLN:HE21	2.03	0.62
30:BF:117:ARG:HD2	30:BF:191:ARG:HA	1.80	0.62
30:BF:188:ARG:NH2	30:BF:188:ARG:CB	2.62	0.62
30:BF:7:TYR:OH	30:BF:23:ASP:O	2.18	0.62
16:AP:7:VAL:HG11	31:BG:140:ILE:CD1	2.28	0.62
32:BH:101:ARG:HH12	32:BH:122:THR:HA	1.64	0.62
35:BM:10:GLU:HB3	35:BM:39:ARG:HH11	1.65	0.62
36:BN:39:ILE:CD1	36:BN:59:LYS:HE3	2.30	0.62
37:BO:113:LYS:HA	37:BO:129:ALA:CB	2.29	0.62
38:BP:76:LYS:NZ	38:BP:79:LEU:HA	2.14	0.62
39:BQ:41:ALA:HB1	39:BQ:114:VAL:HG21	1.80	0.62
39:BQ:28:LEU:O	39:BQ:29:LEU:C	2.36	0.62
45:BW:12:VAL:HA	45:BW:29:TRP:NE1	2.14	0.62
45:BW:47:PHE:HZ	45:BW:92:LEU:HD21	1.63	0.62
46:BX:50:ARG:HG3	46:BX:54:LYS:CB	2.29	0.62
47:BY:129:SER:HB3	47:BY:133:ILE:HG22	1.81	0.62
34:BL:9:LYS:HG2	34:BL:56:GLU:OE2	2.00	0.62
1:AA:79:G:H2'	1:AA:80:G:O4'	2.00	0.62
1:AA:386:C:H2'	1:AA:387:U:H5'	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1217:C:H2'	1:AA:1218:C:H6	1.62	0.62
1:AA:1384:C:O2'	1:AA:1385:G:H5'	1.99	0.62
1:AA:283:C:O2	1:AA:284:G:O4'	2.16	0.62
1:AA:32:A:H2'	1:AA:33:A:C8	2.35	0.62
1:AA:418:C:H4'	1:AA:540:G:O4'	2.00	0.62
1:AA:464:G:H2'	1:AA:465:A:H5''	1.82	0.62
1:AA:659:U:H2'	1:AA:660:G:H8	1.64	0.62
3:AD:9:A:C2	3:AD:46:G:H1'	2.34	0.62
5:AE:103:THR:O	5:AE:104:ASN:HB3	1.98	0.62
6:AF:143:GLU:O	6:AF:145:GLY:N	2.31	0.62
7:AG:101:LEU:O	7:AG:101:LEU:HD12	2.00	0.62
7:AG:161:ASN:O	7:AG:165:MET:HB3	1.99	0.62
8:AH:8:GLU:HA	8:AH:34:VAL:HG22	1.82	0.62
12:AL:22:GLY:O	12:AL:58:HIS:O	2.16	0.62
1:AA:1125:U:C5	13:AM:5:ARG:NH2	2.63	0.62
14:AN:18:ARG:HD3	14:AN:34:ASP:O	2.00	0.62
14:AN:79:SER:CB	14:AN:104:GLN:HE21	2.12	0.62
16:AP:29:ARG:HD3	16:AP:64:TRP:CE2	2.33	0.62
6:AF:29:TYR:CE2	17:AQ:54:PRO:HG2	2.34	0.62
18:AR:63:ARG:HH22	18:AR:87:ILE:HD13	1.64	0.62
20:AT:4:LYS:O	20:AT:5:VAL:HG23	1.99	0.62
20:AT:80:GLY:O	20:AT:82:MET:HG2	2.00	0.62
21:AU:33:ASP:CG	21:AU:34:TYR:H	2.00	0.62
21:AU:74:ARG:NH1	21:AU:81:PHE:CB	2.63	0.62
23:AW:51:GLU:O	23:AW:55:ILE:HG13	1.99	0.62
49:B1:16:LEU:HD22	49:B1:58:VAL:HG22	1.80	0.62
49:B1:30:LEU:O	49:B1:33:GLN:HB2	1.98	0.62
50:B2:31:LEU:C	50:B2:31:LEU:HD13	2.20	0.62
51:B3:5:ILE:HD11	51:B3:9:LEU:C	2.20	0.62
25:BA:1019:U:O2	25:BA:1144:G:N2	2.32	0.62
25:BA:1296:G:C4	25:BA:1297:C:C5	2.86	0.62
25:BA:1520:U:C5	25:BA:1520:U:OP2	2.53	0.62
25:BA:1647:G:P	25:BA:1647:G:H3'	2.39	0.62
25:BA:1711:C:H2'	25:BA:1712:C:C5	2.34	0.62
25:BA:173:G:N2	25:BA:174:C:C2	2.66	0.62
25:BA:2199:A:H8	25:BA:2199:A:O5'	1.81	0.62
25:BA:2215:G:H2'	25:BA:2216:G:C8	2.35	0.62
25:BA:2457:U:C4	25:BA:2458:G:C2	2.87	0.62
25:BA:2659:G:H2'	25:BA:2660:A:H3'	1.82	0.62
25:BA:2788:C:H4'	25:BA:2810:A:C5'	2.28	0.62
25:BA:2805:G:C3'	25:BA:2807:G:C5'	2.76	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:584:C:H2'	25:BA:585:G:C5'	2.29	0.62
25:BA:592:G:C6	25:BA:593:G:C5	2.87	0.62
25:BA:790:C:O2'	25:BA:791:C:P	2.58	0.62
25:BA:973:A:C8	25:BA:973:A:H3'	2.34	0.62
28:BD:198:ASN:HD21	28:BD:201:HIS:HB2	1.64	0.62
29:BE:26:ILE:HD12	29:BE:180:ASN:O	2.00	0.62
29:BE:5:LEU:CD1	29:BE:197:ILE:CA	2.77	0.62
30:BF:9:ILE:CG1	30:BF:124:LEU:HB2	2.28	0.62
30:BF:194:MET:HE1	30:BF:197:ASP:CB	2.29	0.62
30:BF:202:PHE:CD2	30:BF:205:ARG:HD2	2.35	0.62
30:BF:41:LEU:HA	30:BF:44:ARG:CZ	2.26	0.62
31:BG:125:PHE:CZ	31:BG:130:ASN:HB2	2.34	0.62
31:BG:36:LYS:CE	31:BG:38:VAL:HG13	2.29	0.62
32:BH:113:VAL:HG12	32:BH:113:VAL:O	1.99	0.62
32:BH:7:LEU:HD23	32:BH:8:PRO:CD	2.29	0.62
35:BM:107:LEU:HD13	35:BM:117:PHE:HD1	1.65	0.62
35:BM:55:VAL:CG1	35:BM:56:ASN:N	2.62	0.62
25:BA:662:G:O2'	37:BO:18:ARG:HB2	2.00	0.62
37:BO:74:GLU:CA	37:BO:107:LYS:HD3	2.28	0.62
37:BO:79:ARG:NH2	37:BO:83:VAL:HG13	2.14	0.62
37:BO:97:PRO:HD3	37:BO:102:ARG:CZ	2.29	0.62
39:BQ:102:GLU:HG3	39:BQ:103:ARG:H	1.65	0.62
39:BQ:105:ARG:NH2	39:BQ:105:ARG:HA	2.10	0.62
42:BT:86:ALA:CB	42:BT:89:GLU:O	2.45	0.62
42:BT:83:LEU:HD23	42:BT:90:VAL:HG13	1.81	0.62
43:BU:23:GLU:OE1	43:BU:25:LEU:HD12	1.99	0.62
42:BT:88:ILE:CB	43:BU:52:VAL:HA	2.29	0.62
45:BW:62:LYS:HA	45:BW:72:LYS:HB3	1.80	0.62
47:BY:18:LEU:CD2	47:BY:23:LYS:HD3	2.30	0.62
47:BY:76:LEU:HA	47:BY:83:PRO:CB	2.27	0.62
33:BK:128:LEU:CD2	33:BK:129:THR:HG22	2.30	0.62
6:AF:160:ALA:O	6:AF:162:GLN:N	2.32	0.62
1:AA:1182:G:H4'	1:AA:1183:A:O5'	1.97	0.62
1:AA:1252:A:C6	1:AA:1253:G:N7	2.67	0.62
1:AA:1350:A:O5'	1:AA:1350:A:H8	1.82	0.62
1:AA:1461:G:H2'	1:AA:1462:G:H8	1.63	0.62
1:AA:1486:G:C2	1:AA:1487:G:C4	2.88	0.62
1:AA:1534:A:C4	1:AA:1535:C:C5	2.88	0.62
1:AA:186(B):C:C2'	1:AA:186(C):G:O5'	2.47	0.62
1:AA:236:G:C2'	1:AA:237:C:H6	2.11	0.62
1:AA:327:A:C4'	1:AA:328:C:OP1	2.44	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:34:C:H1'	15:AO:32:PHE:CE2	2.35	0.62
1:AA:564:C:C4	1:AA:565:U:C5	2.88	0.62
1:AA:821:G:H2'	1:AA:822:C:C6	2.34	0.62
1:AA:908:A:C2	1:AA:909:A:C5	2.87	0.62
1:AA:991:U:O2'	1:AA:993:G:H8	1.83	0.62
2:AC:60:U:OP2	2:AC:60:U:H6	1.81	0.62
5:AE:114:ARG:HG3	5:AE:115:LEU:N	2.12	0.62
5:AE:18:GLY:O	5:AE:19:HIS:HB2	1.97	0.62
5:AE:87:ARG:C	5:AE:89:GLY:N	2.52	0.62
7:AG:75:PHE:CD1	7:AG:93:PHE:HZ	2.17	0.62
8:AH:147:ASP:C	8:AH:150:ARG:HB2	2.20	0.62
9:AI:4:TYR:CZ	9:AI:72:VAL:HG11	2.34	0.62
9:AI:79:LEU:O	9:AI:85:VAL:HG21	1.99	0.62
10:AJ:140:ASP:O	10:AJ:144:MET:CG	2.47	0.62
10:AJ:91:VAL:O	10:AJ:92:SER:O	2.18	0.62
11:AK:112:LEU:HD11	11:AK:114:THR:CG2	2.24	0.62
13:AM:60:ARG:N	13:AM:60:ARG:NH1	2.40	0.62
1:AA:1308:U:H5'	16:AP:110:ARG:HH12	1.64	0.62
16:AP:48:LEU:HD22	16:AP:53:VAL:CG2	2.30	0.62
18:AR:63:ARG:HH12	18:AR:87:ILE:HD11	1.63	0.62
21:AU:54:ARG:HG3	21:AU:54:ARG:O	2.00	0.62
21:AU:81:PHE:O	21:AU:81:PHE:CD1	2.51	0.62
54:B6:5:TRP:HA	54:B6:5:TRP:HE3	1.62	0.62
55:B7:14:VAL:HA	55:B7:22:VAL:HG11	1.82	0.62
55:B7:6:THR:HG23	55:B7:9:GLY:HA3	1.81	0.62
25:BA:1290:C:H2'	25:BA:1291:C:H6	1.63	0.62
25:BA:1324:G:O2'	25:BA:1325:G:OP1	2.18	0.62
25:BA:1359:A:N1	25:BA:1360:A:C8	2.68	0.62
25:BA:1365:A:C5	25:BA:1366:A:N7	2.68	0.62
25:BA:149:A:C6	25:BA:150:C:C4	2.88	0.62
25:BA:1676:A:H2	25:BA:1993:U:O4'	1.82	0.62
25:BA:1743:G:H2'	25:BA:1746:G:O4'	1.99	0.62
25:BA:1773:A:H2'	25:BA:1774:C:C5'	2.29	0.62
25:BA:2046:G:H1'	52:B4:22:HIS:HD1	1.65	0.62
25:BA:213:A:N1	25:BA:214:G:C2	2.68	0.62
25:BA:2198:A:H2	25:BA:2225:A:H62	1.46	0.62
25:BA:2385:C:N3	25:BA:2386:C:C5	2.68	0.62
25:BA:411:G:H5''	25:BA:2406:U:H3'	1.82	0.62
25:BA:2419:U:H5'	53:B5:23:THR:HG21	1.82	0.62
25:BA:2069:G:C6	25:BA:2443:C:N4	2.68	0.62
25:BA:2497:A:N7	25:BA:2497:A:OP2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2805:G:H3'	25:BA:2807:G:C5'	2.18	0.62
25:BA:2630:G:H1'	25:BA:2894:G:C4	2.34	0.62
25:BA:289:A:C2	25:BA:351:G:O6	2.53	0.62
25:BA:575:A:H2'	25:BA:576:U:O4'	1.99	0.62
25:BA:630:G:H2'	25:BA:631:A:O5'	1.98	0.62
25:BA:715:G:C8	25:BA:715:G:C3'	2.81	0.62
25:BA:95:G:C2'	49:B1:43:HIS:CE1	2.79	0.62
27:BC:103:ILE:HA	27:BC:107:TRP:O	2.00	0.62
25:BA:2210:G:N7	28:BD:150:LYS:HA	2.13	0.62
28:BD:146:GLU:O	28:BD:189:CYS:HB3	1.99	0.62
28:BD:183:ARG:NH1	28:BD:268:ARG:HD2	2.15	0.62
25:BA:2513:G:P	29:BE:120:TRP:CZ3	2.87	0.62
25:BA:1657:C:C5'	29:BE:133:LYS:HA	2.30	0.62
29:BE:131:ALA:CB	29:BE:134:ILE:CG1	2.69	0.62
29:BE:127:ASP:HB2	29:BE:135:HIS:ND1	2.15	0.62
29:BE:59:VAL:C	29:BE:62:PRO:HD2	2.20	0.62
29:BE:45:THR:HG21	29:BE:80:GLU:O	1.99	0.62
30:BF:128:ALA:HB1	30:BF:142:TRP:CZ2	2.35	0.62
30:BF:194:MET:HE1	30:BF:197:ASP:HB3	1.80	0.62
31:BG:125:PHE:HB2	31:BG:131:TYR:O	2.00	0.62
32:BH:111:HIS:N	32:BH:111:HIS:ND1	2.48	0.62
35:BM:23:LEU:CD2	35:BM:61:ARG:O	2.48	0.62
35:BM:69:GLN:OE1	35:BM:87:LEU:HD22	2.00	0.62
36:BN:63:VAL:HG11	36:BN:99:PHE:CZ	2.35	0.62
36:BN:99:PHE:HZ	41:BS:72:VAL:HG11	1.62	0.62
37:BO:95:VAL:C	37:BO:97:PRO:HD2	2.20	0.62
38:BP:25:ASP:HB2	38:BP:102:VAL:H	1.64	0.62
38:BP:42:ILE:HD12	38:BP:47:ILE:HG13	1.80	0.62
39:BQ:54:LEU:HA	39:BQ:57:ARG:HB2	1.82	0.62
39:BQ:74:LYS:HD3	39:BQ:74:LYS:H	1.64	0.62
40:BR:72:ALA:HB3	40:BR:73:LEU:HD13	1.81	0.62
41:BS:11:GLU:O	41:BS:12:SER:C	2.38	0.62
41:BS:34:VAL:HG21	41:BS:36:GLU:HG3	1.81	0.62
25:BA:2848:G:C3'	41:BS:99:LEU:HD11	2.30	0.62
42:BT:88:ILE:CA	43:BU:52:VAL:HA	2.29	0.62
45:BW:8:ILE:HD11	45:BW:42:ALA:CB	2.23	0.62
46:BX:53:PRO:O	46:BX:54:LYS:C	2.38	0.62
48:BZ:11:ARG:HH11	48:BZ:11:ARG:HG2	1.65	0.62
33:BK:93:THR:H	33:BK:96:ASP:CG	2.03	0.62
1:AA:1006:C:H2'	1:AA:1006:C:O2	2.00	0.62
1:AA:842:C:H5'	1:AA:848:C:C2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:111:LYS:O	15:AO:112:ASP:HB2	2.00	0.62
1:AA:1315:U:O2	1:AA:1360:A:H2	1.83	0.62
1:AA:1513:A:H2'	1:AA:1514:C:C5	2.35	0.62
1:AA:308:C:C2'	1:AA:309:G:O5'	2.48	0.62
1:AA:901:A:H2	1:AA:902:G:H1'	1.54	0.62
1:AA:915:A:O5'	1:AA:915:A:H8	1.82	0.62
2:AC:16:C:P	2:AC:60:U:HO2'	2.22	0.62
3:AD:9:A:H5''	3:AD:10:G:OP2	1.99	0.62
5:AE:54:THR:HG23	5:AE:185:ILE:HG22	1.82	0.62
8:AH:51:VAL:HB	8:AH:52:PRO:CD	2.29	0.62
8:AH:9:LYS:HB2	8:AH:33:VAL:CG1	2.29	0.62
11:AK:37:ARG:HD3	11:AK:41:ARG:HG3	1.82	0.62
12:AL:93:ARG:CZ	12:AL:97:LYS:HG2	2.30	0.62
15:AO:117:ARG:NH2	15:AO:124:LYS:CG	2.62	0.62
17:AQ:45:ARG:HH12	17:AQ:49:HIS:CD2	2.18	0.62
23:AW:53:LEU:HD13	23:AW:101:GLY:HA2	1.81	0.62
49:B1:26:GLU:O	49:B1:29:GLU:HB2	2.00	0.62
50:B2:9:VAL:HG13	50:B2:54:VAL:CA	2.27	0.62
25:BA:819:A:OP2	25:BA:1187:G:N2	2.33	0.62
25:BA:1355:G:O2'	25:BA:1356:G:H5'	1.99	0.62
25:BA:1433:U:O2	25:BA:1560:G:O6	2.17	0.62
25:BA:1488:G:N1	25:BA:1489:U:H1'	2.14	0.62
25:BA:1608:A:C8	25:BA:1611:C:N4	2.68	0.62
25:BA:1646:C:C3'	25:BA:1647:G:H5'	2.23	0.62
25:BA:1660:C:N4	25:BA:2001:A:N6	2.47	0.62
25:BA:571:A:N9	25:BA:2030:A:N6	2.48	0.62
25:BA:2110:G:O2'	25:BA:2120:G:H5'	1.99	0.62
25:BA:2148:G:C2'	25:BA:2149:G:H8	2.09	0.62
25:BA:2097:C:N4	25:BA:2193:G:O6	2.32	0.62
25:BA:2243:U:C2	25:BA:2244:U:C5	2.88	0.62
25:BA:2386:C:O2	25:BA:2386:C:C2'	2.48	0.62
25:BA:2416:C:C2'	25:BA:2417:C:C5'	2.69	0.62
25:BA:247:G:H22	55:B7:8:LYS:CE	2.12	0.62
25:BA:2508:G:H2'	25:BA:2509:G:O5'	2.00	0.62
25:BA:2563:U:C4'	36:BN:28:SER:HB3	2.29	0.62
25:BA:2822:G:C8	39:BQ:4:LEU:HD21	2.35	0.62
25:BA:366:C:H6	25:BA:366:C:O5'	1.83	0.62
25:BA:385:C:O2'	25:BA:388:G:N2	2.32	0.62
25:BA:484:C:H2'	25:BA:485:C:C5	2.34	0.62
25:BA:493:G:H2'	25:BA:494:G:H8	1.65	0.62
25:BA:531:C:O4'	25:BA:2035:G:N2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:627:A:H5''	37:BO:75:ILE:CB	2.30	0.62
25:BA:723:G:O2'	25:BA:724:U:O4'	2.16	0.62
25:BA:728:G:O6	25:BA:762:U:C6	2.53	0.62
25:BA:828:U:H4'	25:BA:831:G:C2	2.34	0.62
25:BA:923:C:H4'	48:BZ:26:TYR:CE1	2.35	0.62
25:BA:948:G:H1'	25:BA:984:A:C2	2.35	0.62
26:BB:103:U:H6	26:BB:103:U:C5'	2.11	0.62
26:BB:73:A:N6	26:BB:104:A:H1'	2.14	0.62
26:BB:44:G:H4'	26:BB:45:A:O5'	1.99	0.62
26:BB:97:G:C6	26:BB:98:G:C8	2.87	0.62
28:BD:42:GLY:CA	28:BD:60:ARG:HH22	2.12	0.62
30:BF:6:VAL:CA	30:BF:20:LEU:HD11	2.29	0.62
32:BH:118:PRO:CD	32:BH:121:ILE:HG21	2.29	0.62
32:BH:145:ALA:O	32:BH:148:ILE:HG22	2.00	0.62
35:BM:23:LEU:HD11	35:BM:62:VAL:CA	2.30	0.62
36:BN:18:LYS:CD	36:BN:44:LYS:HD2	2.30	0.62
39:BQ:24:GLN:HB2	39:BQ:44:LEU:HD21	1.82	0.62
40:BR:67:ARG:HE	40:BR:71:ARG:HB3	1.64	0.62
43:BU:6:LYS:HB3	43:BU:10:LYS:HA	1.81	0.62
43:BU:62:LEU:HD13	43:BU:97:LYS:C	2.19	0.62
45:BW:34:ALA:O	45:BW:35:THR:O	2.18	0.62
47:BY:149:SER:HB2	47:BY:173:ALA:CB	2.29	0.62
47:BY:2:GLU:OE2	47:BY:69:THR:HG22	2.00	0.62
33:BK:81:VAL:HG21	33:BK:123:LEU:CD1	2.30	0.62
1:AA:1219:U:O2'	22:AV:34:TRP:HB3	2.00	0.62
1:AA:1265:G:O6	1:AA:1266:G:C2	2.52	0.62
1:AA:1316:G:H8	1:AA:1316:G:O5'	1.82	0.62
1:AA:1400:C:C4'	1:AA:1401:G:OP2	2.44	0.62
1:AA:1465:C:O2	1:AA:1466:C:O4'	2.16	0.62
1:AA:1487:G:C2'	1:AA:1488:G:O5'	2.48	0.62
1:AA:1405:G:O4'	1:AA:1519:A:H4'	2.00	0.62
1:AA:1534:A:C8	1:AA:1534:A:P	2.89	0.62
1:AA:163:C:O2'	1:AA:164:U:H5'	2.00	0.62
1:AA:237:C:H5''	20:AT:25:ARG:NH2	2.15	0.62
1:AA:247:G:N2	1:AA:282:A:C2	2.66	0.62
1:AA:484:G:O4'	1:AA:486:U:C6	2.53	0.62
1:AA:656:C:C2'	1:AA:657:G:H5'	2.30	0.62
1:AA:796:C:O2'	1:AA:797:C:H5'	2.00	0.62
2:AC:9:G:N2	2:AC:46:G:N7	2.47	0.62
3:AD:18:G:H2'	3:AD:19:G:C4'	2.29	0.62
5:AE:139:LYS:CG	5:AE:140:HIS:N	2.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:163:PHE:CE2	5:AE:186:ALA:HA	2.35	0.62
5:AE:193:ASP:OD2	5:AE:196:LEU:CG	2.48	0.62
7:AG:127:THR:HB	7:AG:147:ALA:H	1.65	0.62
7:AG:191:ARG:HH22	7:AG:194:LEU:C	2.02	0.62
10:AJ:64:GLN:CB	10:AJ:128:ALA:HB1	2.25	0.62
10:AJ:87:VAL:HG13	10:AJ:152:ALA:HA	1.82	0.62
10:AJ:78:ARG:HD2	10:AJ:79:ARG:H	1.65	0.62
11:AK:63:LEU:HD12	11:AK:65:TYR:OH	1.99	0.62
17:AQ:14:PRO:O	17:AQ:15:LYS:C	2.38	0.62
17:AQ:24:CYS:HB2	17:AQ:39:LEU:C	2.20	0.62
18:AR:71:GLN:HG3	18:AR:75:PRO:HB3	1.81	0.62
19:AS:51:VAL:CG2	19:AS:73:LEU:HD11	2.30	0.62
20:AT:9:VAL:O	20:AT:11:VAL:HG23	2.00	0.62
21:AU:21:LYS:HZ1	21:AU:23:LYS:HB2	1.65	0.62
1:AA:1320:C:O2'	22:AV:73:GLU:HB3	2.00	0.62
25:BA:1309:G:H5''	54:B6:9:ARG:H	1.65	0.62
25:BA:1030:G:N2	25:BA:1031:G:N3	2.48	0.62
25:BA:1183:G:C3'	25:BA:1183:G:OP2	2.48	0.62
25:BA:1201:C:H41	25:BA:1241:A:H61	1.41	0.62
25:BA:1338:G:N3	25:BA:1393:A:H2	1.97	0.62
25:BA:1444(A):A:N1	25:BA:1461:G:H3'	2.14	0.62
25:BA:1605:C:H3'	25:BA:1606:G:H8	1.64	0.62
25:BA:1613:G:H3'	25:BA:1614:A:H5''	1.82	0.62
25:BA:1692:U:C1'	25:BA:1696:G:H22	2.12	0.62
25:BA:1759:A:H4'	25:BA:2715:C:O4'	1.99	0.62
25:BA:1790:C:C3'	25:BA:1828:G:H22	2.13	0.62
25:BA:1799:G:C2'	25:BA:1800:C:O5'	2.48	0.62
25:BA:2074:U:H2'	25:BA:2597:G:N2	2.12	0.62
25:BA:2121:G:H1'	27:BC:167:LYS:HZ1	1.63	0.62
25:BA:2149:G:O2'	25:BA:2150:U:H5'	2.00	0.62
25:BA:2167:U:N3	25:BA:2168:G:C5	2.56	0.62
25:BA:2274:A:N7	25:BA:2276:G:C8	2.68	0.62
25:BA:220:G:H4'	25:BA:234:C:C4'	2.30	0.62
25:BA:2282:G:N3	25:BA:2425:A:N7	2.47	0.62
25:BA:2457:U:H2'	25:BA:2458:G:O4'	1.99	0.62
25:BA:2469:A:H4'	38:BP:56:ARG:HD3	1.82	0.62
25:BA:2538:C:C2	25:BA:2539:C:C5	2.88	0.62
25:BA:2897:U:H2'	25:BA:2898:U:O4'	2.00	0.62
25:BA:364:C:O2'	25:BA:365:C:H5'	2.00	0.62
25:BA:388:G:N2	25:BA:390:A:N1	2.48	0.62
25:BA:412:A:C2	25:BA:413:C:C1'	2.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:529:A:N7	25:BA:2042:A:N1	2.48	0.62
25:BA:537:C:H2'	25:BA:539:G:C8	2.34	0.62
25:BA:647:G:H2'	25:BA:648:G:C8	2.35	0.62
25:BA:64:A:H4'	45:BW:73:ARG:H	1.64	0.62
25:BA:669:G:N3	25:BA:669:G:C2'	2.63	0.62
25:BA:70:G:H4'	25:BA:71:A:C5'	2.30	0.62
25:BA:684:G:C4	25:BA:775:G:O6	2.53	0.62
25:BA:858:U:H5''	25:BA:859:G:H21	1.65	0.62
25:BA:865:C:O2	25:BA:865:C:H2'	1.98	0.62
25:BA:89:G:P	25:BA:90:U:H5'	2.40	0.62
26:BB:76:G:P	47:BY:11:GLU:HA	2.39	0.62
26:BB:81:G:H2'	26:BB:82:G:H5'	1.81	0.62
27:BC:5:LYS:C	27:BC:7:TYR:N	2.53	0.62
25:BA:729:G:O2'	28:BD:17:THR:HG21	1.99	0.62
28:BD:109:ASP:N	28:BD:196:VAL:O	2.33	0.62
29:BE:117:MET:SD	29:BE:136:ARG:HB2	2.39	0.62
25:BA:1657:C:P	29:BE:136:ARG:HD3	2.40	0.62
29:BE:171:GLU:OE2	29:BE:173:VAL:HA	1.99	0.62
30:BF:125:LEU:CD2	30:BF:128:ALA:HB2	2.28	0.62
30:BF:4:VAL:O	30:BF:4:VAL:HG12	2.00	0.62
30:BF:74:ARG:O	30:BF:75:HIS:CB	2.48	0.62
30:BF:80:ALA:HB3	30:BF:82:ILE:HD11	1.81	0.62
32:BH:90:LYS:O	32:BH:90:LYS:HD3	1.99	0.62
33:BK:33:ARG:HD2	33:BK:33:ARG:H	1.64	0.62
36:BN:18:LYS:NZ	36:BN:20:MET:HE2	2.15	0.62
36:BN:31:LYS:C	36:BN:32:TYR:CD2	2.73	0.62
37:BO:126:VAL:HB	37:BO:146:VAL:H	1.65	0.62
37:BO:97:PRO:CB	37:BO:102:ARG:NH1	2.62	0.62
38:BP:83:MET:CE	38:BP:83:MET:N	2.62	0.62
39:BQ:44:LEU:CD1	39:BQ:48:VAL:CG2	2.78	0.62
40:BR:29:PHE:HB2	40:BR:36:TYR:O	2.00	0.62
41:BS:50:ILE:HG22	41:BS:68:TYR:N	2.14	0.62
1:AA:1004:A:H8	1:AA:1036:G:O6	1.83	0.62
28:BD:273:ARG:CB	28:BD:273:ARG:NH1	2.63	0.62
27:BC:71:GLN:HG3	27:BC:72:VAL:N	2.13	0.62
1:AA:1132:C:C4	1:AA:1133:G:N7	2.68	0.61
1:AA:1154:G:H2'	1:AA:1155:G:C8	2.29	0.61
1:AA:1316:G:C5'	17:AQ:17:LYS:HD2	2.30	0.61
1:AA:1382:C:O2'	1:AA:1383:C:H5'	1.99	0.61
1:AA:1418:A:C6	1:AA:1483:A:N6	2.68	0.61
1:AA:15:G:H2'	1:AA:16:A:C8	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:15:G:H4'	8:AH:24:ARG:NH2	2.14	0.61
1:AA:178:C:C2	1:AA:179:A:C8	2.88	0.61
1:AA:274:A:O2'	1:AA:275:G:C8	2.47	0.61
1:AA:32:A:H2'	1:AA:33:A:H8	1.65	0.61
1:AA:399:G:H2'	1:AA:400:C:C6	2.34	0.61
1:AA:580:U:C3'	1:AA:581:G:H8	2.10	0.61
1:AA:923:A:O5'	1:AA:923:A:H8	1.83	0.61
3:AD:2:C:H2'	3:AD:3:C:C6	2.35	0.61
5:AE:55:PHE:HE2	5:AE:218:ALA:CA	2.01	0.61
6:AF:195:VAL:C	6:AF:196:LEU:HD23	2.21	0.61
6:AF:39:ILE:N	6:AF:94:LEU:HD11	2.15	0.61
7:AG:20:TYR:CA	7:AG:33:MET:SD	2.88	0.61
7:AG:87:GLY:O	7:AG:89:THR:N	2.33	0.61
9:AI:57:GLN:HE21	9:AI:57:GLN:C	2.02	0.61
9:AI:94:GLN:CB	21:AU:32:ARG:HH21	2.13	0.61
11:AK:18:ARG:HG3	11:AK:18:ARG:NH1	2.13	0.61
11:AK:65:TYR:O	11:AK:67:PRO:HD3	2.00	0.61
13:AM:39:PRO:HA	13:AM:69:ASN:O	1.99	0.61
14:AN:19:ALA:HB3	14:AN:82:VAL:HG22	1.82	0.61
15:AO:43:VAL:CG1	15:AO:44:THR:N	2.59	0.61
15:AO:61:THR:O	15:AO:62:SER:CB	2.48	0.61
17:AQ:45:ARG:CZ	17:AQ:45:ARG:HB2	2.30	0.61
18:AR:13:GLN:O	18:AR:14:GLU:C	2.37	0.61
19:AS:37:GLY:HA3	19:AS:50:LYS:O	2.00	0.61
19:AS:51:VAL:CG1	19:AS:74:LEU:HD23	2.30	0.61
20:AT:60:ILE:HG12	20:AT:61:GLU:N	2.12	0.61
22:AV:77:THR:HG23	22:AV:78:ARG:HG2	1.82	0.61
50:B2:37:LEU:HD12	50:B2:43:ILE:CB	2.29	0.61
51:B3:5:ILE:HD11	51:B3:10:VAL:CG2	2.20	0.61
51:B3:64:GLY:O	51:B3:68:ARG:CZ	2.47	0.61
25:BA:688:U:OP2	54:B6:2:LYS:HE2	2.00	0.61
25:BA:1178:C:H2'	25:BA:1179:C:H6	1.63	0.61
25:BA:1222:C:N3	25:BA:1223:C:C5	2.68	0.61
25:BA:1314:C:H2'	25:BA:1315:C:H6	1.63	0.61
25:BA:1373:A:C8	25:BA:1374:G:N7	2.68	0.61
25:BA:1479:G:N2	25:BA:1515:C:N3	2.47	0.61
25:BA:1656:C:H5'	29:BE:136:ARG:HD2	1.81	0.61
25:BA:1742:C:H3'	25:BA:1743:G:C5'	2.30	0.61
25:BA:1814:G:H3'	25:BA:1815:A:H8	1.65	0.61
25:BA:1965:C:C2'	25:BA:1966:A:N7	2.59	0.61
25:BA:2013:A:OP1	25:BA:2013:A:H4'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2040:C:N3	25:BA:2041:U:C5	2.68	0.61
25:BA:2135:A:H4'	25:BA:2136:C:C5	2.35	0.61
25:BA:2269:A:C2	25:BA:2270:G:H1'	2.35	0.61
25:BA:2330:G:H22	25:BA:2385:C:N4	1.98	0.61
25:BA:2352:A:C2	48:BZ:34:GLY:HA3	2.34	0.61
25:BA:2393:A:H5''	37:BO:56:SER:HA	1.81	0.61
25:BA:2450:A:H2'	25:BA:2451:A:H5'	1.80	0.61
25:BA:2490:G:O2'	25:BA:2491:U:C5'	2.47	0.61
25:BA:2514:U:O5'	25:BA:2514:U:H6	1.82	0.61
25:BA:2517:C:HO2'	25:BA:2518:A:H3'	1.64	0.61
25:BA:2712:U:C3'	25:BA:2714:G:OP2	2.48	0.61
25:BA:2793:G:C6	25:BA:2794:C:C4	2.88	0.61
25:BA:323:G:C5'	25:BA:324:A:OP1	2.44	0.61
25:BA:458:G:C8	54:B6:39:ARG:HG3	2.34	0.61
25:BA:528:A:C8	25:BA:528:A:H3'	2.35	0.61
25:BA:723:G:H2'	25:BA:724:U:C6	2.31	0.61
25:BA:728:G:C4'	25:BA:729:G:C8	2.83	0.61
25:BA:797:C:N3	25:BA:798:G:N7	2.48	0.61
25:BA:817:C:H2'	25:BA:818:G:C8	2.35	0.61
25:BA:829:A:H5''	25:BA:830:G:H5'	1.81	0.61
25:BA:864:G:H2'	25:BA:865:C:C1'	2.30	0.61
25:BA:865:C:N4	25:BA:909:A:N6	2.30	0.61
26:BB:10:C:H6	26:BB:10:C:O5'	1.83	0.61
28:BD:101:GLU:HG2	28:BD:102:LYS:N	2.15	0.61
28:BD:130:ALA:HA	28:BD:193:VAL:HG23	1.81	0.61
25:BA:2210:G:N7	28:BD:68:LYS:HE2	2.15	0.61
29:BE:111:ARG:H	29:BE:161:GLY:CA	2.13	0.61
29:BE:5:LEU:HD22	29:BE:196:VAL:O	2.00	0.61
30:BF:118:ALA:O	30:BF:122:LYS:HB2	1.99	0.61
31:BG:57:ALA:HA	31:BG:67:LYS:HA	1.80	0.61
36:BN:47:ILE:HG13	36:BN:50:GLY:HA3	1.82	0.61
36:BN:78:ARG:O	36:BN:80:ASP:N	2.33	0.61
38:BP:34:LEU:HD23	38:BP:131:ILE:HD13	1.82	0.61
38:BP:38:GLU:OE2	38:BP:38:GLU:N	2.33	0.61
38:BP:16:ARG:HG2	38:BP:73:PRO:CD	2.29	0.61
39:BQ:24:GLN:O	39:BQ:25:ALA:C	2.38	0.61
25:BA:581:C:OP1	42:BT:32:PHE:HB2	1.99	0.61
43:BU:22:VAL:HG12	43:BU:24:LYS:HE2	1.82	0.61
44:BV:42:ARG:HD2	44:BV:46:PHE:CE1	2.35	0.61
44:BV:82:LEU:HD12	44:BV:84:ARG:CG	2.30	0.61
45:BW:43:VAL:HG12	45:BW:49:VAL:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1065:U:C2'	25:BA:1066:U:H5''	2.30	0.61
1:AA:1039:C:N4	1:AA:1040:U:O4	2.33	0.61
32:BH:110:SER:C	32:BH:112:PRO:HD2	2.20	0.61
1:AA:1125:U:H4'	1:AA:1126:U:H5	1.64	0.61
1:AA:1191:A:H5''	6:AF:4:LYS:HZ2	1.65	0.61
1:AA:1270:C:O5'	1:AA:1270:C:H6	1.83	0.61
1:AA:1413:A:H61	1:AA:1487:G:H1	1.48	0.61
1:AA:401:C:OP2	7:AG:73:ARG:NH1	2.33	0.61
1:AA:777:A:C2'	1:AA:778:G:H8	2.12	0.61
1:AA:933:G:C2	1:AA:935:A:O4'	2.53	0.61
1:AA:975:A:N6	1:AA:1366:C:O2'	2.32	0.61
2:AC:3:C:O2'	2:AC:4:G:H5'	1.99	0.61
6:AF:108:ASN:ND2	6:AF:110:ASN:HB2	2.14	0.61
6:AF:126:ARG:O	6:AF:127:ARG:CB	2.48	0.61
7:AG:20:TYR:HA	7:AG:31:CYS:SG	2.40	0.61
10:AJ:132:GLY:O	10:AJ:136:LYS:CB	2.48	0.61
11:AK:40:ALA:HB2	11:AK:45:ILE:HG12	1.81	0.61
11:AK:6:ILE:C	11:AK:6:ILE:CD1	2.68	0.61
12:AL:34:ASN:OD1	12:AL:43:ALA:HB2	2.00	0.61
13:AM:15:THR:OG1	13:AM:94:VAL:HG23	2.00	0.61
15:AO:24:VAL:HG13	15:AO:98:TYR:HE2	1.62	0.61
9:AI:2:ARG:HH22	18:AR:2:PRO:HG2	1.64	0.61
19:AS:21:VAL:HG21	19:AS:59:TRP:HD1	1.60	0.61
21:AU:73:ALA:CB	21:AU:79:LEU:HD21	2.31	0.61
22:AV:15:LEU:HG	22:AV:16:LEU:N	2.15	0.61
1:AA:333:G:H4'	23:AW:16:HIS:CD2	2.35	0.61
23:AW:73:HIS:O	23:AW:76:ALA:HB3	2.00	0.61
49:B1:27:LEU:CD2	49:B1:48:LEU:HB3	2.29	0.61
51:B3:58:ARG:C	51:B3:61:ARG:HB2	2.20	0.61
52:B4:9:LYS:O	52:B4:10:LYS:HG2	2.00	0.61
25:BA:125:G:N2	54:B6:13:ALA:HB3	2.15	0.61
55:B7:7:HIS:O	55:B7:10:ALA:HB3	1.99	0.61
55:B7:22:VAL:O	55:B7:48:PHE:CG	2.53	0.61
25:BA:1129:A:H4'	25:BA:2516:G:H5'	1.80	0.61
25:BA:1494:A:C2	25:BA:1495:A:O4'	2.52	0.61
25:BA:1565:C:C4	25:BA:1567:A:C1'	2.82	0.61
25:BA:1351:C:O2'	25:BA:1571:A:H1'	2.00	0.61
25:BA:1775:U:O2	28:BD:208:LYS:CE	2.40	0.61
25:BA:1779:U:C3'	25:BA:1779:U:C6	2.82	0.61
25:BA:1788:C:C2'	28:BD:222:ARG:NE	2.62	0.61
25:BA:1935:G:C1'	25:BA:1964:G:N2	2.62	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2234:G:O2'	25:BA:2235:G:H5'	1.98	0.61
25:BA:2549:G:C3'	25:BA:2550:G:C5'	2.78	0.61
25:BA:27:G:N2	25:BA:512:G:C2'	2.63	0.61
25:BA:2825:C:N4	25:BA:2826:A:H62	1.97	0.61
25:BA:2791:C:C5	25:BA:2893:G:N7	2.63	0.61
25:BA:299:A:O2'	25:BA:319:C:C4'	2.41	0.61
25:BA:375:C:H2'	25:BA:376:C:C6	2.35	0.61
25:BA:619:G:H3'	25:BA:619:G:C8	2.35	0.61
25:BA:685:A:H5'	25:BA:687:C:C5	2.35	0.61
25:BA:784:A:OP1	25:BA:2588:G:C5'	2.47	0.61
25:BA:918:A:C2'	26:BB:80:U:H1'	2.30	0.61
26:BB:99:A:O2'	26:BB:100:G:H5'	2.00	0.61
26:BB:32:C:C2	26:BB:33:G:N7	2.69	0.61
27:BC:108:MET:SD	27:BC:131:LEU:HD22	2.40	0.61
27:BC:156:ILE:HA	27:BC:160:ARG:CG	2.30	0.61
27:BC:181:PRO:O	27:BC:184:LYS:HB2	1.99	0.61
29:BE:164:ARG:CG	29:BE:165:VAL:N	2.63	0.61
29:BE:98:PRO:HA	29:BE:172:VAL:HG23	1.82	0.61
30:BF:105:VAL:HA	30:BF:108:LYS:HE3	1.82	0.61
25:BA:2305:A:P	31:BG:136:ARG:HE	2.23	0.61
32:BH:60:ARG:HD2	32:BH:61:HIS:CD2	2.35	0.61
32:BH:70:THR:O	32:BH:73:ALA:HB3	2.01	0.61
32:BH:95:ARG:N	32:BH:95:ARG:HD2	2.13	0.61
33:BK:21:VAL:HB	33:BK:26:ALA:CA	2.30	0.61
35:BM:15:LEU:CG	35:BM:139:GLU:HG2	2.31	0.61
35:BM:67:LEU:N	35:BM:87:LEU:HD21	2.15	0.61
36:BN:15:GLY:H	36:BN:52:VAL:CG1	2.12	0.61
37:BO:124:LYS:HZ1	37:BO:141:ALA:HB3	1.64	0.61
38:BP:48:GLU:HA	38:BP:51:ARG:HG2	1.82	0.61
38:BP:48:GLU:O	38:BP:49:ALA:C	2.38	0.61
38:BP:74:TYR:CE1	38:BP:94:VAL:HG13	2.35	0.61
39:BQ:83:ILE:HG23	39:BQ:86:ARG:HH21	1.63	0.61
40:BR:23:ARG:HB3	40:BR:24:LEU:HD12	1.83	0.61
41:BS:32:TYR:CD2	41:BS:88:ILE:HA	2.32	0.61
35:BM:42:TRP:CH2	42:BT:67:ALA:CB	2.84	0.61
42:BT:85:LYS:HD3	42:BT:116:ALA:O	1.98	0.61
43:BU:66:ARG:HH21	43:BU:95:LEU:HD12	1.65	0.61
45:BW:12:VAL:HB	45:BW:27:THR:C	2.19	0.61
45:BW:49:VAL:C	45:BW:50:LYS:HD3	2.20	0.61
46:BX:108:THR:HG22	46:BX:109:GLU:OE1	1.99	0.61
47:BY:55:HIS:CD2	47:BY:101:PRO:HG3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:127:LYS:HZ1	47:BY:163:LEU:HD23	1.65	0.61
26:BB:75:G:H21	47:BY:85:HIS:CE1	2.18	0.61
25:BA:2255:G:O2'	48:BZ:7:LEU:HD23	2.00	0.61
25:BA:1079:C:H2'	25:BA:1080:C:H5'	1.82	0.61
34:BL:108:ALA:HB2	34:BL:127:ILE:HD11	1.82	0.61
39:BQ:60:LEU:HD23	39:BQ:60:LEU:N	2.13	0.61
52:B4:39:MET:O	52:B4:39:MET:SD	2.58	0.61
32:BH:20:ALA:CB	32:BH:21:PRO:CD	2.78	0.61
1:AA:1048:G:H5''	17:AQ:3:ARG:NH1	2.16	0.61
1:AA:1107:C:C2'	1:AA:1108:G:H5'	2.20	0.61
1:AA:60:A:H62	1:AA:110:C:N4	1.97	0.61
1:AA:1256:A:O3'	1:AA:1257:U:H4'	2.01	0.61
1:AA:1261:A:H61	1:AA:1274:G:C1'	2.11	0.61
1:AA:1149:C:O2'	1:AA:1280:A:N1	2.28	0.61
1:AA:1315:U:O2'	1:AA:1360:A:N3	2.26	0.61
1:AA:1401:G:H2'	1:AA:1402:C:H5'	1.82	0.61
1:AA:1488:G:C6	1:AA:1489:G:N7	2.68	0.61
1:AA:20:U:C2'	1:AA:20:U:O2	2.48	0.61
1:AA:406:G:N2	1:AA:407:G:C5	2.68	0.61
1:AA:50:A:N6	1:AA:361:G:H5'	2.15	0.61
1:AA:523:A:H8	1:AA:523:A:O5'	1.83	0.61
1:AA:696:A:N3	1:AA:697:U:O4'	2.34	0.61
1:AA:900:A:C4	1:AA:901:A:N7	2.68	0.61
1:AA:961:U:C6	1:AA:983:A:C4	2.88	0.61
1:AA:976:G:OP2	1:AA:1358:U:H1'	2.01	0.61
3:AD:58:A:H2'	3:AD:61:C:C4	2.36	0.61
5:AE:162:ILE:O	5:AE:185:ILE:HG13	1.99	0.61
7:AG:205:GLU:OE1	8:AH:100:VAL:N	2.28	0.61
10:AJ:78:ARG:HE	10:AJ:80:VAL:CG2	2.12	0.61
1:AA:1349:A:OP2	12:AL:118:LYS:HB3	2.00	0.61
12:AL:17:VAL:HG13	12:AL:63:ILE:CG1	2.30	0.61
13:AM:5:ARG:HB2	13:AM:5:ARG:CZ	2.30	0.61
14:AN:100:ALA:C	14:AN:102:GLY:H	2.04	0.61
15:AO:113:ARG:NH2	15:AO:115:LYS:O	2.34	0.61
16:AP:14:ARG:HB3	16:AP:44:ARG:HD2	1.81	0.61
16:AP:48:LEU:HD13	16:AP:53:VAL:CG2	2.21	0.61
21:AU:58:LEU:CB	21:AU:62:GLU:HB3	2.20	0.61
22:AV:51:VAL:HB	22:AV:58:VAL:CG2	2.29	0.61
50:B2:13:ILE:CG2	50:B2:14:GLY:N	2.63	0.61
50:B2:50:VAL:HG12	50:B2:51:ALA:N	2.14	0.61
50:B2:55:ARG:HA	50:B2:55:ARG:CZ	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1365:A:OP2	51:B3:3:GLU:OE1	2.18	0.61
25:BA:1204:A:P	25:BA:1204:A:O4'	2.58	0.61
25:BA:1240:U:H2'	25:BA:1241:A:N3	2.15	0.61
25:BA:1244:G:H4'	37:BO:9:ASN:CB	2.24	0.61
25:BA:1251:C:P	42:BT:10:ARG:HE	2.22	0.61
25:BA:1299:G:H4'	25:BA:1301:A:C4	2.36	0.61
25:BA:1286:A:C2	25:BA:1329:U:C6	2.88	0.61
25:BA:1336:A:O2'	25:BA:1337:G:H5'	1.99	0.61
25:BA:1399:C:O2'	25:BA:1400:G:H5'	2.00	0.61
25:BA:1581:G:H2'	25:BA:1582:C:C6	2.35	0.61
25:BA:1697:G:C8	25:BA:1698:A:H5''	2.36	0.61
25:BA:1833:U:H2'	25:BA:1834:U:O4'	2.00	0.61
25:BA:1918:A:H3'	25:BA:1919:A:H62	1.64	0.61
25:BA:1935:G:O2'	25:BA:1940:U:O4	2.19	0.61
25:BA:1945:G:H5'	25:BA:1945:G:C8	2.35	0.61
25:BA:1827:C:C1'	25:BA:1970:A:H2	2.04	0.61
25:BA:2060:A:OP1	30:BF:69:HIS:HA	2.00	0.61
25:BA:2078:C:H1'	25:BA:2434:A:N3	2.13	0.61
25:BA:2166:G:N2	25:BA:2172:U:O4	2.21	0.61
25:BA:2226:C:O2	25:BA:2227:A:N9	2.32	0.61
25:BA:2285:C:H1'	25:BA:2288:A:N7	2.14	0.61
25:BA:234:C:H42	25:BA:430:G:H22	1.47	0.61
25:BA:945:A:C4	25:BA:2448:A:C6	2.88	0.61
25:BA:2547:U:C5	25:BA:2566:A:C5	2.89	0.61
25:BA:2610:C:H4'	25:BA:2611:U:O5'	1.98	0.61
25:BA:2653:U:C5	25:BA:2654:A:N7	2.68	0.61
25:BA:2663:G:C8	25:BA:2664:G:N7	2.68	0.61
25:BA:2679:A:O2'	25:BA:2680:C:H5'	2.00	0.61
25:BA:271(C):U:H2'	25:BA:271:G:O4'	2.00	0.61
25:BA:2745:C:H41	25:BA:2756:U:H5	0.72	0.61
25:BA:2792:G:N2	25:BA:2793:G:C6	2.68	0.61
25:BA:2831:G:O2'	25:BA:2883:A:H2'	2.00	0.61
25:BA:479:A:H1'	25:BA:480:A:H8	1.65	0.61
25:BA:525:U:OP1	25:BA:556:G:H5'	2.00	0.61
25:BA:58:G:H1'	25:BA:70:G:N2	2.15	0.61
25:BA:687:C:H2'	25:BA:688:U:C6	2.35	0.61
25:BA:874:G:C2'	25:BA:874:G:N3	2.59	0.61
25:BA:89:G:C5	25:BA:90:U:H5	2.19	0.61
25:BA:974(A):C:O2'	25:BA:1186:G:N2	2.33	0.61
25:BA:2227:A:C5'	28:BD:260:ARG:HB2	2.30	0.61
29:BE:202:LYS:C	29:BE:204:ALA:N	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:49:LEU:HD11	29:BE:51:PHE:CD1	2.35	0.61
30:BF:160:ASN:ND2	30:BF:195:ASP:OD2	2.34	0.61
30:BF:33:LEU:O	30:BF:36:VAL:HG12	1.99	0.61
25:BA:2312:U:C4'	31:BG:43:LEU:HD11	2.30	0.61
35:BM:68:GLU:H	35:BM:69:GLN:NE2	1.97	0.61
35:BM:89:LYS:HG2	35:BM:90:MET:N	2.16	0.61
25:BA:623:G:P	37:BO:105:LEU:HD11	2.40	0.61
37:BO:126:VAL:H	37:BO:145:PRO:HA	1.65	0.61
37:BO:13:ASN:CG	37:BO:14:LYS:H	2.04	0.61
37:BO:91:PHE:CE2	37:BO:96:THR:HG22	2.35	0.61
38:BP:27:VAL:HG13	38:BP:28:ALA:H	1.65	0.61
26:BB:50:G:O3'	40:BR:61:ASN:HA	2.00	0.61
25:BA:2376:A:N6	40:BR:94:TYR:CE1	2.68	0.61
41:BS:34:VAL:C	41:BS:36:GLU:N	2.52	0.61
41:BS:23:ARG:NH1	41:BS:90:GLN:N	2.48	0.61
42:BT:63:VAL:HA	42:BT:66:ASN:ND2	2.09	0.61
43:BU:24:LYS:C	43:BU:26:ASP:H	2.02	0.61
44:BV:59:VAL:CG2	44:BV:66:GLU:HA	2.30	0.61
26:BB:76:G:OP2	47:BY:11:GLU:HA	1.98	0.61
47:BY:24:LEU:HB2	47:BY:41:LEU:HD21	1.83	0.61
47:BY:95:PRO:HD2	47:BY:130:PRO:CA	2.28	0.61
25:BA:1056:G:O4'	25:BA:1056:G:OP2	2.18	0.61
6:AF:157:ILE:O	6:AF:157:ILE:HG22	1.99	0.61
32:BH:25:LYS:NZ	32:BH:27:LYS:HZ2	1.97	0.61
1:AA:86:U:OP2	1:AA:87:A:N1	2.33	0.61
8:AH:87:SER:HB3	8:AH:131:ILE:CD1	2.30	0.61
1:AA:1117:G:O2'	12:AL:106:ALA:HB2	2.00	0.61
1:AA:110:C:H2'	1:AA:111:G:C5'	2.29	0.61
1:AA:1156:G:H1'	1:AA:1179:A:H61	1.64	0.61
1:AA:1273:G:H3'	1:AA:1274:G:H8	1.63	0.61
1:AA:1516:G:H22	1:AA:1518:A:H3'	1.65	0.61
1:AA:429:U:C3'	7:AG:22:LYS:HZ2	2.13	0.61
1:AA:865:A:H2'	1:AA:866:C:O2	2.01	0.61
1:AA:22:G:C4'	1:AA:885:G:C8	2.72	0.61
1:AA:939:G:OP1	10:AJ:99:LEU:HD11	2.00	0.61
2:AC:74:C:H5	2:AC:75:C:O2	1.83	0.61
2:AC:7:G:H4'	2:AC:8:U:OP2	1.99	0.61
5:AE:130:ARG:NE	5:AE:130:ARG:HA	2.15	0.61
5:AE:175:ARG:O	5:AE:176:GLU:C	2.39	0.61
5:AE:187:LEU:HD22	5:AE:187:LEU:C	2.21	0.61
6:AF:22:TRP:CZ2	17:AQ:54:PRO:HG3	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:64:VAL:HG12	6:AF:66:VAL:HG23	1.82	0.61
7:AG:187:ARG:HG3	7:AG:188:LEU:HG	1.82	0.61
10:AJ:36:LYS:CB	10:AJ:36:LYS:HZ2	2.12	0.61
12:AL:15:ALA:HB1	12:AL:77:ILE:HA	1.80	0.61
12:AL:28:VAL:HG11	12:AL:36:TYR:HB3	1.83	0.61
12:AL:49:PRO:HG3	12:AL:78:LYS:O	2.00	0.61
13:AM:31:GLY:CA	13:AM:81:THR:OG1	2.48	0.61
15:AO:6:THR:O	15:AO:10:LEU:HG	2.00	0.61
15:AO:41:ARG:CZ	15:AO:41:ARG:HB3	2.30	0.61
16:AP:97:PRO:CB	16:AP:101:GLN:HB2	2.29	0.61
16:AP:37:THR:CG2	16:AP:56:LEU:HD22	2.30	0.61
18:AR:42:HIS:ND1	18:AR:43:LEU:N	2.49	0.61
19:AS:5:ARG:NH1	19:AS:24:ALA:HA	2.10	0.61
19:AS:54:GLU:O	19:AS:55:ARG:C	2.39	0.61
21:AU:22:VAL:CG2	21:AU:55:ARG:HH12	2.10	0.61
22:AV:53:ASN:HD21	22:AV:58:VAL:CG1	2.12	0.61
23:AW:43:LEU:CD1	23:AW:55:ILE:HD11	2.30	0.61
49:B1:3:LYS:HZ2	49:B1:6:GLU:HG3	1.64	0.61
53:B5:19:ARG:NH1	53:B5:43:CYS:CB	2.62	0.61
37:BO:56:SER:O	55:B7:13:ARG:NH1	2.33	0.61
55:B7:30:ARG:HD2	55:B7:44:LYS:CD	2.31	0.61
25:BA:1128:A:C5	25:BA:2518:A:N6	2.61	0.61
25:BA:146:G:C2'	25:BA:147:U:H5''	2.31	0.61
25:BA:1507:A:C2'	25:BA:1507:A:N3	2.61	0.61
25:BA:1549:C:O2'	25:BA:1550:C:H5'	2.00	0.61
25:BA:1718:G:N2	25:BA:1742:C:C2	2.60	0.61
25:BA:1964:G:N1	25:BA:1967:C:C5	2.68	0.61
25:BA:2057:A:N7	25:BA:2058:A:N6	2.48	0.61
25:BA:2493:U:C3'	25:BA:2493:U:C6	2.83	0.61
25:BA:2578:G:N2	25:BA:2579:C:C4	2.69	0.61
25:BA:2625:G:H1	25:BA:2777:G:N2	1.97	0.61
25:BA:2655:G:H2'	25:BA:2655:G:N3	2.16	0.61
25:BA:2825:C:N3	25:BA:2826:A:C5	2.68	0.61
25:BA:2875:C:H5''	41:BS:3:ARG:CD	2.27	0.61
25:BA:29:U:C2	25:BA:30:G:N7	2.67	0.61
25:BA:309:G:H5'	25:BA:310:A:OP2	2.00	0.61
25:BA:363(C):G:H2'	25:BA:363(D):G:H5'	1.82	0.61
25:BA:402:A:N1	25:BA:403:U:H6	1.98	0.61
25:BA:622:G:O2'	25:BA:623:G:C5'	2.48	0.61
25:BA:675:A:O2'	25:BA:676:A:H5'	2.00	0.61
25:BA:740:U:O2'	25:BA:741:G:OP1	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:820:A:C2'	25:BA:821:A:C5'	2.70	0.61
25:BA:878:A:H2	25:BA:879:G:H3'	1.65	0.61
25:BA:878:A:H2'	25:BA:879:G:H5''	1.81	0.61
25:BA:911:A:N6	25:BA:2277:G:O2'	2.33	0.61
25:BA:974:G:H1'	25:BA:1186:G:C8	2.35	0.61
25:BA:995:C:H42	35:BM:3:THR:CB	2.13	0.61
26:BB:45:A:H2'	26:BB:46:A:O5'	2.00	0.61
27:BC:120:MET:HE1	27:BC:138:PRO:HB2	1.81	0.61
28:BD:89:SER:HB2	28:BD:159:ALA:HB2	1.81	0.61
25:BA:1789:A:O2'	28:BD:222:ARG:NH1	2.33	0.61
30:BF:9:ILE:HG13	30:BF:124:LEU:HB2	1.83	0.61
31:BG:79:ASN:O	31:BG:82:LEU:HD21	1.99	0.61
32:BH:26:VAL:HG21	32:BH:75:ALA:HB1	1.82	0.61
33:BK:34:GLY:H	33:BK:35:LEU:HD22	1.64	0.61
35:BM:23:LEU:HD23	35:BM:60:ILE:HG22	1.82	0.61
35:BM:23:LEU:CG	35:BM:62:VAL:HA	2.29	0.61
35:BM:69:GLN:HE21	35:BM:69:GLN:CA	2.14	0.61
38:BP:27:VAL:HG23	38:BP:138:ASP:CG	2.11	0.61
38:BP:42:ILE:H	38:BP:94:VAL:CG2	2.14	0.61
39:BQ:17:ARG:HG2	39:BQ:18:LEU:H	1.66	0.61
39:BQ:41:ALA:O	39:BQ:42:LYS:C	2.36	0.61
39:BQ:5:LYS:NZ	39:BQ:6:SER:N	2.48	0.61
40:BR:106:ARG:CZ	40:BR:110:LEU:HB2	2.29	0.61
29:BE:14:ILE:CD1	41:BS:14:TYR:HB3	2.31	0.61
43:BU:15:GLU:OE1	43:BU:100:ARG:NH1	2.34	0.61
44:BV:7:ALA:HB3	44:BV:103:ILE:HD11	1.81	0.61
44:BV:5:ALA:HB1	44:BV:50:VAL:CG1	2.28	0.61
47:BY:141:VAL:O	47:BY:143:GLY:N	2.32	0.61
47:BY:5:LEU:HB2	47:BY:23:LYS:HZ3	1.65	0.61
47:BY:43:GLU:N	47:BY:43:GLU:OE1	2.34	0.61
47:BY:95:PRO:HB2	47:BY:131:ARG:H	1.64	0.61
48:BZ:29:GLN:HB3	48:BZ:67:VAL:HG21	1.82	0.61
48:BZ:72:ARG:HB3	48:BZ:75:LEU:HB2	1.82	0.61
25:BA:1062:G:N7	25:BA:1077:A:C2	2.68	0.61
25:BA:1065:U:H2'	25:BA:1066:U:H5''	1.82	0.61
34:BL:70:LYS:HB3	34:BL:114:ASP:CG	2.21	0.61
7:AG:159:ARG:HD3	7:AG:163:GLU:HB2	1.81	0.61
1:AA:1018:C:O2'	1:AA:1019:C:H5'	2.01	0.61
1:AA:1197:G:OP1	1:AA:1198:G:OP2	2.18	0.61
1:AA:1213:A:C2	1:AA:1215:G:C4	2.88	0.61
1:AA:60:A:H4'	1:AA:61:G:O5'	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:735:C:O2'	1:AA:736:C:C5'	2.49	0.61
1:AA:755:G:H21	11:AK:1:MET:CE	2.13	0.61
1:AA:979:C:H2'	1:AA:980:C:C5'	2.31	0.61
2:AC:17:C:H5'	2:AC:18:G:H5''	1.82	0.61
3:AD:75:C:C5'	3:AD:76:A:O2'	2.49	0.61
5:AE:167:PRO:O	5:AE:169:LYS:N	2.33	0.61
5:AE:168:THR:OG1	5:AE:191:ASP:O	2.18	0.61
5:AE:71:VAL:O	5:AE:164:VAL:HG23	2.00	0.61
6:AF:14:ILE:HG21	6:AF:179:ARG:CA	2.15	0.61
6:AF:36:ASP:OD2	6:AF:40:ARG:NH1	2.34	0.61
6:AF:94:LEU:O	6:AF:94:LEU:HD23	1.99	0.61
7:AG:57:ARG:HG3	7:AG:202:LEU:O	2.00	0.61
8:AH:56:GLN:O	8:AH:59:GLY:N	2.32	0.61
8:AH:72:GLN:HE21	8:AH:144:THR:HG23	1.64	0.61
8:AH:82:VAL:HG21	8:AH:134:ALA:O	2.00	0.61
15:AO:82:VAL:N	15:AO:106:ASP:OD1	2.27	0.61
16:AP:11:ARG:NH1	16:AP:46:LYS:HB3	2.16	0.61
16:AP:59:TYR:CD2	16:AP:60:VAL:HG23	2.36	0.61
20:AT:44:ALA:CB	20:AT:59:ILE:HD13	2.29	0.61
20:AT:80:GLY:O	20:AT:82:MET:N	2.32	0.61
21:AU:34:TYR:HD1	21:AU:35:ARG:N	1.97	0.61
21:AU:58:LEU:HB2	21:AU:63:GLN:OE1	2.01	0.61
23:AW:73:HIS:O	23:AW:74:LYS:C	2.38	0.61
50:B2:11:SER:H	50:B2:12:PRO:CD	2.14	0.61
51:B3:22:ILE:HD12	51:B3:28:LYS:O	2.00	0.61
25:BA:397:G:OP2	51:B3:59:PHE:HZ	1.80	0.61
51:B3:5:ILE:HD12	51:B3:9:LEU:N	2.15	0.61
25:BA:2526:G:H1'	56:B8:35:ARG:HH12	1.66	0.61
25:BA:1143:A:N3	25:BA:1144:G:C8	2.68	0.61
25:BA:1380:G:C2'	25:BA:1381:G:H5'	2.30	0.61
25:BA:1469:A:H2'	25:BA:1470:G:C5'	2.29	0.61
25:BA:1570:A:N1	25:BA:1571:A:N7	2.48	0.61
25:BA:1718:G:C8	25:BA:1725:G:N7	2.69	0.61
25:BA:1775:U:O4	25:BA:1776:G:C5	2.54	0.61
25:BA:1804:C:P	28:BD:257:LEU:HD22	2.40	0.61
25:BA:1267:U:C5	25:BA:2012:G:N2	2.68	0.61
25:BA:2120:G:H21	27:BC:167:LYS:HZ1	1.37	0.61
25:BA:2305:A:C5	31:BG:42:GLY:HA2	2.36	0.61
25:BA:2446:G:H8	25:BA:2446:G:O5'	1.84	0.61
25:BA:2460:U:H2'	25:BA:2461:C:C6	2.36	0.61
25:BA:2458:G:C8	25:BA:2490:G:O6	2.53	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2729:G:C5	25:BA:2730:C:C5	2.88	0.61
25:BA:281:G:H5'	25:BA:428:A:N9	2.16	0.61
25:BA:2844:G:N2	25:BA:2845:G:C1'	2.64	0.61
25:BA:530:G:O2'	25:BA:532:A:O5'	2.18	0.61
25:BA:710:G:H2'	25:BA:711:G:H8	1.65	0.61
25:BA:716:A:O2'	25:BA:717:G:H5'	2.00	0.61
25:BA:685:A:C2	25:BA:774:A:N1	2.69	0.61
26:BB:55:U:H2'	26:BB:56:G:H8	1.65	0.61
26:BB:61:G:C2	26:BB:62:C:C4	2.88	0.61
26:BB:69:G:C5'	26:BB:70:C:OP2	2.48	0.61
27:BC:115:ALA:HB3	27:BC:120:MET:SD	2.41	0.61
28:BD:46:GLN:OE1	28:BD:51:VAL:HG23	2.01	0.61
30:BF:122:LYS:CD	30:BF:124:LEU:HD12	2.24	0.61
30:BF:66:PRO:O	30:BF:68:LYS:N	2.32	0.61
31:BG:161:THR:OG1	31:BG:163:ALA:HB3	2.01	0.61
31:BG:47:LYS:HZ3	31:BG:72:ARG:C	2.04	0.61
31:BG:47:LYS:NZ	31:BG:73:ALA:CB	2.64	0.61
32:BH:154:PRO:O	32:BH:155:SER:CB	2.48	0.61
35:BM:136:GLU:OE1	35:BM:136:GLU:C	2.38	0.61
37:BO:77:ARG:HA	37:BO:115:LEU:HB2	1.82	0.61
38:BP:104:PHE:HD1	38:BP:104:PHE:H	1.49	0.61
38:BP:109:VAL:HG13	38:BP:113:GLN:CD	2.21	0.61
38:BP:42:ILE:HD13	38:BP:42:ILE:C	2.20	0.61
25:BA:2880:C:O2'	39:BQ:90:ARG:HD3	2.00	0.61
41:BS:53:ARG:HH22	41:BS:102:ILE:N	1.98	0.61
41:BS:30:VAL:C	41:BS:32:TYR:CZ	2.74	0.61
42:BT:62:ILE:O	42:BT:66:ASN:ND2	2.33	0.61
44:BV:27:LYS:H	44:BV:27:LYS:CD	2.11	0.61
46:BX:26:LYS:N	46:BX:36:ALA:O	2.32	0.61
34:BL:131:ALA:HB1	34:BL:136:VAL:CG1	2.29	0.61
51:B3:14:ILE:HD13	51:B3:15:ILE:C	2.20	0.61
1:AA:1120:G:C8	1:AA:1120:G:O5'	2.53	0.61
26:BB:89:G:H2'	26:BB:89(A):A:C5	2.35	0.61
33:BK:105:HIS:HD2	33:BK:105:HIS:O	1.83	0.61
1:AA:1109:C:O2'	1:AA:1110:A:H5'	2.00	0.61
1:AA:1435:G:C2	1:AA:1436:U:O4	2.53	0.61
1:AA:1451:A:H2'	1:AA:1452:C:OP1	2.01	0.61
1:AA:251:G:C2	1:AA:266:G:O6	2.54	0.61
1:AA:406:G:H5''	7:AG:5:ILE:HG23	1.81	0.61
1:AA:720:C:H4'	21:AU:50:ILE:HG22	1.83	0.61
3:AD:19:G:H21	3:AD:57:G:C1'	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:72:C:H2'	3:AD:73:A:C8	2.36	0.61
1:AA:1104:G:H4'	5:AE:111:ARG:NH2	2.16	0.61
7:AG:109:GLY:O	7:AG:110:PHE:C	2.38	0.61
7:AG:191:ARG:HH21	7:AG:194:LEU:CB	2.14	0.61
8:AH:129:ILE:O	8:AH:132:ALA:HB3	1.99	0.61
9:AI:14:LEU:CD1	9:AI:15:ASP:H	2.14	0.61
10:AJ:37:ASN:O	10:AJ:41:ARG:HG3	2.01	0.61
10:AJ:75:VAL:CG2	10:AJ:88:PRO:HB3	2.29	0.61
11:AK:6:ILE:O	11:AK:6:ILE:HD13	2.00	0.61
11:AK:9:MET:O	11:AK:10:LEU:C	2.38	0.61
13:AM:45:ARG:CB	13:AM:45:ARG:HH11	2.01	0.61
1:AA:1316:G:C4'	17:AQ:17:LYS:HD2	2.31	0.61
13:AM:49:VAL:HG22	17:AQ:41:ARG:HB2	1.81	0.61
19:AS:3:LYS:HB3	19:AS:3:LYS:HZ2	1.66	0.61
20:AT:13:ASP:O	20:AT:15:MET:N	2.33	0.61
20:AT:66:SER:CB	20:AT:69:LYS:NZ	2.64	0.61
1:AA:836:G:P	21:AU:61:LYS:NZ	2.73	0.61
49:B1:27:LEU:CG	49:B1:48:LEU:HB3	2.30	0.61
49:B1:36:ILE:O	49:B1:38:GLN:HG3	2.01	0.61
51:B3:40:HIS:HB3	51:B3:41:PRO:CD	2.30	0.61
55:B7:20:GLY:C	55:B7:57:ARG:NH2	2.54	0.61
55:B7:5:LYS:HD3	55:B7:63:PRO:CG	2.30	0.61
56:B8:7:VAL:HG13	56:B8:25:VAL:HG21	1.82	0.61
25:BA:1020:A:N3	25:BA:1140:C:O2	2.33	0.61
25:BA:1188:U:C2'	25:BA:1189:A:C5'	2.79	0.61
25:BA:1206:G:C3'	25:BA:1206:G:C8	2.81	0.61
25:BA:1451:C:H6	25:BA:1453:A:HO2'	1.49	0.61
25:BA:1510:A:C4	25:BA:1511:A:C2	2.89	0.61
25:BA:1699:G:C8	25:BA:1763:G:N2	2.69	0.61
25:BA:1363:C:O3'	25:BA:1809:A:N6	2.32	0.61
25:BA:1916:A:OP1	25:BA:1916:A:H3'	2.00	0.61
25:BA:1919:A:H2'	25:BA:1920:C:H5'	1.81	0.61
25:BA:1958:C:C2	25:BA:1959:G:C8	2.89	0.61
25:BA:1967:C:O2'	25:BA:1968:G:OP1	2.17	0.61
25:BA:2346:A:C2	25:BA:2383:G:C2	2.88	0.61
25:BA:239:U:C2	25:BA:240:G:C8	2.88	0.61
25:BA:2450:A:H2	25:BA:2451:A:N9	1.98	0.61
25:BA:280:C:C3'	25:BA:281:G:H3'	2.30	0.61
25:BA:236:C:H4'	25:BA:431:U:H1'	1.82	0.61
25:BA:513:A:C2	25:BA:514:A:C8	2.89	0.61
25:BA:569:U:N3	25:BA:570:G:N1	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:786:C:H2'	25:BA:787:U:H5'	1.81	0.61
25:BA:919:G:C2'	25:BA:920:G:H8	2.13	0.61
26:BB:12:C:O5'	48:BZ:74:ARG:HG2	2.00	0.61
26:BB:27:C:H3'	26:BB:28:C:C6	2.35	0.61
26:BB:42:C:N3	31:BG:93:THR:HB	2.15	0.61
27:BC:10:LEU:HD13	27:BC:13:LYS:HD2	1.81	0.61
27:BC:156:ILE:HA	27:BC:160:ARG:CB	2.30	0.61
27:BC:212:VAL:HG11	27:BC:226:PRO:CG	2.29	0.61
28:BD:151:LYS:O	28:BD:154:LYS:HE2	1.99	0.61
28:BD:186:HIS:HB2	28:BD:188:GLU:OE1	2.00	0.61
29:BE:8:LYS:NZ	29:BE:193:GLY:HA3	2.15	0.61
30:BF:110:LEU:HD11	30:BF:181:LEU:HG	1.82	0.61
30:BF:110:LEU:HD11	30:BF:181:LEU:CG	2.31	0.61
31:BG:90:LEU:O	31:BG:90:LEU:HD13	2.01	0.61
35:BM:109:LYS:CE	35:BM:110:GLY:N	2.55	0.61
35:BM:66:LYS:HA	35:BM:69:GLN:OE1	2.00	0.61
25:BA:1667:G:OP1	36:BN:6:THR:CA	2.49	0.61
37:BO:46:LYS:HD2	37:BO:50:ARG:HB2	1.82	0.61
25:BA:833:U:O4'	37:BO:48:PRO:HD2	2.01	0.61
38:BP:25:ASP:HB2	38:BP:102:VAL:CG1	2.28	0.61
42:BT:3:ARG:O	42:BT:4:ALA:HB2	2.01	0.61
46:BX:19:LYS:HD2	46:BX:40:GLU:OE1	1.99	0.61
47:BY:124:ILE:CG2	47:BY:125:LEU:N	2.64	0.61
47:BY:141:VAL:C	47:BY:143:GLY:H	2.03	0.61
34:BL:95:LYS:HE3	47:BY:112:ARG:HG2	1.81	0.61
1:AA:1090:U:O2'	1:AA:1091:U:O4'	2.15	0.61
1:AA:1157:A:H4'	1:AA:1158:C:C2	2.36	0.61
1:AA:1158:C:C5	1:AA:1160:G:H1'	2.35	0.61
1:AA:16:A:H1'	8:AH:17:ALA:HB3	1.83	0.61
1:AA:421:U:C2	6:AF:127:ARG:NH1	2.69	0.61
1:AA:720:C:H6	1:AA:720:C:O5'	1.83	0.61
1:AA:764:C:C2'	1:AA:765:G:H8	2.08	0.61
5:AE:165:VAL:CG2	5:AE:166:ASP:H	2.07	0.61
5:AE:234:PRO:HB2	5:AE:238:LEU:CD2	2.30	0.61
6:AF:5:ILE:HG22	13:AM:51:ARG:HH22	1.66	0.61
10:AJ:70:LYS:HA	10:AJ:100:ALA:CB	2.30	0.61
12:AL:10:ARG:CZ	12:AL:105:ASP:OD2	2.48	0.61
19:AS:81:ARG:HG2	19:AS:83:GLU:CG	2.28	0.61
20:AT:97:SER:CB	20:AT:104:LYS:H	2.14	0.61
51:B3:37:SER:OG	51:B3:38:LYS:N	2.33	0.61
25:BA:2045:C:O2	52:B4:22:HIS:CE1	2.54	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2623:G:H22	52:B4:22:HIS:CE1	2.18	0.61
53:B5:19:ARG:C	53:B5:43:CYS:SG	2.79	0.61
53:B5:19:ARG:HH11	53:B5:43:CYS:HB2	1.64	0.61
54:B6:31:LEU:O	54:B6:35:ARG:HG3	2.00	0.61
25:BA:116:C:C2'	25:BA:117:G:O5'	2.49	0.61
25:BA:1206:G:H2'	25:BA:1207:C:O4'	1.99	0.61
25:BA:149:A:N7	25:BA:150:C:C2	2.69	0.61
25:BA:1617:C:OP2	25:BA:1617:C:O4'	2.17	0.61
25:BA:1631:A:N6	25:BA:1683:C:H5'	2.16	0.61
25:BA:1707:G:C1'	25:BA:1756:G:H1'	2.30	0.61
25:BA:1769:G:H2'	25:BA:1770:G:H8	1.64	0.61
25:BA:1363:C:C3'	25:BA:1809:A:N7	2.64	0.61
25:BA:18:C:O5'	25:BA:18:C:H6	1.84	0.61
25:BA:1915:U:OP1	25:BA:1915:U:H3'	1.99	0.61
25:BA:1935:G:C2'	25:BA:1962:C:H42	2.14	0.61
25:BA:1943:U:H6	25:BA:1943:U:OP1	1.83	0.61
25:BA:2009:G:O2'	25:BA:2010:G:H5'	2.01	0.61
25:BA:226:G:O2'	25:BA:228:A:N1	2.34	0.61
25:BA:2378:A:H5''	25:BA:2379:G:OP2	2.01	0.61
25:BA:416:C:N3	25:BA:2407:G:O6	2.34	0.61
25:BA:2530:A:C3'	25:BA:2531:A:C5'	2.73	0.61
25:BA:2587:A:H8	25:BA:2587:A:O5'	1.84	0.61
25:BA:2785:C:C2	25:BA:2786:U:C5	2.88	0.61
25:BA:292:C:H2'	25:BA:293:U:N3	2.16	0.61
25:BA:40:C:H2'	25:BA:41:C:C6	2.36	0.61
25:BA:266:G:N2	25:BA:427:U:H3	1.99	0.61
25:BA:591:C:H2'	55:B7:1:MET:HB3	1.82	0.61
25:BA:60:G:C2	25:BA:68:G:C2	2.87	0.61
25:BA:747:U:O2'	25:BA:748:G:OP1	2.15	0.61
25:BA:889:C:H2'	25:BA:890:A:O4'	2.01	0.61
25:BA:920:G:N3	25:BA:921:G:C8	2.69	0.61
26:BB:7:G:O2'	26:BB:8:U:OP1	2.19	0.61
27:BC:163:PHE:HZ	27:BC:195:ALA:CB	2.11	0.61
27:BC:59:ARG:CZ	27:BC:164:ARG:NH1	2.63	0.61
29:BE:200:GLU:HB3	29:BE:202:LYS:NZ	2.15	0.61
29:BE:25:VAL:O	29:BE:181:LEU:HA	2.01	0.61
30:BF:157:VAL:O	30:BF:158:THR:OG1	2.14	0.61
30:BF:41:LEU:C	30:BF:41:LEU:HD12	2.21	0.61
32:BH:126:PRO:HG2	32:BH:130:ARG:O	2.00	0.61
35:BM:55:VAL:CG1	35:BM:127:ASP:HA	2.30	0.61
37:BO:27:HIS:CE1	43:BU:82:ARG:O	2.53	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:99:LEU:HD22	37:BO:101:VAL:HG22	1.81	0.61
39:BQ:100:LEU:HD21	39:BQ:113:LEU:HB2	1.80	0.61
40:BR:88:ASP:C	40:BR:88:ASP:OD1	2.39	0.61
41:BS:85:LYS:HG2	41:BS:88:ILE:HD11	1.80	0.61
42:BT:112:ARG:NH2	43:BU:50:PRO:CD	2.63	0.61
43:BU:43:GLU:N	43:BU:44:LYS:HE2	2.15	0.61
45:BW:54:VAL:HG22	45:BW:81:VAL:CG2	2.31	0.61
46:BX:31:LEU:HB3	46:BX:32:PRO:CD	2.31	0.61
47:BY:60:GLU:OE1	47:BY:67:LEU:HB2	2.01	0.61
47:BY:57:ILE:HG12	47:BY:69:THR:C	2.21	0.61
47:BY:77:ASP:H	47:BY:83:PRO:HA	1.66	0.61
25:BA:2354:G:C1'	48:BZ:35:ASN:HA	2.31	0.61
48:BZ:54:GLY:C	48:BZ:56:ASP:H	2.04	0.61
34:BL:103:GLN:C	34:BL:106:GLU:HG3	2.21	0.61
2:AC:25:C:H2'	2:AC:26:G:C8	2.35	0.61
1:AA:524:G:H2'	1:AA:525:C:O4'	2.00	0.61
1:AA:108:G:H5'	1:AA:109:A:H5''	1.82	0.61
1:AA:1206:G:H2'	1:AA:1207:G:C8	2.34	0.61
1:AA:1347:G:N7	12:AL:107:ARG:CZ	2.64	0.61
1:AA:263:A:OP1	23:AW:75:ASN:ND2	2.33	0.61
1:AA:290:C:H2'	1:AA:291:C:O4'	2.00	0.61
1:AA:46:G:C2	1:AA:396:G:C6	2.89	0.61
1:AA:513:C:H2'	1:AA:514:C:C6	2.36	0.61
1:AA:20:U:C6	1:AA:572:A:C2	2.88	0.61
1:AA:56:U:O2'	1:AA:57:G:H5'	2.01	0.61
1:AA:705:U:C6	1:AA:706:A:N7	2.69	0.61
1:AA:800:G:C8	1:AA:800:G:O5'	2.50	0.61
1:AA:950:U:C2'	1:AA:951:G:H5'	2.31	0.61
1:AA:955:U:C2	1:AA:956:U:C5	2.88	0.61
5:AE:95:GLN:HA	5:AE:95:GLN:OE1	2.00	0.61
7:AG:206:PHE:CD2	7:AG:207:TYR:CD1	2.89	0.61
7:AG:19:LEU:HA	7:AG:21:LEU:HD12	1.83	0.61
7:AG:74:GLN:CA	7:AG:77:ASN:HD22	2.01	0.61
8:AH:149:GLU:O	8:AH:152:ARG:N	2.34	0.61
10:AJ:94:ARG:HH11	10:AJ:94:ARG:C	2.04	0.61
12:AL:22:GLY:HA3	12:AL:60:ASP:CG	2.19	0.61
13:AM:51:ARG:HB2	13:AM:59:SER:O	2.00	0.61
14:AN:42:TRP:CE3	14:AN:43:SER:HA	2.34	0.61
1:AA:974:A:OP1	17:AQ:31:ARG:HG2	2.01	0.61
18:AR:18:PHE:O	18:AR:20:GLY:N	2.34	0.61
21:AU:47:THR:O	21:AU:47:THR:HG22	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B1:3:LYS:HA	49:B1:6:GLU:CG	2.31	0.61
49:B1:27:LEU:CD1	49:B1:48:LEU:HB3	2.29	0.61
50:B2:17:LYS:CA	50:B2:20:LYS:HD3	2.24	0.61
51:B3:18:CYS:O	51:B3:33:VAL:HG23	2.01	0.61
52:B4:17:ASP:C	52:B4:21:SER:OG	2.39	0.61
52:B4:25:LEU:CG	52:B4:26:THR:H	2.13	0.61
56:B8:10:ILE:CD1	56:B8:11:CYS:H	2.13	0.61
25:BA:1119:C:H2'	25:BA:1120:G:H8	1.64	0.61
25:BA:1422:G:N2	25:BA:1423:G:C4	2.69	0.61
25:BA:1717:G:H1	25:BA:1718:G:N2	1.98	0.61
25:BA:1729:A:C8	25:BA:1730:U:O4'	2.53	0.61
25:BA:1839:G:H2'	25:BA:1839:G:N3	2.15	0.61
25:BA:1890:A:H3'	25:BA:1891:G:H8	1.66	0.61
25:BA:2046:G:O5'	52:B4:19:ARG:HA	2.00	0.61
25:BA:2286:A:N6	53:B5:32:ASN:N	2.48	0.61
25:BA:2314:C:O2'	25:BA:2315:G:H5'	2.00	0.61
25:BA:2396:G:H4'	51:B3:27:THR:HA	1.81	0.61
25:BA:2436:G:C5	25:BA:2437:U:C5	2.88	0.61
25:BA:270(N):G:H3'	25:BA:270(O):U:C6	2.36	0.61
25:BA:2856:C:O2'	25:BA:2857:G:H5'	2.00	0.61
25:BA:324:A:N1	25:BA:325:G:C2	2.69	0.61
25:BA:391:G:O2'	25:BA:392:C:H5'	2.00	0.61
25:BA:482:A:N6	25:BA:506:G:C6	2.69	0.61
25:BA:30:G:C6	25:BA:511:U:O2	2.54	0.61
25:BA:526:A:C2	25:BA:2626:C:O4'	2.53	0.61
25:BA:595:C:H2'	25:BA:596:G:H8	1.66	0.61
25:BA:618:G:C5	25:BA:618(A):C:C5	2.88	0.61
25:BA:832:G:H2'	25:BA:833:U:H5	1.65	0.61
25:BA:943:U:H3'	25:BA:943:U:C6	2.36	0.61
25:BA:969:U:H2'	25:BA:970:C:C6	2.36	0.61
26:BB:37:C:O2	26:BB:49:C:H5'	2.00	0.61
26:BB:69:G:C2	26:BB:70:C:C6	2.88	0.61
26:BB:73:A:H2'	26:BB:74:U:H6	1.66	0.61
27:BC:97:GLU:O	27:BC:101:GLN:HG2	2.00	0.61
27:BC:211:SER:HB2	27:BC:213:TYR:OH	2.00	0.61
25:BA:2175:C:OP1	27:BC:5:LYS:CG	2.49	0.61
28:BD:144:ALA:HA	28:BD:156:ALA:HA	1.83	0.61
28:BD:159:ALA:CB	28:BD:202:LYS:CE	2.79	0.61
28:BD:246:PRO:HA	28:BD:252:TRP:CZ3	2.36	0.61
28:BD:181:GLU:CD	28:BD:270:ILE:HB	2.21	0.61
28:BD:5:LYS:HG2	28:BD:29:PRO:CA	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:190:GLY:O	29:BE:191:PRO:O	2.19	0.61
29:BE:84:PHE:CG	29:BE:85:ASN:N	2.68	0.61
30:BF:24:LEU:N	30:BF:25:PRO:HD2	2.15	0.61
31:BG:125:PHE:HB2	31:BG:131:TYR:H	1.65	0.61
37:BO:20:GLY:O	37:BO:21:ARG:HB2	2.01	0.61
37:BO:49:ARG:CG	37:BO:49:ARG:NH2	2.55	0.61
40:BR:4:LEU:O	40:BR:8:GLU:HG3	2.00	0.61
26:BB:51:G:OP1	40:BR:60:GLY:O	2.19	0.61
41:BS:18:ASP:OD1	41:BS:81:PRO:CG	2.42	0.61
42:BT:28:ARG:CB	42:BT:38:THR:HG21	2.25	0.61
42:BT:55:ARG:HH11	42:BT:55:ARG:HG2	1.64	0.61
44:BV:58:ALA:O	44:BV:62:HIS:HB3	2.00	0.61
47:BY:11:GLU:HG2	47:BY:36:LYS:HZ1	1.64	0.61
47:BY:78:LYS:HE2	47:BY:84:GLU:OE2	2.00	0.61
48:BZ:5:LYS:HG2	48:BZ:6:GLY:N	2.16	0.61
25:BA:1063:G:OP1	34:BL:79:ARG:NH1	2.33	0.61
25:BA:1087:G:N2	25:BA:1103:A:H2'	2.15	0.61
34:BL:101:TRP:HZ3	34:BL:105:LEU:HD11	1.63	0.61
51:B3:14:ILE:HD13	51:B3:15:ILE:N	2.15	0.61
1:AA:1003:G:C2	1:AA:1004:A:O2'	2.48	0.61
25:BA:522:G:H2'	25:BA:523:C:C6	2.34	0.61
1:AA:103:C:O4'	1:AA:151:A:C2	2.54	0.61
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.36	0.61
1:AA:1435:G:C2	1:AA:1436:U:C4	2.89	0.61
1:AA:184:G:O2'	1:AA:185:A:H5'	1.99	0.61
1:AA:828:A:H5'	1:AA:859:A:C2	2.35	0.61
5:AE:73:THR:HG22	5:AE:94:ASN:CA	2.30	0.61
6:AF:83:ARG:HD2	6:AF:87:LEU:HD21	1.82	0.61
7:AG:14:ARG:CD	7:AG:14:ARG:C	2.70	0.61
8:AH:31:LEU:HD21	8:AH:43:LEU:HD11	1.83	0.61
9:AI:14:LEU:CD1	9:AI:19:LEU:N	2.62	0.61
9:AI:47:ARG:HG2	9:AI:57:GLN:CB	2.29	0.61
9:AI:98:LEU:HD13	9:AI:101:ALA:HB1	1.81	0.61
10:AJ:101:LEU:C	10:AJ:101:LEU:HD23	2.21	0.61
11:AK:6:ILE:HG21	11:AK:85:ARG:NH2	2.14	0.61
13:AM:40:LEU:HD12	13:AM:71:LEU:CD2	2.31	0.61
13:AM:75:ILE:HG22	13:AM:76:ASN:N	2.15	0.61
14:AN:58:PRO:HB2	14:AN:93:GLN:HB2	1.82	0.61
15:AO:41:ARG:CB	15:AO:41:ARG:CZ	2.79	0.61
21:AU:29:PHE:CZ	21:AU:39:VAL:HG11	2.35	0.61
24:AX:11:GLY:O	24:AX:15:ARG:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B2:30:ARG:H	50:B2:30:ARG:HD2	1.64	0.61
50:B2:8:LEU:HD12	50:B2:31:LEU:CA	2.31	0.61
51:B3:7:PRO:O	51:B3:8:LYS:HB2	2.00	0.61
54:B6:24:THR:HG23	54:B6:27:GLY:HA3	1.83	0.61
25:BA:1027:A:C2	25:BA:1028:A:N7	2.69	0.61
25:BA:1208:C:N4	25:BA:1209:G:O6	2.34	0.61
25:BA:1327:C:H2'	25:BA:1328:G:C8	2.36	0.61
25:BA:1324:G:N1	25:BA:1328:G:N2	2.49	0.61
25:BA:1372:U:C2'	25:BA:1373:A:H5'	2.30	0.61
25:BA:140:A:H2	25:BA:1595:G:H21	1.47	0.61
25:BA:1443:G:C2'	25:BA:1444:G:O5'	2.48	0.61
25:BA:1594:G:O2'	25:BA:1595:G:H5'	2.01	0.61
25:BA:1790:C:H3'	25:BA:1828:G:H22	1.65	0.61
25:BA:1996:C:H3'	25:BA:1996:C:C6	2.35	0.61
25:BA:528:A:C2	25:BA:2043:C:C4'	2.84	0.61
25:BA:2195:C:C2'	25:BA:2196:C:C5'	2.79	0.61
25:BA:2307:G:C8	25:BA:2308:G:H1'	2.36	0.61
25:BA:2447:G:H1'	25:BA:2501:C:C6	2.35	0.61
25:BA:250:G:C2	25:BA:251:A:C5	2.89	0.61
25:BA:2536:G:O2'	25:BA:2537:U:H5'	2.00	0.61
25:BA:242:G:H2'	25:BA:254:G:O6	2.01	0.61
25:BA:2569:G:N3	25:BA:2570:G:C8	2.69	0.61
25:BA:2596:U:O3'	28:BD:242:ARG:CD	2.49	0.61
25:BA:2688:U:H3'	25:BA:2688:U:O2	2.01	0.61
25:BA:2826:A:N7	25:BA:2827:C:C5	2.69	0.61
25:BA:2880:C:C4'	39:BQ:90:ARG:HG2	2.29	0.61
25:BA:2882:A:C2'	25:BA:2883:A:O5'	2.47	0.61
25:BA:363(C):G:O2'	25:BA:363(D):G:H5'	2.00	0.61
25:BA:467:G:N2	25:BA:468:G:H1'	2.16	0.61
25:BA:569:U:N3	25:BA:570:G:C2	2.69	0.61
25:BA:686:G:C5	54:B6:12:ARG:NH1	2.68	0.61
25:BA:689:A:H5''	25:BA:690:G:OP2	2.00	0.61
28:BD:42:GLY:HA2	28:BD:60:ARG:NH1	2.15	0.61
28:BD:85:ASP:C	28:BD:87:ASN:H	2.03	0.61
29:BE:119:ARG:HH11	29:BE:120:TRP:HB2	1.63	0.61
29:BE:146:THR:CB	29:BE:147:PRO:CD	2.77	0.61
29:BE:26:ILE:CB	29:BE:181:LEU:HD23	2.29	0.61
29:BE:109:LYS:N	29:BE:191:PRO:HD3	2.14	0.61
30:BF:44:ARG:CG	30:BF:45:ARG:H	2.13	0.61
30:BF:51:THR:O	30:BF:52:LYS:CB	2.46	0.61
30:BF:56:GLU:C	30:BF:60:SER:OG	2.39	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:174:GLU:HA	31:BG:179:PRO:HB3	1.81	0.61
32:BH:149:ARG:O	32:BH:162:ILE:HG21	2.00	0.61
32:BH:38:SER:OG	32:BH:39:PRO:HD2	2.01	0.61
32:BH:96:ALA:HB3	32:BH:128:PRO:CB	2.28	0.61
36:BN:106:LEU:O	36:BN:109:LYS:HA	2.00	0.61
36:BN:18:LYS:HZ2	36:BN:44:LYS:NZ	1.98	0.61
38:BP:106:VAL:HG22	38:BP:107:ALA:N	2.16	0.61
38:BP:74:TYR:HD2	38:BP:92:GLY:O	1.84	0.61
38:BP:76:LYS:HD2	38:BP:76:LYS:O	2.00	0.61
39:BQ:107:ASP:OD2	39:BQ:108:GLY:N	2.33	0.61
39:BQ:28:LEU:HD13	39:BQ:28:LEU:C	2.21	0.61
39:BQ:87:TYR:CE1	39:BQ:94:TYR:HB3	2.35	0.61
41:BS:2:ASN:CG	41:BS:3:ARG:NE	2.54	0.61
41:BS:34:VAL:HG23	41:BS:84:GLN:C	2.21	0.61
42:BT:110:VAL:HG12	42:BT:114:LYS:NZ	2.15	0.61
42:BT:25:TRP:O	42:BT:26:GLY:C	2.39	0.61
48:BZ:42:GLY:O	48:BZ:57:PHE:HD2	1.84	0.61
48:BZ:72:ARG:HD2	48:BZ:75:LEU:HD13	1.82	0.61
33:BK:109:ILE:CG1	33:BK:113:ARG:NH2	2.56	0.61
33:BK:93:THR:CG2	33:BK:96:ASP:N	2.62	0.61
47:BY:157:LEU:CD1	47:BY:161:VAL:HG13	2.20	0.61
34:BL:54:PRO:HG3	34:BL:72:PRO:HA	1.82	0.61
34:BL:76:TYR:O	34:BL:80:LYS:CD	2.48	0.61
34:BL:94:GLU:O	34:BL:96:VAL:HG13	2.01	0.61
44:BV:49:LYS:HE2	44:BV:49:LYS:CA	2.31	0.61
1:AA:105:G:C5	1:AA:106:C:N4	2.69	0.61
1:AA:1157:A:N3	1:AA:1157:A:H2'	2.14	0.61
1:AA:10:A:C2'	1:AA:11:G:H5'	2.31	0.61
1:AA:1055:A:N6	1:AA:1206:G:C8	2.68	0.61
1:AA:1451:A:H5''	1:AA:1452:C:C5	2.36	0.61
1:AA:1475:G:N2	1:AA:1476:G:C4	2.69	0.61
1:AA:186(B):C:O2'	1:AA:186(C):G:H5'	2.00	0.61
1:AA:259:G:H2'	1:AA:260:G:C8	2.35	0.61
1:AA:268:C:O2'	1:AA:269:C:H5'	2.01	0.61
1:AA:454:C:H5''	1:AA:455:C:OP2	2.01	0.61
1:AA:795:C:H4'	1:AA:1506:U:O2	2.00	0.61
1:AA:19:C:O4'	1:AA:864:A:H1'	2.00	0.61
1:AA:960:U:H2'	1:AA:960:U:O2	2.00	0.61
1:AA:961:U:C2'	1:AA:962:C:C5'	2.79	0.61
5:AE:234:PRO:O	5:AE:238:LEU:HD22	2.00	0.61
6:AF:23:TYR:CD2	6:AF:24:ALA:N	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:737:A:C3'	9:AI:92:LYS:HZ2	2.14	0.61
11:AK:118:VAL:O	11:AK:119:LEU:HD22	2.01	0.61
11:AK:85:ARG:HA	11:AK:135:CYS:HB2	1.83	0.61
11:AK:88:LYS:HZ3	11:AK:88:LYS:N	1.95	0.61
11:AK:97:VAL:HG13	11:AK:98:LYS:HZ2	1.65	0.61
12:AL:25:LYS:N	12:AL:25:LYS:HD2	2.15	0.61
12:AL:16:ARG:HD3	12:AL:64:THR:OG1	2.00	0.61
13:AM:76:ASN:N	13:AM:76:ASN:HD22	1.99	0.61
14:AN:28:THR:CG2	14:AN:29:ILE:N	2.64	0.61
14:AN:42:TRP:HE3	14:AN:43:SER:CA	2.14	0.61
15:AO:70:ILE:HG23	15:AO:100:ILE:HG13	1.82	0.61
17:AQ:12:ARG:C	17:AQ:14:PRO:N	2.52	0.61
19:AS:1:MET:HB3	19:AS:3:LYS:NZ	2.15	0.61
21:AU:50:ILE:CD1	21:AU:70:ILE:HG21	2.29	0.61
23:AW:30:LYS:HD3	23:AW:34:LYS:HD2	1.83	0.61
23:AW:57:ARG:NH2	23:AW:100:ILE:HD12	2.15	0.61
53:B5:11:LEU:HD22	55:B7:35:GLN:NE2	2.16	0.61
53:B5:14:THR:HB	53:B5:51:GLU:HA	1.83	0.61
25:BA:1129:A:C2'	25:BA:1130:U:OP2	2.48	0.61
25:BA:1151:G:H2'	25:BA:1152:C:C6	2.36	0.61
25:BA:1188:U:H2'	25:BA:1189:A:C5'	2.30	0.61
25:BA:1241:A:N7	25:BA:1243:G:O6	2.34	0.61
25:BA:1287:A:H3'	25:BA:1288:U:C6	2.36	0.61
25:BA:1389:G:H2'	25:BA:1390:U:H6	1.65	0.61
25:BA:1554:A:O2'	25:BA:1555:G:OP1	2.18	0.61
25:BA:1568:G:O2'	25:BA:1569:A:OP2	2.19	0.61
25:BA:1579:A:N7	25:BA:1580:A:N3	2.49	0.61
25:BA:1782:C:OP1	25:BA:1783:A:OP2	2.18	0.61
25:BA:1827:C:H2'	25:BA:1828:G:O4'	2.00	0.61
25:BA:1837:C:C4	25:BA:1899:G:O6	2.54	0.61
25:BA:2147:G:N2	25:BA:2148:G:H4'	2.16	0.61
25:BA:2171:A:O2'	25:BA:2172:U:O5'	2.17	0.61
25:BA:2230:G:N2	25:BA:2231:C:C2	2.69	0.61
25:BA:2426:A:H3'	25:BA:2427:C:H5''	1.83	0.61
25:BA:2525:G:N3	25:BA:2525:G:H2'	2.15	0.61
25:BA:2548:G:C8	25:BA:2548:G:H5'	2.24	0.61
25:BA:2566:A:O2'	25:BA:2567:G:OP2	2.11	0.61
25:BA:2570:G:H3'	25:BA:2571:C:C6	2.36	0.61
25:BA:2579:C:O3'	29:BE:132:HIS:NE2	2.34	0.61
25:BA:270(N):G:C5'	25:BA:270(O):U:H5	2.12	0.61
25:BA:270(V):G:H2'	25:BA:270(W):G:C8	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2715:C:H2'	25:BA:2716:U:H6	1.65	0.61
25:BA:271(C):U:O2'	25:BA:271:G:C4'	2.49	0.61
25:BA:2756:U:O2'	25:BA:2757:A:OP2	2.15	0.61
25:BA:2784:C:O2'	25:BA:2785:C:H5'	2.01	0.61
25:BA:396:G:OP1	51:B3:10:VAL:HG22	2.00	0.61
25:BA:625:G:H2'	25:BA:625:G:N3	2.15	0.61
25:BA:676:A:C2'	25:BA:677:A:H5'	2.31	0.61
25:BA:760:G:H2'	25:BA:761:A:C8	2.36	0.61
25:BA:848:G:H21	25:BA:933:A:C1'	2.12	0.61
25:BA:909:A:C2	25:BA:912:C:H1'	2.36	0.61
25:BA:918:A:C8	26:BB:80:U:O2'	2.42	0.61
25:BA:974:G:O4'	25:BA:1187:G:H1'	2.01	0.61
26:BB:99:A:H2'	26:BB:100:G:O4'	2.01	0.61
27:BC:161:ILE:HG22	27:BC:174:PRO:HG2	1.83	0.61
28:BD:132:PRO:HB3	28:BD:190:TYR:CE1	2.36	0.61
28:BD:133:LEU:O	28:BD:135:PHE:N	2.34	0.61
28:BD:151:LYS:HB2	28:BD:154:LYS:HE2	1.83	0.61
28:BD:161:THR:CG2	28:BD:196:VAL:HG23	2.28	0.61
28:BD:246:PRO:HD2	28:BD:250:TRP:CB	2.29	0.61
28:BD:8:PRO:HG2	28:BD:26:LYS:N	2.15	0.61
25:BA:1657:C:P	29:BE:136:ARG:CD	2.89	0.61
29:BE:165:VAL:HG13	29:BE:166:THR:H	1.62	0.61
29:BE:50:GLY:H	29:BE:76:ARG:CG	2.14	0.61
30:BF:6:VAL:HA	30:BF:20:LEU:CG	2.28	0.61
30:BF:39:TRP:HE3	30:BF:99:TYR:HB3	1.66	0.61
31:BG:78:SER:C	31:BG:82:LEU:HG	2.21	0.61
32:BH:107:VAL:CG1	32:BH:152:ARG:HG2	2.30	0.61
32:BH:163:TYR:O	32:BH:164:TYR:O	2.19	0.61
33:BK:4:ILE:CA	33:BK:18:VAL:HG22	2.15	0.61
33:BK:48:GLU:O	33:BK:52:ARG:HG3	2.01	0.61
35:BM:103:VAL:CG2	35:BM:117:PHE:CZ	2.83	0.61
37:BO:15:ARG:C	37:BO:17:LYS:HZ1	2.03	0.61
38:BP:83:MET:N	38:BP:83:MET:HE3	2.16	0.61
39:BQ:17:ARG:CZ	39:BQ:17:ARG:HB3	2.30	0.61
40:BR:38:GLN:HE22	40:BR:47:THR:CG2	2.14	0.61
40:BR:54:LEU:O	40:BR:56:LEU:HD22	2.01	0.61
40:BR:57:LYS:HZ2	40:BR:65:VAL:N	1.99	0.61
25:BA:2876:G:C5'	41:BS:1:MET:N	2.57	0.61
41:BS:3:ARG:O	41:BS:4:GLY:C	2.40	0.61
41:BS:97:ALA:O	41:BS:99:LEU:N	2.25	0.61
25:BA:1154:G:H5''	42:BT:58:ARG:HH21	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:69:CYS:HB3	42:BT:79:PHE:HD2	1.65	0.61
46:BX:47:LYS:HD3	46:BX:49:VAL:CG2	2.31	0.61
47:BY:44:PHE:HB3	47:BY:48:PHE:HE1	1.66	0.61
34:BL:35:MET:C	34:BL:38:VAL:HB	2.22	0.61
26:BB:88:C:H3'	26:BB:89:G:C5'	2.30	0.61
1:AA:103:C:O2	1:AA:172:A:H2	1.84	0.60
1:AA:1226:C:C5	16:AP:104:ARG:HA	2.35	0.60
1:AA:1233:G:O2'	1:AA:1365:G:OP1	2.18	0.60
1:AA:1256:A:O3'	1:AA:1257:U:C4'	2.49	0.60
1:AA:1261:A:C2	1:AA:1262:C:N3	2.69	0.60
1:AA:1316:G:H5''	17:AQ:17:LYS:HD2	1.83	0.60
1:AA:278:G:H21	1:AA:279:A:H62	1.48	0.60
1:AA:279:A:H1'	1:AA:281:G:C4	2.35	0.60
1:AA:304:U:C2	1:AA:305:G:N7	2.69	0.60
1:AA:40:C:H2'	1:AA:41:G:H8	1.66	0.60
1:AA:423:G:H2'	1:AA:424:G:O4'	2.01	0.60
1:AA:52:G:H2'	1:AA:53:A:C5'	2.31	0.60
1:AA:652:U:H2'	1:AA:752:G:H22	1.64	0.60
1:AA:790:A:C2'	1:AA:791:G:O5'	2.49	0.60
1:AA:812:C:O2'	1:AA:813:U:OP2	2.17	0.60
1:AA:872:A:C5	1:AA:874:G:N7	2.68	0.60
5:AE:205:ASP:O	5:AE:211:ILE:HD11	2.01	0.60
5:AE:28:PHE:CE1	5:AE:31:TYR:HB2	2.35	0.60
7:AG:205:GLU:O	7:AG:206:PHE:C	2.40	0.60
7:AG:20:TYR:C	7:AG:26:CYS:SG	2.80	0.60
7:AG:62:GLN:HA	7:AG:62:GLN:NE2	2.15	0.60
9:AI:77:ARG:HA	9:AI:80:ARG:CD	2.10	0.60
11:AK:20:TYR:HE2	11:AK:75:ARG:HD2	1.66	0.60
12:AL:122:ALA:O	12:AL:123:PRO:C	2.38	0.60
1:AA:1254:C:OP1	13:AM:45:ARG:HD2	2.00	0.60
1:AA:362:G:H4'	15:AO:28:LYS:HZ3	1.66	0.60
15:AO:6:THR:OG1	15:AO:9:GLN:CG	2.49	0.60
1:AA:237:C:H5''	20:AT:25:ARG:NH1	2.15	0.60
21:AU:53:ARG:HD3	21:AU:58:LEU:O	2.01	0.60
23:AW:37:SER:O	23:AW:41:ILE:HG13	2.01	0.60
50:B2:10:LYS:HE2	50:B2:31:LEU:HG	1.83	0.60
54:B6:20:ALA:N	54:B6:23:ARG:HH21	1.99	0.60
25:BA:1005:C:H6	25:BA:1142(A):A:O2'	1.83	0.60
25:BA:1179:C:C2'	25:BA:1180:C:H6	2.14	0.60
25:BA:1252:G:N7	25:BA:1253:A:N3	2.48	0.60
25:BA:1353:A:N6	25:BA:1378:A:C5	2.69	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1364:G:OP1	51:B3:2:LYS:CB	2.48	0.60
25:BA:137(A):G:N2	25:BA:142:G:C2	2.69	0.60
25:BA:150:C:O2	25:BA:150:C:C2'	2.48	0.60
25:BA:1776:G:C2'	25:BA:1777:U:C5'	2.75	0.60
25:BA:1808:U:C2'	25:BA:1808:U:O2	2.48	0.60
25:BA:1803:A:H61	25:BA:1814:G:C2'	2.13	0.60
25:BA:1819:A:OP2	28:BD:157:ARG:CZ	2.48	0.60
25:BA:195:A:N6	25:BA:198:C:OP2	2.34	0.60
25:BA:2027:G:C2	25:BA:2028:U:H1'	2.36	0.60
25:BA:2030:A:H4'	25:BA:2031:A:C8	2.36	0.60
25:BA:2167:U:N3	25:BA:2168:G:N7	2.48	0.60
25:BA:2282:G:H22	25:BA:2427:C:N4	1.99	0.60
25:BA:259:G:O2'	25:BA:260:G:H5'	2.01	0.60
25:BA:2619:C:O2'	25:BA:2620:C:H5'	2.01	0.60
25:BA:2630:G:H3'	25:BA:2631:G:H8	1.66	0.60
25:BA:263:C:C2'	25:BA:263:C:O2	2.47	0.60
25:BA:270(T):G:H2'	25:BA:270(T):G:N3	2.15	0.60
25:BA:27:G:N1	25:BA:512:G:C2'	2.59	0.60
25:BA:2808:U:HO2'	25:BA:2810:A:P	2.21	0.60
25:BA:2820:A:H62	29:BE:191:PRO:HB3	1.66	0.60
25:BA:396:G:H2'	25:BA:397:G:H8	1.66	0.60
25:BA:451:C:C5	25:BA:453:C:H5'	2.35	0.60
25:BA:50:U:H3'	25:BA:50:U:H6	1.65	0.60
25:BA:532:A:OP2	25:BA:2021:C:C4	2.54	0.60
25:BA:585:G:H2'	25:BA:1251:C:H42	1.63	0.60
25:BA:625:G:C6	37:BO:100:LEU:HB3	2.36	0.60
25:BA:628:G:O5'	25:BA:628:G:C8	2.53	0.60
25:BA:970:C:C2	25:BA:971:C:C5	2.89	0.60
25:BA:987:G:OP2	50:B2:13:ILE:CD1	2.48	0.60
26:BB:78:A:C2'	26:BB:79:C:H5'	2.30	0.60
27:BC:117:PRO:HD2	27:BC:147:PHE:CG	2.36	0.60
28:BD:175:LEU:HD13	28:BD:176:ARG:N	2.16	0.60
29:BE:77:ILE:HG12	29:BE:78:LEU:N	2.16	0.60
30:BF:78:ILE:CD1	30:BF:79:GLY:N	2.56	0.60
31:BG:9:ARG:HH11	31:BG:9:ARG:CG	2.14	0.60
33:BK:38:LEU:HD13	33:BK:39:ALA:CB	2.31	0.60
35:BM:123:TYR:OH	35:BM:133:GLN:NE2	2.32	0.60
30:BF:30:PRO:HB2	37:BO:8:PRO:HB3	1.82	0.60
38:BP:34:LEU:HB2	38:BP:67:ARG:NH2	2.16	0.60
38:BP:8:LYS:NZ	38:BP:71:ASP:O	2.33	0.60
38:BP:6:ARG:HG2	38:BP:7:MET:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:113:LEU:HD13	39:BQ:113:LEU:C	2.22	0.60
40:BR:57:LYS:HZ1	40:BR:62:LYS:HG3	1.66	0.60
43:BU:12:TYR:CZ	43:BU:14:VAL:N	2.69	0.60
43:BU:21:ARG:HG2	43:BU:21:ARG:HH11	1.66	0.60
47:BY:95:PRO:CD	47:BY:130:PRO:HA	2.29	0.60
47:BY:127:LYS:CD	47:BY:163:LEU:HA	2.29	0.60
47:BY:24:LEU:O	47:BY:39:VAL:CB	2.35	0.60
47:BY:48:PHE:HB3	47:BY:54:HIS:HE1	1.64	0.60
47:BY:57:ILE:CG2	47:BY:58:VAL:H	2.13	0.60
25:BA:1072:C:H42	25:BA:1100:C:H42	1.49	0.60
34:BL:37:PHE:CG	34:BL:57:ILE:HD12	2.35	0.60
1:AA:748:C:H6	1:AA:748:C:H3'	1.66	0.60
25:BA:1607:C:O2	25:BA:1607:C:H2'	2.00	0.60
1:AA:1048:G:O4'	1:AA:1215:G:H4'	2.01	0.60
1:AA:1075:C:O2	1:AA:1075:C:C2'	2.48	0.60
1:AA:1190:G:H5''	6:AF:176:HIS:NE2	2.16	0.60
1:AA:1231:G:H2'	1:AA:1232:U:H6	1.67	0.60
1:AA:1386:G:O2'	1:AA:1387:G:O5'	2.18	0.60
1:AA:184:G:C4'	1:AA:224:C:H4'	2.31	0.60
1:AA:22:G:H2'	1:AA:23:C:C1'	2.31	0.60
1:AA:246:A:O4'	1:AA:282:A:N6	2.34	0.60
1:AA:301:G:C2	1:AA:302:G:C4	2.89	0.60
1:AA:366:C:O2'	1:AA:367:U:O5'	2.18	0.60
1:AA:303:A:O2'	1:AA:555:C:O2'	2.16	0.60
1:AA:945:G:C6	1:AA:1337:G:C5	2.89	0.60
1:AA:981:U:H2'	1:AA:982:U:H5	1.65	0.60
2:AC:19:G:C3'	2:AC:20:U:C5	2.83	0.60
5:AE:15:VAL:HG21	5:AE:210:SER:N	2.15	0.60
5:AE:160:ASP:HB3	5:AE:182:ILE:HG21	1.82	0.60
5:AE:162:ILE:O	5:AE:185:ILE:CG1	2.49	0.60
5:AE:27:LYS:CB	5:AE:194:PRO:HD2	2.31	0.60
6:AF:83:ARG:C	6:AF:85:ARG:H	2.03	0.60
7:AG:8:VAL:CG2	7:AG:115:ARG:HH22	2.08	0.60
1:AA:404:U:C5'	7:AG:122:ARG:HH11	2.10	0.60
7:AG:165:MET:SD	7:AG:165:MET:C	2.80	0.60
9:AI:7:ASN:ND2	9:AI:62:TRP:CD1	2.66	0.60
9:AI:78:GLU:O	9:AI:81:ILE:CG1	2.49	0.60
9:AI:53:ALA:CB	9:AI:86:ARG:HH11	2.11	0.60
10:AJ:110:GLN:O	10:AJ:111:ARG:O	2.19	0.60
11:AK:10:LEU:HB3	11:AK:83:ILE:HD11	1.83	0.60
11:AK:40:ALA:O	11:AK:43:GLY:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:93:ARG:C	12:AL:95:LYS:H	2.01	0.60
15:AO:113:ARG:C	15:AO:114:LYS:HG3	2.21	0.60
17:AQ:9:LYS:NZ	17:AQ:12:ARG:NH2	2.49	0.60
18:AR:44:LYS:H	18:AR:44:LYS:HE3	1.64	0.60
1:AA:136:C:O4'	19:AS:1:MET:SD	2.59	0.60
20:AT:98:LEU:CD1	20:AT:102:GLY:O	2.49	0.60
49:B1:37:GLY:O	49:B1:39:LEU:HG	2.01	0.60
51:B3:53:GLU:HG2	51:B3:54:GLY:N	2.14	0.60
51:B3:57:GLU:O	51:B3:61:ARG:CB	2.47	0.60
53:B5:30:THR:HB	53:B5:31:PRO:HD2	1.82	0.60
25:BA:2361:A:OP2	55:B7:28:GLY:HA2	2.01	0.60
25:BA:2477:C:H41	56:B8:10:ILE:HG21	1.65	0.60
25:BA:1124:C:H6	25:BA:1124:C:O5'	1.83	0.60
25:BA:115:C:O2'	25:BA:116:C:H5'	2.01	0.60
25:BA:1187:G:C5'	43:BU:83:ARG:HH12	2.12	0.60
25:BA:1188:U:O2	25:BA:1189:A:O4'	2.19	0.60
25:BA:565:C:O3'	25:BA:1253:A:C2	2.55	0.60
25:BA:1313:U:H5	25:BA:1313:U:OP2	1.84	0.60
25:BA:1361:G:N2	25:BA:1362:C:C2	2.69	0.60
25:BA:1364:G:OP1	51:B3:2:LYS:HB2	2.01	0.60
25:BA:147:U:C4	25:BA:148:C:N4	2.69	0.60
25:BA:1504:C:H6	25:BA:1504:C:O5'	1.84	0.60
25:BA:1641:A:H5'	25:BA:1642:G:OP2	2.00	0.60
25:BA:1941:C:C6	25:BA:1965:C:C4	2.89	0.60
25:BA:1980:G:C4	25:BA:1982:C:C5	2.89	0.60
25:BA:1996:C:C2	25:BA:1997:G:H4'	2.36	0.60
25:BA:2082:A:C2	25:BA:2083:G:C4	2.89	0.60
25:BA:2148:G:C4	25:BA:2149:G:N7	2.69	0.60
25:BA:2250:G:C2'	25:BA:2496:C:H5'	2.31	0.60
25:BA:2389:G:H4'	25:BA:2390:U:OP2	2.01	0.60
25:BA:2393:A:H2'	25:BA:2394:C:O4'	2.01	0.60
25:BA:2422:A:C2	25:BA:2424:C:N4	2.69	0.60
25:BA:281:G:H3'	25:BA:281:G:P	2.41	0.60
25:BA:301:G:C6	25:BA:317:G:C6	2.89	0.60
25:BA:322:A:C5'	25:BA:341:G:H5'	2.30	0.60
25:BA:388:G:O5'	51:B3:23:GLU:HB3	2.00	0.60
25:BA:447:A:N6	25:BA:473:G:H1'	2.16	0.60
25:BA:557:U:H2'	25:BA:558:G:O4'	2.00	0.60
25:BA:572:A:N7	25:BA:573:G:C4	2.69	0.60
25:BA:691:C:H1'	28:BD:45:ASN:HD22	1.66	0.60
25:BA:784:A:O2'	25:BA:785:G:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:900:A:H2'	25:BA:901:A:O4'	2.01	0.60
27:BC:32:LEU:CD2	27:BC:220:PRO:HG2	2.30	0.60
27:BC:59:ARG:NH1	27:BC:164:ARG:HG2	2.15	0.60
28:BD:132:PRO:HA	28:BD:189:CYS:O	2.01	0.60
28:BD:133:LEU:O	28:BD:136:ILE:N	2.32	0.60
28:BD:164:GLN:HB3	28:BD:176:ARG:HB3	1.82	0.60
28:BD:219:PRO:O	28:BD:220:HIS:ND1	2.34	0.60
28:BD:51:VAL:CG1	28:BD:52:ARG:HD2	2.30	0.60
28:BD:61:LEU:HD12	28:BD:86:PRO:HD3	1.81	0.60
25:BA:2051:A:H4'	29:BE:141:ILE:HG12	1.83	0.60
29:BE:195:LEU:O	29:BE:196:VAL:HG23	2.00	0.60
29:BE:198:VAL:C	29:BE:199:ARG:HD2	2.20	0.60
29:BE:5:LEU:HD22	29:BE:5:LEU:O	2.01	0.60
29:BE:60:ASN:HA	29:BE:63:LEU:HG	1.82	0.60
30:BF:56:GLU:O	30:BF:58:ALA:N	2.34	0.60
32:BH:84:SER:CB	32:BH:134:SER:HA	2.32	0.60
35:BM:22:THR:HB	35:BM:61:ARG:NH1	2.15	0.60
37:BO:115:LEU:O	37:BO:116:GLY:C	2.40	0.60
38:BP:124:LYS:HE2	38:BP:125:LEU:N	2.16	0.60
38:BP:6:ARG:HH21	38:BP:8:LYS:C	2.04	0.60
39:BQ:77:ARG:HH11	39:BQ:77:ARG:HG3	1.65	0.60
42:BT:17:ILE:HA	42:BT:20:LEU:HD12	1.81	0.60
42:BT:76:TYR:HD1	42:BT:76:TYR:N	1.98	0.60
46:BX:14:LEU:HD22	46:BX:20:TYR:N	2.15	0.60
46:BX:1:MET:HA	46:BX:33:LYS:HE3	1.81	0.60
46:BX:2:ARG:NE	46:BX:3:VAL:H	1.97	0.60
48:BZ:68:GLU:HG2	48:BZ:80:HIS:HB2	1.83	0.60
25:BA:1056:G:N2	25:BA:1102:C:OP2	2.27	0.60
34:BL:12:LEU:HD22	34:BL:19:PRO:CG	2.30	0.60
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.35	0.60
26:BB:117:G:H2'	26:BB:117:G:N3	2.14	0.60
1:AA:748:C:O2'	1:AA:749:C:H5'	2.01	0.60
34:BL:47:ASN:OD1	34:BL:47:ASN:O	2.19	0.60
1:AA:1055:A:H2'	1:AA:1055:A:N3	2.15	0.60
1:AA:1173:G:H2'	1:AA:1174:G:H5''	1.80	0.60
1:AA:1216:G:C4	1:AA:1217:C:C5	2.89	0.60
1:AA:122:G:N2	1:AA:123:C:H1'	2.17	0.60
1:AA:1400:C:OP1	1:AA:1400:C:C6	2.53	0.60
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.36	0.60
1:AA:1465:C:C4	1:AA:1466:C:C5	2.88	0.60
1:AA:356:A:H1'	1:AA:368:U:O2'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:517:G:H5''	1:AA:518:C:OP1	2.01	0.60
1:AA:609:A:N3	1:AA:610:G:C1'	2.64	0.60
1:AA:687:A:O2'	1:AA:688:G:P	2.59	0.60
1:AA:738:C:N3	1:AA:739:C:C5	2.69	0.60
2:AC:35:A:H5'	2:AC:35:A:C8	2.36	0.60
3:AD:50:G:H2'	3:AD:51:C:H6	1.65	0.60
5:AE:97:TRP:CZ2	5:AE:102:LEU:HD13	2.36	0.60
5:AE:97:TRP:HH2	5:AE:176:GLU:HG3	1.66	0.60
8:AH:121:LYS:HZ2	8:AH:121:LYS:CB	2.14	0.60
9:AI:41:GLU:O	9:AI:42:GLU:CB	2.42	0.60
9:AI:6:VAL:CG1	9:AI:8:ILE:HD11	2.32	0.60
10:AJ:155:ARG:O	10:AJ:156:TRP:HE3	1.83	0.60
11:AK:92:ARG:HB3	11:AK:94:TYR:CE1	2.36	0.60
12:AL:117:HIS:HD2	12:AL:121:ARG:CG	2.09	0.60
13:AM:8:LEU:HD13	13:AM:94:VAL:CB	2.30	0.60
14:AN:44:SER:H	14:AN:47:VAL:CB	2.14	0.60
15:AO:33:ARG:HE	15:AO:33:ARG:HA	1.66	0.60
18:AR:66:LEU:O	18:AR:69:TYR:HB3	2.00	0.60
18:AR:15:PHE:CE2	18:AR:84:LYS:HD3	2.35	0.60
20:AT:43:LEU:CD1	20:AT:69:LYS:HG3	2.30	0.60
24:AX:21:TYR:O	24:AX:22:ARG:HB2	2.01	0.60
52:B4:13:LYS:HB3	52:B4:16:ARG:NH1	2.16	0.60
25:BA:2347:C:H4'	53:B5:39:TYR:HE1	1.66	0.60
54:B6:8:ASN:ND2	54:B6:10:ARG:HB2	2.16	0.60
54:B6:3:ARG:O	54:B6:5:TRP:N	2.34	0.60
25:BA:1612:C:H1'	54:B6:6:GLN:HE22	1.65	0.60
25:BA:1612:C:H5'	54:B6:7:PRO:HD3	1.82	0.60
55:B7:17:THR:C	55:B7:19:SER:H	2.04	0.60
55:B7:24:ALA:O	55:B7:47:LYS:HG3	2.00	0.60
25:BA:1142:U:H3'	25:BA:1142(A):A:C8	2.35	0.60
25:BA:1204:A:C2	30:BF:188:ARG:N	2.66	0.60
25:BA:1239:G:C2'	25:BA:1240:U:H5'	2.30	0.60
25:BA:812:C:H1'	25:BA:1250:G:N1	2.16	0.60
25:BA:1332:G:C4	25:BA:1609:A:N1	2.68	0.60
25:BA:138:G:N3	25:BA:139:G:C8	2.70	0.60
25:BA:1397:U:H2'	25:BA:1397:U:O2	2.00	0.60
25:BA:1455:G:OP2	25:BA:1456:G:OP2	2.18	0.60
25:BA:1447:G:H21	25:BA:1528:A:N6	1.97	0.60
25:BA:1534:G:H21	25:BA:1537:C:H41	1.49	0.60
25:BA:1616:A:C5'	25:BA:1617:C:OP1	2.49	0.60
25:BA:579:G:C5'	25:BA:2018:G:H5''	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2020:A:N1	25:BA:2035:G:N7	2.48	0.60
25:BA:2114:A:O5'	25:BA:2114:A:H8	1.84	0.60
25:BA:2130:U:H5''	25:BA:2131:G:OP2	2.01	0.60
25:BA:2236:C:H5''	25:BA:2236:C:C6	2.36	0.60
25:BA:2519:U:C2	25:BA:2542:A:C2	2.90	0.60
25:BA:1672:C:C2	25:BA:2582:G:O4'	2.54	0.60
25:BA:10:G:N3	25:BA:2629:A:C2	2.69	0.60
25:BA:2660:A:H2'	25:BA:2661:G:O4'	2.01	0.60
25:BA:270(L):U:H2'	25:BA:270(L):U:O2	2.01	0.60
25:BA:2893:G:H4'	25:BA:2894:G:O4'	2.01	0.60
25:BA:514:A:H1'	25:BA:581:C:O2'	2.00	0.60
25:BA:749:C:C5'	25:BA:1271:G:H1'	2.30	0.60
25:BA:744:G:N1	25:BA:754:C:C4	2.70	0.60
25:BA:787:U:C5	25:BA:791:C:C2	2.89	0.60
25:BA:914:C:H5	25:BA:915:C:C5	2.20	0.60
25:BA:919:G:C5	25:BA:920:G:N7	2.70	0.60
26:BB:35:U:H2'	26:BB:36:C:C6	2.36	0.60
26:BB:52:A:C2	26:BB:53:A:C1'	2.84	0.60
26:BB:7:G:OP1	40:BR:29:PHE:CZ	2.54	0.60
27:BC:49:ILE:O	27:BC:50:ASP:HB2	2.00	0.60
28:BD:147:LEU:O	28:BD:154:LYS:HE3	2.02	0.60
28:BD:141:VAL:HA	28:BD:163:ALA:O	2.01	0.60
28:BD:129:ASN:O	28:BD:193:VAL:HB	2.02	0.60
28:BD:84:TYR:HD1	28:BD:91:ARG:CD	2.01	0.60
28:BD:63:ARG:NH1	28:BD:85:ASP:HB2	2.06	0.60
29:BE:131:ALA:CB	29:BE:134:ILE:HG13	2.28	0.60
29:BE:176:ILE:HD12	29:BE:179:GLU:O	2.01	0.60
29:BE:5:LEU:HD21	29:BE:196:VAL:CB	2.30	0.60
25:BA:601:C:C4'	30:BF:104:LYS:HZ1	2.13	0.60
30:BF:140:LEU:CD2	30:BF:143:ALA:HB3	2.24	0.60
32:BH:38:SER:HB3	32:BH:41:MET:SD	2.41	0.60
33:BK:16:GLY:O	33:BK:17:GLN:HG3	2.00	0.60
29:BE:149:ARG:NH2	35:BM:78:TYR:HE2	1.98	0.60
37:BO:129:ALA:C	37:BO:130:PHE:HD2	2.05	0.60
38:BP:127:ILE:HD13	38:BP:129:THR:HG23	1.82	0.60
38:BP:134:ARG:NE	38:BP:137:TYR:H	1.98	0.60
39:BQ:20:LEU:HD12	39:BQ:21:TYR:HD2	1.67	0.60
39:BQ:77:ARG:HH11	39:BQ:77:ARG:CG	2.13	0.60
40:BR:106:ARG:NH2	40:BR:110:LEU:HD22	2.17	0.60
41:BS:34:VAL:HG21	41:BS:84:GLN:HG2	1.81	0.60
36:BN:77:ILE:HG21	41:BS:65:LYS:HE2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:24:TYR:H	42:BT:24:TYR:HD1	1.47	0.60
42:BT:76:TYR:HB3	42:BT:80:ILE:HD12	1.81	0.60
42:BT:89:GLU:HG2	43:BU:52:VAL:CG2	2.13	0.60
42:BT:94:ASN:HA	42:BT:97:ASP:OD1	2.00	0.60
44:BV:40:ASN:O	44:BV:41:LYS:CG	2.48	0.60
44:BV:58:ALA:CB	44:BV:69:LEU:HD21	2.31	0.60
45:BW:73:ARG:HH12	45:BW:74:PRO:C	2.04	0.60
46:BX:22:GLY:CA	46:BX:73:ARG:HH12	2.15	0.60
47:BY:104:PHE:HB2	47:BY:139:VAL:O	2.01	0.60
34:BL:78:ILE:HG21	34:BL:131:ALA:HA	1.84	0.60
32:BH:25:LYS:NZ	32:BH:27:LYS:NZ	2.48	0.60
1:AA:1004:A:H2'	1:AA:1036:G:C6	2.36	0.60
11:AK:80:ILE:N	11:AK:80:ILE:HD12	2.12	0.60
1:AA:841:U:O2	1:AA:841:U:H2'	2.02	0.60
1:AA:841:U:OP2	1:AA:842:C:N4	2.34	0.60
4:A1:15:A:C3'	4:A1:15:A:C8	2.84	0.60
1:AA:1063:C:C4	1:AA:1064:G:N7	2.69	0.60
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.02	0.60
1:AA:1134:G:C6	1:AA:1135:U:H1'	2.37	0.60
1:AA:1174:G:H8	1:AA:1174:G:H5'	1.67	0.60
1:AA:1209:C:H2'	1:AA:1210:C:H5'	1.83	0.60
1:AA:1239:A:N6	1:AA:1299:A:H61	1.99	0.60
1:AA:1266:G:H8	1:AA:1268:A:OP2	1.84	0.60
1:AA:1347:G:H8	12:AL:107:ARG:CD	2.15	0.60
1:AA:922:G:N3	1:AA:1398:A:C2	2.70	0.60
1:AA:781:A:H5''	1:AA:1523:G:O4'	2.00	0.60
1:AA:426:G:C5'	7:AG:45:GLN:NE2	2.63	0.60
1:AA:50:A:H61	1:AA:361:G:H5'	1.66	0.60
1:AA:563:A:C2	1:AA:567:G:C5	2.90	0.60
1:AA:593:G:H2'	1:AA:594:G:H5'	1.83	0.60
1:AA:628:G:H2'	1:AA:629:G:O4'	2.01	0.60
1:AA:729:A:N1	1:AA:730:G:N3	2.48	0.60
1:AA:729:A:C2	1:AA:730:G:C1'	2.84	0.60
1:AA:736:C:OP1	21:AU:72:ARG:NH2	2.35	0.60
1:AA:778:G:C2'	1:AA:779:C:H6	2.14	0.60
7:AG:191:ARG:NH2	7:AG:194:LEU:C	2.55	0.60
9:AI:30:LEU:HB3	9:AI:35:ALA:CB	2.31	0.60
10:AJ:15:ASP:OD2	10:AJ:16:LEU:N	2.34	0.60
10:AJ:27:ILE:HG12	10:AJ:43:PHE:CG	2.36	0.60
10:AJ:89:MET:O	10:AJ:90:GLU:O	2.18	0.60
13:AM:65:LEU:HD13	17:AQ:36:PHE:CZ	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:58:PRO:HB2	14:AN:93:GLN:CB	2.31	0.60
16:AP:80:ARG:HH12	16:AP:81:LEU:HB3	1.67	0.60
17:AQ:45:ARG:CG	17:AQ:45:ARG:HH11	2.15	0.60
1:AA:392:G:H5'	19:AS:12:LYS:HE2	1.83	0.60
19:AS:22:THR:HG22	19:AS:32:TYR:HB2	1.83	0.60
20:AT:7:THR:HG1	20:AT:57:VAL:C	2.04	0.60
51:B3:58:ARG:O	51:B3:62:ARG:HG3	2.01	0.60
37:BO:45:LEU:HD22	55:B7:59:LYS:HG2	1.83	0.60
55:B7:5:LYS:C	55:B7:7:HIS:N	2.54	0.60
25:BA:1026:U:H2'	25:BA:1027:A:C5'	2.30	0.60
25:BA:1134:G:H5'	25:BA:1135:C:OP2	2.01	0.60
25:BA:1212:G:C8	25:BA:1212:G:H3'	2.36	0.60
25:BA:1222:C:C4	25:BA:1223:C:H5	2.19	0.60
25:BA:1351:C:H2'	25:BA:1352:U:C6	2.36	0.60
25:BA:1380:G:H2'	25:BA:1381:G:H5'	1.83	0.60
25:BA:141:A:N1	25:BA:141(A):C:O4'	2.34	0.60
25:BA:1419:A:H3'	25:BA:1420:U:N1	2.16	0.60
25:BA:1532:C:N4	25:BA:1540:G:N1	2.50	0.60
25:BA:1569:A:H2'	25:BA:1570:A:C8	2.36	0.60
25:BA:141:A:N1	25:BA:1597:A:H5'	2.16	0.60
25:BA:1664:A:C8	25:BA:1664:A:P	2.94	0.60
25:BA:1695:G:N2	25:BA:1696:G:N9	2.49	0.60
25:BA:1751:C:O4'	25:BA:2860:A:C2	2.54	0.60
25:BA:1826:G:O2'	25:BA:1827:C:H5'	2.01	0.60
25:BA:1838:C:H2'	25:BA:1838:C:O2	2.01	0.60
25:BA:1858:G:O6	25:BA:1883:G:C6	2.54	0.60
25:BA:2014:A:O2'	25:BA:2015:A:N3	2.32	0.60
25:BA:2043:C:C4	25:BA:2777:G:C2	2.89	0.60
25:BA:2114:A:N6	25:BA:2170:A:N6	2.49	0.60
25:BA:2248:C:H2'	25:BA:2249:U:O4'	2.00	0.60
25:BA:2307:G:N9	25:BA:2308:G:H1'	2.16	0.60
25:BA:2462:U:C2	25:BA:2463:C:C5	2.90	0.60
25:BA:2476:A:N7	25:BA:2477:C:C5	2.70	0.60
25:BA:2497:A:H5''	25:BA:2497:A:H8	1.67	0.60
25:BA:2576:G:OP1	25:BA:2577:A:OP1	2.18	0.60
25:BA:2663:G:H2'	25:BA:2664:G:O4'	2.00	0.60
25:BA:2745:C:H2'	25:BA:2746:U:C6	2.37	0.60
25:BA:2843:G:H2'	25:BA:2844:G:C8	2.36	0.60
25:BA:2856:C:H2'	25:BA:2857:G:C5'	2.32	0.60
25:BA:363(A):A:H2'	25:BA:363(A):A:N3	2.15	0.60
25:BA:223:A:C4	25:BA:422:A:C8	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:234:C:N4	25:BA:430:G:H22	1.99	0.60
25:BA:496:G:O6	25:BA:497:A:C6	2.54	0.60
25:BA:503:A:C2	25:BA:505:A:N6	2.63	0.60
25:BA:803:U:H2'	25:BA:804:A:O4'	1.99	0.60
25:BA:89:G:C2	25:BA:90:U:O4	2.54	0.60
25:BA:975:G:C8	25:BA:990:A:N6	2.69	0.60
28:BD:151:LYS:HD2	28:BD:154:LYS:HZ3	1.66	0.60
28:BD:182:LEU:CD1	28:BD:270:ILE:HD11	2.31	0.60
28:BD:143:HIS:CD2	28:BD:192:THR:HB	2.36	0.60
28:BD:5:LYS:CE	28:BD:31:LYS:NZ	2.64	0.60
25:BA:1656:C:OP2	29:BE:117:MET:HG3	2.01	0.60
29:BE:127:ASP:CG	29:BE:135:HIS:N	2.53	0.60
25:BA:2052:G:O5'	29:BE:141:ILE:HD11	2.00	0.60
29:BE:46:ALA:C	29:BE:48:GLN:NE2	2.43	0.60
32:BH:165:ALA:HB3	32:BH:167:GLU:OE1	2.02	0.60
33:BK:9:LEU:O	33:BK:9:LEU:HD23	2.01	0.60
35:BM:107:LEU:HD12	35:BM:116:LEU:HB3	1.84	0.60
35:BM:26:LEU:O	35:BM:30:ILE:CD1	2.50	0.60
37:BO:121:LYS:CB	37:BO:137:LYS:HG3	2.25	0.60
37:BO:56:SER:HB3	55:B7:13:ARG:HE	1.64	0.60
38:BP:130:LYS:HZ2	38:BP:130:LYS:HB3	1.66	0.60
38:BP:77:LYS:O	38:BP:78:PRO:O	2.19	0.60
39:BQ:48:VAL:O	39:BQ:52:ILE:HG22	2.00	0.60
40:BR:101:LEU:O	40:BR:104:GLY:CA	2.49	0.60
26:BB:7:G:C4'	40:BR:29:PHE:CZ	2.77	0.60
40:BR:49:VAL:CG2	40:BR:76:LYS:HZ2	2.10	0.60
41:BS:105:LEU:CG	41:BS:106:SER:H	2.06	0.60
41:BS:7:ILE:O	41:BS:11:GLU:OE2	2.20	0.60
25:BA:1215:G:O3'	42:BT:11:ARG:NH1	2.35	0.60
43:BU:6:LYS:HG3	43:BU:12:TYR:HB3	1.82	0.60
43:BU:79:VAL:HB	43:BU:81:TYR:HB2	1.84	0.60
45:BW:12:VAL:CB	45:BW:27:THR:O	2.42	0.60
46:BX:1:MET:H2	46:BX:33:LYS:HE3	1.64	0.60
47:BY:122:ARG:CG	47:BY:171:ILE:HA	2.32	0.60
47:BY:17:ALA:HA	47:BY:20:ARG:HE	1.66	0.60
33:BK:78:THR:CG2	33:BK:143:SER:OG	2.47	0.60
33:BK:87:LYS:CE	33:BK:121:LYS:H	2.14	0.60
25:BA:1095:A:N7	25:BA:1097:U:O4	2.34	0.60
22:AV:30:LEU:CD1	22:AV:50:ALA:HB2	2.30	0.60
14:AN:86:GLY:N	14:AN:112:THR:HG23	2.16	0.60
1:AA:1101:A:O2'	1:AA:1102:A:P	2.59	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1128:C:C5	1:AA:1139:G:O6	2.55	0.60
1:AA:1451:A:C5'	1:AA:1452:C:H5	2.14	0.60
1:AA:151:A:N7	1:AA:152:A:C2	2.70	0.60
1:AA:262:A:C2	1:AA:263:A:C2	2.90	0.60
1:AA:34:C:H1'	15:AO:32:PHE:HE2	1.66	0.60
1:AA:447:G:N2	1:AA:488:C:N4	2.49	0.60
1:AA:57:G:C6	1:AA:58:C:C4	2.90	0.60
1:AA:599:C:O3'	11:AK:96:GLY:HA3	2.00	0.60
1:AA:675:A:H1'	14:AN:116:HIS:CG	2.37	0.60
1:AA:739:C:OP1	18:AR:2:PRO:HG2	2.01	0.60
5:AE:174:VAL:O	5:AE:178:ARG:CG	2.48	0.60
5:AE:50:GLU:CD	5:AE:200:ILE:HB	2.21	0.60
5:AE:224:GLN:HG2	5:AE:229:VAL:CG2	2.29	0.60
7:AG:152:SER:HA	7:AG:155:LEU:HD23	1.84	0.60
8:AH:72:GLN:O	8:AH:73:ASN:CB	2.49	0.60
10:AJ:84:ASN:O	10:AJ:85:TYR:HD2	1.84	0.60
11:AK:18:ARG:HG3	11:AK:18:ARG:HH11	1.67	0.60
18:AR:12:ILE:HG12	18:AR:31:LEU:HD11	1.82	0.60
19:AS:39:TYR:HE1	19:AS:41:PRO:HA	1.67	0.60
23:AW:57:ARG:HH21	23:AW:100:ILE:CD1	2.13	0.60
50:B2:26:LEU:HD11	50:B2:46:ASN:HB3	1.82	0.60
53:B5:8:LYS:O	53:B5:9:LEU:HD23	2.01	0.60
55:B7:23:VAL:CG1	55:B7:46:ARG:HB3	2.31	0.60
25:BA:1024:G:N2	25:BA:1139:G:C2	2.69	0.60
25:BA:1166:C:C2	25:BA:1184:G:C2	2.90	0.60
25:BA:119:A:O2'	25:BA:120:U:P	2.59	0.60
25:BA:1342:A:N1	25:BA:1397:U:C5	2.69	0.60
25:BA:1358:G:C8	25:BA:1371:G:N1	2.70	0.60
25:BA:1419:A:N6	25:BA:1421:G:C2	2.69	0.60
25:BA:1457:A:O2'	25:BA:1459:G:H8	1.85	0.60
25:BA:1538:G:N1	25:BA:1539:G:C2	2.69	0.60
25:BA:1579:A:H61	25:BA:1581:G:H22	1.50	0.60
25:BA:1580:A:H2'	25:BA:1581:G:C1'	2.30	0.60
25:BA:14:A:N6	25:BA:15:G:C2	2.64	0.60
25:BA:1619:G:C2	25:BA:1620:G:C8	2.90	0.60
25:BA:1661:G:O2'	25:BA:1662:C:H5'	2.01	0.60
25:BA:173:G:N2	25:BA:174:C:C6	2.69	0.60
25:BA:739:G:C2'	25:BA:1784:A:H61	2.03	0.60
25:BA:1936:A:N9	25:BA:1940:U:N3	2.50	0.60
25:BA:1984:G:C4	25:BA:1985:G:C8	2.90	0.60
25:BA:2191:G:C2	25:BA:2192:G:H1'	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2195:C:C2	25:BA:2196:C:C6	2.90	0.60
25:BA:2361:A:N3	25:BA:2361:A:H2'	2.16	0.60
25:BA:2416:C:C2	25:BA:2417:C:C5	2.90	0.60
25:BA:2472:G:H2'	25:BA:2475:C:H42	1.65	0.60
25:BA:2569:G:C6	25:BA:2570:G:N7	2.68	0.60
25:BA:2690:C:N4	39:BQ:14:SER:OG	2.35	0.60
25:BA:2714:G:H5''	25:BA:2714:G:C8	2.31	0.60
25:BA:2782:G:H2'	25:BA:2783:G:C8	2.36	0.60
25:BA:2843:G:C2	25:BA:2844:G:N7	2.69	0.60
25:BA:2886:G:O2'	52:B4:32:PRO:HD2	2.00	0.60
25:BA:351:G:O2'	25:BA:352:G:P	2.60	0.60
25:BA:351:G:O2'	25:BA:352:G:N7	2.32	0.60
25:BA:372:G:H3'	25:BA:372:G:H8	1.66	0.60
25:BA:459:U:OP1	54:B6:40:TRP:CA	2.40	0.60
25:BA:635:C:O2'	25:BA:639:U:OP1	2.18	0.60
25:BA:641:C:C5	25:BA:642:G:N3	2.64	0.60
25:BA:648:G:O2'	25:BA:649:G:H5'	2.00	0.60
25:BA:586:A:C2	25:BA:810:U:O4'	2.55	0.60
25:BA:818:G:N2	25:BA:1190:G:C6	2.69	0.60
25:BA:974:G:C2'	25:BA:1186:G:C4	2.85	0.60
26:BB:110:G:C4	26:BB:111:U:H1'	2.37	0.60
26:BB:49:C:H6	26:BB:49:C:O5'	1.84	0.60
27:BC:190:ARG:CG	27:BC:193:ILE:HD12	2.28	0.60
27:BC:43:VAL:CG2	27:BC:175:VAL:HG21	2.32	0.60
28:BD:78:LYS:HG2	28:BD:115:GLN:O	2.01	0.60
28:BD:131:LEU:CD2	28:BD:135:PHE:HB2	2.30	0.60
28:BD:133:LEU:HD11	28:BD:189:CYS:HB2	1.84	0.60
28:BD:223:GLY:C	28:BD:225:ALA:H	1.99	0.60
28:BD:246:PRO:HD2	28:BD:250:TRP:CA	2.31	0.60
25:BA:2734:A:C2	29:BE:203:LYS:HB3	2.36	0.60
29:BE:8:LYS:CB	29:BE:24:THR:CG2	2.80	0.60
30:BF:103:LYS:CA	30:BF:106:ARG:HG2	2.31	0.60
30:BF:185:ASP:HA	30:BF:188:ARG:CZ	2.30	0.60
30:BF:91:GLY:C	30:BF:93:LYS:H	2.04	0.60
32:BH:87:LEU:O	32:BH:131:VAL:O	2.18	0.60
36:BN:64:ARG:NH1	36:BN:67:LYS:N	2.49	0.60
25:BA:1667:G:OP1	36:BN:6:THR:CB	2.50	0.60
38:BP:109:VAL:CG1	38:BP:114:ALA:N	2.54	0.60
40:BR:28:VAL:HG11	40:BR:90:GLY:HA2	1.82	0.60
41:BS:67:SER:OG	41:BS:75:ILE:HG23	2.02	0.60
43:BU:57:VAL:CG1	43:BU:58:VAL:H	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BX:29:GLU:OE1	46:BX:32:PRO:O	2.18	0.60
1:AA:1442:G:C6	1:AA:1446:A:N6	2.70	0.60
25:BA:1630:G:C5	25:BA:1630(A):C:H5	2.19	0.60
1:AA:1159:U:C4	1:AA:1182:G:H1'	2.36	0.60
1:AA:1392:G:H2'	1:AA:1393:U:C6	2.37	0.60
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.66	0.60
1:AA:67:C:C4'	1:AA:172:A:H1'	2.32	0.60
1:AA:186(E):C:O2'	1:AA:186(F):C:H5'	2.01	0.60
1:AA:263:A:O2'	1:AA:264:U:H5''	2.01	0.60
1:AA:320:C:O2'	1:AA:321:A:H5'	2.01	0.60
1:AA:58:C:O2	1:AA:388:G:N7	2.35	0.60
1:AA:597:G:C4	1:AA:644:G:C2	2.89	0.60
1:AA:64:G:N2	1:AA:68:G:O6	2.31	0.60
1:AA:701:C:C4'	1:AA:702:A:O5'	2.44	0.60
1:AA:735:C:C2'	1:AA:736:C:O5'	2.48	0.60
1:AA:832:C:C2	1:AA:833:U:C5	2.90	0.60
1:AA:858:G:H8	1:AA:858:G:O5'	1.84	0.60
3:AD:49:G:N3	3:AD:49:G:H2'	2.17	0.60
5:AE:118:LEU:HD11	5:AE:141:GLU:OE2	2.01	0.60
5:AE:134:GLU:O	5:AE:138:LEU:HG	2.01	0.60
6:AF:59:ARG:CZ	6:AF:59:ARG:HB2	2.32	0.60
7:AG:67:ILE:HD12	7:AG:67:ILE:C	2.22	0.60
7:AG:94:LEU:HA	7:AG:97:LEU:CD1	2.21	0.60
8:AH:84:PHE:HE2	8:AH:130:ASN:ND2	1.99	0.60
10:AJ:28:ASN:ND2	10:AJ:31:MET:HE1	2.17	0.60
10:AJ:50:ILE:HG22	10:AJ:56:GLN:O	2.02	0.60
13:AM:57:LYS:O	13:AM:58:ASP:CG	2.39	0.60
14:AN:69:ALA:O	14:AN:70:LYS:C	2.40	0.60
1:AA:1316:G:H5''	17:AQ:17:LYS:NZ	2.15	0.60
6:AF:12:LEU:HD11	17:AQ:57:ARG:HA	1.84	0.60
19:AS:15:PRO:HB2	19:AS:17:TYR:CE1	2.36	0.60
22:AV:36:ARG:NE	22:AV:51:VAL:HG12	2.15	0.60
23:AW:57:ARG:HH21	23:AW:100:ILE:CG1	2.14	0.60
49:B1:6:GLU:HB3	49:B1:10:LYS:NZ	2.16	0.60
52:B4:6:VAL:HG22	52:B4:7:PRO:HD2	1.82	0.60
54:B6:5:TRP:HZ3	54:B6:12:ARG:NH1	1.99	0.60
25:BA:126:A:H5''	54:B6:18:PHE:CD1	2.36	0.60
56:B8:17:ILE:HD12	56:B8:26:ILE:CB	2.30	0.60
25:BA:1202:C:C3'	25:BA:1203:G:P	2.89	0.60
25:BA:1222:C:N3	25:BA:1223:C:H5	2.00	0.60
25:BA:1407:C:O2'	25:BA:1408:C:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1708:C:O2'	25:BA:1709:U:H5''	2.00	0.60
25:BA:1764:G:H2'	25:BA:1765:C:C6	2.35	0.60
25:BA:2016:U:O4'	52:B4:6:VAL:HG11	2.02	0.60
25:BA:2043:C:H2'	25:BA:2044:C:O5'	2.00	0.60
25:BA:2197:U:H2'	25:BA:2224:G:N2	2.16	0.60
25:BA:2296:U:H3'	25:BA:2296:U:C6	2.37	0.60
25:BA:2390:U:O2'	25:BA:2391:G:H5'	2.02	0.60
25:BA:2406:U:O4	37:BO:64:LYS:O	2.19	0.60
25:BA:2431:U:OP2	25:BA:2432:A:OP2	2.19	0.60
25:BA:2497:A:OP2	25:BA:2497:A:C8	2.54	0.60
25:BA:2611:U:O2'	25:BA:2612:C:O5'	2.19	0.60
25:BA:2657:A:H62	25:BA:2664:G:H21	1.48	0.60
25:BA:2703:C:C5	25:BA:2704:C:C5	2.90	0.60
25:BA:271:G:H2'	25:BA:271:G:N3	2.15	0.60
25:BA:2876:G:OP1	41:BS:2:ASN:CB	2.50	0.60
25:BA:387:U:H4'	25:BA:388:G:O4'	2.01	0.60
25:BA:500:G:O2'	25:BA:501:A:H3'	2.01	0.60
25:BA:638:G:H2'	25:BA:639:U:H5'	1.82	0.60
25:BA:685:A:C2'	25:BA:686:G:OP2	2.50	0.60
25:BA:722:A:N3	25:BA:723:G:C8	2.70	0.60
25:BA:728:G:O4'	25:BA:729:G:N7	2.35	0.60
25:BA:729:G:N9	25:BA:730:C:H1'	2.15	0.60
25:BA:740:U:C6	25:BA:1784:A:N7	2.69	0.60
25:BA:904:C:H2'	25:BA:905:U:C6	2.31	0.60
25:BA:948:G:C6	25:BA:949:C:C4	2.90	0.60
26:BB:112:G:N2	26:BB:113:C:C2	2.69	0.60
28:BD:165:ILE:HD12	28:BD:165:ILE:N	2.17	0.60
29:BE:116:VAL:O	29:BE:120:TRP:CD1	2.51	0.60
29:BE:142:GLY:O	29:BE:143:ASN:CB	2.50	0.60
29:BE:171:GLU:H	29:BE:185:LYS:HZ3	1.49	0.60
29:BE:171:GLU:CB	29:BE:185:LYS:HD2	2.29	0.60
29:BE:50:GLY:O	29:BE:76:ARG:NE	2.34	0.60
30:BF:132:VAL:HG23	30:BF:132:VAL:O	2.01	0.60
30:BF:24:LEU:N	30:BF:25:PRO:CD	2.63	0.60
31:BG:166:ASP:O	31:BG:167:GLU:C	2.38	0.60
31:BG:19:LEU:HA	31:BG:22:ARG:HE	1.66	0.60
31:BG:78:SER:CB	31:BG:82:LEU:HG	2.31	0.60
31:BG:68:PRO:HG3	31:BG:90:LEU:HD21	1.84	0.60
33:BK:24:GLY:HA2	33:BK:27:ARG:CD	2.29	0.60
35:BM:20:GLY:O	35:BM:61:ARG:NE	2.34	0.60
36:BN:77:ILE:O	41:BS:75:ILE:HG13	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:39:PRO:HG3	38:BP:127:ILE:CD1	2.32	0.60
38:BP:79:LEU:HG	38:BP:81:VAL:HG23	1.82	0.60
39:BQ:28:LEU:HD21	39:BQ:116:LEU:HD23	1.83	0.60
39:BQ:65:LEU:O	39:BQ:68:ARG:N	2.34	0.60
40:BR:11:LYS:HZ3	40:BR:11:LYS:HB2	1.64	0.60
40:BR:13:ARG:HD3	40:BR:89:ARG:HE	1.65	0.60
41:BS:109:GLU:O	41:BS:110:ILE:HB	2.02	0.60
41:BS:34:VAL:HG22	41:BS:36:GLU:HG3	1.84	0.60
29:BE:8:LYS:CD	41:BS:3:ARG:HG3	2.30	0.60
43:BU:21:ARG:O	43:BU:22:VAL:O	2.19	0.60
43:BU:6:LYS:NZ	43:BU:10:LYS:HD2	2.16	0.60
43:BU:78:LYS:HD2	43:BU:79:VAL:O	2.02	0.60
46:BX:45:VAL:HA	46:BX:57:GLN:OE1	2.02	0.60
48:BZ:71:ASP:OD2	48:BZ:77:ARG:NH1	2.35	0.60
33:BK:144:VAL:O	33:BK:145:VAL:HG23	2.01	0.60
1:AA:1043:C:O2'	1:AA:1044:A:H5'	2.01	0.60
1:AA:1174:G:H2'	1:AA:1175:G:H5'	1.83	0.60
1:AA:1189:C:O2'	6:AF:176:HIS:CD2	2.55	0.60
1:AA:1350:A:H2'	1:AA:1351:U:C6	2.35	0.60
1:AA:1441:G:H1'	1:AA:1461:G:N2	2.17	0.60
1:AA:1475:G:C2	1:AA:1476:G:C4	2.88	0.60
1:AA:1480:G:C2'	1:AA:1481:U:H5'	2.31	0.60
1:AA:151:A:H62	1:AA:152:A:H2	1.49	0.60
1:AA:231:G:H2'	1:AA:232:G:C8	2.35	0.60
1:AA:258:G:O6	1:AA:259:G:O6	2.20	0.60
1:AA:607:A:N1	19:AS:31:LYS:HG3	2.16	0.60
1:AA:609:A:H2'	1:AA:610:G:O4'	2.02	0.60
1:AA:666:G:H5'	1:AA:726:C:H1'	1.84	0.60
1:AA:782:A:C2	1:AA:801:U:H1'	2.37	0.60
1:AA:816:A:H2'	1:AA:817:C:OP2	2.01	0.60
1:AA:858:G:H22	1:AA:869:G:C3'	2.14	0.60
1:AA:877:C:H5''	11:AK:88:LYS:HG2	1.82	0.60
1:AA:886:G:HO2'	1:AA:887:G:H5'	1.64	0.60
5:AE:169:LYS:HE2	5:AE:169:LYS:C	2.22	0.60
5:AE:25:ASN:ND2	5:AE:27:LYS:HG2	1.99	0.60
5:AE:75:LYS:C	5:AE:75:LYS:HD3	2.22	0.60
5:AE:80:ILE:HD12	5:AE:211:ILE:CG2	2.31	0.60
6:AF:30:ARG:HH11	6:AF:31:HIS:H	1.46	0.60
7:AG:166:LYS:HG2	7:AG:178:VAL:HG11	1.84	0.60
7:AG:187:ARG:HE	7:AG:188:LEU:HG	1.65	0.60
7:AG:43:HIS:C	7:AG:45:GLN:N	2.54	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:84:PHE:CD2	8:AH:84:PHE:O	2.54	0.60
11:AK:110:ALA:C	11:AK:111:ILE:HD12	2.21	0.60
11:AK:82:HIS:HE1	11:AK:84:ARG:HB2	1.66	0.60
12:AL:51:ARG:HH11	12:AL:51:ARG:CA	2.13	0.60
12:AL:93:ARG:O	12:AL:95:LYS:N	2.33	0.60
1:AA:1152:A:H4'	13:AM:13:HIS:CE1	2.37	0.60
13:AM:3:LYS:HD2	13:AM:3:LYS:N	2.16	0.60
14:AN:45:GLY:O	14:AN:50:TYR:CB	2.38	0.60
14:AN:81:ASP:HB2	14:AN:106:LYS:HE3	1.84	0.60
15:AO:53:ARG:HH11	15:AO:53:ARG:CB	2.11	0.60
16:AP:67:GLU:CG	16:AP:68:GLY:N	2.59	0.60
17:AQ:23:ARG:HA	17:AQ:33:VAL:HG11	1.81	0.60
1:AA:1319:A:OP2	22:AV:5:LEU:HD22	2.02	0.60
49:B1:38:GLN:H	49:B1:41:GLN:NE2	2.00	0.60
50:B2:17:LYS:O	50:B2:19:GLN:N	2.35	0.60
51:B3:28:LYS:CG	51:B3:29:PRO:HD2	2.32	0.60
53:B5:20:ASN:OD1	53:B5:42:TRP:CD1	2.54	0.60
54:B6:38:GLY:O	54:B6:39:ARG:CB	2.49	0.60
25:BA:1027:A:H2'	25:BA:1028:A:C8	2.34	0.60
25:BA:1189:A:C2'	25:BA:1190:G:H5'	2.32	0.60
25:BA:813:U:H1'	25:BA:1225:C:O2	2.01	0.60
25:BA:1228:G:H8	25:BA:1228:G:H5'	1.67	0.60
25:BA:1349:A:H5'	25:BA:1350:C:C5'	2.31	0.60
25:BA:1541:U:O2	25:BA:1542:G:N1	2.35	0.60
25:BA:1707:G:C1'	25:BA:1758:G:N2	2.64	0.60
25:BA:1786:A:C8	25:BA:1786:A:P	2.95	0.60
25:BA:1879:C:C4	25:BA:1880:C:C4	2.90	0.60
25:BA:1938:A:C2	25:BA:2590:A:H1'	2.37	0.60
25:BA:1938:A:H4'	25:BA:1939:U:OP1	2.01	0.60
25:BA:2286:A:N7	53:B5:31:PRO:N	2.50	0.60
25:BA:2370:G:O2'	53:B5:45:LYS:HD3	2.02	0.60
25:BA:1265:A:OP2	25:BA:2615:U:OP1	2.18	0.60
25:BA:282:A:N7	25:BA:283:A:H4'	2.17	0.60
25:BA:2830:G:N3	25:BA:2883:A:H2	2.00	0.60
25:BA:364:C:C2'	25:BA:365:C:H6	2.12	0.60
25:BA:411:G:N1	25:BA:2407:G:C5	2.70	0.60
25:BA:65:C:O2'	25:BA:456:C:O2	2.19	0.60
25:BA:531:C:N4	42:BT:38:THR:CG2	2.59	0.60
25:BA:684:G:N1	25:BA:794:G:C2	2.70	0.60
25:BA:720:C:C2	25:BA:721:C:C5	2.90	0.60
25:BA:783:A:O2'	25:BA:2588:G:H4'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:467:G:O2'	25:BA:796:C:O2'	2.12	0.60
25:BA:862:G:H21	26:BB:100:G:H1'	1.66	0.60
25:BA:958:U:O2'	25:BA:959:A:OP2	2.19	0.60
25:BA:974(A):C:O2	25:BA:989:G:C2	2.54	0.60
27:BC:7:TYR:CE2	27:BC:11:LEU:HB2	2.37	0.60
29:BE:114:ALA:HB1	29:BE:118:LYS:HB2	1.83	0.60
29:BE:164:ARG:HD3	29:BE:165:VAL:HA	1.84	0.60
30:BF:135:LYS:HD3	30:BF:136:THR:N	2.16	0.60
32:BH:105:LEU:HD23	32:BH:105:LEU:N	2.15	0.60
35:BM:128:HIS:N	35:BM:129:PRO:CD	2.58	0.60
25:BA:2640:G:H4'	35:BM:75:TYR:OH	2.02	0.60
36:BN:111:PHE:C	36:BN:113:LYS:N	2.53	0.60
36:BN:18:LYS:HB3	36:BN:45:GLU:CG	2.32	0.60
25:BA:2674:G:H4'	36:BN:26:LYS:CE	2.32	0.60
37:BO:121:LYS:HB3	37:BO:133:SER:OG	2.02	0.60
37:BO:136:GLU:HB3	37:BO:137:LYS:HZ1	1.67	0.60
25:BA:1249:U:O4	37:BO:21:ARG:NH2	2.35	0.60
25:BA:627:A:O4'	37:BO:75:ILE:HG21	2.01	0.60
38:BP:27:VAL:HG22	38:BP:28:ALA:N	2.16	0.60
38:BP:46:GLN:OE1	38:BP:126:PRO:N	2.34	0.60
39:BQ:97:VAL:HA	39:BQ:114:VAL:CG2	2.23	0.60
40:BR:40:ILE:HG23	40:BR:41:ASP:H	1.66	0.60
40:BR:49:VAL:HG11	40:BR:77:ALA:CB	2.31	0.60
40:BR:75:GLU:O	40:BR:78:LEU:HB3	2.01	0.60
41:BS:15:VAL:HG13	41:BS:18:ASP:HA	1.82	0.60
25:BA:1218:C:OP2	42:BT:15:LYS:HE2	2.02	0.60
25:BA:29:U:P	42:BT:5:LYS:HE2	2.42	0.60
43:BU:6:LYS:HE2	43:BU:12:TYR:H	1.66	0.60
44:BV:86:LEU:HG	44:BV:87:PRO:HD2	1.83	0.60
45:BW:33:LYS:NZ	45:BW:33:LYS:CB	2.65	0.60
47:BY:24:LEU:HD13	47:BY:83:PRO:O	2.02	0.60
47:BY:29:TYR:HB3	47:BY:89:PHE:CD2	2.36	0.60
47:BY:77:ASP:CB	47:BY:82:ARG:O	2.50	0.60
48:BZ:56:ASP:OD2	48:BZ:58:THR:OG1	2.16	0.60
25:BA:1104:C:C4	25:BA:1105:U:C4	2.89	0.60
34:BL:77:LEU:HD12	34:BL:111:LYS:CD	2.31	0.60
34:BL:61:ALA:O	34:BL:62:ASP:HB2	2.01	0.60
1:AA:974:A:N6	1:AA:1201:A:H2	1.99	0.60
1:AA:124:G:H2'	1:AA:125:U:C6	2.37	0.60
1:AA:1299:A:N7	1:AA:1301:U:N1	2.49	0.60
1:AA:1396:A:O2'	1:AA:1397:C:P	2.59	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1432:G:C5'	41:BS:111:ARG:HH11	2.15	0.60
1:AA:198:G:N2	1:AA:199:G:N9	2.50	0.60
1:AA:296:U:C2	1:AA:297:G:C8	2.90	0.60
1:AA:309:G:O2'	1:AA:310:G:C5'	2.49	0.60
1:AA:358:U:O2'	1:AA:359:U:H5'	2.01	0.60
1:AA:579:G:C8	1:AA:579:G:O5'	2.54	0.60
1:AA:706:A:C2	1:AA:707:C:C6	2.90	0.60
1:AA:718:G:C5	14:AN:116:HIS:NE2	2.69	0.60
1:AA:909:A:O5'	1:AA:909:A:H8	1.83	0.60
1:AA:922:G:H2'	1:AA:923:A:C8	2.37	0.60
1:AA:963:G:H5'	1:AA:1200:C:H41	1.67	0.60
3:AD:36:A:C3'	3:AD:37:A:H8	2.15	0.60
7:AG:110:PHE:CZ	7:AG:147:ALA:HA	2.37	0.60
7:AG:176:LEU:HD11	7:AG:178:VAL:CG2	2.28	0.60
7:AG:4:TYR:CE2	7:AG:5:ILE:O	2.55	0.60
1:AA:401:C:OP1	7:AG:73:ARG:CZ	2.49	0.60
7:AG:7:PRO:O	7:AG:10:ARG:HB3	2.02	0.60
8:AH:8:GLU:O	8:AH:8:GLU:HG3	2.01	0.60
9:AI:40:VAL:HG22	9:AI:40:VAL:O	2.02	0.60
11:AK:10:LEU:HB3	11:AK:83:ILE:CD1	2.32	0.60
11:AK:14:ARG:O	11:AK:17:THR:CB	2.49	0.60
11:AK:89:PRO:CA	11:AK:92:ARG:HE	2.02	0.60
1:AA:690:G:OP2	14:AN:27:ASN:ND2	2.35	0.60
16:AP:11:ARG:HH11	16:AP:11:ARG:HG3	1.66	0.60
16:AP:2:ALA:C	16:AP:4:ILE:H	2.05	0.60
16:AP:14:ARG:H	16:AP:44:ARG:HD2	1.64	0.60
18:AR:66:LEU:H	18:AR:66:LEU:HD22	1.66	0.60
18:AR:71:GLN:CG	18:AR:75:PRO:HB3	2.31	0.60
20:AT:82:MET:SD	20:AT:85:VAL:HG21	2.42	0.60
20:AT:87:LYS:O	20:AT:91:ARG:HB3	2.02	0.60
22:AV:70:LYS:O	22:AV:72:GLY:N	2.35	0.60
22:AV:38:SER:OG	22:AV:71:LEU:HD12	2.02	0.60
23:AW:49:ALA:HA	23:AW:92:LEU:CD2	2.32	0.60
51:B3:68:ARG:N	51:B3:68:ARG:HD3	2.17	0.60
52:B4:4:HIS:HB3	52:B4:5:PRO:HD3	1.84	0.60
25:BA:1142:U:H3'	25:BA:1142(A):A:C5	2.35	0.60
25:BA:1181:C:H2'	25:BA:1182:A:H8	1.61	0.60
25:BA:1260:G:H2'	25:BA:1261:C:H5'	1.82	0.60
25:BA:1271:G:H8	25:BA:1271:G:H3'	1.65	0.60
25:BA:1299:G:O3'	25:BA:1300:U:O4'	2.19	0.60
25:BA:1520:U:H2'	25:BA:1521:G:O4'	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1448:G:O3'	25:BA:1543:A:N1	2.35	0.60
25:BA:1545(A):A:C2'	25:BA:1546:C:H5'	2.32	0.60
25:BA:1559:G:H1	25:BA:1560:G:H4'	1.65	0.60
25:BA:1672:C:C3'	25:BA:1673:U:C5'	2.79	0.60
25:BA:1899:G:N2	25:BA:1902:C:H41	1.99	0.60
25:BA:1928:A:C3'	25:BA:1929:G:H5'	2.32	0.60
25:BA:1669:A:N1	25:BA:1994:C:H1'	2.16	0.60
25:BA:2010:G:C2'	25:BA:2011:U:H5'	2.32	0.60
25:BA:2027:G:H2'	25:BA:2028:U:H6	1.66	0.60
25:BA:570:G:C5	25:BA:2030:A:H2	2.19	0.60
25:BA:2059:A:N1	25:BA:2503:A:C5	2.70	0.60
25:BA:2094:G:H5'	25:BA:2198:A:H61	1.67	0.60
25:BA:221:A:H2	25:BA:233:A:N3	2.00	0.60
25:BA:2306:C:N4	25:BA:2311:A:C2	2.70	0.60
25:BA:2307:G:C4'	25:BA:2311:A:H62	2.15	0.60
25:BA:2385:C:C2'	25:BA:2386:C:O5'	2.50	0.60
25:BA:250:G:C6	25:BA:251:A:N6	2.69	0.60
25:BA:2619:C:H2'	25:BA:2620:C:O5'	2.01	0.60
25:BA:2657:A:N7	25:BA:2658:C:C5	2.70	0.60
25:BA:2702:U:C6	25:BA:2702:U:H3'	2.36	0.60
25:BA:2709:G:C2'	25:BA:2710:C:H5'	2.31	0.60
25:BA:2848:G:O5'	41:BS:99:LEU:CD1	2.50	0.60
25:BA:2850:A:N3	25:BA:2869:G:H4'	2.17	0.60
25:BA:297:C:C3'	25:BA:298:G:C8	2.83	0.60
25:BA:317:G:N2	25:BA:318:C:C2	2.69	0.60
25:BA:331:A:C2	25:BA:1209:G:C6	2.90	0.60
25:BA:627:A:C4	25:BA:637:A:C4	2.89	0.60
25:BA:644:A:OP1	25:BA:2369:A:N3	2.35	0.60
25:BA:672:C:OP2	37:BO:38:GLN:CG	2.50	0.60
25:BA:676:A:H2'	25:BA:677:A:H5'	1.84	0.60
25:BA:704:G:C2	25:BA:726:G:O2'	2.55	0.60
25:BA:734:A:N3	25:BA:734:A:H2'	2.16	0.60
25:BA:775:G:H5'	25:BA:777:A:N3	2.17	0.60
25:BA:827:U:H4'	25:BA:828:U:N3	2.17	0.60
25:BA:836:G:O6	25:BA:943:U:O4	2.19	0.60
27:BC:116:THR:HB	27:BC:147:PHE:HA	1.84	0.60
27:BC:10:LEU:HG	27:BC:220:PRO:HG3	1.83	0.60
28:BD:125:ILE:HG23	28:BD:137:PRO:HG3	1.82	0.60
28:BD:161:THR:CA	28:BD:196:VAL:HG23	2.32	0.60
29:BE:119:ARG:NH1	29:BE:155:LYS:HD2	2.16	0.60
29:BE:176:ILE:HG22	29:BE:181:LEU:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:60:ASN:OD1	29:BE:61:ARG:CD	2.50	0.60
30:BF:118:ALA:HA	30:BF:122:LYS:HB2	1.83	0.60
25:BA:1204:A:N1	30:BF:187:VAL:O	2.35	0.60
30:BF:54:ARG:HA	30:BF:56:GLU:OE1	2.01	0.60
33:BK:4:ILE:HA	33:BK:18:VAL:CG2	2.15	0.60
35:BM:126:PRO:HB2	35:BM:127:ASP:OD1	2.02	0.60
35:BM:87:LEU:N	35:BM:87:LEU:HD23	2.17	0.60
36:BN:22:ILE:HG13	36:BN:41:ALA:HA	1.83	0.60
36:BN:18:LYS:HZ3	36:BN:44:LYS:HE3	1.66	0.60
37:BO:126:VAL:N	37:BO:145:PRO:HA	2.17	0.60
38:BP:65:PHE:C	38:BP:105:GLU:HG3	2.22	0.60
40:BR:70:GLY:C	40:BR:104:GLY:HA2	2.21	0.60
40:BR:89:ARG:HG2	40:BR:89:ARG:HH21	1.66	0.60
42:BT:95:LEU:O	42:BT:106:PHE:CE1	2.54	0.60
42:BT:24:TYR:N	42:BT:24:TYR:CD1	2.69	0.60
25:BA:533:G:P	42:BT:25:TRP:HB2	2.42	0.60
35:BM:42:TRP:CE3	42:BT:67:ALA:HB1	2.37	0.60
42:BT:89:GLU:O	42:BT:90:VAL:HG23	2.02	0.60
42:BT:93:LYS:H	43:BU:10:LYS:HZ2	1.50	0.60
43:BU:49:THR:HG22	43:BU:50:PRO:HD2	1.81	0.60
44:BV:58:ALA:HB1	44:BV:69:LEU:HD21	1.83	0.60
45:BW:62:LYS:C	45:BW:72:LYS:HG2	2.22	0.60
25:BA:298:G:OP1	46:BX:82:PRO:HA	2.02	0.60
47:BY:122:ARG:HG2	47:BY:171:ILE:HA	1.84	0.60
47:BY:69:THR:OG1	47:BY:88:PHE:HB3	2.01	0.60
48:BZ:50:ASN:C	48:BZ:62:LEU:HB3	2.21	0.60
33:BK:68:LEU:HD21	33:BK:107:VAL:CG1	2.29	0.60
1:AA:1540:U:H6	1:AA:1540:U:H5'	1.66	0.60
1:AA:81:G:H5'	1:AA:82:U:OP2	2.01	0.60
1:AA:76:G:H2'	1:AA:77:C:H6	1.64	0.60
1:AA:1101:A:O2'	1:AA:1102:A:OP2	2.19	0.60
1:AA:121:C:H1'	1:AA:123:C:H41	1.67	0.60
1:AA:181:G:O2'	1:AA:182:U:H5'	2.01	0.60
1:AA:296:U:H2'	1:AA:297:G:H8	1.66	0.60
1:AA:47:C:C5	1:AA:365:U:H2'	2.37	0.60
1:AA:390:C:N3	1:AA:391:G:N7	2.50	0.60
1:AA:468:A:OP1	19:AS:75:ARG:NH2	2.35	0.60
1:AA:487:A:H2'	1:AA:488:C:H5'	1.82	0.60
1:AA:509:A:H5'	7:AG:54:TYR:CD2	2.28	0.60
1:AA:854:G:N1	1:AA:855:G:N7	2.50	0.60
1:AA:962:C:O2'	1:AA:963:G:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:967:C:C6	1:AA:967:C:O5'	2.55	0.60
1:AA:974:A:C8	17:AQ:31:ARG:CZ	2.85	0.60
3:AD:18:G:H21	3:AD:58:A:H5'	1.66	0.60
3:AD:58:A:H2'	3:AD:61:C:C5	2.37	0.60
6:AF:107:GLN:O	6:AF:108:ASN:HB2	2.01	0.60
7:AG:150:GLU:OE2	7:AG:151:LYS:N	2.34	0.60
10:AJ:26:PHE:HB3	10:AJ:62:PHE:HZ	1.67	0.60
11:AK:10:LEU:O	11:AK:13:ILE:HB	2.01	0.60
1:AA:756:C:O4'	11:AK:1:MET:CE	2.49	0.60
13:AM:23:ILE:HG23	13:AM:85:LEU:CD2	2.24	0.60
13:AM:24:VAL:CA	13:AM:34:VAL:HG21	2.18	0.60
13:AM:82:ILE:O	13:AM:86:MET:CB	2.50	0.60
14:AN:90:GLY:C	14:AN:92:GLU:N	2.50	0.60
16:AP:36:LYS:HB3	16:AP:59:TYR:CZ	2.37	0.60
9:AI:49:ALA:CB	21:AU:80:PRO:HD3	2.32	0.60
22:AV:18:LYS:CE	22:AV:18:LYS:HA	2.31	0.60
23:AW:64:ASP:O	23:AW:67:ALA:CB	2.49	0.60
24:AX:6:ARG:HB2	24:AX:6:ARG:NH1	2.17	0.60
25:BA:1002:G:C2'	25:BA:1003:G:O5'	2.48	0.60
25:BA:10:G:C2	25:BA:2629:A:C2	2.90	0.60
25:BA:1165:U:H2'	25:BA:1166:C:C6	2.37	0.60
25:BA:120:U:C6	25:BA:150:C:H5	2.20	0.60
25:BA:1227:A:H8	25:BA:1227:A:H3'	1.66	0.60
25:BA:1252:G:N2	42:BT:37:GLU:OE2	2.33	0.60
25:BA:1338:G:H21	25:BA:1393:A:H2	1.50	0.60
25:BA:1366:A:H5''	51:B3:1:MET:N	2.16	0.60
25:BA:1483:G:H1'	25:BA:1507:A:H2	1.63	0.60
25:BA:1520:U:C2'	25:BA:1521:G:H5''	2.32	0.60
25:BA:1614:A:N3	25:BA:1614:A:C3'	2.63	0.60
25:BA:1668:A:N1	25:BA:1993:U:O2	2.35	0.60
25:BA:1999:C:C4	25:BA:2000:G:N7	2.70	0.60
25:BA:2052:G:H2'	25:BA:2053:G:C8	2.36	0.60
25:BA:2246:G:N2	25:BA:2247:A:C4	2.70	0.60
25:BA:2277:G:C6	25:BA:2278:A:N7	2.70	0.60
25:BA:2432:A:H5'	25:BA:2433:A:P	2.42	0.60
2:AC:76:A:N1	25:BA:2506:U:O4	2.35	0.60
25:BA:2531:A:N3	25:BA:2531:A:H2'	2.16	0.60
25:BA:2587:A:O2'	25:BA:2588:G:H5'	2.01	0.60
25:BA:2605:U:O2	25:BA:2606:C:C5	2.54	0.60
25:BA:2663:G:C8	25:BA:2664:G:C8	2.90	0.60
25:BA:2831:G:H1'	25:BA:2883:A:C2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:283:A:H5'	25:BA:283:A:C8	2.37	0.60
25:BA:310:A:C2	25:BA:312:G:H1'	2.36	0.60
25:BA:41:C:C2	25:BA:43:G:C8	2.90	0.60
25:BA:503:A:N3	25:BA:505:A:N7	2.50	0.60
25:BA:613:U:O5'	25:BA:615:G:H1'	2.02	0.60
25:BA:782:A:H4'	25:BA:783:A:OP1	2.00	0.60
25:BA:820:A:N1	25:BA:821:A:N3	2.50	0.60
25:BA:824:A:H3'	25:BA:825:C:H5	1.65	0.60
25:BA:976:C:H5'	25:BA:1156:A:H62	1.67	0.60
25:BA:996:A:H2'	25:BA:997:G:C8	2.32	0.60
25:BA:9:U:C2'	25:BA:9:U:O2	2.49	0.60
27:BC:62:VAL:O	27:BC:161:ILE:HD11	2.02	0.60
27:BC:167:LYS:HE3	27:BC:168:THR:HG23	1.84	0.60
28:BD:8:PRO:HG2	28:BD:26:LYS:H	1.65	0.60
31:BG:37:VAL:CG2	31:BG:159:VAL:HG12	2.32	0.60
32:BH:137:ASP:O	32:BH:139:GLN:N	2.35	0.60
37:BO:112:LEU:C	37:BO:129:ALA:HB3	2.23	0.60
37:BO:91:PHE:O	37:BO:95:VAL:CB	2.45	0.60
38:BP:67:ARG:CZ	38:BP:103:MET:CB	2.75	0.60
39:BQ:61:HIS:CE1	39:BQ:64:ARG:HE	2.20	0.60
39:BQ:6:SER:CB	39:BQ:9:LYS:HE3	2.32	0.60
40:BR:73:LEU:HA	40:BR:76:LYS:HB3	1.84	0.60
41:BS:10:VAL:HG12	41:BS:14:TYR:CE1	2.36	0.60
42:BT:105:VAL:O	42:BT:108:GLU:CD	2.40	0.60
42:BT:52:ARG:O	42:BT:53:ARG:C	2.40	0.60
42:BT:4:ALA:O	42:BT:6:THR:N	2.33	0.60
44:BV:13:SER:OG	44:BV:16:LYS:NZ	2.34	0.60
45:BW:32:PRO:HG3	45:BW:77:LYS:HB2	1.83	0.60
47:BY:39:VAL:HA	47:BY:44:PHE:CZ	2.37	0.60
33:BK:109:ILE:HG12	33:BK:113:ARG:HH22	1.65	0.60
33:BK:109:ILE:CG2	33:BK:113:ARG:NH2	2.64	0.60
33:BK:96:ASP:CA	33:BK:99:GLU:OE2	2.47	0.60
34:BL:106:GLU:HA	34:BL:109:LYS:CE	2.32	0.60
34:BL:79:ARG:CD	34:BL:134:MET:HG3	2.19	0.60
18:AR:45:VAL:O	18:AR:45:VAL:HG12	2.01	0.60
1:AA:1453:G:H2'	1:AA:1454:G:O4'	2.02	0.60
1:AA:67:C:H4'	1:AA:172:A:C1'	2.32	0.60
1:AA:519:C:O3'	15:AO:51:ALA:HB1	2.02	0.60
1:AA:812:C:O2'	1:AA:813:U:P	2.59	0.60
1:AA:858:G:H22	1:AA:869:G:H3'	1.67	0.60
2:AC:18:G:O5'	2:AC:18:G:H8	1.85	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:966:G:C2	2:AC:34:C:H5'	2.36	0.60
5:AE:92:TYR:N	5:AE:152:PHE:HA	2.03	0.60
5:AE:209:ARG:NH1	5:AE:213:LEU:HD12	2.17	0.60
5:AE:18:GLY:CA	5:AE:42:ILE:H	2.11	0.60
5:AE:48:MET:HA	5:AE:51:LEU:CD1	2.29	0.60
6:AF:6:HIS:O	6:AF:10:PHE:HB2	2.02	0.60
6:AF:84:ILE:HA	6:AF:87:LEU:CD1	2.31	0.60
7:AG:36:ARG:HG2	7:AG:38:TYR:OH	2.02	0.60
7:AG:7:PRO:HB2	7:AG:10:ARG:HB2	1.84	0.60
8:AH:41:VAL:HG11	8:AH:113:ALA:CA	2.32	0.60
11:AK:122:ARG:HA	11:AK:125:ARG:NH1	2.17	0.60
11:AK:69:ARG:HH11	11:AK:69:ARG:HG3	1.67	0.60
12:AL:106:ALA:C	12:AL:107:ARG:HG3	2.22	0.60
12:AL:50:LEU:HD11	12:AL:56:LEU:HA	1.84	0.60
14:AN:32:ILE:O	14:AN:39:PRO:HA	2.02	0.60
15:AO:104:VAL:O	15:AO:106:ASP:N	2.34	0.60
16:AP:110:ARG:NH1	16:AP:110:ARG:HB2	2.16	0.60
16:AP:92:HIS:N	16:AP:98:VAL:HG21	2.16	0.60
17:AQ:38:GLY:O	17:AQ:39:LEU:HD23	2.01	0.60
18:AR:76:GLU:HG3	18:AR:77:ARG:N	2.16	0.60
19:AS:43:LYS:HD2	19:AS:43:LYS:N	2.17	0.60
19:AS:4:ILE:CD1	19:AS:65:GLN:O	2.49	0.60
20:AT:67:LYS:O	20:AT:68:ARG:CB	2.50	0.60
21:AU:67:ALA:O	21:AU:68:LYS:C	2.40	0.60
23:AW:42:GLN:NE2	23:AW:42:GLN:CA	2.64	0.60
49:B1:19:LEU:CD2	49:B1:23:LYS:HE3	2.31	0.60
49:B1:27:LEU:HD11	49:B1:48:LEU:CB	2.32	0.60
53:B5:31:PRO:C	53:B5:32:ASN:HD22	2.05	0.60
53:B5:19:ARG:HH12	53:B5:43:CYS:HB2	1.63	0.60
25:BA:127:A:N6	54:B6:18:PHE:CE2	2.70	0.60
25:BA:126:A:OP2	54:B6:19:ARG:HB2	2.01	0.60
54:B6:27:GLY:O	54:B6:31:LEU:HG	2.02	0.60
25:BA:1180:C:O2'	25:BA:1181:C:O4'	2.09	0.60
25:BA:1189:A:N6	25:BA:1190:G:N3	2.50	0.60
25:BA:1303:G:H22	25:BA:1626:G:H1'	1.66	0.60
25:BA:1303:G:C8	25:BA:1304:C:C5	2.90	0.60
25:BA:1379:A:O2'	25:BA:1380:G:OP2	2.16	0.60
25:BA:1403:C:C2'	25:BA:1404:C:O5'	2.50	0.60
25:BA:1430:C:H2'	25:BA:1431:U:H6	1.66	0.60
25:BA:1475:G:O6	25:BA:1517:G:C6	2.55	0.60
25:BA:1619:G:H2'	25:BA:1620:G:C5'	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1952:A:H3'	25:BA:1952:A:C8	2.37	0.60
25:BA:1953:A:C8	25:BA:1953:A:H3'	2.37	0.60
25:BA:1977:A:H2	25:BA:1978:A:H1'	1.63	0.60
25:BA:1984:G:C2	25:BA:1985:G:C8	2.89	0.60
25:BA:1769:G:C6	25:BA:1984:G:C6	2.90	0.60
25:BA:2081:C:O2'	25:BA:2082:A:H5'	2.02	0.60
25:BA:2102:U:H2'	25:BA:2103:C:C6	2.36	0.60
25:BA:2378:A:H2'	25:BA:2378:A:N3	2.15	0.60
25:BA:411:G:N1	25:BA:2407:G:C6	2.70	0.60
25:BA:2472:G:C2	25:BA:2475:C:C2	2.89	0.60
25:BA:2493:U:H3'	25:BA:2493:U:C6	2.37	0.60
25:BA:2529:G:H5''	25:BA:2530:A:C5'	2.32	0.60
25:BA:2699:C:O2'	25:BA:2700:C:C5'	2.46	0.60
25:BA:2769:C:H2'	25:BA:2770:G:O5'	2.02	0.60
25:BA:2825:C:H42	25:BA:2826:A:H62	1.45	0.60
25:BA:2870:C:H2'	25:BA:2871:C:O4'	2.02	0.60
25:BA:323:G:OP2	25:BA:340:A:N1	2.34	0.60
25:BA:80:G:C1'	25:BA:347:A:H62	2.15	0.60
25:BA:528:A:H2'	25:BA:529:A:OP1	2.02	0.60
25:BA:562:U:O2'	25:BA:563:G:C5'	2.50	0.60
25:BA:564:C:C5	25:BA:565:C:H5	2.19	0.60
25:BA:685:A:N1	25:BA:774:A:C2	2.70	0.60
25:BA:914:C:C3'	25:BA:914:C:C6	2.83	0.60
25:BA:988:A:N1	25:BA:989:G:N2	2.49	0.60
25:BA:994:C:H5''	25:BA:995:C:OP1	2.01	0.60
27:BC:58:VAL:HG13	27:BC:201:PRO:HD3	1.83	0.60
27:BC:59:ARG:HH11	27:BC:59:ARG:CB	2.15	0.60
28:BD:176:ARG:HH22	28:BD:270:ILE:HD11	1.66	0.60
25:BA:1790:C:C4'	28:BD:213:ARG:NH1	2.62	0.60
28:BD:229:VAL:HG13	28:BD:230:ASP:CG	2.22	0.60
28:BD:232:PRO:CD	28:BD:247:ALA:HA	2.31	0.60
28:BD:247:ALA:O	28:BD:248:SER:C	2.39	0.60
29:BE:54:GLN:CG	29:BE:56:PRO:HD2	2.32	0.60
29:BE:64:LYS:C	29:BE:66:HIS:N	2.50	0.60
31:BG:102:PHE:O	31:BG:106:LEU:HB2	2.02	0.60
16:AP:3:ARG:NH1	31:BG:113:ARG:HB3	2.17	0.60
31:BG:173:LEU:HG	31:BG:173:LEU:O	2.02	0.60
32:BH:85:LYS:HZ2	32:BH:142:GLY:N	2.00	0.60
33:BK:28:ASN:C	33:BK:32:PRO:HD3	2.22	0.60
35:BM:33:LEU:HD13	35:BM:33:LEU:C	2.22	0.60
35:BM:76:SER:OG	35:BM:81:GLY:O	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:69:PHE:O	38:BP:95:ALA:HB2	2.02	0.60
42:BT:59:ARG:O	42:BT:60:LEU:C	2.40	0.60
44:BV:37:ARG:HB2	44:BV:38:TYR:CD1	2.37	0.60
44:BV:64:MET:HG3	44:BV:65:LEU:N	2.17	0.60
45:BW:32:PRO:O	45:BW:33:LYS:CB	2.49	0.60
45:BW:60:ARG:HD2	45:BW:62:LYS:HZ1	1.65	0.60
47:BY:24:LEU:HD22	47:BY:84:GLU:HA	1.83	0.60
48:BZ:51:VAL:CG2	48:BZ:80:HIS:HA	2.31	0.60
33:BK:136:VAL:HG23	33:BK:136:VAL:O	2.01	0.60
1:AA:1138:G:N7	1:AA:1140:C:O4'	2.34	0.59
1:AA:468:A:H1'	19:AS:82:GLN:NE2	2.17	0.59
1:AA:56:U:H2'	1:AA:57:G:H8	1.67	0.59
1:AA:688:G:N2	1:AA:689:C:H1'	2.17	0.59
5:AE:142:LEU:HD23	5:AE:142:LEU:O	2.02	0.59
5:AE:72:GLY:HA3	5:AE:165:VAL:HG11	1.84	0.59
5:AE:21:ARG:N	5:AE:21:ARG:CD	2.65	0.59
5:AE:226:ARG:HG3	5:AE:226:ARG:HH11	1.67	0.59
5:AE:75:LYS:HZ2	5:AE:75:LYS:HA	1.62	0.59
8:AH:118:ILE:HG22	8:AH:119:LEU:N	2.18	0.59
9:AI:50:TYR:CD2	9:AI:52:ILE:HG13	2.37	0.59
10:AJ:10:ARG:HB3	10:AJ:10:ARG:NH1	2.07	0.59
10:AJ:9:VAL:O	10:AJ:10:ARG:O	2.19	0.59
11:AK:116:LYS:HD2	11:AK:116:LYS:N	2.17	0.59
11:AK:47:GLY:O	11:AK:61:VAL:HA	2.01	0.59
12:AL:11:LYS:N	12:AL:104:ARG:NH2	2.50	0.59
13:AM:3:LYS:HE3	13:AM:77:PRO:HD3	1.81	0.59
14:AN:14:VAL:HG11	14:AN:35:PRO:HG2	1.84	0.59
14:AN:40:ILE:CD1	14:AN:40:ILE:N	2.61	0.59
16:AP:13:LYS:HB3	16:AP:17:VAL:CG1	2.32	0.59
17:AQ:42:ILE:HG13	17:AQ:43:CYS:N	2.16	0.59
18:AR:39:LEU:C	18:AR:39:LEU:CD2	2.69	0.59
19:AS:8:ARG:NH1	19:AS:11:SER:H	1.99	0.59
21:AU:21:LYS:HG3	21:AU:22:VAL:N	2.17	0.59
49:B1:59:LEU:HD11	49:B1:63:ARG:CD	2.33	0.59
49:B1:3:LYS:CE	49:B1:6:GLU:HG3	2.32	0.59
51:B3:52:THR:O	51:B3:53:GLU:CB	2.50	0.59
52:B4:56:LYS:HG3	52:B4:57:VAL:HG13	1.83	0.59
53:B5:31:PRO:O	53:B5:32:ASN:ND2	2.35	0.59
55:B7:30:ARG:CD	55:B7:44:LYS:HD2	2.32	0.59
56:B8:7:VAL:CG2	56:B8:34:GLN:HB3	2.32	0.59
25:BA:1011:G:C5'	25:BA:1012:U:OP2	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:70:G:H2'	25:BA:114:U:C5	2.36	0.59
25:BA:1203:G:O6	25:BA:1240:U:C6	2.54	0.59
25:BA:1225:C:OP2	43:BU:88:ARG:NH1	2.35	0.59
25:BA:1313:U:C2	25:BA:1314:C:C5	2.90	0.59
25:BA:1491:G:H2'	25:BA:1492:G:C4'	2.30	0.59
25:BA:1518:C:C4	25:BA:1519:G:C8	2.90	0.59
25:BA:1528:A:N7	25:BA:1529:A:N1	2.50	0.59
25:BA:14:A:C8	25:BA:15:G:C8	2.90	0.59
25:BA:1729:A:N7	25:BA:1731:G:C6	2.70	0.59
25:BA:1774:C:H5	25:BA:1775:U:C2	2.20	0.59
25:BA:1789:A:OP1	28:BD:222:ARG:HA	2.01	0.59
25:BA:2047:U:O2'	25:BA:2048:G:H5'	2.02	0.59
25:BA:204:A:OP1	25:BA:204:A:C8	2.55	0.59
25:BA:2147:G:C2	25:BA:2148:G:C4'	2.86	0.59
25:BA:2195:C:H2'	25:BA:2196:C:C4'	2.30	0.59
25:BA:919:G:H22	25:BA:2268:A:H5"	1.67	0.59
25:BA:2348:U:O4	25:BA:2382:G:N2	2.34	0.59
25:BA:2428:G:H4'	25:BA:2429:G:O5'	2.02	0.59
25:BA:245:G:OP2	37:BO:62:LEU:HD23	2.02	0.59
25:BA:2472:G:C2'	25:BA:2475:C:H42	2.15	0.59
25:BA:2474:C:H2'	25:BA:2475:C:H5'	1.84	0.59
25:BA:2500:U:O2'	25:BA:2504:U:C5	2.55	0.59
25:BA:2542:A:O2'	25:BA:2543:G:H5'	2.01	0.59
25:BA:2604:U:C2	25:BA:2605:U:C6	2.90	0.59
25:BA:2667:C:H2'	25:BA:2668:G:O4'	2.02	0.59
25:BA:2885:C:N3	25:BA:2886:G:H1'	2.17	0.59
25:BA:343:C:C2'	25:BA:344:G:C5'	2.67	0.59
25:BA:366:C:C5'	25:BA:403:U:H3	2.10	0.59
25:BA:584:C:O2'	25:BA:585:G:H5'	2.01	0.59
25:BA:643:A:O2'	25:BA:644:A:C8	2.54	0.59
25:BA:687:C:H4'	54:B6:4:THR:HG22	1.84	0.59
25:BA:687:C:H1'	25:BA:788:A:C5'	2.32	0.59
25:BA:857:C:H5"	25:BA:857:C:H6	1.67	0.59
25:BA:875:G:H2'	25:BA:876:C:C6	2.37	0.59
25:BA:882:G:H2'	25:BA:883:G:H8	1.67	0.59
25:BA:918:A:O2'	26:BB:80:U:H1'	2.02	0.59
25:BA:974:G:OP2	25:BA:974(A):C:OP2	2.20	0.59
25:BA:995:C:OP2	25:BA:995:C:H4'	2.00	0.59
26:BB:99:A:C2	26:BB:100:G:C4	2.89	0.59
26:BB:48:A:OP1	40:BR:92:TYR:CB	2.50	0.59
27:BC:117:PRO:HB2	27:BC:147:PHE:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:5:LYS:C	27:BC:7:TYR:H	2.04	0.59
28:BD:34:VAL:C	28:BD:36:PRO:HD2	2.22	0.59
28:BD:42:GLY:CA	28:BD:60:ARG:HH12	2.13	0.59
28:BD:5:LYS:HB3	28:BD:82:ILE:HB	1.83	0.59
29:BE:182:LEU:HD22	29:BE:184:VAL:CG1	2.32	0.59
29:BE:32:PRO:HG3	29:BE:87:GLU:O	2.02	0.59
32:BH:43:VAL:HG22	32:BH:51:ARG:O	2.02	0.59
33:BK:33:ARG:HB2	33:BK:35:LEU:CD2	2.30	0.59
35:BM:69:GLN:OE1	35:BM:87:LEU:HD13	2.02	0.59
36:BN:7:TYR:HA	36:BN:18:LYS:NZ	2.16	0.59
25:BA:2820:A:N3	39:BQ:5:LYS:HG3	2.17	0.59
40:BR:31:SER:O	40:BR:35:ILE:HB	2.02	0.59
40:BR:77:ALA:O	40:BR:78:LEU:C	2.39	0.59
43:BU:6:LYS:CE	43:BU:10:LYS:O	2.50	0.59
42:BT:94:ASN:ND2	43:BU:6:LYS:HE3	2.17	0.59
46:BX:32:PRO:O	46:BX:34:LYS:N	2.35	0.59
46:BX:56:PRO:O	46:BX:57:GLN:HG2	2.02	0.59
46:BX:8:LYS:NZ	46:BX:28:LYS:HG3	2.17	0.59
48:BZ:17:GLN:CD	48:BZ:17:GLN:H	2.04	0.59
25:BA:1065:U:C2	25:BA:1066:U:O4'	2.55	0.59
34:BL:19:PRO:CG	34:BL:22:PRO:HG2	2.32	0.59
25:BA:522:G:O2'	25:BA:523:C:H5'	2.01	0.59
11:AK:50:ARG:HH11	11:AK:50:ARG:HG2	1.66	0.59
1:AA:129(A):G:O2'	1:AA:130:A:OP2	2.17	0.59
1:AA:229:U:H2'	1:AA:230:G:H8	1.65	0.59
1:AA:254:G:C6	1:AA:273:A:C6	2.90	0.59
1:AA:412:A:C2	7:AG:35:ARG:CZ	2.85	0.59
1:AA:51:A:O2'	1:AA:52:G:P	2.59	0.59
1:AA:58:C:C2'	1:AA:59:A:H5'	2.32	0.59
1:AA:754:C:O2'	18:AR:69:TYR:HB2	2.02	0.59
1:AA:769:G:C2	1:AA:770:C:C6	2.90	0.59
2:AC:75:C:H41	25:BA:2451:A:C4'	2.04	0.59
5:AE:72:GLY:HA3	5:AE:165:VAL:CG1	2.32	0.59
5:AE:32:ILE:CG2	5:AE:32:ILE:O	2.50	0.59
6:AF:180:ALA:O	6:AF:203:PHE:CE1	2.54	0.59
8:AH:37:ARG:NH1	8:AH:112:LEU:HA	2.17	0.59
9:AI:26:ILE:O	9:AI:30:LEU:HD12	2.01	0.59
10:AJ:61:VAL:HG12	10:AJ:124:LEU:HD22	1.84	0.59
11:AK:122:ARG:O	11:AK:125:ARG:N	2.35	0.59
11:AK:126:LYS:NZ	11:AK:127:LEU:CD2	2.57	0.59
11:AK:63:LEU:HB2	11:AK:65:TYR:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:44:PHE:HA	11:AK:79:VAL:CG1	2.31	0.59
12:AL:78:LYS:HZ2	12:AL:101:PHE:HE2	1.49	0.59
15:AO:57:LYS:HG2	15:AO:67:THR:CG2	2.32	0.59
20:AT:45:HIS:ND1	20:AT:46:ASP:N	2.50	0.59
1:AA:986:A:O2'	22:AV:55:LYS:HG3	2.02	0.59
49:B1:1:MET:H2	49:B1:2:ARG:CZ	2.15	0.59
52:B4:49:CYS:O	52:B4:55:ARG:HG3	2.01	0.59
55:B7:42:ARG:HB3	55:B7:43:GLN:HE22	1.67	0.59
56:B8:11:CYS:O	56:B8:13:LYS:N	2.35	0.59
25:BA:1123:C:H2'	25:BA:1124:C:C6	2.37	0.59
25:BA:1164:G:C6	25:BA:1165:U:C4	2.90	0.59
25:BA:1322:A:H2'	25:BA:1323:U:C5'	2.31	0.59
25:BA:1391:U:N3	25:BA:1394:U:H5	1.99	0.59
25:BA:1625:C:N3	25:BA:1626:G:C8	2.65	0.59
25:BA:1647:G:C4'	25:BA:1648:C:OP1	2.50	0.59
25:BA:1680:U:H2'	25:BA:1681:G:C1'	2.31	0.59
25:BA:48:G:C2	25:BA:178:G:C6	2.90	0.59
25:BA:1944:U:C6	25:BA:1944:U:H3'	2.38	0.59
25:BA:1955:U:C2'	25:BA:1956:U:OP1	2.49	0.59
25:BA:1957:C:C2'	25:BA:1958:C:O5'	2.50	0.59
25:BA:676:A:H8	25:BA:2069:G:H21	1.50	0.59
25:BA:2266:A:OP2	25:BA:2267:A:C2	2.55	0.59
25:BA:2423:U:O2'	25:BA:2425:A:H3'	2.02	0.59
25:BA:2436:G:C2'	25:BA:2437:U:O5'	2.50	0.59
25:BA:2536:G:C5	25:BA:2537:U:C5	2.90	0.59
25:BA:2553:G:N2	25:BA:2554:U:C2	2.70	0.59
25:BA:2556:C:H2'	25:BA:2557:G:O4'	2.02	0.59
25:BA:273(D):C:O2'	25:BA:273(E):U:H5'	2.01	0.59
25:BA:273:G:C5	25:BA:273(A):G:N7	2.69	0.59
25:BA:360:G:O2'	25:BA:361:G:H5'	2.00	0.59
25:BA:411:G:N2	25:BA:2408:U:C2	2.69	0.59
25:BA:494:G:C2	25:BA:495:G:C8	2.90	0.59
25:BA:495:G:H5''	44:BV:4:LYS:HB2	1.83	0.59
25:BA:605:C:OP2	25:BA:605:C:C6	2.55	0.59
25:BA:744:G:N2	25:BA:754:C:C2	2.70	0.59
25:BA:775:G:H5''	25:BA:777:A:H1'	1.84	0.59
25:BA:806:C:C2	25:BA:807:U:C5	2.88	0.59
25:BA:835:A:C4'	25:BA:2358:G:H1'	2.32	0.59
25:BA:880:G:C2	25:BA:881:G:H1'	2.37	0.59
27:BC:103:ILE:HB	27:BC:127:LEU:HD21	1.84	0.59
27:BC:59:ARG:CG	27:BC:60:GLY:N	2.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:55:GLY:N	28:BD:219:PRO:HD2	2.16	0.59
28:BD:92:ILE:HA	28:BD:107:ALA:HB2	1.85	0.59
29:BE:5:LEU:HD11	29:BE:196:VAL:HG12	1.83	0.59
30:BF:44:ARG:HG3	30:BF:44:ARG:HH21	1.67	0.59
30:BF:80:ALA:HB1	30:BF:81:PRO:HD2	1.84	0.59
31:BG:177:GLY:O	31:BG:178:PHE:CB	2.48	0.59
31:BG:33:ARG:HD2	31:BG:33:ARG:C	2.22	0.59
32:BH:133:VAL:HG22	32:BH:134:SER:N	2.18	0.59
35:BM:47:ALA:O	35:BM:48:MET:HB2	2.01	0.59
35:BM:69:GLN:HE22	35:BM:70:LYS:NZ	2.00	0.59
37:BO:72:PRO:C	37:BO:111:ARG:CZ	2.71	0.59
37:BO:76:LYS:HG3	37:BO:101:VAL:HG11	1.84	0.59
38:BP:77:LYS:CB	38:BP:78:PRO:HD3	2.30	0.59
40:BR:106:ARG:NH1	40:BR:106:ARG:O	2.35	0.59
43:BU:17:GLY:CA	43:BU:19:LYS:NZ	2.60	0.59
43:BU:28:GLU:O	43:BU:30:GLY:N	2.35	0.59
25:BA:1266:G:C4	44:BV:15:ARG:NH1	2.70	0.59
47:BY:156:LYS:CE	47:BY:156:LYS:HA	2.32	0.59
48:BZ:72:ARG:HB2	48:BZ:78:TYR:CD1	2.37	0.59
33:BK:81:VAL:HG22	33:BK:144:VAL:CG2	2.14	0.59
1:AA:1061:G:O4'	13:AM:56:HIS:CE1	2.56	0.59
1:AA:1160:G:N3	1:AA:1160:G:H2'	2.17	0.59
1:AA:1180:A:C2'	1:AA:1181:G:C5'	2.80	0.59
1:AA:1222:G:C2	1:AA:1223:C:N3	2.69	0.59
1:AA:1263:C:C2	1:AA:1264:C:C5	2.91	0.59
1:AA:1323:G:N3	1:AA:1324:A:N7	2.50	0.59
1:AA:1390:U:N3	1:AA:1391:U:C4	2.70	0.59
1:AA:494:U:C2'	1:AA:494:U:O2	2.49	0.59
1:AA:600:C:O2'	1:AA:601:C:O4'	2.17	0.59
1:AA:881:G:H2'	1:AA:882:C:H6	1.67	0.59
5:AE:16:HIS:NE2	5:AE:214:ILE:HG12	2.17	0.59
5:AE:91:PRO:CG	5:AE:155:LEU:HD23	2.33	0.59
6:AF:153:VAL:HG21	6:AF:166:GLU:HB3	1.84	0.59
6:AF:91:LEU:CD2	6:AF:92:ALA:N	2.55	0.59
10:AJ:50:ILE:HA	10:AJ:54:THR:CG2	2.33	0.59
13:AM:75:ILE:HG22	13:AM:76:ASN:H	1.68	0.59
15:AO:59:ARG:HG3	15:AO:64:TYR:O	2.01	0.59
16:AP:32:GLU:HB2	16:AP:64:TRP:CH2	2.36	0.59
18:AR:48:LYS:HA	18:AR:50:HIS:CE1	2.37	0.59
19:AS:11:SER:OG	19:AS:14:ASN:ND2	2.34	0.59
20:AT:22:LEU:HD12	20:AT:40:LYS:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:36:ARG:HH22	22:AV:75:ALA:HB3	1.66	0.59
50:B2:6:VAL:O	50:B2:35:ARG:HG2	2.03	0.59
51:B3:42:PHE:HB3	51:B3:58:ARG:NH1	2.17	0.59
53:B5:20:ASN:HD21	53:B5:43:CYS:CA	2.16	0.59
53:B5:17:LYS:NZ	53:B5:48:VAL:HG22	2.15	0.59
55:B7:62:LEU:HB2	55:B7:63:PRO:HD3	1.83	0.59
25:BA:1000:A:C2	25:BA:1155:A:C4	2.90	0.59
25:BA:1227:A:C2'	25:BA:1228:G:H5''	2.33	0.59
25:BA:1265:A:C8	25:BA:1267:U:C4	2.90	0.59
25:BA:1395:A:H1'	25:BA:1397:U:H3	1.67	0.59
25:BA:1404:C:C2'	25:BA:1405:U:H5'	2.31	0.59
25:BA:1417:C:H2'	25:BA:1418:G:O5'	2.02	0.59
25:BA:1449:A:C2'	25:BA:1449(A):G:O5'	2.50	0.59
25:BA:1458:C:C5'	25:BA:1459:G:C8	2.85	0.59
25:BA:149:A:C8	25:BA:150:C:O4'	2.56	0.59
25:BA:1559:G:C8	25:BA:1559:G:H5''	2.37	0.59
25:BA:1625:C:C2	25:BA:1626:G:H8	2.20	0.59
25:BA:1704:G:C6	25:BA:1705:G:N7	2.70	0.59
25:BA:1784:A:C2'	25:BA:1785:A:C8	2.85	0.59
25:BA:1785:A:O3'	25:BA:1786:A:C8	2.56	0.59
25:BA:179:G:C5	25:BA:180:G:N7	2.70	0.59
25:BA:1972:A:N3	25:BA:1973:G:N7	2.50	0.59
25:BA:200:U:H3'	25:BA:201:C:H5'	1.85	0.59
25:BA:530:G:H1	25:BA:2022:U:P	2.26	0.59
25:BA:2074:U:N3	25:BA:2075:U:H5	1.99	0.59
25:BA:2325:G:C5	25:BA:2326:C:H5	2.20	0.59
25:BA:2330:G:H2'	25:BA:2331:G:O4'	2.01	0.59
25:BA:2355:C:N4	25:BA:2356:C:N4	2.50	0.59
25:BA:2639:A:C4	25:BA:2778:A:C2	2.90	0.59
25:BA:2754:U:O2'	25:BA:2756:U:OP2	2.18	0.59
25:BA:322:A:O2'	25:BA:340:A:C5	2.56	0.59
25:BA:3:U:H2'	25:BA:4:C:H6	1.67	0.59
25:BA:511:U:H5	25:BA:512:G:C4	2.19	0.59
25:BA:642:G:H8	25:BA:642:G:H3'	1.67	0.59
25:BA:657:U:C4	25:BA:658:C:N4	2.70	0.59
25:BA:752:A:O2'	25:BA:753:C:H6	1.85	0.59
25:BA:76:C:C2'	25:BA:77:C:H5'	2.29	0.59
25:BA:860:U:C5	25:BA:861:A:C8	2.90	0.59
25:BA:882:G:N2	25:BA:895:U:C2	2.70	0.59
25:BA:918:A:H8	26:BB:80:U:O2'	1.75	0.59
25:BA:997:G:C2	25:BA:998:C:C4	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BB:12:C:C4	48:BZ:74:ARG:O	2.56	0.59
26:BB:27:C:N4	26:BB:56:G:N1	2.49	0.59
27:BC:93:TYR:CE2	27:BC:109:ASP:O	2.55	0.59
29:BE:188:VAL:N	29:BE:189:PRO:CD	2.65	0.59
29:BE:49:LEU:CD1	29:BE:50:GLY:H	2.15	0.59
30:BF:78:ILE:HG12	30:BF:83:PHE:CZ	2.37	0.59
31:BG:14:GLU:OE2	31:BG:15:VAL:HA	2.01	0.59
32:BH:135:GLY:HA3	32:BH:141:VAL:CG2	2.32	0.59
32:BH:58:GLU:HG2	32:BH:59:ARG:N	2.17	0.59
32:BH:29:PRO:HD3	32:BH:79:VAL:C	2.23	0.59
32:BH:97:ARG:NE	32:BH:99:VAL:HG22	2.09	0.59
35:BM:35:ARG:HG2	35:BM:38:HIS:CB	2.33	0.59
36:BN:19:ILE:C	36:BN:19:ILE:CD1	2.70	0.59
36:BN:70:LYS:C	36:BN:72:PRO:HD2	2.23	0.59
36:BN:75:SER:O	41:BS:77:PRO:HD2	2.02	0.59
37:BO:58:THR:HG1	55:B7:13:ARG:HH12	1.49	0.59
38:BP:109:VAL:O	38:BP:113:GLN:OE1	2.20	0.59
38:BP:35:VAL:O	38:BP:35:VAL:HG13	2.01	0.59
39:BQ:33:ARG:HG3	39:BQ:113:LEU:HD11	1.83	0.59
40:BR:105:ALA:O	40:BR:108:GLY:N	2.35	0.59
41:BS:52:ILE:CA	41:BS:66:VAL:HG13	2.26	0.59
42:BT:99:ALA:HB2	42:BT:106:PHE:CD2	2.38	0.59
44:BV:2:GLU:HG2	44:BV:108:GLY:HA2	1.84	0.59
44:BV:50:VAL:HG21	44:BV:103:ILE:CG1	2.30	0.59
45:BW:35:THR:O	45:BW:38:GLU:HB3	2.01	0.59
47:BY:95:PRO:HG2	47:BY:131:ARG:HG2	1.84	0.59
47:BY:18:LEU:O	47:BY:19:ARG:C	2.40	0.59
48:BZ:59:LEU:HD22	48:BZ:79:VAL:HG21	1.84	0.59
34:BL:100:THR:O	34:BL:104:VAL:HG23	2.02	0.59
1:AA:1032(A):G:O2'	1:AA:1032(B):G:H5'	2.02	0.59
1:AA:1039:C:H2'	1:AA:1040:U:H6	1.67	0.59
1:AA:848:C:H2'	1:AA:849:C:H6	1.67	0.59
1:AA:111:G:OP2	1:AA:112:G:OP2	2.21	0.59
1:AA:121:C:C4'	1:AA:122:G:OP1	2.50	0.59
1:AA:47:C:C6	1:AA:365:U:H2'	2.38	0.59
1:AA:382:A:H2'	1:AA:383:A:O5'	2.03	0.59
1:AA:445:G:H2'	1:AA:446:G:H8	1.67	0.59
1:AA:454:C:H3'	1:AA:455:C:H6	1.67	0.59
1:AA:55:A:C2'	1:AA:56:U:H5'	2.31	0.59
1:AA:626:U:H2'	1:AA:627:G:C8	2.37	0.59
1:AA:769:G:N3	1:AA:770:C:C6	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:715:A:H4'	1:AA:777:A:N6	2.17	0.59
1:AA:784:C:H6	1:AA:784:C:H5'	1.65	0.59
1:AA:834:C:HO2'	1:AA:835:U:H5'	1.66	0.59
1:AA:854:G:C2	1:AA:855:G:C8	2.89	0.59
1:AA:859:A:C2'	1:AA:860:A:C5'	2.81	0.59
1:AA:572:A:C2	1:AA:864:A:N1	2.70	0.59
7:AG:121:VAL:O	7:AG:134:ASP:HA	2.02	0.59
7:AG:58:LEU:HA	7:AG:206:PHE:HE1	1.67	0.59
8:AH:37:ARG:HH22	8:AH:112:LEU:CD2	2.16	0.59
10:AJ:54:THR:O	10:AJ:56:GLN:N	2.34	0.59
1:AA:756:C:O4'	11:AK:1:MET:HE3	2.02	0.59
5:AE:178:ARG:O	11:AK:71:GLY:O	2.20	0.59
13:AM:49:VAL:C	13:AM:60:ARG:HG3	2.23	0.59
14:AN:79:SER:HA	14:AN:104:GLN:NE2	2.17	0.59
14:AN:78:GLN:O	14:AN:103:LEU:O	2.19	0.59
15:AO:46:LYS:HB3	15:AO:48:PRO:CD	2.32	0.59
16:AP:3:ARG:HD3	31:BG:140:ILE:CB	2.29	0.59
20:AT:6:LEU:O	20:AT:58:GLU:HB2	2.02	0.59
22:AV:5:LEU:HB2	22:AV:9:VAL:CG2	2.28	0.59
50:B2:20:LYS:O	50:B2:23:LEU:HB2	2.01	0.59
53:B5:45:LYS:O	53:B5:46:HIS:HB3	2.01	0.59
55:B7:14:VAL:O	55:B7:15:LYS:HD3	2.03	0.59
55:B7:40:GLU:O	55:B7:42:ARG:N	2.35	0.59
25:BA:1011:G:H2'	25:BA:1013:C:H5''	1.83	0.59
25:BA:1044:G:O2'	25:BA:1047:G:C2	2.56	0.59
25:BA:1171:G:H3'	25:BA:1173:G:H5''	1.85	0.59
25:BA:1365:A:H2'	25:BA:1366:A:C8	2.30	0.59
25:BA:1543:A:C5'	25:BA:1544:C:OP2	2.49	0.59
25:BA:1664:A:O3'	36:BN:66:LYS:HD3	2.01	0.59
25:BA:1835:G:N3	25:BA:1931:U:N3	2.47	0.59
25:BA:1912:A:H3'	25:BA:1913:A:H5''	1.83	0.59
25:BA:1931:U:H6	25:BA:1932:A:C8	2.20	0.59
25:BA:1996:C:C3'	25:BA:1996:C:C6	2.85	0.59
25:BA:2108:C:C4	25:BA:2109:U:C5	2.91	0.59
25:BA:2199:A:H2'	25:BA:2205:C:H5'	1.83	0.59
25:BA:2412:A:C8	25:BA:2413:G:C8	2.91	0.59
25:BA:2630:G:C5	25:BA:2894:G:O6	2.55	0.59
25:BA:2639:A:C1'	25:BA:2778:A:N1	2.65	0.59
25:BA:2701:C:C3'	25:BA:2702:U:H5''	2.17	0.59
25:BA:2714:G:C6	25:BA:2715:C:C5	2.90	0.59
25:BA:2742:C:N4	25:BA:2763:G:N2	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:296:C:O2'	25:BA:297:C:H5'	2.02	0.59
25:BA:493:G:N2	25:BA:494:G:C4	2.70	0.59
25:BA:562:U:O2'	25:BA:563:G:H5''	2.02	0.59
25:BA:691:C:N3	25:BA:692:C:C5	2.71	0.59
25:BA:748:G:C5'	25:BA:749:C:OP2	2.42	0.59
25:BA:786:C:C2'	25:BA:787:U:C5'	2.79	0.59
25:BA:858:U:H3'	25:BA:859:G:N3	2.18	0.59
25:BA:861:A:O5'	25:BA:861:A:H8	1.84	0.59
25:BA:947:G:O5'	25:BA:947:G:H8	1.85	0.59
25:BA:962:G:C2	25:BA:963:U:C2	2.90	0.59
25:BA:977:G:N1	25:BA:978:G:C2	2.71	0.59
26:BB:109:G:C6	26:BB:110:G:N7	2.70	0.59
27:BC:78:ALA:HA	27:BC:119:VAL:CG2	2.32	0.59
27:BC:22:ILE:HG23	27:BC:189:ILE:CD1	2.33	0.59
27:BC:29:VAL:HG21	27:BC:41:VAL:HG13	1.85	0.59
28:BD:111:LEU:HD12	28:BD:115:GLN:OE1	2.01	0.59
28:BD:56:GLY:O	28:BD:217:ARG:HA	2.03	0.59
29:BE:116:VAL:O	29:BE:117:MET:C	2.40	0.59
25:BA:2572:A:OP2	29:BE:144:ARG:HG3	2.02	0.59
25:BA:2572:A:N3	29:BE:144:ARG:NH2	2.51	0.59
31:BG:16:ARG:NH2	31:BG:16:ARG:HG3	2.16	0.59
32:BH:23:ARG:NH2	32:BH:36:PRO:N	2.51	0.59
32:BH:54:ARG:HH11	32:BH:57:ASP:HB2	1.68	0.59
32:BH:85:LYS:HB3	32:BH:133:VAL:HG12	1.84	0.59
35:BM:97:ARG:CA	35:BM:100:GLU:HB2	2.32	0.59
36:BN:67:LYS:N	36:BN:67:LYS:CE	2.59	0.59
36:BN:13:ASN:HA	36:BN:94:ARG:CZ	2.31	0.59
37:BO:97:PRO:N	37:BO:102:ARG:CZ	2.65	0.59
38:BP:102:VAL:O	38:BP:102:VAL:HG13	2.02	0.59
38:BP:132:VAL:CG1	38:BP:133:ARG:NH2	2.65	0.59
40:BR:62:LYS:O	40:BR:64:GLU:N	2.35	0.59
40:BR:64:GLU:C	40:BR:66:ALA:N	2.51	0.59
41:BS:26:ASP:OD2	41:BS:26:ASP:C	2.40	0.59
41:BS:53:ARG:HE	41:BS:102:ILE:HG13	1.68	0.59
41:BS:54:ARG:CA	41:BS:64:ARG:HB3	2.32	0.59
42:BT:85:LYS:HB3	42:BT:116:ALA:HB1	1.84	0.59
42:BT:15:LYS:HA	42:BT:18:LEU:HD11	1.83	0.59
42:BT:8:VAL:HA	42:BT:11:ARG:CD	2.30	0.59
43:BU:40:LEU:HD11	43:BU:55:ALA:CA	2.29	0.59
43:BU:78:LYS:NZ	43:BU:78:LYS:CB	2.62	0.59
25:BA:1325:G:H21	44:BV:86:LEU:HD11	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BW:13:LEU:CB	45:BW:96:ILE:HG12	2.26	0.59
46:BX:37:VAL:CG1	46:BX:39:VAL:HB	2.32	0.59
47:BY:119:GLU:O	47:BY:119:GLU:HG3	2.02	0.59
33:BK:91:SER:HB3	33:BK:121:LYS:HG2	1.84	0.59
33:BK:123:LEU:HD11	33:BK:145:VAL:HA	1.83	0.59
34:BL:18:THR:CA	34:BL:38:VAL:HG21	2.32	0.59
27:BC:71:GLN:CD	27:BC:72:VAL:HG23	2.22	0.59
1:AA:1284:C:C4	1:AA:1285:A:C5	2.90	0.59
1:AA:1346:A:C8	1:AA:1348:U:C2	2.90	0.59
1:AA:1472:U:H2'	1:AA:1473:A:C8	2.31	0.59
1:AA:1477:C:H2'	1:AA:1478:C:C6	2.37	0.59
1:AA:262:A:H5'	23:AW:74:LYS:CG	2.33	0.59
1:AA:302:G:N3	1:AA:556:C:H4'	2.18	0.59
1:AA:357:G:O2'	1:AA:358:U:H5'	2.01	0.59
1:AA:439:A:OP2	1:AA:493:G:N1	2.31	0.59
1:AA:495:A:H4'	1:AA:496:A:O5'	2.02	0.59
1:AA:540:G:O5'	1:AA:540:G:H8	1.84	0.59
1:AA:595:G:N7	1:AA:641:U:C2	2.71	0.59
1:AA:689:C:C5	1:AA:690:G:N7	2.70	0.59
1:AA:741:G:H2'	1:AA:742:G:H8	1.68	0.59
1:AA:876:G:O2'	11:AK:11:THR:HG21	2.03	0.59
2:AC:9:G:N2	2:AC:45:G:N7	2.50	0.59
5:AE:120:ALA:O	5:AE:121:LEU:C	2.40	0.59
5:AE:160:ASP:O	5:AE:161:ALA:HB2	2.02	0.59
5:AE:77:ALA:O	5:AE:80:ILE:N	2.36	0.59
5:AE:69:LEU:HD23	5:AE:91:PRO:HB2	1.85	0.59
6:AF:64:VAL:O	6:AF:99:VAL:HB	2.03	0.59
7:AG:154:ASN:H	7:AG:154:ASN:ND2	1.90	0.59
9:AI:76:ALA:C	9:AI:80:ARG:NE	2.55	0.59
10:AJ:105:VAL:HG12	10:AJ:109:ASN:HD21	1.66	0.59
10:AJ:111:ARG:NH1	10:AJ:111:ARG:HB3	2.17	0.59
10:AJ:49:ILE:HG22	10:AJ:125:MET:CE	2.32	0.59
10:AJ:20:ASP:OD1	10:AJ:23:VAL:HG23	2.01	0.59
10:AJ:40:ALA:HB1	10:AJ:44:TYR:HE1	1.66	0.59
12:AL:89:ASN:O	12:AL:91:ASP:N	2.33	0.59
14:AN:79:SER:CA	14:AN:104:GLN:HE21	2.16	0.59
14:AN:79:SER:HA	14:AN:104:GLN:HG3	1.83	0.59
16:AP:14:ARG:HD2	16:AP:16:ASP:OD2	2.01	0.59
19:AS:58:TYR:O	19:AS:61:SER:CB	2.51	0.59
51:B3:16:CYS:O	51:B3:33:VAL:HG12	2.02	0.59
51:B3:1:MET:O	51:B3:2:LYS:HD2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B5:9:LEU:CD2	53:B5:29:ASN:ND2	2.66	0.59
54:B6:11:LYS:HE3	54:B6:15:THR:HG21	1.84	0.59
25:BA:1419:A:H2'	25:BA:1420:U:C1'	2.33	0.59
25:BA:1477:A:H2'	25:BA:1478:G:O4'	2.02	0.59
25:BA:1491:G:N2	25:BA:1493:C:N4	2.48	0.59
25:BA:1467:C:N4	25:BA:1524:G:O6	2.35	0.59
25:BA:1693:U:C5'	25:BA:1694:C:OP2	2.50	0.59
25:BA:1882:C:H2'	25:BA:1883:G:C5'	2.32	0.59
25:BA:2051:A:OP2	25:BA:2051:A:H8	1.86	0.59
25:BA:2116:G:H5'	25:BA:2117:A:OP2	2.02	0.59
25:BA:2252:G:H2'	25:BA:2253:G:H8	1.67	0.59
25:BA:2389:G:H5''	25:BA:2390:U:H6	1.67	0.59
25:BA:2432:A:C8	25:BA:2433:A:N7	2.70	0.59
25:BA:2437:U:H2'	25:BA:2438:U:H6	1.66	0.59
25:BA:246:C:O2'	25:BA:385:C:H4'	2.02	0.59
25:BA:247:G:C2	25:BA:249:C:O2'	2.54	0.59
25:BA:2755:C:O3'	25:BA:2756:U:C6	2.53	0.59
25:BA:2776:A:C5	25:BA:2778:A:N7	2.70	0.59
25:BA:2795:G:H2'	25:BA:2795:G:N3	2.16	0.59
25:BA:2797:U:H5''	25:BA:2798:C:OP1	2.02	0.59
25:BA:442:G:H4'	25:BA:443:A:OP2	2.01	0.59
25:BA:482:A:N7	25:BA:506:G:C2	2.71	0.59
25:BA:556:G:C5	25:BA:557:U:C5	2.91	0.59
25:BA:574:C:H4'	25:BA:575:A:C5'	2.33	0.59
25:BA:583:G:C2'	25:BA:584:C:O5'	2.50	0.59
25:BA:624:C:H6	25:BA:624:C:H5''	1.67	0.59
25:BA:735:A:C3'	25:BA:735:A:C8	2.85	0.59
25:BA:805:G:N7	25:BA:2068:U:OP1	2.35	0.59
25:BA:80:G:N2	25:BA:81:G:H1'	2.18	0.59
25:BA:876:C:O5'	25:BA:876:C:H6	1.84	0.59
25:BA:861:A:C6	25:BA:917:A:C6	2.91	0.59
25:BA:93:C:C2	25:BA:94:G:C8	2.90	0.59
27:BC:131:LEU:HB3	27:BC:136:LEU:C	2.23	0.59
27:BC:87:GLU:HA	27:BC:91:ALA:HB3	1.84	0.59
25:BA:2219:G:N2	28:BD:262:ARG:HH21	1.90	0.59
29:BE:169:ASN:HD22	29:BE:170:LEU:H	1.50	0.59
30:BF:119:ARG:CZ	30:BF:119:ARG:HB2	2.31	0.59
31:BG:55:LYS:HD3	31:BG:147:ASP:O	2.03	0.59
31:BG:44:GLY:O	31:BG:72:ARG:O	2.20	0.59
32:BH:44:VAL:CG1	32:BH:51:ARG:HB3	2.33	0.59
33:BK:35:LEU:O	33:BK:36:ALA:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BK:9:LEU:HG	33:BK:17:GLN:HE22	1.67	0.59
35:BM:69:GLN:NE2	35:BM:69:GLN:O	2.35	0.59
35:BM:8:GLN:OE1	35:BM:9:VAL:N	2.34	0.59
38:BP:83:MET:CE	38:BP:83:MET:H	2.15	0.59
25:BA:1453:A:H62	39:BQ:63:ARG:HH21	1.50	0.59
41:BS:30:VAL:CG2	41:BS:32:TYR:CE2	2.64	0.59
41:BS:80:SER:HB3	41:BS:81:PRO:CD	2.31	0.59
41:BS:9:LEU:O	41:BS:10:VAL:C	2.40	0.59
44:BV:2:GLU:HB3	44:BV:107:LEU:O	2.03	0.59
44:BV:79:GLY:O	44:BV:80:PRO:O	2.21	0.59
45:BW:89:ILE:HG22	45:BW:92:LEU:HB2	1.83	0.59
46:BX:1:MET:CA	46:BX:33:LYS:HE3	2.33	0.59
34:BL:104:VAL:HG13	34:BL:127:ILE:CG2	2.32	0.59
1:AA:1001:G:C4	1:AA:1002:G:H1'	2.38	0.59
1:AA:750:G:H1'	18:AR:23:GLY:H	1.67	0.59
1:AA:1102:A:C2	1:AA:1103:C:C4	2.91	0.59
1:AA:1194:U:H2'	1:AA:1195:C:O4'	2.02	0.59
1:AA:1464:G:N3	1:AA:1465:C:H5	2.00	0.59
1:AA:152:A:C8	1:AA:152:A:C3'	2.85	0.59
1:AA:247:G:O2'	1:AA:248:C:H5'	2.03	0.59
1:AA:318:G:C2	1:AA:319:G:C8	2.90	0.59
1:AA:707:C:H2'	1:AA:708:C:H5'	1.82	0.59
1:AA:889:A:N3	1:AA:891:U:N3	2.51	0.59
1:AA:934:C:N4	1:AA:939:G:H1	2.01	0.59
1:AA:960:U:O2'	1:AA:961:U:OP1	2.19	0.59
2:AC:62:C:H2'	2:AC:63:G:O5'	2.03	0.59
5:AE:50:GLU:HG3	5:AE:200:ILE:O	2.03	0.59
7:AG:148:VAL:HG11	7:AG:158:ILE:CG2	2.33	0.59
7:AG:191:ARG:NH2	7:AG:194:LEU:HB2	2.15	0.59
7:AG:79:PHE:O	7:AG:82:ALA:HB3	2.02	0.59
10:AJ:103:TRP:CH2	10:AJ:138:LYS:HA	2.37	0.59
10:AJ:44:TYR:O	10:AJ:45:ASP:C	2.40	0.59
11:AK:112:LEU:CG	11:AK:114:THR:HG22	2.33	0.59
11:AK:49:GLU:OE1	11:AK:60:ARG:HB3	2.02	0.59
13:AM:15:THR:CG2	13:AM:16:LEU:HD22	2.31	0.59
14:AN:96:ARG:O	14:AN:100:ALA:CB	2.49	0.59
15:AO:37:CYS:CB	15:AO:58:VAL:HG22	2.31	0.59
16:AP:110:ARG:HB2	16:AP:110:ARG:HH11	1.66	0.59
1:AA:954:G:O3'	16:AP:120:LYS:HD2	2.02	0.59
16:AP:80:ARG:O	16:AP:84:ILE:HG12	2.03	0.59
1:AA:1048:G:H5''	17:AQ:3:ARG:HH11	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:24:ALA:O	22:AV:26:GLY:N	2.33	0.59
22:AV:39:THR:O	22:AV:40:ILE:O	2.20	0.59
49:B1:51:GLN:O	49:B1:54:ARG:HB2	2.02	0.59
53:B5:51:GLU:O	53:B5:52:VAL:C	2.39	0.59
54:B6:25:PRO:HB2	54:B6:29:LYS:HZ2	1.66	0.59
55:B7:15:LYS:O	55:B7:22:VAL:CA	2.46	0.59
25:BA:1157:G:H3'	25:BA:1157:G:OP2	2.03	0.59
25:BA:1275:A:N7	25:BA:1296:G:O4'	2.36	0.59
25:BA:1340:U:H2'	25:BA:1602:U:C6	2.37	0.59
25:BA:1358:G:O2'	25:BA:1373:A:N6	2.35	0.59
25:BA:14:A:C8	25:BA:15:G:N9	2.70	0.59
25:BA:1685:C:C2'	25:BA:1686:C:O5'	2.50	0.59
25:BA:177:G:O2'	25:BA:178:G:OP1	2.11	0.59
25:BA:1840:G:C2'	25:BA:1841:U:H5'	2.33	0.59
25:BA:196:A:N3	25:BA:2068:U:C5	2.71	0.59
25:BA:2114:A:H2'	25:BA:2115:G:C5'	2.32	0.59
25:BA:2243:U:O2	25:BA:2244:U:C6	2.56	0.59
25:BA:2415:G:C6	25:BA:2416:C:C4	2.91	0.59
25:BA:2415:G:C2	25:BA:2416:C:C6	2.90	0.59
25:BA:242:G:H3'	55:B7:4:MET:CG	2.31	0.59
25:BA:1128:A:N6	25:BA:2518:A:H62	1.99	0.59
25:BA:270(V):G:H5'	25:BA:270(W):G:OP2	2.02	0.59
25:BA:270(W):G:C4	25:BA:270(X):G:C8	2.90	0.59
25:BA:2723:C:C4	25:BA:2724:C:C5	2.90	0.59
25:BA:303:U:H2'	25:BA:304:G:O4'	2.02	0.59
25:BA:507:A:H5'	25:BA:509:C:O4'	2.01	0.59
25:BA:60:G:N2	25:BA:68:G:C2	2.70	0.59
25:BA:725:G:O2'	25:BA:726:G:H5'	2.02	0.59
25:BA:769:G:C2	25:BA:770:G:C8	2.90	0.59
25:BA:803:U:H6	25:BA:803:U:O5'	1.86	0.59
25:BA:805:G:H1'	25:BA:831:G:O2'	2.02	0.59
25:BA:896:A:N3	25:BA:896:A:H3'	2.17	0.59
26:BB:61:G:C2	26:BB:62:C:N3	2.71	0.59
27:BC:150:GLY:O	27:BC:154:ARG:HB2	2.02	0.59
27:BC:192:PHE:CE1	27:BC:196:LEU:HD22	2.37	0.59
28:BD:265:PRO:HA	28:BD:269:PHE:HZ	1.68	0.59
25:BA:2571:C:O2'	29:BE:146:THR:CG2	2.51	0.59
29:BE:51:PHE:CE1	29:BE:76:ARG:HB3	2.38	0.59
30:BF:123:LEU:HD11	30:BF:191:ARG:HD3	1.83	0.59
30:BF:170:LEU:HB3	30:BF:171:PRO:CD	2.31	0.59
30:BF:9:ILE:HG13	30:BF:122:LYS:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:111:LEU:CB	31:BG:112:PRO:CD	2.80	0.59
31:BG:132:ASN:O	31:BG:133:LEU:HB2	2.02	0.59
31:BG:60:LEU:C	31:BG:63:ILE:HG22	2.23	0.59
31:BG:94:LEU:HD13	31:BG:94:LEU:H	1.68	0.59
32:BH:28:GLY:HA3	32:BH:79:VAL:CB	2.26	0.59
32:BH:30:LYS:C	32:BH:30:LYS:HD3	2.23	0.59
37:BO:135:LEU:HA	37:BO:138:LEU:HD13	1.84	0.59
38:BP:109:VAL:CB	38:BP:114:ALA:HB2	2.33	0.59
38:BP:6:ARG:HH21	38:BP:8:LYS:CG	2.15	0.59
38:BP:99:PRO:O	38:BP:100:GLY:O	2.20	0.59
39:BQ:102:GLU:CG	39:BQ:103:ARG:N	2.64	0.59
40:BR:63:THR:HG22	40:BR:63:THR:O	2.02	0.59
40:BR:51:ALA:CA	40:BR:73:LEU:HG	2.33	0.59
41:BS:26:ASP:OD2	41:BS:26:ASP:O	2.21	0.59
42:BT:47:TYR:OH	43:BU:77:ALA:N	2.36	0.59
42:BT:65:ILE:HB	42:BT:76:TYR:CZ	2.35	0.59
42:BT:69:CYS:SG	42:BT:76:TYR:HE1	2.25	0.59
42:BT:93:LYS:CB	43:BU:10:LYS:HZ2	2.15	0.59
43:BU:5:VAL:N	43:BU:12:TYR:HD2	2.01	0.59
43:BU:66:ARG:NH2	43:BU:95:LEU:HD12	2.17	0.59
43:BU:78:LYS:HZ3	43:BU:78:LYS:HB3	1.67	0.59
44:BV:50:VAL:HG12	44:BV:105:VAL:HG12	1.84	0.59
45:BW:50:LYS:N	45:BW:50:LYS:CD	2.55	0.59
47:BY:116:VAL:CG2	47:BY:145:GLU:HG2	2.32	0.59
47:BY:24:LEU:HD11	47:BY:82:ARG:HD2	1.83	0.59
47:BY:91:LEU:HB2	47:BY:131:ARG:CD	2.31	0.59
48:BZ:21:LEU:HG	48:BZ:22:GLY:H	1.68	0.59
26:BB:12:C:P	48:BZ:74:ARG:CG	2.91	0.59
25:BA:1058:G:O2'	25:BA:1059:G:H5'	2.02	0.59
25:BA:1098:A:H1'	34:BL:30:HIS:CE1	2.36	0.59
34:BL:27:LEU:HD11	34:BL:57:ILE:HD11	1.84	0.59
34:BL:7:VAL:HG12	34:BL:58:THR:CG2	2.33	0.59
1:AA:1007:C:O2'	1:AA:1008:C:H5'	2.03	0.59
1:AA:386:C:O2'	1:AA:387:U:H5'	2.02	0.59
4:A1:21:A:N6	4:A1:22:A:C6	2.71	0.59
1:AA:1090:U:O2'	1:AA:1091:U:H5'	2.03	0.59
1:AA:1087:G:N2	1:AA:1099:G:C4	2.71	0.59
1:AA:1138:G:H5''	1:AA:1138:G:N3	2.17	0.59
1:AA:1344:C:O2'	1:AA:1349:A:H5'	2.02	0.59
1:AA:1315:U:O2'	1:AA:1360:A:C1'	2.51	0.59
1:AA:303:A:HO2'	1:AA:555:C:HO2'	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:394:G:C4	1:AA:395:C:C5	2.90	0.59
1:AA:465:A:C8	1:AA:467:G:C6	2.91	0.59
1:AA:474:G:H5'	19:AS:81:ARG:NH2	2.16	0.59
1:AA:483:C:H3'	1:AA:483:C:C6	2.37	0.59
1:AA:486:U:C2'	1:AA:486:U:O2	2.49	0.59
1:AA:570:G:H2'	1:AA:571:U:C6	2.37	0.59
1:AA:731:G:C2'	1:AA:732:C:H5'	2.32	0.59
1:AA:995:C:C2'	17:AQ:4:LYS:HE2	2.32	0.59
6:AF:30:ARG:NH1	6:AF:31:HIS:HB2	2.17	0.59
7:AG:101:LEU:HD12	7:AG:105:VAL:HG23	1.85	0.59
7:AG:20:TYR:C	7:AG:22:LYS:H	2.04	0.59
7:AG:93:PHE:O	7:AG:94:LEU:C	2.40	0.59
8:AH:91:LEU:HD21	8:AH:118:ILE:HG23	1.84	0.59
9:AI:2:ARG:HD2	9:AI:69:GLU:HB3	1.83	0.59
10:AJ:42:ILE:HA	10:AJ:45:ASP:OD2	2.03	0.59
11:AK:98:LYS:HZ2	11:AK:98:LYS:CA	2.16	0.59
13:AM:20:ALA:HB1	13:AM:37:PRO:HB3	1.85	0.59
14:AN:99:GLN:O	14:AN:102:GLY:N	2.36	0.59
14:AN:67:ASP:O	14:AN:68:ALA:C	2.41	0.59
14:AN:95:ILE:CA	14:AN:98:LEU:HD12	2.11	0.59
16:AP:3:ARG:HE	31:BG:113:ARG:HE	1.49	0.59
18:AR:36:ILE:HG13	18:AR:59:MET:HE1	1.85	0.59
18:AR:36:ILE:HA	18:AR:59:MET:CE	2.32	0.59
1:AA:390:C:H4'	19:AS:28:ARG:HE	1.68	0.59
20:AT:58:GLU:OE1	20:AT:75:ARG:N	2.35	0.59
21:AU:53:ARG:NH2	21:AU:60:GLY:N	2.50	0.59
1:AA:663:A:H5''	21:AU:61:LYS:HE3	1.85	0.59
1:AA:1268:A:C4'	24:AX:20:LYS:HB2	2.31	0.59
50:B2:26:LEU:CB	50:B2:28:LEU:HD21	2.32	0.59
51:B3:39:CYS:C	51:B3:40:HIS:HD1	2.05	0.59
52:B4:10:LYS:CE	52:B4:15:ARG:CZ	2.80	0.59
53:B5:52:VAL:HG12	53:B5:53:LYS:H	1.68	0.59
25:BA:1014:U:HO2'	25:BA:1015:G:H5'	1.67	0.59
25:BA:1107:G:C2'	25:BA:1108:U:H5'	2.33	0.59
25:BA:1131:G:OP1	35:BM:79:PRO:CG	2.49	0.59
25:BA:1570:A:C2	25:BA:1571:A:C8	2.91	0.59
25:BA:1608:A:C2'	25:BA:1610:A:OP1	2.49	0.59
25:BA:1678:G:O2'	25:BA:1679:U:H5'	2.03	0.59
25:BA:1802:A:N6	25:BA:1817:G:N2	2.40	0.59
25:BA:1906:G:H2'	25:BA:1907:G:H8	1.67	0.59
25:BA:1965:C:H3'	25:BA:1966:A:C8	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2013:A:H2'	25:BA:2014:A:O5'	2.03	0.59
25:BA:2262:U:H2'	25:BA:2263:C:H6	1.67	0.59
25:BA:2305:A:H62	31:BG:43:LEU:HD22	1.67	0.59
25:BA:2329:G:H2'	25:BA:2330:G:C8	2.38	0.59
25:BA:2320:A:H1'	25:BA:2333:A:C6	2.38	0.59
25:BA:2433:A:N6	51:B3:32:TYR:HD2	2.01	0.59
25:BA:2432:A:C5	25:BA:2433:A:N7	2.71	0.59
25:BA:2476:A:C8	25:BA:2477:C:C5	2.90	0.59
25:BA:2536:G:C2'	25:BA:2537:U:H5'	2.33	0.59
25:BA:2645:G:H3'	25:BA:2646:C:H5'	1.85	0.59
25:BA:2704:C:H2'	25:BA:2705:A:C1'	2.32	0.59
25:BA:271(B):G:H5''	25:BA:271(C):U:C4'	2.32	0.59
25:BA:2731:G:O2'	25:BA:2732:G:C5'	2.51	0.59
25:BA:278:A:N1	25:BA:363:G:C2	2.71	0.59
25:BA:2839:G:O2'	25:BA:2840:C:H5'	2.03	0.59
25:BA:39:C:H2'	25:BA:40:C:C6	2.37	0.59
25:BA:462:C:N4	25:BA:467:G:H1	2.01	0.59
25:BA:529:A:O2'	25:BA:530:G:C8	2.48	0.59
25:BA:531:C:C5'	25:BA:532:A:N3	2.65	0.59
25:BA:571:A:C6	25:BA:575:A:N7	2.71	0.59
25:BA:577:G:C5	25:BA:578:A:N7	2.70	0.59
25:BA:630:G:C2'	25:BA:631:A:O5'	2.49	0.59
25:BA:838:C:O2'	25:BA:839:U:H5'	2.02	0.59
26:BB:11:C:H3'	48:BZ:74:ARG:NH1	2.18	0.59
26:BB:77:U:H6	26:BB:77:U:H3'	1.68	0.59
27:BC:173:ALA:HB3	27:BC:192:PHE:CE2	2.38	0.59
28:BD:66:ASP:OD2	28:BD:103:ARG:NH1	2.35	0.59
28:BD:117:VAL:CG1	28:BD:128:GLY:C	2.70	0.59
28:BD:7:LYS:NZ	28:BD:91:ARG:CZ	2.65	0.59
25:BA:1675:C:N4	29:BE:129:HIS:NE2	2.50	0.59
29:BE:22:PRO:CA	29:BE:185:LYS:HA	2.05	0.59
30:BF:125:LEU:HD22	30:BF:127:GLU:O	2.02	0.59
31:BG:2:PRO:HA	31:BG:5:VAL:CG2	2.33	0.59
35:BM:39:ARG:CB	35:BM:48:MET:HG3	2.33	0.59
35:BM:7:LYS:HE2	35:BM:39:ARG:CZ	2.32	0.59
37:BO:113:LYS:HA	37:BO:129:ALA:O	2.03	0.59
25:BA:942:G:H5''	37:BO:32:THR:HG23	1.84	0.59
37:BO:79:ARG:O	37:BO:83:VAL:HG22	2.03	0.59
38:BP:75:THR:C	38:BP:77:LYS:HD2	2.23	0.59
39:BQ:57:ARG:NE	39:BQ:62:ALA:HB2	2.16	0.59
40:BR:18:ILE:HG22	40:BR:19:LYS:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:50:ILE:HG23	41:BS:68:TYR:HB2	1.81	0.59
41:BS:65:LYS:HG2	41:BS:75:ILE:CB	2.23	0.59
41:BS:32:TYR:CB	41:BS:87:ASP:O	2.47	0.59
42:BT:8:VAL:HG12	42:BT:12:ARG:HE	1.67	0.59
42:BT:15:LYS:HA	42:BT:18:LEU:CD1	2.32	0.59
42:BT:62:ILE:HG22	42:BT:66:ASN:ND2	2.15	0.59
43:BU:4:ILE:HG13	43:BU:13:ARG:HA	1.85	0.59
46:BX:74:PRO:HB2	46:BX:101:LYS:N	2.18	0.59
22:AV:30:LEU:CG	22:AV:50:ALA:HB2	2.33	0.59
1:AA:1067:A:O2'	1:AA:1068:G:O5'	2.20	0.59
1:AA:1169:A:C6	1:AA:1170:A:C2	2.91	0.59
1:AA:1196:U:C6	1:AA:1196:U:C3'	2.85	0.59
1:AA:1236:A:H4'	1:AA:1304:G:C5'	2.33	0.59
1:AA:1317:C:C2'	1:AA:1318:A:H5'	2.33	0.59
1:AA:1394:A:H62	1:AA:1501:C:C4'	2.15	0.59
1:AA:1507:A:C2	1:AA:1530:G:O4'	2.56	0.59
1:AA:230:G:N2	1:AA:231:G:N3	2.50	0.59
1:AA:394:G:C5	1:AA:395:C:C5	2.90	0.59
1:AA:44:G:O2'	1:AA:45:U:H5'	2.02	0.59
1:AA:563:A:O2'	1:AA:564:C:OP2	2.15	0.59
1:AA:724:G:C2	1:AA:725:G:C8	2.91	0.59
1:AA:812:C:H1'	1:AA:813:U:C5	2.38	0.59
1:AA:920:U:O2'	1:AA:921:U:C5'	2.49	0.59
1:AA:947:G:N3	1:AA:948:C:C6	2.71	0.59
1:AA:974:A:H5''	1:AA:975:A:OP1	2.01	0.59
2:AC:33:U:H2'	2:AC:35:A:OP2	2.02	0.59
6:AF:58:GLU:H	6:AF:65:ALA:HB3	1.68	0.59
8:AH:109:ILE:HG21	8:AH:135:THR:CG2	2.31	0.59
9:AI:14:LEU:CG	9:AI:19:LEU:HD12	2.33	0.59
10:AJ:28:ASN:HA	10:AJ:31:MET:HE2	1.85	0.59
12:AL:112:LYS:HG3	12:AL:117:HIS:CA	2.32	0.59
12:AL:16:ARG:C	12:AL:63:ILE:HG23	2.22	0.59
14:AN:33:THR:HA	14:AN:39:PRO:HA	1.84	0.59
1:AA:1188:A:H4'	17:AQ:58:LYS:NZ	2.17	0.59
18:AR:79:ARG:HB2	18:AR:79:ARG:HH11	1.64	0.59
22:AV:18:LYS:HD3	22:AV:31:ILE:HD12	1.84	0.59
22:AV:39:THR:HA	22:AV:70:LYS:HA	1.84	0.59
1:AA:1305:G:H5'	24:AX:4:GLY:HA3	1.85	0.59
49:B1:28:MET:HA	49:B1:31:ARG:HG3	1.84	0.59
50:B2:8:LEU:CD1	50:B2:31:LEU:O	2.51	0.59
50:B2:8:LEU:HD22	50:B2:9:VAL:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B4:10:LYS:CE	52:B4:15:ARG:NH1	2.62	0.59
53:B5:15:GLU:OE1	53:B5:21:TYR:HB3	2.02	0.59
54:B6:25:PRO:HG2	54:B6:26:GLY:H	1.67	0.59
55:B7:30:ARG:HA	55:B7:34:TRP:CD1	2.37	0.59
25:BA:1126:A:H5''	25:BA:1127:A:OP1	2.03	0.59
25:BA:1227:A:H3'	25:BA:1227:A:C8	2.37	0.59
25:BA:1239:G:O2'	25:BA:1240:U:H5'	2.03	0.59
25:BA:1398:C:C2	25:BA:1399:C:C5	2.91	0.59
25:BA:1602:U:C5	25:BA:1602:U:OP2	2.56	0.59
25:BA:151:C:N3	25:BA:175:G:O6	2.35	0.59
25:BA:1764:G:H2'	25:BA:1765:C:H6	1.67	0.59
25:BA:1803:A:H2	25:BA:1822:G:N3	2.01	0.59
25:BA:1918:A:N7	25:BA:1919:A:N6	2.51	0.59
25:BA:1918:A:H2'	25:BA:1919:A:N7	2.18	0.59
25:BA:2013:A:O2'	25:BA:2014:A:H5'	2.02	0.59
25:BA:2148:G:N3	25:BA:2149:G:C8	2.70	0.59
25:BA:2349:G:C2'	25:BA:2350:C:H5''	2.33	0.59
25:BA:2379:G:N2	25:BA:2380:C:C2	2.71	0.59
25:BA:2660:A:O2'	25:BA:2661:G:H5'	2.02	0.59
25:BA:2694:G:H2'	25:BA:2695:C:C5'	2.32	0.59
25:BA:270(Z):U:C2'	25:BA:270(Z):U:O2	2.49	0.59
25:BA:587:C:C2	25:BA:671:C:O4'	2.56	0.59
25:BA:674:G:H4'	30:BF:74:ARG:HH12	1.62	0.59
25:BA:685:A:C4	25:BA:774:A:C6	2.90	0.59
25:BA:857:C:O2'	48:BZ:23:VAL:HB	2.02	0.59
25:BA:871:U:O3'	38:BP:69:PHE:CZ	2.56	0.59
26:BB:29:A:H2'	26:BB:30:C:C6	2.37	0.59
26:BB:60:C:O2	26:BB:61:G:C8	2.56	0.59
27:BC:89:ALA:O	27:BC:157:LYS:HE2	2.03	0.59
28:BD:244:ARG:O	28:BD:252:TRP:CG	2.56	0.59
28:BD:6:PHE:CZ	28:BD:110:GLY:HA2	2.37	0.59
29:BE:197:ILE:N	29:BE:197:ILE:HD12	2.18	0.59
29:BE:4:ILE:O	29:BE:27:LEU:HD22	2.03	0.59
30:BF:157:VAL:CG1	30:BF:176:LEU:HD23	2.33	0.59
30:BF:64:ILE:HG21	30:BF:78:ILE:CB	2.32	0.59
31:BG:6:ALA:CA	31:BG:9:ARG:NH2	2.66	0.59
32:BH:126:PRO:HG3	32:BH:132:ARG:NH2	2.17	0.59
32:BH:91:GLY:N	32:BH:94:TYR:CD1	2.64	0.59
35:BM:25:ARG:HG3	35:BM:26:LEU:N	2.18	0.59
37:BO:92:GLU:OE2	37:BO:126:VAL:O	2.21	0.59
37:BO:137:LYS:CE	37:BO:137:LYS:HA	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:46:LYS:CB	37:BO:49:ARG:NH1	2.62	0.59
37:BO:46:LYS:NZ	37:BO:50:ARG:NH1	2.51	0.59
37:BO:65:ARG:NH2	37:BO:66:GLY:HA2	2.17	0.59
38:BP:61:GLY:O	38:BP:63:LYS:N	2.35	0.59
25:BA:2876:G:C4'	41:BS:1:MET:H2	2.15	0.59
42:BT:61:TRP:CZ3	42:BT:93:LYS:HA	2.38	0.59
42:BT:91:ASP:CG	43:BU:10:LYS:HD3	2.23	0.59
43:BU:1:MET:N	43:BU:45:THR:OG1	2.25	0.59
43:BU:80:GLN:HG2	43:BU:81:TYR:CD1	2.38	0.59
25:BA:1340:U:C6	45:BW:57:LEU:HD11	2.36	0.59
46:BX:13:VAL:HB	46:BX:73:ARG:NH1	2.15	0.59
46:BX:76:CYS:CB	46:BX:100:ALA:CB	2.81	0.59
46:BX:81:LYS:NZ	46:BX:96:ILE:HG12	2.17	0.59
47:BY:118:GLN:NE2	47:BY:119:GLU:O	2.36	0.59
47:BY:137:ILE:C	47:BY:138:GLU:HG3	2.22	0.59
25:BA:1093:G:N2	25:BA:1099:G:O6	2.35	0.59
7:AG:196:LEU:O	7:AG:196:LEU:CD1	2.50	0.59
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.18	0.59
1:AA:1452:C:O4'	1:AA:1453:G:N2	2.36	0.59
1:AA:1528:U:H1'	1:AA:1529:G:H21	1.68	0.59
1:AA:187:C:H3'	1:AA:188:U:C6	2.37	0.59
1:AA:192:U:H1'	23:AW:103:GLY:CA	2.27	0.59
1:AA:317:G:C2'	1:AA:318:G:O5'	2.50	0.59
1:AA:322:C:O2'	23:AW:23:ARG:HB2	2.03	0.59
1:AA:414:A:C4	1:AA:415:A:C8	2.90	0.59
1:AA:511:C:O2'	1:AA:512:U:H6	1.76	0.59
1:AA:691:G:O6	14:AN:55:LYS:HG3	2.01	0.59
1:AA:865:A:H5'	1:AA:1078:U:C4	2.38	0.59
1:AA:909:A:H2'	1:AA:910:C:H5'	1.84	0.59
1:AA:922:G:N2	1:AA:923:A:C4	2.71	0.59
1:AA:953:G:H1'	16:AP:125:ARG:C	2.23	0.59
2:AC:20:U:C3'	2:AC:20:U:O2	2.50	0.59
3:AD:33:U:H1'	3:AD:38:A:H61	1.68	0.59
5:AE:28:PHE:CE2	5:AE:190:THR:HA	2.38	0.59
6:AF:29:TYR:HD2	6:AF:29:TYR:O	1.85	0.59
6:AF:89:GLU:O	6:AF:91:LEU:N	2.36	0.59
7:AG:19:LEU:HA	7:AG:21:LEU:CD1	2.33	0.59
1:AA:8:A:H4'	8:AH:102:ALA:HA	1.83	0.59
8:AH:75:THR:HA	8:AH:118:ILE:HD11	1.84	0.59
1:AA:1081:G:OP2	8:AH:27:ARG:HD3	2.03	0.59
9:AI:52:ILE:HD13	9:AI:87:ARG:NE	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:23:ASN:HD22	12:AL:23:ASN:C	2.05	0.59
12:AL:89:ASN:ND2	12:AL:92:TYR:CE1	2.71	0.59
13:AM:99:LYS:HE2	13:AM:99:LYS:HA	1.84	0.59
16:AP:98:VAL:O	16:AP:98:VAL:HG12	2.03	0.59
19:AS:12:LYS:NZ	19:AS:13:HIS:H	2.01	0.59
20:AT:51:TYR:CD1	20:AT:51:TYR:N	2.70	0.59
9:AI:98:LEU:HG	21:AU:28:GLU:HG2	1.83	0.59
21:AU:80:PRO:CB	21:AU:83:GLU:HG2	2.32	0.59
49:B1:13:PRO:C	49:B1:15:GLU:H	2.03	0.59
49:B1:22:GLU:O	49:B1:25:ARG:HB2	2.02	0.59
49:B1:24:LYS:HG2	49:B1:52:ILE:HG21	1.84	0.59
25:BA:928:G:HO2'	50:B2:43:ILE:HD11	1.66	0.59
50:B2:5:LYS:CE	50:B2:57:GLU:HB2	2.33	0.59
25:BA:104:U:OP2	25:BA:105:C:C5	2.56	0.59
25:BA:1020:A:H1'	25:BA:1140:C:C2	2.37	0.59
25:BA:1353:A:N6	25:BA:1378:A:C4	2.71	0.59
25:BA:1491:G:H2'	25:BA:1492:G:C3'	2.32	0.59
25:BA:1657:C:O2'	25:BA:1658:C:C5'	2.50	0.59
25:BA:1664:A:N3	25:BA:1665:A:N6	2.50	0.59
25:BA:1769:G:C2	25:BA:1984:G:C4	2.90	0.59
25:BA:197:A:H2	25:BA:198:C:H1'	1.63	0.59
25:BA:2004:G:C5	25:BA:2005:A:C5	2.91	0.59
25:BA:2045:C:H2'	25:BA:2046:G:O4'	2.03	0.59
25:BA:2133:G:C6	25:BA:2157:G:H1'	2.37	0.59
25:BA:2150:U:C2	25:BA:2151:G:N7	2.70	0.59
25:BA:2275:C:H4'	25:BA:2276:G:O5'	2.01	0.59
25:BA:234:C:O2'	25:BA:235:U:H5'	2.02	0.59
3:AD:76:A:H61	25:BA:248:G:C1'	2.15	0.59
25:BA:248:G:N3	25:BA:2431:U:C4'	2.66	0.59
25:BA:270(C):C:O2'	25:BA:270(D):C:H5'	2.02	0.59
25:BA:2821:A:C2	25:BA:2822:G:C4	2.91	0.59
25:BA:2825:C:C4	25:BA:2826:A:N7	2.71	0.59
25:BA:2826:A:C5	25:BA:2827:C:C5	2.91	0.59
25:BA:295:G:H3'	25:BA:338:G:H22	1.68	0.59
25:BA:388:G:O2'	25:BA:390:A:N7	2.36	0.59
25:BA:565:C:OP2	43:BU:80:GLN:O	2.20	0.59
25:BA:635:C:H2'	25:BA:636:G:C5'	2.33	0.59
25:BA:654:A:H2'	25:BA:654:A:N3	2.16	0.59
25:BA:733:G:C8	25:BA:733:G:OP2	2.56	0.59
25:BA:786:C:H2'	25:BA:787:U:C5'	2.33	0.59
25:BA:827:U:C6	25:BA:2430:A:C2	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BB:101:A:H2'	26:BB:102:G:C8	2.36	0.59
27:BC:181:PRO:HD2	27:BC:184:LYS:HD2	1.84	0.59
27:BC:19:ILE:HG23	27:BC:223:ARG:CG	2.33	0.59
28:BD:117:VAL:HG21	28:BD:128:GLY:HA3	1.84	0.59
28:BD:178:PRO:O	28:BD:179:SER:C	2.39	0.59
28:BD:60:ARG:HB3	28:BD:62:TYR:CE2	2.38	0.59
28:BD:89:SER:OG	28:BD:159:ALA:N	2.36	0.59
29:BE:100:GLU:O	29:BE:172:VAL:CG1	2.43	0.59
29:BE:154:LYS:NZ	29:BE:156:MET:HB2	2.18	0.59
30:BF:52:LYS:NZ	30:BF:88:VAL:CG2	2.66	0.59
25:BA:588:U:C2	30:BF:90:PHE:CE2	2.90	0.59
31:BG:75:LYS:HD2	31:BG:87:PRO:CD	2.32	0.59
33:BK:3:VAL:O	33:BK:18:VAL:CA	2.50	0.59
35:BM:34:LEU:CD2	35:BM:120:LEU:HB2	2.33	0.59
35:BM:17:ASP:O	35:BM:18:ALA:CB	2.51	0.59
35:BM:67:LEU:HD22	35:BM:70:LYS:NZ	2.18	0.59
35:BM:88:GLU:C	35:BM:89:LYS:HE2	2.16	0.59
25:BA:1665:A:C4'	36:BN:1:MET:N	2.60	0.59
36:BN:24:VAL:HG23	36:BN:26:LYS:HG2	1.82	0.59
36:BN:52:VAL:HG22	36:BN:53:LYS:H	1.66	0.59
37:BO:57:THR:HG22	37:BO:58:THR:H	1.68	0.59
37:BO:7:ARG:CD	37:BO:8:PRO:HD3	2.32	0.59
38:BP:72:LYS:HB3	38:BP:73:PRO:CD	2.32	0.59
39:BQ:33:ARG:HE	52:B4:56:LYS:CE	2.16	0.59
26:BB:27:C:OP1	40:BR:33:LYS:HD3	2.03	0.59
41:BS:41:ARG:NE	41:BS:41:ARG:N	2.46	0.59
25:BA:1252:G:O2'	42:BT:33:ARG:CZ	2.50	0.59
42:BT:92:ARG:HG2	42:BT:93:LYS:CE	2.32	0.59
45:BW:47:PHE:O	45:BW:88:LYS:HE2	2.03	0.59
46:BX:98:VAL:N	46:BX:101:LYS:HE3	2.17	0.59
47:BY:96:VAL:CA	47:BY:128:VAL:HG13	2.30	0.59
48:BZ:32:ARG:NH1	48:BZ:32:ARG:CB	2.66	0.59
33:BK:109:ILE:HG21	33:BK:113:ARG:NE	2.17	0.59
47:BY:157:LEU:HD22	47:BY:161:VAL:CA	2.31	0.59
46:BX:86:ARG:O	46:BX:91:GLU:HG2	2.02	0.59
27:BC:68:LEU:HD21	27:BC:70:LYS:O	2.02	0.59
32:BH:110:SER:O	32:BH:112:PRO:HD2	2.03	0.59
11:AK:50:ARG:NH1	11:AK:50:ARG:HG2	2.16	0.59
25:BA:1630:G:C5	25:BA:1630(A):C:C5	2.91	0.59
1:AA:1129:C:C5'	1:AA:1130:A:OP1	2.42	0.59
1:AA:1129:C:C4	1:AA:1139:G:C6	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1187:G:H2'	1:AA:1188:A:C8	2.37	0.59
1:AA:1241:G:H2'	1:AA:1242:C:H6	1.66	0.59
1:AA:1126:U:H5'	1:AA:1281:U:O4'	2.02	0.59
1:AA:1490:C:OP2	1:AA:1490:C:C6	2.56	0.59
1:AA:926:G:C4	1:AA:1505:G:N2	2.71	0.59
1:AA:1528:U:HO2'	1:AA:1529:G:H3'	1.68	0.59
1:AA:519:C:C4	1:AA:520:A:C2	2.91	0.59
1:AA:57:G:C6	1:AA:58:C:N4	2.70	0.59
1:AA:607:A:N3	1:AA:608:A:H1'	2.18	0.59
1:AA:671:G:H2'	1:AA:672:U:C6	2.38	0.59
2:AC:9:G:H5'	2:AC:46:G:O2'	2.02	0.59
5:AE:213:LEU:HD22	5:AE:214:ILE:HD13	1.85	0.59
8:AH:18:ARG:HH21	8:AH:25:ARG:HB2	1.67	0.59
9:AI:38:GLU:HG2	9:AI:39:LYS:HG2	1.84	0.59
11:AK:38:ILE:HD11	11:AK:118:VAL:HG21	1.85	0.59
1:AA:1117:G:O5'	12:AL:104:ARG:NH1	2.36	0.59
12:AL:8:GLY:HA3	12:AL:76:ALA:O	2.03	0.59
1:AA:706:A:H4'	14:AN:22:HIS:CE1	2.38	0.59
14:AN:48:ILE:HD11	14:AN:64:ALA:CB	2.32	0.59
17:AQ:15:LYS:O	17:AQ:16:PHE:HB2	2.02	0.59
18:AR:36:ILE:HD12	18:AR:59:MET:SD	2.43	0.59
18:AR:36:ILE:HG23	18:AR:37:ASN:ND2	2.18	0.59
18:AR:39:LEU:O	18:AR:39:LEU:HD23	2.02	0.59
18:AR:74:ASP:OD1	18:AR:76:GLU:HB3	2.03	0.59
22:AV:78:ARG:O	22:AV:79:THR:OG1	2.18	0.59
23:AW:50:GLU:HG3	23:AW:54:LYS:CE	2.30	0.59
23:AW:51:GLU:HA	23:AW:54:LYS:HG3	1.85	0.59
49:B1:20:VAL:HB	49:B1:55:LEU:HD23	1.84	0.59
50:B2:37:LEU:HD21	50:B2:39:ASP:CA	2.32	0.59
50:B2:5:LYS:HZ2	50:B2:59:VAL:CG2	2.16	0.59
51:B3:17:GLY:HA2	51:B3:33:VAL:HG12	1.83	0.59
51:B3:5:ILE:HG13	51:B3:10:VAL:N	2.18	0.59
56:B8:20:HIS:N	56:B8:20:HIS:ND1	2.50	0.59
25:BA:1006:C:C2	25:BA:1007:C:C5	2.91	0.59
25:BA:1142(A):A:C6	25:BA:1143:A:C8	2.91	0.59
25:BA:1154:G:H8	25:BA:1154:G:O5'	1.85	0.59
25:BA:1155:A:O2'	25:BA:1156:A:O5'	2.20	0.59
25:BA:1161:C:H2'	25:BA:1162:G:O4'	2.03	0.59
25:BA:814:C:O3'	25:BA:1224:G:N2	2.36	0.59
25:BA:1518:C:C3'	25:BA:1519:G:H4'	2.33	0.59
25:BA:1559:G:N3	25:BA:1559:G:H2'	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1602:U:OP2	25:BA:1602:U:C4	2.56	0.59
25:BA:1688:U:C6	25:BA:1701:A:N6	2.70	0.59
25:BA:1754:C:H5	41:BS:98:LYS:HD3	1.67	0.59
25:BA:1681:G:C2	25:BA:1762:A:H3'	2.37	0.59
25:BA:1990:C:C4	25:BA:1991:U:O4	2.56	0.59
25:BA:1996:C:H2'	25:BA:1997:G:C5'	2.32	0.59
25:BA:2013:A:C8	25:BA:2014:A:N7	2.71	0.59
25:BA:2121:G:H2'	25:BA:2122:U:C6	2.37	0.59
25:BA:2309:A:N6	31:BG:80:PHE:CE1	2.67	0.59
25:BA:2392:A:H1'	37:BO:55:ARG:NH2	2.16	0.59
25:BA:2457:U:O4	25:BA:2458:G:N2	2.36	0.59
25:BA:2483:C:H2'	25:BA:2484:G:O4'	2.03	0.59
25:BA:2496:C:C5	25:BA:2497:A:C2	2.91	0.59
25:BA:2687:U:O2	25:BA:2687:U:C2'	2.50	0.59
25:BA:2832:U:O2	25:BA:2832:U:C2'	2.50	0.59
25:BA:2850:A:N3	25:BA:2851:A:N7	2.51	0.59
25:BA:2863:C:O2'	25:BA:2864:G:H5'	2.02	0.59
25:BA:322:A:C2	25:BA:341:G:C4	2.91	0.59
25:BA:411:G:N3	25:BA:2408:U:C4	2.71	0.59
25:BA:416:C:H3'	25:BA:416:C:C6	2.38	0.59
25:BA:417:C:H2'	25:BA:418:G:H8	1.68	0.59
25:BA:532:A:H61	25:BA:563:G:H5''	1.68	0.59
25:BA:638:G:H3'	25:BA:638:G:C8	2.38	0.59
25:BA:774:A:O2'	25:BA:775:G:C8	2.55	0.59
25:BA:782:A:H5''	25:BA:783:A:OP1	2.03	0.59
25:BA:917:A:N3	25:BA:918:A:N3	2.51	0.59
26:BB:81:G:C6	26:BB:96:G:C6	2.90	0.59
27:BC:161:ILE:CG2	27:BC:174:PRO:HG2	2.33	0.59
27:BC:163:PHE:CZ	27:BC:195:ALA:CB	2.85	0.59
27:BC:49:ILE:HG13	27:BC:50:ASP:N	2.18	0.59
28:BD:33:LEU:H	28:BD:33:LEU:CD2	1.99	0.59
29:BE:111:ARG:CB	29:BE:160:TYR:O	2.51	0.59
29:BE:8:LYS:NZ	29:BE:193:GLY:CA	2.65	0.59
30:BF:131:GLY:HA3	30:BF:134:GLY:CA	2.33	0.59
30:BF:164:ARG:O	30:BF:167:ALA:N	2.36	0.59
30:BF:121:GLY:O	30:BF:191:ARG:HB2	2.03	0.59
31:BG:153:ARG:O	31:BG:155:MET:HB2	2.03	0.59
31:BG:39:ILE:HA	31:BG:157:ILE:HG13	1.85	0.59
31:BG:54:GLU:OE1	31:BG:69:ALA:O	2.21	0.59
32:BH:159:GLU:HG2	32:BH:163:TYR:OH	2.02	0.59
32:BH:153:LYS:HG3	32:BH:162:ILE:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2641:G:H5'	35:BM:75:TYR:CG	2.38	0.59
37:BO:99:LEU:HD23	37:BO:100:LEU:N	2.16	0.59
38:BP:50:ALA:CB	38:BP:121:ALA:HB1	2.25	0.59
40:BR:105:ALA:O	40:BR:106:ARG:C	2.41	0.59
41:BS:30:VAL:O	41:BS:32:TYR:OH	2.20	0.59
41:BS:2:ASN:CG	41:BS:3:ARG:H	1.98	0.59
41:BS:54:ARG:CD	41:BS:55:ASN:H	2.12	0.59
41:BS:95:ARG:HB3	41:BS:96:ARG:HD2	1.85	0.59
43:BU:28:GLU:N	43:BU:29:PRO:HD2	2.18	0.59
45:BW:65:ARG:CG	45:BW:70:LEU:HD12	2.32	0.59
46:BX:67:LEU:HD11	46:BX:71:LYS:NZ	2.18	0.59
15:AO:126:LYS:N	15:AO:126:LYS:CE	2.60	0.59
15:AO:111:LYS:O	15:AO:112:ASP:CB	2.51	0.59
1:AA:953:G:C6	1:AA:1229:A:C6	2.91	0.58
1:AA:1261:A:C2	1:AA:1262:C:C2	2.90	0.58
1:AA:1296:C:H1'	1:AA:1302:U:C4	2.37	0.58
1:AA:1324:A:C2'	1:AA:1325:C:H5'	2.32	0.58
1:AA:1425:U:O2	1:AA:1476:G:C2	2.55	0.58
1:AA:198:G:H2'	1:AA:199:G:H8	1.68	0.58
1:AA:255:G:H1'	20:AT:16:GLN:NE2	2.16	0.58
1:AA:370:C:O2'	1:AA:371:G:C5'	2.50	0.58
1:AA:38:G:O2'	1:AA:39:G:H5''	2.03	0.58
1:AA:689:C:H2'	1:AA:690:G:O4'	2.03	0.58
1:AA:715:A:C4'	1:AA:777:A:N6	2.65	0.58
1:AA:667:G:N2	1:AA:740:U:H1'	2.18	0.58
2:AC:65:C:H2'	2:AC:66:C:H6	1.67	0.58
2:AC:72:A:O2'	2:AC:73:A:O4'	2.20	0.58
5:AE:153:ARG:HH12	5:AE:156:LYS:HB2	1.66	0.58
5:AE:28:PHE:CD1	5:AE:31:TYR:HB2	2.38	0.58
5:AE:97:TRP:NE1	5:AE:99:GLY:HA3	2.18	0.58
6:AF:130:VAL:O	6:AF:134:ILE:HD13	2.02	0.58
7:AG:190:ASP:O	7:AG:191:ARG:C	2.41	0.58
7:AG:22:LYS:HD3	7:AG:26:CYS:HB2	1.85	0.58
7:AG:88:VAL:HG12	7:AG:91:SER:H	1.66	0.58
8:AH:100:VAL:O	8:AH:107:ARG:NH2	2.35	0.58
8:AH:76:ILE:HD11	8:AH:139:LEU:CD2	2.32	0.58
8:AH:20:GLN:HB3	8:AH:25:ARG:HE	1.68	0.58
8:AH:57:LYS:HE3	8:AH:61:TYR:HE2	1.68	0.58
8:AH:84:PHE:HD2	8:AH:84:PHE:O	1.86	0.58
10:AJ:5:ARG:HG2	10:AJ:5:ARG:HH11	1.68	0.58
10:AJ:6:ARG:H	10:AJ:6:ARG:NH1	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:86:ILE:CG2	11:AK:133:LEU:HB2	2.30	0.58
11:AK:137:VAL:HG12	11:AK:138:TRP:N	2.18	0.58
11:AK:63:LEU:CG	11:AK:65:TYR:CE1	2.84	0.58
13:AM:57:LYS:O	13:AM:57:LYS:HG2	2.02	0.58
13:AM:34:VAL:HA	13:AM:74:ILE:HG12	1.85	0.58
14:AN:78:GLN:OE1	14:AN:79:SER:N	2.36	0.58
14:AN:91:ARG:CG	14:AN:95:ILE:HD11	2.33	0.58
18:AR:59:MET:O	18:AR:63:ARG:HG2	2.02	0.58
9:AI:62:TRP:HB2	21:AU:35:ARG:NH1	2.17	0.58
50:B2:10:LYS:HE2	50:B2:31:LEU:CD1	2.33	0.58
51:B3:17:GLY:HA2	51:B3:33:VAL:HB	1.85	0.58
51:B3:5:ILE:O	51:B3:6:HIS:HB2	2.01	0.58
52:B4:48:GLU:O	52:B4:50:GLY:N	2.36	0.58
53:B5:9:LEU:HD22	53:B5:27:LYS:HG3	1.85	0.58
54:B6:5:TRP:CH2	54:B6:12:ARG:NH1	2.71	0.58
55:B7:60:LEU:C	55:B7:60:LEU:HD23	2.24	0.58
25:BA:1186:G:H8	25:BA:1187:G:C8	2.20	0.58
25:BA:1350:C:O2'	25:BA:1351:C:H5'	2.02	0.58
25:BA:1359:A:H62	25:BA:1371:G:N2	2.00	0.58
25:BA:1542:G:C1'	25:BA:1543:A:C5	2.84	0.58
25:BA:1682:G:C5	25:BA:1757:U:H1'	2.38	0.58
25:BA:1765:C:H2'	25:BA:1766:U:C6	2.38	0.58
25:BA:1819:A:H3'	28:BD:179:SER:H	1.68	0.58
25:BA:1838:C:H2'	25:BA:1898:U:C4	2.38	0.58
25:BA:2191:G:H2'	25:BA:2192:G:O4'	2.03	0.58
25:BA:2206:C:N3	25:BA:2207:C:C5	2.70	0.58
25:BA:2219:G:N2	28:BD:262:ARG:HH22	1.98	0.58
25:BA:241:A:O4'	25:BA:241:A:OP1	2.20	0.58
25:BA:2491:U:H6	25:BA:2492:U:P	2.26	0.58
25:BA:2734:A:H61	25:BA:2770:G:H1'	1.68	0.58
25:BA:2629:A:N6	25:BA:2895:U:C2	2.71	0.58
25:BA:30:G:C2'	25:BA:31:C:O4'	2.50	0.58
25:BA:350:U:O2	25:BA:350:U:H2'	2.03	0.58
25:BA:411:G:C3'	25:BA:411:G:OP2	2.51	0.58
25:BA:481:G:O2'	25:BA:482:A:C8	2.55	0.58
25:BA:604:G:N1	25:BA:605:C:N4	2.51	0.58
25:BA:612:G:H2'	25:BA:615:G:C4	2.38	0.58
25:BA:612:G:H8	25:BA:612:G:OP2	1.85	0.58
25:BA:64:A:C2'	25:BA:65:C:H5'	2.33	0.58
25:BA:740:U:C6	25:BA:741:G:N7	2.71	0.58
25:BA:740:U:O2'	25:BA:741:G:C5'	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:785:G:H2'	25:BA:786:C:C6	2.37	0.58
25:BA:688:U:O2	25:BA:787:U:H4'	2.03	0.58
25:BA:932:G:C2	25:BA:933:A:C5	2.91	0.58
25:BA:972:G:N7	25:BA:973:A:C8	2.70	0.58
26:BB:14:U:C2'	26:BB:107:U:H1'	2.32	0.58
26:BB:62:C:C2	26:BB:63:G:C8	2.91	0.58
27:BC:110:PHE:CD1	27:BC:110:PHE:O	2.56	0.58
27:BC:64:LEU:CD1	27:BC:188:ASN:HD21	2.09	0.58
27:BC:58:VAL:HG12	27:BC:199:HIS:HB3	1.84	0.58
28:BD:147:LEU:C	28:BD:154:LYS:HD2	2.23	0.58
28:BD:250:TRP:HB3	28:BD:251:GLY:O	2.02	0.58
28:BD:63:ARG:HH12	28:BD:86:PRO:HD2	1.68	0.58
28:BD:71:ASP:O	28:BD:72:LYS:CB	2.51	0.58
29:BE:133:LYS:HE3	29:BE:138:PRO:HD2	1.83	0.58
30:BF:125:LEU:O	30:BF:127:GLU:N	2.36	0.58
30:BF:130:ALA:CB	30:BF:142:TRP:HE3	2.16	0.58
30:BF:154:VAL:C	30:BF:174:VAL:HG13	2.22	0.58
30:BF:6:VAL:HG12	30:BF:20:LEU:HD11	1.81	0.58
32:BH:7:LEU:N	32:BH:69:ARG:HE	2.01	0.58
32:BH:6:ARG:O	32:BH:69:ARG:HD2	2.03	0.58
35:BM:18:ALA:H	35:BM:21:LYS:HZ2	1.50	0.58
35:BM:24:GLY:O	35:BM:27:ALA:N	2.37	0.58
36:BN:47:ILE:CD1	36:BN:53:LYS:H	2.14	0.58
37:BO:33:ARG:O	37:BO:35:HIS:N	2.36	0.58
25:BA:672:C:C6	37:BO:38:GLN:OE1	2.56	0.58
37:BO:72:PRO:HB2	37:BO:111:ARG:HG2	1.81	0.58
25:BA:954:G:H5''	38:BP:17:LEU:HD22	1.83	0.58
38:BP:6:ARG:HG3	38:BP:70:PRO:HB3	1.85	0.58
40:BR:69:VAL:HG12	40:BR:73:LEU:CD2	2.31	0.58
41:BS:54:ARG:HD2	41:BS:55:ASN:N	2.16	0.58
42:BT:110:VAL:O	42:BT:111:GLU:C	2.41	0.58
25:BA:995:C:H1'	42:BT:57:PHE:CE2	2.38	0.58
44:BV:20:VAL:CG1	44:BV:47:VAL:HG21	2.32	0.58
45:BW:16:LYS:HD2	45:BW:17:ALA:N	2.18	0.58
45:BW:5:TYR:CB	49:B1:24:LYS:HD3	2.33	0.58
47:BY:141:VAL:O	47:BY:141:VAL:HG12	2.01	0.58
38:BP:59:ARG:HH12	47:BY:177:PRO:HB2	1.66	0.58
47:BY:57:ILE:HG23	47:BY:58:VAL:H	1.68	0.58
33:BK:86:THR:HG22	33:BK:87:LYS:H	1.68	0.58
25:BA:1069:A:C2	25:BA:1073:A:OP2	2.56	0.58
1:AA:1152:A:H5'	13:AM:13:HIS:NE2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1240:U:C2	10:AJ:32:ARG:NE	2.71	0.58
1:AA:1259:C:O5'	1:AA:1259:C:H6	1.87	0.58
1:AA:1263:C:H2'	1:AA:1264:C:C5	2.37	0.58
1:AA:1507:A:H2'	1:AA:1508:G:O4'	2.03	0.58
1:AA:1497:G:O2'	1:AA:1518:A:H2	1.87	0.58
1:AA:20:U:O4'	1:AA:572:A:C6	2.57	0.58
1:AA:38:G:N2	1:AA:397:A:C5'	2.64	0.58
1:AA:495:A:H5''	1:AA:496:A:OP1	2.03	0.58
1:AA:56:U:O4	1:AA:352:C:N3	2.36	0.58
1:AA:650:G:C2	1:AA:651:C:C6	2.90	0.58
1:AA:696:A:C2	1:AA:697:U:H1'	2.39	0.58
1:AA:739:C:H2'	1:AA:740:U:C5'	2.33	0.58
1:AA:782:A:C2	1:AA:801:U:O2	2.56	0.58
1:AA:854:G:C2	1:AA:855:G:N7	2.71	0.58
2:AC:57:A:C4'	31:BG:82:LEU:HD22	2.33	0.58
5:AE:132:LYS:H	5:AE:132:LYS:NZ	2.00	0.58
5:AE:17:PHE:CG	5:AE:18:GLY:N	2.71	0.58
6:AF:121:ALA:O	6:AF:124:ILE:HB	2.03	0.58
6:AF:91:LEU:HD23	6:AF:92:ALA:H	1.64	0.58
10:AJ:69:VAL:CB	10:AJ:104:LEU:HD21	2.33	0.58
10:AJ:121:ALA:O	10:AJ:122:HIS:C	2.42	0.58
10:AJ:22:LEU:O	10:AJ:25:ALA:HB3	2.02	0.58
10:AJ:83:ALA:HB3	10:AJ:85:TYR:CE2	2.38	0.58
11:AK:102:ARG:HH11	11:AK:102:ARG:CG	2.16	0.58
1:AA:1369:C:P	12:AL:111:ARG:HG3	2.43	0.58
1:AA:1372:U:OP2	12:AL:11:LYS:HE2	2.02	0.58
12:AL:47:LEU:CD1	12:AL:51:ARG:HH22	2.10	0.58
13:AM:50:ILE:CA	13:AM:60:ARG:HG3	2.32	0.58
14:AN:58:PRO:CB	14:AN:93:GLN:HG3	2.26	0.58
16:AP:58:GLU:C	16:AP:61:GLU:HB2	2.23	0.58
18:AR:59:MET:O	18:AR:63:ARG:HG3	2.04	0.58
20:AT:51:TYR:H	20:AT:51:TYR:HD1	1.50	0.58
1:AA:721:G:OP2	21:AU:63:GLN:HG2	2.03	0.58
14:AN:110:ASP:HB2	21:AU:88:LYS:HB2	1.85	0.58
51:B3:42:PHE:CG	51:B3:43:TYR:N	2.70	0.58
51:B3:58:ARG:HG3	51:B3:58:ARG:HH11	1.68	0.58
53:B5:25:LYS:HG3	55:B7:35:GLN:HG3	1.85	0.58
54:B6:43:THR:O	54:B6:46:VAL:N	2.36	0.58
25:BA:1471:A:C2	25:BA:1472:A:O2'	2.43	0.58
25:BA:1567:A:O2'	25:BA:1568:G:C6	2.55	0.58
25:BA:1594:G:C2'	25:BA:1595:G:H5'	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1698:A:HO2'	25:BA:1699:G:P	2.25	0.58
25:BA:1775:U:C2'	25:BA:1776:G:H5'	2.28	0.58
25:BA:1794:U:H2'	25:BA:1795:C:C6	2.35	0.58
25:BA:200:U:H3'	25:BA:201:C:C5'	2.34	0.58
25:BA:2075:U:O2	25:BA:2075:U:H2'	2.03	0.58
25:BA:2077:A:H1'	25:BA:2435:A:O4'	2.02	0.58
25:BA:2111:C:OP2	25:BA:2111:C:C6	2.54	0.58
25:BA:2228:G:C6	25:BA:2229:C:C2	2.91	0.58
25:BA:2239:G:H3'	25:BA:2240:C:C5'	2.12	0.58
25:BA:2285:C:H5	53:B5:27:LYS:NZ	2.00	0.58
25:BA:2387:U:O4'	48:BZ:41:ARG:CZ	2.51	0.58
25:BA:2432:A:N6	25:BA:2433:A:H62	2.01	0.58
25:BA:2468:G:N1	25:BA:2481:G:C4	2.71	0.58
25:BA:2637:U:H5'	29:BE:43:GLY:HA3	1.84	0.58
25:BA:2702:U:H6	25:BA:2702:U:H3'	1.67	0.58
25:BA:279:C:H2'	25:BA:280:C:C6	2.37	0.58
25:BA:2863:C:C2	25:BA:2864:G:C8	2.91	0.58
25:BA:296:C:C6	25:BA:338:G:N2	2.57	0.58
25:BA:388:G:N2	25:BA:390:A:C2	2.71	0.58
25:BA:422:A:N3	25:BA:422:A:C2'	2.59	0.58
25:BA:459:U:C2'	25:BA:460:A:H8	2.16	0.58
25:BA:465:G:H2'	25:BA:466:A:H8	1.64	0.58
25:BA:467:G:N2	25:BA:468:G:C1'	2.66	0.58
25:BA:573:G:H3'	25:BA:574:C:H5''	1.85	0.58
25:BA:602:G:H5'	25:BA:604:G:OP1	2.03	0.58
25:BA:641:C:H5	25:BA:642:G:C2	2.21	0.58
25:BA:685:A:N3	25:BA:688:U:N3	2.51	0.58
25:BA:687:C:H3'	25:BA:688:U:C6	2.37	0.58
25:BA:803:U:H2'	25:BA:804:A:H5'	1.82	0.58
26:BB:43:C:N3	26:BB:45:A:N7	2.52	0.58
28:BD:146:GLU:CA	28:BD:154:LYS:HG2	2.33	0.58
28:BD:232:PRO:HG2	28:BD:247:ALA:HA	1.76	0.58
29:BE:27:LEU:HD11	29:BE:30:PRO:HD3	1.86	0.58
30:BF:123:LEU:CD1	30:BF:191:ARG:HD3	2.32	0.58
30:BF:33:LEU:O	30:BF:37:VAL:HG23	2.04	0.58
31:BG:114:ILE:O	31:BG:114:ILE:HG23	2.03	0.58
25:BA:2304:G:C4'	31:BG:132:ASN:HD21	2.17	0.58
31:BG:49:ASP:N	31:BG:53:LEU:HD13	2.18	0.58
32:BH:119:GLU:C	32:BH:121:ILE:H	2.06	0.58
32:BH:84:SER:CA	32:BH:134:SER:HA	2.33	0.58
32:BH:83:TYR:CD2	32:BH:84:SER:N	2.71	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:103:VAL:CG2	35:BM:104:LYS:N	2.66	0.58
35:BM:115:ARG:HA	35:BM:118:LYS:HE3	1.85	0.58
38:BP:22:LYS:HZ2	38:BP:24:GLY:N	2.01	0.58
40:BR:87:PHE:CG	40:BR:88:ASP:N	2.70	0.58
41:BS:53:ARG:NE	41:BS:102:ILE:HG13	2.18	0.58
42:BT:110:VAL:HG12	42:BT:114:LYS:CE	2.33	0.58
43:BU:11:GLN:O	43:BU:21:ARG:NE	2.36	0.58
43:BU:5:VAL:CG1	43:BU:39:LEU:HA	2.33	0.58
25:BA:563:G:OP1	43:BU:80:GLN:OE1	2.21	0.58
44:BV:88:ARG:HB3	44:BV:92:ARG:NH1	2.14	0.58
45:BW:89:ILE:CA	45:BW:92:LEU:HD13	2.33	0.58
47:BY:10:ARG:N	47:BY:14:LYS:HZ2	1.99	0.58
48:BZ:21:LEU:HD11	48:BZ:41:ARG:N	2.18	0.58
33:BK:81:VAL:HG11	33:BK:88:ILE:HG12	1.82	0.58
25:BA:1080:C:O2'	34:BL:126:MET:HG2	2.04	0.58
25:BA:128:C:H2'	25:BA:129:C:C6	2.38	0.58
33:BK:85:GLU:CD	33:BK:85:GLU:N	2.57	0.58
1:AA:1285:A:H4'	1:AA:1286:A:C8	2.38	0.58
1:AA:1454:G:O2'	1:AA:1455:G:H5'	2.03	0.58
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.38	0.58
1:AA:297:G:H21	1:AA:299:G:C3'	2.05	0.58
1:AA:519:C:C2'	1:AA:520:A:H5'	2.25	0.58
1:AA:654:G:H1'	1:AA:753:A:C2	2.39	0.58
1:AA:891:U:H5	1:AA:906:G:N2	2.01	0.58
2:AC:5:G:C2'	2:AC:6:G:O5'	2.50	0.58
5:AE:115:LEU:HD13	5:AE:145:LEU:HB3	1.84	0.58
5:AE:90:MET:SD	5:AE:91:PRO:HD2	2.44	0.58
1:AA:1057:G:H5''	6:AF:154:SER:O	2.02	0.58
6:AF:88:ARG:HB2	6:AF:101:LEU:HB2	1.86	0.58
7:AG:117:ALA:O	7:AG:121:VAL:HG23	2.03	0.58
7:AG:148:VAL:HG21	7:AG:162:LEU:HD11	1.85	0.58
7:AG:19:LEU:HD22	7:AG:21:LEU:CD1	2.33	0.58
8:AH:37:ARG:CZ	8:AH:112:LEU:HD22	2.32	0.58
8:AH:79:GLU:HB3	8:AH:91:LEU:O	2.02	0.58
9:AI:11:ASN:HD21	9:AI:13:ASN:CB	2.16	0.58
9:AI:39:LYS:HB2	9:AI:62:TRP:CH2	2.39	0.58
10:AJ:150:ALA:HB1	14:AN:57:THR:HG1	1.67	0.58
10:AJ:6:ARG:HH11	10:AJ:6:ARG:HB2	1.65	0.58
11:AK:38:ILE:CD1	11:AK:118:VAL:HG11	2.33	0.58
11:AK:14:ARG:HA	11:AK:17:THR:OG1	2.03	0.58
12:AL:89:ASN:C	12:AL:91:ASP:N	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:79:SER:HA	14:AN:104:GLN:CB	2.32	0.58
14:AN:21:ILE:HD13	14:AN:95:ILE:HG23	1.83	0.58
16:AP:120:LYS:HG2	16:AP:121:LYS:H	1.68	0.58
16:AP:96:LEU:O	16:AP:98:VAL:N	2.35	0.58
19:AS:10:GLY:O	19:AS:11:SER:CB	2.50	0.58
1:AA:760:G:H21	20:AT:104:LYS:HB3	1.67	0.58
24:AX:3:LYS:HD2	24:AX:14:TRP:HB2	1.85	0.58
49:B1:1:MET:C	49:B1:3:LYS:H	2.06	0.58
50:B2:6:VAL:CG2	50:B2:35:ARG:NH2	2.65	0.58
51:B3:20:ASN:O	51:B3:30:GLU:OE1	2.21	0.58
51:B3:52:THR:O	51:B3:53:GLU:HB3	2.02	0.58
51:B3:58:ARG:CB	51:B3:62:ARG:NH2	2.65	0.58
53:B5:15:GLU:OE1	53:B5:20:ASN:O	2.22	0.58
55:B7:30:ARG:CZ	55:B7:44:LYS:CB	2.54	0.58
25:BA:1221:C:C2'	25:BA:1222:C:O5'	2.52	0.58
25:BA:1238:G:H21	25:BA:1239:G:H1'	1.67	0.58
25:BA:1308:A:C2	25:BA:1309:G:H1'	2.38	0.58
25:BA:1326:U:O2'	25:BA:1327:C:H5'	2.03	0.58
25:BA:146:G:H2'	25:BA:147:U:O4'	2.02	0.58
25:BA:1517:G:N2	25:BA:1518:C:C2	2.71	0.58
25:BA:1620:G:O2'	25:BA:1621:U:C5'	2.50	0.58
25:BA:1635:G:C5'	25:BA:1635:G:H8	2.15	0.58
25:BA:1651:G:C2	25:BA:1652:A:C5	2.91	0.58
25:BA:1668:A:N3	25:BA:1669:A:N1	2.51	0.58
25:BA:1697:G:H5'	25:BA:1698:A:H5'	1.85	0.58
25:BA:1725:G:N1	25:BA:1726:G:C8	2.71	0.58
25:BA:1746:G:O2'	25:BA:1747:G:O4'	2.19	0.58
25:BA:1784:A:H2'	25:BA:1981:A:C8	2.38	0.58
25:BA:1784:A:O2'	25:BA:1785:A:P	2.62	0.58
25:BA:1796:U:H2'	25:BA:1797:C:C6	2.37	0.58
25:BA:1814:G:C1'	28:BD:52:ARG:CZ	2.75	0.58
25:BA:1839:G:O6	25:BA:1927:A:C2	2.56	0.58
25:BA:1967:C:N4	25:BA:1968:G:H21	1.89	0.58
25:BA:2298:A:H8	25:BA:2298:A:O5'	1.86	0.58
25:BA:2313:C:H2'	25:BA:2314:C:C6	2.38	0.58
25:BA:2330:G:N2	25:BA:2385:C:H42	2.01	0.58
25:BA:2436:G:HO2'	25:BA:2437:U:P	2.26	0.58
25:BA:2712:U:OP1	25:BA:2714:G:H4'	2.04	0.58
25:BA:2774:C:C2	25:BA:2775:A:C8	2.92	0.58
25:BA:2797:U:OP1	25:BA:2797:U:O4'	2.22	0.58
25:BA:311:A:C6	25:BA:328:U:N3	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:539:G:C2	25:BA:540:G:C5	2.92	0.58
25:BA:565:C:HO2'	25:BA:1253:A:H2	1.42	0.58
25:BA:609(A):G:N7	25:BA:610:C:C5	2.72	0.58
25:BA:721:C:C2	25:BA:722:A:N7	2.71	0.58
25:BA:744:G:C2	25:BA:754:C:N3	2.72	0.58
25:BA:816:C:H2'	25:BA:817:C:C6	2.39	0.58
25:BA:859:G:H2'	25:BA:860:U:H5''	1.84	0.58
25:BA:911:A:H2	38:BP:13:GLN:CG	2.11	0.58
25:BA:910:A:O2'	25:BA:911:A:H5'	2.03	0.58
25:BA:954:G:H2'	25:BA:955:C:O4'	2.03	0.58
25:BA:973:A:O2'	25:BA:974:G:H5'	2.02	0.58
26:BB:18:G:O2'	26:BB:19:G:H5'	2.03	0.58
26:BB:47:C:H2'	26:BB:48:A:C5'	2.30	0.58
26:BB:82:G:C4	26:BB:83:G:C8	2.90	0.58
27:BC:192:PHE:CD1	27:BC:196:LEU:HD22	2.39	0.58
28:BD:28:GLU:N	28:BD:29:PRO:HD2	2.16	0.58
29:BE:55:ASN:O	29:BE:56:PRO:C	2.37	0.58
29:BE:8:LYS:HB3	29:BE:24:THR:HG21	1.84	0.58
30:BF:137:LYS:O	30:BF:137:LYS:NZ	2.36	0.58
25:BA:1204:A:H2	30:BF:187:VAL:O	1.86	0.58
31:BG:123:ASN:CB	31:BG:126:ASP:OD2	2.52	0.58
25:BA:2304:G:H21	31:BG:156:ASP:CG	2.07	0.58
31:BG:161:THR:HG1	31:BG:163:ALA:HB3	1.67	0.58
31:BG:162:THR:O	31:BG:164:GLU:N	2.28	0.58
31:BG:18:GLU:CD	31:BG:18:GLU:C	2.62	0.58
35:BM:109:LYS:C	35:BM:109:LYS:HE2	2.24	0.58
35:BM:62:VAL:HG12	35:BM:65:LYS:HB2	1.85	0.58
37:BO:113:LYS:HZ2	37:BO:115:LEU:HD12	1.67	0.58
40:BR:24:LEU:HA	40:BR:41:ASP:HA	1.85	0.58
41:BS:21:GLU:OE1	41:BS:21:GLU:O	2.21	0.58
41:BS:54:ARG:C	41:BS:64:ARG:CB	2.71	0.58
42:BT:53:ARG:O	42:BT:56:ASP:CB	2.48	0.58
43:BU:78:LYS:HZ3	43:BU:78:LYS:CB	2.15	0.58
43:BU:65:GLY:N	43:BU:97:LYS:NZ	2.50	0.58
46:BX:59:GLY:O	46:BX:61:ILE:HD13	2.04	0.58
47:BY:19:ARG:HH21	47:BY:84:GLU:CB	2.13	0.58
34:BL:23:VAL:HG13	34:BL:27:LEU:CD1	2.18	0.58
32:BH:20:ALA:HB1	32:BH:21:PRO:CD	2.34	0.58
1:AA:1503:A:N1	4:A1:13:A:O2'	2.36	0.58
1:AA:1095:U:H5'	1:AA:1109:C:O2	2.03	0.58
1:AA:1148:U:O2	1:AA:1149:C:C1'	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1169:A:O5'	1:AA:1169:A:H8	1.86	0.58
1:AA:1221:G:OP1	1:AA:1320:C:N4	2.36	0.58
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.03	0.58
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.67	0.58
1:AA:1387:G:H2'	1:AA:1388:C:H6	1.67	0.58
1:AA:1423:G:O2'	1:AA:1424:C:H5'	2.02	0.58
1:AA:250:A:O4'	1:AA:252:U:C5	2.56	0.58
1:AA:383:A:H2'	1:AA:384:G:C4'	2.32	0.58
1:AA:405:U:H3'	1:AA:406:G:H5'	1.84	0.58
1:AA:618:C:H3'	1:AA:620:C:OP2	2.02	0.58
1:AA:61:G:N2	1:AA:379:C:H4'	2.18	0.58
1:AA:660:G:H2'	1:AA:661:G:H8	1.66	0.58
1:AA:664:G:H5'	21:AU:64:ARG:NH2	2.14	0.58
1:AA:939:G:H5''	10:AJ:102:ARG:NH2	2.18	0.58
5:AE:163:PHE:CA	5:AE:185:ILE:HG13	2.33	0.58
5:AE:212:GLN:O	5:AE:213:LEU:C	2.42	0.58
6:AF:192:THR:O	6:AF:192:THR:CG2	2.51	0.58
6:AF:85:ARG:NH2	6:AF:89:GLU:HB2	2.15	0.58
7:AG:107:ARG:HB3	7:AG:174:LEU:HD11	1.85	0.58
7:AG:38:TYR:HB2	7:AG:39:PRO:HD2	1.84	0.58
7:AG:64:LEU:CD1	7:AG:75:PHE:HZ	2.16	0.58
8:AH:122:GLU:CB	8:AH:126:ARG:HG3	2.34	0.58
9:AI:3:ARG:HG3	9:AI:65:VAL:C	2.23	0.58
9:AI:33:TYR:CG	9:AI:75:LEU:HB2	2.37	0.58
10:AJ:74:GLU:HG2	10:AJ:75:VAL:H	1.67	0.58
1:AA:755:G:O2'	11:AK:1:MET:CE	2.51	0.58
11:AK:4:ASP:O	11:AK:5:PRO:C	2.42	0.58
1:AA:1226:C:N4	16:AP:104:ARG:HG3	2.19	0.58
16:AP:70:LEU:HD23	16:AP:70:LEU:C	2.23	0.58
21:AU:34:TYR:CD1	21:AU:35:ARG:N	2.71	0.58
50:B2:6:VAL:HG21	50:B2:35:ARG:CZ	2.34	0.58
25:BA:1024:G:OP2	25:BA:1025:G:H3'	2.03	0.58
25:BA:999:U:O2	25:BA:1157:G:N2	2.37	0.58
25:BA:1242:A:H3'	25:BA:1243:G:C8	2.32	0.58
25:BA:1507:A:OP1	25:BA:1508:A:C2	2.56	0.58
25:BA:1585:C:C5'	25:BA:1586:A:OP1	2.51	0.58
25:BA:1596:A:C6	25:BA:1597:A:C5	2.91	0.58
25:BA:1303:G:N1	25:BA:1626:G:C8	2.69	0.58
25:BA:1657:C:H2'	25:BA:1658:C:C6	2.31	0.58
25:BA:1765:C:H2'	25:BA:1766:U:H6	1.69	0.58
25:BA:118:A:H1'	25:BA:178:G:O4'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1798:U:H5'	28:BD:257:LEU:CD1	2.32	0.58
25:BA:1814:G:C1'	28:BD:52:ARG:NH1	2.65	0.58
25:BA:1908:C:N4	25:BA:1923:U:H3	2.01	0.58
25:BA:1993:U:C5	25:BA:1994:C:C5	2.88	0.58
25:BA:2083:G:C2	25:BA:2084:C:C2	2.90	0.58
25:BA:215:G:H4'	25:BA:216:A:C5'	2.33	0.58
25:BA:2639:A:H2'	25:BA:2640:G:H5'	1.84	0.58
25:BA:263:C:N3	25:BA:264:C:C6	2.72	0.58
25:BA:2675:A:H2'	25:BA:2676:C:C5'	2.33	0.58
25:BA:2698:U:N3	25:BA:2699:C:N4	2.51	0.58
25:BA:2712:U:O2'	25:BA:2712(A):A:C5'	2.51	0.58
25:BA:2826:A:H2'	25:BA:2827:C:C5'	2.34	0.58
25:BA:296:C:C2'	25:BA:297:C:H6	2.08	0.58
25:BA:336:C:C2'	25:BA:337:C:C5'	2.78	0.58
25:BA:295:G:C3'	25:BA:338:G:H22	2.16	0.58
25:BA:341:G:OP2	25:BA:342:G:OP1	2.21	0.58
25:BA:374:A:C6	25:BA:401:A:C8	2.91	0.58
25:BA:628:G:N1	25:BA:629:G:C6	2.71	0.58
25:BA:642:G:H3'	25:BA:642:G:C8	2.39	0.58
25:BA:66:C:H2'	25:BA:67:U:O5'	2.03	0.58
26:BB:10:C:C4	26:BB:11:C:C5	2.91	0.58
26:BB:28:C:OP2	40:BR:33:LYS:HB3	2.04	0.58
27:BC:19:ILE:CG2	27:BC:223:ARG:HG2	2.33	0.58
28:BD:142:VAL:CB	28:BD:192:THR:O	2.51	0.58
28:BD:202:LYS:N	28:BD:202:LYS:CD	2.65	0.58
28:BD:40:THR:CG2	28:BD:43:ARG:NH2	2.66	0.58
28:BD:57:GLY:O	28:BD:58:HIS:HB2	2.02	0.58
25:BA:2682:U:C2	29:BE:21:VAL:HG21	2.38	0.58
29:BE:23:VAL:HG11	29:BE:188:VAL:HG22	1.85	0.58
29:BE:45:THR:HG21	29:BE:81:ILE:CA	2.27	0.58
31:BG:123:ASN:HB3	31:BG:126:ASP:CB	2.34	0.58
31:BG:123:ASN:HB3	31:BG:126:ASP:CG	2.24	0.58
31:BG:38:VAL:HA	31:BG:92:VAL:O	2.02	0.58
31:BG:83:ARG:C	31:BG:84:LYS:HG3	2.24	0.58
31:BG:91:ARG:C	31:BG:91:ARG:CD	2.72	0.58
32:BH:13:LYS:CE	32:BH:80:SER:HA	2.28	0.58
33:BK:29:TYR:HB2	33:BK:30:LEU:HD22	1.86	0.58
38:BP:36:ALA:HB3	38:BP:101:ARG:H	1.66	0.58
38:BP:43:THR:O	38:BP:47:ILE:HG13	2.03	0.58
40:BR:23:ARG:HE	40:BR:42:ASP:H	1.51	0.58
40:BR:67:ARG:HD3	40:BR:103:GLU:CB	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:54:ARG:HG2	41:BS:100:TYR:CB	2.30	0.58
36:BN:121:VAL:C	41:BS:70:VAL:O	2.42	0.58
42:BT:108:GLU:O	42:BT:110:VAL:N	2.36	0.58
42:BT:13:LYS:CD	42:BT:13:LYS:N	2.62	0.58
25:BA:1154:G:OP2	42:BT:58:ARG:NE	2.36	0.58
43:BU:25:LEU:HD23	43:BU:94:LEU:HD12	1.84	0.58
43:BU:40:LEU:CD2	43:BU:55:ALA:HB2	2.10	0.58
44:BV:90:ARG:HH22	44:BV:90:ARG:H	1.49	0.58
47:BY:149:SER:CB	47:BY:173:ALA:HB2	2.33	0.58
25:BA:1053:C:H2'	25:BA:1054:A:H8	1.69	0.58
34:BL:108:ALA:HB1	34:BL:123:ALA:HB1	1.84	0.58
34:BL:55:VAL:HG12	34:BL:57:ILE:HG23	1.86	0.58
1:AA:82:U:H2'	1:AA:85:U:H5	1.67	0.58
25:BA:2294:C:O2'	25:BA:2295:C:H5'	2.02	0.58
1:AA:1085:U:H5'	1:AA:1094:G:H21	1.69	0.58
1:AA:1495:U:C2'	1:AA:1496:C:O5'	2.51	0.58
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.39	0.58
1:AA:760:G:H2'	20:AT:103:GLY:HA3	1.84	0.58
1:AA:828:A:O2'	1:AA:829:G:O5'	2.09	0.58
1:AA:867:G:O2'	1:AA:873:A:N6	2.37	0.58
5:AE:136:VAL:CA	5:AE:139:LYS:NZ	2.63	0.58
5:AE:222:ILE:HD12	5:AE:223:ILE:N	2.17	0.58
5:AE:68:ILE:HA	5:AE:161:ALA:O	2.03	0.58
6:AF:142:MET:HG3	6:AF:143:GLU:N	2.18	0.58
6:AF:63:ASN:O	6:AF:64:VAL:HB	2.04	0.58
7:AG:106:TYR:HE1	7:AG:112:VAL:HA	1.69	0.58
7:AG:199:ASN:OD1	7:AG:200:GLU:N	2.29	0.58
8:AH:69:VAL:O	8:AH:69:VAL:HG12	2.03	0.58
9:AI:2:ARG:NH1	9:AI:69:GLU:HB3	2.18	0.58
9:AI:3:ARG:HG3	9:AI:65:VAL:O	2.04	0.58
11:AK:95:VAL:CG2	11:AK:133:LEU:HD21	2.31	0.58
12:AL:38:GLN:O	12:AL:40:LEU:N	2.37	0.58
12:AL:51:ARG:NH1	12:AL:51:ARG:CA	2.66	0.58
14:AN:48:ILE:HB	14:AN:50:TYR:HB2	1.86	0.58
1:AA:1321:C:O4'	16:AP:87:TYR:HE1	1.86	0.58
16:AP:90:LEU:HA	16:AP:93:ARG:CB	2.33	0.58
1:AA:43:C:C5'	19:AS:12:LYS:HB3	2.25	0.58
49:B1:27:LEU:HD21	49:B1:49:LYS:N	2.19	0.58
50:B2:26:LEU:HB2	50:B2:28:LEU:HD11	1.86	0.58
50:B2:6:VAL:HA	50:B2:55:ARG:O	2.03	0.58
50:B2:8:LEU:HD22	50:B2:9:VAL:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B3:64:GLY:HA2	51:B3:67:TYR:CD1	2.39	0.58
54:B6:11:LYS:CE	54:B6:15:THR:HG21	2.34	0.58
55:B7:22:VAL:CG1	55:B7:23:VAL:N	2.67	0.58
55:B7:26:LYS:HB2	55:B7:44:LYS:HZ2	1.68	0.58
25:BA:2756:U:H3'	56:B8:20:HIS:CE1	2.39	0.58
25:BA:999:U:O2'	25:BA:1000:A:H5'	2.02	0.58
25:BA:1160:G:H2'	25:BA:1161:C:C5	2.38	0.58
25:BA:1179:C:O2'	25:BA:1180:C:H6	1.86	0.58
25:BA:974:G:O2'	25:BA:1186:G:N9	2.28	0.58
25:BA:1263:U:H2'	25:BA:1264:G:C4	2.38	0.58
25:BA:1271:G:H3'	25:BA:1271:G:C8	2.37	0.58
25:BA:1351:C:C4	25:BA:1381:G:C6	2.92	0.58
25:BA:146:G:H2'	25:BA:147:U:H5''	1.86	0.58
25:BA:1527:G:H2'	25:BA:1528:A:O4'	2.04	0.58
25:BA:1606:G:C4'	25:BA:1608:A:N3	2.59	0.58
25:BA:1710:C:H2'	25:BA:1711:C:C6	2.33	0.58
25:BA:1790:C:H2'	25:BA:1791:A:C8	2.38	0.58
25:BA:191:A:H62	25:BA:204:A:H62	1.50	0.58
25:BA:218:A:N1	25:BA:235:U:O2'	2.26	0.58
3:AD:76:A:H2	25:BA:2431:U:O3'	1.85	0.58
25:BA:2450:A:H2	25:BA:2451:A:C8	2.21	0.58
25:BA:2597:G:C5'	28:BD:242:ARG:HE	2.17	0.58
25:BA:2675:A:OP1	36:BN:32:TYR:HE2	1.87	0.58
25:BA:270(X):G:C6	25:BA:270(Y):G:H1'	2.37	0.58
25:BA:80:G:C1'	25:BA:347:A:N6	2.65	0.58
25:BA:364:C:P	25:BA:364:C:H6	2.26	0.58
25:BA:374:A:H5'	25:BA:375:C:OP2	2.04	0.58
25:BA:261:G:H4'	25:BA:608:A:H2	1.69	0.58
25:BA:738:G:C8	25:BA:739:G:N2	2.71	0.58
25:BA:71:A:N3	25:BA:73:A:C6	2.72	0.58
25:BA:920:G:N2	25:BA:921:G:N9	2.52	0.58
25:BA:96:G:O2'	25:BA:97:C:H5'	2.04	0.58
26:BB:71:C:O2	26:BB:71:C:C2'	2.45	0.58
28:BD:105:ILE:HG13	28:BD:106:ILE:HG13	1.84	0.58
29:BE:128:SER:OG	29:BE:129:HIS:CD2	2.57	0.58
25:BA:2051:A:O3'	29:BE:141:ILE:HG13	2.03	0.58
29:BE:149:ARG:C	29:BE:149:ARG:HD3	2.23	0.58
29:BE:62:PRO:O	29:BE:64:LYS:N	2.36	0.58
31:BG:64:THR:HB	31:BG:102:PHE:CE1	2.38	0.58
32:BH:85:LYS:NZ	32:BH:142:GLY:N	2.52	0.58
32:BH:91:GLY:N	32:BH:94:TYR:HD1	1.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:126:PRO:HG2	35:BM:129:PRO:HD2	1.86	0.58
35:BM:2:LYS:HE3	35:BM:3:THR:OG1	2.03	0.58
36:BN:106:LEU:HD13	41:BS:39:ARG:NH2	2.19	0.58
36:BN:23:ARG:CB	36:BN:23:ARG:NH1	2.57	0.58
38:BP:59:ARG:C	38:BP:59:ARG:HD2	2.24	0.58
38:BP:76:LYS:HE3	38:BP:77:LYS:O	2.04	0.58
39:BQ:5:LYS:HZ1	39:BQ:6:SER:C	2.06	0.58
41:BS:108:ARG:H	41:BS:108:ARG:HH11	1.51	0.58
36:BN:121:VAL:C	41:BS:70:VAL:HG12	2.22	0.58
41:BS:85:LYS:O	41:BS:85:LYS:HE2	2.03	0.58
44:BV:34:ASN:C	44:BV:37:ARG:HG3	2.23	0.58
44:BV:51:LEU:N	44:BV:51:LEU:CD1	2.66	0.58
1:AA:81:G:C6	1:AA:82:U:O4	2.57	0.58
1:AA:1068:G:N2	1:AA:1191:A:C2	2.70	0.58
1:AA:1159:U:O4	1:AA:1182:G:N3	2.36	0.58
1:AA:1157:A:N1	1:AA:1180:A:C4	2.72	0.58
1:AA:1490:C:C2'	1:AA:1491:G:O5'	2.52	0.58
1:AA:310:G:H2'	1:AA:311:C:C6	2.39	0.58
1:AA:363:A:N1	1:AA:364:A:N3	2.52	0.58
1:AA:391:G:OP1	19:AS:28:ARG:NH2	2.37	0.58
1:AA:515:G:N2	1:AA:537:G:C4	2.70	0.58
1:AA:573:A:H2'	1:AA:574:A:H8	1.64	0.58
1:AA:608:A:C2	1:AA:609:A:C8	2.92	0.58
1:AA:622:A:H2'	1:AA:623:C:O5'	2.02	0.58
1:AA:61:G:N7	1:AA:62:U:C4	2.72	0.58
1:AA:739:C:O2'	1:AA:740:U:H5'	2.04	0.58
2:AC:19:G:C4'	2:AC:20:U:OP2	2.51	0.58
2:AC:46:G:OP2	2:AC:46:G:H8	1.87	0.58
3:AD:32:C:H2'	3:AD:33:U:H5'	1.85	0.58
3:AD:63:G:C6	3:AD:64:C:C4	2.91	0.58
6:AF:22:TRP:CE2	17:AQ:54:PRO:HG3	2.38	0.58
6:AF:77:ILE:C	6:AF:83:ARG:HB3	2.24	0.58
6:AF:89:GLU:O	6:AF:90:GLU:C	2.42	0.58
6:AF:91:LEU:HD11	6:AF:99:VAL:HG13	1.85	0.58
7:AG:133:VAL:HG21	7:AG:138:TYR:CD1	2.39	0.58
8:AH:43:LEU:HD22	8:AH:133:TYR:CE2	2.37	0.58
11:AK:46:LYS:NZ	11:AK:65:TYR:H	2.01	0.58
11:AK:49:GLU:CD	11:AK:60:ARG:HB3	2.23	0.58
11:AK:6:ILE:HD13	11:AK:10:LEU:HG	1.85	0.58
15:AO:54:LYS:HD2	15:AO:54:LYS:N	2.19	0.58
16:AP:120:LYS:O	16:AP:121:LYS:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:86:CYS:SG	16:AP:89:GLY:HA3	2.43	0.58
1:AA:1216:G:OP1	17:AQ:3:ARG:NH2	2.37	0.58
18:AR:26:GLU:CD	18:AR:26:GLU:N	2.56	0.58
1:AA:607:A:C2	19:AS:31:LYS:HG3	2.37	0.58
19:AS:66:PRO:HG2	19:AS:71:ARG:HB2	1.85	0.58
1:AA:130:A:H8	20:AT:63:ARG:HG3	1.68	0.58
20:AT:57:VAL:HG21	20:AT:73:VAL:HG13	1.85	0.58
20:AT:97:SER:O	20:AT:98:LEU:HD13	2.03	0.58
21:AU:33:ASP:O	21:AU:34:TYR:CD2	2.56	0.58
51:B3:28:LYS:CE	51:B3:29:PRO:HD2	2.22	0.58
51:B3:59:PHE:HB3	51:B3:62:ARG:NH1	2.19	0.58
53:B5:35:GLU:OE2	53:B5:52:VAL:HG13	2.02	0.58
53:B5:9:LEU:CD2	53:B5:27:LYS:HG2	2.34	0.58
55:B7:52:LYS:N	55:B7:53:PRO:HD2	2.18	0.58
25:BA:1003:G:N3	25:BA:1010:A:C2	2.72	0.58
25:BA:9:U:O2'	25:BA:10:G:H5'	2.03	0.58
25:BA:1115:G:H2'	25:BA:1115:G:N3	2.18	0.58
25:BA:1128:A:C2	25:BA:1129:A:C5	2.91	0.58
25:BA:1472:A:C2'	25:BA:1473:G:H8	2.16	0.58
25:BA:1488:G:C6	25:BA:1489:U:N1	2.72	0.58
25:BA:1693:U:H5''	25:BA:1694:C:OP2	2.03	0.58
25:BA:1779:U:C1'	25:BA:1783:A:H62	2.17	0.58
25:BA:1823:G:C2	25:BA:1824:G:C8	2.91	0.58
25:BA:1857:G:N2	25:BA:1884:A:H61	2.02	0.58
25:BA:1933:G:H2'	25:BA:1974:C:H4'	1.84	0.58
25:BA:2014:A:C1'	25:BA:2015:A:H2	2.16	0.58
25:BA:2118:U:H5''	25:BA:2119:A:OP2	2.04	0.58
25:BA:2175:C:H4'	27:BC:219:GLY:O	2.04	0.58
25:BA:2333:A:H2'	25:BA:2333:A:N3	2.18	0.58
25:BA:2408:U:O5'	25:BA:2408:U:H6	1.87	0.58
25:BA:2426:A:OP1	25:BA:2426:A:H8	1.86	0.58
25:BA:2519:U:N1	25:BA:2542:A:N1	2.51	0.58
25:BA:1782:C:O2	25:BA:2609:U:H6	1.87	0.58
25:BA:2615:U:C2	52:B4:7:PRO:HA	2.39	0.58
25:BA:2698:U:C2	25:BA:2699:C:C5	2.91	0.58
25:BA:270(X):G:H4'	25:BA:272:G:O3'	2.04	0.58
25:BA:2781:A:H8	25:BA:2781:A:C5'	2.16	0.58
25:BA:2808:U:O2'	25:BA:2810:A:P	2.61	0.58
25:BA:2895:U:H2'	25:BA:2896:C:H6	1.67	0.58
25:BA:311:A:H1'	25:BA:332:A:C5	2.38	0.58
25:BA:351:G:O2'	25:BA:352:G:OP2	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:458:G:H1'	25:BA:469:G:N1	2.18	0.58
25:BA:543:C:C2	25:BA:551:G:N2	2.70	0.58
25:BA:617:G:OP1	30:BF:40:GLN:OE1	2.22	0.58
26:BB:23:G:H2'	26:BB:24:G:C8	2.39	0.58
26:BB:52:A:H2'	26:BB:53:A:O4'	2.03	0.58
27:BC:34:THR:O	27:BC:34:THR:HG22	2.03	0.58
28:BD:133:LEU:HD11	28:BD:185:VAL:HG12	1.85	0.58
28:BD:240:ALA:O	28:BD:241:PRO:O	2.22	0.58
28:BD:5:LYS:O	28:BD:27:THR:HG23	2.02	0.58
28:BD:33:LEU:HD12	28:BD:61:LEU:HD13	1.84	0.58
29:BE:105:THR:HB	29:BE:166:THR:CA	2.33	0.58
29:BE:108:SER:CB	29:BE:163:GLU:O	2.51	0.58
29:BE:108:SER:OG	29:BE:163:GLU:O	2.20	0.58
29:BE:8:LYS:O	29:BE:192:ASN:HB2	2.04	0.58
30:BF:31:HIS:O	30:BF:38:ARG:NH2	2.37	0.58
25:BA:673:C:H4'	30:BF:82:ILE:HG13	1.84	0.58
31:BG:52:ILE:HG22	31:BG:152:LEU:CD2	2.30	0.58
31:BG:77:ILE:HA	31:BG:83:ARG:NE	2.19	0.58
32:BH:107:VAL:O	32:BH:107:VAL:CG2	2.52	0.58
32:BH:117:PRO:HD3	32:BH:123:PHE:CE2	2.38	0.58
32:BH:105:LEU:CD1	32:BH:148:ILE:HD11	2.30	0.58
35:BM:15:LEU:CD2	35:BM:15:LEU:N	2.63	0.58
35:BM:39:ARG:N	35:BM:42:TRP:HE3	2.01	0.58
37:BO:78:PRO:HB3	37:BO:123:LEU:HD21	1.85	0.58
39:BQ:103:ARG:HG3	39:BQ:108:GLY:HA2	1.86	0.58
39:BQ:10:LEU:CD1	39:BQ:17:ARG:HD3	2.32	0.58
25:BA:2880:C:O2'	39:BQ:90:ARG:HD2	2.03	0.58
36:BN:77:ILE:HG12	41:BS:75:ILE:HD12	1.84	0.58
43:BU:6:LYS:HG2	43:BU:10:LYS:O	2.04	0.58
44:BV:33:ARG:HD3	44:BV:37:ARG:NE	2.17	0.58
45:BW:39:ILE:CG2	45:BW:54:VAL:HG11	2.34	0.58
46:BX:75:ILE:N	46:BX:100:ALA:CB	2.65	0.58
46:BX:37:VAL:HG22	46:BX:37:VAL:O	2.02	0.58
46:BX:12:THR:HG21	46:BX:72:VAL:N	2.18	0.58
46:BX:7:VAL:HG22	46:BX:71:LYS:CG	2.29	0.58
25:BA:1068:G:OP2	34:BL:21:PRO:HB2	2.03	0.58
26:BB:89(A):A:C2'	26:BB:90:C:H5'	2.25	0.58
1:AA:108:G:C6	23:AW:15:ARG:NE	2.71	0.58
1:AA:1113:C:H2'	1:AA:1114:C:O4'	2.03	0.58
1:AA:1147:C:N3	1:AA:1148:U:C5	2.72	0.58
1:AA:1187:G:C4	1:AA:1188:A:N7	2.71	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1210:C:C5'	1:AA:1214:C:H42	2.16	0.58
1:AA:1325:C:H2'	1:AA:1326:C:H6	1.68	0.58
1:AA:1251:A:O4'	1:AA:1370:G:H4'	2.04	0.58
1:AA:191(D):U:H6	1:AA:191(D):U:O5'	1.86	0.58
1:AA:31:G:N2	1:AA:47:C:H5''	2.18	0.58
1:AA:692:U:O2	1:AA:694:A:C8	2.57	0.58
1:AA:772:U:O2'	1:AA:773:G:H5'	2.02	0.58
1:AA:888:G:H21	1:AA:909:A:N6	1.96	0.58
1:AA:959:A:H3'	1:AA:960:U:C5'	2.27	0.58
3:AD:36:A:H3'	3:AD:37:A:H8	1.67	0.58
5:AE:162:ILE:HD11	5:AE:184:VAL:CG2	2.33	0.58
5:AE:19:HIS:CE1	5:AE:204:ASN:HD21	2.22	0.58
6:AF:20:SER:HB2	6:AF:40:ARG:NH2	2.18	0.58
6:AF:58:GLU:O	6:AF:59:ARG:NE	2.36	0.58
6:AF:65:ALA:O	6:AF:66:VAL:HB	2.02	0.58
11:AK:63:LEU:O	11:AK:64:LYS:HB2	2.02	0.58
11:AK:97:VAL:CG2	11:AK:98:LYS:HD3	2.32	0.58
12:AL:49:PRO:HD3	12:AL:78:LYS:HZ2	1.67	0.58
17:AQ:26:ARG:HB2	17:AQ:39:LEU:CD2	2.31	0.58
17:AQ:27:CYS:SG	17:AQ:42:ILE:HG13	2.44	0.58
18:AR:56:LEU:HG	18:AR:57:LEU:HD12	1.84	0.58
19:AS:36:ILE:HG21	19:AS:55:ARG:HB3	1.85	0.58
19:AS:7:ALA:HB1	19:AS:9:PHE:HE2	1.69	0.58
20:AT:15:MET:CB	20:AT:18:THR:HB	2.33	0.58
23:AW:13:LEU:HD13	23:AW:17:ARG:HH22	1.67	0.58
24:AX:23:PRO:C	24:AX:25:LYS:H	2.06	0.58
49:B1:16:LEU:HD12	49:B1:19:LEU:HD12	1.85	0.58
51:B3:19:GLY:CA	51:B3:30:GLU:O	2.41	0.58
51:B3:18:CYS:CA	51:B3:33:VAL:HG21	2.33	0.58
52:B4:45:VAL:O	52:B4:46:CYS:CB	2.50	0.58
53:B5:14:THR:HG22	53:B5:51:GLU:HG2	1.84	0.58
54:B6:42:LEU:HD22	54:B6:44:PRO:CD	2.33	0.58
54:B6:49:ARG:HH21	54:B6:49:ARG:HG3	1.67	0.58
25:BA:1049:C:C6	25:BA:1049:C:H3'	2.38	0.58
25:BA:1051:G:H4'	25:BA:2752:C:C1'	2.33	0.58
25:BA:1223:C:C4	25:BA:1227:A:N1	2.72	0.58
25:BA:1298:C:C5'	25:BA:1302:A:H62	2.16	0.58
25:BA:1326:U:H2'	25:BA:1327:C:C4'	2.34	0.58
25:BA:1406:U:O2'	25:BA:1407:C:O5'	2.08	0.58
25:BA:1558:A:C2	25:BA:1560:G:H1'	2.36	0.58
25:BA:1416:G:N3	25:BA:1583:A:N1	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1658:C:H5''	25:BA:1659:U:OP2	2.04	0.58
25:BA:1717:G:C2	25:BA:1718:G:N3	2.71	0.58
25:BA:1730:U:H6	25:BA:1730:U:O5'	1.86	0.58
25:BA:1791:A:O4'	28:BD:209:ALA:CB	2.48	0.58
25:BA:1803:A:C3'	28:BD:257:LEU:HD13	2.33	0.58
25:BA:1814:G:P	28:BD:43:ARG:HB2	2.44	0.58
25:BA:1891:G:N3	25:BA:1891:G:H2'	2.19	0.58
25:BA:1952:A:H2	36:BN:22:ILE:HG23	1.69	0.58
25:BA:2115:G:O2'	25:BA:2117:A:N6	2.37	0.58
25:BA:2134:A:H2'	25:BA:2135:A:H5''	1.86	0.58
25:BA:2238:G:H2'	25:BA:2239:G:OP2	2.03	0.58
25:BA:2278:A:OP1	38:BP:14:ARG:HG3	2.03	0.58
25:BA:2355:C:C5'	48:BZ:25:ARG:HH21	2.17	0.58
25:BA:2385:C:C2	25:BA:2386:C:C6	2.91	0.58
25:BA:2498:C:O2	25:BA:2498:C:C2'	2.51	0.58
25:BA:2572:A:H5''	25:BA:2574:G:H5''	1.84	0.58
25:BA:2581:G:C4'	25:BA:2582:G:N7	2.55	0.58
25:BA:2592:G:C6	25:BA:2593:U:C4	2.92	0.58
25:BA:2657:A:N1	25:BA:2665:A:N7	2.52	0.58
25:BA:2690:C:C6	25:BA:2690:C:H3'	2.37	0.58
25:BA:2698:U:H2'	25:BA:2699:C:H6	1.67	0.58
25:BA:2708:G:OP1	39:BQ:68:ARG:NE	2.22	0.58
25:BA:627:A:C2	25:BA:637:A:N3	2.72	0.58
25:BA:723:G:C2	25:BA:724:U:H1'	2.38	0.58
25:BA:768:G:C4	25:BA:769:G:C8	2.91	0.58
25:BA:94:G:H21	25:BA:95:G:H1'	1.69	0.58
25:BA:973:A:O2'	25:BA:974:G:C5'	2.52	0.58
25:BA:977:G:O6	25:BA:987:G:C6	2.57	0.58
26:BB:60:C:C2	26:BB:61:G:N7	2.71	0.58
26:BB:91:C:H2'	26:BB:92:G:O4'	2.03	0.58
27:BC:100:ILE:HG23	27:BC:127:LEU:CG	2.33	0.58
28:BD:89:SER:OG	28:BD:159:ALA:HB2	2.04	0.58
28:BD:180:GLY:O	28:BD:270:ILE:HG21	2.03	0.58
28:BD:11:PRO:HB2	28:BD:24:ILE:HD12	1.85	0.58
29:BE:152:LYS:C	29:BE:152:LYS:HD2	2.23	0.58
29:BE:154:LYS:HE3	29:BE:154:LYS:N	2.18	0.58
25:BA:2680:C:OP1	29:BE:190:GLY:HA2	2.02	0.58
29:BE:4:ILE:O	29:BE:27:LEU:CD1	2.49	0.58
29:BE:54:GLN:CD	29:BE:56:PRO:HD2	2.23	0.58
30:BF:78:ILE:HG12	30:BF:83:PHE:CE1	2.39	0.58
31:BG:34:LEU:HD12	31:BG:100:TRP:CZ2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:56:C:O2	31:BG:82:LEU:CB	2.52	0.58
32:BH:74:ASN:HB2	32:BH:138:LYS:CE	2.32	0.58
35:BM:129:PRO:O	35:BM:130:HIS:C	2.42	0.58
35:BM:36:GLY:O	35:BM:47:ALA:HB3	2.04	0.58
35:BM:7:LYS:CE	35:BM:39:ARG:NH1	2.62	0.58
36:BN:43:VAL:HG13	36:BN:43:VAL:O	2.02	0.58
38:BP:109:VAL:HG21	38:BP:114:ALA:N	2.18	0.58
38:BP:87:LYS:O	38:BP:87:LYS:CG	2.52	0.58
39:BQ:80:PHE:O	39:BQ:84:ALA:HB3	2.04	0.58
39:BQ:83:ILE:CG2	39:BQ:86:ARG:NH2	2.67	0.58
40:BR:66:ALA:HB1	40:BR:100:ALA:HB1	1.86	0.58
41:BS:15:VAL:O	41:BS:17:THR:O	2.21	0.58
36:BN:76:ALA:CA	41:BS:77:PRO:HD2	2.29	0.58
42:BT:15:LYS:CA	42:BT:18:LEU:HG	2.32	0.58
43:BU:2:PHE:HA	43:BU:14:VAL:O	2.04	0.58
44:BV:15:ARG:O	44:BV:18:ARG:CB	2.51	0.58
44:BV:36:LEU:CD2	44:BV:47:VAL:HB	2.28	0.58
46:BX:29:GLU:CG	46:BX:34:LYS:HB2	2.34	0.58
46:BX:60:PHE:C	46:BX:61:ILE:HD12	2.24	0.58
47:BY:166:SER:OG	47:BY:167:PRO:CD	2.51	0.58
25:BA:1058:G:C6	25:BA:1081:U:N3	2.72	0.58
10:AJ:129:GLU:CD	10:AJ:131:LYS:HD3	2.24	0.58
26:BB:93:C:H2'	26:BB:94:C:H6	1.67	0.58
1:AA:792:A:N6	4:A1:15:A:H2	2.00	0.58
1:AA:1124:G:H2'	1:AA:1126:U:O4	2.03	0.58
1:AA:1133:G:N1	1:AA:1142:G:C6	2.72	0.58
1:AA:1302:U:O2'	1:AA:1303:C:OP1	2.19	0.58
1:AA:1451:A:H5''	1:AA:1452:C:H5	1.69	0.58
1:AA:1416:G:N2	1:AA:1485:U:H1'	2.19	0.58
1:AA:179:A:H3'	1:AA:180:U:C6	2.39	0.58
1:AA:195:A:P	23:AW:68:LYS:NZ	2.76	0.58
1:AA:197:A:H61	1:AA:221:C:C5'	2.07	0.58
1:AA:22:G:H3'	1:AA:23:C:H6	1.69	0.58
1:AA:280:C:C5'	1:AA:281:G:OP2	2.51	0.58
1:AA:375:U:C2	1:AA:376:G:C8	2.92	0.58
1:AA:450:G:H4'	19:AS:42:ARG:HG3	1.86	0.58
1:AA:452:A:H2'	1:AA:453:A:H8	1.64	0.58
1:AA:815:A:C2	1:AA:1527:C:O2	2.55	0.58
1:AA:830:G:N2	1:AA:857:C:H1'	2.18	0.58
1:AA:948:C:P	16:AP:109:THR:H	2.27	0.58
1:AA:991:U:O2'	1:AA:993:G:C8	2.57	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:15:G:H1	3:AD:48:C:H41	1.47	0.58
3:AD:48:C:HO2'	3:AD:49:G:P	2.27	0.58
6:AF:111:LEU:CD1	6:AF:111:LEU:N	2.67	0.58
6:AF:110:ASN:CG	6:AF:144:SER:OG	2.42	0.58
7:AG:92:VAL:HG12	7:AG:96:LEU:HD11	1.84	0.58
9:AI:5:GLU:HB2	9:AI:62:TRP:NE1	2.18	0.58
9:AI:72:VAL:HG23	9:AI:73:ASN:N	2.17	0.58
10:AJ:94:ARG:O	10:AJ:97:GLN:HB3	2.02	0.58
11:AK:97:VAL:CG2	11:AK:98:LYS:H	1.95	0.58
12:AL:10:ARG:NH1	12:AL:105:ASP:OD2	2.36	0.58
12:AL:37:PHE:HD1	12:AL:43:ALA:HA	1.69	0.58
14:AN:69:ALA:CB	14:AN:103:LEU:HD12	2.22	0.58
14:AN:48:ILE:HD11	14:AN:64:ALA:HB2	1.85	0.58
14:AN:25:TYR:CZ	14:AN:87:THR:HB	2.38	0.58
15:AO:7:ILE:CG2	20:AT:34:LYS:HB2	2.32	0.58
18:AR:70:LEU:HD23	18:AR:81:LEU:HD13	1.86	0.58
50:B2:28:LEU:O	50:B2:29:ARG:HB2	2.02	0.58
50:B2:37:LEU:HD12	50:B2:43:ILE:HB	1.84	0.58
50:B2:50:VAL:HG13	50:B2:53:LEU:CD1	2.33	0.58
53:B5:15:GLU:OE1	53:B5:16:CYS:N	2.37	0.58
53:B5:25:LYS:CD	55:B7:35:GLN:HB3	2.34	0.58
25:BA:127:A:H62	54:B6:18:PHE:HZ	1.52	0.58
54:B6:5:TRP:C	54:B6:6:GLN:HG2	2.24	0.58
55:B7:30:ARG:NH1	55:B7:41:ILE:O	2.37	0.58
55:B7:33:ASN:O	55:B7:34:TRP:HB2	2.03	0.58
55:B7:44:LYS:HA	55:B7:44:LYS:CE	2.33	0.58
25:BA:1024:G:H22	25:BA:1139:G:H1	0.76	0.58
25:BA:1142:U:H2'	25:BA:1142(A):A:C8	2.39	0.58
25:BA:1153:C:C4	25:BA:1154:G:O6	2.56	0.58
25:BA:1223:C:O2	25:BA:1225:C:H5''	2.04	0.58
25:BA:1249:U:C4	37:BO:21:ARG:CZ	2.86	0.58
25:BA:1475:G:N7	25:BA:1517:G:C2	2.72	0.58
25:BA:1542:G:H5'	25:BA:1542:G:N3	2.18	0.58
25:BA:1695:G:H3'	25:BA:1695:G:N3	2.19	0.58
25:BA:1707:G:C4	25:BA:1708:C:C5	2.92	0.58
25:BA:1814:G:H5''	25:BA:1815:A:O5'	2.03	0.58
25:BA:1834:U:H1'	25:BA:1969:A:N3	2.18	0.58
25:BA:2014:A:O5'	25:BA:2014:A:H8	1.87	0.58
25:BA:2043:C:O2'	25:BA:2044:C:O5'	2.20	0.58
25:BA:2072:G:C4	25:BA:2073:C:C5	2.92	0.58
25:BA:2092:U:H5	25:BA:2227:A:C6	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2104:G:N2	25:BA:2105:C:C2	2.72	0.58
25:BA:217:G:C2'	25:BA:218:A:H5'	2.23	0.58
25:BA:2209:C:H6	25:BA:2209:C:H3'	1.68	0.58
25:BA:2307:G:C3'	25:BA:2308:G:H4'	2.34	0.58
25:BA:2364:C:H4'	48:BZ:56:ASP:OD1	2.04	0.58
25:BA:2547:U:C2'	25:BA:2548:G:H5''	2.34	0.58
25:BA:270(M):U:H5'	25:BA:270(O):U:OP2	2.04	0.58
25:BA:270(V):G:C5	25:BA:270(W):G:N7	2.72	0.58
25:BA:28:A:N3	25:BA:29:U:O4'	2.36	0.58
25:BA:533:G:H2'	25:BA:534:U:C1'	2.33	0.58
25:BA:618(A):C:N4	25:BA:619:G:N2	2.51	0.58
25:BA:648:G:N3	25:BA:649:G:C8	2.71	0.58
25:BA:793:A:C2'	25:BA:794:G:OP2	2.52	0.58
25:BA:876:C:H2'	25:BA:877:U:C6	2.39	0.58
25:BA:973:A:O2'	25:BA:974:G:O5'	2.22	0.58
26:BB:103:U:C3'	26:BB:104:A:H5'	2.33	0.58
26:BB:29:A:H2'	26:BB:30:C:O4'	2.04	0.58
26:BB:55:U:O2'	26:BB:56:G:C5'	2.51	0.58
27:BC:91:ALA:HA	27:BC:153:ILE:CG2	2.33	0.58
27:BC:165:ASN:HA	27:BC:170:ALA:O	2.03	0.58
28:BD:132:PRO:O	28:BD:133:LEU:C	2.39	0.58
29:BE:102:VAL:CG2	29:BE:104:VAL:HG23	2.33	0.58
29:BE:103:ASP:O	29:BE:104:VAL:HG23	2.02	0.58
30:BF:155:LEU:HD23	30:BF:174:VAL:CG2	2.34	0.58
31:BG:177:GLY:O	31:BG:178:PHE:HB3	2.03	0.58
31:BG:26:GLN:O	31:BG:27:ASN:HB2	2.04	0.58
33:BK:9:LEU:HG	33:BK:17:GLN:NE2	2.19	0.58
25:BA:558:G:OP2	35:BM:111:PRO:HG2	2.03	0.58
38:BP:11:LYS:CG	38:BP:12:GLN:H	2.14	0.58
25:BA:2821:A:OP2	39:BQ:4:LEU:CD2	2.51	0.58
39:BQ:61:HIS:ND1	39:BQ:64:ARG:NE	2.51	0.58
40:BR:15:ARG:HH21	40:BR:15:ARG:CG	2.15	0.58
41:BS:6:LEU:HD23	41:BS:7:ILE:HD13	1.85	0.58
41:BS:18:ASP:HA	41:BS:81:PRO:HB3	1.85	0.58
42:BT:81:HIS:HB3	42:BT:117:GLN:OE1	2.04	0.58
42:BT:91:ASP:OD1	43:BU:10:LYS:HE2	2.03	0.58
43:BU:35:LEU:C	43:BU:61:VAL:HG22	2.24	0.58
44:BV:65:LEU:O	44:BV:66:GLU:C	2.42	0.58
45:BW:40:LYS:HG2	45:BW:51:VAL:CG1	2.33	0.58
46:BX:19:LYS:HB3	46:BX:21:LYS:HE3	1.86	0.58
47:BY:102:LEU:HG	47:BY:125:LEU:CD1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:15:PRO:HA	47:BY:18:LEU:HD12	1.84	0.58
48:BZ:44:ARG:HG2	48:BZ:77:ARG:HG3	1.84	0.58
34:BL:19:PRO:HG2	34:BL:22:PRO:HG2	1.85	0.58
12:AL:53:VAL:O	12:AL:54:ASP:CB	2.52	0.58
1:AA:1077:G:N3	1:AA:1081:G:C2	2.71	0.58
1:AA:1341:U:H6	1:AA:1341:U:O5'	1.87	0.58
1:AA:1347:G:H4'	1:AA:1348:U:O5'	2.03	0.58
1:AA:1416:G:O2'	1:AA:1417:G:H5'	2.03	0.58
1:AA:174:C:N4	1:AA:175:C:N4	2.52	0.58
1:AA:118:U:C6	1:AA:288:A:C2	2.92	0.58
1:AA:625:G:OP1	19:AS:9:PHE:CB	2.51	0.58
1:AA:782:A:N1	1:AA:801:U:C1'	2.66	0.58
1:AA:859:A:C2'	1:AA:860:A:O5'	2.51	0.58
1:AA:877:C:O2'	11:AK:3:THR:HB	2.03	0.58
2:AC:15:G:H22	2:AC:48:C:H42	1.51	0.58
2:AC:16:C:H4'	2:AC:18:G:C5'	2.34	0.58
5:AE:168:THR:CB	5:AE:192:SER:HA	2.34	0.58
5:AE:60:ASP:CG	5:AE:64:ARG:NH2	2.57	0.58
6:AF:88:ARG:N	6:AF:101:LEU:HD12	2.19	0.58
8:AH:144:THR:O	8:AH:145:LYS:C	2.42	0.58
8:AH:78:HIS:NE2	8:AH:142:LEU:HD23	2.18	0.58
11:AK:32:LYS:O	11:AK:35:ILE:HB	2.04	0.58
1:AA:1179:A:H4'	12:AL:103:THR:OG1	2.04	0.58
12:AL:5:TYR:HD2	12:AL:17:VAL:O	1.87	0.58
12:AL:47:LEU:O	12:AL:50:LEU:HB3	2.04	0.58
12:AL:63:ILE:N	12:AL:63:ILE:HD12	2.19	0.58
13:AM:4:ILE:HD13	13:AM:98:ILE:CG2	2.34	0.58
13:AM:7:LYS:O	13:AM:97:GLU:CB	2.46	0.58
14:AN:18:ARG:NH2	14:AN:37:GLY:HA2	2.19	0.58
15:AO:51:ALA:C	15:AO:52:LEU:HD23	2.24	0.58
16:AP:98:VAL:HG23	16:AP:110:ARG:HH21	1.69	0.58
1:AA:189:U:H3	20:AT:63:ARG:CB	2.16	0.58
51:B3:28:LYS:HG2	51:B3:29:PRO:HD2	1.85	0.58
52:B4:15:ARG:O	52:B4:18:ALA:N	2.37	0.58
55:B7:53:PRO:HA	55:B7:56:GLU:CD	2.24	0.58
55:B7:56:GLU:O	55:B7:59:LYS:HB2	2.04	0.58
25:BA:1026:U:C2'	25:BA:1026:U:O2	2.52	0.58
25:BA:1264:G:N7	25:BA:1265:A:N7	2.51	0.58
25:BA:1298:C:H4'	25:BA:1302:A:H62	1.67	0.58
25:BA:1505:C:H2'	25:BA:1505:C:O2	2.02	0.58
25:BA:1543:A:O3'	25:BA:1544:C:H4'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1605:C:H5'	25:BA:1610:A:N6	2.19	0.58
25:BA:1609:A:C8	25:BA:1616:A:H1'	2.39	0.58
25:BA:1668:A:N7	25:BA:1674:G:C5	2.71	0.58
25:BA:155:C:C2	25:BA:171:G:N2	2.71	0.58
25:BA:1782:C:C2	25:BA:2609:U:H6	2.22	0.58
25:BA:1799:G:C6	25:BA:1819:A:N7	2.72	0.58
25:BA:1820:U:N1	28:BD:202:LYS:CG	2.66	0.58
25:BA:578:A:H2'	25:BA:2018:G:H5''	1.86	0.58
25:BA:2052:G:O2'	29:BE:143:ASN:C	2.41	0.58
25:BA:2235:G:H2'	25:BA:2236:C:O5'	2.04	0.58
25:BA:2274:A:C5	25:BA:2276:G:C8	2.92	0.58
25:BA:2285:C:O4'	25:BA:2288:A:N6	2.36	0.58
25:BA:2323:G:C2	25:BA:2324:C:N3	2.72	0.58
25:BA:830:G:H1	25:BA:2446:G:H5'	1.68	0.58
25:BA:1966:A:N3	25:BA:2593:U:C5'	2.67	0.58
25:BA:2599:G:C4	25:BA:2600:A:C8	2.91	0.58
25:BA:2602:A:C8	48:BZ:2:ALA:HB2	2.39	0.58
25:BA:2634:G:O2'	25:BA:2635:C:H5'	2.04	0.58
25:BA:2001:A:H4'	25:BA:2689:U:H2'	1.86	0.58
25:BA:2731:G:C2	25:BA:2732:G:C2	2.92	0.58
25:BA:2750:A:H61	56:B8:18:ARG:HH11	1.51	0.58
25:BA:2814:C:H2'	25:BA:2815:C:H6	1.68	0.58
25:BA:2851:A:C2	25:BA:2852:G:C8	2.91	0.58
25:BA:2861:G:H2'	25:BA:2862:G:C8	2.38	0.58
25:BA:2865:U:O4	25:BA:2866:U:C5	2.52	0.58
25:BA:283:A:N1	25:BA:359:A:C5'	2.66	0.58
25:BA:3:U:H2'	25:BA:4:C:C6	2.39	0.58
25:BA:455:C:O4'	25:BA:455:C:P	2.62	0.58
25:BA:482:A:H2	25:BA:497:A:H61	1.51	0.58
25:BA:50:U:H3'	25:BA:50:U:C6	2.39	0.58
25:BA:524:U:H4'	25:BA:554:U:H4'	1.85	0.58
25:BA:728:G:C2	25:BA:763:G:P	2.96	0.58
25:BA:782:A:N3	28:BD:231:HIS:NE2	2.52	0.58
25:BA:785:G:O2'	25:BA:786:C:OP1	2.18	0.58
25:BA:823:G:C6	25:BA:824:A:N6	2.72	0.58
25:BA:861:A:H3'	25:BA:861:A:C8	2.39	0.58
27:BC:22:ILE:HG21	27:BC:190:ARG:HH12	1.68	0.58
28:BD:36:PRO:HG2	28:BD:104:TYR:CE2	2.39	0.58
28:BD:151:LYS:CB	28:BD:154:LYS:HZ3	2.12	0.58
28:BD:267:SER:O	28:BD:268:ARG:O	2.21	0.58
28:BD:7:LYS:HZ3	28:BD:91:ARG:HH21	0.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:5:LEU:O	29:BE:195:LEU:HD13	2.04	0.58
30:BF:137:LYS:HZ1	30:BF:140:LEU:HB3	1.68	0.58
30:BF:6:VAL:CG1	30:BF:18:ARG:HD3	2.33	0.58
30:BF:74:ARG:HE	30:BF:75:HIS:H	1.50	0.58
31:BG:49:ASP:CA	31:BG:53:LEU:HD22	2.32	0.58
31:BG:75:LYS:HZ3	31:BG:86:MET:H	1.51	0.58
31:BG:44:GLY:H	31:BG:88:ILE:HG21	1.68	0.58
35:BM:29:LYS:O	35:BM:30:ILE:C	2.41	0.58
36:BN:8:LEU:CB	36:BN:19:ILE:CD1	2.82	0.58
36:BN:97:ARG:C	36:BN:97:ARG:CZ	2.72	0.58
37:BO:123:LEU:O	37:BO:138:LEU:HD12	2.04	0.58
38:BP:11:LYS:HG2	38:BP:13:GLN:H	1.68	0.58
39:BQ:52:ILE:O	39:BQ:55:ALA:HB3	2.04	0.58
40:BR:17:ARG:O	40:BR:20:ARG:HB2	2.04	0.58
44:BV:12:ILE:HG21	44:BV:42:ARG:HG2	1.86	0.58
45:BW:12:VAL:HG23	45:BW:28:PHE:HA	1.84	0.58
46:BX:39:VAL:O	46:BX:39:VAL:HG12	2.02	0.58
46:BX:47:LYS:O	46:BX:48:ALA:CB	2.51	0.58
46:BX:49:VAL:HG21	46:BX:51:VAL:HB	1.86	0.58
46:BX:46:LYS:NZ	46:BX:52:SER:HB2	2.19	0.58
46:BX:75:ILE:C	46:BX:100:ALA:HB2	2.24	0.58
25:BA:297:C:H4'	46:BX:83:THR:OG1	2.04	0.58
47:BY:99:TYR:CE1	47:BY:126:VAL:HG22	2.35	0.58
47:BY:133:ILE:O	47:BY:133:ILE:HD12	2.04	0.58
47:BY:6:LYS:CG	47:BY:35:ARG:HD3	2.34	0.58
33:BK:123:LEU:HD11	33:BK:145:VAL:CA	2.34	0.58
33:BK:77:LEU:N	33:BK:77:LEU:CD2	2.53	0.58
25:BA:1065:U:H3	25:BA:1066:U:H6	1.50	0.58
25:BA:1061:U:O4'	25:BA:1070:A:H1'	2.03	0.58
34:BL:16:LYS:O	34:BL:17:ALA:HB2	2.02	0.58
25:BA:846:C:O2	25:BA:847:U:C4	2.57	0.58
1:AA:1189:C:O5'	1:AA:1189:C:H6	1.85	0.58
1:AA:1194:U:C5	1:AA:1195:C:C5	2.91	0.58
1:AA:1242:C:P	24:AX:10:ARG:HH12	2.27	0.58
1:AA:1407:C:H6	1:AA:1407:C:O5'	1.86	0.58
1:AA:266:G:H21	1:AA:269:C:H41	1.51	0.58
1:AA:281:G:O2'	1:AA:282:A:C8	2.48	0.58
1:AA:284:G:H2'	1:AA:285:G:C8	2.39	0.58
1:AA:299:G:H2'	1:AA:300:A:C8	2.38	0.58
1:AA:425:G:C2	1:AA:426:G:C8	2.92	0.58
1:AA:484:G:O2'	1:AA:485:G:OP2	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:52:G:C2'	1:AA:53:A:C5'	2.81	0.58
1:AA:566:G:H4'	1:AA:567:G:OP1	2.01	0.58
1:AA:589:C:N3	1:AA:590:C:N4	2.52	0.58
1:AA:664:G:C8	1:AA:664:G:H3'	2.39	0.58
1:AA:799:G:N2	1:AA:800:G:C1'	2.66	0.58
1:AA:828:A:C8	1:AA:829:G:N9	2.71	0.58
1:AA:939:G:H2'	1:AA:940:C:C6	2.38	0.58
1:AA:99:C:O2'	1:AA:101:A:OP1	2.22	0.58
3:AD:34:G:H3'	3:AD:35:A:C5'	2.34	0.58
5:AE:61:LEU:HD11	5:AE:68:ILE:HG23	1.85	0.58
5:AE:87:ARG:HH21	5:AE:219:VAL:HG11	1.69	0.58
5:AE:95:GLN:HE21	5:AE:148:TYR:CA	2.16	0.58
7:AG:15:GLU:CB	7:AG:19:LEU:HD11	2.33	0.58
7:AG:61:LYS:NZ	7:AG:65:ARG:HD2	2.19	0.58
7:AG:87:GLY:O	7:AG:88:VAL:C	2.42	0.58
9:AI:11:ASN:ND2	9:AI:13:ASN:H	2.02	0.58
9:AI:2:ARG:CZ	9:AI:69:GLU:HB3	2.34	0.58
10:AJ:88:PRO:HG2	10:AJ:152:ALA:HB2	1.85	0.58
10:AJ:36:LYS:CE	10:AJ:36:LYS:HA	2.34	0.58
10:AJ:40:ALA:HB1	12:AL:41:VAL:HG21	1.84	0.58
11:AK:69:ARG:NH1	11:AK:69:ARG:HG3	2.18	0.58
10:AJ:150:ALA:HB2	14:AN:59:TYR:HD2	1.69	0.58
16:AP:100:GLY:O	16:AP:101:GLN:O	2.21	0.58
1:AA:1308:U:H6	16:AP:99:ARG:HH12	1.43	0.58
18:AR:81:LEU:HD23	18:AR:85:LEU:HD13	1.86	0.58
21:AU:46:GLU:CD	21:AU:46:GLU:N	2.57	0.58
21:AU:61:LYS:HA	21:AU:64:ARG:NH1	2.18	0.58
50:B2:13:ILE:HG22	50:B2:14:GLY:H	1.67	0.58
50:B2:5:LYS:HD2	50:B2:5:LYS:C	2.24	0.58
25:BA:2884:U:N3	52:B4:52:TYR:CD1	2.70	0.58
55:B7:26:LYS:HA	55:B7:47:LYS:HG2	1.86	0.58
56:B8:7:VAL:HB	56:B8:36:GLN:OE1	2.04	0.58
25:BA:109:G:C2	25:BA:110:G:H1'	2.39	0.58
25:BA:1142(A):A:C2	25:BA:1143:A:H8	2.19	0.58
25:BA:330:A:H2	25:BA:1210:A:H2'	1.69	0.58
25:BA:1222:C:N4	25:BA:1227:A:N6	2.52	0.58
25:BA:126:A:N7	25:BA:127:A:C4	2.72	0.58
25:BA:1310:G:H2'	25:BA:1311:G:O4'	2.04	0.58
25:BA:1617:C:H2'	25:BA:1617:C:O2	2.02	0.58
25:BA:1668:A:C8	25:BA:1674:G:C5	2.92	0.58
25:BA:1785:A:H2'	25:BA:1786:A:C6	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1800:C:HO2'	25:BA:1802:A:H8	1.52	0.58
25:BA:1890:A:O5'	25:BA:1890:A:H8	1.87	0.58
25:BA:193:U:H4'	25:BA:803:U:O4'	2.02	0.58
25:BA:1947:C:N3	25:BA:1948:G:C8	2.72	0.58
25:BA:1975:G:H2'	25:BA:1976:U:H6	1.69	0.58
25:BA:231:C:C4	25:BA:232:G:C2	2.92	0.58
25:BA:2331:G:H2'	25:BA:2332:U:O4'	2.03	0.58
25:BA:2333:A:O4'	25:BA:2335:A:O4'	2.22	0.58
25:BA:2725:A:O2'	25:BA:2726:U:H6	1.87	0.58
25:BA:2738:A:C2	25:BA:2739:U:H1'	2.39	0.58
25:BA:2756:U:H3	25:BA:2758:A:N6	2.02	0.58
25:BA:2893:G:OP2	25:BA:2893:G:C8	2.57	0.58
25:BA:289:A:O2'	25:BA:351:G:N2	2.37	0.58
25:BA:443:A:C5	30:BF:45:ARG:NH2	2.72	0.58
25:BA:459:U:OP1	54:B6:40:TRP:CD2	2.57	0.58
25:BA:582:G:H2'	25:BA:583:G:H8	1.68	0.58
25:BA:697:C:C2'	25:BA:698:C:H5''	2.34	0.58
25:BA:701:G:C2	25:BA:702:G:C8	2.92	0.58
25:BA:785:G:H2'	25:BA:786:C:H6	1.68	0.58
25:BA:805:G:C2'	25:BA:806:C:OP1	2.51	0.58
25:BA:950:G:C2'	25:BA:951:C:H6	2.00	0.58
25:BA:957:A:C2	25:BA:2459:A:C5'	2.76	0.58
27:BC:10:LEU:HA	27:BC:13:LYS:HG3	1.86	0.58
27:BC:14:VAL:CG1	27:BC:15:ASP:H	2.15	0.58
27:BC:190:ARG:O	27:BC:193:ILE:N	2.37	0.58
28:BD:147:LEU:H	28:BD:154:LYS:HG2	1.67	0.58
30:BF:41:LEU:HG	30:BF:42:ALA:N	2.18	0.58
25:BA:449:A:O2'	30:BF:52:LYS:NZ	2.35	0.58
31:BG:129:GLY:O	31:BG:163:ALA:HB3	2.02	0.58
31:BG:75:LYS:HZ3	31:BG:86:MET:N	2.02	0.58
35:BM:10:GLU:OE2	35:BM:39:ARG:HD2	2.03	0.58
35:BM:15:LEU:HD12	35:BM:130:HIS:CE1	2.37	0.58
36:BN:70:LYS:HG2	36:BN:104:ARG:HG2	1.85	0.58
36:BN:73:ASP:O	41:BS:82:LEU:HD11	2.04	0.58
36:BN:75:SER:CB	41:BS:77:PRO:HG2	2.34	0.58
37:BO:121:LYS:N	37:BO:122:PRO:CD	2.67	0.58
37:BO:136:GLU:HB3	37:BO:137:LYS:NZ	2.19	0.58
25:BA:2415:G:P	37:BO:61:ARG:HE	2.26	0.58
37:BO:69:GLY:O	37:BO:70:GLN:HB3	2.04	0.58
37:BO:99:LEU:O	37:BO:103:ALA:HB3	2.03	0.58
25:BA:2723:C:H4'	39:BQ:2:ARG:C	2.23	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:77:ARG:O	39:BQ:78:LYS:C	2.42	0.58
39:BQ:55:ALA:HA	39:BQ:80:PHE:CE1	2.39	0.58
41:BS:53:ARG:CZ	41:BS:102:ILE:HG13	2.34	0.58
41:BS:82:LEU:O	41:BS:83:ILE:C	2.40	0.58
42:BT:25:TRP:O	42:BT:26:GLY:O	2.21	0.58
43:BU:11:GLN:CD	43:BU:22:VAL:HB	2.24	0.58
43:BU:17:GLY:O	43:BU:19:LYS:HG2	2.04	0.58
25:BA:565:C:OP1	43:BU:82:ARG:HA	2.03	0.58
25:BA:1340:U:C5	45:BW:57:LEU:HD11	2.39	0.58
46:BX:19:LYS:O	46:BX:21:LYS:HG2	2.04	0.58
46:BX:33:LYS:O	46:BX:35:TYR:CD2	2.56	0.58
47:BY:1:MET:HE1	47:BY:61:LEU:HD21	1.86	0.58
48:BZ:47:PRO:HG2	48:BZ:53:MET:CB	2.30	0.58
34:BL:78:ILE:CG2	34:BL:136:VAL:HG11	2.34	0.58
34:BL:51:ALA:HB1	34:BL:80:LYS:HG2	1.84	0.58
25:BA:842:G:H2'	25:BA:843:G:C8	2.39	0.58
1:AA:838:G:N2	1:AA:849:C:C2	2.72	0.58
25:BA:1193:G:O2'	25:BA:1194:A:H5'	2.04	0.58
1:AA:1095:U:H5'	1:AA:1109:C:N3	2.19	0.57
1:AA:1145:C:H1'	1:AA:1146:A:C8	2.38	0.57
1:AA:1300:G:O2'	1:AA:1301:U:P	2.62	0.57
1:AA:270:A:C6	1:AA:271:C:C4	2.92	0.57
1:AA:360:A:N1	1:AA:361:G:C2	2.72	0.57
1:AA:375:U:C3'	19:AS:6:LEU:HD21	2.34	0.57
1:AA:538:G:OP2	15:AO:115:LYS:HD2	2.03	0.57
1:AA:626:U:H2'	1:AA:627:G:H8	1.69	0.57
1:AA:671:G:H2'	1:AA:672:U:H6	1.69	0.57
1:AA:688:G:H2'	1:AA:689:C:H5'	1.84	0.57
1:AA:587:G:C2	1:AA:755:G:C5	2.92	0.57
1:AA:907:A:C2'	1:AA:908:A:H8	2.17	0.57
1:AA:991:U:C4	1:AA:1212:U:O2	2.57	0.57
5:AE:111:ARG:NH1	5:AE:111:ARG:HA	2.06	0.57
5:AE:153:ARG:HH12	5:AE:156:LYS:HG3	1.68	0.57
5:AE:163:PHE:HZ	5:AE:201:ILE:HG12	1.69	0.57
5:AE:74:LYS:HD3	5:AE:75:LYS:N	2.19	0.57
6:AF:142:MET:HG2	6:AF:170:GLN:HG3	1.86	0.57
6:AF:147:LYS:HA	6:AF:147:LYS:HE3	1.86	0.57
6:AF:186:PHE:CD1	6:AF:187:ALA:N	2.72	0.57
7:AG:110:PHE:O	7:AG:161:ASN:ND2	2.35	0.57
7:AG:132:ARG:O	7:AG:133:VAL:HG23	2.04	0.57
7:AG:64:LEU:HD11	7:AG:75:PHE:CZ	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:38:GLU:OE2	9:AI:64:GLN:NE2	2.36	0.57
10:AJ:87:VAL:HG22	10:AJ:151:TYR:O	2.04	0.57
1:AA:1240:U:H2'	10:AJ:32:ARG:HE	1.67	0.57
10:AJ:72:ARG:HB3	10:AJ:72:ARG:HH11	1.69	0.57
13:AM:24:VAL:CG2	13:AM:34:VAL:HG11	2.24	0.57
20:AT:60:ILE:HG23	20:AT:72:ARG:HG3	1.87	0.57
23:AW:26:ASN:CB	23:AW:71:THR:HG22	2.34	0.57
50:B2:10:LYS:HZ3	50:B2:31:LEU:CG	2.17	0.57
25:BA:2056:G:N2	52:B4:4:HIS:O	2.20	0.57
55:B7:33:ASN:O	55:B7:34:TRP:CB	2.50	0.57
25:BA:1178:C:O2'	25:BA:1179:C:H6	1.86	0.57
25:BA:1238:G:N2	25:BA:1239:G:C4	2.72	0.57
25:BA:1268:A:N3	25:BA:1268:A:H2'	2.18	0.57
25:BA:1311:G:O2'	25:BA:1312:U:H1'	2.04	0.57
25:BA:1358:G:N7	25:BA:1371:G:C6	2.72	0.57
25:BA:1359:A:N1	25:BA:1360:A:C4	2.72	0.57
25:BA:1488:G:C6	25:BA:1489:U:H1'	2.39	0.57
25:BA:1496:A:H2	25:BA:1498:C:N4	1.99	0.57
25:BA:1479:G:N2	25:BA:1558:A:OP1	2.37	0.57
25:BA:1633:G:O6	25:BA:1635:G:N2	2.36	0.57
25:BA:150:C:N4	25:BA:176:G:H22	2.02	0.57
25:BA:1800:C:O2'	25:BA:1802:A:O4'	2.22	0.57
25:BA:1843:C:O2'	28:BD:254:THR:HB	2.03	0.57
25:BA:1911:U:O2'	25:BA:1912:A:C5'	2.41	0.57
25:BA:2039:C:C2	25:BA:2040:C:C5	2.92	0.57
25:BA:2157:G:C2	25:BA:2157:G:OP2	2.57	0.57
25:BA:2110:G:N2	25:BA:2180:U:C6	2.72	0.57
25:BA:2345:G:H21	25:BA:2381:C:C3'	2.17	0.57
25:BA:2366:A:H2'	25:BA:2367:G:O4'	2.04	0.57
25:BA:2447:G:N9	25:BA:2501:C:C6	2.72	0.57
25:BA:2456:C:O2'	25:BA:2457:U:H5'	2.03	0.57
25:BA:248:G:N3	25:BA:2431:U:H4'	2.19	0.57
25:BA:2555:U:H5	25:BA:2556:C:N1	2.02	0.57
25:BA:2690:C:C2'	25:BA:2691:C:OP2	2.52	0.57
25:BA:270(D):C:H3'	25:BA:270(E):G:H8	1.69	0.57
25:BA:273(F):C:H5'	25:BA:274:G:OP2	2.04	0.57
25:BA:2758:A:P	25:BA:2759:G:OP2	2.62	0.57
25:BA:27:G:H1'	25:BA:513:A:H62	1.69	0.57
25:BA:304:G:H2'	25:BA:305:U:O4'	2.03	0.57
25:BA:411:G:C4'	25:BA:2407:G:P	2.92	0.57
25:BA:458:G:H5'	54:B6:39:ARG:CZ	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:459:U:HO2'	25:BA:460:A:H8	1.49	0.57
25:BA:548:A:N6	25:BA:549:G:C2	2.72	0.57
25:BA:721:C:H2'	25:BA:722:A:C8	2.38	0.57
25:BA:735:A:N7	25:BA:736:C:C6	2.72	0.57
25:BA:784:A:O2'	25:BA:785:G:C5'	2.52	0.57
25:BA:675:A:C8	25:BA:804:A:N1	2.72	0.57
25:BA:975:G:N3	25:BA:975:G:C2'	2.67	0.57
27:BC:10:LEU:HD13	27:BC:32:LEU:O	2.03	0.57
27:BC:10:LEU:O	27:BC:13:LYS:HB2	2.03	0.57
27:BC:39:GLU:HG3	27:BC:41:VAL:N	2.19	0.57
28:BD:24:ILE:O	28:BD:25:THR:OG1	2.21	0.57
28:BD:60:ARG:HA	28:BD:62:TYR:CE2	2.38	0.57
25:BA:2820:A:H62	29:BE:192:ASN:H	1.52	0.57
25:BA:2787:C:O4'	29:BE:61:ARG:HG3	2.04	0.57
30:BF:123:LEU:O	30:BF:193:VAL:HA	2.04	0.57
30:BF:156:LEU:HG	30:BF:173:VAL:HG23	1.85	0.57
30:BF:37:VAL:O	30:BF:184:TYR:CZ	2.56	0.57
32:BH:124:GLU:C	32:BH:126:PRO:CD	2.73	0.57
32:BH:163:TYR:N	32:BH:163:TYR:CD1	2.72	0.57
33:BK:9:LEU:HB2	33:BK:13:GLY:O	2.04	0.57
35:BM:69:GLN:NE2	35:BM:69:GLN:H	1.93	0.57
36:BN:68:GLU:HG2	36:BN:68:GLU:O	2.04	0.57
36:BN:13:ASN:H	36:BN:94:ARG:HB3	1.68	0.57
37:BO:74:GLU:CB	37:BO:111:ARG:O	2.51	0.57
37:BO:77:ARG:HG2	37:BO:79:ARG:CB	2.34	0.57
38:BP:42:ILE:O	38:BP:94:VAL:CB	2.49	0.57
39:BQ:76:VAL:CG1	39:BQ:77:ARG:N	2.67	0.57
40:BR:13:ARG:CA	40:BR:16:ASN:OD1	2.51	0.57
41:BS:40:THR:H	41:BS:41:ARG:HH21	1.52	0.57
42:BT:105:VAL:HG12	42:BT:106:PHE:H	1.66	0.57
42:BT:59:ARG:HH11	42:BT:59:ARG:HA	1.69	0.57
42:BT:61:TRP:C	42:BT:65:ILE:HD11	2.24	0.57
43:BU:36:PRO:CB	43:BU:61:VAL:HG22	2.33	0.57
25:BA:1614:A:H61	44:BV:87:PRO:HA	1.67	0.57
47:BY:127:LYS:CA	47:BY:164:ALA:H	2.11	0.57
25:BA:1072:C:O5'	25:BA:1073:A:H5'	2.03	0.57
1:AA:562:C:O2'	15:AO:15:ARG:NH1	2.36	0.57
1:AA:750:G:N2	18:AR:23:GLY:O	2.37	0.57
14:AN:114:VAL:CG2	14:AN:115:PRO:HD2	2.32	0.57
34:BL:120:LEU:N	34:BL:120:LEU:HD23	2.19	0.57
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1192:C:H3'	1:AA:1192:C:H6	1.69	0.57
1:AA:1193:G:C8	1:AA:1193:G:H3'	2.40	0.57
1:AA:1261:A:N6	1:AA:1274:G:C1'	2.67	0.57
1:AA:1265:G:O6	1:AA:1266:G:N2	2.37	0.57
1:AA:1271:G:OP1	1:AA:1314:C:C5'	2.47	0.57
1:AA:1276:G:H2'	1:AA:1277:C:O4'	2.04	0.57
1:AA:1305:G:OP1	24:AX:2:GLY:HA3	2.04	0.57
1:AA:1319:A:N7	1:AA:1323:G:C5	2.71	0.57
1:AA:1347:G:H22	1:AA:1373:G:C2'	2.17	0.57
1:AA:1440:C:C6	1:AA:1440:C:OP2	2.58	0.57
1:AA:1460:A:C2	1:AA:1461:G:H1'	2.39	0.57
1:AA:243:A:O2'	1:AA:244:U:OP2	2.16	0.57
1:AA:40:C:C2	1:AA:41:G:C8	2.91	0.57
1:AA:44:G:N2	1:AA:45:U:H1'	2.20	0.57
1:AA:448:A:OP2	1:AA:485:G:N2	2.37	0.57
1:AA:566:G:H8	1:AA:566:G:O5'	1.87	0.57
1:AA:717:C:H4'	14:AN:117:ASN:CB	2.34	0.57
1:AA:781:A:N6	1:AA:802:A:C4	2.72	0.57
1:AA:792:A:C2	1:AA:794:A:C2	2.92	0.57
1:AA:818:G:H3'	1:AA:819:A:C5'	2.34	0.57
1:AA:862:C:N4	1:AA:863:U:O4	2.37	0.57
1:AA:922:G:H5''	8:AH:20:GLN:HE21	1.66	0.57
1:AA:939:G:C5'	10:AJ:102:ARG:HH22	2.16	0.57
1:AA:975:A:H4'	1:AA:976:G:O5'	2.04	0.57
3:AD:59:U:O2	3:AD:59:U:H2'	2.04	0.57
5:AE:70:PHE:CE2	5:AE:163:PHE:HB3	2.38	0.57
5:AE:23:ARG:NH1	5:AE:24:TRP:N	2.46	0.57
6:AF:33:LEU:HD11	17:AQ:54:PRO:HD2	1.85	0.57
7:AG:145:GLU:HB3	7:AG:184:LYS:HG2	1.84	0.57
7:AG:8:VAL:C	7:AG:10:ARG:H	2.05	0.57
1:AA:1240:U:H2'	10:AJ:32:ARG:NE	2.18	0.57
11:AK:102:ARG:NE	11:AK:105:ARG:HH11	2.02	0.57
11:AK:18:ARG:HH11	11:AK:18:ARG:CB	2.18	0.57
11:AK:20:TYR:HD1	11:AK:65:TYR:CE2	2.22	0.57
12:AL:17:VAL:CA	12:AL:63:ILE:HG23	2.32	0.57
12:AL:28:VAL:HG11	12:AL:36:TYR:CB	2.34	0.57
12:AL:4:TYR:CD2	12:AL:88:TYR:HB2	2.39	0.57
13:AM:3:LYS:CD	13:AM:3:LYS:N	2.67	0.57
14:AN:99:GLN:O	14:AN:102:GLY:CA	2.51	0.57
15:AO:33:ARG:O	15:AO:85:ILE:HG22	2.04	0.57
1:AA:659:U:OP1	18:AR:9:GLN:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:53:VAL:HG12	19:AS:78:GLY:O	2.04	0.57
20:AT:11:VAL:O	20:AT:12:SER:CB	2.51	0.57
49:B1:10:LYS:HB2	49:B1:11:LEU:HD12	1.86	0.57
49:B1:30:LEU:HA	49:B1:33:GLN:OE1	2.03	0.57
25:BA:1030:G:C6	25:BA:1125:G:C2	2.92	0.57
25:BA:120:U:O2'	25:BA:121:G:C5'	2.51	0.57
25:BA:147:U:H2'	25:BA:148:C:C6	2.39	0.57
25:BA:1495:A:H2'	25:BA:1496:A:C8	2.39	0.57
25:BA:1518:C:H2'	25:BA:1519:G:O4'	2.05	0.57
25:BA:1572:A:N3	25:BA:1572:A:H2'	2.18	0.57
25:BA:1581:G:H2'	25:BA:1582:C:O4'	2.04	0.57
25:BA:1840:G:N2	25:BA:1841:U:C1'	2.67	0.57
25:BA:2027:G:H2'	25:BA:2028:U:C6	2.39	0.57
25:BA:2046:G:H5'	52:B4:19:ARG:HG3	1.86	0.57
25:BA:2096:U:H2'	25:BA:2097:C:H6	1.69	0.57
25:BA:20:C:H2'	25:BA:21:A:H8	1.69	0.57
25:BA:2262:U:C4'	25:BA:2328:A:C2	2.87	0.57
25:BA:2275:C:O2'	25:BA:2276:G:OP2	2.22	0.57
25:BA:2281:C:HO2'	25:BA:2282:G:C5'	2.17	0.57
25:BA:233:A:H2'	25:BA:234:C:H5'	1.84	0.57
25:BA:2533:A:H2'	25:BA:2534:A:O4'	2.04	0.57
25:BA:2647:U:H2'	25:BA:2648:C:C5	2.38	0.57
25:BA:2756:U:O4'	25:BA:2756:U:P	2.62	0.57
25:BA:2848:G:P	41:BS:99:LEU:HD12	2.43	0.57
25:BA:450:G:O6	25:BA:454:A:OP2	2.21	0.57
25:BA:457:A:C4'	25:BA:459:U:O2	2.51	0.57
25:BA:479:A:O3'	46:BX:63:LYS:NZ	2.29	0.57
25:BA:4:C:H2'	25:BA:5:A:H8	1.68	0.57
25:BA:637:A:C2	25:BA:651:G:C5'	2.63	0.57
25:BA:77:C:H2'	25:BA:78:A:H8	1.69	0.57
25:BA:811:U:C4'	25:BA:1251:C:H1'	2.34	0.57
25:BA:919:G:N3	25:BA:920:G:C8	2.72	0.57
25:BA:923:C:N4	25:BA:924:C:N4	2.52	0.57
25:BA:989:G:H3'	25:BA:989:G:C8	2.38	0.57
26:BB:52:A:N3	26:BB:52:A:H2'	2.18	0.57
28:BD:121:PRO:C	28:BD:135:PHE:CE2	2.77	0.57
28:BD:270:ILE:HG22	28:BD:271:ILE:O	2.04	0.57
28:BD:48:ARG:HH11	28:BD:48:ARG:HB3	1.65	0.57
29:BE:164:ARG:O	29:BE:165:VAL:CG2	2.51	0.57
29:BE:2:LYS:CD	29:BE:83:ASP:HB3	2.35	0.57
29:BE:59:VAL:HG12	29:BE:62:PRO:CD	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:39:TRP:CB	30:BF:101:LEU:HG	2.33	0.57
30:BF:155:LEU:CG	30:BF:189:THR:HG21	2.31	0.57
35:BM:124:ALA:O	35:BM:125:GLY:O	2.22	0.57
35:BM:18:ALA:H	35:BM:21:LYS:NZ	2.01	0.57
35:BM:22:THR:CB	35:BM:61:ARG:HH12	2.16	0.57
36:BN:39:ILE:HD13	36:BN:39:ILE:N	2.18	0.57
37:BO:65:ARG:NH1	37:BO:68:GLN:H	2.02	0.57
37:BO:77:ARG:C	37:BO:79:ARG:N	2.58	0.57
37:BO:81:GLN:CA	37:BO:86:LYS:CG	2.77	0.57
37:BO:99:LEU:HD13	37:BO:101:VAL:CG2	2.34	0.57
38:BP:130:LYS:HZ3	38:BP:130:LYS:HB3	1.67	0.57
25:BA:873:G:H5'	38:BP:66:ILE:CD1	2.34	0.57
38:BP:77:LYS:CE	38:BP:87:LYS:NZ	2.67	0.57
25:BA:1654:A:OP1	39:BQ:3:HIS:CE1	2.57	0.57
40:BR:31:SER:HA	40:BR:97:ARG:NH2	2.20	0.57
40:BR:90:GLY:C	40:BR:92:TYR:H	2.05	0.57
41:BS:26:ASP:CA	41:BS:100:TYR:OH	2.44	0.57
42:BT:63:VAL:O	42:BT:64:ARG:C	2.42	0.57
43:BU:53:GLU:HB3	43:BU:57:VAL:HG21	1.87	0.57
44:BV:35:ILE:HG23	44:BV:36:LEU:N	2.18	0.57
46:BX:47:LYS:HB2	46:BX:49:VAL:CG2	2.27	0.57
47:BY:105:VAL:O	47:BY:140:ASP:CG	2.43	0.57
47:BY:165:VAL:HG12	47:BY:166:SER:N	2.17	0.57
34:BL:76:TYR:C	34:BL:80:LYS:HD3	2.23	0.57
1:AA:435:C:O2'	1:AA:436:C:H5'	2.03	0.57
47:BY:176:PRO:HG3	47:BY:179:ASP:OD2	2.03	0.57
51:B3:13:ARG:O	51:B3:14:ILE:HB	2.03	0.57
10:AJ:126:ASP:HA	10:AJ:131:LYS:CE	2.34	0.57
25:BA:276:A:C2'	25:BA:276:A:N3	2.66	0.57
3:AD:13:C:O2	3:AD:13:C:H2'	2.05	0.57
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.67	0.57
1:AA:1158:C:C2'	1:AA:1158:C:O2	2.52	0.57
1:AA:1239:A:H62	1:AA:1299:A:H61	1.51	0.57
1:AA:1388:C:C2	1:AA:1389:C:C5	2.92	0.57
1:AA:266:G:C3'	20:AT:67:LYS:HD3	2.35	0.57
1:AA:458:C:C2	1:AA:475:G:C2	2.92	0.57
1:AA:51:A:C2	1:AA:116:A:C1'	2.87	0.57
1:AA:610:G:N2	1:AA:611:A:C1'	2.67	0.57
1:AA:646:U:H2'	1:AA:647:C:C6	2.38	0.57
1:AA:828:A:O4'	1:AA:859:A:C2	2.57	0.57
1:AA:933:G:N2	1:AA:935:A:O4'	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:166:ASP:O	5:AE:169:LYS:HB3	2.04	0.57
5:AE:69:LEU:O	5:AE:162:ILE:HB	2.04	0.57
6:AF:142:MET:HG2	6:AF:170:GLN:CD	2.25	0.57
6:AF:153:VAL:HA	6:AF:198:VAL:HG12	1.85	0.57
6:AF:20:SER:HB2	6:AF:40:ARG:HH22	1.69	0.57
7:AG:104:VAL:O	7:AG:105:VAL:C	2.40	0.57
7:AG:146:ILE:HD12	7:AG:146:ILE:H	1.68	0.57
7:AG:98:GLU:HA	7:AG:103:ASN:HD22	1.62	0.57
10:AJ:143:ARG:NH1	10:AJ:144:MET:HG2	2.18	0.57
12:AL:111:ARG:O	12:AL:113:LYS:NZ	2.33	0.57
13:AM:94:VAL:HG12	13:AM:95:GLU:N	2.14	0.57
14:AN:83:ILE:HD12	14:AN:83:ILE:N	2.19	0.57
16:AP:23:TYR:CE2	16:AP:70:LEU:HD13	2.39	0.57
1:AA:1330:U:H4'	16:AP:23:TYR:OH	2.03	0.57
19:AS:20:VAL:CG1	19:AS:21:VAL:H	2.15	0.57
19:AS:54:GLU:C	19:AS:54:GLU:CD	2.59	0.57
21:AU:53:ARG:HH22	21:AU:60:GLY:CA	2.16	0.57
24:AX:7:ARG:O	24:AX:12:LYS:HD3	2.04	0.57
49:B1:19:LEU:HD11	49:B1:55:LEU:HG	1.86	0.57
25:BA:989:G:P	50:B2:12:PRO:HG3	2.44	0.57
50:B2:41:PRO:CG	50:B2:44:ARG:HH11	2.14	0.57
25:BA:517:C:OP1	52:B4:16:ARG:NH1	2.38	0.57
53:B5:9:LEU:HA	53:B5:27:LYS:HA	1.85	0.57
25:BA:1612:C:H5''	54:B6:5:TRP:CD1	2.39	0.57
55:B7:6:THR:HG23	55:B7:9:GLY:CA	2.34	0.57
25:BA:108:U:O2'	25:BA:109:G:O5'	2.17	0.57
25:BA:1189:A:H5''	37:BO:29:LYS:NZ	2.19	0.57
25:BA:126:A:N7	25:BA:127:A:C6	2.72	0.57
25:BA:1731:G:N3	25:BA:1731:G:H3'	2.20	0.57
25:BA:1819:A:N3	25:BA:1821:A:N1	2.53	0.57
25:BA:2056:G:N2	25:BA:2057:A:C4	2.72	0.57
25:BA:2171:A:O2'	25:BA:2172:U:O4'	2.21	0.57
25:BA:2208:U:HO2'	25:BA:2209:C:H5'	1.68	0.57
25:BA:221:A:H2	25:BA:233:A:C4	2.22	0.57
25:BA:2226:C:H2'	25:BA:2227:A:O4'	2.04	0.57
25:BA:2286:A:H4'	25:BA:2287:A:N3	2.19	0.57
25:BA:2356:C:O2'	48:BZ:20:ARG:NE	2.37	0.57
25:BA:2705:A:C2'	25:BA:2706:G:O5'	2.52	0.57
25:BA:2810:A:O2'	25:BA:2811:G:H5'	2.04	0.57
25:BA:487:C:C6	25:BA:487:C:H3'	2.39	0.57
25:BA:50:U:C6	25:BA:50:U:C3'	2.88	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:72:U:OP2	45:BW:3:THR:N	2.37	0.57
25:BA:781:A:O2'	28:BD:222:ARG:NH2	2.37	0.57
25:BA:943:U:C3'	25:BA:943:U:C6	2.88	0.57
26:BB:7:G:C4'	40:BR:29:PHE:CE2	2.86	0.57
27:BC:73:ARG:HB3	27:BC:93:TYR:HE2	1.69	0.57
28:BD:111:LEU:CB	28:BD:115:GLN:NE2	2.67	0.57
28:BD:12:SER:HA	28:BD:22:SER:O	2.05	0.57
25:BA:783:A:H3'	28:BD:227:ASN:HD21	1.68	0.57
29:BE:110:GLY:HA2	29:BE:161:GLY:C	2.24	0.57
29:BE:13:ARG:O	29:BE:20:ALA:O	2.22	0.57
29:BE:48:GLN:CD	29:BE:48:GLN:N	2.57	0.57
30:BF:31:HIS:ND1	37:BO:11:GLY:N	2.52	0.57
31:BG:163:ALA:HB1	31:BG:169:ALA:CB	2.33	0.57
32:BH:122:THR:HG22	32:BH:123:PHE:N	2.19	0.57
33:BK:35:LEU:N	33:BK:35:LEU:CD2	2.67	0.57
35:BM:123:TYR:CG	35:BM:129:PRO:HB2	2.40	0.57
35:BM:3:THR:O	35:BM:4:TYR:HB2	2.04	0.57
25:BA:2562:U:O2'	36:BN:23:ARG:NE	2.37	0.57
37:BO:97:PRO:CD	37:BO:102:ARG:CZ	2.82	0.57
37:BO:135:LEU:O	37:BO:138:LEU:HB3	2.04	0.57
37:BO:55:ARG:O	37:BO:56:SER:HB2	2.02	0.57
37:BO:72:PRO:HB3	37:BO:110:TYR:CG	2.39	0.57
38:BP:104:PHE:N	38:BP:104:PHE:CD1	2.72	0.57
41:BS:27:THR:O	41:BS:28:VAL:C	2.43	0.57
42:BT:36:ARG:HB2	42:BT:40:PHE:HE1	1.67	0.57
42:BT:50:ARG:HE	43:BU:75:PHE:HE2	1.51	0.57
42:BT:66:ASN:HA	42:BT:76:TYR:HE1	1.69	0.57
42:BT:84:LYS:NZ	42:BT:90:VAL:HG11	2.19	0.57
42:BT:83:LEU:HD11	42:BT:95:LEU:HD12	1.86	0.57
43:BU:20:LEU:HB3	43:BU:95:LEU:HD13	1.85	0.57
43:BU:66:ARG:CZ	43:BU:95:LEU:HD12	2.33	0.57
44:BV:36:LEU:HD23	44:BV:51:LEU:CD2	2.35	0.57
45:BW:68:ARG:NH1	45:BW:68:ARG:HB3	2.20	0.57
46:BX:47:LYS:HZ3	46:BX:51:VAL:HG21	1.63	0.57
47:BY:125:LEU:HD22	47:BY:127:LYS:HE2	1.87	0.57
47:BY:110:GLY:HA3	47:BY:144:LEU:HB3	1.86	0.57
25:BA:1072:C:N4	25:BA:1100:C:N4	2.52	0.57
34:BL:18:THR:HG23	34:BL:38:VAL:CG1	2.26	0.57
1:AA:1447:G:O5'	1:AA:1447:G:H8	1.88	0.57
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.69	0.57
1:AA:90:C:O2'	1:AA:91:C:C5'	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:18:VAL:O	15:AO:19:ARG:CG	2.52	0.57
1:AA:748:C:H6	1:AA:748:C:O5'	1.85	0.57
15:AO:103:GLY:HA2	15:AO:108:ALA:HA	1.84	0.57
4:A1:25:A:C2	8:AH:15:ARG:HB2	2.39	0.57
1:AA:1101:A:O2'	1:AA:1102:A:H8	1.86	0.57
1:AA:1307:U:H6	1:AA:1307:U:O5'	1.87	0.57
1:AA:1237:C:C4'	1:AA:1334:G:N2	2.67	0.57
1:AA:1433:A:N1	1:AA:1434:A:N3	2.52	0.57
1:AA:266:G:H8	20:AT:67:LYS:NZ	1.88	0.57
1:AA:306:G:H2'	1:AA:307:C:H6	1.69	0.57
1:AA:458:C:C4	1:AA:475:G:C6	2.92	0.57
1:AA:558:G:C5	1:AA:559:A:C2	2.93	0.57
1:AA:654:G:H1	1:AA:754:C:N4	2.03	0.57
1:AA:831:U:H2'	1:AA:832:C:C6	2.38	0.57
1:AA:922:G:O2'	1:AA:923:A:H5'	2.04	0.57
1:AA:955:U:H2'	1:AA:956:U:C6	2.39	0.57
1:AA:990:C:H2'	1:AA:991:U:O4'	2.05	0.57
2:AC:68:C:H2'	2:AC:69:C:C6	2.39	0.57
5:AE:115:LEU:HD22	5:AE:149:LEU:HD13	1.86	0.57
6:AF:25:GLY:N	6:AF:28:GLN:NE2	2.52	0.57
6:AF:63:ASN:O	6:AF:99:VAL:HG12	2.05	0.57
7:AG:129:ASN:OD1	7:AG:144:ASP:HB3	2.04	0.57
8:AH:151:LEU:HD13	11:AK:65:TYR:O	2.04	0.57
1:AA:923:A:OP1	8:AH:21:ALA:CB	2.50	0.57
8:AH:39:GLY:O	8:AH:69:VAL:HG23	2.04	0.57
9:AI:78:GLU:O	9:AI:81:ILE:CD1	2.53	0.57
10:AJ:140:ASP:O	10:AJ:144:MET:HG3	2.03	0.57
10:AJ:149:ARG:HG2	14:AN:59:TYR:OH	2.04	0.57
10:AJ:12:LEU:HB2	10:AJ:24:THR:HG21	1.86	0.57
10:AJ:27:ILE:HG23	10:AJ:43:PHE:CB	2.35	0.57
11:AK:97:VAL:HG13	11:AK:98:LYS:N	2.19	0.57
12:AL:67:GLY:C	12:AL:73:GLN:NE2	2.58	0.57
13:AM:4:ILE:HG12	13:AM:99:LYS:O	2.05	0.57
14:AN:54:ARG:O	14:AN:57:THR:N	2.37	0.57
16:AP:3:ARG:CZ	31:BG:113:ARG:HB3	2.34	0.57
18:AR:76:GLU:HG3	18:AR:77:ARG:H	1.69	0.57
19:AS:19:ILE:O	19:AS:36:ILE:O	2.23	0.57
19:AS:21:VAL:HG23	19:AS:34:GLU:O	2.04	0.57
19:AS:4:ILE:CG1	19:AS:66:PRO:HB3	2.33	0.57
20:AT:55:ASP:HB3	20:AT:57:VAL:CG1	2.34	0.57
23:AW:44:ALA:HB1	23:AW:92:LEU:CG	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:6:ARG:HG3	24:AX:7:ARG:H	1.69	0.57
51:B3:51:ASP:O	51:B3:52:THR:OG1	2.17	0.57
37:BO:45:LEU:CD1	55:B7:59:LYS:HZ1	2.18	0.57
25:BA:1106:G:N1	25:BA:1107:G:N1	2.52	0.57
25:BA:1210:A:C4'	25:BA:1211:U:O5'	2.52	0.57
25:BA:1363:C:C2'	25:BA:1363:C:O2	2.53	0.57
25:BA:1363:C:O2'	25:BA:1810:A:O4'	2.23	0.57
25:BA:1369:G:O2'	25:BA:1370:C:H5'	2.04	0.57
25:BA:1470:G:C1'	25:BA:1522:G:N2	2.67	0.57
25:BA:1530:G:H22	25:BA:1541:U:C2'	2.17	0.57
25:BA:1698:A:O2'	25:BA:1699:G:C3'	2.51	0.57
25:BA:1731:G:H2'	25:BA:1732:A:OP2	2.04	0.57
25:BA:1747:G:C2	25:BA:1748:G:C8	2.93	0.57
25:BA:1843:C:C2	25:BA:1844:C:C5	2.92	0.57
25:BA:1857:G:N2	25:BA:1884:A:N6	2.52	0.57
25:BA:1861:G:N2	25:BA:1862:G:H1'	2.19	0.57
25:BA:1906:G:C4	25:BA:1929:G:C5	2.92	0.57
25:BA:1977:A:C2	25:BA:1978:A:N9	2.71	0.57
25:BA:213:A:C2'	25:BA:214:G:H5'	2.34	0.57
25:BA:2127:G:C6	25:BA:2162:G:C6	2.92	0.57
25:BA:2246:G:O2'	25:BA:2247:A:H5'	2.05	0.57
25:BA:2350:C:C2'	25:BA:2351:G:O5'	2.52	0.57
25:BA:2357:U:O2'	25:BA:2359:C:OP2	2.17	0.57
25:BA:2373:G:C2	25:BA:2374:C:N3	2.73	0.57
25:BA:259:G:H1'	25:BA:621:A:HO2'	1.65	0.57
25:BA:2616:C:H2'	25:BA:2617:C:H6	1.68	0.57
25:BA:2685:G:C2	25:BA:2686:G:N7	2.72	0.57
25:BA:2714:G:C5	25:BA:2715:C:C5	2.92	0.57
25:BA:2815:C:O2'	52:B4:42:PRO:CG	2.53	0.57
25:BA:2832:U:C4'	25:BA:2832:U:OP1	2.48	0.57
25:BA:468:G:O6	25:BA:469:G:N2	2.36	0.57
25:BA:513:A:C2	25:BA:514:A:H8	2.22	0.57
25:BA:590:A:C2	25:BA:591:C:C2	2.93	0.57
25:BA:605:C:H2'	25:BA:606:U:C6	2.39	0.57
25:BA:607:U:C5'	25:BA:607:U:H6	2.17	0.57
25:BA:686:G:C4'	25:BA:687:C:OP2	2.52	0.57
25:BA:785:G:C2	25:BA:786:C:C5	2.92	0.57
25:BA:820:A:H1'	25:BA:943:U:C2	2.39	0.57
25:BA:932:G:N2	25:BA:933:A:C6	2.72	0.57
27:BC:32:LEU:HD13	27:BC:220:PRO:HG2	1.85	0.57
27:BC:59:ARG:HG3	27:BC:60:GLY:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:118:VAL:O	28:BD:129:ASN:CA	2.44	0.57
28:BD:134:ARG:HG2	28:BD:187:GLY:C	2.24	0.57
28:BD:177:LEU:CD2	28:BD:183:ARG:H	2.13	0.57
28:BD:159:ALA:CB	28:BD:202:LYS:HE3	2.33	0.57
28:BD:5:LYS:NZ	28:BD:31:LYS:NZ	2.52	0.57
28:BD:87:ASN:O	28:BD:88:ARG:HB2	2.04	0.57
30:BF:154:VAL:HG21	30:BF:193:VAL:HG21	1.87	0.57
30:BF:188:ARG:HB2	30:BF:188:ARG:HH21	1.68	0.57
31:BG:137:GLU:CA	31:BG:153:ARG:HG2	2.18	0.57
31:BG:74:LYS:CG	31:BG:75:LYS:HG3	2.34	0.57
32:BH:6:ARG:HB2	32:BH:6:ARG:CZ	2.34	0.57
32:BH:89:ILE:HG12	32:BH:94:TYR:CD2	2.39	0.57
35:BM:42:TRP:HZ3	42:BT:71:GLN:HE22	1.53	0.57
36:BN:52:VAL:HG23	36:BN:53:LYS:N	2.19	0.57
36:BN:92:GLU:OE1	36:BN:114:ILE:HB	2.04	0.57
37:BO:114:ILE:HG23	37:BO:122:PRO:O	2.03	0.57
38:BP:22:LYS:NZ	38:BP:24:GLY:N	2.52	0.57
38:BP:42:ILE:CG2	38:BP:95:ALA:HB3	2.34	0.57
25:BA:871:U:H5'	38:BP:9:TYR:CE2	2.40	0.57
39:BQ:105:ARG:NE	39:BQ:105:ARG:CA	2.62	0.57
40:BR:62:LYS:HB3	40:BR:65:VAL:HG13	1.86	0.57
42:BT:58:ARG:NH1	42:BT:58:ARG:CB	2.66	0.57
42:BT:88:ILE:H	43:BU:52:VAL:HG23	1.68	0.57
43:BU:68:LYS:NZ	43:BU:95:LEU:HD11	2.19	0.57
46:BX:2:ARG:HE	46:BX:3:VAL:N	2.01	0.57
46:BX:46:LYS:HE3	46:BX:52:SER:HB2	1.85	0.57
46:BX:43:ASN:ND2	46:BX:57:GLN:HB3	2.19	0.57
33:BK:57:ARG:HB2	33:BK:57:ARG:CZ	2.34	0.57
25:BA:1083:U:O2	25:BA:1083:U:H2'	2.04	0.57
2:AC:27:U:H2'	2:AC:28:C:C6	2.40	0.57
26:BB:116:G:H2'	26:BB:117:G:H1'	1.85	0.57
1:AA:1010:G:H2'	1:AA:1011:G:H8	1.69	0.57
27:BC:148:ASN:HD22	27:BC:152:ILE:HG13	1.70	0.57
1:AA:1542:U:O2	1:AA:1542:U:H2'	2.02	0.57
1:AA:1064:G:N3	1:AA:1066:C:C4	2.72	0.57
1:AA:1169:A:C2	1:AA:1170:A:C2	2.91	0.57
1:AA:1198:G:C2'	1:AA:1199:U:H5'	2.34	0.57
1:AA:1200:C:C5'	1:AA:1202:G:P	2.91	0.57
1:AA:1230:C:O2'	1:AA:1231:G:H5'	2.04	0.57
1:AA:1239:A:C8	1:AA:1241:G:H1'	2.33	0.57
1:AA:1324:A:C2	1:AA:1325:C:C6	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:135:C:C6	1:AA:135:C:H3'	2.39	0.57
1:AA:791:G:N2	1:AA:1498:U:OP1	2.38	0.57
1:AA:1507:A:H2'	1:AA:1508:G:H8	1.69	0.57
1:AA:411:A:C6	1:AA:429:U:C4	2.92	0.57
1:AA:468:A:N7	1:AA:474:G:N7	2.52	0.57
1:AA:486:U:H2'	1:AA:487:A:O5'	2.04	0.57
1:AA:688:G:C4	1:AA:700:G:N2	2.73	0.57
1:AA:922:G:H21	1:AA:923:A:C1'	2.17	0.57
1:AA:970:C:H5'	1:AA:972:C:C6	2.39	0.57
2:AC:44:A:N1	2:AC:45:G:N3	2.53	0.57
2:AC:18:G:C4	2:AC:58:A:N3	2.73	0.57
2:AC:8:U:O4'	2:AC:48:C:O2'	2.22	0.57
3:AD:1:G:N1	3:AD:73:A:C6	2.73	0.57
3:AD:34:G:N3	3:AD:35:A:H5''	2.19	0.57
5:AE:92:TYR:HE2	5:AE:151:GLY:HA2	1.69	0.57
5:AE:69:LEU:O	5:AE:162:ILE:HA	2.04	0.57
5:AE:22:LYS:O	5:AE:23:ARG:C	2.43	0.57
6:AF:99:VAL:HG23	6:AF:100:ALA:N	2.18	0.57
6:AF:205:GLY:O	6:AF:206:GLU:CB	2.48	0.57
6:AF:24:ALA:HB1	6:AF:28:GLN:OE1	2.04	0.57
8:AH:11:ILE:CG2	8:AH:31:LEU:HD13	2.34	0.57
8:AH:135:THR:O	8:AH:136:MET:C	2.41	0.57
8:AH:76:ILE:CG2	8:AH:142:LEU:HD22	2.34	0.57
8:AH:98:THR:HB	8:AH:117:ASP:HA	1.84	0.57
9:AI:37:VAL:HA	9:AI:65:VAL:HB	1.86	0.57
9:AI:41:GLU:HB2	9:AI:62:TRP:CE3	2.40	0.57
1:AA:1250:A:OP1	12:AL:66:ARG:HD2	2.04	0.57
15:AO:7:ILE:CD1	15:AO:7:ILE:H	1.98	0.57
21:AU:63:GLN:HA	21:AU:66:LEU:HG	1.85	0.57
23:AW:51:GLU:HA	23:AW:54:LYS:CE	2.34	0.57
49:B1:3:LYS:C	49:B1:6:GLU:HG2	2.24	0.57
50:B2:25:ALA:C	50:B2:27:GLY:N	2.56	0.57
50:B2:2:PRO:HB2	50:B2:39:ASP:HB2	1.87	0.57
52:B4:11:THR:HG23	52:B4:15:ARG:CD	2.34	0.57
25:BA:1115:G:N2	25:BA:1116:C:C2	2.73	0.57
25:BA:1025:G:H8	25:BA:1134:G:C1'	2.17	0.57
25:BA:1178:C:C2'	25:BA:1179:C:C6	2.88	0.57
25:BA:117:G:H5'	25:BA:126:A:C4	2.39	0.57
25:BA:1243:G:C2	25:BA:1244:G:C4	2.92	0.57
25:BA:1264:G:H3'	25:BA:1265:A:C5'	2.33	0.57
25:BA:1292:U:O2'	25:BA:1293:C:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:12:U:O2	25:BA:2627:G:OP1	2.22	0.57
25:BA:1351:C:C2	25:BA:1352:U:C5	2.91	0.57
25:BA:1420:U:C6	25:BA:1420:U:O5'	2.58	0.57
25:BA:1592:C:O2'	25:BA:1593:G:H5'	2.05	0.57
25:BA:1631:A:H2'	25:BA:1632:A:C8	2.38	0.57
25:BA:1326:U:O4	25:BA:1648:C:H1'	2.04	0.57
25:BA:1809:A:H2'	25:BA:1810:A:H5'	1.86	0.57
25:BA:1813:G:O2'	28:BD:46:GLN:HG2	2.03	0.57
25:BA:1960:A:H2'	25:BA:1960:A:N3	2.18	0.57
25:BA:2010:G:C5	25:BA:2011:U:C5	2.93	0.57
25:BA:2016:U:O2	25:BA:2017:U:C2	2.58	0.57
25:BA:2020:A:C2'	25:BA:2021:C:H5''	2.29	0.57
25:BA:2039:C:H2'	25:BA:2040:C:C6	2.40	0.57
25:BA:2056:G:H2'	25:BA:2057:A:O4'	2.05	0.57
25:BA:215:G:H4'	25:BA:216:A:C4'	2.31	0.57
25:BA:2168:G:N2	25:BA:2170:A:C3'	2.67	0.57
25:BA:2209:C:O2'	25:BA:2210:G:H2'	2.04	0.57
25:BA:2286:A:H5'	25:BA:2287:A:OP1	2.04	0.57
25:BA:2325:G:H2'	25:BA:2326:C:C6	2.38	0.57
25:BA:2384:G:OP2	25:BA:2384:G:O4'	2.23	0.57
25:BA:2405:G:H2'	25:BA:2411:A:H61	1.68	0.57
25:BA:2522:U:C2'	25:BA:2543:G:H22	2.18	0.57
25:BA:2528:U:O2	25:BA:2530:A:OP1	2.23	0.57
25:BA:2555:U:H6	25:BA:2555:U:H3'	1.70	0.57
25:BA:2644:G:H1	25:BA:2645:G:H21	1.50	0.57
25:BA:2699:C:HO2'	25:BA:2700:C:H5'	1.67	0.57
25:BA:270(Q):C:C2	25:BA:270(R):G:C8	2.92	0.57
25:BA:2747:G:O2'	32:BH:67:LEU:HD13	2.05	0.57
25:BA:302:C:C2	25:BA:303:U:C5	2.92	0.57
25:BA:306:U:O4	25:BA:310:A:N7	2.37	0.57
25:BA:385:C:O2'	25:BA:386:G:P	2.63	0.57
25:BA:412:A:H2'	25:BA:413:C:O4'	2.03	0.57
25:BA:443:A:C8	30:BF:45:ARG:CZ	2.87	0.57
25:BA:564:C:H5	25:BA:573:G:OP1	1.87	0.57
25:BA:55:G:O2'	25:BA:56:A:H5'	2.04	0.57
25:BA:577:G:H2'	25:BA:578:A:C8	2.39	0.57
25:BA:624:C:H3'	25:BA:624:C:C6	2.40	0.57
25:BA:628:G:N2	25:BA:629:G:C4	2.73	0.57
25:BA:741:G:H2'	25:BA:742:G:C8	2.39	0.57
25:BA:811:U:HO2'	25:BA:812:C:P	2.27	0.57
25:BA:917:A:H2'	25:BA:918:A:C4'	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:963:U:H2'	25:BA:964:C:C6	2.39	0.57
27:BC:153:ILE:HG23	27:BC:156:ILE:HD12	1.87	0.57
29:BE:36:ARG:HB2	29:BE:79:ARG:HH11	1.68	0.57
30:BF:169:ASN:OD1	30:BF:171:PRO:HG2	2.04	0.57
30:BF:64:ILE:HG21	30:BF:78:ILE:CG2	2.34	0.57
31:BG:26:GLN:NE2	31:BG:31:VAL:CG1	2.68	0.57
32:BH:149:ARG:HG2	32:BH:153:LYS:HD2	1.86	0.57
32:BH:171:LEU:HA	32:BH:172:LYS:NZ	2.19	0.57
32:BH:7:LEU:C	32:BH:69:ARG:HH11	2.08	0.57
33:BK:11:ASN:O	33:BK:13:GLY:N	2.37	0.57
35:BM:127:ASP:CA	35:BM:129:PRO:HD2	2.33	0.57
35:BM:86:PRO:HD2	35:BM:89:LYS:HD2	1.87	0.57
25:BA:2780:G:H1	35:BM:97:ARG:NH1	2.00	0.57
36:BN:10:VAL:HG11	36:BN:14:THR:CG2	2.33	0.57
36:BN:59:LYS:HA	36:BN:86:ILE:CB	2.23	0.57
38:BP:34:LEU:CA	38:BP:131:ILE:HG12	2.21	0.57
38:BP:16:ARG:NH1	38:BP:73:PRO:HD3	2.18	0.57
41:BS:29:ARG:HG2	41:BS:51:ARG:CG	2.34	0.57
42:BT:108:GLU:CB	42:BT:111:GLU:CD	2.68	0.57
42:BT:15:LYS:CA	42:BT:18:LEU:HD21	2.34	0.57
42:BT:34:LYS:O	42:BT:38:THR:OG1	2.22	0.57
42:BT:61:TRP:O	42:BT:62:ILE:C	2.42	0.57
43:BU:33:VAL:HB	43:BU:64:HIS:CD2	2.36	0.57
43:BU:5:VAL:N	43:BU:12:TYR:CD2	2.73	0.57
44:BV:82:LEU:CD1	44:BV:84:ARG:HG3	2.34	0.57
44:BV:88:ARG:O	44:BV:89:ALA:HB3	2.04	0.57
46:BX:108:THR:O	46:BX:109:GLU:OE1	2.23	0.57
46:BX:97:ARG:NE	46:BX:101:LYS:HE2	2.19	0.57
47:BY:31:ARG:CZ	47:BY:31:ARG:HB2	2.33	0.57
47:BY:59:LEU:HD21	47:BY:66:SER:CB	2.34	0.57
33:BK:129:THR:O	33:BK:129:THR:HG23	2.05	0.57
34:BL:37:PHE:HE2	34:BL:66:THR:N	2.02	0.57
34:BL:27:LEU:CD2	34:BL:57:ILE:HD11	2.31	0.57
7:AG:47:ARG:HB2	7:AG:47:ARG:HH11	1.68	0.57
26:BB:89(A):A:H2'	26:BB:90:C:C5'	2.27	0.57
1:AA:1097:C:H5'	1:AA:1170:A:H4'	1.86	0.57
1:AA:114:U:O2'	1:AA:115:G:H5'	2.04	0.57
1:AA:1188:A:H3'	1:AA:1189:C:C5	2.39	0.57
1:AA:118:U:C5	1:AA:288:A:C2	2.93	0.57
1:AA:1208:C:O2'	1:AA:1209:C:H5'	2.05	0.57
1:AA:1286:A:C5'	24:AX:25:LYS:HE2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1406:U:H1'	1:AA:1518:A:C4'	2.35	0.57
1:AA:20:U:C5	1:AA:916:G:C2	2.92	0.57
1:AA:522:C:N4	1:AA:523:A:C6	2.72	0.57
1:AA:564:C:C5	1:AA:565:U:C5	2.93	0.57
1:AA:594:G:H2'	1:AA:595:G:C1'	2.35	0.57
1:AA:607:A:N3	1:AA:608:A:C1'	2.68	0.57
1:AA:730:G:O2'	1:AA:766:A:O4'	2.22	0.57
1:AA:754:C:C2'	1:AA:754:C:O2	2.53	0.57
1:AA:950:U:O2	1:AA:951:G:C8	2.58	0.57
1:AA:981:U:C2	1:AA:982:U:C4	2.92	0.57
5:AE:102:LEU:HD21	5:AE:173:ALA:HB1	1.86	0.57
5:AE:239:VAL:O	5:AE:240:GLN:CG	2.53	0.57
5:AE:53:ARG:NH2	5:AE:199:TYR:CE2	2.72	0.57
6:AF:7:PRO:O	6:AF:10:PHE:HB3	2.05	0.57
7:AG:152:SER:C	7:AG:154:ASN:H	2.07	0.57
7:AG:185:PHE:CE2	7:AG:187:ARG:O	2.53	0.57
7:AG:31:CYS:O	7:AG:33:MET:CG	2.52	0.57
7:AG:61:LYS:CA	7:AG:203:VAL:HG22	2.34	0.57
9:AI:52:ILE:HG22	9:AI:53:ALA:N	2.19	0.57
9:AI:78:GLU:O	9:AI:81:ILE:HD12	2.04	0.57
10:AJ:49:ILE:HG22	10:AJ:125:MET:HE3	1.85	0.57
11:AK:38:ILE:HD13	11:AK:38:ILE:N	2.15	0.57
11:AK:88:LYS:N	11:AK:88:LYS:NZ	2.43	0.57
11:AK:8:ASP:O	11:AK:12:ARG:HG2	2.05	0.57
12:AL:98:PRO:C	12:AL:100:GLY:N	2.57	0.57
14:AN:42:TRP:HZ3	14:AN:47:VAL:HG22	1.68	0.57
14:AN:15:ALA:O	14:AN:79:SER:HB3	2.04	0.57
15:AO:83:VAL:HG23	15:AO:104:VAL:O	2.04	0.57
15:AO:75:HIS:CG	15:AO:76:ASN:H	2.22	0.57
1:AA:1225:A:H5''	16:AP:103:THR:OG1	2.04	0.57
16:AP:14:ARG:H	16:AP:44:ARG:CD	2.18	0.57
1:AA:1202:G:H4'	17:AQ:29:ARG:HE	1.69	0.57
20:AT:57:VAL:HG21	20:AT:73:VAL:CG1	2.35	0.57
9:AI:94:GLN:HB3	21:AU:32:ARG:HH21	1.69	0.57
23:AW:42:GLN:HE21	23:AW:42:GLN:CA	2.16	0.57
49:B1:12:SER:O	49:B1:16:LEU:HB3	2.05	0.57
49:B1:8:ALA:O	49:B1:9:ARG:C	2.42	0.57
50:B2:17:LYS:O	50:B2:20:LYS:N	2.36	0.57
25:BA:2286:A:H61	53:B5:28:ARG:CA	2.17	0.57
53:B5:19:ARG:CB	53:B5:43:CYS:SG	2.92	0.57
25:BA:469:G:N1	54:B6:40:TRP:HZ2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B6:34:ARG:HH21	54:B6:42:LEU:HA	1.69	0.57
25:BA:1006:C:C2	25:BA:1137:G:N2	2.72	0.57
25:BA:1209:G:O5'	25:BA:1209:G:H8	1.88	0.57
25:BA:1324:G:N2	25:BA:1331:A:N3	2.52	0.57
25:BA:1334:G:H5''	45:BW:65:ARG:NH2	2.16	0.57
25:BA:134:C:H2'	25:BA:135:G:C5'	2.35	0.57
25:BA:142:G:H2'	25:BA:143:C:C6	2.40	0.57
25:BA:1441:G:C2	25:BA:1442:G:C8	2.93	0.57
25:BA:171:G:H2'	25:BA:172:C:C4	2.40	0.57
25:BA:1786:A:C2'	25:BA:1787:A:O5'	2.52	0.57
25:BA:1804:C:H41	25:BA:1814:G:N2	2.02	0.57
25:BA:1803:A:N6	25:BA:1814:G:O2'	2.29	0.57
25:BA:1952:A:H8	25:BA:1952:A:H3'	1.69	0.57
25:BA:1935:G:C2'	25:BA:1962:C:N4	2.68	0.57
25:BA:1996:C:O2	25:BA:1997:G:H4'	2.05	0.57
25:BA:2007:C:H4'	25:BA:2824:C:O2'	2.05	0.57
25:BA:2093:G:C5	25:BA:2225:A:C8	2.93	0.57
25:BA:2228:G:C8	25:BA:2229:C:C6	2.93	0.57
25:BA:2249:U:O2'	25:BA:2275:C:C2	2.57	0.57
25:BA:2346:A:H4'	25:BA:2383:G:O4'	2.04	0.57
25:BA:2682:U:H3	29:BE:21:VAL:HG11	1.69	0.57
25:BA:2690:C:C6	25:BA:2690:C:C3'	2.87	0.57
25:BA:2748:A:N7	25:BA:2749:A:N6	2.52	0.57
25:BA:2829:C:O2'	25:BA:2830:G:O5'	2.22	0.57
25:BA:321:G:H5'	30:BF:136:THR:HG23	1.85	0.57
25:BA:487:C:N4	25:BA:488:G:C6	2.72	0.57
25:BA:625:G:H1	37:BO:100:LEU:CB	2.17	0.57
25:BA:666:G:C2	25:BA:667:U:C2	2.92	0.57
25:BA:752:A:H62	25:BA:1781:C:C1'	2.15	0.57
25:BA:774:A:C8	25:BA:775:G:N7	2.73	0.57
25:BA:880:G:C4	25:BA:881:G:H1'	2.40	0.57
25:BA:898:C:N4	25:BA:899:A:C8	2.73	0.57
28:BD:136:ILE:HD12	28:BD:168:ARG:NH1	2.19	0.57
28:BD:275:LYS:HG2	28:BD:275:LYS:O	2.05	0.57
28:BD:5:LYS:HZ2	28:BD:31:LYS:HZ2	1.51	0.57
28:BD:80:ALA:HB2	28:BD:96:HIS:HD1	1.69	0.57
29:BE:197:ILE:HB	29:BE:199:ARG:CZ	2.34	0.57
29:BE:37:ARG:HA	29:BE:44:TYR:CD2	2.39	0.57
30:BF:89:VAL:CG1	30:BF:90:PHE:N	2.63	0.57
31:BG:14:GLU:C	31:BG:17:PRO:HD2	2.24	0.57
32:BH:157:TYR:CD1	32:BH:158:HIS:N	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:161:GLY:CA	32:BH:163:TYR:HE1	2.18	0.57
32:BH:89:ILE:HG12	32:BH:94:TYR:CE2	2.40	0.57
33:BK:38:LEU:CD1	33:BK:39:ALA:HB3	2.35	0.57
36:BN:3:GLN:NE2	36:BN:33:ALA:O	2.29	0.57
36:BN:34:THR:HG22	36:BN:35:VAL:N	2.19	0.57
37:BO:48:PRO:O	37:BO:51:PHE:HB2	2.04	0.57
38:BP:75:THR:HG22	38:BP:77:LYS:HG3	1.85	0.57
39:BQ:17:ARG:HG2	39:BQ:18:LEU:N	2.19	0.57
39:BQ:88:ARG:C	39:BQ:89:ASP:CG	2.63	0.57
41:BS:17:THR:HG21	41:BS:20:PRO:N	2.19	0.57
41:BS:31:SER:HA	41:BS:32:TYR:CE1	2.39	0.57
44:BV:28:SER:O	44:BV:32:ALA:CB	2.52	0.57
46:BX:52:SER:CB	46:BX:56:PRO:HB2	2.24	0.57
34:BL:128:ALA:HB1	34:BL:132:ARG:HH21	1.69	0.57
1:AA:1446:A:O2'	1:AA:1447:G:OP1	2.22	0.57
1:AA:85:U:H2'	1:AA:86:U:O4'	2.05	0.57
1:AA:87:A:N7	1:AA:88:C:N3	2.52	0.57
1:AA:1077:G:H1'	1:AA:1081:G:N2	2.20	0.57
1:AA:1113:C:H6	1:AA:1113:C:O5'	1.87	0.57
1:AA:1129:C:H4'	1:AA:1130:A:H8	1.69	0.57
1:AA:1206:G:C2	1:AA:1207:G:C4	2.92	0.57
1:AA:1299:A:N7	1:AA:1301:U:C1'	2.68	0.57
1:AA:130:A:O2'	1:AA:131:C:OP2	2.20	0.57
1:AA:1371:G:OP2	12:AL:11:LYS:NZ	2.22	0.57
1:AA:1510:U:C2	1:AA:1526:G:N2	2.72	0.57
1:AA:20:U:O2	1:AA:20:U:H2'	2.04	0.57
1:AA:20:U:O4'	1:AA:572:A:C2	2.58	0.57
1:AA:327:A:O3'	1:AA:328:C:O4'	2.23	0.57
1:AA:411:A:C6	1:AA:429:U:C5	2.93	0.57
1:AA:640:A:H2'	1:AA:641:U:O4'	2.04	0.57
1:AA:64:G:N2	1:AA:67:C:N4	2.52	0.57
1:AA:806:C:H2'	1:AA:807:A:H8	1.70	0.57
1:AA:873:A:H5'	1:AA:874:G:OP2	2.05	0.57
1:AA:985:C:H2'	1:AA:986:A:H8	1.70	0.57
2:AC:10:G:C2	2:AC:11:A:N7	2.73	0.57
5:AE:25:ASN:HD22	5:AE:26:PRO:N	2.03	0.57
6:AF:40:ARG:HG3	6:AF:40:ARG:HH11	1.70	0.57
6:AF:59:ARG:HH21	6:AF:64:VAL:HA	1.68	0.57
7:AG:68:TYR:HE1	7:AG:114:ARG:HH12	1.52	0.57
7:AG:61:LYS:HZ1	7:AG:65:ARG:CD	2.17	0.57
9:AI:10:LEU:H	9:AI:10:LEU:HD23	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:79:LEU:CB	9:AI:88:VAL:HG21	2.33	0.57
11:AK:118:VAL:HG12	11:AK:119:LEU:N	2.19	0.57
11:AK:4:ASP:OD2	11:AK:7:ALA:CB	2.53	0.57
13:AM:3:LYS:CA	13:AM:3:LYS:HE3	2.34	0.57
14:AN:65:ALA:HB1	14:AN:98:LEU:CD2	2.35	0.57
15:AO:77:LEU:HA	15:AO:81:SER:OG	2.04	0.57
16:AP:114:ARG:HG2	16:AP:114:ARG:NH1	2.20	0.57
16:AP:3:ARG:NH1	31:BG:113:ARG:O	2.38	0.57
17:AQ:10:ALA:HA	17:AQ:12:ARG:NE	2.12	0.57
18:AR:71:GLN:HA	18:AR:75:PRO:CA	2.35	0.57
23:AW:34:LYS:HB3	23:AW:38:LYS:HE3	1.86	0.57
50:B2:56:VAL:HG13	50:B2:56:VAL:O	2.04	0.57
50:B2:5:LYS:HZ2	50:B2:59:VAL:HG22	1.70	0.57
53:B5:20:ASN:HD22	53:B5:41:PRO:CG	2.17	0.57
53:B5:25:LYS:CG	55:B7:35:GLN:HG3	2.34	0.57
54:B6:34:ARG:NH2	54:B6:42:LEU:CG	2.66	0.57
56:B8:9:ARG:HH21	56:B8:16:VAL:CG1	2.17	0.57
25:BA:1176:G:C8	25:BA:1177:A:O4'	2.58	0.57
25:BA:1479:G:H2'	25:BA:1480:G:C8	2.40	0.57
25:BA:1491:G:N2	25:BA:1493:C:C5	2.73	0.57
25:BA:1472:A:N1	25:BA:1518:C:N4	2.53	0.57
25:BA:162:U:C5'	25:BA:163:U:OP2	2.46	0.57
25:BA:1667:G:O3'	36:BN:7:TYR:OH	2.22	0.57
25:BA:179:G:C8	25:BA:180:G:N7	2.73	0.57
25:BA:1827:C:H2'	25:BA:1828:G:H5'	1.85	0.57
25:BA:182:A:N3	25:BA:433:C:O2'	2.34	0.57
25:BA:1844:C:OP1	28:BD:255:LYS:HA	2.04	0.57
25:BA:1871:A:H2'	25:BA:1872:A:H8	1.68	0.57
25:BA:2013:A:C2'	25:BA:2014:A:O5'	2.53	0.57
25:BA:2110:G:N1	25:BA:2180:U:C4	2.73	0.57
25:BA:2378:A:N1	25:BA:2379:G:H1'	2.19	0.57
25:BA:249:C:OP2	25:BA:2394:C:O2'	2.23	0.57
25:BA:2569:G:C2	25:BA:2570:G:N7	2.73	0.57
25:BA:2777:G:H4'	25:BA:2778:A:C5'	2.33	0.57
25:BA:326:G:C4	25:BA:327:G:C8	2.93	0.57
25:BA:356:G:H3'	25:BA:357:A:H8	1.70	0.57
25:BA:270(A):A:H2'	25:BA:370:G:H5''	1.86	0.57
25:BA:414:C:H1'	25:BA:1864:U:O2'	2.05	0.57
25:BA:265:A:N7	25:BA:428:A:N6	2.53	0.57
25:BA:458:G:C5'	54:B6:39:ARG:CZ	2.82	0.57
25:BA:458:G:H1'	25:BA:469:G:O6	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:458:G:H3'	54:B6:39:ARG:CB	2.35	0.57
25:BA:530:G:O2'	25:BA:531:C:O5'	2.19	0.57
25:BA:759:G:H2'	25:BA:760:G:C8	2.38	0.57
25:BA:77:C:H6	25:BA:77:C:OP2	1.88	0.57
25:BA:839:U:H1'	25:BA:940:G:N2	2.19	0.57
25:BA:899:A:H61	25:BA:900:A:N6	2.02	0.57
25:BA:970:C:H2'	25:BA:971:C:H6	1.68	0.57
25:BA:99:U:H5'	25:BA:101:G:H5''	1.85	0.57
27:BC:14:VAL:CG1	27:BC:15:ASP:N	2.68	0.57
27:BC:19:ILE:HG23	27:BC:223:ARG:HG2	1.84	0.57
27:BC:91:ALA:HB2	27:BC:153:ILE:HG21	1.84	0.57
28:BD:168:ARG:HG2	28:BD:173:VAL:CG1	2.33	0.57
28:BD:54:ARG:CG	28:BD:218:ARG:HB3	2.34	0.57
29:BE:112:GLY:C	29:BE:113:PHE:CD1	2.78	0.57
29:BE:121:ASN:O	29:BE:123:ALA:N	2.38	0.57
29:BE:175:VAL:HG23	29:BE:175:VAL:O	2.05	0.57
29:BE:103:ASP:OD2	29:BE:201:THR:N	2.37	0.57
30:BF:155:LEU:HG	30:BF:189:THR:CG2	2.33	0.57
30:BF:43:LYS:HZ1	30:BF:100:THR:HG23	1.70	0.57
25:BA:2305:A:C2'	31:BG:154:GLY:HA2	2.35	0.57
32:BH:26:VAL:HB	32:BH:75:ALA:HB1	1.85	0.57
32:BH:5:GLY:O	32:BH:6:ARG:CZ	2.52	0.57
35:BM:140:VAL:HG12	35:BM:140:VAL:OXT	2.03	0.57
35:BM:22:THR:HG23	35:BM:25:ARG:CD	2.09	0.57
36:BN:59:LYS:CE	36:BN:59:LYS:N	2.66	0.57
25:BA:1667:G:H4'	36:BN:7:TYR:OH	2.04	0.57
25:BA:2484:G:C1'	38:BP:124:LYS:HD3	2.19	0.57
40:BR:38:GLN:CD	40:BR:40:ILE:HD11	2.24	0.57
40:BR:28:VAL:CG1	40:BR:90:GLY:HA2	2.35	0.57
41:BS:53:ARG:NH1	41:BS:103:ARG:HA	2.20	0.57
41:BS:37:GLY:HA3	41:BS:43:GLN:HA	1.86	0.57
41:BS:81:PRO:O	41:BS:82:LEU:C	2.43	0.57
42:BT:112:ARG:NH2	43:BU:49:THR:HG22	2.20	0.57
42:BT:10:ARG:O	42:BT:11:ARG:C	2.40	0.57
42:BT:42:ALA:O	42:BT:45:TYR:HB2	2.04	0.57
43:BU:12:TYR:CE1	43:BU:14:VAL:CB	2.87	0.57
45:BW:7:VAL:HG13	45:BW:7:VAL:O	2.05	0.57
46:BX:47:LYS:CD	46:BX:49:VAL:HG21	2.33	0.57
47:BY:105:VAL:C	47:BY:107:THR:N	2.58	0.57
26:BB:2:C:H6	26:BB:2:C:OP2	1.88	0.57
26:BB:22:U:H6	26:BB:22:U:O5'	1.88	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:25:C:O2'	1:AA:524:G:N2	2.38	0.57
1:AA:1215:G:N3	1:AA:1215:G:H2'	2.20	0.57
1:AA:224:C:H2'	1:AA:225:C:C6	2.39	0.57
1:AA:246:A:O2'	1:AA:247:G:P	2.62	0.57
1:AA:30:U:O2'	1:AA:31:G:OP1	2.21	0.57
1:AA:32:A:N6	1:AA:553:A:N6	2.52	0.57
1:AA:390:C:H2'	1:AA:391:G:C8	2.35	0.57
1:AA:42:G:C4	1:AA:43:C:C5	2.93	0.57
1:AA:919:A:C6	1:AA:920:U:O4	2.57	0.57
5:AE:118:LEU:HD22	5:AE:142:LEU:HD12	1.87	0.57
6:AF:10:PHE:CZ	6:AF:175:LEU:O	2.58	0.57
6:AF:142:MET:O	6:AF:145:GLY:O	2.22	0.57
7:AG:8:VAL:C	7:AG:10:ARG:N	2.57	0.57
8:AH:14:ARG:O	8:AH:14:ARG:HG3	2.03	0.57
8:AH:52:PRO:HD2	8:AH:53:LEU:HD23	1.87	0.57
9:AI:11:ASN:ND2	9:AI:12:PRO:HD2	2.20	0.57
9:AI:14:LEU:O	9:AI:15:ASP:HB3	2.05	0.57
9:AI:52:ILE:HD13	9:AI:87:ARG:HE	1.69	0.57
9:AI:45:LEU:HB3	9:AI:58:GLY:O	2.05	0.57
8:AH:79:GLU:O	11:AK:104:ARG:NH1	2.37	0.57
14:AN:23:ALA:CB	14:AN:28:THR:HG23	2.33	0.57
14:AN:85:ARG:HH11	14:AN:85:ARG:HG3	1.68	0.57
15:AO:41:ARG:HG2	15:AO:42:THR:H	1.70	0.57
17:AQ:13:THR:O	17:AQ:15:LYS:N	2.38	0.57
1:AA:667:G:H5'	18:AR:51:HIS:CD2	2.39	0.57
18:AR:9:GLN:O	18:AR:12:ILE:N	2.38	0.57
21:AU:18:ARG:HG2	21:AU:18:ARG:HH11	1.69	0.57
21:AU:61:LYS:HA	21:AU:64:ARG:HH12	1.68	0.57
23:AW:46:GLU:OE2	23:AW:48:LYS:HD3	2.05	0.57
49:B1:20:VAL:CB	49:B1:55:LEU:HD23	2.34	0.57
45:BW:5:TYR:HB3	49:B1:24:LYS:HD3	1.85	0.57
51:B3:17:GLY:HA2	51:B3:33:VAL:CB	2.34	0.57
53:B5:19:ARG:HD3	53:B5:19:ARG:N	2.13	0.57
53:B5:20:ASN:ND2	53:B5:42:TRP:HD1	2.02	0.57
25:BA:458:G:O2'	54:B6:40:TRP:CE2	2.52	0.57
25:BA:1184:G:O2'	25:BA:1185:C:C5'	2.52	0.57
25:BA:1249:U:C4	37:BO:21:ARG:NH2	2.72	0.57
25:BA:1302:A:H3'	25:BA:1303:G:H5'	1.85	0.57
25:BA:1530:G:H22	25:BA:1541:U:H2'	1.68	0.57
25:BA:1786:A:H8	25:BA:1786:A:P	2.27	0.57
25:BA:1869:G:N3	25:BA:1878:G:C6	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2367:G:O2'	25:BA:2368:C:H5'	2.04	0.57
25:BA:2061:G:O4'	25:BA:2503:A:C2	2.58	0.57
25:BA:2586:C:H2'	25:BA:2587:A:C8	2.40	0.57
25:BA:268:C:C2	25:BA:269:U:C6	2.93	0.57
25:BA:2733:A:H2	29:BE:204:ALA:CB	2.17	0.57
25:BA:2735:G:C6	25:BA:2770:G:N2	2.73	0.57
25:BA:274:G:H2'	25:BA:275:G:H5'	1.87	0.57
25:BA:2739:U:H5	25:BA:2763:G:C6	2.23	0.57
25:BA:2767:C:N4	25:BA:2768:C:H41	2.03	0.57
25:BA:2816:C:C2	25:BA:2817:G:C8	2.93	0.57
25:BA:308:G:C2	25:BA:309:G:C1'	2.87	0.57
25:BA:330:A:O2'	25:BA:1210:A:N6	2.38	0.57
25:BA:448:U:C4	25:BA:583:G:H1'	2.40	0.57
25:BA:566:U:OP2	43:BU:82:ARG:NE	2.38	0.57
25:BA:616:A:H1'	30:BF:180:GLY:CA	2.34	0.57
25:BA:632:A:C2	25:BA:633:A:N3	2.72	0.57
25:BA:745:G:H2'	25:BA:746:A:O4'	2.04	0.57
25:BA:814:C:N3	25:BA:815:C:C5	2.73	0.57
25:BA:824:A:H3'	25:BA:825:C:C6	2.40	0.57
25:BA:887:A:H4'	25:BA:889:C:H5''	1.87	0.57
25:BA:943:U:H2'	25:BA:944:G:OP1	2.04	0.57
25:BA:97:C:C4	25:BA:98:G:N7	2.73	0.57
26:BB:70:C:C2	26:BB:71:C:C6	2.93	0.57
28:BD:159:ALA:HB2	28:BD:202:LYS:HZ1	1.68	0.57
28:BD:181:GLU:OE2	28:BD:271:ILE:N	2.37	0.57
29:BE:114:ALA:CB	29:BE:118:LYS:CB	2.78	0.57
30:BF:118:ALA:HB1	30:BF:122:LYS:HG2	1.87	0.57
30:BF:202:PHE:O	30:BF:205:ARG:HB2	2.05	0.57
30:BF:39:TRP:CG	30:BF:40:GLN:N	2.72	0.57
31:BG:59:GLU:OE2	31:BG:152:LEU:HB2	2.05	0.57
33:BK:5:LEU:CD1	33:BK:17:GLN:HB2	2.35	0.57
35:BM:44:PRO:HG2	35:BM:45:ASN:H	1.69	0.57
36:BN:122:LEU:OXT	41:BS:74:ARG:NH1	2.38	0.57
36:BN:18:LYS:NZ	36:BN:44:LYS:NZ	2.52	0.57
36:BN:21:CYS:SG	36:BN:39:ILE:HB	2.44	0.57
37:BO:128:HIS:ND1	37:BO:129:ALA:N	2.47	0.57
37:BO:15:ARG:O	37:BO:17:LYS:NZ	2.36	0.57
38:BP:26:TYR:N	38:BP:102:VAL:HB	2.19	0.57
38:BP:58:PHE:C	38:BP:60:ARG:H	2.08	0.57
38:BP:75:THR:HG22	38:BP:77:LYS:CG	2.34	0.57
39:BQ:84:ALA:HB3	39:BQ:85:PRO:HD3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:10:VAL:O	41:BS:14:TYR:CD1	2.58	0.57
41:BS:54:ARG:CD	41:BS:100:TYR:HB3	2.34	0.57
41:BS:64:ARG:HH21	41:BS:77:PRO:HB2	1.70	0.57
42:BT:58:ARG:CZ	42:BT:58:ARG:CB	2.82	0.57
42:BT:89:GLU:HB3	43:BU:51:VAL:CA	2.35	0.57
42:BT:98:LEU:HD22	42:BT:101:ARG:CD	2.35	0.57
43:BU:21:ARG:O	43:BU:93:GLU:CD	2.43	0.57
42:BT:88:ILE:HB	43:BU:52:VAL:C	2.24	0.57
44:BV:11:ARG:HA	44:BV:100:THR:HA	1.86	0.57
44:BV:13:SER:C	44:BV:16:LYS:HZ1	2.08	0.57
45:BW:20:GLY:C	45:BW:25:LYS:O	2.43	0.57
45:BW:33:LYS:H	45:BW:77:LYS:NZ	2.02	0.57
46:BX:22:GLY:CA	46:BX:73:ARG:NH1	2.67	0.57
48:BZ:43:THR:O	48:BZ:43:THR:HG22	2.04	0.57
48:BZ:38:VAL:HG23	48:BZ:59:LEU:HB2	1.87	0.57
1:AA:1041:A:C6	1:AA:1042:G:N7	2.73	0.57
1:AA:1188:A:H4'	17:AQ:58:LYS:HZ3	1.70	0.57
1:AA:1287:A:C6	1:AA:1288:A:N6	2.72	0.57
1:AA:1468:A:H2'	1:AA:1469:G:C5'	2.34	0.57
1:AA:1526:G:H2'	1:AA:1527:C:H6	1.70	0.57
1:AA:152:A:N6	1:AA:169:C:N3	2.53	0.57
1:AA:187:C:H3'	1:AA:188:U:H6	1.70	0.57
1:AA:225:C:C2'	1:AA:226:G:C5'	2.83	0.57
1:AA:109:A:C2	1:AA:327:A:N1	2.73	0.57
1:AA:564:C:N4	1:AA:565:U:O4	2.38	0.57
1:AA:590:C:O3'	11:AK:30:ARG:NH2	2.37	0.57
1:AA:690:G:C2	1:AA:691:G:H1'	2.40	0.57
1:AA:744:C:H2'	1:AA:745:C:C6	2.40	0.57
5:AE:163:PHE:HD2	5:AE:164:VAL:N	2.03	0.57
5:AE:88:ALA:HB1	5:AE:222:ILE:HD11	1.87	0.57
7:AG:191:ARG:HE	7:AG:191:ARG:CA	2.17	0.57
7:AG:30:LYS:CA	7:AG:34:GLU:HB3	2.35	0.57
7:AG:79:PHE:HE1	7:AG:204:ILE:HG23	1.68	0.57
8:AH:114:GLY:C	8:AH:115:VAL:HG22	2.24	0.57
9:AI:11:ASN:HD22	9:AI:86:ARG:HH22	1.53	0.57
9:AI:95:GLU:N	9:AI:95:GLU:CD	2.57	0.57
1:AA:642:A:HO2'	11:AK:31:PHE:HE1	1.49	0.57
14:AN:44:SER:H	14:AN:47:VAL:CG2	2.17	0.57
14:AN:48:ILE:HG23	14:AN:63:LEU:CD1	2.33	0.57
16:AP:13:LYS:O	16:AP:18:ALA:HB2	2.04	0.57
19:AS:27:LYS:NZ	19:AS:27:LYS:H	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:93:GLN:O	20:AT:95:TYR:N	2.38	0.57
22:AV:18:LYS:O	22:AV:22:LEU:HB3	2.05	0.57
22:AV:77:THR:HG23	22:AV:78:ARG:N	2.20	0.57
22:AV:79:THR:O	22:AV:80:TYR:O	2.23	0.57
1:AA:325:A:OP2	23:AW:70:SER:CB	2.53	0.57
49:B1:44:LYS:O	49:B1:48:LEU:CB	2.47	0.57
50:B2:4:LEU:HD12	50:B2:39:ASP:OD1	2.05	0.57
52:B4:12:SER:OG	52:B4:13:LYS:HG2	2.05	0.57
52:B4:51:TYR:CD1	52:B4:55:ARG:N	2.71	0.57
25:BA:1022:G:C5	25:BA:1139:G:C6	2.93	0.57
25:BA:1258:C:C2	25:BA:1259:G:C8	2.93	0.57
25:BA:1264:G:O6	25:BA:1265:A:C6	2.57	0.57
25:BA:1334:G:C6	25:BA:1335:U:O4	2.58	0.57
25:BA:1387:C:H2'	25:BA:1388:G:H8	1.70	0.57
25:BA:1433:U:O2	25:BA:1561:G:C2	2.58	0.57
25:BA:1477:A:C2	25:BA:1516:U:O2	2.57	0.57
25:BA:1891:G:H3'	25:BA:1892:C:C6	2.34	0.57
25:BA:1914:C:C2'	25:BA:1914:C:O2	2.40	0.57
25:BA:1996:C:C4'	25:BA:1996:C:C6	2.88	0.57
25:BA:2020:A:OP2	42:BT:27:LEU:HB3	2.04	0.57
25:BA:2207:C:H2'	25:BA:2208:U:C5'	2.35	0.57
25:BA:2302:G:H2'	25:BA:2303:G:H8	1.69	0.57
25:BA:2335:A:N7	25:BA:2337:G:C6	2.73	0.57
25:BA:2619:C:C2'	25:BA:2620:C:O5'	2.53	0.57
25:BA:2657:A:N6	25:BA:2664:G:H21	2.01	0.57
25:BA:26:G:N1	25:BA:27:G:C2	2.73	0.57
25:BA:2792:G:C2	25:BA:2793:G:C5	2.93	0.57
25:BA:291:C:C5	25:BA:292:C:C5	2.93	0.57
25:BA:411:G:H2'	25:BA:413:C:H41	1.69	0.57
25:BA:445:C:OP1	42:BT:2:PRO:CB	2.42	0.57
25:BA:511:U:C4	25:BA:512:G:N3	2.72	0.57
25:BA:548:A:C5	25:BA:549:G:H1'	2.40	0.57
25:BA:563:G:N2	25:BA:564:C:C2	2.73	0.57
25:BA:616:A:O2'	25:BA:617:G:C1'	2.53	0.57
25:BA:643:A:H1'	25:BA:644:A:N7	2.20	0.57
25:BA:680:G:H2'	25:BA:681:G:H8	1.69	0.57
25:BA:739:G:H2'	25:BA:1784:A:C6	2.36	0.57
25:BA:858:U:C5	25:BA:859:G:N2	2.73	0.57
25:BA:898:C:C5'	25:BA:899:A:OP2	2.49	0.57
25:BA:569:U:C5'	25:BA:946:G:H1'	2.34	0.57
26:BB:24:G:O5'	26:BB:24:G:H8	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:163:PHE:N	27:BC:163:PHE:CD2	2.71	0.57
25:BA:2179:C:C1'	27:BC:168:THR:HG21	2.35	0.57
27:BC:163:PHE:CZ	27:BC:195:ALA:HB3	2.39	0.57
28:BD:13:ARG:NH1	28:BD:22:SER:CB	2.65	0.57
28:BD:5:LYS:CE	28:BD:31:LYS:HZ1	2.17	0.57
28:BD:68:LYS:O	28:BD:69:ARG:CB	2.52	0.57
28:BD:85:ASP:OD2	28:BD:88:ARG:HB2	2.05	0.57
25:BA:1818:U:OP1	28:BD:88:ARG:HG2	2.03	0.57
29:BE:136:ARG:NH1	29:BE:137:HIS:O	2.38	0.57
29:BE:105:THR:C	29:BE:196:VAL:HG13	2.25	0.57
30:BF:121:GLY:HA2	30:BF:191:ARG:NH1	2.15	0.57
30:BF:8:GLN:O	30:BF:9:ILE:HD12	2.04	0.57
31:BG:128:ARG:O	31:BG:128:ARG:NE	2.37	0.57
31:BG:153:ARG:O	31:BG:154:GLY:C	2.43	0.57
32:BH:15:VAL:HG21	32:BH:79:VAL:HG21	1.87	0.57
33:BK:4:ILE:HG12	33:BK:38:LEU:HA	1.86	0.57
35:BM:26:LEU:HG	35:BM:30:ILE:HD11	1.87	0.57
36:BN:77:ILE:N	36:BN:78:ARG:HH22	2.03	0.57
37:BO:124:LYS:CE	37:BO:141:ALA:HB3	2.35	0.57
38:BP:22:LYS:CD	38:BP:23:GLY:N	2.63	0.57
38:BP:27:VAL:O	38:BP:28:ALA:HB2	2.05	0.57
39:BQ:14:SER:O	39:BQ:17:ARG:HG2	2.04	0.57
39:BQ:21:TYR:CD2	39:BQ:21:TYR:N	2.72	0.57
41:BS:67:SER:HB3	41:BS:105:LEU:CD2	2.34	0.57
41:BS:9:LEU:O	41:BS:12:SER:N	2.38	0.57
42:BT:70:ARG:HD3	42:BT:75:ASN:OD1	2.05	0.57
45:BW:27:THR:CA	45:BW:80:ILE:HG23	2.34	0.57
25:BA:923:C:O4'	48:BZ:26:TYR:CD1	2.57	0.57
34:BL:124:ALA:O	34:BL:127:ILE:HB	2.05	0.57
27:BC:71:GLN:OE1	27:BC:72:VAL:HG23	2.05	0.57
1:AA:1198:G:O2'	1:AA:1199:U:H5'	2.05	0.57
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.20	0.57
1:AA:130:A:OP2	1:AA:189:U:C4	2.58	0.57
1:AA:320:C:O2'	1:AA:321:A:C5'	2.53	0.57
1:AA:518:C:O2'	1:AA:519:C:P	2.63	0.57
1:AA:739:C:C2'	1:AA:740:U:H5'	2.35	0.57
1:AA:790:A:H2'	1:AA:791:G:O5'	2.05	0.57
1:AA:894:G:H2'	1:AA:895:G:C8	2.37	0.57
2:AC:19:G:H5'	2:AC:20:U:OP2	2.05	0.57
3:AD:73:A:C2'	3:AD:74:C:H5''	2.25	0.57
5:AE:131:PRO:HB2	5:AE:134:GLU:HG2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:161:ALA:HA	5:AE:183:PRO:CB	2.33	0.57
6:AF:139:GLN:O	6:AF:143:GLU:HB2	2.05	0.57
7:AG:120:LEU:HG	7:AG:121:VAL:N	2.20	0.57
1:AA:404:U:O4	7:AG:2:GLY:N	2.38	0.57
7:AG:61:LYS:HG3	7:AG:207:TYR:CZ	2.40	0.57
8:AH:78:HIS:CD2	8:AH:78:HIS:H	2.23	0.57
9:AI:94:GLN:N	9:AI:94:GLN:NE2	2.53	0.57
11:AK:36:LEU:HD23	11:AK:36:LEU:N	2.11	0.57
11:AK:67:PRO:C	11:AK:68:ARG:O	2.40	0.57
11:AK:77:GLU:OE2	11:AK:78:GLN:N	2.37	0.57
12:AL:113:LYS:H	12:AL:113:LYS:CD	2.15	0.57
12:AL:49:PRO:HG3	12:AL:81:ILE:HB	1.87	0.57
16:AP:9:ILE:HD12	16:AP:9:ILE:O	2.05	0.57
17:AQ:39:LEU:HB2	17:AQ:44:LEU:HB2	1.86	0.57
18:AR:6:GLU:N	18:AR:6:GLU:OE2	2.22	0.57
19:AS:6:LEU:CD2	19:AS:17:TYR:CD2	2.88	0.57
19:AS:44:THR:CG2	19:AS:45:THR:N	2.55	0.57
21:AU:18:ARG:HH22	21:AU:21:LYS:CB	2.16	0.57
21:AU:50:ILE:O	21:AU:50:ILE:HG22	2.05	0.57
24:AX:14:TRP:CH2	24:AX:15:ARG:CZ	2.88	0.57
51:B3:62:ARG:O	51:B3:65:ASP:OD1	2.23	0.57
52:B4:9:LYS:O	52:B4:10:LYS:CB	2.53	0.57
55:B7:54:GLU:O	55:B7:57:ARG:HB3	2.04	0.57
56:B8:17:ILE:HD12	56:B8:26:ILE:CG1	2.35	0.57
25:BA:1178:C:C2	25:BA:1179:C:H5	2.21	0.57
25:BA:1229:G:C6	25:BA:1230:C:C2	2.93	0.57
25:BA:136:G:H2'	25:BA:137:C:H6	1.70	0.57
25:BA:1424:G:C2	25:BA:1425:G:O4'	2.57	0.57
25:BA:1634:A:HO2'	25:BA:1635:G:P	2.28	0.57
25:BA:1664:A:N7	25:BA:1664:A:OP2	2.38	0.57
25:BA:1695:G:H2'	25:BA:1696:G:C5'	2.28	0.57
25:BA:154:G:H1	25:BA:173:G:H1	1.50	0.57
25:BA:1754:C:N3	25:BA:1755:A:C4	2.73	0.57
25:BA:1799:G:H2'	25:BA:1800:C:O5'	2.04	0.57
25:BA:1942:C:OP2	25:BA:1942:C:H3'	2.04	0.57
25:BA:1993:U:H2'	25:BA:1994:C:H5'	1.87	0.57
25:BA:2106:G:C6	25:BA:2184:G:C6	2.93	0.57
25:BA:2107:C:H2'	25:BA:2108:C:H6	1.70	0.57
25:BA:2286:A:N6	53:B5:32:ASN:HA	2.19	0.57
25:BA:2416:C:N3	25:BA:2417:C:C5	2.73	0.57
25:BA:2587:A:C8	25:BA:2587:A:O5'	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2686:G:C2	25:BA:2687:U:C6	2.92	0.57
25:BA:2730:C:H4'	29:BE:169:ASN:O	2.03	0.57
25:BA:324:A:H2	25:BA:325:G:C4	2.22	0.57
25:BA:498:G:C2'	25:BA:499:U:H5'	2.32	0.57
25:BA:543:C:C2	25:BA:551:G:C2	2.93	0.57
25:BA:558:G:H2'	25:BA:559:G:H5'	1.87	0.57
25:BA:575:A:H2'	25:BA:576:U:H5'	1.83	0.57
25:BA:573:G:H5'	25:BA:576:U:O4	2.03	0.57
25:BA:605:C:O2'	25:BA:606:U:H5'	2.05	0.57
25:BA:627:A:N1	25:BA:637:A:H1'	2.20	0.57
25:BA:666:G:H2'	25:BA:667:U:H6	1.70	0.57
25:BA:78:A:H2'	25:BA:79:G:C8	2.38	0.57
25:BA:806:C:H2'	25:BA:807:U:C6	2.37	0.57
25:BA:807:U:O2'	25:BA:808:G:H5'	2.02	0.57
26:BB:43:C:H4'	31:BG:98:ARG:NH1	2.18	0.57
26:BB:37:C:N3	26:BB:49:C:O4'	2.38	0.57
27:BC:117:PRO:HD3	27:BC:146:GLY:C	2.25	0.57
27:BC:30:LYS:HZ2	27:BC:182:PRO:HD3	1.63	0.57
28:BD:134:ARG:HG2	28:BD:187:GLY:O	2.05	0.57
28:BD:149:PRO:O	28:BD:150:LYS:HB2	2.04	0.57
28:BD:169:GLU:O	28:BD:172:TYR:O	2.22	0.57
28:BD:15:PHE:H	28:BD:20:ASP:HB3	1.69	0.57
28:BD:32:SER:O	28:BD:33:LEU:O	2.22	0.57
29:BE:119:ARG:HH12	29:BE:155:LYS:HD2	1.70	0.57
29:BE:46:ALA:HB2	29:BE:85:ASN:CG	2.26	0.57
30:BF:177:ALA:N	30:BF:178:PRO:CD	2.68	0.57
16:AP:3:ARG:CD	31:BG:140:ILE:HB	2.31	0.57
32:BH:89:ILE:CG2	32:BH:131:VAL:CG1	2.82	0.57
32:BH:89:ILE:HD12	32:BH:161:GLY:O	2.05	0.57
32:BH:77:LYS:HA	32:BH:80:SER:OG	2.05	0.57
35:BM:43:THR:CB	35:BM:44:PRO:CD	2.77	0.57
35:BM:23:LEU:HD21	35:BM:62:VAL:HA	1.87	0.57
36:BN:13:ASN:HB3	36:BN:94:ARG:CB	2.34	0.57
36:BN:3:GLN:OE1	36:BN:3:GLN:O	2.23	0.57
36:BN:89:ASN:O	36:BN:90:GLN:HB2	2.05	0.57
37:BO:121:LYS:H	37:BO:122:PRO:HD3	1.70	0.57
25:BA:1189:A:H5''	37:BO:29:LYS:HZ2	1.70	0.57
38:BP:65:PHE:O	38:BP:66:ILE:CG1	2.52	0.57
42:BT:47:TYR:C	42:BT:51:LYS:HE2	2.26	0.57
43:BU:72:VAL:O	43:BU:88:ARG:HG3	2.03	0.57
25:BA:566:U:OP2	43:BU:82:ARG:CD	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:10:VAL:HG23	44:BV:12:ILE:HD11	1.87	0.57
44:BV:4:LYS:HD3	44:BV:4:LYS:H	1.70	0.57
45:BW:47:PHE:HE2	45:BW:89:ILE:HA	1.70	0.57
46:BX:9:LYS:HB2	46:BX:110:GLU:CD	2.25	0.57
47:BY:114:GLY:C	47:BY:116:VAL:N	2.53	0.57
47:BY:6:LYS:HA	47:BY:37:VAL:CG1	2.32	0.57
48:BZ:72:ARG:CB	48:BZ:75:LEU:HD13	2.30	0.57
33:BK:123:LEU:HD12	33:BK:144:VAL:CG1	2.30	0.57
1:AA:85:U:H2'	1:AA:86:U:H5'	1.86	0.57
6:AF:160:ALA:C	6:AF:162:GLN:N	2.56	0.57
32:BH:20:ALA:HB1	32:BH:21:PRO:HD3	1.87	0.57
1:AA:1081:G:OP2	8:AH:27:ARG:CD	2.52	0.56
1:AA:1257:U:O2'	1:AA:1258:G:OP2	2.22	0.56
1:AA:171:A:O5'	1:AA:171:A:H8	1.88	0.56
1:AA:242:C:H2'	1:AA:243:A:H5'	1.87	0.56
1:AA:283:C:C2'	1:AA:283:C:O2	2.53	0.56
1:AA:428:G:H5'	1:AA:430:A:C1'	2.35	0.56
1:AA:43:C:H2'	1:AA:44:G:H8	1.69	0.56
1:AA:448:A:H2'	1:AA:449:C:C6	2.40	0.56
1:AA:975:A:N7	1:AA:1365:G:N2	2.53	0.56
5:AE:182:ILE:HD13	5:AE:182:ILE:N	2.16	0.56
5:AE:178:ARG:NH1	5:AE:196:LEU:O	2.37	0.56
5:AE:75:LYS:CA	5:AE:75:LYS:NZ	2.66	0.56
6:AF:156:ARG:HH12	6:AF:161:GLU:C	2.09	0.56
1:AA:409:G:C5'	7:AG:24:GLU:OE1	2.47	0.56
9:AI:2:ARG:HG3	9:AI:69:GLU:HG2	1.87	0.56
10:AJ:45:ASP:HA	10:AJ:48:LYS:CE	2.35	0.56
11:AK:60:ARG:HG2	11:AK:62:TYR:CZ	2.39	0.56
12:AL:5:TYR:CD1	12:AL:18:PHE:CZ	2.92	0.56
12:AL:55:ALA:HB1	12:AL:58:HIS:ND1	2.20	0.56
16:AP:36:LYS:HD3	16:AP:59:TYR:HE1	1.70	0.56
18:AR:79:ARG:CB	18:AR:79:ARG:HH11	2.18	0.56
20:AT:46:ASP:OD1	20:AT:51:TYR:HD1	1.87	0.56
21:AU:41:LYS:C	21:AU:44:LEU:HD23	2.25	0.56
22:AV:42:PRO:O	22:AV:44:MET:N	2.38	0.56
23:AW:44:ALA:HB3	23:AW:91:LEU:CD1	2.15	0.56
50:B2:31:LEU:HD12	50:B2:32:GLN:NE2	2.19	0.56
55:B7:10:ALA:CB	55:B7:64:TYR:CE2	2.82	0.56
25:BA:1028:A:O2'	25:BA:1029:A:H5'	2.05	0.56
25:BA:1281:G:H2'	25:BA:1282:U:C6	2.40	0.56
25:BA:1313:U:O2'	25:BA:1314:C:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1381:G:C6	25:BA:1382:G:C5	2.92	0.56
25:BA:1796:U:O2'	25:BA:1797:C:O5'	2.23	0.56
25:BA:183:C:O5'	25:BA:183:C:H6	1.87	0.56
25:BA:1978:A:C6	25:BA:1979:C:C4	2.92	0.56
25:BA:2100:G:H1'	25:BA:2190:G:N2	2.20	0.56
25:BA:2124:G:H21	27:BC:218:MET:N	2.02	0.56
25:BA:2194:G:N1	25:BA:2195:C:N4	2.53	0.56
25:BA:2318:G:OP2	25:BA:2318:G:C8	2.57	0.56
25:BA:2391:G:O2'	25:BA:2392:A:P	2.62	0.56
25:BA:2246:G:N9	25:BA:2426:A:C2	2.73	0.56
25:BA:2626:C:H3'	25:BA:2626:C:C6	2.40	0.56
25:BA:2749:A:N7	25:BA:2750:A:C8	2.73	0.56
25:BA:344:G:C2'	25:BA:345:A:O4'	2.53	0.56
25:BA:248:G:H5''	25:BA:386:G:N2	2.20	0.56
25:BA:400:G:H8	25:BA:400:G:O5'	1.88	0.56
25:BA:424:G:C2'	25:BA:425:G:H5'	2.35	0.56
25:BA:469:G:N1	54:B6:40:TRP:CZ2	2.73	0.56
25:BA:598:G:C4'	37:BO:12:ALA:HB3	2.34	0.56
25:BA:65:C:C2	25:BA:66:C:C5	2.93	0.56
25:BA:747:U:H6	25:BA:747:U:O5'	1.88	0.56
25:BA:774:A:H5'	25:BA:778:G:C1'	2.35	0.56
25:BA:783:A:C6	25:BA:785:G:H8	2.21	0.56
25:BA:881:G:C2	25:BA:882:G:H1'	2.39	0.56
26:BB:71:C:H2'	26:BB:72:G:O4'	2.05	0.56
27:BC:213:TYR:N	27:BC:213:TYR:CD1	2.73	0.56
28:BD:69:ARG:HH21	28:BD:130:ALA:CB	2.16	0.56
28:BD:203:ASN:HD22	28:BD:203:ASN:N	2.03	0.56
28:BD:71:ASP:HB3	28:BD:103:ARG:NH1	2.20	0.56
28:BD:85:ASP:O	28:BD:87:ASN:N	2.35	0.56
25:BA:2619:C:C4'	29:BE:151:TYR:O	2.50	0.56
29:BE:188:VAL:O	29:BE:188:VAL:HG12	2.05	0.56
30:BF:97:TYR:N	30:BF:97:TYR:CD2	2.48	0.56
31:BG:172:LEU:O	31:BG:176:LEU:CB	2.52	0.56
31:BG:79:ASN:OD1	31:BG:82:LEU:HD11	2.05	0.56
32:BH:147:ASN:O	32:BH:151:ILE:HG22	2.05	0.56
25:BA:1035:U:O3'	32:BH:59:ARG:NH2	2.38	0.56
36:BN:97:ARG:CG	36:BN:117:LEU:HD11	2.35	0.56
36:BN:99:PHE:CD2	36:BN:100:GLY:N	2.65	0.56
38:BP:128:LYS:HB2	38:BP:128:LYS:NZ	2.20	0.56
38:BP:67:ARG:CG	38:BP:68:ILE:N	2.54	0.56
41:BS:53:ARG:HH21	41:BS:102:ILE:N	1.98	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:96:ARG:CD	41:BS:117:ASP:OD2	2.47	0.56
41:BS:28:VAL:HG23	41:BS:94:ALA:HB2	1.87	0.56
45:BW:13:LEU:HB3	45:BW:96:ILE:CG1	2.31	0.56
45:BW:19:ALA:O	45:BW:22:ALA:HB3	2.05	0.56
45:BW:36:LYS:CD	45:BW:54:VAL:HG12	2.34	0.56
46:BX:27:VAL:HG22	46:BX:28:LYS:H	1.69	0.56
46:BX:33:LYS:HB3	46:BX:35:TYR:HE2	1.70	0.56
47:BY:127:LYS:HA	47:BY:164:ALA:CB	2.34	0.56
47:BY:6:LYS:HE2	47:BY:35:ARG:NE	2.21	0.56
47:BY:62:PRO:O	47:BY:64:GLY:N	2.37	0.56
48:BZ:44:ARG:NH2	48:BZ:77:ARG:NH1	2.43	0.56
25:BA:1061:U:C4'	25:BA:1070:A:C1'	2.65	0.56
25:BA:1086:A:N3	25:BA:1086:A:C2'	2.68	0.56
34:BL:115:LEU:C	34:BL:115:LEU:HD13	2.25	0.56
1:AA:1032:A:H2'	1:AA:1032(A):G:O4'	2.05	0.56
4:A1:14:A:C4	4:A1:14:A:H3'	2.39	0.56
4:A1:15:A:C5'	4:A1:15:A:C8	2.81	0.56
1:AA:1065:U:OP2	1:AA:1190:G:N2	2.38	0.56
1:AA:1492:A:C8	1:AA:1493:A:N3	2.73	0.56
1:AA:262:A:H2'	1:AA:263:A:N7	2.18	0.56
1:AA:39:G:C2'	1:AA:40:C:O5'	2.53	0.56
1:AA:482:A:C2'	1:AA:482:A:N3	2.68	0.56
1:AA:719:C:H1'	21:AU:49:LYS:HB3	1.85	0.56
1:AA:887:G:H2'	1:AA:888:G:C8	2.37	0.56
1:AA:933:G:OP2	10:AJ:3:ARG:CG	2.53	0.56
2:AC:31:G:O3'	12:AL:127:LYS:O	2.22	0.56
3:AD:40:C:C2'	3:AD:41:G:H5"	2.35	0.56
3:AD:76:A:H2'	25:BA:2432:A:C4'	2.36	0.56
6:AF:91:LEU:CD1	6:AF:99:VAL:HG13	2.35	0.56
7:AG:133:VAL:HG11	7:AG:138:TYR:CD1	2.41	0.56
7:AG:61:LYS:HG3	7:AG:207:TYR:OH	2.04	0.56
7:AG:30:LYS:HZ3	7:AG:35:ARG:NH1	2.02	0.56
7:AG:18:LYS:CG	7:AG:33:MET:HB3	2.23	0.56
8:AH:106:PRO:CB	8:AH:120:THR:HG21	2.31	0.56
9:AI:4:TYR:HB3	9:AI:91:VAL:C	2.25	0.56
10:AJ:17:VAL:CG1	10:AJ:17:VAL:O	2.52	0.56
11:AK:22:GLU:O	11:AK:63:LEU:HD22	2.05	0.56
14:AN:121:PRO:CG	14:AN:125:PHE:HB2	2.35	0.56
15:AO:83:VAL:HG13	15:AO:84:LEU:N	2.19	0.56
1:AA:1309:G:OP1	16:AP:88:ARG:NH1	2.38	0.56
16:AP:90:LEU:O	16:AP:93:ARG:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:35:SER:C	22:AV:37:ARG:H	2.09	0.56
1:AA:1242:C:H5'	24:AX:10:ARG:NH1	2.19	0.56
51:B3:54:GLY:O	51:B3:55:ARG:HB2	2.05	0.56
44:BV:19:LEU:CB	52:B4:25:LEU:HD22	2.30	0.56
53:B5:51:GLU:OE1	53:B5:52:VAL:HA	2.04	0.56
55:B7:23:VAL:CG1	55:B7:24:ALA:N	2.68	0.56
55:B7:43:GLN:CD	55:B7:43:GLN:N	2.59	0.56
25:BA:1009:A:H1'	42:BT:59:ARG:NE	2.20	0.56
25:BA:1123:C:H2'	25:BA:1124:C:C5	2.40	0.56
25:BA:1218:C:OP2	42:BT:15:LYS:CE	2.53	0.56
25:BA:1319:G:O2'	25:BA:1320:C:C5'	2.52	0.56
25:BA:1427:A:O2'	25:BA:1428:C:P	2.62	0.56
25:BA:1554:A:HO2'	25:BA:1555:G:P	2.29	0.56
25:BA:49:A:N6	25:BA:176:G:C5	2.71	0.56
25:BA:1930:G:C2'	25:BA:1931:U:OP2	2.53	0.56
25:BA:1785:A:C5'	25:BA:1982:C:C4'	2.84	0.56
25:BA:1987:G:O2'	25:BA:1988:C:O5'	2.22	0.56
25:BA:2040:C:C2	25:BA:2041:U:C6	2.94	0.56
25:BA:2111:C:O4'	25:BA:2118:U:H1'	2.04	0.56
25:BA:2323:G:H22	25:BA:2331:G:N2	2.02	0.56
25:BA:2262:U:H4'	25:BA:2328:A:C2	2.39	0.56
25:BA:2344:U:C3'	53:B5:38:LYS:HG3	2.35	0.56
25:BA:2407:G:H2'	25:BA:2408:U:H6	1.66	0.56
25:BA:2422:A:N3	25:BA:2424:C:N4	2.50	0.56
25:BA:420:C:H2'	25:BA:421:U:O4'	2.04	0.56
25:BA:449:A:N3	25:BA:449:A:H2'	2.21	0.56
25:BA:624:C:C6	25:BA:624:C:C3'	2.89	0.56
25:BA:627:A:H62	25:BA:636:G:HO2'	1.48	0.56
25:BA:631:A:OP1	25:BA:631:A:H8	1.88	0.56
25:BA:636:G:C4'	25:BA:638:G:O2'	2.51	0.56
25:BA:668:G:C5	25:BA:670:A:C8	2.93	0.56
25:BA:696:G:O2'	25:BA:697:C:C5'	2.53	0.56
25:BA:7:G:C2	25:BA:8:A:C5	2.93	0.56
25:BA:878:A:C2	25:BA:879:G:H3'	2.40	0.56
26:BB:43:C:H2'	26:BB:44:G:C5'	2.35	0.56
26:BB:58:A:C5	26:BB:59:A:N7	2.73	0.56
27:BC:39:GLU:HB3	27:BC:178:ALA:HB2	1.86	0.56
27:BC:93:TYR:CD1	27:BC:107:TRP:HZ2	2.23	0.56
25:BA:2208:U:O3'	28:BD:151:LYS:HE2	2.05	0.56
28:BD:155:LEU:HG	28:BD:157:ARG:NE	2.18	0.56
28:BD:176:ARG:NH1	28:BD:176:ARG:HG3	1.99	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:66:HIS:O	29:BE:68:ALA:N	2.38	0.56
30:BF:25:PRO:O	30:BF:28:ILE:CG2	2.50	0.56
32:BH:85:LYS:CE	32:BH:142:GLY:HA2	2.35	0.56
32:BH:98:LEU:CD2	32:BH:100:GLY:O	2.54	0.56
32:BH:98:LEU:HD12	32:BH:123:PHE:O	2.05	0.56
35:BM:12:ARG:HD3	35:BM:50:ASP:OD1	2.05	0.56
35:BM:58:ASP:O	35:BM:60:ILE:HG13	2.05	0.56
36:BN:9:GLU:OE1	36:BN:17:ARG:HG2	2.04	0.56
37:BO:35:HIS:C	37:BO:36:LYS:CE	2.73	0.56
37:BO:52:GLU:OE2	37:BO:52:GLU:N	2.38	0.56
35:BM:4:TYR:CZ	42:BT:101:ARG:HB3	2.39	0.56
42:BT:111:GLU:CA	42:BT:114:LYS:HE3	2.35	0.56
42:BT:45:TYR:HB3	42:BT:49:HIS:HE1	1.68	0.56
43:BU:14:VAL:C	43:BU:100:ARG:HH22	2.07	0.56
46:BX:79:CYS:HB2	46:BX:98:VAL:CB	2.35	0.56
25:BA:1072:C:P	25:BA:1073:A:H5'	2.44	0.56
7:AG:163:GLU:HG3	7:AG:164:ALA:N	2.18	0.56
47:BY:175:VAL:HG13	47:BY:176:PRO:HD2	1.86	0.56
5:AE:35:GLU:O	5:AE:36:ARG:NH1	2.38	0.56
1:AA:562:C:O2	15:AO:15:ARG:O	2.22	0.56
25:BA:2241:A:C6	25:BA:2242:G:O6	2.58	0.56
1:AA:1069:C:C5	1:AA:1094:G:O6	2.58	0.56
1:AA:113:G:N2	1:AA:315:A:C2	2.73	0.56
1:AA:1181:G:O3'	1:AA:1184:G:H5'	2.05	0.56
1:AA:1184:G:C2	1:AA:1185:G:C5	2.93	0.56
1:AA:1185:G:N2	1:AA:1186:G:H1'	2.21	0.56
1:AA:1284:C:H2'	1:AA:1285:A:N7	2.20	0.56
1:AA:323:U:H5'	23:AW:23:ARG:HB2	1.87	0.56
1:AA:512:U:H2'	1:AA:513:C:C6	2.41	0.56
1:AA:557:G:H2'	1:AA:558:G:C8	2.40	0.56
1:AA:560:U:OP1	1:AA:566:G:N2	2.38	0.56
1:AA:571:U:C3'	1:AA:572:A:C5'	2.71	0.56
1:AA:752:G:OP2	1:AA:752:G:O4'	2.23	0.56
1:AA:755:G:O2'	11:AK:1:MET:HE1	2.05	0.56
1:AA:918:A:H2'	1:AA:919:A:O4'	2.05	0.56
2:AC:19:G:O3'	2:AC:20:U:C5	2.59	0.56
2:AC:62:C:O2'	2:AC:63:G:H5'	2.05	0.56
2:AC:75:C:H2'	2:AC:76:A:O3'	2.05	0.56
6:AF:183:ASP:N	6:AF:204:LEU:HD21	2.20	0.56
7:AG:107:ARG:HD2	7:AG:173:TRP:HZ2	1.69	0.56
8:AH:18:ARG:HH21	8:AH:25:ARG:CB	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:83:ALA:CB	10:AJ:85:TYR:HE2	2.17	0.56
11:AK:64:LYS:HG2	11:AK:79:VAL:CG2	2.14	0.56
13:AM:81:THR:O	13:AM:85:LEU:HD12	2.05	0.56
14:AN:78:GLN:C	14:AN:104:GLN:HB3	2.26	0.56
15:AO:37:CYS:HB3	15:AO:58:VAL:CG2	2.35	0.56
21:AU:80:PRO:HB2	21:AU:83:GLU:CG	2.35	0.56
22:AV:19:VAL:HG22	22:AV:43:GLU:OE1	2.06	0.56
24:AX:5:ASP:O	24:AX:7:ARG:HG3	2.05	0.56
49:B1:28:MET:CA	49:B1:31:ARG:HH21	2.16	0.56
50:B2:26:LEU:HB3	50:B2:28:LEU:HD21	1.87	0.56
54:B6:33:ARG:O	54:B6:37:LYS:CB	2.46	0.56
55:B7:14:VAL:HA	55:B7:22:VAL:CG1	2.36	0.56
55:B7:39:LYS:HG2	55:B7:40:GLU:H	1.70	0.56
25:BA:1011:G:O2'	25:BA:1013:C:C5'	2.46	0.56
25:BA:1448:G:H2'	25:BA:1449:A:H8	1.70	0.56
25:BA:1544:C:H2'	25:BA:1545:A:O5'	2.04	0.56
25:BA:1583:A:OP1	25:BA:1583:A:H4'	2.04	0.56
25:BA:1681:G:C2'	25:BA:1682:G:OP1	2.53	0.56
25:BA:1804:C:OP1	28:BD:257:LEU:CD2	2.53	0.56
25:BA:1910:G:C2	25:BA:1921:G:N3	2.74	0.56
25:BA:2128:C:N4	25:BA:2129:C:N4	2.52	0.56
25:BA:2307:G:O2'	25:BA:2311:A:N7	2.32	0.56
25:BA:2349:G:H2'	25:BA:2350:C:H5''	1.87	0.56
25:BA:2447:G:C4	25:BA:2501:C:C4	2.93	0.56
25:BA:2454:G:C5	25:BA:2455:G:N7	2.73	0.56
25:BA:2471:C:H2'	25:BA:2472:G:C5'	2.35	0.56
25:BA:2523:G:N3	25:BA:2765:A:N6	2.53	0.56
25:BA:243:U:O4	25:BA:255:A:C8	2.58	0.56
25:BA:2546:U:O4'	25:BA:2565:A:H2	1.88	0.56
25:BA:2583:G:H5''	25:BA:2584:U:OP2	2.05	0.56
25:BA:2659:G:H1'	25:BA:2663:G:H1	1.70	0.56
25:BA:2696:U:C2	25:BA:2697:G:N7	2.73	0.56
25:BA:270(Z):U:O2	25:BA:271(B):G:OP1	2.23	0.56
25:BA:2729:G:O2'	29:BE:185:LYS:HE2	2.05	0.56
25:BA:2810:A:H1'	29:BE:61:ARG:NH2	2.20	0.56
25:BA:2865:U:C5	25:BA:2866:U:C5	2.93	0.56
25:BA:302:C:N3	25:BA:303:U:C5	2.74	0.56
25:BA:360:G:H2'	25:BA:361:G:O5'	2.05	0.56
25:BA:453:C:H4'	25:BA:457:A:N6	2.19	0.56
25:BA:511:U:C4	25:BA:512:G:H1'	2.41	0.56
25:BA:595:C:C2	25:BA:596:G:C8	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:654:A:C2'	25:BA:654:A:N3	2.68	0.56
25:BA:602:G:H2'	25:BA:655:A:C2	2.41	0.56
25:BA:686:G:N7	54:B6:12:ARG:NH1	2.52	0.56
25:BA:776:G:O6	25:BA:2072:G:OP1	2.23	0.56
25:BA:77:C:H2'	25:BA:78:A:C8	2.40	0.56
25:BA:7:G:H2'	25:BA:8:A:H8	1.68	0.56
25:BA:865:C:O2'	25:BA:866:A:C8	2.53	0.56
25:BA:969:U:O2'	25:BA:970:C:H5'	2.05	0.56
26:BB:51:G:C2'	26:BB:52:A:O5'	2.52	0.56
28:BD:131:LEU:HG	28:BD:132:PRO:HD2	1.87	0.56
25:BA:1803:A:O3'	28:BD:257:LEU:CD1	2.53	0.56
28:BD:51:VAL:HG12	28:BD:52:ARG:HD2	1.86	0.56
25:BA:692:C:O3'	28:BD:60:ARG:NH2	2.38	0.56
29:BE:111:ARG:HB2	29:BE:160:TYR:O	2.05	0.56
29:BE:199:ARG:C	29:BE:200:GLU:CD	2.64	0.56
30:BF:153:SER:O	30:BF:190:GLU:N	2.38	0.56
30:BF:6:VAL:CA	30:BF:20:LEU:HD22	2.28	0.56
31:BG:2:PRO:HA	31:BG:5:VAL:HG23	1.88	0.56
32:BH:66:GLY:C	32:BH:69:ARG:HG2	2.26	0.56
33:BK:24:GLY:CA	33:BK:27:ARG:HH11	2.18	0.56
35:BM:27:ALA:O	35:BM:28:THR:C	2.43	0.56
29:BE:149:ARG:NH2	35:BM:78:TYR:CE2	2.73	0.56
35:BM:78:TYR:C	35:BM:80:GLY:N	2.58	0.56
37:BO:99:LEU:HD13	37:BO:101:VAL:HG22	1.88	0.56
25:BA:670:A:H5''	37:BO:39:LYS:O	2.05	0.56
37:BO:80:TYR:O	37:BO:83:VAL:HG22	2.04	0.56
38:BP:28:ALA:C	38:BP:104:PHE:HD2	2.09	0.56
39:BQ:34:ILE:CG2	39:BQ:35:THR:N	2.68	0.56
41:BS:65:LYS:HE2	41:BS:75:ILE:HD12	1.86	0.56
42:BT:47:TYR:O	42:BT:48:ALA:C	2.42	0.56
44:BV:82:LEU:HD12	44:BV:84:ARG:CD	2.35	0.56
46:BX:13:VAL:HB	46:BX:73:ARG:NE	2.20	0.56
46:BX:48:ALA:CA	46:BX:56:PRO:HD2	2.35	0.56
46:BX:8:LYS:O	46:BX:9:LYS:C	2.44	0.56
47:BY:102:LEU:CG	47:BY:125:LEU:HD12	2.35	0.56
47:BY:111:VAL:C	47:BY:113:ALA:N	2.58	0.56
47:BY:96:VAL:HG13	47:BY:128:VAL:CG2	2.35	0.56
47:BY:109:ALA:N	47:BY:144:LEU:HD12	2.09	0.56
47:BY:5:LEU:HB2	47:BY:23:LYS:NZ	2.19	0.56
48:BZ:72:ARG:O	48:BZ:75:LEU:CD1	2.53	0.56
2:AC:2:G:O2'	48:BZ:7:LEU:HD22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1148:U:O2	1:AA:1149:C:C6	2.59	0.56
1:AA:1192:C:C5	1:AA:1193:G:C8	2.86	0.56
1:AA:1197:G:C2'	1:AA:1198:G:H5'	2.36	0.56
1:AA:1205:U:H4'	6:AF:195:VAL:CG1	2.29	0.56
1:AA:1242:C:N4	1:AA:1243:C:N4	2.53	0.56
1:AA:1494:G:H2'	1:AA:1495:U:C5	2.40	0.56
1:AA:151:A:C6	1:AA:152:A:N3	2.73	0.56
1:AA:277:C:C4	1:AA:278:G:N7	2.74	0.56
1:AA:307:C:C6	1:AA:307:C:O5'	2.58	0.56
1:AA:410:G:H1'	1:AA:432:A:H61	1.69	0.56
1:AA:476:G:H21	1:AA:477:G:H1'	1.70	0.56
1:AA:455:C:N3	1:AA:477:G:O6	2.38	0.56
1:AA:451:A:C8	1:AA:481:G:N1	2.73	0.56
1:AA:438:G:O2'	1:AA:494:U:O4	2.19	0.56
1:AA:550:G:C6	1:AA:551:U:O4	2.58	0.56
1:AA:665:A:H2'	1:AA:725:G:H22	1.67	0.56
1:AA:718:G:C2	14:AN:116:HIS:CE1	2.93	0.56
1:AA:775:G:O2'	1:AA:776:G:O5'	2.19	0.56
1:AA:928:G:H4'	1:AA:1533:C:C2	2.41	0.56
1:AA:993:G:N2	1:AA:995:C:H42	2.03	0.56
1:AA:9:G:OP2	8:AH:122:GLU:OE1	2.23	0.56
2:AC:34:C:O5'	2:AC:34:C:H6	1.88	0.56
2:AC:50:U:H2'	2:AC:51:C:H6	1.70	0.56
2:AC:70:G:N2	2:AC:71:C:C2	2.74	0.56
3:AD:48:C:N4	3:AD:59:U:C2	2.74	0.56
5:AE:150:SER:O	5:AE:151:GLY:O	2.23	0.56
5:AE:204:ASN:HB3	5:AE:210:SER:OG	2.05	0.56
5:AE:55:PHE:O	5:AE:58:ILE:HB	2.05	0.56
5:AE:82:ARG:HA	5:AE:92:TYR:OH	2.06	0.56
6:AF:108:ASN:HD22	6:AF:111:LEU:HD13	1.69	0.56
7:AG:22:LYS:CB	7:AG:26:CYS:CB	2.82	0.56
12:AL:23:ASN:ND2	12:AL:57:GLY:O	2.39	0.56
16:AP:81:LEU:HA	16:AP:84:ILE:HD11	1.86	0.56
1:AA:667:G:H4'	18:AR:51:HIS:CG	2.40	0.56
21:AU:46:GLU:O	21:AU:48:GLY:N	2.36	0.56
21:AU:68:LYS:O	21:AU:71:LYS:HB2	2.05	0.56
22:AV:17:GLU:OE1	22:AV:18:LYS:N	2.38	0.56
1:AA:1320:C:H6	22:AV:70:LYS:CD	2.18	0.56
23:AW:92:LEU:O	23:AW:93:GLU:CG	2.52	0.56
49:B1:25:ARG:HH21	49:B1:25:ARG:CG	2.17	0.56
55:B7:12:LYS:HG2	55:B7:13:ARG:HH12	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B7:36:LYS:HB3	55:B7:41:ILE:HD11	1.86	0.56
25:BA:1027:A:O2'	25:BA:1028:A:H5'	2.06	0.56
25:BA:1268:A:C2'	25:BA:1269:A:C8	2.82	0.56
25:BA:126:A:N7	25:BA:127:A:C5	2.74	0.56
25:BA:1290:C:C2	25:BA:1291:C:C5	2.94	0.56
25:BA:1297:C:O2'	25:BA:1302:A:N6	2.38	0.56
25:BA:138:G:C2	25:BA:139:G:C8	2.93	0.56
25:BA:14:A:N7	25:BA:15:G:C1'	2.68	0.56
25:BA:1511:A:H3'	25:BA:1512:G:H5''	1.88	0.56
25:BA:153:C:N4	25:BA:154:G:O6	2.38	0.56
25:BA:1546:C:H4'	25:BA:1547:C:H5	1.70	0.56
25:BA:1332:G:N3	25:BA:1609:A:N1	2.53	0.56
25:BA:1669:A:C2'	25:BA:1669:A:N3	2.68	0.56
25:BA:1685:C:H2'	25:BA:1686:C:O5'	2.05	0.56
25:BA:1743:G:H3'	25:BA:1746:G:H8	1.69	0.56
25:BA:1807:G:N2	25:BA:1809:A:H5'	2.19	0.56
25:BA:1792:G:O2'	25:BA:1830:C:OP1	2.20	0.56
25:BA:195:A:OP2	25:BA:196:A:O3'	2.24	0.56
25:BA:1939:U:O4	25:BA:1967:C:C1'	2.52	0.56
25:BA:1999:C:C2'	25:BA:2000:G:O5'	2.54	0.56
25:BA:2021:C:N4	42:BT:25:TRP:CD1	2.73	0.56
25:BA:2134:A:OP2	25:BA:2134:A:O4'	2.23	0.56
25:BA:2226:C:C2'	25:BA:2226:C:O2	2.51	0.56
25:BA:2226:C:O2	25:BA:2227:A:H1'	2.04	0.56
25:BA:2238:G:HO2'	25:BA:2239:G:H5''	1.66	0.56
25:BA:2285:C:O4'	25:BA:2288:A:C6	2.59	0.56
25:BA:2455:G:O2'	25:BA:2456:C:C5'	2.53	0.56
25:BA:2548:G:H2'	25:BA:2549:G:O5'	2.05	0.56
25:BA:2589:A:N1	25:BA:2606:C:N4	2.53	0.56
25:BA:2695:C:C2'	25:BA:2696:U:C6	2.87	0.56
25:BA:2730:C:H2'	25:BA:2731:G:C8	2.40	0.56
25:BA:273(C):C:H2'	25:BA:273(D):C:C5	2.40	0.56
25:BA:2840:C:H2'	25:BA:2841:C:C5'	2.36	0.56
25:BA:2845:G:O2'	25:BA:2846:G:O4'	2.23	0.56
25:BA:2897:U:H2'	25:BA:2898:U:H6	1.70	0.56
25:BA:295:G:C8	25:BA:345:A:C2	2.93	0.56
25:BA:468:G:H2'	25:BA:469:G:C4'	2.36	0.56
25:BA:627:A:C2	25:BA:628:G:H1'	2.41	0.56
25:BA:734:A:C2	25:BA:735:A:N9	2.73	0.56
25:BA:751:A:C6	25:BA:789:A:N6	2.73	0.56
25:BA:817:C:H2'	25:BA:818:G:H8	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:997:G:H5''	42:BT:92:ARG:CZ	2.33	0.56
26:BB:24:G:O5'	26:BB:24:G:C8	2.59	0.56
27:BC:51:PRO:C	27:BC:53:ARG:H	2.08	0.56
28:BD:261:LYS:O	28:BD:263:ARG:N	2.38	0.56
25:BA:1814:G:OP1	28:BD:43:ARG:HB2	2.06	0.56
29:BE:101:ARG:NH2	29:BE:171:GLU:HG2	2.19	0.56
29:BE:127:ASP:O	29:BE:128:SER:HB3	2.04	0.56
25:BA:2787:C:C1'	29:BE:61:ARG:HD2	2.30	0.56
29:BE:97:LYS:HE3	29:BE:98:PRO:O	2.04	0.56
30:BF:125:LEU:C	30:BF:127:GLU:N	2.59	0.56
32:BH:50:VAL:O	32:BH:51:ARG:NH1	2.38	0.56
32:BH:68:THR:CG2	32:BH:72:ILE:HD11	2.35	0.56
32:BH:89:ILE:CD1	32:BH:90:LYS:N	2.69	0.56
35:BM:15:LEU:HD21	35:BM:137:LYS:HA	1.86	0.56
36:BN:64:ARG:NH2	36:BN:68:GLU:N	2.54	0.56
37:BO:114:ILE:HD13	37:BO:129:ALA:C	2.24	0.56
37:BO:46:LYS:HD3	37:BO:50:ARG:CD	2.30	0.56
38:BP:39:PRO:CB	38:BP:127:ILE:HG12	2.36	0.56
38:BP:26:TYR:HD1	38:BP:27:VAL:N	2.04	0.56
38:BP:45:GLN:OE1	38:BP:45:GLN:N	2.39	0.56
38:BP:85:LYS:HE3	38:BP:88:GLY:H	1.70	0.56
40:BR:31:SER:HB3	40:BR:34:HIS:CG	2.41	0.56
43:BU:1:MET:H3	43:BU:44:LYS:HA	1.71	0.56
44:BV:3:ALA:CB	44:BV:54:ALA:O	2.52	0.56
46:BX:71:LYS:O	46:BX:72:VAL:O	2.23	0.56
46:BX:97:ARG:HH11	46:BX:97:ARG:HG2	1.69	0.56
47:BY:53:ILE:O	47:BY:54:HIS:CD2	2.58	0.56
47:BY:63:ASP:CG	47:BY:64:GLY:N	2.58	0.56
26:BB:75:G:N2	47:BY:87:ASP:OD2	2.38	0.56
48:BZ:37:LEU:HD12	48:BZ:38:VAL:HG22	1.87	0.56
48:BZ:67:VAL:O	48:BZ:67:VAL:HG12	2.05	0.56
33:BK:81:VAL:HG21	33:BK:123:LEU:HD12	1.87	0.56
33:BK:127:VAL:HG13	33:BK:141:LYS:N	2.20	0.56
33:BK:131:LYS:H	33:BK:131:LYS:CD	2.16	0.56
25:BA:1100:C:C2'	25:BA:1101:U:OP1	2.53	0.56
34:BL:55:VAL:HG22	34:BL:69:THR:CA	2.34	0.56
32:BH:18:GLU:OE1	32:BH:25:LYS:HG2	2.05	0.56
1:AA:1027:C:C4	1:AA:1028:C:C5	2.92	0.56
1:AA:1299:A:N7	1:AA:1301:U:H1'	2.20	0.56
1:AA:1320:C:H3'	1:AA:1321:C:C6	2.40	0.56
1:AA:1451:A:H8	1:AA:1451:A:OP1	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:158:G:O6	1:AA:159:G:C5	2.58	0.56
1:AA:195:A:O5'	23:AW:68:LYS:NZ	2.39	0.56
1:AA:143:A:H2	1:AA:220:G:H1	1.52	0.56
1:AA:294:U:H2'	1:AA:294:U:O2	2.06	0.56
1:AA:411:A:C5	1:AA:429:U:C5	2.93	0.56
1:AA:410:G:N1	1:AA:429:U:O2	2.38	0.56
1:AA:432:A:N7	1:AA:433:C:C2	2.73	0.56
1:AA:503:C:H2'	1:AA:504:C:H6	1.70	0.56
1:AA:514:C:O2'	1:AA:515:G:H5'	2.05	0.56
1:AA:418:C:O2'	1:AA:540:G:H1'	2.05	0.56
1:AA:574:A:H5''	1:AA:575:G:OP2	2.06	0.56
1:AA:696:A:C2	1:AA:697:U:C1'	2.88	0.56
1:AA:707:C:H2'	1:AA:708:C:O5'	2.06	0.56
1:AA:666:G:H5'	1:AA:726:C:O2	2.05	0.56
1:AA:948:C:O2'	1:AA:949:A:C5'	2.53	0.56
3:AD:18:G:H2'	3:AD:19:G:O4'	2.05	0.56
3:AD:59:U:O2	3:AD:59:U:C2'	2.52	0.56
3:AD:63:G:C4	3:AD:64:C:C5	2.93	0.56
5:AE:142:LEU:HD23	5:AE:142:LEU:C	2.25	0.56
5:AE:178:ARG:HE	5:AE:196:LEU:HD13	1.70	0.56
5:AE:61:LEU:HA	5:AE:64:ARG:HD2	1.86	0.56
6:AF:184:TYR:HA	6:AF:200:ALA:O	2.05	0.56
6:AF:6:HIS:CD2	17:AQ:49:HIS:HB3	2.39	0.56
7:AG:180:GLY:CA	7:AG:182:LYS:NZ	2.68	0.56
7:AG:144:ASP:HA	7:AG:184:LYS:HD3	1.87	0.56
8:AH:24:ARG:NH1	8:AH:24:ARG:HG2	2.17	0.56
8:AH:28:PHE:CD1	8:AH:28:PHE:N	2.71	0.56
9:AI:82:ARG:C	9:AI:83:ASP:CG	2.64	0.56
1:AA:1346:A:C2	10:AJ:10:ARG:CZ	2.88	0.56
10:AJ:26:PHE:O	10:AJ:30:ILE:HG13	2.05	0.56
11:AK:46:LYS:HG3	11:AK:64:LYS:CG	2.35	0.56
16:AP:20:THR:HG23	16:AP:25:ILE:O	2.05	0.56
18:AR:9:GLN:O	18:AR:12:ILE:HB	2.05	0.56
18:AR:62:GLN:HA	18:AR:65:ARG:HH22	1.67	0.56
18:AR:69:TYR:O	18:AR:70:LEU:C	2.41	0.56
18:AR:7:GLU:HB3	18:AR:10:LYS:HE3	1.88	0.56
19:AS:6:LEU:CG	19:AS:17:TYR:HD2	2.17	0.56
19:AS:71:ARG:HG3	19:AS:80:PHE:HE1	1.69	0.56
20:AT:3:LYS:NZ	20:AT:62:SER:HA	2.21	0.56
22:AV:40:ILE:HG21	22:AV:62:ILE:CD1	2.34	0.56
22:AV:43:GLU:OE2	22:AV:47:HIS:NE2	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:13:LEU:CD1	23:AW:13:LEU:H	2.09	0.56
23:AW:57:ARG:HH21	23:AW:100:ILE:CB	2.16	0.56
24:AX:18:TYR:HD2	24:AX:23:PRO:O	1.88	0.56
49:B1:45:ILE:CG1	49:B1:46:ARG:N	2.66	0.56
51:B3:4:GLY:HA2	51:B3:11:PRO:CB	2.34	0.56
51:B3:59:PHE:CA	51:B3:62:ARG:NH1	2.69	0.56
51:B3:66:SER:OG	51:B3:69:LYS:HD2	2.05	0.56
54:B6:46:VAL:O	54:B6:47:ARG:O	2.22	0.56
55:B7:7:HIS:HB3	55:B7:11:LYS:HE3	1.86	0.56
25:BA:1171:G:P	25:BA:1171:G:O4'	2.63	0.56
25:BA:1386:C:H2'	25:BA:1387:C:C6	2.41	0.56
25:BA:1471:A:H2'	25:BA:1472:A:C4'	2.35	0.56
25:BA:1613:G:C2'	25:BA:1617:C:N4	2.65	0.56
25:BA:1657:C:H2'	25:BA:1658:C:O4'	2.05	0.56
25:BA:178:G:C6	25:BA:179:G:C8	2.93	0.56
25:BA:1813:G:C4'	28:BD:46:GLN:HG2	2.32	0.56
25:BA:1819:A:H1'	25:BA:1821:A:N3	2.19	0.56
25:BA:1853:A:N6	25:BA:1889:A:C8	2.73	0.56
25:BA:1984:G:C6	25:BA:1985:G:N7	2.74	0.56
25:BA:2085:C:C2'	25:BA:2086:U:H5'	2.36	0.56
25:BA:209:C:C2'	25:BA:210:C:H5'	2.35	0.56
25:BA:2147:G:H2'	25:BA:2147:G:N3	2.20	0.56
25:BA:2163:C:C2'	25:BA:2164:C:H5'	2.36	0.56
25:BA:2343:C:O2	25:BA:2344:U:H6	1.89	0.56
25:BA:2373:G:O2'	25:BA:2374:C:C6	2.57	0.56
25:BA:2405:G:N2	25:BA:2411:A:C8	2.73	0.56
25:BA:2455:G:N3	25:BA:2456:C:C6	2.74	0.56
25:BA:2505:G:O6	25:BA:2576:G:C1'	2.53	0.56
25:BA:2538:C:N3	25:BA:2539:C:C5	2.73	0.56
25:BA:2618:G:N2	25:BA:2619:C:H1'	2.19	0.56
25:BA:2770:G:C2'	25:BA:2771:C:H5'	2.35	0.56
25:BA:279:C:N4	25:BA:359:A:C1'	2.60	0.56
25:BA:28:A:C2	25:BA:29:U:O2'	2.59	0.56
25:BA:364:C:HO2'	25:BA:365:C:H6	1.53	0.56
25:BA:552:G:O2'	25:BA:553:U:H5'	2.06	0.56
25:BA:625:G:N7	37:BO:104:GLY:CA	2.69	0.56
25:BA:761:A:H8	25:BA:761:A:O5'	1.87	0.56
25:BA:775:G:H21	25:BA:788:A:P	2.25	0.56
26:BB:12:C:O5'	48:BZ:74:ARG:NE	2.38	0.56
27:BC:216:THR:OG1	27:BC:219:GLY:HA3	2.05	0.56
3:AD:62:C:H5'	27:BC:52:ARG:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:268:ARG:O	28:BD:269:PHE:CD1	2.58	0.56
28:BD:84:TYR:HB3	28:BD:91:ARG:HA	1.88	0.56
29:BE:173:VAL:HG23	29:BE:174:ASP:N	2.20	0.56
29:BE:51:PHE:CZ	29:BE:53:PRO:HD3	2.40	0.56
30:BF:11:VAL:HG22	30:BF:126:VAL:HG12	1.86	0.56
30:BF:142:TRP:CD1	30:BF:143:ALA:N	2.74	0.56
30:BF:195:ASP:O	30:BF:197:ASP:OD1	2.24	0.56
30:BF:197:ASP:HB2	30:BF:201:VAL:CG2	2.34	0.56
31:BG:29:TRP:HB2	31:BG:31:VAL:HG23	1.88	0.56
31:BG:48:GLU:HB3	31:BG:51:ARG:HB2	1.86	0.56
31:BG:75:LYS:NZ	31:BG:86:MET:H	2.03	0.56
32:BH:103:LEU:HG	32:BH:105:LEU:HD11	1.86	0.56
32:BH:26:VAL:CG2	32:BH:75:ALA:HB1	2.35	0.56
35:BM:26:LEU:O	35:BM:26:LEU:HD12	2.06	0.56
35:BM:55:VAL:HG13	35:BM:56:ASN:H	1.70	0.56
36:BN:14:THR:C	36:BN:16:ALA:H	2.08	0.56
37:BO:56:SER:OG	55:B7:13:ARG:CD	2.53	0.56
37:BO:63:PRO:HB2	37:BO:64:LYS:HE2	1.87	0.56
38:BP:46:GLN:O	38:BP:49:ALA:CB	2.52	0.56
38:BP:58:PHE:C	38:BP:60:ARG:N	2.57	0.56
39:BQ:39:PRO:O	39:BQ:40:LYS:C	2.44	0.56
40:BR:9:ARG:HB2	40:BR:9:ARG:CZ	2.35	0.56
41:BS:50:ILE:HG21	41:BS:66:VAL:O	2.05	0.56
36:BN:122:LEU:HG	41:BS:71:GLY:CA	2.36	0.56
41:BS:63:VAL:CG1	41:BS:78:LEU:HB2	2.36	0.56
42:BT:112:ARG:HH22	43:BU:50:PRO:CG	2.18	0.56
42:BT:28:ARG:HD3	42:BT:38:THR:HG21	1.87	0.56
35:BM:37:LYS:CG	42:BT:63:VAL:HG11	2.35	0.56
43:BU:3:ALA:HA	43:BU:44:LYS:CD	2.35	0.56
43:BU:73:SER:O	43:BU:88:ARG:HG3	2.06	0.56
45:BW:26:TYR:CE2	45:BW:89:ILE:HB	2.40	0.56
47:BY:124:ILE:HG22	47:BY:125:LEU:N	2.21	0.56
47:BY:48:PHE:CB	47:BY:54:HIS:CE1	2.85	0.56
25:BA:1072:C:N4	25:BA:1100:C:H42	2.03	0.56
34:BL:117:THR:O	34:BL:118:THR:CG2	2.53	0.56
34:BL:78:ILE:HD11	34:BL:127:ILE:HA	1.86	0.56
1:AA:1085:U:C5'	1:AA:1094:G:N2	2.68	0.56
1:AA:1326:C:H2'	1:AA:1327:C:C6	2.40	0.56
1:AA:1369:C:H2'	1:AA:1370:G:O4'	2.05	0.56
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.05	0.56
1:AA:305:G:O2'	1:AA:306:G:P	2.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:363:A:OP2	15:AO:34:ARG:NE	2.38	0.56
1:AA:551:U:H4'	15:AO:119:LYS:HE2	1.87	0.56
1:AA:601:C:O2'	1:AA:602:A:H5'	2.05	0.56
1:AA:658:G:H2'	1:AA:659:U:O4'	2.05	0.56
1:AA:21:G:N2	1:AA:915:A:N6	2.53	0.56
1:AA:935:A:H2'	1:AA:936:C:C6	2.41	0.56
5:AE:91:PRO:O	5:AE:92:TYR:HB3	2.06	0.56
6:AF:6:HIS:CD2	6:AF:8:ILE:HG22	2.40	0.56
1:AA:619:U:O2	7:AG:133:VAL:HG22	2.06	0.56
7:AG:186:LEU:CG	7:AG:187:ARG:H	2.17	0.56
9:AI:4:TYR:HD1	9:AI:90:VAL:HG22	1.70	0.56
10:AJ:139:GLU:CD	10:AJ:139:GLU:H	2.09	0.56
10:AJ:88:PRO:HD2	10:AJ:152:ALA:HA	1.87	0.56
11:AK:83:ILE:HA	11:AK:136:GLU:O	2.05	0.56
11:AK:48:TYR:C	11:AK:49:GLU:HG3	2.24	0.56
11:AK:70:GLN:HE21	11:AK:72:PRO:HD2	1.66	0.56
12:AL:37:PHE:HA	12:AL:40:LEU:HD12	1.86	0.56
12:AL:62:TYR:C	12:AL:63:ILE:HD12	2.26	0.56
13:AM:31:GLY:H	13:AM:81:THR:HG23	1.70	0.56
13:AM:26:ALA:O	13:AM:84:GLN:NE2	2.39	0.56
14:AN:42:TRP:HE3	14:AN:43:SER:N	2.04	0.56
15:AO:113:ARG:O	15:AO:114:LYS:HG3	2.06	0.56
16:AP:62:ASN:C	16:AP:64:TRP:H	2.09	0.56
17:AQ:22:THR:CB	17:AQ:33:VAL:HG23	2.33	0.56
18:AR:27:VAL:O	18:AR:31:LEU:HD13	2.05	0.56
19:AS:8:ARG:NH1	19:AS:11:SER:N	2.53	0.56
1:AA:255:G:P	20:AT:66:SER:HB2	2.44	0.56
14:AN:84:VAL:CG1	21:AU:88:LYS:HD3	2.23	0.56
22:AV:44:MET:HA	22:AV:47:HIS:CD2	2.40	0.56
23:AW:16:HIS:O	23:AW:19:SER:N	2.39	0.56
49:B1:11:LEU:CD1	49:B1:11:LEU:H	2.19	0.56
49:B1:28:MET:HA	49:B1:31:ARG:CG	2.36	0.56
50:B2:18:ASP:OD1	50:B2:19:GLN:N	2.38	0.56
51:B3:29:PRO:O	51:B3:30:GLU:HG2	2.05	0.56
51:B3:56:VAL:HG11	51:B3:61:ARG:HG2	1.86	0.56
51:B3:59:PHE:HD1	51:B3:60:GLN:H	1.53	0.56
51:B3:6:HIS:CD2	51:B3:55:ARG:HB3	2.40	0.56
37:BO:49:ARG:HA	55:B7:52:LYS:HD3	1.86	0.56
56:B8:19:ARG:CG	56:B8:24:TYR:HB2	2.34	0.56
25:BA:1024:G:N2	25:BA:1139:G:N1	2.30	0.56
25:BA:112:U:OP2	25:BA:112:U:H6	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1275:A:O2'	25:BA:1276:A:O4'	2.24	0.56
25:BA:1309:G:P	54:B6:9:ARG:HB2	2.46	0.56
25:BA:140:A:H61	25:BA:1596:A:C4'	2.19	0.56
25:BA:141(A):C:O2'	45:BW:37:THR:HG21	2.05	0.56
25:BA:1491:G:H2'	25:BA:1492:G:O2'	2.05	0.56
25:BA:1633:G:N7	25:BA:1635:G:N1	2.53	0.56
25:BA:1663:C:O2'	25:BA:2686:G:H5''	2.05	0.56
25:BA:1784:A:H2'	25:BA:1981:A:H8	1.71	0.56
25:BA:1786:A:H2'	25:BA:1787:A:C5'	2.35	0.56
25:BA:193:U:N3	25:BA:194:G:N7	2.53	0.56
25:BA:1900:A:N1	25:BA:1970:A:N6	2.53	0.56
25:BA:1998:G:C6	25:BA:1999:C:C4	2.94	0.56
25:BA:2097:C:H2'	25:BA:2098:U:C5'	2.35	0.56
25:BA:2114:A:N3	25:BA:2167:U:O2'	2.33	0.56
25:BA:2195:C:O2	25:BA:2196:C:Cl'	2.53	0.56
25:BA:233:A:N7	25:BA:234:C:C5	2.73	0.56
25:BA:242:G:C2'	25:BA:254:G:N1	2.67	0.56
25:BA:2436:G:H2'	25:BA:2437:U:O5'	2.05	0.56
25:BA:2487:G:O2'	25:BA:2488:A:H5'	2.05	0.56
25:BA:2526:G:C2'	25:BA:2527:C:O5'	2.52	0.56
25:BA:2750:A:N6	56:B8:18:ARG:HH11	2.04	0.56
25:BA:2750:A:H5''	25:BA:2751:G:OP1	2.06	0.56
25:BA:2767:C:N4	25:BA:2768:C:N4	2.54	0.56
25:BA:2776:A:N9	25:BA:2778:A:C8	2.73	0.56
25:BA:288:C:H3'	25:BA:289:A:C5'	2.35	0.56
25:BA:370:G:O2'	25:BA:371:A:O4'	2.18	0.56
25:BA:546:C:H2'	25:BA:547:A:C8	2.41	0.56
25:BA:617:G:N7	25:BA:618:G:N7	2.53	0.56
25:BA:730:C:C3'	25:BA:731:C:C5'	2.83	0.56
25:BA:687:C:Cl'	25:BA:788:A:O4'	2.53	0.56
25:BA:803:U:H2'	25:BA:804:A:C5'	2.36	0.56
26:BB:102:G:N3	47:BY:73:GLN:NE2	2.47	0.56
26:BB:114:G:H2'	26:BB:115:G:O4'	2.04	0.56
26:BB:54:G:H2'	26:BB:55:U:C6	2.40	0.56
26:BB:73:A:H2'	26:BB:74:U:C6	2.40	0.56
25:BA:1568:G:OP2	28:BD:61:LEU:HD11	2.06	0.56
25:BA:2051:A:H4'	29:BE:141:ILE:CG1	2.36	0.56
29:BE:44:TYR:CD1	29:BE:44:TYR:C	2.78	0.56
25:BA:2632:A:C2	29:BE:61:ARG:HG2	2.41	0.56
30:BF:188:ARG:HG2	30:BF:189:THR:N	2.19	0.56
30:BF:18:ARG:HG2	30:BF:19:GLU:H	1.65	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:139:LEU:CD1	31:BG:142:PRO:HB3	2.36	0.56
31:BG:162:THR:HG22	31:BG:162:THR:O	2.06	0.56
31:BG:43:LEU:CB	31:BG:88:ILE:HG21	2.32	0.56
33:BK:9:LEU:O	33:BK:11:ASN:ND2	2.38	0.56
36:BN:15:GLY:N	36:BN:52:VAL:CG1	2.65	0.56
36:BN:97:ARG:HE	36:BN:99:PHE:N	2.03	0.56
37:BO:70:GLN:HB2	37:BO:110:TYR:HE2	1.69	0.56
38:BP:42:ILE:HD13	38:BP:43:THR:N	2.20	0.56
25:BA:957:A:OP1	38:BP:76:LYS:O	2.24	0.56
25:BA:2377:A:H2	40:BR:20:ARG:HH22	1.51	0.56
41:BS:105:LEU:HD12	41:BS:114:LEU:CD2	2.35	0.56
41:BS:4:GLY:C	41:BS:8:LYS:HD2	2.26	0.56
43:BU:27:ALA:HB3	43:BU:35:LEU:HD12	1.87	0.56
43:BU:88:ARG:HG2	43:BU:89:GLN:N	2.20	0.56
44:BV:20:VAL:HG11	44:BV:47:VAL:CG2	2.35	0.56
46:BX:37:VAL:HG22	46:BX:39:VAL:HG21	1.87	0.56
25:BA:85:G:OP1	46:BX:8:LYS:HE3	2.05	0.56
47:BY:116:VAL:O	47:BY:117:LEU:HG	2.05	0.56
33:BK:108:THR:O	33:BK:109:ILE:HD12	2.06	0.56
33:BK:77:LEU:CG	33:BK:141:LYS:O	2.49	0.56
34:BL:131:ALA:CB	34:BL:136:VAL:HB	2.36	0.56
34:BL:55:VAL:CG2	34:BL:69:THR:HG22	2.36	0.56
34:BL:77:LEU:O	34:BL:80:LYS:HB2	2.05	0.56
1:AA:1085:U:O3'	1:AA:1086:U:C6	2.58	0.56
1:AA:1178:G:C4	1:AA:1180:A:OP2	2.59	0.56
1:AA:124:G:O2'	1:AA:125:U:H5'	2.06	0.56
1:AA:1278:U:C4'	1:AA:1279:A:O4'	2.49	0.56
1:AA:224:C:H2'	1:AA:225:C:H6	1.69	0.56
1:AA:22:G:C2'	1:AA:23:C:O4'	2.53	0.56
1:AA:295:C:O2'	1:AA:296:U:H5'	2.04	0.56
1:AA:390:C:N4	1:AA:391:G:O6	2.38	0.56
1:AA:373:A:C5	1:AA:482:A:N7	2.74	0.56
1:AA:565:U:N3	1:AA:566:G:O6	2.39	0.56
1:AA:58:C:H2'	1:AA:59:A:H5'	1.88	0.56
1:AA:622:A:C8	1:AA:623:C:C5	2.93	0.56
1:AA:675:A:O5'	1:AA:675:A:C8	2.58	0.56
1:AA:990:C:H2'	1:AA:991:U:H1'	1.87	0.56
1:AA:991:U:HO2'	1:AA:993:G:H8	1.50	0.56
3:AD:38:A:C6	3:AD:39:U:C5	2.94	0.56
5:AE:67:THR:HG21	5:AE:155:LEU:CD1	2.22	0.56
7:AG:148:VAL:HG12	7:AG:152:SER:OG	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:19:LEU:HA	7:AG:21:LEU:HG	1.86	0.56
8:AH:121:LYS:NZ	8:AH:121:LYS:CB	2.69	0.56
8:AH:84:PHE:HB2	8:AH:134:ALA:HA	1.88	0.56
8:AH:149:GLU:HA	8:AH:149:GLU:OE2	2.04	0.56
9:AI:98:LEU:HD21	21:AU:28:GLU:CB	2.36	0.56
1:AA:1298:C:C4	10:AJ:114:ARG:HB3	2.40	0.56
10:AJ:89:MET:HB3	10:AJ:156:TRP:HB2	1.86	0.56
10:AJ:50:ILE:HG23	10:AJ:61:VAL:HG21	1.86	0.56
10:AJ:82:GLY:O	10:AJ:83:ALA:HB2	2.05	0.56
11:AK:98:LYS:HZ3	11:AK:98:LYS:C	2.07	0.56
1:AA:1178:G:OP2	12:AL:93:ARG:NH1	2.39	0.56
14:AN:20:TYR:O	14:AN:30:VAL:HA	2.05	0.56
16:AP:77:ASN:HA	16:AP:80:ARG:CG	2.36	0.56
18:AR:70:LEU:CD2	18:AR:78:TYR:HA	2.35	0.56
22:AV:18:LYS:CE	22:AV:22:LEU:HD12	2.34	0.56
22:AV:40:ILE:CB	22:AV:67:VAL:O	2.50	0.56
22:AV:38:SER:O	22:AV:70:LYS:HG3	2.05	0.56
23:AW:41:ILE:O	23:AW:45:GLN:HG2	2.04	0.56
23:AW:50:GLU:OE1	23:AW:100:ILE:CG1	2.48	0.56
50:B2:52:HIS:CE1	50:B2:53:LEU:HD21	2.40	0.56
25:BA:372:G:O2'	51:B3:63:TYR:CE1	2.57	0.56
52:B4:33:CYS:N	52:B4:37:LYS:O	2.34	0.56
55:B7:60:LEU:O	55:B7:63:PRO:HD2	2.05	0.56
25:BA:1133:U:O2'	25:BA:1134:G:C5'	2.53	0.56
25:BA:1298:C:H5'	25:BA:1302:A:H62	1.70	0.56
25:BA:1420:U:C2	25:BA:1421:G:N7	2.74	0.56
25:BA:1647:G:C5'	25:BA:1648:C:OP1	2.54	0.56
25:BA:1856:G:C2'	25:BA:1857:G:H5'	2.35	0.56
25:BA:1901:A:O2'	25:BA:1902:C:H5'	2.06	0.56
25:BA:1941:C:O4'	25:BA:1965:C:N4	2.38	0.56
25:BA:2048:G:C2'	25:BA:2049:G:O5'	2.54	0.56
25:BA:2344:U:H5''	53:B5:38:LYS:CG	2.35	0.56
25:BA:2402:C:C5	25:BA:2402:C:OP2	2.58	0.56
25:BA:2394:C:N4	25:BA:2422:A:H61	2.03	0.56
25:BA:2584:U:H2'	25:BA:2585:U:C5	2.41	0.56
25:BA:2639:A:C2'	25:BA:2640:G:H5'	2.36	0.56
25:BA:2843:G:C2	25:BA:2844:G:C8	2.93	0.56
25:BA:2880:C:N3	25:BA:2881:C:C5	2.74	0.56
25:BA:330:A:C2	25:BA:1210:A:H2'	2.41	0.56
25:BA:420:C:O2	25:BA:421:U:H1'	2.04	0.56
25:BA:468:G:O6	25:BA:469:G:N3	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:532:A:H3'	25:BA:533:G:O4'	2.04	0.56
25:BA:625:G:N7	37:BO:104:GLY:HA2	2.20	0.56
25:BA:640:C:N4	25:BA:647:G:N1	2.42	0.56
25:BA:663:G:H4'	37:BO:18:ARG:NH1	2.20	0.56
25:BA:775:G:C2'	25:BA:794:G:C8	2.77	0.56
25:BA:876:C:N3	25:BA:901:A:N6	2.53	0.56
25:BA:920:G:C2	25:BA:921:G:C8	2.94	0.56
25:BA:943:U:C4'	25:BA:943:U:OP1	2.54	0.56
26:BB:31:C:N3	26:BB:32:C:C5	2.74	0.56
27:BC:19:ILE:O	27:BC:19:ILE:HG22	2.06	0.56
25:BA:1861:G:C4'	27:BC:205:LYS:HE3	2.35	0.56
27:BC:41:VAL:HG22	27:BC:216:THR:HG22	1.87	0.56
28:BD:111:LEU:N	28:BD:111:LEU:HD22	2.19	0.56
28:BD:138:VAL:HA	28:BD:165:ILE:CG2	2.35	0.56
28:BD:137:PRO:HG2	28:BD:140:THR:OG1	2.04	0.56
28:BD:42:GLY:HA3	28:BD:60:ARG:NH2	2.19	0.56
28:BD:60:ARG:CB	28:BD:62:TYR:CE2	2.89	0.56
30:BF:22:ALA:HB1	30:BF:115:ALA:CB	2.34	0.56
30:BF:188:ARG:CG	30:BF:189:THR:N	2.68	0.56
30:BF:121:GLY:HA3	30:BF:191:ARG:NE	2.20	0.56
31:BG:181:ARG:HG3	31:BG:182:LYS:H	1.71	0.56
32:BH:151:ILE:C	32:BH:151:ILE:HD12	2.26	0.56
32:BH:24:VAL:HG13	32:BH:37:VAL:CG1	2.36	0.56
33:BK:2:LYS:CD	33:BK:39:ALA:CB	2.80	0.56
35:BM:19:GLU:HB2	35:BM:56:ASN:HB3	1.87	0.56
35:BM:89:LYS:HE3	35:BM:90:MET:H	1.69	0.56
35:BM:99:LEU:HD12	35:BM:99:LEU:C	2.26	0.56
36:BN:96:THR:HG22	36:BN:97:ARG:N	2.20	0.56
37:BO:46:LYS:CD	37:BO:50:ARG:HB2	2.36	0.56
37:BO:80:TYR:CD1	37:BO:85:LEU:HD13	2.41	0.56
37:BO:97:PRO:CA	37:BO:102:ARG:CZ	2.84	0.56
38:BP:16:ARG:HG3	38:BP:72:LYS:HD2	1.88	0.56
38:BP:44:ALA:CA	38:BP:47:ILE:HD12	2.18	0.56
41:BS:33:LYS:HB2	41:BS:87:ASP:HB3	1.87	0.56
41:BS:65:LYS:CD	41:BS:75:ILE:HB	2.35	0.56
42:BT:6:THR:O	42:BT:9:VAL:HG23	2.05	0.56
43:BU:30:GLY:O	43:BU:33:VAL:CG2	2.45	0.56
44:BV:31:GLU:N	44:BV:31:GLU:OE1	2.39	0.56
46:BX:18:GLY:C	46:BX:19:LYS:HD3	2.26	0.56
46:BX:72:VAL:O	46:BX:77:PRO:O	2.24	0.56
47:BY:96:VAL:HG13	47:BY:128:VAL:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:4:ARG:HG3	47:BY:44:PHE:HZ	1.68	0.56
48:BZ:37:LEU:HG	48:BZ:59:LEU:O	2.06	0.56
25:BA:2336:A:C2	48:BZ:57:PHE:CZ	2.86	0.56
48:BZ:59:LEU:CD2	48:BZ:79:VAL:HG21	2.36	0.56
25:BA:1061:U:H4'	25:BA:1070:A:H4'	1.88	0.56
34:BL:18:THR:CG2	34:BL:35:MET:HG2	2.36	0.56
34:BL:35:MET:SD	34:BL:39:LYS:HG3	2.46	0.56
5:AE:36:ARG:O	5:AE:37:ASN:C	2.43	0.56
52:B4:28:PRO:O	52:B4:30:LEU:CD1	2.53	0.56
1:AA:1059:C:O2'	13:AM:53:PRO:HD3	2.06	0.56
1:AA:1117:G:C5'	1:AA:1118:C:OP2	2.54	0.56
1:AA:1376:U:O4	10:AJ:10:ARG:HD2	2.05	0.56
1:AA:1378:C:O2	1:AA:1378:C:C2'	2.54	0.56
1:AA:1452:C:H4'	1:AA:1453:G:H5''	1.86	0.56
1:AA:1490:C:OP2	1:AA:1490:C:H6	1.89	0.56
1:AA:264:U:H2'	20:AT:64:PRO:HB2	1.88	0.56
1:AA:389:A:N1	1:AA:390:C:H1'	2.21	0.56
1:AA:539:A:OP2	15:AO:115:LYS:NZ	2.37	0.56
1:AA:59:A:H4'	1:AA:388:G:C5'	2.35	0.56
1:AA:738:C:N4	1:AA:739:C:H41	2.04	0.56
1:AA:739:C:H2'	1:AA:740:U:H5'	1.87	0.56
2:AC:14:A:H2'	2:AC:15:G:H8	1.71	0.56
2:AC:49:G:C8	2:AC:49:G:OP2	2.59	0.56
2:AC:9:G:C2	2:AC:46:G:C8	2.94	0.56
3:AD:9:A:N3	3:AD:46:G:C1'	2.68	0.56
5:AE:43:ASP:OD2	5:AE:46:LYS:N	2.38	0.56
5:AE:68:ILE:HD12	5:AE:70:PHE:CZ	2.41	0.56
1:AA:8:A:H5''	8:AH:121:LYS:HD2	1.87	0.56
8:AH:40:ARG:O	8:AH:41:VAL:HG13	2.06	0.56
8:AH:59:GLY:C	8:AH:63:ARG:HH21	2.08	0.56
9:AI:19:LEU:HD23	9:AI:23:LYS:NZ	2.19	0.56
9:AI:50:TYR:CD2	9:AI:50:TYR:O	2.58	0.56
10:AJ:29:LYS:CD	10:AJ:101:LEU:HD22	2.20	0.56
10:AJ:54:THR:O	10:AJ:54:THR:HG23	2.06	0.56
11:AK:25:ASP:HB3	11:AK:58:TYR:CD1	2.40	0.56
12:AL:34:ASN:OD1	12:AL:43:ALA:CB	2.54	0.56
12:AL:88:TYR:CD2	12:AL:89:ASN:ND2	2.73	0.56
13:AM:82:ILE:O	13:AM:82:ILE:HG22	2.05	0.56
15:AO:45:PRO:HB2	15:AO:49:ASN:O	2.06	0.56
16:AP:29:ARG:NE	16:AP:64:TRP:HE1	2.03	0.56
17:AQ:26:ARG:CB	17:AQ:39:LEU:HD22	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:63:ILE:HG23	23:AW:72:LEU:CD1	2.34	0.56
49:B1:24:LYS:HA	49:B1:52:ILE:CD1	2.36	0.56
50:B2:30:ARG:CD	50:B2:30:ARG:N	2.69	0.56
51:B3:58:ARG:O	51:B3:61:ARG:HB2	2.04	0.56
51:B3:5:ILE:CG1	51:B3:10:VAL:N	2.69	0.56
53:B5:24:GLU:CG	55:B7:37:SER:HA	2.35	0.56
53:B5:36:LEU:O	53:B5:51:GLU:CB	2.23	0.56
53:B5:20:ASN:CG	53:B5:43:CYS:SG	2.85	0.56
37:BO:56:SER:CB	55:B7:13:ARG:CZ	2.83	0.56
25:BA:1114:G:H21	25:BA:1115:G:H1'	1.69	0.56
25:BA:1179:C:O2'	25:BA:1180:C:C6	2.58	0.56
25:BA:1205:U:C2'	25:BA:1206:G:N7	2.69	0.56
25:BA:1234:U:O2'	25:BA:1235:G:H5'	2.05	0.56
25:BA:1491:G:C2	25:BA:1493:C:N4	2.70	0.56
25:BA:1522:G:H2'	25:BA:1523:U:H6	1.69	0.56
25:BA:1566:A:N1	28:BD:215:LEU:CD1	2.50	0.56
25:BA:1709:U:H2'	25:BA:1710:C:C5	2.38	0.56
25:BA:1742:C:C3'	25:BA:1743:G:H4'	2.35	0.56
25:BA:1753:G:O6	25:BA:1756:G:C6	2.59	0.56
25:BA:1829:A:H5''	25:BA:1829:A:C8	2.41	0.56
25:BA:1956:U:C2	25:BA:1957:C:C5	2.94	0.56
25:BA:1955:U:O3'	25:BA:1956:U:H5	1.88	0.56
25:BA:1991:U:H2'	25:BA:1992:G:OP2	2.05	0.56
25:BA:1999:C:O5'	39:BQ:2:ARG:HG3	2.05	0.56
25:BA:2019:A:H3'	25:BA:2020:A:H5''	1.86	0.56
25:BA:2021:C:C2'	25:BA:2022:U:OP1	2.53	0.56
25:BA:2070:G:N1	25:BA:2071:A:C2	2.73	0.56
25:BA:2236:C:N4	25:BA:2237:G:C2	2.74	0.56
25:BA:2296:U:C3'	25:BA:2296:U:C6	2.89	0.56
25:BA:2323:G:O2'	25:BA:2337:G:H4'	2.06	0.56
25:BA:2432:A:H2'	25:BA:2433:A:H8	1.70	0.56
25:BA:2581:G:N2	25:BA:2610:C:H6	2.03	0.56
25:BA:2585:U:C4'	25:BA:2585:U:OP1	2.53	0.56
25:BA:2746:U:C5'	32:BH:139:GLN:HA	2.34	0.56
25:BA:2809:A:N3	25:BA:2809:A:O4'	2.36	0.56
25:BA:2851:A:C2	25:BA:2852:G:N9	2.74	0.56
25:BA:292:C:H6	25:BA:293:U:O4	1.86	0.56
25:BA:29:U:O3'	42:BT:11:ARG:NH2	2.34	0.56
25:BA:306:U:O4	25:BA:310:A:C8	2.59	0.56
25:BA:356:G:C3'	25:BA:357:A:H8	2.17	0.56
25:BA:455:C:H5'	25:BA:472:A:H2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:627:A:H2'	25:BA:628:G:O4'	2.06	0.56
25:BA:68:G:N2	25:BA:74:A:O5'	2.39	0.56
25:BA:705:A:C2'	25:BA:705:A:N3	2.69	0.56
25:BA:741:G:C6	25:BA:757:U:O2	2.59	0.56
25:BA:803:U:C2	25:BA:804:A:C8	2.94	0.56
25:BA:812:C:H1'	25:BA:1250:G:N2	2.21	0.56
25:BA:941:A:H2	25:BA:942:G:N3	2.00	0.56
25:BA:957:A:C4'	25:BA:958:U:OP1	2.51	0.56
25:BA:975:G:N2	25:BA:1156:A:C5	2.73	0.56
27:BC:26:ALA:HB2	27:BC:185:LEU:HB2	1.88	0.56
25:BA:1819:A:OP2	28:BD:157:ARG:NH2	2.39	0.56
28:BD:93:ALA:HB3	28:BD:105:ILE:HG23	1.87	0.56
29:BE:138:PRO:O	29:BE:139:GLY:O	2.24	0.56
30:BF:56:GLU:O	30:BF:58:ALA:O	2.24	0.56
31:BG:44:GLY:O	31:BG:47:LYS:CG	2.53	0.56
31:BG:50:ALA:HA	31:BG:70:VAL:HG22	1.88	0.56
31:BG:74:LYS:O	31:BG:75:LYS:HB2	2.05	0.56
32:BH:170:ARG:O	32:BH:171:LEU:HG	2.06	0.56
35:BM:133:GLN:OE1	35:BM:133:GLN:CA	2.53	0.56
36:BN:111:PHE:O	36:BN:113:LYS:N	2.38	0.56
36:BN:19:ILE:HB	36:BN:42:SER:O	2.05	0.56
37:BO:127:ALA:HB3	37:BO:130:PHE:CZ	2.41	0.56
37:BO:43:GLY:O	37:BO:44:GLY:O	2.23	0.56
37:BO:65:ARG:HH11	37:BO:68:GLN:N	2.02	0.56
37:BO:88:LEU:HD21	37:BO:124:LYS:CE	2.36	0.56
38:BP:12:GLN:O	38:BP:13:GLN:NE2	2.32	0.56
38:BP:66:ILE:O	38:BP:67:ARG:CB	2.54	0.56
38:BP:6:ARG:CG	38:BP:70:PRO:CG	2.83	0.56
42:BT:20:LEU:HB2	42:BT:39:LEU:HD11	1.88	0.56
43:BU:71:LEU:C	43:BU:72:VAL:HG23	2.25	0.56
44:BV:20:VAL:CG1	44:BV:21:VAL:N	2.67	0.56
44:BV:6:ILE:HG22	44:BV:6:ILE:O	2.05	0.56
46:BX:109:GLU:O	46:BX:110:GLU:C	2.43	0.56
47:BY:151:HIS:HB2	47:BY:168:GLU:CG	2.28	0.56
47:BY:35:ARG:CG	47:BY:37:VAL:HG22	2.35	0.56
47:BY:39:VAL:HG21	47:BY:86:VAL:CG2	2.36	0.56
48:BZ:16:SER:O	48:BZ:17:GLN:C	2.44	0.56
25:BA:857:C:H5'	48:BZ:44:ARG:HH22	1.70	0.56
33:BK:93:THR:O	33:BK:96:ASP:HB2	2.06	0.56
25:BA:1081:U:H5''	34:BL:122:ALA:CA	2.35	0.56
34:BL:112:MET:O	34:BL:115:LEU:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BL:16:LYS:O	34:BL:17:ALA:CB	2.54	0.56
34:BL:78:ILE:HG23	34:BL:136:VAL:HG11	1.87	0.56
25:BA:1574:C:H2'	25:BA:1575:C:Cl'	2.34	0.56
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.41	0.56
1:AA:1084:G:C2	1:AA:1085:U:O4	2.59	0.56
1:AA:1157:A:O4'	1:AA:1158:C:N3	2.39	0.56
1:AA:1228:C:O2	1:AA:1228:C:H2'	2.05	0.56
1:AA:124:G:H2'	1:AA:125:U:H6	1.70	0.56
1:AA:1372:U:C5	1:AA:1373:G:N7	2.74	0.56
1:AA:924:C:O2'	1:AA:1399:C:C5	2.58	0.56
1:AA:172:A:N7	1:AA:174:C:N3	2.54	0.56
1:AA:183:G:O6	1:AA:194:C:N3	2.39	0.56
1:AA:410:G:N2	1:AA:429:U:H3	2.02	0.56
1:AA:503:C:OP2	15:AO:116:SER:OG	2.11	0.56
1:AA:518:C:C5	1:AA:530:G:C5	2.94	0.56
1:AA:601:C:H2'	1:AA:602:A:C8	2.41	0.56
1:AA:606:G:N2	1:AA:631:G:H2'	2.16	0.56
1:AA:728:A:N3	1:AA:728:A:H2'	2.19	0.56
1:AA:582:U:C4	1:AA:760:G:O6	2.59	0.56
1:AA:7:G:H21	8:AH:121:LYS:CG	2.18	0.56
2:AC:18:G:C4	2:AC:58:A:C2	2.94	0.56
2:AC:35:A:C8	2:AC:35:A:C5'	2.88	0.56
3:AD:35:A:H2'	3:AD:36:A:C8	2.40	0.56
3:AD:72:C:H6	3:AD:72:C:OP2	1.89	0.56
5:AE:187:LEU:HD22	5:AE:188:ALA:N	2.21	0.56
5:AE:232:PRO:O	5:AE:233:SER:OG	2.12	0.56
5:AE:23:ARG:C	5:AE:23:ARG:HH11	2.09	0.56
6:AF:84:ILE:HG13	6:AF:101:LEU:HD13	1.88	0.56
7:AG:127:THR:O	7:AG:146:ILE:CG2	2.54	0.56
7:AG:3:ARG:NH2	7:AG:74:GLN:OE1	2.38	0.56
8:AH:48:ALA:CB	8:AH:53:LEU:HB2	2.36	0.56
8:AH:50:GLU:HB2	8:AH:53:LEU:HG	1.87	0.56
9:AI:65:VAL:HG23	9:AI:66:GLU:O	2.06	0.56
10:AJ:49:ILE:HG21	10:AJ:121:ALA:HB1	1.86	0.56
11:AK:26:VAL:C	11:AK:58:TYR:CE1	2.79	0.56
11:AK:33:GLU:HG2	11:AK:59:LEU:CD1	2.29	0.56
14:AN:126:ARG:NH1	14:AN:126:ARG:HB3	2.20	0.56
18:AR:53:HIS:CD2	18:AR:57:LEU:HD11	2.41	0.56
1:AA:186:C:H1'	23:AW:85:MET:SD	2.45	0.56
49:B1:17:GLU:O	49:B1:20:VAL:HG12	2.06	0.56
49:B1:36:ILE:CG2	49:B1:37:GLY:H	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B1:5:LEU:O	49:B1:9:ARG:HG2	2.06	0.56
51:B3:29:PRO:HG2	51:B3:30:GLU:N	2.21	0.56
52:B4:45:VAL:HG23	52:B4:46:CYS:H	1.71	0.56
53:B5:17:LYS:HZ3	53:B5:49:HIS:C	2.09	0.56
55:B7:3:LYS:HE2	55:B7:59:LYS:HE2	1.87	0.56
55:B7:52:LYS:C	55:B7:54:GLU:OE1	2.43	0.56
56:B8:19:ARG:C	56:B8:20:HIS:ND1	2.59	0.56
25:BA:1021:A:N6	25:BA:1023:U:C4	2.73	0.56
25:BA:1142(A):A:H2'	25:BA:1142(A):A:N3	2.20	0.56
25:BA:1275:A:C2	39:BQ:16:HIS:CA	2.74	0.56
25:BA:1387:C:H2'	25:BA:1388:G:C8	2.40	0.56
25:BA:1417:C:N4	25:BA:1581:G:C6	2.71	0.56
25:BA:1537:C:H3'	25:BA:1537:C:C6	2.41	0.56
25:BA:1541:U:O2	25:BA:1541:U:C2'	2.50	0.56
25:BA:1448:G:O3'	25:BA:1543:A:C6	2.59	0.56
25:BA:1650:G:O2'	25:BA:1651:G:P	2.63	0.56
25:BA:1765:C:O2'	25:BA:1766:U:H5'	2.05	0.56
25:BA:752:A:H61	25:BA:1781:C:H1'	1.70	0.56
25:BA:1790:C:O3'	28:BD:209:ALA:CB	2.52	0.56
25:BA:1824:G:H2'	25:BA:1825:A:O4'	2.06	0.56
25:BA:1918:A:C5	25:BA:1919:A:N6	2.74	0.56
25:BA:1946:U:H2'	25:BA:1947:C:C6	2.40	0.56
25:BA:1992:G:N7	25:BA:1997:G:C5	2.74	0.56
25:BA:2014:A:N3	25:BA:2015:A:H2	2.00	0.56
25:BA:2020:A:H2'	25:BA:2021:C:O5'	2.05	0.56
25:BA:2103:C:O2'	25:BA:2104:G:H5'	2.05	0.56
25:BA:2210:G:O2'	25:BA:2211:G:O5'	2.24	0.56
25:BA:2238:G:H1'	25:BA:2240:C:C5	2.35	0.56
25:BA:2287:A:C8	25:BA:2289:G:N7	2.70	0.56
25:BA:410:G:O2'	25:BA:2407:G:OP2	2.14	0.56
25:BA:2447:G:C8	25:BA:2501:C:C6	2.94	0.56
25:BA:2474:C:H2'	25:BA:2475:C:C5'	2.35	0.56
25:BA:2472:G:H3'	25:BA:2475:C:H42	1.69	0.56
25:BA:2483:C:C2	25:BA:2484:G:C8	2.93	0.56
25:BA:2458:G:C8	25:BA:2490:G:C6	2.94	0.56
25:BA:2447:G:C1'	25:BA:2501:C:C5	2.81	0.56
25:BA:2500:U:H4'	25:BA:2501:C:OP2	2.02	0.56
25:BA:2574:G:H2'	25:BA:2575:C:C6	2.41	0.56
25:BA:1939:U:O2'	25:BA:2592:G:H1'	2.05	0.56
25:BA:262:A:H2'	25:BA:263:C:O5'	2.06	0.56
25:BA:270(D):C:O3'	25:BA:270(E):G:O4'	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:271:G:N2	25:BA:272:G:N9	2.54	0.56
25:BA:2853:C:H2'	25:BA:2854:G:H8	1.70	0.56
25:BA:374:A:H1'	25:BA:423:A:C2	2.36	0.56
25:BA:484:C:H2'	25:BA:485:C:H6	1.66	0.56
25:BA:489:G:C2	25:BA:491:G:C4	2.94	0.56
25:BA:531:C:O2	42:BT:28:ARG:NH2	2.37	0.56
25:BA:53:A:H62	25:BA:117:G:H21	1.51	0.56
25:BA:603:A:H2'	25:BA:604:G:C8	2.40	0.56
25:BA:709:U:H6	25:BA:709:U:O5'	1.88	0.56
25:BA:729:G:H2'	25:BA:730:C:C2'	2.35	0.56
25:BA:738:G:H1'	25:BA:759:G:N2	2.21	0.56
25:BA:746:A:N7	25:BA:2611:U:H4'	2.20	0.56
25:BA:860:U:C6	25:BA:860:U:H3'	2.41	0.56
25:BA:961:C:O2'	25:BA:962:G:OP1	2.24	0.56
26:BB:104:A:C2'	26:BB:105:G:H5'	2.36	0.56
27:BC:192:PHE:O	27:BC:196:LEU:HB2	2.05	0.56
28:BD:121:PRO:HA	28:BD:135:PHE:CE2	2.36	0.56
25:BA:1792:G:OP1	28:BD:206:LEU:CD2	2.54	0.56
29:BE:133:LYS:NZ	29:BE:138:PRO:HD3	2.20	0.56
29:BE:138:PRO:O	29:BE:138:PRO:HG2	2.06	0.56
29:BE:22:PRO:HA	29:BE:185:LYS:N	2.20	0.56
30:BF:23:ASP:HB3	30:BF:25:PRO:HD2	1.86	0.56
31:BG:174:GLU:HB2	31:BG:179:PRO:HB3	1.87	0.56
31:BG:44:GLY:CA	31:BG:47:LYS:HB3	2.36	0.56
31:BG:82:LEU:N	31:BG:82:LEU:HD23	2.20	0.56
32:BH:95:ARG:O	32:BH:105:LEU:HA	2.06	0.56
32:BH:139:GLN:HG3	32:BH:140:LYS:N	2.20	0.56
35:BM:103:VAL:HG23	35:BM:117:PHE:CE1	2.41	0.56
35:BM:25:ARG:CA	35:BM:28:THR:HG23	2.35	0.56
36:BN:11:ALA:N	36:BN:17:ARG:HG3	2.21	0.56
36:BN:22:ILE:HB	36:BN:40:VAL:CG1	2.33	0.56
38:BP:34:LEU:HB2	38:BP:103:MET:O	2.06	0.56
38:BP:54:MET:HE1	38:BP:118:LEU:N	2.21	0.56
38:BP:125:LEU:HB3	38:BP:126:PRO:HD2	1.87	0.56
39:BQ:17:ARG:O	39:BQ:20:LEU:HB3	2.06	0.56
41:BS:11:GLU:HB3	41:BS:59:THR:CG2	2.36	0.56
41:BS:28:VAL:H	41:BS:94:ALA:HA	1.71	0.56
43:BU:27:ALA:C	43:BU:29:PRO:HD2	2.26	0.56
44:BV:74:ALA:HB2	44:BV:105:VAL:CG2	2.21	0.56
45:BW:3:THR:N	45:BW:5:TYR:CD2	2.73	0.56
45:BW:3:THR:N	45:BW:5:TYR:CE2	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:103:ARG:HA	47:BY:103:ARG:HE	1.71	0.56
47:BY:27:VAL:HG13	47:BY:34:ASN:HD22	1.71	0.56
47:BY:4:ARG:HD3	47:BY:38:TYR:C	2.25	0.56
48:BZ:19:LYS:NZ	48:BZ:41:ARG:HH21	2.02	0.56
33:BK:86:THR:HG22	33:BK:87:LYS:HG3	1.88	0.56
34:BL:108:ALA:HB1	34:BL:123:ALA:CB	2.36	0.56
34:BL:17:ALA:O	34:BL:18:THR:HG23	2.05	0.56
39:BQ:60:LEU:CD2	39:BQ:60:LEU:H	2.06	0.56
1:AA:1066:C:C6	1:AA:1067:A:N7	2.74	0.56
1:AA:105:G:C6	1:AA:106:C:N4	2.74	0.56
1:AA:1259:C:H2'	1:AA:1283:G:O2'	2.05	0.56
1:AA:1327:C:O2'	1:AA:1328:C:H5'	2.06	0.56
1:AA:142:G:H2'	1:AA:143:A:C8	2.41	0.56
1:AA:328:C:O2'	1:AA:329:A:P	2.63	0.56
1:AA:354:G:C6	1:AA:355:C:N4	2.74	0.56
1:AA:389:A:C2	1:AA:390:C:O4'	2.58	0.56
1:AA:426:G:H2'	1:AA:427:U:C6	2.41	0.56
1:AA:449:C:H2'	1:AA:450:G:C4'	2.36	0.56
1:AA:575:G:O2'	1:AA:576:G:O5'	2.24	0.56
1:AA:628:G:C2'	1:AA:629:G:H8	2.17	0.56
1:AA:720:C:C6	1:AA:720:C:O5'	2.59	0.56
1:AA:872:A:C6	1:AA:874:G:C5	2.94	0.56
1:AA:877:C:H2'	1:AA:878:G:C8	2.41	0.56
2:AC:69:C:O2'	2:AC:70:G:H5'	2.05	0.56
3:AD:52:G:H2'	3:AD:53:G:O4'	2.06	0.56
3:AD:55:U:O2'	3:AD:57:G:N7	2.39	0.56
5:AE:120:ALA:O	5:AE:122:PHE:HB2	2.06	0.56
5:AE:146:GLN:O	5:AE:147:LYS:C	2.44	0.56
5:AE:80:ILE:O	5:AE:84:GLU:HB2	2.05	0.56
5:AE:78:GLN:NE2	5:AE:96:ARG:HH22	2.04	0.56
6:AF:119:ARG:NH2	6:AF:140:ARG:HH22	2.04	0.56
7:AG:205:GLU:OE1	8:AH:100:VAL:HG23	2.06	0.56
9:AI:64:GLN:C	9:AI:65:VAL:CG1	2.75	0.56
9:AI:67:MET:HE3	9:AI:67:MET:N	2.21	0.56
11:AK:102:ARG:O	11:AK:103:VAL:O	2.22	0.56
15:AO:6:THR:O	15:AO:10:LEU:CG	2.53	0.56
15:AO:92:ASP:CB	15:AO:93:LEU:HD23	2.36	0.56
16:AP:24:GLY:HA3	16:AP:66:LEU:HB2	1.86	0.56
18:AR:36:ILE:CG1	18:AR:59:MET:SD	2.94	0.56
18:AR:5:LYS:HZ2	18:AR:5:LYS:HB2	1.71	0.56
18:AR:71:GLN:HA	18:AR:75:PRO:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:82:THR:HG23	21:AU:82:THR:O	2.05	0.56
22:AV:53:ASN:OD1	22:AV:56:GLN:HB2	2.06	0.56
25:BA:989:G:OP2	50:B2:12:PRO:CG	2.54	0.56
50:B2:3:ARG:O	50:B2:59:VAL:O	2.23	0.56
51:B3:2:LYS:O	51:B3:3:GLU:HB3	2.06	0.56
25:BA:83:G:O6	25:BA:102:G:C2	2.58	0.56
25:BA:107:C:O2'	25:BA:108:U:H5'	2.05	0.56
25:BA:116:C:H2'	25:BA:117:G:O5'	2.05	0.56
25:BA:1237:A:HO2'	25:BA:1238:G:C4'	2.18	0.56
25:BA:1267:U:H5	25:BA:2012:G:N2	2.04	0.56
25:BA:1291:C:H5'	25:BA:1535:U:HO2'	1.66	0.56
25:BA:1448:G:O6	25:BA:1464:C:N4	2.39	0.56
25:BA:1506:C:N3	25:BA:1507:A:H1'	2.20	0.56
25:BA:1535:U:H2'	25:BA:1536:A:C8	2.41	0.56
25:BA:1497:U:N3	25:BA:1577:C:O5'	2.32	0.56
25:BA:1612:C:O3'	54:B6:5:TRP:CD1	2.58	0.56
25:BA:1638:C:H6	25:BA:1638:C:O5'	1.88	0.56
25:BA:1657:C:C2'	25:BA:1658:C:O4'	2.54	0.56
25:BA:1670:C:C6	25:BA:1671:U:C5	2.94	0.56
25:BA:1688:U:N3	25:BA:1700:A:H5''	2.20	0.56
25:BA:1820:U:O2'	25:BA:1821:A:P	2.64	0.56
25:BA:1834:U:H1'	25:BA:1969:A:C2	2.41	0.56
25:BA:2043:C:O2	25:BA:2044:C:C6	2.59	0.56
25:BA:2279:G:C2	25:BA:2280:G:C8	2.93	0.56
25:BA:2370:G:C5	25:BA:2371:G:N7	2.74	0.56
25:BA:412:A:N7	25:BA:2412:A:N3	2.53	0.56
25:BA:2472:G:N2	25:BA:2477:C:OP1	2.29	0.56
25:BA:2564:A:C4	25:BA:2565:A:N7	2.74	0.56
25:BA:2520:C:C5	25:BA:2567:G:C4	2.94	0.56
25:BA:2602:A:H1'	48:BZ:1:MET:C	2.26	0.56
25:BA:2603:G:C2'	25:BA:2604:U:O5'	2.54	0.56
25:BA:221:A:N6	25:BA:266:G:C5	2.69	0.56
25:BA:2682:U:O2'	25:BA:2683:C:OP1	2.24	0.56
25:BA:2777:G:C8	25:BA:2777:G:O5'	2.56	0.56
25:BA:280:C:N4	25:BA:283:A:H62	1.96	0.56
25:BA:282:A:C4	25:BA:283:A:O3'	2.59	0.56
25:BA:319:C:C2	25:BA:320:A:C8	2.94	0.56
25:BA:371:A:H62	25:BA:424:G:C4'	2.19	0.56
25:BA:508:G:H5''	25:BA:509:C:OP1	2.06	0.56
25:BA:547:A:H2'	25:BA:548:A:H8	1.70	0.56
25:BA:577:G:H2'	25:BA:578:A:O4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:627:A:H61	25:BA:638:G:C1'	2.16	0.56
25:BA:646:A:C2	25:BA:647:G:C5	2.93	0.56
25:BA:691:C:C1'	28:BD:45:ASN:HD21	2.15	0.56
25:BA:762:U:H4'	25:BA:763:G:N3	2.20	0.56
25:BA:785:G:C2	25:BA:786:C:C6	2.94	0.56
25:BA:799:G:OP1	25:BA:800:A:H3'	2.06	0.56
25:BA:893:C:C2	25:BA:894:C:C5	2.94	0.56
26:BB:65:C:C2'	26:BB:66:A:H5'	2.35	0.56
26:BB:82:G:O2'	26:BB:83:G:O5'	2.21	0.56
26:BB:85:G:C4	26:BB:92:G:N2	2.74	0.56
27:BC:108:MET:C	27:BC:110:PHE:H	2.09	0.56
25:BA:2811:G:OP1	29:BE:60:ASN:HB3	2.05	0.56
29:BE:97:LYS:HD2	29:BE:98:PRO:HD2	1.87	0.56
30:BF:113:ALA:HB2	30:BF:183:VAL:HG13	1.88	0.56
30:BF:182:ASN:O	30:BF:182:ASN:OD1	2.24	0.56
30:BF:41:LEU:O	30:BF:44:ARG:CZ	2.54	0.56
32:BH:153:LYS:CB	32:BH:162:ILE:HG23	2.35	0.56
32:BH:10:PRO:HA	32:BH:49:VAL:HA	1.88	0.56
33:BK:31:LEU:N	33:BK:32:PRO:HD2	2.21	0.56
33:BK:6:LEU:HD22	33:BK:7:GLU:CD	2.25	0.56
35:BM:7:LYS:CD	35:BM:39:ARG:HH12	2.19	0.56
35:BM:37:LYS:NZ	35:BM:43:THR:HA	2.20	0.56
36:BN:68:GLU:OE1	36:BN:102:VAL:HG13	2.06	0.56
36:BN:60:ALA:O	36:BN:83:ALA:CB	2.53	0.56
37:BO:47:ASP:O	37:BO:49:ARG:N	2.39	0.56
38:BP:22:LYS:CD	38:BP:99:PRO:HG3	2.28	0.56
40:BR:13:ARG:NH2	40:BR:90:GLY:O	2.32	0.56
41:BS:4:GLY:O	41:BS:8:LYS:CB	2.54	0.56
42:BT:69:CYS:HB3	42:BT:79:PHE:CD2	2.41	0.56
43:BU:40:LEU:CG	43:BU:55:ALA:N	2.67	0.56
43:BU:69:LYS:CG	43:BU:70:ILE:H	2.18	0.56
43:BU:92:THR:OG1	43:BU:93:GLU:N	2.39	0.56
43:BU:62:LEU:CD1	43:BU:98:GLU:HA	2.36	0.56
45:BW:89:ILE:O	45:BW:92:LEU:HB2	2.06	0.56
45:BW:89:ILE:O	45:BW:92:LEU:HD13	2.06	0.56
46:BX:39:VAL:O	46:BX:40:GLU:HB2	2.06	0.56
33:BK:130:TYR:CD1	33:BK:130:TYR:N	2.73	0.56
51:B3:13:ARG:O	51:B3:14:ILE:CB	2.54	0.56
25:BA:315:G:H2'	25:BA:316:C:O4'	2.06	0.56
1:AA:1075:C:H4'	1:AA:1101:A:H62	1.71	0.56
1:AA:1090:U:O2'	1:AA:1091:U:C5'	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1101:A:O2'	1:AA:1102:A:C8	2.59	0.56
1:AA:1206:G:O2'	1:AA:1207:G:H5'	2.06	0.56
1:AA:1225:A:OP2	16:AP:102:ARG:O	2.24	0.56
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.36	0.56
1:AA:322:C:OP1	1:AA:1436:U:H4'	2.06	0.56
1:AA:1437:C:C6	1:AA:1437:C:OP2	2.59	0.56
1:AA:179:A:C2'	1:AA:180:U:H6	2.19	0.56
1:AA:230:G:O2'	1:AA:231:G:H5'	2.06	0.56
1:AA:342:C:H2'	1:AA:343:U:H6	1.71	0.56
1:AA:160:A:O4'	1:AA:344:A:N7	2.38	0.56
1:AA:392:G:O2'	1:AA:393:A:H5'	2.05	0.56
1:AA:543:C:N3	1:AA:544:G:N7	2.54	0.56
1:AA:675:A:H8	1:AA:675:A:O5'	1.87	0.56
1:AA:740:U:O2'	1:AA:741:G:C5'	2.54	0.56
1:AA:767:A:H3'	1:AA:767:A:C8	2.41	0.56
1:AA:800:G:H2'	1:AA:801:U:OP2	2.06	0.56
1:AA:812:C:H4'	1:AA:813:U:H6	1.69	0.56
1:AA:874:G:C2'	1:AA:875:C:H5'	2.36	0.56
1:AA:908:A:C2	1:AA:909:A:N7	2.74	0.56
5:AE:92:TYR:O	5:AE:152:PHE:CA	2.54	0.56
5:AE:102:LEU:HD22	5:AE:176:GLU:CB	2.35	0.56
7:AG:20:TYR:CB	7:AG:26:CYS:O	2.54	0.56
7:AG:59:ARG:HH11	7:AG:59:ARG:HA	1.68	0.56
8:AH:76:ILE:HD12	8:AH:142:LEU:CD1	2.34	0.56
9:AI:68:PRO:HB2	9:AI:71:ARG:CG	2.36	0.56
9:AI:89:MET:CB	21:AU:76:LEU:HD21	2.36	0.56
10:AJ:3:ARG:O	10:AJ:4:ARG:CG	2.52	0.56
10:AJ:71:PRO:HD3	10:AJ:103:TRP:HZ3	1.71	0.56
10:AJ:89:MET:HB3	10:AJ:155:ARG:HH12	1.71	0.56
11:AK:102:ARG:NH2	11:AK:105:ARG:C	2.59	0.56
12:AL:37:PHE:CD1	12:AL:43:ALA:HA	2.40	0.56
12:AL:46:ALA:HA	12:AL:78:LYS:HB2	1.88	0.56
16:AP:67:GLU:HG3	16:AP:68:GLY:N	2.14	0.56
18:AR:67:LEU:O	18:AR:78:TYR:CE1	2.54	0.56
19:AS:37:GLY:HA2	19:AS:50:LYS:O	2.05	0.56
23:AW:100:ILE:O	23:AW:102:GLY:N	2.37	0.56
52:B4:34:PRO:HD3	52:B4:40:LYS:HD2	1.87	0.56
52:B4:45:VAL:HG23	52:B4:46:CYS:N	2.20	0.56
25:BA:1612:C:C2	54:B6:3:ARG:NH2	2.74	0.56
25:BA:1044:G:H5''	25:BA:1047:G:O2'	2.06	0.56
25:BA:1127:A:C5	25:BA:2518:A:C2	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1131:G:N2	35:BM:72:TYR:OH	2.38	0.56
25:BA:1197:G:C5	25:BA:1198:U:C5	2.94	0.56
25:BA:1287:A:H2'	25:BA:1287:A:N3	2.21	0.56
25:BA:1366:A:N1	25:BA:1367:A:C4	2.74	0.56
25:BA:1358:G:H2'	25:BA:1371:G:N2	2.20	0.56
25:BA:1344:G:H22	25:BA:1404:C:H1'	1.70	0.56
25:BA:1498:C:H3'	25:BA:1499:C:H6	1.71	0.56
25:BA:1499:C:C2'	25:BA:1500:G:H8	2.18	0.56
25:BA:1742:C:H2'	25:BA:1743:G:C4'	2.35	0.56
25:BA:1753:G:H3'	25:BA:1753:G:C8	2.40	0.56
25:BA:1814:G:C2'	25:BA:1815:A:C8	2.88	0.56
25:BA:1815:A:OP1	25:BA:1822:G:H4'	2.06	0.56
25:BA:1851:U:C2'	25:BA:1852:C:C6	2.81	0.56
25:BA:1864:U:H4'	25:BA:2409:G:N2	2.20	0.56
25:BA:1926:U:O2	25:BA:1928:A:C8	2.59	0.56
25:BA:193:U:C2	25:BA:194:G:C8	2.94	0.56
25:BA:1764:G:C6	25:BA:1989:G:C2	2.94	0.56
25:BA:2032:G:O6	25:BA:2454:G:O4'	2.23	0.56
25:BA:2307:G:H2'	25:BA:2308:G:HO2'	1.70	0.56
25:BA:2426:A:C3'	25:BA:2427:C:C5'	2.82	0.56
25:BA:2032:G:N1	25:BA:2454:G:H1'	2.21	0.56
25:BA:2531:A:C2	25:BA:2532:G:C8	2.94	0.56
25:BA:2844:G:N2	25:BA:2845:G:N9	2.54	0.56
25:BA:291:C:N4	25:BA:292:C:N4	2.53	0.56
25:BA:292:C:H3'	25:BA:293:U:H3	1.62	0.56
25:BA:449:A:H2	25:BA:450:G:C4	2.24	0.56
25:BA:499:U:H6	25:BA:500:G:O4'	1.89	0.56
25:BA:574:C:H1'	25:BA:2055:C:C5	2.41	0.56
25:BA:590:A:H5''	30:BF:95:ARG:HD2	1.87	0.56
25:BA:627:A:C2'	25:BA:628:G:O4'	2.54	0.56
25:BA:64:A:C2	25:BA:65:C:C6	2.94	0.56
25:BA:701:G:N1	25:BA:732:C:C4	2.73	0.56
25:BA:797:C:C2	25:BA:798:G:C8	2.94	0.56
25:BA:958:U:C5	38:BP:41:TRP:CZ3	2.91	0.56
25:BA:965:C:H1'	25:BA:2273:A:C2	2.41	0.56
25:BA:974:G:H4'	25:BA:1187:G:O4'	2.06	0.56
25:BA:979:G:H3'	25:BA:979:G:C8	2.41	0.56
25:BA:981:A:C8	25:BA:982:C:C5	2.89	0.56
25:BA:977:G:N7	25:BA:987:G:N1	2.54	0.56
26:BB:54:G:H2'	26:BB:55:U:H6	1.70	0.56
27:BC:162:GLU:CG	27:BC:163:PHE:N	2.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:175:LEU:HD13	28:BD:176:ARG:C	2.27	0.56
28:BD:16:MET:O	28:BD:19:ALA:CB	2.54	0.56
25:BA:779:U:OP1	28:BD:50:THR:HB	2.05	0.56
28:BD:59:LYS:O	28:BD:60:ARG:HG2	2.05	0.56
28:BD:64:ILE:O	28:BD:64:ILE:CG2	2.54	0.56
29:BE:167:VAL:HG23	29:BE:189:PRO:CB	2.24	0.56
29:BE:2:LYS:NZ	29:BE:83:ASP:HB3	2.21	0.56
29:BE:90:THR:O	29:BE:90:THR:HG23	2.06	0.56
25:BA:600:G:O2'	30:BF:104:LYS:HE2	2.06	0.56
30:BF:41:LEU:HG	30:BF:42:ALA:H	1.70	0.56
16:AP:3:ARG:HE	31:BG:113:ARG:NE	2.03	0.56
31:BG:125:PHE:HE2	31:BG:128:ARG:HB3	1.71	0.56
31:BG:44:GLY:O	31:BG:47:LYS:HB3	2.06	0.56
32:BH:125:VAL:O	32:BH:127:GLU:N	2.39	0.56
37:BO:128:HIS:N	37:BO:128:HIS:ND1	2.53	0.56
25:BA:662:G:H5''	37:BO:19:VAL:HG13	1.87	0.56
25:BA:810:U:C2	37:BO:29:LYS:HA	2.37	0.56
37:BO:97:PRO:CA	37:BO:102:ARG:NE	2.68	0.56
39:BQ:94:TYR:C	39:BQ:117:VAL:HG12	2.26	0.56
40:BR:59:LYS:HA	40:BR:65:VAL:CG1	2.33	0.56
42:BT:36:ARG:O	42:BT:40:PHE:HD1	1.88	0.56
25:BA:533:G:HO2'	42:BT:45:TYR:HD2	1.49	0.56
43:BU:83:ARG:HH21	43:BU:85:LYS:CD	2.06	0.56
44:BV:24:ILE:HG22	44:BV:35:ILE:HG23	1.87	0.56
45:BW:14:SER:OG	45:BW:16:LYS:HE3	2.06	0.56
46:BX:12:THR:HG22	46:BX:13:VAL:CG1	2.36	0.56
33:BK:99:GLU:HA	33:BK:102:SER:HB3	1.86	0.56
34:BL:106:GLU:HA	34:BL:109:LYS:CD	2.36	0.56
25:BA:1076:C:O2'	34:BL:90:LYS:HB3	2.05	0.56
25:BA:1629:U:O2'	25:BA:1630:G:H5'	2.06	0.56
25:BA:128:C:H2'	25:BA:129:C:H6	1.69	0.56
46:BX:104:GLY:O	46:BX:105:ALA:C	2.44	0.56
1:AA:1074:G:C4	1:AA:1075:C:C6	2.95	0.55
1:AA:1259:C:C2	1:AA:1283:G:H1'	2.41	0.55
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.41	0.55
1:AA:1432:G:C5'	41:BS:111:ARG:NH1	2.69	0.55
1:AA:197:A:N6	1:AA:220:G:O2'	2.36	0.55
1:AA:230:G:H21	1:AA:231:G:H1'	1.71	0.55
1:AA:357:G:OP1	1:AA:367:U:H3'	2.06	0.55
1:AA:479:C:O5'	1:AA:479:C:H6	1.89	0.55
1:AA:608:A:H2'	1:AA:608:A:N3	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:623:C:H2'	1:AA:624:C:H6	1.71	0.55
1:AA:675:A:N1	1:AA:716:A:C2	2.74	0.55
1:AA:791:G:OP2	1:AA:792:A:OP2	2.23	0.55
1:AA:795:C:H4'	1:AA:1506:U:C2	2.41	0.55
1:AA:855:G:H5''	1:AA:871:U:O4	2.05	0.55
1:AA:991:U:C2'	1:AA:993:G:H8	2.19	0.55
2:AC:74:C:N4	48:BZ:4:LYS:NZ	2.55	0.55
3:AD:51:C:H2'	3:AD:52:G:C8	2.41	0.55
3:AD:58:A:O2'	3:AD:59:U:P	2.64	0.55
5:AE:21:ARG:HA	5:AE:39:ILE:HA	1.87	0.55
5:AE:23:ARG:HB2	5:AE:23:ARG:NH1	2.21	0.55
5:AE:7:VAL:HG23	5:AE:8:LYS:N	2.21	0.55
6:AF:11:ARG:NH1	6:AF:15:THR:CG2	2.68	0.55
6:AF:110:ASN:ND2	6:AF:140:ARG:O	2.39	0.55
6:AF:172:ARG:NH2	6:AF:203:PHE:HE2	2.04	0.55
6:AF:25:GLY:O	6:AF:28:GLN:NE2	2.38	0.55
7:AG:162:LEU:O	7:AG:166:LYS:HG3	2.06	0.55
8:AH:120:THR:O	8:AH:120:THR:HG23	2.04	0.55
1:AA:1194:U:C4'	8:AH:22:GLY:O	2.52	0.55
9:AI:62:TRP:CB	21:AU:35:ARG:NH1	2.64	0.55
10:AJ:49:ILE:O	10:AJ:53:LYS:HB2	2.05	0.55
10:AJ:76:ARG:HD3	10:AJ:89:MET:HE1	1.88	0.55
11:AK:37:ARG:CD	11:AK:38:ILE:HD13	2.36	0.55
12:AL:19:LEU:HD23	12:AL:60:ASP:C	2.27	0.55
12:AL:67:GLY:O	12:AL:73:GLN:NE2	2.39	0.55
13:AM:49:VAL:O	13:AM:60:ARG:CA	2.54	0.55
1:AA:1229:A:OP1	16:AP:116:THR:HG22	2.06	0.55
18:AR:18:PHE:CZ	18:AR:21:ASP:HB2	2.41	0.55
19:AS:23:ASP:O	19:AS:25:ARG:N	2.33	0.55
1:AA:376:G:OP1	19:AS:6:LEU:HD13	2.06	0.55
22:AV:15:LEU:CD2	22:AV:38:SER:HB3	2.37	0.55
23:AW:23:ARG:O	23:AW:26:ASN:ND2	2.39	0.55
23:AW:34:LYS:CB	23:AW:38:LYS:HE3	2.36	0.55
23:AW:88:VAL:HG12	23:AW:92:LEU:CD1	2.35	0.55
49:B1:58:VAL:HG22	49:B1:59:LEU:H	1.70	0.55
49:B1:61:GLU:O	49:B1:65:GLN:HB2	2.06	0.55
50:B2:25:ALA:O	50:B2:27:GLY:N	2.39	0.55
25:BA:2623:G:H22	52:B4:22:HIS:HE1	1.45	0.55
55:B7:26:LYS:HG3	55:B7:45:GLY:O	2.05	0.55
55:B7:23:VAL:HG22	55:B7:47:LYS:C	2.26	0.55
25:BA:975:G:N7	25:BA:1186:G:N2	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1221:C:H2'	25:BA:1221:C:O2	2.04	0.55
25:BA:1258:C:C4'	30:BF:84:VAL:HG21	2.36	0.55
25:BA:1341:U:C5	25:BA:1397:U:H2'	2.41	0.55
25:BA:1351:C:N4	25:BA:1381:G:C6	2.74	0.55
25:BA:1373:A:C8	25:BA:1374:G:C8	2.94	0.55
25:BA:1449:A:C8	25:BA:1529:A:C2	2.93	0.55
25:BA:1498:C:C5	25:BA:1576:U:O2'	2.57	0.55
25:BA:14:A:C8	25:BA:15:G:C1'	2.89	0.55
25:BA:1641:A:C5'	25:BA:1642:G:OP2	2.54	0.55
25:BA:1814:G:O4'	28:BD:52:ARG:NH1	2.39	0.55
25:BA:1826:G:OP1	28:BD:233:HIS:HD2	1.89	0.55
25:BA:1906:G:N3	25:BA:1907:G:C8	2.74	0.55
25:BA:2066:C:H2'	25:BA:2066:C:O2	2.06	0.55
25:BA:2207:C:C3'	25:BA:2208:U:C5'	2.84	0.55
25:BA:2082:A:H61	25:BA:2237:G:H1'	1.71	0.55
25:BA:2345:G:C2	25:BA:2381:C:C2	2.94	0.55
25:BA:2459:A:N3	25:BA:2460:U:N1	2.53	0.55
25:BA:2459:A:C6	25:BA:2493:U:C4	2.95	0.55
25:BA:2074:U:C2'	25:BA:2597:G:H21	2.15	0.55
25:BA:2075:U:C6	25:BA:2597:G:N2	2.69	0.55
25:BA:2660:A:H2'	25:BA:2661:G:C5'	2.36	0.55
25:BA:2666:C:H3'	25:BA:2667:C:H5'	1.87	0.55
25:BA:2702:U:C3'	25:BA:2702:U:C6	2.89	0.55
25:BA:292:C:C6	25:BA:293:U:C4	2.94	0.55
25:BA:266:G:N2	25:BA:427:U:N3	2.54	0.55
25:BA:526:A:H61	25:BA:2626:C:H5'	1.71	0.55
25:BA:55:G:N3	25:BA:56:A:C8	2.74	0.55
25:BA:674:G:C1'	30:BF:74:ARG:HH22	2.18	0.55
25:BA:674:G:H1'	30:BF:74:ARG:HH22	1.71	0.55
25:BA:832:G:O2'	25:BA:833:U:O5'	2.25	0.55
25:BA:943:U:H3'	25:BA:943:U:H6	1.71	0.55
26:BB:71:C:C2'	26:BB:72:G:C5'	2.74	0.55
28:BD:118:VAL:HG12	28:BD:119:ALA:H	1.70	0.55
28:BD:69:ARG:C	28:BD:71:ASP:N	2.59	0.55
28:BD:90:ALA:C	28:BD:91:ARG:NH1	2.60	0.55
29:BE:167:VAL:O	29:BE:168:MET:O	2.24	0.55
29:BE:91:VAL:HG13	29:BE:93:VAL:CG2	2.33	0.55
29:BE:92:THR:H	29:BE:95:ILE:CD1	2.19	0.55
25:BA:443:A:N6	30:BF:41:LEU:HD11	2.20	0.55
32:BH:149:ARG:O	32:BH:162:ILE:CG2	2.54	0.55
32:BH:107:VAL:HG11	32:BH:152:ARG:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:23:ARG:NH2	32:BH:36:PRO:CD	2.68	0.55
33:BK:31:LEU:HD13	33:BK:37:VAL:N	2.21	0.55
35:BM:34:LEU:CD2	35:BM:116:LEU:HD22	2.35	0.55
35:BM:87:LEU:CD2	35:BM:88:GLU:OE1	2.53	0.55
36:BN:10:VAL:HG12	36:BN:17:ARG:O	2.05	0.55
36:BN:110:GLY:O	36:BN:111:PHE:HB3	2.07	0.55
37:BO:135:LEU:HD13	37:BO:135:LEU:N	2.16	0.55
38:BP:8:LYS:HZ3	38:BP:11:LYS:HZ3	1.54	0.55
40:BR:35:ILE:O	40:BR:36:TYR:HB2	2.07	0.55
40:BR:25:ARG:O	40:BR:39:ILE:HA	2.06	0.55
40:BR:49:VAL:HG21	40:BR:76:LYS:CG	2.36	0.55
40:BR:3:ARG:HB2	40:BR:4:LEU:HD23	1.88	0.55
40:BR:60:GLY:O	40:BR:62:LYS:N	2.39	0.55
40:BR:92:TYR:OH	40:BR:93:LYS:HD3	2.06	0.55
41:BS:34:VAL:HG13	41:BS:36:GLU:CB	2.34	0.55
44:BV:11:ARG:HB2	44:BV:98:LYS:HD2	1.86	0.55
45:BW:66:LEU:O	45:BW:69:TYR:O	2.23	0.55
46:BX:22:GLY:CA	46:BX:73:ARG:HH22	2.19	0.55
46:BX:83:THR:HG22	46:BX:84:ARG:N	2.21	0.55
48:BZ:19:LYS:HZ3	48:BZ:41:ARG:CZ	2.18	0.55
33:BK:68:LEU:HD21	33:BK:107:VAL:HG21	1.88	0.55
33:BK:91:SER:HB3	33:BK:121:LYS:CG	2.36	0.55
33:BK:125:GLU:CB	33:BK:143:SER:CB	2.83	0.55
26:BB:20:C:H2'	26:BB:21:G:C5'	2.33	0.55
1:AA:1174:G:C8	1:AA:1174:G:H5'	2.41	0.55
1:AA:122:G:O2'	1:AA:123:C:H5'	2.07	0.55
1:AA:1308:U:C6	16:AP:99:ARG:NH1	2.67	0.55
1:AA:1361:G:H2'	1:AA:1362:C:H5'	1.89	0.55
1:AA:1365:G:C2	1:AA:1366:C:C2	2.95	0.55
1:AA:1408:A:N7	1:AA:1409:C:H5	2.02	0.55
1:AA:1440:C:C2'	1:AA:1441:G:O5'	2.54	0.55
1:AA:1404:C:O4'	1:AA:1499:A:C2	2.59	0.55
1:AA:256:U:H2'	1:AA:257:G:O4'	2.06	0.55
1:AA:306:G:H2'	1:AA:307:C:C6	2.41	0.55
1:AA:306:G:N2	1:AA:307:C:H1'	2.22	0.55
1:AA:61:G:N2	1:AA:379:C:C4'	2.69	0.55
1:AA:571:U:O4'	1:AA:819:A:N7	2.39	0.55
1:AA:576:G:N7	1:AA:881:G:O4'	2.38	0.55
1:AA:652:U:C1'	1:AA:653:A:H2	2.03	0.55
1:AA:872:A:N1	1:AA:874:G:N7	2.54	0.55
1:AA:889:A:C5'	1:AA:890:G:OP1	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:9:G:P	8:AH:122:GLU:OE1	2.65	0.55
5:AE:179:LYS:O	5:AE:180:LEU:C	2.44	0.55
5:AE:219:VAL:O	5:AE:223:ILE:HG13	2.07	0.55
5:AE:236:TYR:HA	5:AE:240:GLN:NE2	2.21	0.55
6:AF:100:ALA:O	6:AF:102:ASN:ND2	2.39	0.55
7:AG:185:PHE:HD2	7:AG:186:LEU:N	2.04	0.55
8:AH:20:GLN:O	8:AH:23:GLY:O	2.25	0.55
9:AI:55:ASP:O	9:AI:57:GLN:N	2.39	0.55
9:AI:6:VAL:HG13	9:AI:6:VAL:O	2.05	0.55
11:AK:109:ILE:CD1	11:AK:111:ILE:HD11	2.36	0.55
11:AK:49:GLU:OE2	11:AK:60:ARG:HB3	2.06	0.55
11:AK:5:PRO:O	11:AK:8:ASP:OD1	2.24	0.55
12:AL:30:GLY:C	12:AL:31:GLN:OE1	2.44	0.55
12:AL:17:VAL:HG22	12:AL:63:ILE:CG2	2.35	0.55
13:AM:67:THR:HG22	13:AM:69:ASN:OD1	2.05	0.55
14:AN:105:VAL:O	14:AN:106:LYS:O	2.23	0.55
14:AN:110:ASP:HA	21:AU:88:LYS:CD	2.16	0.55
14:AN:51:LYS:HD3	14:AN:52:GLY:N	2.18	0.55
14:AN:85:ARG:NH2	14:AN:111:ASP:OD2	2.38	0.55
15:AO:28:LYS:CE	15:AO:33:ARG:NH1	2.61	0.55
15:AO:86:ARG:HG3	15:AO:86:ARG:O	2.05	0.55
16:AP:81:LEU:CD2	16:AP:82:MET:N	2.69	0.55
18:AR:71:GLN:HB2	18:AR:78:TYR:CE1	2.41	0.55
21:AU:53:ARG:HH22	21:AU:60:GLY:HA2	1.70	0.55
1:AA:1320:C:C4	22:AV:72:GLY:HA3	2.41	0.55
49:B1:52:ILE:C	49:B1:56:LEU:HD22	2.26	0.55
52:B4:59:GLU:O	52:B4:60:VAL:HB	2.05	0.55
54:B6:48:LYS:CE	54:B6:49:ARG:N	2.69	0.55
55:B7:40:GLU:HG2	55:B7:41:ILE:N	2.19	0.55
55:B7:51:ALA:O	55:B7:53:PRO:CD	2.54	0.55
56:B8:30:PRO:O	56:B8:33:LYS:HG2	2.07	0.55
25:BA:104:U:OP2	25:BA:105:C:H5	1.88	0.55
25:BA:1195:G:C2'	25:BA:1226:G:H22	2.18	0.55
25:BA:1230:C:O2'	25:BA:1231:G:H5'	2.06	0.55
25:BA:1462:C:H3'	25:BA:1463:C:H6	1.71	0.55
25:BA:1495:A:H8	25:BA:1495:A:O5'	1.88	0.55
25:BA:1532:C:OP2	25:BA:1532:C:C6	2.59	0.55
25:BA:1742:C:C2'	25:BA:1743:G:O4'	2.44	0.55
25:BA:1746:G:C3'	25:BA:1746:G:OP2	2.49	0.55
25:BA:1681:G:N2	25:BA:1763:G:OP2	2.39	0.55
25:BA:215:G:O2'	25:BA:216:A:OP2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2538:C:H6	25:BA:2538:C:O5'	1.88	0.55
25:BA:2581:G:H1	25:BA:2610:C:H6	1.53	0.55
25:BA:271(B):G:C5'	25:BA:271(C):U:O4'	2.49	0.55
25:BA:2821:A:OP1	29:BE:110:GLY:N	2.39	0.55
25:BA:312:G:C2'	25:BA:312:G:N3	2.69	0.55
25:BA:379:G:C6	25:BA:396:G:C6	2.94	0.55
25:BA:403:U:H5'	25:BA:406:G:O2'	2.05	0.55
25:BA:224:G:N7	25:BA:420:C:H5'	2.20	0.55
25:BA:458:G:N3	25:BA:469:G:C6	2.75	0.55
25:BA:570:G:C4	25:BA:2030:A:C2	2.93	0.55
25:BA:617:G:N7	25:BA:618:G:C5	2.74	0.55
25:BA:730:C:H3'	25:BA:731:C:H5'	1.86	0.55
25:BA:778:G:C2	25:BA:787:U:O2	2.59	0.55
25:BA:81:G:C2'	25:BA:82:G:O5'	2.54	0.55
25:BA:942:G:H5''	37:BO:32:THR:CG2	2.36	0.55
27:BC:108:MET:HE3	27:BC:136:LEU:CD1	2.33	0.55
27:BC:189:ILE:HD11	27:BC:214:VAL:CG2	2.36	0.55
28:BD:186:HIS:HB2	28:BD:188:GLU:CD	2.27	0.55
25:BA:1824:G:OP1	28:BD:53:PHE:CZ	2.59	0.55
28:BD:63:ARG:NH1	28:BD:86:PRO:HD2	2.22	0.55
25:BA:2619:C:C5'	29:BE:152:LYS:HA	2.37	0.55
29:BE:69:LYS:O	29:BE:70:ALA:O	2.23	0.55
29:BE:30:PRO:HD2	29:BE:90:THR:HG23	1.88	0.55
30:BF:146:ALA:HB3	30:BF:148:LEU:HD23	1.87	0.55
30:BF:37:VAL:O	30:BF:184:TYR:OH	2.23	0.55
31:BG:92:VAL:HG11	31:BG:94:LEU:HD22	1.89	0.55
32:BH:83:TYR:HD1	32:BH:138:LYS:CB	2.19	0.55
36:BN:17:ARG:O	36:BN:17:ARG:HG2	2.06	0.55
36:BN:43:VAL:CG1	36:BN:54:GLU:OE2	2.53	0.55
37:BO:113:LYS:HZ2	37:BO:115:LEU:CA	2.17	0.55
37:BO:77:ARG:CG	37:BO:115:LEU:HD23	2.35	0.55
37:BO:23:PRO:HG2	37:BO:30:THR:OG1	2.05	0.55
25:BA:2393:A:H5''	37:BO:56:SER:H	1.64	0.55
38:BP:37:LEU:CB	38:BP:38:GLU:OE2	2.54	0.55
38:BP:40:ALA:HA	38:BP:98:LYS:HG3	1.88	0.55
39:BQ:58:GLY:CA	39:BQ:80:PHE:CZ	2.84	0.55
26:BB:7:G:O2'	40:BR:29:PHE:HE2	1.90	0.55
40:BR:68:GLN:O	40:BR:69:VAL:C	2.44	0.55
41:BS:39:ARG:O	41:BS:42:ILE:HG13	2.06	0.55
42:BT:112:ARG:O	42:BT:115:ALA:N	2.39	0.55
42:BT:8:VAL:HG13	42:BT:11:ARG:NH1	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:29:LEU:HD23	44:BV:29:LEU:C	2.26	0.55
44:BV:5:ALA:HB3	44:BV:105:VAL:CG1	2.36	0.55
46:BX:41:GLY:CA	46:BX:61:ILE:HG22	2.35	0.55
46:BX:76:CYS:HB3	46:BX:100:ALA:HB3	1.88	0.55
47:BY:96:VAL:O	47:BY:127:LYS:O	2.25	0.55
47:BY:41:LEU:HA	47:BY:44:PHE:HB2	1.87	0.55
48:BZ:36:ILE:CD1	48:BZ:59:LEU:O	2.55	0.55
48:BZ:72:ARG:O	48:BZ:73:GLY:O	2.23	0.55
25:BA:1069:A:C8	25:BA:1074:G:O6	2.53	0.55
34:BL:103:GLN:O	34:BL:106:GLU:OE2	2.25	0.55
34:BL:138:VAL:O	34:BL:139:VAL:CG2	2.54	0.55
32:BH:25:LYS:HD3	32:BH:27:LYS:CG	2.36	0.55
25:BA:2293:C:H6	25:BA:2293:C:O5'	1.89	0.55
25:BA:1040:C:C6	25:BA:1040:C:OP2	2.59	0.55
1:AA:1124:G:H21	1:AA:1126:U:H3	0.73	0.55
1:AA:1148:U:O2	1:AA:1149:C:N1	2.40	0.55
1:AA:1219:U:P	17:AQ:19:ARG:HH22	2.29	0.55
1:AA:1251:A:H2	1:AA:1354:C:O2	1.90	0.55
1:AA:130:A:H4'	1:AA:190:G:N2	2.21	0.55
1:AA:1314:C:C6	22:AV:6:LYS:HD3	2.42	0.55
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.88	0.55
1:AA:367:U:O4'	1:AA:394:G:N2	2.40	0.55
1:AA:373:A:C6	1:AA:482:A:N6	2.74	0.55
1:AA:591:U:H2'	1:AA:592:G:H8	1.70	0.55
1:AA:664:G:P	21:AU:64:ARG:NH2	2.79	0.55
1:AA:816:A:C2'	1:AA:817:C:OP2	2.54	0.55
1:AA:826:C:H2'	1:AA:827:U:O5'	2.05	0.55
3:AD:34:G:C2	3:AD:35:A:C5'	2.89	0.55
3:AD:41:G:H8	3:AD:41:G:H5'	1.72	0.55
5:AE:153:ARG:HH12	5:AE:156:LYS:CB	2.19	0.55
5:AE:173:ALA:O	5:AE:176:GLU:N	2.39	0.55
5:AE:25:ASN:ND2	5:AE:27:LYS:CG	2.64	0.55
5:AE:92:TYR:O	5:AE:152:PHE:N	2.39	0.55
6:AF:113:ALA:N	6:AF:202:ILE:HD11	2.20	0.55
7:AG:57:ARG:CB	7:AG:206:PHE:HB2	2.29	0.55
8:AH:15:ARG:HG3	8:AH:15:ARG:HH11	1.70	0.55
9:AI:59:TYR:CD2	9:AI:61:LEU:HD21	2.41	0.55
10:AJ:6:ARG:CB	10:AJ:6:ARG:NH1	2.69	0.55
10:AJ:90:GLU:OE1	10:AJ:90:GLU:HA	2.04	0.55
11:AK:24:THR:HG22	11:AK:61:VAL:O	2.06	0.55
11:AK:29:SER:N	11:AK:32:LYS:NZ	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:33:THR:HA	14:AN:38:ASN:O	2.06	0.55
15:AO:41:ARG:CG	15:AO:42:THR:H	2.18	0.55
15:AO:93:LEU:O	15:AO:96:VAL:HG23	2.07	0.55
18:AR:63:ARG:HA	18:AR:66:LEU:HD23	1.88	0.55
20:AT:57:VAL:HG23	20:AT:58:GLU:N	2.21	0.55
1:AA:235:C:OP1	20:AT:70:ARG:HG3	2.07	0.55
21:AU:80:PRO:O	21:AU:81:PHE:O	2.24	0.55
23:AW:45:GLN:HE21	23:AW:91:LEU:CD1	2.19	0.55
49:B1:12:SER:HB3	49:B1:13:PRO:HD3	1.88	0.55
49:B1:27:LEU:O	49:B1:31:ARG:HG2	2.05	0.55
49:B1:56:LEU:N	49:B1:56:LEU:CD1	2.69	0.55
51:B3:17:GLY:CA	51:B3:33:VAL:CG1	2.82	0.55
51:B3:49:PHE:O	51:B3:49:PHE:HD2	1.89	0.55
25:BA:400:G:C6	51:B3:63:TYR:HE2	2.25	0.55
53:B5:20:ASN:ND2	53:B5:43:CYS:SG	2.79	0.55
55:B7:21:LYS:HG2	55:B7:48:PHE:CE1	2.37	0.55
56:B8:7:VAL:HG22	56:B8:34:GLN:CG	2.36	0.55
25:BA:1000:A:C2	25:BA:1155:A:N3	2.75	0.55
25:BA:1151:G:H5''	42:BT:81:HIS:CE1	2.42	0.55
25:BA:1184:G:O2'	25:BA:1185:C:H5''	2.06	0.55
25:BA:1252:G:N3	42:BT:33:ARG:HD3	2.21	0.55
25:BA:1277:G:H2'	25:BA:1278:A:H8	1.71	0.55
25:BA:1505:C:N3	25:BA:1506:C:C5	2.75	0.55
25:BA:1418:G:C1'	25:BA:1581:G:H22	1.96	0.55
25:BA:1668:A:N7	25:BA:1674:G:C4	2.75	0.55
25:BA:1673:U:C4	25:BA:1675:C:C6	2.92	0.55
25:BA:1707:G:H2'	25:BA:1708:C:C6	2.41	0.55
25:BA:1782:C:H5''	25:BA:2609:U:C5	2.41	0.55
25:BA:1919:A:H3'	25:BA:1919:A:P	2.46	0.55
25:BA:1936:A:H4'	25:BA:1937:A:O5'	2.06	0.55
25:BA:1955:U:H3	25:BA:2552:U:H1'	1.72	0.55
25:BA:2063:C:C5	25:BA:2064:C:C5	2.94	0.55
25:BA:2094:G:H2'	25:BA:2095:C:C6	2.41	0.55
25:BA:2216:G:C8	25:BA:2216:G:O5'	2.59	0.55
25:BA:2219:G:H21	28:BD:262:ARG:HH22	1.44	0.55
25:BA:2396:G:C6	25:BA:2421:G:C6	2.93	0.55
25:BA:2406:U:C2'	25:BA:2406:U:O2	2.55	0.55
25:BA:2527:C:H2'	25:BA:2528:U:C6	2.41	0.55
25:BA:270(E):G:C2'	25:BA:270(F):U:H5'	2.36	0.55
25:BA:2739:U:C6	25:BA:2739:U:C3'	2.89	0.55
25:BA:2748:A:C5	25:BA:2757:A:N6	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:411:G:N2	25:BA:415:A:N6	2.49	0.55
25:BA:586:A:C8	25:BA:1251:C:N4	2.74	0.55
25:BA:594:U:C4	25:BA:595:C:N4	2.75	0.55
25:BA:662:G:OP1	37:BO:16:ARG:HG2	2.06	0.55
25:BA:728:G:C2'	25:BA:729:G:OP2	2.53	0.55
25:BA:71:A:O2'	25:BA:72:U:H5''	2.07	0.55
25:BA:776:G:N3	25:BA:793:A:C6	2.74	0.55
25:BA:878:A:C1'	25:BA:879:G:N7	2.70	0.55
25:BA:972:G:N7	25:BA:973:A:N7	2.54	0.55
26:BB:41:U:OP1	26:BB:42:C:C6	2.59	0.55
26:BB:59:A:H2'	26:BB:59:A:N3	2.21	0.55
25:BA:2123:G:O3'	27:BC:172:HIS:HD2	1.89	0.55
27:BC:199:HIS:H	27:BC:199:HIS:HD1	1.52	0.55
25:BA:1861:G:OP1	27:BC:206:GLY:N	2.39	0.55
28:BD:176:ARG:NH2	28:BD:270:ILE:HD11	2.21	0.55
28:BD:183:ARG:NH1	28:BD:268:ARG:CD	2.69	0.55
28:BD:275:LYS:O	28:BD:276:LYS:O	2.24	0.55
28:BD:34:VAL:O	28:BD:36:PRO:HD2	2.05	0.55
28:BD:37:LEU:C	28:BD:37:LEU:HD13	2.27	0.55
25:BA:1567:A:C6	28:BD:84:TYR:CD1	2.94	0.55
29:BE:10:GLY:HA2	29:BE:23:VAL:HA	1.87	0.55
30:BF:110:LEU:CA	30:BF:183:VAL:HG22	2.35	0.55
30:BF:38:ARG:HA	30:BF:41:LEU:HD21	1.85	0.55
31:BG:135:LEU:C	31:BG:137:GLU:H	2.10	0.55
31:BG:19:LEU:C	31:BG:22:ARG:HG2	2.27	0.55
32:BH:136:ILE:HG12	32:BH:137:ASP:H	1.70	0.55
35:BM:7:LYS:CD	35:BM:10:GLU:HB2	2.36	0.55
37:BO:74:GLU:N	37:BO:107:LYS:HE3	2.21	0.55
38:BP:126:PRO:HG2	38:BP:127:ILE:HG13	1.88	0.55
25:BA:871:U:H4'	38:BP:69:PHE:CE1	2.41	0.55
38:BP:85:LYS:NZ	48:BZ:10:THR:CG2	2.68	0.55
41:BS:4:GLY:O	41:BS:8:LYS:CG	2.55	0.55
41:BS:92:GLY:O	41:BS:93:ARG:HG3	2.06	0.55
43:BU:4:ILE:HG13	43:BU:13:ARG:HG2	1.87	0.55
46:BX:13:VAL:HG23	46:BX:14:LEU:H	1.70	0.55
46:BX:71:LYS:HD2	46:BX:71:LYS:H	1.70	0.55
46:BX:72:VAL:HG21	46:BX:96:ILE:HG12	1.87	0.55
46:BX:96:ILE:HD12	46:BX:96:ILE:H	1.67	0.55
47:BY:99:TYR:CG	47:BY:124:ILE:HG21	2.42	0.55
33:BK:132:PRO:HD2	33:BK:138:ILE:N	2.22	0.55
25:BA:1090:U:O4	25:BA:1103:A:N1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:32:LYS:HA	22:AV:50:ALA:CB	2.28	0.55
22:AV:30:LEU:CD2	22:AV:50:ALA:HB2	2.35	0.55
1:AA:1064:G:O2'	1:AA:1065:U:H1'	2.06	0.55
1:AA:1095:U:H5'	1:AA:1109:C:C2	2.41	0.55
1:AA:1163:C:H2'	1:AA:1164:G:H5'	1.87	0.55
1:AA:1172:C:O2'	1:AA:1173:G:H5'	2.07	0.55
1:AA:1177:G:H8	1:AA:1177:G:O5'	1.89	0.55
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.41	0.55
1:AA:1298:C:C4'	1:AA:1299:A:C2	2.89	0.55
1:AA:1346:A:H2'	10:AJ:10:ARG:NH2	2.20	0.55
1:AA:153:C:C2	1:AA:154:C:C5	2.94	0.55
1:AA:160:A:N7	1:AA:161:A:C5	2.74	0.55
1:AA:164:U:H2'	1:AA:165:C:C6	2.41	0.55
1:AA:181:G:N2	1:AA:183:G:N2	2.54	0.55
1:AA:251:G:H5'	1:AA:252:U:OP1	2.07	0.55
1:AA:440:A:H2'	1:AA:442:C:O4'	2.06	0.55
1:AA:501:C:H2'	1:AA:502:G:C8	2.38	0.55
1:AA:50:A:O2'	1:AA:52:G:C8	2.58	0.55
1:AA:682:G:C6	1:AA:683:G:N7	2.75	0.55
1:AA:949:A:N3	1:AA:971:G:O6	2.39	0.55
6:AF:110:ASN:CB	6:AF:144:SER:OG	2.55	0.55
6:AF:10:PHE:O	6:AF:178:LEU:CD1	2.55	0.55
6:AF:78:GLY:O	6:AF:80:GLY:N	2.39	0.55
7:AG:127:THR:O	7:AG:146:ILE:HA	2.06	0.55
7:AG:176:LEU:HG	7:AG:176:LEU:O	2.04	0.55
7:AG:180:GLY:CA	7:AG:182:LYS:HZ3	2.20	0.55
9:AI:36:ARG:CB	9:AI:36:ARG:HH11	2.04	0.55
9:AI:67:MET:SD	9:AI:67:MET:C	2.83	0.55
10:AJ:32:ARG:O	10:AJ:32:ARG:HG3	2.07	0.55
10:AJ:50:ILE:CD1	10:AJ:58:PRO:HA	2.36	0.55
10:AJ:77:SER:OG	10:AJ:86:GLN:OE1	2.22	0.55
10:AJ:94:ARG:NH1	10:AJ:98:SER:OG	2.39	0.55
11:AK:117:GLY:O	11:AK:119:LEU:CD2	2.54	0.55
15:AO:60:LEU:HD13	15:AO:60:LEU:N	2.20	0.55
16:AP:16:ASP:CG	16:AP:34:LEU:HD11	2.27	0.55
13:AM:49:VAL:HG13	17:AQ:41:ARG:CG	2.36	0.55
20:AT:12:SER:OG	20:AT:14:LYS:HD2	2.06	0.55
21:AU:63:GLN:C	21:AU:66:LEU:HG	2.27	0.55
23:AW:45:GLN:NE2	23:AW:91:LEU:CB	2.56	0.55
23:AW:43:LEU:HD11	23:AW:51:GLU:CG	2.36	0.55
23:AW:55:ILE:O	23:AW:56:MET:C	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B3:59:PHE:C	51:B3:61:ARG:N	2.56	0.55
56:B8:17:ILE:HD13	56:B8:26:ILE:HD12	1.87	0.55
25:BA:1007:C:H2'	25:BA:1008:C:H5	1.72	0.55
25:BA:1044:G:O2'	25:BA:1047:G:N2	2.39	0.55
25:BA:1168:G:C6	25:BA:1182:A:N1	2.74	0.55
25:BA:120:U:C2'	25:BA:121:G:OP2	2.55	0.55
25:BA:1252:G:C8	25:BA:1253:A:H1'	2.41	0.55
25:BA:1311:G:H3'	25:BA:1311:G:H8	1.71	0.55
25:BA:1375:C:C2	25:BA:1376:C:C5	2.94	0.55
25:BA:1454:U:C2'	25:BA:1454:U:O2	2.49	0.55
25:BA:1479:G:N2	25:BA:1515:C:C2	2.74	0.55
25:BA:1529:A:C8	25:BA:1530:G:C8	2.94	0.55
25:BA:1558:A:C2	25:BA:1560:G:N9	2.72	0.55
25:BA:1644:C:C2'	25:BA:1645:G:O5'	2.55	0.55
25:BA:1774:C:H6	25:BA:1774:C:H3'	1.72	0.55
25:BA:1786:A:O5'	25:BA:1786:A:H8	1.88	0.55
25:BA:1831:G:C5	25:BA:1832:C:C5	2.95	0.55
25:BA:1906:G:C6	25:BA:1907:G:N7	2.75	0.55
25:BA:1952:A:H2'	25:BA:1953:A:O4'	2.06	0.55
25:BA:1995:U:H5	25:BA:1996:C:C4	2.20	0.55
25:BA:2015:A:C8	25:BA:2016:U:C6	2.95	0.55
25:BA:2226:C:O2	28:BD:262:ARG:CZ	2.55	0.55
25:BA:2228:G:N7	25:BA:2229:C:C4	2.74	0.55
25:BA:2230:G:C2	25:BA:2231:C:C6	2.94	0.55
25:BA:2286:A:N6	53:B5:32:ASN:H	2.03	0.55
25:BA:2345:G:N2	25:BA:2381:C:C6	2.74	0.55
25:BA:2384:G:OP2	25:BA:2384:G:C8	2.59	0.55
25:BA:2492:U:HO2'	25:BA:2493:U:P	2.30	0.55
25:BA:2536:G:C6	25:BA:2537:U:C4	2.95	0.55
25:BA:2633:G:N2	25:BA:2634:G:C4	2.74	0.55
25:BA:2666:C:C2'	25:BA:2667:C:H5'	2.36	0.55
25:BA:2704:C:H2'	25:BA:2705:A:N9	2.21	0.55
25:BA:271(C):U:O4	25:BA:421:U:C4	2.59	0.55
25:BA:2784:C:H1'	29:BE:41:LYS:NZ	2.22	0.55
25:BA:559:G:C2'	25:BA:560:C:O4'	2.54	0.55
25:BA:644:A:HO2'	25:BA:646:A:N6	2.01	0.55
25:BA:653:A:H5'	25:BA:654:A:H4'	1.88	0.55
25:BA:783:A:C3'	25:BA:783:A:C8	2.89	0.55
25:BA:783:A:H3'	25:BA:783:A:C8	2.41	0.55
25:BA:792:G:C5	25:BA:2440:C:C2	2.94	0.55
25:BA:831:G:H5'	25:BA:832:G:OP2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:863:A:N3	25:BA:864:G:C8	2.74	0.55
25:BA:867:C:P	25:BA:867:C:H3'	2.47	0.55
25:BA:866:A:N7	25:BA:914:C:O2	2.39	0.55
25:BA:934:G:C6	25:BA:935:C:C5	2.94	0.55
25:BA:956:G:OP1	38:BP:87:LYS:HG3	2.06	0.55
25:BA:95:G:O2'	49:B1:42:ASN:ND2	2.37	0.55
27:BC:151:GLU:O	27:BC:154:ARG:HB2	2.06	0.55
29:BE:119:ARG:NH1	29:BE:155:LYS:HB3	2.20	0.55
29:BE:98:PRO:HD3	29:BE:175:VAL:HG21	1.87	0.55
31:BG:134:GLY:O	31:BG:155:MET:O	2.24	0.55
25:BA:2314:C:C5'	31:BG:38:VAL:HG21	2.30	0.55
31:BG:43:LEU:HD13	31:BG:43:LEU:N	2.21	0.55
32:BH:88:LEU:O	32:BH:88:LEU:HD23	2.07	0.55
35:BM:136:GLU:C	35:BM:137:LYS:HG3	2.26	0.55
35:BM:26:LEU:HG	35:BM:30:ILE:CD1	2.37	0.55
36:BN:75:SER:HG	41:BS:77:PRO:HG2	1.70	0.55
36:BN:97:ARG:NH1	36:BN:98:VAL:N	2.54	0.55
37:BO:13:ASN:HB2	37:BO:17:LYS:HD3	1.87	0.55
37:BO:46:LYS:CB	37:BO:49:ARG:NE	2.69	0.55
39:BQ:8:ARG:HD3	39:BQ:10:LEU:HD21	1.87	0.55
42:BT:114:LYS:O	42:BT:118:GLY:O	2.24	0.55
25:BA:533:G:P	42:BT:28:ARG:HH11	2.28	0.55
42:BT:69:CYS:SG	42:BT:70:ARG:N	2.79	0.55
43:BU:4:ILE:O	43:BU:5:VAL:O	2.24	0.55
43:BU:62:LEU:O	43:BU:64:HIS:CE1	2.59	0.55
43:BU:81:TYR:O	43:BU:82:ARG:HB2	2.06	0.55
45:BW:23:GLU:C	45:BW:23:GLU:OE1	2.45	0.55
45:BW:66:LEU:HG	45:BW:69:TYR:C	2.27	0.55
46:BX:49:VAL:C	46:BX:51:VAL:H	2.09	0.55
47:BY:102:LEU:HG	47:BY:125:LEU:HD12	1.86	0.55
47:BY:128:VAL:HB	47:BY:162:GLU:HB3	1.88	0.55
47:BY:18:LEU:HD22	47:BY:23:LYS:HB3	1.88	0.55
47:BY:41:LEU:O	47:BY:44:PHE:N	2.40	0.55
47:BY:55:HIS:CG	47:BY:124:ILE:HD11	2.41	0.55
33:BK:113:ARG:O	33:BK:113:ARG:HD2	2.05	0.55
1:AA:1026:G:N7	1:AA:1027:C:C5	2.74	0.55
1:AA:1158:C:N3	1:AA:1160:G:C8	2.74	0.55
1:AA:1166:G:H2'	1:AA:1169:A:OP2	2.07	0.55
1:AA:1285:A:O4'	1:AA:1286:A:N7	2.39	0.55
1:AA:1286:A:H3'	1:AA:1286:A:H8	1.71	0.55
1:AA:1325:C:H2'	1:AA:1326:C:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1373:G:OP1	12:AL:42:ARG:NH2	2.39	0.55
1:AA:22:G:C3'	1:AA:23:C:H6	2.20	0.55
1:AA:254:G:O6	1:AA:273:A:N6	2.39	0.55
1:AA:327:A:C2	1:AA:329:A:C4	2.95	0.55
1:AA:370:C:H2'	1:AA:371:G:C8	2.35	0.55
1:AA:407:G:H2'	1:AA:408:A:O5'	2.07	0.55
1:AA:667:G:N2	1:AA:740:U:C1'	2.70	0.55
1:AA:990:C:H2'	1:AA:991:U:C6	2.42	0.55
2:AC:6:G:H2'	2:AC:7:G:H8	1.72	0.55
3:AD:37:A:H2'	3:AD:38:A:H8	1.71	0.55
5:AE:82:ARG:HG2	5:AE:83:MET:HE1	1.89	0.55
6:AF:30:ARG:HG2	6:AF:31:HIS:N	2.20	0.55
6:AF:8:ILE:HG13	6:AF:16:ARG:CD	2.35	0.55
7:AG:165:MET:HE2	7:AG:166:LYS:HA	1.89	0.55
7:AG:35:ARG:O	7:AG:36:ARG:C	2.44	0.55
7:AG:13:ARG:NH1	7:AG:36:ARG:CB	2.69	0.55
8:AH:34:VAL:HG12	8:AH:35:GLY:N	2.22	0.55
8:AH:48:ALA:HB3	8:AH:54:ALA:HB2	1.88	0.55
8:AH:79:GLU:CG	8:AH:93:PRO:HD2	2.36	0.55
9:AI:65:VAL:CG2	9:AI:66:GLU:N	2.70	0.55
1:AA:1298:C:N4	10:AJ:114:ARG:HB3	2.21	0.55
12:AL:12:GLU:H	12:AL:104:ARG:NH2	2.03	0.55
12:AL:96:LEU:CG	12:AL:101:PHE:HE1	2.19	0.55
13:AM:30:SER:HB2	13:AM:81:THR:HA	1.84	0.55
15:AO:68:ALA:CA	15:AO:98:TYR:O	2.51	0.55
16:AP:14:ARG:HA	16:AP:44:ARG:CA	2.27	0.55
16:AP:13:LYS:HB3	16:AP:17:VAL:HG12	1.89	0.55
16:AP:58:GLU:HA	16:AP:61:GLU:CB	2.33	0.55
16:AP:87:TYR:HB2	22:AV:73:GLU:O	2.06	0.55
17:AQ:42:ILE:HG13	17:AQ:43:CYS:H	1.71	0.55
18:AR:57:LEU:O	18:AR:58:MET:C	2.45	0.55
20:AT:45:HIS:CE1	20:AT:47:PRO:HG3	2.42	0.55
21:AU:74:ARG:CA	21:AU:79:LEU:HD11	2.36	0.55
49:B1:3:LYS:HZ1	49:B1:6:GLU:HG3	1.69	0.55
50:B2:10:LYS:CG	50:B2:31:LEU:HD11	2.36	0.55
50:B2:12:PRO:O	50:B2:14:GLY:N	2.39	0.55
50:B2:28:LEU:HD23	50:B2:28:LEU:N	2.21	0.55
53:B5:40:CYS:SG	53:B5:46:HIS:HA	2.47	0.55
25:BA:591:C:C2'	55:B7:1:MET:HB3	2.37	0.55
25:BA:1149:G:C2'	25:BA:1150:C:H5'	2.36	0.55
25:BA:119:A:C4'	25:BA:120:U:H5'	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1205:U:O3'	25:BA:1206:G:N7	2.40	0.55
25:BA:1238:G:H2'	25:BA:1239:G:C5'	2.37	0.55
25:BA:1265:A:C8	25:BA:1267:U:O4	2.59	0.55
25:BA:1341:U:C5	25:BA:1397:U:C2	2.94	0.55
25:BA:1344:G:O2'	25:BA:1384:A:H2'	2.06	0.55
25:BA:1469:A:C8	25:BA:1469:A:C3'	2.89	0.55
25:BA:1498:C:C6	25:BA:1576:U:C4'	2.77	0.55
25:BA:1650:G:O6	25:BA:2008:C:C4	2.59	0.55
25:BA:1656:C:H5'	29:BE:136:ARG:CD	2.36	0.55
25:BA:1665:A:C2	25:BA:1666:G:C5	2.95	0.55
25:BA:1933:G:C5	25:BA:1934:C:C5	2.95	0.55
25:BA:1941:C:C2'	25:BA:1942:C:O5'	2.54	0.55
25:BA:2017:U:O2'	25:BA:2018:G:OP1	2.25	0.55
25:BA:2423:U:O2'	25:BA:2424:C:OP2	2.17	0.55
25:BA:2031:A:H3'	25:BA:2454:G:N2	2.21	0.55
25:BA:2496:C:C5	25:BA:2497:A:N1	2.75	0.55
25:BA:1129:A:O2'	25:BA:2515:C:H1'	2.07	0.55
25:BA:2652:C:H2'	25:BA:2653:U:H6	1.70	0.55
25:BA:264:C:O2'	25:BA:265:A:O5'	2.18	0.55
25:BA:266:G:C8	25:BA:266:G:C3'	2.88	0.55
25:BA:2701:C:H5'	25:BA:2702:U:C5'	2.37	0.55
25:BA:270(A):A:C5'	25:BA:270(B):A:OP2	2.46	0.55
25:BA:270(E):G:H2'	25:BA:270(F):U:C6	2.42	0.55
25:BA:2805:G:C8	25:BA:2807:G:H8	2.24	0.55
25:BA:282:A:C2'	25:BA:284:U:OP1	2.52	0.55
25:BA:2893:G:H2'	25:BA:2894:G:OP2	2.05	0.55
25:BA:479:A:C2	25:BA:481:G:O4'	2.59	0.55
25:BA:511:U:H5	25:BA:512:G:C2	2.24	0.55
25:BA:448:U:N3	25:BA:583:G:H1'	2.21	0.55
25:BA:589:C:O2'	30:BF:93:LYS:HD3	2.07	0.55
25:BA:593:G:C5	25:BA:594:U:C5	2.94	0.55
25:BA:613:U:P	25:BA:615:G:C8	3.00	0.55
25:BA:778:G:H22	25:BA:787:U:H1'	1.66	0.55
25:BA:672:C:C2	25:BA:809:G:N2	2.74	0.55
25:BA:84:A:H5''	46:BX:8:LYS:HG3	1.88	0.55
25:BA:931:G:H21	50:B2:24:LYS:HB2	1.71	0.55
26:BB:100:G:C3'	26:BB:101:A:H8	2.18	0.55
27:BC:74:VAL:CG2	27:BC:156:ILE:HD13	2.36	0.55
27:BC:63:SER:O	27:BC:65:PRO:HD3	2.07	0.55
28:BD:129:ASN:O	28:BD:193:VAL:CG2	2.54	0.55
29:BE:134:ILE:O	29:BE:136:ARG:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:59:VAL:CG1	29:BE:62:PRO:HD2	2.35	0.55
30:BF:123:LEU:CD1	30:BF:193:VAL:HG22	2.36	0.55
31:BG:162:THR:C	31:BG:164:GLU:N	2.59	0.55
31:BG:59:GLU:HG3	31:BG:60:LEU:HD22	1.88	0.55
31:BG:64:THR:HG21	31:BG:92:VAL:HG11	1.87	0.55
32:BH:85:LYS:HD2	32:BH:142:GLY:HA2	1.89	0.55
33:BK:30:LEU:C	33:BK:33:ARG:HD3	2.26	0.55
33:BK:4:ILE:HD11	33:BK:39:ALA:HA	1.89	0.55
35:BM:136:GLU:O	35:BM:137:LYS:CG	2.55	0.55
35:BM:14:VAL:O	35:BM:52:VAL:HA	2.07	0.55
36:BN:1:MET:HG3	36:BN:2:ILE:N	2.21	0.55
36:BN:75:SER:C	41:BS:77:PRO:HG2	2.26	0.55
37:BO:15:ARG:O	37:BO:16:ARG:C	2.45	0.55
37:BO:49:ARG:HH12	55:B7:55:ALA:CB	2.20	0.55
38:BP:67:ARG:NH2	38:BP:105:GLU:OE1	2.28	0.55
39:BQ:63:ARG:NH1	39:BQ:80:PHE:CD2	2.75	0.55
41:BS:54:ARG:C	41:BS:55:ASN:OD1	2.45	0.55
43:BU:20:LEU:HA	43:BU:95:LEU:HB3	1.87	0.55
44:BV:11:ARG:HA	44:BV:100:THR:HG22	1.88	0.55
44:BV:23:LEU:HD23	44:BV:23:LEU:O	2.07	0.55
46:BX:19:LYS:NZ	46:BX:39:VAL:HB	2.18	0.55
47:BY:57:ILE:HG12	47:BY:70:LEU:CB	2.37	0.55
47:BY:7:ALA:HB2	47:BY:38:TYR:CG	2.42	0.55
33:BK:75:LEU:C	33:BK:141:LYS:HE2	2.26	0.55
34:BL:131:ALA:HB1	34:BL:136:VAL:CB	2.36	0.55
34:BL:14:ALA:CB	34:BL:48:MET:O	2.46	0.55
1:AA:1000:A:N6	1:AA:1001:G:O6	2.39	0.55
28:BD:273:ARG:CG	28:BD:273:ARG:NH1	2.65	0.55
7:AG:69:GLY:O	7:AG:70:ILE:CG1	2.54	0.55
1:AA:1007:C:C2	1:AA:1023:G:N2	2.74	0.55
25:BA:771:G:H2'	25:BA:772:C:C6	2.41	0.55
1:AA:1067:A:HO2'	1:AA:1068:G:P	2.26	0.55
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.70	0.55
1:AA:1432:G:H5''	41:BS:111:ARG:NH1	2.22	0.55
1:AA:1492:A:H3'	1:AA:1493:A:O4'	2.07	0.55
1:AA:1526:G:O2'	1:AA:1527:C:C5'	2.39	0.55
1:AA:160:A:H2	1:AA:343:U:C1'	2.20	0.55
1:AA:186:C:O2'	1:AA:186(A):C:C5'	2.53	0.55
1:AA:198:G:N3	1:AA:199:G:C8	2.74	0.55
1:AA:197:A:C2'	1:AA:198:G:OP2	2.54	0.55
1:AA:421:U:H6	1:AA:421:U:O5'	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:421:U:H5''	1:AA:422:C:OP2	2.06	0.55
1:AA:454:C:H3'	1:AA:455:C:C6	2.41	0.55
1:AA:52:G:C2'	1:AA:53:A:H5'	2.35	0.55
1:AA:610:G:N2	1:AA:611:A:H1'	2.22	0.55
1:AA:687:A:C2	1:AA:704:A:C5	2.95	0.55
1:AA:757:U:H2'	1:AA:758:G:O4'	2.05	0.55
1:AA:859:A:O2'	1:AA:860:A:C5'	2.53	0.55
1:AA:960:U:O2'	1:AA:1223:C:C4'	2.55	0.55
2:AC:7:G:O2'	2:AC:8:U:OP1	2.23	0.55
3:AD:18:G:N3	3:AD:19:G:H1'	2.21	0.55
1:AA:1101:A:H2	5:AE:100:GLY:HA3	1.70	0.55
5:AE:219:VAL:HA	5:AE:222:ILE:HD11	1.88	0.55
5:AE:33:TYR:CE2	5:AE:44:LEU:HG	2.42	0.55
5:AE:69:LEU:CD2	5:AE:91:PRO:HB2	2.37	0.55
5:AE:79:ASP:O	5:AE:82:ARG:HB3	2.07	0.55
5:AE:84:GLU:HG2	5:AE:234:PRO:HD2	1.89	0.55
6:AF:134:ILE:HG23	6:AF:151:VAL:HG11	1.88	0.55
6:AF:16:ARG:HH12	6:AF:184:TYR:H	1.54	0.55
6:AF:57:ILE:HG23	6:AF:66:VAL:HG23	1.89	0.55
7:AG:68:TYR:CE1	7:AG:114:ARG:NH1	2.74	0.55
8:AH:141:GLN:O	8:AH:142:LEU:HB2	2.07	0.55
10:AJ:36:LYS:HE3	10:AJ:36:LYS:HA	1.88	0.55
10:AJ:6:ARG:H	10:AJ:6:ARG:HH11	1.54	0.55
11:AK:29:SER:CB	11:AK:32:LYS:NZ	2.56	0.55
11:AK:49:GLU:OE1	11:AK:49:GLU:O	2.25	0.55
11:AK:10:LEU:CD2	11:AK:83:ILE:HD11	2.37	0.55
11:AK:10:LEU:HD11	11:AK:85:ARG:CG	2.37	0.55
12:AL:91:ASP:O	12:AL:91:ASP:CG	2.44	0.55
14:AN:25:TYR:O	14:AN:26:ASN:HB2	2.06	0.55
1:AA:691:G:H22	14:AN:51:LYS:CE	2.19	0.55
10:AJ:153:HIS:HE1	14:AN:58:PRO:HD2	1.72	0.55
18:AR:70:LEU:HD11	18:AR:78:TYR:N	2.21	0.55
18:AR:70:LEU:HG	18:AR:78:TYR:CG	2.41	0.55
20:AT:75:ARG:CG	20:AT:76:LEU:N	2.69	0.55
1:AA:1270:C:OP1	24:AX:24:ARG:NH2	2.40	0.55
50:B2:52:HIS:H	50:B2:52:HIS:HD1	1.55	0.55
52:B4:46:CYS:HB2	52:B4:47:PRO:HD2	1.89	0.55
54:B6:11:LYS:NZ	54:B6:15:THR:HG21	2.22	0.55
55:B7:16:ILE:CG1	55:B7:22:VAL:CG2	2.82	0.55
55:B7:30:ARG:NH2	55:B7:44:LYS:N	2.55	0.55
25:BA:138:G:H2'	25:BA:138:G:N3	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1484:G:C2'	25:BA:1485:G:O5'	2.55	0.55
25:BA:1502:C:C2	25:BA:1503:U:C5	2.94	0.55
25:BA:1520:U:C3'	25:BA:1520:U:C6	2.89	0.55
25:BA:1566:A:C2'	25:BA:1567:A:C5'	2.83	0.55
25:BA:179:G:C5	25:BA:180:G:C5	2.94	0.55
25:BA:1859:A:H3'	25:BA:1859:A:C8	2.41	0.55
25:BA:1904:G:N2	25:BA:1905:C:H1'	2.22	0.55
25:BA:1957:C:H2'	25:BA:1958:C:O5'	2.07	0.55
25:BA:1991:U:C2'	25:BA:1992:G:OP2	2.54	0.55
25:BA:2219:G:C2'	25:BA:2224:G:H5'	2.35	0.55
25:BA:2436:G:C6	25:BA:2437:U:C4	2.94	0.55
25:BA:2250:G:O2'	25:BA:2496:C:H5'	2.07	0.55
25:BA:259:G:C1'	25:BA:621:A:HO2'	2.19	0.55
25:BA:2734:A:H5'	25:BA:2735:G:OP2	2.07	0.55
25:BA:2776:A:N7	25:BA:2781:A:C5	2.74	0.55
25:BA:282:A:H5'	25:BA:282:A:H8	1.71	0.55
25:BA:2840:C:C2'	25:BA:2841:C:C5'	2.85	0.55
25:BA:295:G:C2	25:BA:296:C:C2	2.95	0.55
25:BA:311:A:H1'	25:BA:332:A:C4	2.42	0.55
25:BA:411:G:C5'	25:BA:2406:U:H3'	2.36	0.55
25:BA:424:G:C2	25:BA:425:G:C8	2.94	0.55
25:BA:496:G:C6	25:BA:497:A:C5	2.95	0.55
25:BA:527:C:OP1	25:BA:527:C:C4'	2.47	0.55
25:BA:625:G:O6	37:BO:100:LEU:HB3	2.07	0.55
25:BA:728:G:H22	25:BA:762:U:P	2.29	0.55
25:BA:733:G:C6	25:BA:761:A:C5	2.95	0.55
25:BA:852:G:C6	25:BA:853:G:N7	2.75	0.55
25:BA:989:G:H3'	25:BA:989:G:H8	1.71	0.55
26:BB:100:G:C8	26:BB:101:A:N7	2.75	0.55
26:BB:46:A:C5	26:BB:47:C:N3	2.75	0.55
26:BB:64:C:O2'	26:BB:65:C:H5'	2.06	0.55
28:BD:107:ALA:H	28:BD:108:PRO:CD	2.15	0.55
28:BD:234:GLY:HA3	28:BD:241:PRO:HG3	1.89	0.55
28:BD:182:LEU:HB2	28:BD:269:PHE:O	2.06	0.55
30:BF:158:THR:CB	30:BF:160:ASN:ND2	2.67	0.55
30:BF:123:LEU:CB	30:BF:193:VAL:HG22	2.35	0.55
30:BF:64:ILE:HG21	30:BF:78:ILE:HG22	1.89	0.55
31:BG:125:PHE:CB	31:BG:131:TYR:H	2.19	0.55
31:BG:19:LEU:O	31:BG:20:ILE:C	2.45	0.55
31:BG:59:GLU:CD	31:BG:152:LEU:HD13	2.26	0.55
35:BM:10:GLU:HG2	35:BM:12:ARG:NH2	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:6:A:C4'	35:BM:132:ALA:O	2.47	0.55
35:BM:89:LYS:O	35:BM:90:MET:C	2.45	0.55
36:BN:65:THR:CG2	36:BN:77:ILE:HG13	2.33	0.55
36:BN:86:ILE:HG23	36:BN:90:GLN:CA	2.37	0.55
37:BO:105:LEU:O	37:BO:106:LEU:CG	2.52	0.55
39:BQ:20:LEU:CD1	39:BQ:21:TYR:N	2.69	0.55
39:BQ:36:THR:HB	39:BQ:40:LYS:HD2	1.88	0.55
40:BR:33:LYS:HG2	40:BR:54:LEU:HD21	1.88	0.55
42:BT:26:GLY:O	42:BT:27:LEU:CB	2.53	0.55
42:BT:40:PHE:H	42:BT:40:PHE:HD1	1.53	0.55
35:BM:42:TRP:HZ3	42:BT:71:GLN:NE2	2.05	0.55
43:BU:16:PRO:HD3	43:BU:100:ARG:HD2	1.89	0.55
43:BU:71:LEU:HD12	43:BU:91:TYR:HB2	1.87	0.55
46:BX:65:ALA:O	46:BX:66:PRO:O	2.24	0.55
46:BX:94:LYS:O	46:BX:95:LYS:C	2.43	0.55
46:BX:82:PRO:CD	46:BX:97:ARG:H	2.19	0.55
47:BY:150:LEU:O	47:BY:171:ILE:CG2	2.50	0.55
48:BZ:26:TYR:O	48:BZ:67:VAL:HG21	2.07	0.55
33:BK:123:LEU:HD21	33:BK:146:ALA:H	1.70	0.55
33:BK:77:LEU:HG	33:BK:142:VAL:HA	1.87	0.55
25:BA:1054:A:C2	25:BA:1055:G:C6	2.95	0.55
25:BA:1067:A:C6	25:BA:1068:G:O6	2.60	0.55
25:BA:1069:A:H2	25:BA:1073:A:OP2	1.89	0.55
34:BL:7:VAL:HG12	34:BL:58:THR:CB	2.37	0.55
1:AA:91:C:C2	1:AA:92:G:N7	2.74	0.55
1:AA:1170:A:N7	1:AA:1171:G:C4	2.74	0.55
1:AA:1192:C:C3'	1:AA:1192:C:H6	2.20	0.55
1:AA:1204:A:OP2	17:AQ:2:ALA:HB2	2.07	0.55
1:AA:1276:G:O2'	1:AA:1277:C:H5'	2.07	0.55
1:AA:1346:A:H8	1:AA:1348:U:C2	2.24	0.55
1:AA:1363:A:H1'	1:AA:1365:G:C5	2.42	0.55
1:AA:1411:C:C2	1:AA:1412:C:C5	2.94	0.55
1:AA:926:G:C2	1:AA:1505:G:C2	2.95	0.55
1:AA:401:C:P	7:AG:73:ARG:HH12	2.30	0.55
1:AA:476:G:N2	1:AA:477:G:H1'	2.22	0.55
1:AA:652:U:H2'	1:AA:752:G:N2	2.21	0.55
1:AA:859:A:N6	1:AA:860:A:C2	2.75	0.55
1:AA:894:G:C4	1:AA:895:G:N7	2.75	0.55
1:AA:937:A:C5	1:AA:938:A:N7	2.75	0.55
1:AA:955:U:H2'	1:AA:956:U:H6	1.72	0.55
2:AC:60:U:C4'	2:AC:61:C:OP2	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:142:MET:HB3	6:AF:149:ALA:HB2	1.88	0.55
7:AG:112:VAL:HG12	7:AG:112:VAL:O	2.06	0.55
7:AG:59:ARG:NH1	7:AG:59:ARG:CA	2.59	0.55
7:AG:93:PHE:O	7:AG:96:LEU:N	2.40	0.55
8:AH:107:ARG:CB	8:AH:107:ARG:HH11	2.19	0.55
8:AH:147:ASP:OD1	8:AH:150:ARG:HG3	2.06	0.55
9:AI:5:GLU:HB3	9:AI:64:GLN:HG3	1.88	0.55
10:AJ:76:ARG:HB2	10:AJ:156:TRP:CZ2	2.42	0.55
11:AK:123:GLU:OE2	11:AK:124:ALA:CA	2.54	0.55
12:AL:42:ARG:O	12:AL:43:ALA:C	2.42	0.55
13:AM:14:LYS:O	13:AM:17:ASP:HB2	2.07	0.55
14:AN:116:HIS:O	14:AN:117:ASN:ND2	2.39	0.55
14:AN:16:SER:HA	14:AN:79:SER:HB3	1.88	0.55
15:AO:59:ARG:HE	15:AO:65:GLU:CG	2.20	0.55
16:AP:11:ARG:NH1	16:AP:11:ARG:HG3	2.22	0.55
16:AP:14:ARG:CA	16:AP:44:ARG:HD2	2.37	0.55
21:AU:41:LYS:CA	21:AU:44:LEU:HD23	2.36	0.55
1:AA:1014:A:O3'	22:AV:14:HIS:CE1	2.60	0.55
49:B1:59:LEU:HD11	49:B1:63:ARG:HD3	1.89	0.55
25:BA:396:G:H5''	51:B3:10:VAL:HG13	1.89	0.55
25:BA:1134:G:H2'	25:BA:1134:G:N3	2.22	0.55
25:BA:1020:A:HO2'	25:BA:1140:C:H42	1.52	0.55
25:BA:1153:C:C2'	25:BA:1154:G:C8	2.85	0.55
25:BA:1348:G:H2'	25:BA:1349:A:O5'	2.07	0.55
25:BA:1394:U:H4'	25:BA:1603:A:C4'	2.37	0.55
25:BA:1526:G:H22	25:BA:1546:C:N4	2.04	0.55
25:BA:1563:G:O2'	25:BA:1564:C:C5'	2.53	0.55
25:BA:1604:C:O2'	25:BA:1605:C:C5'	2.52	0.55
25:BA:1303:G:O2'	25:BA:1641:A:N1	2.40	0.55
25:BA:1944:U:O2	25:BA:1955:U:H6	1.90	0.55
25:BA:19:C:C2	25:BA:20:C:C5	2.94	0.55
25:BA:2016:U:O2	25:BA:2017:U:C6	2.59	0.55
25:BA:2098:U:O4	25:BA:2099:U:O4	2.24	0.55
25:BA:2138:C:H2'	25:BA:2139:C:C6	2.41	0.55
25:BA:2126:A:C1'	25:BA:2162:G:H21	2.17	0.55
25:BA:215:G:HO2'	25:BA:216:A:P	2.30	0.55
25:BA:411:G:C5'	25:BA:2407:G:OP2	2.48	0.55
25:BA:2505:G:N9	25:BA:2576:G:N2	2.55	0.55
25:BA:2568:C:H2'	25:BA:2569:G:C5'	2.37	0.55
25:BA:1966:A:N3	25:BA:2593:U:C4'	2.69	0.55
25:BA:270(E):G:H2'	25:BA:270(F):U:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:270(T):G:C6	25:BA:270(U):C:C4	2.95	0.55
25:BA:280:C:O3'	25:BA:281:G:C3'	2.47	0.55
25:BA:287:C:C3'	25:BA:288:C:C5	2.89	0.55
25:BA:460:A:H3'	25:BA:461:C:C5	2.42	0.55
25:BA:476:G:N1	25:BA:479:A:OP2	2.31	0.55
25:BA:60:G:H21	25:BA:74:A:C4'	2.11	0.55
25:BA:715:G:C2'	25:BA:716:A:O5'	2.53	0.55
25:BA:721:C:C2	25:BA:722:A:C8	2.95	0.55
25:BA:728:G:C2	25:BA:763:G:OP1	2.59	0.55
25:BA:827:U:O2'	25:BA:828:U:OP2	2.21	0.55
25:BA:869:G:H2'	25:BA:870:A:C4'	2.37	0.55
25:BA:92:G:H3'	25:BA:92:G:P	2.46	0.55
26:BB:60:C:O2	26:BB:61:G:N7	2.40	0.55
26:BB:68:C:C4	26:BB:69:G:N7	2.74	0.55
27:BC:32:LEU:HB3	27:BC:220:PRO:CG	2.28	0.55
28:BD:112:GLN:N	28:BD:115:GLN:NE2	2.41	0.55
25:BA:728:G:H5'	28:BD:16:MET:CE	2.37	0.55
28:BD:161:THR:N	28:BD:196:VAL:HG21	2.21	0.55
28:BD:21:PHE:O	28:BD:205:VAL:HG13	2.06	0.55
28:BD:236:GLY:O	28:BD:237:GLU:CG	2.53	0.55
28:BD:267:SER:OG	28:BD:268:ARG:N	2.39	0.55
25:BA:1824:G:OP1	28:BD:53:PHE:CE2	2.59	0.55
28:BD:78:LYS:HA	28:BD:115:GLN:O	2.07	0.55
29:BE:23:VAL:HG11	29:BE:188:VAL:CG2	2.36	0.55
29:BE:39:PRO:HD2	29:BE:40:GLU:H	1.72	0.55
25:BA:2787:C:C1'	29:BE:61:ARG:HG3	2.37	0.55
30:BF:137:LYS:HZ3	30:BF:137:LYS:HA	1.70	0.55
30:BF:44:ARG:CG	30:BF:45:ARG:N	2.70	0.55
31:BG:79:ASN:N	31:BG:82:LEU:HG	2.22	0.55
32:BH:105:LEU:O	32:BH:113:VAL:CG2	2.55	0.55
32:BH:12:PRO:O	32:BH:13:LYS:O	2.24	0.55
32:BH:17:VAL:HG22	32:BH:17:VAL:O	2.07	0.55
32:BH:7:LEU:N	32:BH:8:PRO:CD	2.69	0.55
33:BK:6:LEU:O	33:BK:15:VAL:HG23	2.06	0.55
36:BN:2:ILE:HA	36:BN:3:GLN:NE2	2.21	0.55
36:BN:52:VAL:CG2	36:BN:53:LYS:H	2.19	0.55
36:BN:65:THR:HA	36:BN:77:ILE:HG13	1.87	0.55
36:BN:3:GLN:HG2	36:BN:6:THR:CB	2.37	0.55
37:BO:35:HIS:C	37:BO:36:LYS:HE2	2.27	0.55
38:BP:54:MET:HB3	38:BP:58:PHE:CE2	2.42	0.55
38:BP:65:PHE:CA	38:BP:105:GLU:HG3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:71:ASP:HB2	38:BP:94:VAL:O	2.06	0.55
38:BP:77:LYS:HE2	38:BP:87:LYS:HZ3	1.72	0.55
38:BP:79:LEU:O	38:BP:80:GLU:HB3	2.05	0.55
39:BQ:79:LEU:HD23	39:BQ:80:PHE:H	1.69	0.55
39:BQ:52:ILE:HD12	39:BQ:94:TYR:CD1	2.42	0.55
40:BR:57:LYS:HG2	40:BR:57:LYS:O	2.06	0.55
42:BT:46:ALA:N	42:BT:49:HIS:ND1	2.55	0.55
43:BU:67:GLY:N	43:BU:94:LEU:HD23	2.21	0.55
46:BX:75:ILE:CG2	46:BX:100:ALA:HB2	2.37	0.55
46:BX:81:LYS:HD3	46:BX:96:ILE:CG1	2.30	0.55
47:BY:42:VAL:C	47:BY:46:LYS:HZ2	2.10	0.55
48:BZ:71:ASP:OD1	48:BZ:77:ARG:HD3	2.07	0.55
33:BK:91:SER:CB	33:BK:121:LYS:HG2	2.37	0.55
25:BA:1081:U:O4	25:BA:1086:A:H2	1.88	0.55
1:AA:1539:C:C2'	1:AA:1540:U:H5''	2.36	0.55
1:AA:1004:A:H8	1:AA:1036:G:C6	2.25	0.55
26:BB:1:U:O4	26:BB:2:C:N4	2.40	0.55
1:AA:1163:C:N4	1:AA:1174:G:C6	2.74	0.55
1:AA:128:G:H4'	20:AT:3:LYS:CG	2.36	0.55
1:AA:9:G:C2	1:AA:26:A:N1	2.75	0.55
1:AA:367:U:O2'	1:AA:368:U:H4'	2.06	0.55
1:AA:518:C:H5'	1:AA:530:G:O4'	2.06	0.55
1:AA:682:G:C6	1:AA:709:G:C6	2.94	0.55
1:AA:709:G:O2'	1:AA:710:G:H5'	2.07	0.55
1:AA:740:U:H4'	18:AR:42:HIS:HD2	1.72	0.55
1:AA:780:A:H1'	1:AA:802:A:N6	2.21	0.55
1:AA:907:A:H3'	1:AA:908:A:H8	1.72	0.55
5:AE:118:LEU:HD21	5:AE:142:LEU:HB2	1.88	0.55
5:AE:162:ILE:HD11	5:AE:184:VAL:HG22	1.89	0.55
5:AE:171:ALA:HA	5:AE:174:VAL:HB	1.89	0.55
5:AE:59:GLU:HB3	5:AE:221:LEU:HD21	1.88	0.55
5:AE:81:VAL:HA	5:AE:215:LEU:HD11	1.87	0.55
6:AF:113:ALA:N	6:AF:114:PRO:CD	2.69	0.55
6:AF:110:ASN:HD21	6:AF:140:ARG:HG2	1.72	0.55
6:AF:33:LEU:O	6:AF:36:ASP:HB3	2.06	0.55
6:AF:38:ARG:C	6:AF:94:LEU:HD11	2.27	0.55
6:AF:59:ARG:HE	6:AF:64:VAL:HA	1.71	0.55
9:AI:47:ARG:HD3	9:AI:57:GLN:HG3	1.87	0.55
11:AK:83:ILE:HG13	11:AK:135:CYS:SG	2.47	0.55
11:AK:85:ARG:HG2	11:AK:85:ARG:HH11	1.72	0.55
13:AM:24:VAL:HG13	13:AM:34:VAL:CB	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:5:PRO:O	15:AO:6:THR:HG23	2.06	0.55
16:AP:29:ARG:HH12	16:AP:66:LEU:HB3	1.72	0.55
16:AP:52:GLU:HB3	16:AP:55:ARG:CZ	2.37	0.55
1:AA:453:A:H4'	19:AS:72:ARG:CG	2.34	0.55
20:AT:67:LYS:CA	20:AT:70:ARG:HH22	2.16	0.55
20:AT:95:TYR:O	20:AT:97:SER:N	2.39	0.55
21:AU:47:THR:HB	21:AU:49:LYS:CE	2.37	0.55
23:AW:43:LEU:HD21	23:AW:48:LYS:HB2	1.88	0.55
49:B1:46:ARG:HG2	49:B1:50:ARG:NH2	2.21	0.55
52:B4:52:TYR:O	52:B4:53:ALA:HB2	2.07	0.55
39:BQ:33:ARG:NH2	52:B4:56:LYS:HB2	2.22	0.55
54:B6:48:LYS:CE	54:B6:49:ARG:H	2.19	0.55
55:B7:10:ALA:HB1	55:B7:64:TYR:HE2	1.65	0.55
56:B8:32:HIS:O	56:B8:34:GLN:N	2.40	0.55
25:BA:1108:U:C5	25:BA:1109:C:C4	2.95	0.55
25:BA:1166:C:N3	25:BA:1184:G:N1	2.55	0.55
25:BA:1234:U:O2'	25:BA:1235:G:C5'	2.54	0.55
25:BA:1248:G:O2'	25:BA:1249:U:P	2.64	0.55
25:BA:1264:G:N7	25:BA:1265:A:N9	2.54	0.55
25:BA:1278:A:H5''	39:BQ:36:THR:HG22	1.88	0.55
25:BA:1352:U:C1'	25:BA:1570:A:C2	2.89	0.55
25:BA:1449:A:O4'	25:BA:1529:A:C6	2.60	0.55
25:BA:164:U:H2'	25:BA:164:U:O2	2.06	0.55
25:BA:1650:G:O6	25:BA:2008:C:N4	2.39	0.55
25:BA:1776:G:C2'	25:BA:1777:U:O5'	2.54	0.55
25:BA:1791:A:C2	25:BA:1829:A:C4'	2.90	0.55
25:BA:1826:G:H8	25:BA:1826:G:O5'	1.90	0.55
25:BA:1853:A:O2'	25:BA:1854:A:O4'	2.24	0.55
25:BA:1955:U:O2	25:BA:1955:U:H2'	2.07	0.55
25:BA:1967:C:C4	25:BA:1968:G:N2	2.75	0.55
25:BA:191:A:H62	25:BA:204:A:N6	2.04	0.55
25:BA:2072:G:C5	25:BA:2073:C:C5	2.95	0.55
25:BA:2213:U:C3'	25:BA:2213:U:O2	2.55	0.55
25:BA:224:G:N2	25:BA:225:A:H1'	2.21	0.55
25:BA:2286:A:OP2	53:B5:27:LYS:CE	2.55	0.55
25:BA:2432:A:H2'	25:BA:2433:A:C8	2.41	0.55
25:BA:2682:U:C2'	25:BA:2683:C:O5'	2.55	0.55
25:BA:2815:C:O2'	25:BA:2816:C:C5'	2.54	0.55
25:BA:2822:G:OP2	39:BQ:4:LEU:HD21	2.06	0.55
25:BA:386:G:H4'	25:BA:387:U:H6	1.69	0.55
25:BA:397:G:P	51:B3:59:PHE:HZ	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:515:A:C3'	25:BA:515:A:C8	2.89	0.55
25:BA:606:U:H3'	30:BF:103:LYS:HZ2	1.71	0.55
25:BA:679:C:H2'	25:BA:680:G:H8	1.71	0.55
25:BA:782:A:C4'	25:BA:783:A:OP1	2.54	0.55
25:BA:785:G:N3	25:BA:786:C:C6	2.75	0.55
25:BA:826:U:H3'	25:BA:828:U:C5	2.41	0.55
25:BA:825:C:O2'	25:BA:826:U:H5'	2.06	0.55
27:BC:108:MET:HG3	27:BC:110:PHE:CE1	2.42	0.55
25:BA:2177:C:H5''	27:BC:213:TYR:CE2	2.42	0.55
28:BD:118:VAL:O	28:BD:119:ALA:HB2	2.07	0.55
28:BD:206:LEU:CD2	28:BD:207:GLY:N	2.57	0.55
25:BA:1799:G:C5'	28:BD:264:LYS:HE2	2.25	0.55
29:BE:196:VAL:HG13	29:BE:197:ILE:H	1.69	0.55
29:BE:25:VAL:CG2	29:BE:182:LEU:HB3	2.37	0.55
29:BE:4:ILE:HG13	29:BE:27:LEU:HD13	1.89	0.55
29:BE:49:LEU:HD12	29:BE:50:GLY:N	2.21	0.55
31:BG:137:GLU:CG	31:BG:138:GLN:N	2.70	0.55
31:BG:28:VAL:HG12	31:BG:28:VAL:O	2.05	0.55
31:BG:29:TRP:C	31:BG:31:VAL:H	2.09	0.55
32:BH:162:ILE:C	32:BH:163:TYR:CD1	2.80	0.55
32:BH:66:GLY:O	32:BH:69:ARG:CG	2.55	0.55
32:BH:24:VAL:HG21	32:BH:72:ILE:CD1	2.35	0.55
35:BM:16:ILE:HD12	35:BM:16:ILE:H	1.70	0.55
35:BM:46:VAL:O	35:BM:47:ALA:CB	2.54	0.55
29:BE:152:LYS:HE2	35:BM:77:GLY:HA3	1.89	0.55
36:BN:15:GLY:O	36:BN:47:ILE:CA	2.52	0.55
36:BN:25:LEU:HD12	36:BN:58:VAL:HG12	1.88	0.55
37:BO:126:VAL:HB	37:BO:146:VAL:CG2	2.37	0.55
37:BO:16:ARG:C	37:BO:16:ARG:HD2	2.27	0.55
37:BO:75:ILE:O	37:BO:101:VAL:HG12	2.07	0.55
38:BP:51:ARG:NH2	38:BP:63:LYS:NZ	2.55	0.55
39:BQ:102:GLU:CD	39:BQ:103:ARG:N	2.60	0.55
41:BS:33:LYS:CD	41:BS:45:PHE:CD2	2.79	0.55
41:BS:85:LYS:HB3	41:BS:85:LYS:HZ2	1.72	0.55
43:BU:90:PRO:O	43:BU:91:TYR:CG	2.59	0.55
44:BV:65:LEU:HB2	44:BV:68:ARG:HG2	1.87	0.55
45:BW:36:LYS:HE3	45:BW:56:THR:HG23	1.88	0.55
46:BX:46:LYS:HB3	46:BX:46:LYS:NZ	2.22	0.55
46:BX:13:VAL:CG1	46:BX:73:ARG:HE	2.20	0.55
46:BX:75:ILE:HG22	46:BX:100:ALA:HB1	1.89	0.55
25:BA:297:C:H4'	46:BX:83:THR:HG21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BL:131:ALA:C	34:BL:136:VAL:HB	2.26	0.55
34:BL:37:PHE:CD1	34:BL:57:ILE:HD12	2.41	0.55
34:BL:78:ILE:HD13	34:BL:131:ALA:CA	2.36	0.55
1:AA:386:C:O5'	1:AA:386:C:H6	1.89	0.55
1:AA:1057:G:H2'	1:AA:1058:G:H8	1.71	0.55
1:AA:1169:A:C6	1:AA:1170:A:N1	2.75	0.55
1:AA:1187:G:H2'	1:AA:1188:A:H8	1.72	0.55
1:AA:1210:C:H5''	1:AA:1214:C:H42	1.71	0.55
1:AA:1267:C:C2'	1:AA:1267:C:O2	2.47	0.55
1:AA:1323:G:C4	1:AA:1324:A:N7	2.75	0.55
1:AA:1399:C:H42	1:AA:1401:G:N2	2.04	0.55
1:AA:1491:G:OP2	1:AA:1491:G:H3'	2.07	0.55
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.24	0.55
1:AA:269:C:H2'	1:AA:270:A:C8	2.41	0.55
1:AA:658:G:C6	1:AA:659:U:C4	2.95	0.55
1:AA:914:A:O2'	1:AA:915:A:O5'	2.25	0.55
5:AE:97:TRP:CE3	5:AE:172:ILE:HB	2.42	0.55
5:AE:61:LEU:HG	5:AE:66:GLY:O	2.07	0.55
6:AF:8:ILE:HG13	6:AF:16:ARG:HD2	1.87	0.55
7:AG:101:LEU:CD1	7:AG:105:VAL:HG23	2.37	0.55
7:AG:187:ARG:HH21	7:AG:188:LEU:HD21	1.72	0.55
8:AH:37:ARG:HH12	8:AH:112:LEU:CD2	2.18	0.55
8:AH:80:ILE:HG22	11:AK:104:ARG:NH2	2.22	0.55
10:AJ:75:VAL:HG22	10:AJ:88:PRO:CB	2.37	0.55
10:AJ:90:GLU:O	10:AJ:91:VAL:HG23	2.07	0.55
11:AK:10:LEU:HD22	11:AK:83:ILE:HD11	1.89	0.55
12:AL:19:LEU:HD22	12:AL:59:PHE:HB3	1.89	0.55
1:AA:684:A:H1'	14:AN:38:ASN:HB3	1.87	0.55
1:AA:658:G:H5''	18:AR:8:LYS:HZ3	1.70	0.55
19:AS:18:ARG:HB3	19:AS:20:VAL:CG2	2.36	0.55
19:AS:31:LYS:HG2	19:AS:32:TYR:H	1.72	0.55
19:AS:4:ILE:HG12	19:AS:66:PRO:HA	1.89	0.55
20:AT:59:ILE:CD1	20:AT:72:ARG:O	2.49	0.55
9:AI:7:ASN:HB3	21:AU:76:LEU:HD11	1.88	0.55
21:AU:81:PHE:O	21:AU:82:THR:CG2	2.54	0.55
49:B1:26:GLU:HA	49:B1:29:GLU:HG2	1.89	0.55
50:B2:12:PRO:HA	50:B2:15:TYR:HE2	1.63	0.55
50:B2:29:ARG:CB	50:B2:30:ARG:CZ	2.85	0.55
51:B3:56:VAL:C	51:B3:61:ARG:NH2	2.60	0.55
25:BA:2045:C:O2'	52:B4:22:HIS:CB	2.55	0.55
54:B6:30:VAL:HG13	54:B6:33:ARG:CZ	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B6:48:LYS:HE2	54:B6:49:ARG:H	1.72	0.55
25:BA:104:U:H2'	25:BA:104:U:O2	2.06	0.55
25:BA:1160:G:H2'	25:BA:1161:C:H5	1.72	0.55
25:BA:1213:A:C6	25:BA:1214:A:N7	2.75	0.55
25:BA:1324:G:C2	25:BA:1331:A:C2	2.94	0.55
25:BA:1343:G:N2	25:BA:1405:U:N1	2.55	0.55
25:BA:1353:A:C6	25:BA:1378:A:C5	2.94	0.55
25:BA:1510:A:C4	25:BA:1511:A:H2	2.23	0.55
25:BA:1429:G:H1'	25:BA:1568:G:N3	2.21	0.55
25:BA:1838:C:C2'	25:BA:1838:C:O2	2.54	0.55
25:BA:1911:U:HO2'	25:BA:1912:A:H5'	1.70	0.55
25:BA:1906:G:C2	25:BA:1929:G:O6	2.60	0.55
25:BA:1942:C:OP2	25:BA:1943:U:H3'	2.07	0.55
25:BA:1999:C:N3	25:BA:2000:G:N7	2.55	0.55
25:BA:980:A:C2	25:BA:2038:G:O4'	2.60	0.55
25:BA:2094:G:C5	25:BA:2095:C:C4	2.95	0.55
25:BA:2093:G:H2'	25:BA:2094:G:O5'	2.07	0.55
25:BA:2157:G:O2'	25:BA:2158:A:OP1	2.25	0.55
25:BA:2216:G:H2'	25:BA:2217:G:H5'	1.86	0.55
25:BA:2258:C:C4	25:BA:2426:A:O4'	2.60	0.55
25:BA:2266:A:O2'	25:BA:2271:G:O6	2.16	0.55
25:BA:2315:G:O2'	31:BG:128:ARG:HD3	2.07	0.55
25:BA:224:G:O6	25:BA:232:G:N2	2.40	0.55
25:BA:2320:A:C4	25:BA:2333:A:N1	2.75	0.55
3:AD:76:A:N7	25:BA:2432:A:N3	2.55	0.55
25:BA:2470:G:N2	25:BA:2471:C:C2	2.75	0.55
25:BA:2529:G:C5'	25:BA:2530:A:O5'	2.55	0.55
25:BA:262:A:C2'	25:BA:263:C:H5'	2.35	0.55
25:BA:2649:U:O2'	25:BA:2650:U:C5'	2.55	0.55
25:BA:2657:A:C5	25:BA:2665:A:N6	2.75	0.55
25:BA:270(M):U:C3'	25:BA:270(N):G:H4'	2.36	0.55
25:BA:270(X):G:C2	25:BA:270(Y):G:O2'	2.59	0.55
25:BA:2639:A:N3	25:BA:2778:A:C2	2.75	0.55
25:BA:281:G:H2'	25:BA:282:A:OP2	2.07	0.55
25:BA:339:U:N3	25:BA:340:A:N6	2.55	0.55
25:BA:388:G:C2'	25:BA:390:A:H62	2.19	0.55
25:BA:448:U:O2'	25:BA:449:A:OP1	2.19	0.55
25:BA:544:C:H2'	25:BA:545:G:O5'	2.07	0.55
25:BA:553:U:H2'	25:BA:554:U:O4'	2.06	0.55
25:BA:60:G:N2	25:BA:68:G:N2	2.54	0.55
25:BA:624:C:H2'	25:BA:657:U:OP1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:738:G:N7	25:BA:739:G:C2	2.75	0.55
25:BA:775:G:H4'	25:BA:777:A:C4	2.42	0.55
25:BA:826:U:H2'	25:BA:828:U:C6	2.42	0.55
25:BA:664:C:H1'	25:BA:940:G:OP1	2.07	0.55
25:BA:971:C:OP2	25:BA:974(A):C:C5	2.60	0.55
25:BA:973:A:O2'	25:BA:974:G:P	2.65	0.55
26:BB:75:G:C6	26:BB:102:G:N2	2.75	0.55
27:BC:160:ARG:HD3	27:BC:161:ILE:N	2.22	0.55
28:BD:118:VAL:CG1	28:BD:119:ALA:H	2.20	0.55
28:BD:244:ARG:NE	28:BD:252:TRP:CD1	2.75	0.55
28:BD:27:THR:HG22	28:BD:29:PRO:HD2	1.87	0.55
28:BD:7:LYS:CD	28:BD:91:ARG:NH2	2.70	0.55
25:BA:2579:C:O3'	29:BE:132:HIS:CE1	2.59	0.55
29:BE:17:ASP:N	29:BE:17:ASP:OD2	2.37	0.55
29:BE:104:VAL:CG1	29:BE:196:VAL:HG11	2.37	0.55
30:BF:157:VAL:HG13	30:BF:176:LEU:HD23	1.89	0.55
30:BF:83:PHE:O	30:BF:84:VAL:O	2.24	0.55
31:BG:56:ALA:HB3	31:BG:68:PRO:CB	2.37	0.55
32:BH:11:VAL:O	32:BH:12:PRO:O	2.25	0.55
33:BK:38:LEU:C	33:BK:38:LEU:HD13	2.27	0.55
35:BM:109:LYS:O	35:BM:109:LYS:HG3	2.05	0.55
35:BM:38:HIS:H	35:BM:42:TRP:HB3	1.72	0.55
35:BM:4:TYR:O	42:BT:64:ARG:NH1	2.39	0.55
36:BN:80:ASP:OD1	36:BN:81:ASP:N	2.40	0.55
37:BO:32:THR:OG1	37:BO:35:HIS:ND1	2.31	0.55
25:BA:672:C:OP2	37:BO:38:GLN:HG2	2.05	0.55
37:BO:52:GLU:CD	37:BO:52:GLU:H	2.10	0.55
38:BP:56:ARG:NH2	38:BP:57:HIS:HB2	2.21	0.55
38:BP:64:ILE:HB	38:BP:105:GLU:HB3	1.88	0.55
40:BR:39:ILE:HD12	40:BR:49:VAL:HG12	1.89	0.55
41:BS:2:ASN:OD1	41:BS:3:ARG:CG	2.53	0.55
25:BA:29:U:H4'	42:BT:11:ARG:HH21	1.71	0.55
42:BT:27:LEU:HD11	52:B4:12:SER:CB	2.37	0.55
42:BT:3:ARG:O	42:BT:4:ALA:CB	2.54	0.55
45:BW:65:ARG:HG2	45:BW:70:LEU:CD1	2.36	0.55
46:BX:13:VAL:HG13	46:BX:70:SER:O	2.06	0.55
47:BY:43:GLU:O	47:BY:47:VAL:HG23	2.06	0.55
47:BY:60:GLU:HG3	47:BY:69:THR:HG22	1.88	0.55
7:AG:47:ARG:CB	7:AG:47:ARG:HH11	2.20	0.55
1:AA:841:U:H2'	1:AA:842:C:OP1	2.07	0.55
14:AN:11:LYS:HA	14:AN:75:TYR:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.88	0.55
1:AA:1212:U:O2'	1:AA:1213:A:O4'	2.24	0.55
1:AA:122:G:N2	1:AA:123:C:O2	2.40	0.55
1:AA:1249:C:OP2	1:AA:1249:C:O4'	2.24	0.55
1:AA:1285:A:O2'	1:AA:1286:A:OP2	2.21	0.55
1:AA:1289:A:O2'	1:AA:1290:G:H5'	2.07	0.55
1:AA:131:C:N4	1:AA:232:G:N1	2.55	0.55
1:AA:1402:C:N4	1:AA:1403:C:C4	2.75	0.55
1:AA:1507:A:H2'	1:AA:1508:G:C8	2.42	0.55
1:AA:193:C:H2'	1:AA:194:C:H6	1.71	0.55
1:AA:235:C:C2	1:AA:236:G:N7	2.75	0.55
1:AA:247:G:C2	1:AA:248:C:C6	2.95	0.55
1:AA:282:A:C8	1:AA:283:C:H5	2.25	0.55
1:AA:513:C:H2'	1:AA:514:C:H6	1.69	0.55
1:AA:713:G:H21	1:AA:777:A:C1'	2.09	0.55
1:AA:781:A:H8	1:AA:781:A:H5'	1.72	0.55
1:AA:818:G:C3'	1:AA:819:A:H5'	2.35	0.55
1:AA:975:A:C4'	1:AA:976:G:H5'	2.36	0.55
1:AA:994:A:H3'	1:AA:995:C:H6	1.72	0.55
1:AA:993:G:C2	1:AA:995:C:N4	2.75	0.55
3:AD:75:C:H6	3:AD:76:A:O3'	1.89	0.55
5:AE:132:LYS:NZ	5:AE:132:LYS:HB3	2.20	0.55
5:AE:150:SER:O	5:AE:151:GLY:C	2.43	0.55
5:AE:153:ARG:HH12	5:AE:156:LYS:CG	2.20	0.55
5:AE:91:PRO:CD	5:AE:154:LEU:HD13	2.37	0.55
6:AF:56:ASP:O	6:AF:66:VAL:HA	2.07	0.55
1:AA:619:U:O4	7:AG:134:ASP:OD1	2.25	0.55
7:AG:14:ARG:HD3	7:AG:15:GLU:CA	2.37	0.55
7:AG:148:VAL:HG11	7:AG:158:ILE:HG23	1.89	0.55
7:AG:200:GLU:CG	7:AG:201:GLN:N	2.69	0.55
7:AG:30:LYS:N	7:AG:34:GLU:HB3	2.22	0.55
8:AH:48:ALA:HB3	8:AH:54:ALA:N	2.22	0.55
9:AI:41:GLU:HB2	9:AI:62:TRP:HE3	1.72	0.55
9:AI:61:LEU:CB	9:AI:63:TYR:OH	2.50	0.55
9:AI:86:ARG:O	9:AI:87:ARG:CG	2.51	0.55
10:AJ:78:ARG:NE	10:AJ:79:ARG:O	2.40	0.55
11:AK:123:GLU:O	11:AK:126:LYS:HE3	2.07	0.55
11:AK:16:ALA:HB1	11:AK:21:LYS:HG3	1.89	0.55
11:AK:8:ASP:O	11:AK:11:THR:OG1	2.25	0.55
14:AN:105:VAL:HG12	14:AN:105:VAL:O	2.07	0.55
14:AN:29:ILE:HG22	14:AN:44:SER:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:86:ARG:HB3	15:AO:101:VAL:CG1	2.36	0.55
15:AO:32:PHE:HB3	15:AO:85:ILE:O	2.07	0.55
15:AO:57:LYS:HE2	15:AO:67:THR:HG23	1.88	0.55
21:AU:67:ALA:O	21:AU:70:ILE:N	2.40	0.55
49:B1:19:LEU:C	49:B1:19:LEU:HD22	2.28	0.55
49:B1:24:LYS:CG	49:B1:52:ILE:HG21	2.36	0.55
50:B2:37:LEU:CD2	50:B2:37:LEU:O	2.53	0.55
51:B3:10:VAL:N	51:B3:11:PRO:CD	2.69	0.55
25:BA:389:G:H5'	51:B3:24:THR:HG21	1.89	0.55
54:B6:34:ARG:O	54:B6:35:ARG:C	2.46	0.55
25:BA:1613:G:H1'	54:B6:3:ARG:NE	2.22	0.55
25:BA:1139:G:OP1	35:BM:23:LEU:HB2	2.07	0.55
25:BA:1161:C:H6	25:BA:1161:C:O5'	1.89	0.55
25:BA:974:G:N2	25:BA:1187:G:C6	2.74	0.55
25:BA:1242:A:P	25:BA:1242:A:O4'	2.64	0.55
25:BA:1301:A:H2'	25:BA:1302:A:O5'	2.07	0.55
25:BA:1350:C:N3	25:BA:1351:C:C5	2.75	0.55
25:BA:1366:A:C2	25:BA:1367:A:N9	2.75	0.55
25:BA:1449(A):G:N2	25:BA:1450:C:C2	2.75	0.55
25:BA:1472:A:O2'	25:BA:1473:G:C8	2.59	0.55
25:BA:1521:G:O5'	25:BA:1522:G:OP2	2.24	0.55
25:BA:1525:G:C4	25:BA:1526:G:N7	2.75	0.55
25:BA:1624:G:C2	25:BA:1625:C:N4	2.74	0.55
25:BA:172:C:C2	25:BA:173:G:N7	2.75	0.55
25:BA:1846:G:C2	25:BA:1895:C:N3	2.75	0.55
25:BA:1931:U:O4	25:BA:1969:A:N7	2.41	0.55
25:BA:2037:G:H2'	25:BA:2038:G:C8	2.42	0.55
25:BA:2087:G:H2'	25:BA:2088:G:H5'	1.88	0.55
25:BA:2126:A:O2'	25:BA:2127:G:OP2	2.22	0.55
25:BA:2218:G:N3	25:BA:2219:G:C8	2.75	0.55
25:BA:2065:C:H5'	25:BA:2252:G:O4'	2.05	0.55
25:BA:2071:A:C2	25:BA:2441:C:N3	2.75	0.55
25:BA:2459:A:C2	25:BA:2460:U:C2	2.93	0.55
25:BA:2486:G:N2	25:BA:2487:G:C4	2.75	0.55
25:BA:2491:U:C6	25:BA:2492:U:P	2.99	0.55
25:BA:2450:A:OP1	25:BA:2497:A:C5	2.60	0.55
25:BA:2543:G:C8	25:BA:2544:G:N7	2.75	0.55
25:BA:221:A:N6	25:BA:265:A:N6	2.51	0.55
25:BA:2773:C:C2	25:BA:2774:C:C5	2.95	0.55
25:BA:2782:G:C2	25:BA:2783:G:C8	2.95	0.55
25:BA:2799:A:O2'	25:BA:2802:G:C5	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2831:G:C1'	25:BA:2883:A:C2	2.89	0.55
25:BA:2843:G:N2	25:BA:2875:C:C4	2.75	0.55
25:BA:28:A:N1	25:BA:29:U:H1'	2.21	0.55
25:BA:363(C):G:H2'	25:BA:363(D):G:C5'	2.37	0.55
25:BA:618(A):C:C5	25:BA:619:G:N2	2.75	0.55
25:BA:697:C:H2'	25:BA:698:C:H5'	1.87	0.55
25:BA:710:G:H2'	25:BA:711:G:C8	2.42	0.55
25:BA:714:U:C2'	25:BA:715:G:C8	2.83	0.55
25:BA:830:G:H2'	25:BA:830:G:N3	2.22	0.55
25:BA:830:G:O6	25:BA:2446:G:O4'	2.24	0.55
25:BA:943:U:H5'	37:BO:35:HIS:CE1	2.42	0.55
26:BB:40:U:H3'	26:BB:41:U:H5'	1.88	0.55
27:BC:160:ARG:C	27:BC:161:ILE:HD13	2.26	0.55
27:BC:20:TYR:HE1	27:BC:222:VAL:HG13	1.71	0.55
28:BD:181:GLU:OE1	28:BD:270:ILE:CG2	2.55	0.55
29:BE:105:THR:CB	29:BE:166:THR:HB	2.36	0.55
29:BE:12:THR:CA	29:BE:21:VAL:HG23	2.36	0.55
30:BF:25:PRO:C	30:BF:27:GLU:N	2.58	0.55
31:BG:22:ARG:CG	31:BG:23:PHE:N	2.66	0.55
31:BG:61:ALA:N	31:BG:66:GLN:O	2.39	0.55
32:BH:135:GLY:HA3	32:BH:141:VAL:HG21	1.87	0.55
32:BH:91:GLY:HA3	32:BH:160:LYS:O	2.07	0.55
32:BH:157:TYR:HA	32:BH:172:LYS:O	2.06	0.55
35:BM:78:TYR:O	35:BM:80:GLY:N	2.40	0.55
37:BO:83:VAL:O	37:BO:84:ASN:CB	2.54	0.55
38:BP:61:GLY:O	47:BY:177:PRO:O	2.25	0.55
25:BA:2690:C:H41	39:BQ:14:SER:C	2.10	0.55
40:BR:93:LYS:O	40:BR:98:VAL:HG13	2.07	0.55
43:BU:24:LYS:N	43:BU:28:GLU:OE2	2.40	0.55
43:BU:39:LEU:O	43:BU:54:GLY:CA	2.54	0.55
44:BV:43:GLY:O	44:BV:44:ALA:C	2.45	0.55
25:BA:1335:U:P	45:BW:65:ARG:CZ	2.94	0.55
45:BW:28:PHE:HZ	45:BW:89:ILE:HD13	1.71	0.55
46:BX:83:THR:HG21	46:BX:84:ARG:NH2	2.22	0.55
47:BY:50:GLN:O	47:BY:52:SER:N	2.31	0.55
48:BZ:44:ARG:HE	48:BZ:77:ARG:HD2	1.71	0.55
1:AA:87:A:C8	1:AA:88:C:C2	2.95	0.55
39:BQ:118:GLU:HA	39:BQ:118:GLU:OE2	2.06	0.55
1:AA:124:G:OP1	1:AA:310:G:N2	2.37	0.54
1:AA:1351:U:O4'	10:AJ:33:ASP:OD1	2.25	0.54
1:AA:1486:G:C2	1:AA:1487:G:N3	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1495:U:H2'	1:AA:1496:C:O5'	2.06	0.54
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.07	0.54
1:AA:1507:A:N1	1:AA:1530:G:C1'	2.69	0.54
1:AA:126:G:C6	1:AA:236:G:O6	2.60	0.54
1:AA:46:G:C6	1:AA:396:G:O6	2.60	0.54
1:AA:402:G:C6	1:AA:403:C:C5	2.95	0.54
1:AA:496:A:H4'	1:AA:497:U:OP1	2.08	0.54
1:AA:521:G:O2'	1:AA:522:C:H5'	2.07	0.54
1:AA:547:A:C4'	1:AA:548:G:OP1	2.54	0.54
1:AA:603:U:O2'	1:AA:604:G:H5'	2.07	0.54
1:AA:624:C:H2'	1:AA:625:G:H8	1.71	0.54
1:AA:652:U:O2	1:AA:753:A:N7	2.39	0.54
1:AA:67:C:H5'	1:AA:172:A:O2'	2.07	0.54
1:AA:570:G:O6	1:AA:865:A:N6	2.39	0.54
1:AA:950:U:C2	1:AA:951:G:C8	2.95	0.54
2:AC:35:A:C5'	2:AC:35:A:H8	2.18	0.54
2:AC:65:C:H2'	2:AC:66:C:C6	2.40	0.54
3:AD:60:U:C3'	3:AD:60:U:C6	2.90	0.54
5:AE:53:ARG:CA	5:AE:56:ARG:HH12	2.20	0.54
5:AE:82:ARG:O	5:AE:86:GLU:HG3	2.07	0.54
1:AA:1256:A:H5''	6:AF:27:LYS:NZ	2.22	0.54
7:AG:129:ASN:CG	7:AG:145:GLU:HG3	2.26	0.54
7:AG:152:SER:O	7:AG:154:ASN:N	2.38	0.54
7:AG:148:VAL:HB	7:AG:181:MET:CE	2.37	0.54
10:AJ:11:GLN:NE2	10:AJ:12:LEU:O	2.40	0.54
11:AK:36:LEU:O	11:AK:39:LEU:HB2	2.07	0.54
11:AK:64:LYS:HB3	11:AK:79:VAL:HB	1.89	0.54
1:AA:1118:C:H5'	12:AL:103:THR:OG1	2.06	0.54
12:AL:9:ARG:HD2	12:AL:14:VAL:HA	1.88	0.54
13:AM:16:LEU:HD22	13:AM:16:LEU:H	1.71	0.54
13:AM:3:LYS:HE2	13:AM:77:PRO:HD3	1.88	0.54
13:AM:60:ARG:CA	13:AM:60:ARG:HH11	2.18	0.54
14:AN:85:ARG:HE	14:AN:113:PRO:HD3	1.72	0.54
15:AO:27:LEU:CD2	15:AO:61:THR:O	2.52	0.54
16:AP:39:ILE:HG21	16:AP:56:LEU:CD1	2.37	0.54
18:AR:5:LYS:NZ	18:AR:5:LYS:CB	2.69	0.54
19:AS:42:ARG:C	19:AS:43:LYS:CD	2.75	0.54
20:AT:19:VAL:O	20:AT:43:LEU:HD22	2.07	0.54
23:AW:49:ALA:O	23:AW:52:ALA:HB3	2.07	0.54
25:BA:127:A:N6	54:B6:18:PHE:HZ	2.05	0.54
54:B6:40:TRP:C	54:B6:41:ARG:HG2	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B7:6:THR:O	55:B7:8:LYS:N	2.40	0.54
56:B8:17:ILE:HD12	56:B8:26:ILE:HD12	1.88	0.54
25:BA:1021:A:N6	25:BA:1022:G:H21	2.05	0.54
25:BA:1027:A:C6	25:BA:1126:A:N3	2.75	0.54
25:BA:1312:U:H2'	25:BA:1313:U:C1'	2.37	0.54
25:BA:1389:G:H5'	25:BA:1525:G:H5'	1.90	0.54
25:BA:1392:A:C5	25:BA:1393:A:N6	2.75	0.54
25:BA:1494:A:N6	25:BA:1495:A:C4	2.75	0.54
25:BA:1657:C:HO2'	25:BA:1658:C:C4'	2.20	0.54
25:BA:1664:A:C2'	25:BA:1665:A:C8	2.83	0.54
25:BA:1758:G:N7	25:BA:2695:C:O2'	2.31	0.54
25:BA:1825:A:H5''	25:BA:1826:G:P	2.48	0.54
25:BA:1951:U:H2'	25:BA:1953:A:O5'	2.07	0.54
25:BA:2047:U:O2'	25:BA:2048:G:C5'	2.56	0.54
25:BA:2265:U:C2	25:BA:2266:A:N7	2.75	0.54
25:BA:860:U:C1'	25:BA:2267:A:H5''	2.38	0.54
25:BA:2282:G:H4'	25:BA:2283:C:OP2	2.06	0.54
25:BA:2289:G:H5'	25:BA:2384:G:C1'	2.25	0.54
25:BA:2324:C:O2	25:BA:2385:C:C5	2.55	0.54
25:BA:2426:A:C3'	25:BA:2427:C:H5'	2.38	0.54
25:BA:2488:A:H2'	25:BA:2489:G:C8	2.43	0.54
25:BA:2549:G:H2'	25:BA:2550:G:C5'	2.37	0.54
25:BA:2653:U:H3'	25:BA:2654:A:C8	2.42	0.54
25:BA:2692:C:O2'	25:BA:2693:A:H5'	2.07	0.54
25:BA:2703:C:C5	25:BA:2704:C:C4	2.93	0.54
25:BA:2711:A:OP1	25:BA:2712(A):A:OP2	2.24	0.54
25:BA:2787:C:C5'	29:BE:64:LYS:NZ	2.69	0.54
25:BA:2786:U:H2'	25:BA:2787:C:H5'	1.89	0.54
25:BA:278:A:H2'	25:BA:279:C:C2	2.42	0.54
25:BA:342:G:C2	25:BA:343:C:C2	2.95	0.54
25:BA:354:G:O2'	25:BA:355:G:O4'	2.19	0.54
25:BA:451:C:N4	25:BA:453:C:H3'	2.22	0.54
25:BA:600:G:H22	25:BA:604:G:H4'	1.72	0.54
25:BA:684:G:C6	25:BA:775:G:C5	2.94	0.54
25:BA:738:G:C5	25:BA:739:G:C2	2.95	0.54
25:BA:815:C:O2'	25:BA:816:C:H5'	2.01	0.54
25:BA:881:G:C4	25:BA:882:G:C8	2.94	0.54
25:BA:904:C:C2'	25:BA:905:U:H5'	2.36	0.54
25:BA:974:G:HO2'	25:BA:1186:G:C1'	2.18	0.54
26:BB:43:C:N4	26:BB:45:A:N6	2.55	0.54
28:BD:182:LEU:O	28:BD:268:ARG:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:244:ARG:CA	28:BD:252:TRP:CD1	2.90	0.54
29:BE:118:LYS:O	29:BE:119:ARG:C	2.45	0.54
29:BE:5:LEU:CD1	29:BE:197:ILE:HA	2.26	0.54
25:BA:2305:A:O2'	31:BG:136:ARG:CA	2.56	0.54
31:BG:49:ASP:O	31:BG:50:ALA:C	2.44	0.54
31:BG:4:ASP:HB3	31:BG:104:GLU:CG	2.37	0.54
31:BG:55:LYS:CG	31:BG:148:MET:SD	2.95	0.54
35:BM:23:LEU:HD11	35:BM:62:VAL:CG1	2.37	0.54
35:BM:23:LEU:CG	35:BM:61:ARG:O	2.55	0.54
35:BM:89:LYS:CE	35:BM:90:MET:H	2.20	0.54
37:BO:13:ASN:HB2	37:BO:17:LYS:HD2	1.88	0.54
37:BO:46:LYS:NZ	37:BO:50:ARG:HE	1.93	0.54
38:BP:111:GLU:OE1	38:BP:112:GLU:OE2	2.24	0.54
38:BP:11:LYS:NZ	38:BP:16:ARG:HH21	2.05	0.54
39:BQ:13:HIS:CE1	39:BQ:15:SER:H	2.25	0.54
39:BQ:36:THR:HB	39:BQ:40:LYS:CD	2.37	0.54
39:BQ:61:HIS:ND1	39:BQ:64:ARG:CZ	2.70	0.54
40:BR:9:ARG:HD3	40:BR:12:PHE:CE2	2.42	0.54
41:BS:39:ARG:CG	41:BS:42:ILE:HD12	2.36	0.54
25:BA:1009:A:C1'	42:BT:59:ARG:CZ	2.85	0.54
43:BU:27:ALA:CB	43:BU:35:LEU:CD1	2.84	0.54
46:BX:52:SER:O	46:BX:53:PRO:C	2.44	0.54
47:BY:146:ILE:C	47:BY:148:ASP:N	2.60	0.54
48:BZ:37:LEU:N	48:BZ:37:LEU:HD23	2.22	0.54
26:BB:11:C:OP1	48:BZ:72:ARG:NH1	2.40	0.54
33:BK:77:LEU:HD11	33:BK:140:LEU:HD13	1.88	0.54
33:BK:125:GLU:CG	33:BK:143:SER:HB2	2.36	0.54
33:BK:88:ILE:HG22	33:BK:89:TYR:N	2.21	0.54
25:BA:846:C:H1'	25:BA:847:U:N3	2.22	0.54
4:A1:14:A:C2'	4:A1:14:A:N3	2.71	0.54
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.42	0.54
1:AA:1094:G:C2'	1:AA:1108:G:H22	2.15	0.54
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.43	0.54
1:AA:1219:U:P	17:AQ:19:ARG:HH12	2.30	0.54
1:AA:1343:G:O3'	12:AL:122:ALA:HB3	2.06	0.54
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.70	0.54
1:AA:1390:U:C4	1:AA:1391:U:O4	2.60	0.54
1:AA:1392:G:O2'	1:AA:1393:U:O4'	2.24	0.54
1:AA:1431:C:N4	1:AA:1470:G:C6	2.75	0.54
1:AA:20:U:H2'	1:AA:21:G:C5'	2.37	0.54
1:AA:594:G:N7	1:AA:595:G:C2	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:687:A:HO2'	1:AA:688:G:P	2.30	0.54
1:AA:730:G:C8	1:AA:731:G:C1'	2.91	0.54
2:AC:10:G:N2	2:AC:11:A:C4	2.76	0.54
2:AC:56:C:O2	31:BG:82:LEU:HB3	2.07	0.54
3:AD:75:C:C6	3:AD:76:A:O3'	2.60	0.54
5:AE:157:ARG:C	5:AE:158:LEU:HD23	2.27	0.54
5:AE:16:HIS:H	5:AE:210:SER:HB2	1.73	0.54
5:AE:178:ARG:CZ	5:AE:196:LEU:O	2.55	0.54
5:AE:221:LEU:HD13	5:AE:221:LEU:O	2.07	0.54
5:AE:74:LYS:CD	5:AE:76:GLN:H	2.21	0.54
6:AF:153:VAL:HG22	6:AF:166:GLU:O	2.08	0.54
7:AG:170:VAL:CG1	7:AG:171:GLY:N	2.65	0.54
7:AG:144:ASP:H	7:AG:185:PHE:HB3	1.73	0.54
7:AG:20:TYR:HE1	7:AG:21:LEU:CD2	2.20	0.54
8:AH:80:ILE:HG22	11:AK:104:ARG:HH22	1.71	0.54
9:AI:81:ILE:O	9:AI:83:ASP:N	2.40	0.54
10:AJ:6:ARG:N	10:AJ:6:ARG:NH1	2.55	0.54
14:AN:84:VAL:HG13	14:AN:109:VAL:O	2.07	0.54
16:AP:12:ASN:O	16:AP:44:ARG:NE	2.31	0.54
22:AV:13:ASP:O	22:AV:17:GLU:HG3	2.07	0.54
49:B1:23:LYS:NZ	49:B1:23:LYS:CB	2.71	0.54
49:B1:25:ARG:CB	49:B1:25:ARG:CZ	2.85	0.54
49:B1:63:ARG:O	49:B1:66:ASN:HB3	2.06	0.54
53:B5:16:CYS:CB	53:B5:49:HIS:CA	2.75	0.54
54:B6:42:LEU:C	54:B6:44:PRO:CD	2.73	0.54
55:B7:34:TRP:C	55:B7:36:LYS:H	2.06	0.54
55:B7:26:LYS:HE3	55:B7:45:GLY:H	1.73	0.54
55:B7:8:LYS:N	55:B7:8:LYS:HD3	2.20	0.54
25:BA:1155:A:C2	25:BA:1157:G:H1'	2.42	0.54
25:BA:1174:A:N3	25:BA:1174:A:C2'	2.69	0.54
25:BA:1204:A:H2	30:BF:188:ARG:C	2.01	0.54
25:BA:1212:G:C8	25:BA:1212:G:C3'	2.90	0.54
25:BA:1213:A:C2	25:BA:1214:A:C8	2.96	0.54
25:BA:1283:G:H22	25:BA:1285:G:H3'	1.73	0.54
25:BA:1340:U:H2'	25:BA:1341:U:OP1	2.07	0.54
25:BA:1429:G:H3'	25:BA:1430:C:H6	1.72	0.54
25:BA:1669:A:OP2	25:BA:1670:C:H5	1.89	0.54
25:BA:1703:G:C2	25:BA:1704:G:C4	2.95	0.54
25:BA:1907:G:H2'	25:BA:1908:C:C6	2.40	0.54
25:BA:1906:G:C4	25:BA:1907:G:N7	2.75	0.54
25:BA:1925:C:O2	25:BA:1929:G:C6	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1936:A:N3	25:BA:1940:U:O2	2.39	0.54
25:BA:2261:C:O2'	25:BA:2262:U:H5'	2.07	0.54
25:BA:2345:G:N2	25:BA:2381:C:H2'	2.22	0.54
25:BA:2437:U:H2'	25:BA:2438:U:C5	2.41	0.54
25:BA:945:A:N7	25:BA:2448:A:N6	2.56	0.54
25:BA:2710:C:C2'	25:BA:2711:A:O5'	2.55	0.54
25:BA:2713:A:C3'	25:BA:2714:G:H5'	2.38	0.54
25:BA:2745:C:C2	25:BA:2746:U:C5	2.95	0.54
25:BA:2787:C:H5''	29:BE:64:LYS:NZ	2.22	0.54
25:BA:282:A:C6	25:BA:283:A:H4'	2.42	0.54
25:BA:294:A:C6	25:BA:346:A:N1	2.75	0.54
25:BA:312:G:OP2	25:BA:332:A:H5'	2.07	0.54
25:BA:422:A:N1	25:BA:423:A:N3	2.54	0.54
25:BA:596:G:C4	25:BA:662:G:N2	2.76	0.54
25:BA:691:C:C2	25:BA:692:C:C5	2.95	0.54
25:BA:728:G:N3	25:BA:763:G:OP2	2.40	0.54
25:BA:811:U:O4	37:BO:23:PRO:N	2.39	0.54
25:BA:90:U:H6	25:BA:90:U:H3'	1.72	0.54
26:BB:44:G:C2	26:BB:48:A:N3	2.75	0.54
27:BC:214:VAL:CG2	27:BC:224:ILE:HG21	2.37	0.54
27:BC:87:GLU:HG2	27:BC:94:VAL:HG21	1.89	0.54
28:BD:24:ILE:CG2	28:BD:25:THR:H	2.06	0.54
28:BD:76:PRO:HB3	28:BD:118:VAL:HG22	1.89	0.54
29:BE:102:VAL:HG21	29:BE:198:VAL:HG13	1.90	0.54
29:BE:25:VAL:HG23	29:BE:182:LEU:HB3	1.88	0.54
31:BG:134:GLY:O	31:BG:135:LEU:C	2.45	0.54
31:BG:53:LEU:HD23	31:BG:71:THR:H	1.73	0.54
32:BH:111:HIS:O	32:BH:113:VAL:HG23	2.07	0.54
25:BA:5:A:O2'	35:BM:134:ARG:CZ	2.55	0.54
35:BM:69:GLN:HE22	35:BM:87:LEU:CD2	2.20	0.54
36:BN:18:LYS:CA	36:BN:45:GLU:HG3	2.35	0.54
37:BO:114:ILE:HG12	37:BO:130:PHE:CA	2.36	0.54
37:BO:10:PRO:O	37:BO:11:GLY:O	2.23	0.54
38:BP:34:LEU:CD1	38:BP:67:ARG:NH2	2.70	0.54
38:BP:77:LYS:HE2	38:BP:87:LYS:NZ	2.22	0.54
39:BQ:38:VAL:O	39:BQ:41:ALA:HB3	2.08	0.54
39:BQ:96:ARG:HG2	39:BQ:98:LEU:CD1	2.33	0.54
40:BR:38:GLN:NE2	40:BR:47:THR:CG2	2.70	0.54
40:BR:9:ARG:NH1	40:BR:9:ARG:CA	2.53	0.54
41:BS:31:SER:C	41:BS:32:TYR:CD2	2.81	0.54
41:BS:41:ARG:O	41:BS:43:GLN:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:4:TYR:HE2	42:BT:101:ARG:HA	1.72	0.54
42:BT:59:ARG:HB3	42:BT:59:ARG:NH1	2.21	0.54
43:BU:11:GLN:HE22	43:BU:24:LYS:HE2	1.70	0.54
43:BU:75:PHE:CE1	43:BU:89:GLN:HG3	2.42	0.54
45:BW:50:LYS:CE	45:BW:87:GLN:HB2	2.37	0.54
46:BX:14:LEU:CB	46:BX:20:TYR:HA	2.22	0.54
46:BX:33:LYS:O	46:BX:34:LYS:C	2.45	0.54
25:BA:484:C:OP1	46:BX:48:ALA:CB	2.53	0.54
46:BX:97:ARG:NH1	46:BX:97:ARG:HG2	2.20	0.54
48:BZ:32:ARG:HH11	48:BZ:32:ARG:CB	2.20	0.54
48:BZ:27:GLU:OE2	48:BZ:69:PHE:HB2	2.07	0.54
33:BK:114:LEU:HA	33:BK:130:TYR:CB	2.37	0.54
33:BK:146:ALA:C	33:BK:148:GLU:H	2.00	0.54
25:BA:1077:A:H3'	25:BA:1078:U:C6	2.43	0.54
25:BA:1086:A:N3	25:BA:1086:A:H2'	2.21	0.54
1:AA:723:U:O2	1:AA:723:U:H2'	2.06	0.54
1:AA:1251:A:C6	1:AA:1252:A:N6	2.76	0.54
1:AA:1397:C:C2'	1:AA:1397:C:O2	2.56	0.54
1:AA:1405:G:C1'	1:AA:1519:A:H4'	2.37	0.54
1:AA:1506:U:H3'	1:AA:1507:A:C5'	2.35	0.54
1:AA:151:A:N6	1:AA:152:A:C2	2.75	0.54
1:AA:468:A:C1'	19:AS:82:GLN:HG2	2.35	0.54
1:AA:607:A:C2'	1:AA:608:A:H5'	2.37	0.54
1:AA:719:C:H3'	1:AA:720:C:H5	1.72	0.54
1:AA:784:C:C2'	1:AA:785:G:O5'	2.56	0.54
3:AD:76:A:N7	25:BA:2432:A:C4	2.75	0.54
5:AE:125:PRO:O	5:AE:126:GLU:C	2.46	0.54
7:AG:10:ARG:C	7:AG:10:ARG:HD3	2.27	0.54
7:AG:122:ARG:C	7:AG:124:GLY:H	2.10	0.54
7:AG:56:VAL:HG12	7:AG:202:LEU:HD21	1.88	0.54
10:AJ:22:LEU:CD2	10:AJ:63:LYS:HZ3	2.21	0.54
10:AJ:29:LYS:NZ	10:AJ:102:ARG:HB2	2.22	0.54
10:AJ:54:THR:OG1	10:AJ:56:GLN:CG	2.55	0.54
10:AJ:63:LYS:CA	10:AJ:63:LYS:HE2	2.38	0.54
10:AJ:75:VAL:CG1	10:AJ:76:ARG:N	2.70	0.54
13:AM:20:ALA:O	13:AM:24:VAL:HG23	2.07	0.54
13:AM:63:PHE:CZ	17:AQ:45:ARG:HA	2.42	0.54
13:AM:76:ASN:N	13:AM:76:ASN:ND2	2.54	0.54
15:AO:76:ASN:C	15:AO:77:LEU:HG	2.28	0.54
16:AP:104:ARG:HG2	16:AP:105:THR:N	2.21	0.54
16:AP:90:LEU:O	16:AP:93:ARG:CB	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:7:GLU:HG3	18:AR:10:LYS:HE3	1.89	0.54
23:AW:17:ARG:O	23:AW:20:LEU:HB2	2.06	0.54
49:B1:59:LEU:CD1	49:B1:63:ARG:HG3	2.37	0.54
51:B3:10:VAL:HG21	51:B3:60:GLN:HE22	1.72	0.54
52:B4:33:CYS:CB	52:B4:36:CYS:HB2	2.37	0.54
53:B5:9:LEU:CD2	53:B5:27:LYS:CG	2.85	0.54
54:B6:8:ASN:C	54:B6:8:ASN:HD22	2.11	0.54
25:BA:2360:A:H5'	55:B7:49:VAL:HG21	1.89	0.54
25:BA:1112:G:H2'	25:BA:1113:U:H5	1.72	0.54
25:BA:1147:C:H2'	25:BA:1148:A:C5'	2.31	0.54
25:BA:1287:A:C2	25:BA:1288:U:O2	2.60	0.54
25:BA:133:C:H2'	25:BA:134:C:C5	2.42	0.54
25:BA:1386:C:O2'	25:BA:1387:C:C5'	2.55	0.54
25:BA:1422:G:C2	25:BA:1423:G:C5	2.96	0.54
25:BA:1422:G:N1	25:BA:1423:G:C5	2.76	0.54
25:BA:1519:G:OP1	25:BA:1520:U:P	2.65	0.54
25:BA:1790:C:OP2	28:BD:221:VAL:O	2.25	0.54
25:BA:1792:G:OP1	28:BD:206:LEU:HD21	2.07	0.54
25:BA:1843:C:H4'	28:BD:255:LYS:CE	2.33	0.54
25:BA:1853:A:O2'	25:BA:1854:A:H5'	2.08	0.54
25:BA:1939:U:H1'	25:BA:2592:G:O4'	2.07	0.54
25:BA:2117:A:O3'	25:BA:2147:G:N2	2.41	0.54
25:BA:221:A:C2'	25:BA:222:A:OP2	2.55	0.54
25:BA:2236:C:C6	25:BA:2236:C:C4'	2.89	0.54
25:BA:2246:G:N3	25:BA:2247:A:N7	2.55	0.54
25:BA:2254:C:O2'	25:BA:2255:G:H5'	2.06	0.54
25:BA:2360:A:N7	25:BA:2361:A:H8	2.04	0.54
25:BA:945:A:N9	25:BA:2448:A:N1	2.55	0.54
25:BA:2460:U:H5''	25:BA:2460:U:C6	2.43	0.54
25:BA:200:U:O4	25:BA:248:G:C6	2.59	0.54
25:BA:2516:G:C4	25:BA:2569:G:N2	2.75	0.54
25:BA:2530:A:H2'	25:BA:2531:A:H5''	1.90	0.54
25:BA:2595:G:H1'	25:BA:2599:G:N2	2.22	0.54
25:BA:270(G):C:H2'	25:BA:270(H):C:C5	2.42	0.54
25:BA:273(B):C:O5'	25:BA:273(B):C:H6	1.90	0.54
25:BA:2748:A:O2'	32:BH:66:GLY:CA	2.53	0.54
25:BA:280:C:H3'	25:BA:282:A:P	2.48	0.54
25:BA:2848:G:O5'	41:BS:99:LEU:HD11	2.07	0.54
25:BA:278:A:C8	25:BA:359:A:H2	2.25	0.54
25:BA:408:G:C2'	25:BA:409:C:H5'	2.37	0.54
25:BA:573:G:C2'	25:BA:574:C:H3'	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:641:C:H2'	25:BA:642:G:O4'	2.08	0.54
25:BA:605:C:O4'	25:BA:658:C:H4'	2.08	0.54
25:BA:697:C:C2'	25:BA:698:C:C5'	2.85	0.54
25:BA:805:G:O6	25:BA:2067:G:O3'	2.25	0.54
25:BA:853:G:O2'	25:BA:854:G:C5'	2.55	0.54
25:BA:864:G:H2'	25:BA:865:C:H6	1.69	0.54
26:BB:105:G:H4'	47:BY:32:HIS:CE1	2.43	0.54
26:BB:32:C:O2	26:BB:32:C:H2'	2.08	0.54
26:BB:41:U:C5'	26:BB:42:C:H5'	2.37	0.54
27:BC:110:PHE:CE1	27:BC:113:VAL:HG22	2.42	0.54
28:BD:133:LEU:C	28:BD:136:ILE:HG13	2.27	0.54
28:BD:138:VAL:HA	28:BD:165:ILE:HG21	1.90	0.54
28:BD:208:LYS:HE2	28:BD:211:ARG:HG2	1.88	0.54
25:BA:784:A:O5'	28:BD:227:ASN:OD1	2.25	0.54
30:BF:45:ARG:HG3	30:BF:46:ARG:N	2.22	0.54
30:BF:5:ALA:O	30:BF:7:TYR:CD1	2.61	0.54
31:BG:127:GLY:O	31:BG:128:ARG:CB	2.55	0.54
31:BG:39:ILE:HG13	31:BG:157:ILE:HG13	1.89	0.54
32:BH:117:PRO:HA	32:BH:121:ILE:HD13	1.90	0.54
32:BH:162:ILE:C	32:BH:163:TYR:HD1	2.11	0.54
33:BK:2:LYS:HZ2	33:BK:39:ALA:CB	2.18	0.54
33:BK:2:LYS:C	33:BK:38:LEU:HD22	2.24	0.54
36:BN:24:VAL:HG22	36:BN:30:ALA:HB1	1.88	0.54
36:BN:62:VAL:O	36:BN:82:ASN:OD1	2.25	0.54
38:BP:133:ARG:O	38:BP:135:ASP:OD1	2.26	0.54
39:BQ:61:HIS:CG	39:BQ:64:ARG:NE	2.75	0.54
40:BR:99:LYS:C	40:BR:102:ALA:HB3	2.26	0.54
40:BR:106:ARG:HE	40:BR:110:LEU:HD22	1.68	0.54
40:BR:63:THR:C	40:BR:66:ALA:HB3	2.25	0.54
41:BS:6:LEU:O	41:BS:9:LEU:HB2	2.07	0.54
25:BA:29:U:C4'	42:BT:11:ARG:NH2	2.69	0.54
42:BT:31:SER:O	42:BT:32:PHE:C	2.42	0.54
42:BT:98:LEU:O	42:BT:99:ALA:C	2.43	0.54
25:BA:1161:C:O2'	43:BU:22:VAL:CG1	2.55	0.54
43:BU:62:LEU:CD1	43:BU:96:ILE:HB	2.24	0.54
44:BV:11:ARG:CG	44:BV:98:LYS:HD2	2.38	0.54
45:BW:8:ILE:N	45:BW:9:LEU:HD12	2.21	0.54
46:BX:53:PRO:O	46:BX:55:TYR:C	2.45	0.54
34:BL:128:ALA:HB1	34:BL:138:VAL:CG1	2.36	0.54
1:AA:1122:U:O2'	1:AA:1123:A:H5'	2.08	0.54
2:AC:28:C:C2	2:AC:29:G:C8	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BB:21:G:H2'	26:BB:22:U:O4'	2.07	0.54
6:AF:160:ALA:C	6:AF:162:GLN:H	2.10	0.54
1:AA:25:C:H4'	1:AA:524:G:N3	2.22	0.54
4:A1:14:A:C3'	4:A1:14:A:N3	2.69	0.54
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.42	0.54
1:AA:1280:A:H5'	13:AM:40:LEU:HD22	1.89	0.54
1:AA:1312:G:C2'	1:AA:1313:U:H5'	2.37	0.54
1:AA:1413:A:C2	1:AA:1414:U:C2	2.95	0.54
1:AA:1431:C:H5''	41:BS:110:ILE:HD13	1.88	0.54
1:AA:1437:C:H2'	1:AA:1438:G:C8	2.43	0.54
1:AA:1454:G:H2'	1:AA:1455:G:C8	2.34	0.54
1:AA:154:C:O2'	1:AA:155:C:H5'	2.07	0.54
1:AA:177:C:C2	1:AA:178:C:C5	2.96	0.54
1:AA:49:U:O4	1:AA:362:G:N2	2.39	0.54
1:AA:483:C:C6	1:AA:483:C:C3'	2.91	0.54
1:AA:440:A:C6	1:AA:494:U:H5	2.17	0.54
1:AA:665:A:N7	1:AA:733:A:C2	2.75	0.54
1:AA:751:U:C2'	1:AA:752:G:O4'	2.54	0.54
2:AC:40:C:H2'	2:AC:41:C:H5'	1.86	0.54
3:AD:35:A:C6	4:A1:14:A:N1	2.76	0.54
3:AD:76:A:C2	25:BA:2431:U:O2'	2.58	0.54
5:AE:115:LEU:HD12	5:AE:115:LEU:O	2.08	0.54
5:AE:27:LYS:HB3	5:AE:194:PRO:HD2	1.89	0.54
5:AE:234:PRO:HB2	5:AE:238:LEU:HD21	1.89	0.54
5:AE:46:LYS:O	5:AE:49:GLU:HB2	2.07	0.54
6:AF:126:ARG:HB3	6:AF:128:PHE:CZ	2.40	0.54
6:AF:130:VAL:O	6:AF:133:ALA:HB3	2.08	0.54
7:AG:38:TYR:OH	7:AG:45:GLN:NE2	2.40	0.54
7:AG:58:LEU:C	7:AG:58:LEU:HD13	2.28	0.54
8:AH:45:PHE:CD1	8:AH:45:PHE:O	2.60	0.54
9:AI:6:VAL:CG2	9:AI:8:ILE:HG12	2.36	0.54
14:AN:121:PRO:HD2	14:AN:126:ARG:HE	1.72	0.54
15:AO:110:VAL:CG2	15:AO:113:ARG:HG3	2.38	0.54
15:AO:41:ARG:HH22	15:AO:57:LYS:CE	2.18	0.54
15:AO:85:ILE:HD12	15:AO:99:HIS:C	2.27	0.54
16:AP:48:LEU:HD22	16:AP:53:VAL:HG23	1.88	0.54
16:AP:92:HIS:CA	16:AP:98:VAL:HG21	2.37	0.54
17:AQ:16:PHE:O	17:AQ:17:LYS:C	2.45	0.54
19:AS:58:TYR:O	19:AS:61:SER:OG	2.24	0.54
25:BA:125:G:H21	54:B6:13:ALA:HB3	1.72	0.54
37:BO:49:ARG:NH2	55:B7:55:ALA:CB	2.63	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:814:C:C3'	25:BA:1224:G:H22	2.21	0.54
25:BA:1325:G:H22	44:BV:86:LEU:HD21	1.71	0.54
25:BA:1355:G:H2'	25:BA:1356:G:H8	1.72	0.54
25:BA:1359:A:N1	25:BA:1360:A:C5	2.76	0.54
25:BA:1488:G:O6	25:BA:1489:U:C2	2.60	0.54
25:BA:1591:G:C4	25:BA:1592:C:C5	2.96	0.54
25:BA:1664:A:C2	25:BA:1665:A:N6	2.75	0.54
25:BA:1668:A:H1'	25:BA:1669:A:N1	2.23	0.54
25:BA:1266:G:H2'	25:BA:2012:G:O6	2.08	0.54
25:BA:2051:A:O3'	29:BE:141:ILE:HD11	2.06	0.54
25:BA:19:C:N3	25:BA:20:C:C5	2.76	0.54
25:BA:185:U:N3	25:BA:212:G:N2	2.55	0.54
25:BA:2174:C:O2'	27:BC:218:MET:HG3	2.07	0.54
25:BA:2209:C:HO2'	25:BA:2210:G:H3'	1.72	0.54
25:BA:2413:G:H2'	25:BA:2414:G:O4'	2.06	0.54
3:AD:76:A:OP1	25:BA:2422:A:C5	2.60	0.54
25:BA:2436:G:O2'	25:BA:2437:U:OP1	2.24	0.54
25:BA:246:C:O2'	25:BA:385:C:C4'	2.56	0.54
25:BA:2570:G:C2	25:BA:2571:C:C2	2.96	0.54
25:BA:2579:C:C6	25:BA:2579:C:C5'	2.89	0.54
25:BA:2593:U:O4	28:BD:239:ARG:CZ	2.54	0.54
25:BA:2644:G:O5'	25:BA:2644:G:H8	1.90	0.54
25:BA:2695:C:C2'	25:BA:2696:U:H6	2.19	0.54
25:BA:2876:G:C2	25:BA:2877:G:C8	2.95	0.54
25:BA:402:A:N1	25:BA:403:U:C6	2.75	0.54
25:BA:446:G:OP2	25:BA:446:G:O4'	2.26	0.54
25:BA:528:A:C8	25:BA:528:A:C3'	2.90	0.54
25:BA:556:G:H2'	25:BA:557:U:C6	2.35	0.54
25:BA:636:G:H22	37:BO:75:ILE:HD13	1.64	0.54
25:BA:674:G:H1	25:BA:804:A:H2'	1.73	0.54
25:BA:793:A:H2'	25:BA:794:G:OP2	2.08	0.54
25:BA:797:C:OP2	30:BF:62:ARG:HB3	2.07	0.54
25:BA:807:U:H2'	25:BA:808:G:C8	2.41	0.54
26:BB:78:A:C2	26:BB:99:A:C6	2.95	0.54
27:BC:19:ILE:O	27:BC:224:ILE:HA	2.07	0.54
25:BA:730:C:P	28:BD:211:ARG:HH22	2.31	0.54
29:BE:104:VAL:HG22	29:BE:198:VAL:CA	2.33	0.54
29:BE:173:VAL:HG22	29:BE:174:ASP:H	1.72	0.54
30:BF:119:ARG:NH2	30:BF:120:GLU:OE1	2.40	0.54
30:BF:45:ARG:HG3	30:BF:46:ARG:H	1.72	0.54
31:BG:153:ARG:O	31:BG:155:MET:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:36:LYS:HD2	31:BG:37:VAL:H	1.72	0.54
35:BM:2:LYS:N	42:BT:61:TRP:CH2	2.75	0.54
35:BM:94:HIS:HB3	35:BM:97:ARG:HB2	1.89	0.54
37:BO:126:VAL:CB	37:BO:146:VAL:H	2.20	0.54
37:BO:79:ARG:NH2	37:BO:83:VAL:CG1	2.71	0.54
38:BP:68:ILE:HB	38:BP:103:MET:CE	2.37	0.54
38:BP:90:VAL:O	38:BP:90:VAL:HG23	2.07	0.54
39:BQ:36:THR:O	39:BQ:111:LEU:HB3	2.06	0.54
39:BQ:87:TYR:O	39:BQ:89:ASP:OD1	2.26	0.54
40:BR:103:GLU:HA	40:BR:106:ARG:HB2	1.89	0.54
40:BR:107:GLU:HA	40:BR:107:GLU:OE1	2.08	0.54
41:BS:23:ARG:NH1	41:BS:88:ILE:O	2.41	0.54
41:BS:31:SER:OG	41:BS:49:VAL:HG22	2.06	0.54
36:BN:122:LEU:HA	41:BS:71:GLY:N	2.23	0.54
36:BN:78:ARG:HA	41:BS:73:GLU:O	2.06	0.54
41:BS:27:THR:OG1	41:BS:95:ARG:O	2.26	0.54
42:BT:106:PHE:HA	42:BT:109:LEU:HD12	1.88	0.54
42:BT:30:LYS:O	42:BT:32:PHE:N	2.39	0.54
25:BA:1252:G:O2'	42:BT:33:ARG:NE	2.39	0.54
42:BT:8:VAL:O	42:BT:9:VAL:C	2.45	0.54
43:BU:22:VAL:CG1	43:BU:24:LYS:NZ	2.70	0.54
44:BV:41:LYS:NZ	44:BV:41:LYS:CB	2.69	0.54
44:BV:8:ARG:C	44:BV:102:HIS:CD2	2.78	0.54
45:BW:54:VAL:HG22	45:BW:81:VAL:CB	2.38	0.54
45:BW:96:ILE:OXT	45:BW:96:ILE:HG13	2.07	0.54
46:BX:96:ILE:H	46:BX:96:ILE:CD1	2.20	0.54
47:BY:10:ARG:HH11	47:BY:36:LYS:HD2	1.72	0.54
48:BZ:19:LYS:CG	48:BZ:20:ARG:H	2.08	0.54
25:BA:2331:G:H4'	48:BZ:43:THR:H	1.68	0.54
48:BZ:46:LYS:HG3	48:BZ:78:TYR:CZ	2.41	0.54
48:BZ:51:VAL:CG2	48:BZ:81:VAL:HG23	2.37	0.54
33:BK:131:LYS:HA	33:BK:137:PRO:HA	1.90	0.54
33:BK:73:GLU:HG3	33:BK:138:ILE:HG13	1.88	0.54
33:BK:79:ILE:N	33:BK:79:ILE:CD1	2.69	0.54
34:BL:106:GLU:HA	34:BL:109:LYS:HG3	1.89	0.54
34:BL:89:HIS:C	34:BL:90:LYS:HG2	2.27	0.54
6:AF:157:ILE:O	6:AF:159:GLY:N	2.40	0.54
1:AA:1003:G:N2	1:AA:1038:C:H1'	2.23	0.54
25:BA:2338:G:C6	25:BA:2339:G:N7	2.76	0.54
1:AA:615:C:H2'	1:AA:616:G:O4'	2.08	0.54
1:AA:1163:C:H2'	1:AA:1164:G:C5'	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1357:A:O5'	1:AA:1357:A:H8	1.91	0.54
1:AA:1452:C:H5'	1:AA:1453:G:N3	2.22	0.54
1:AA:262:A:N1	1:AA:263:A:C6	2.75	0.54
1:AA:246:A:N1	1:AA:279:A:C5	2.76	0.54
1:AA:301:G:N2	1:AA:302:G:N9	2.56	0.54
1:AA:424:G:O2'	1:AA:425:G:H5'	2.07	0.54
1:AA:427:U:C2	1:AA:428:G:N7	2.76	0.54
1:AA:569:C:O4'	1:AA:574:A:C2	2.60	0.54
1:AA:578:C:O2	1:AA:578:C:H2'	2.08	0.54
1:AA:652:U:C1'	1:AA:653:A:C2	2.85	0.54
1:AA:659:U:O2'	1:AA:660:G:C5'	2.55	0.54
1:AA:682:G:C2	1:AA:683:G:C8	2.95	0.54
3:AD:21:A:H2'	3:AD:22:G:O4'	2.08	0.54
3:AD:35:A:H3'	3:AD:36:A:H8	1.73	0.54
3:AD:4:G:O4'	25:BA:1851:U:OP1	2.26	0.54
5:AE:212:GLN:O	5:AE:216:SER:HB3	2.07	0.54
6:AF:107:GLN:CD	6:AF:107:GLN:H	2.10	0.54
6:AF:14:ILE:HG22	6:AF:15:THR:HG22	1.89	0.54
7:AG:107:ARG:HB3	7:AG:174:LEU:HD13	1.89	0.54
7:AG:25:ARG:HG2	7:AG:28:SER:O	2.07	0.54
7:AG:53:ASP:O	7:AG:56:VAL:HB	2.08	0.54
7:AG:56:VAL:HG13	7:AG:202:LEU:HD21	1.86	0.54
7:AG:83:SER:OG	7:AG:89:THR:HG21	2.06	0.54
8:AH:127:ASN:O	8:AH:128:PRO:O	2.26	0.54
8:AH:43:LEU:HD23	8:AH:44:GLY:N	2.22	0.54
9:AI:19:LEU:O	9:AI:23:LYS:HB2	2.07	0.54
9:AI:50:TYR:CE2	9:AI:52:ILE:CD1	2.90	0.54
10:AJ:42:ILE:HG22	10:AJ:120:ILE:HD12	1.89	0.54
10:AJ:78:ARG:HE	10:AJ:80:VAL:HG22	1.72	0.54
11:AK:114:THR:HG1	11:AK:129:VAL:HG11	1.70	0.54
1:AA:1151:A:OP1	13:AM:41:PRO:CA	2.56	0.54
14:AN:15:ALA:HA	14:AN:77:MET:CA	2.35	0.54
15:AO:33:ARG:HG2	15:AO:60:LEU:CG	2.36	0.54
16:AP:83:ASP:O	16:AP:84:ILE:O	2.26	0.54
21:AU:21:LYS:NZ	21:AU:23:LYS:CB	2.71	0.54
21:AU:21:LYS:NZ	21:AU:23:LYS:H	2.05	0.54
22:AV:22:LEU:C	22:AV:24:ALA:N	2.61	0.54
23:AW:61:SER:O	23:AW:65:LYS:HG2	2.08	0.54
49:B1:59:LEU:HD11	49:B1:63:ARG:HG3	1.89	0.54
50:B2:38:GLU:CD	50:B2:38:GLU:H	2.09	0.54
51:B3:29:PRO:C	51:B3:30:GLU:CG	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B3:61:ARG:HH11	51:B3:61:ARG:CG	2.10	0.54
52:B4:13:LYS:HD3	52:B4:13:LYS:H	1.71	0.54
54:B6:43:THR:C	54:B6:46:VAL:HB	2.26	0.54
55:B7:1:MET:H3	55:B7:2:PRO:HD2	1.72	0.54
55:B7:51:ALA:O	55:B7:53:PRO:HG2	2.08	0.54
25:BA:1006:C:H5''	35:BM:32:THR:CG2	2.37	0.54
25:BA:1024:G:O6	25:BA:1134:G:C1'	2.50	0.54
25:BA:1238:G:N2	25:BA:1239:G:C1'	2.71	0.54
25:BA:1260:G:C3'	25:BA:1261:C:H5'	2.36	0.54
25:BA:1268:A:N3	25:BA:1269:A:C8	2.76	0.54
25:BA:1397:U:O2'	25:BA:1398:C:OP1	2.20	0.54
25:BA:1508:A:C5'	25:BA:1510:A:C6	2.90	0.54
25:BA:1672:C:H6	25:BA:1673:U:C5'	2.21	0.54
25:BA:1683:C:N3	25:BA:1684:C:C5	2.75	0.54
25:BA:1804:C:N4	25:BA:1814:G:H21	2.01	0.54
25:BA:1838:C:C5	25:BA:1899:G:C6	2.96	0.54
25:BA:1943:U:C5	25:BA:1945:G:O4'	2.61	0.54
25:BA:1957:C:N3	25:BA:1958:C:C5	2.75	0.54
25:BA:2075:U:O2'	25:BA:2076:U:C5'	2.51	0.54
25:BA:2227:A:C6	25:BA:2228:G:C8	2.95	0.54
25:BA:224:G:C6	25:BA:232:G:N2	2.74	0.54
25:BA:2253:G:C4	25:BA:2254:C:C5	2.95	0.54
25:BA:218:A:C6	25:BA:235:U:H4'	2.43	0.54
25:BA:2411:A:H2'	25:BA:2412:A:C8	2.42	0.54
25:BA:2478:A:H2'	25:BA:2479:G:C5'	2.36	0.54
25:BA:2604:U:H2'	25:BA:2605:U:H6	1.72	0.54
25:BA:270(B):A:C1'	25:BA:270(C):C:C5	2.89	0.54
25:BA:2712:U:O3'	25:BA:2714:G:OP2	2.25	0.54
25:BA:2638:G:N2	25:BA:2776:A:C8	2.76	0.54
25:BA:2801:A:H3'	25:BA:2801:A:H8	1.73	0.54
25:BA:2811:G:O2'	25:BA:2812:G:H5'	2.07	0.54
25:BA:286:C:H2'	25:BA:287:C:C6	2.38	0.54
25:BA:396:G:H2'	25:BA:397:G:C8	2.42	0.54
25:BA:451:C:C2	25:BA:453:C:C5	2.96	0.54
25:BA:627:A:H1'	25:BA:637:A:N6	2.21	0.54
25:BA:695:G:C2	25:BA:696:G:C8	2.95	0.54
25:BA:748:G:OP2	44:BV:89:ALA:CB	2.53	0.54
26:BB:78:A:H2'	26:BB:79:C:C5'	2.36	0.54
27:BC:117:PRO:HD3	27:BC:147:PHE:N	2.22	0.54
28:BD:169:GLU:CB	28:BD:174:ILE:HD11	2.35	0.54
28:BD:209:ALA:O	28:BD:213:ARG:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:55:GLY:N	28:BD:219:PRO:CD	2.56	0.54
25:BA:1789:A:O4'	28:BD:222:ARG:NH2	2.40	0.54
29:BE:192:ASN:O	29:BE:193:GLY:C	2.43	0.54
29:BE:5:LEU:CD2	29:BE:196:VAL:HB	2.34	0.54
29:BE:5:LEU:O	29:BE:195:LEU:CD2	2.56	0.54
30:BF:205:ARG:O	30:BF:208:GLY:CA	2.56	0.54
31:BG:16:ARG:HH21	31:BG:16:ARG:CG	2.17	0.54
31:BG:57:ALA:CA	31:BG:68:PRO:CD	2.78	0.54
32:BH:85:LYS:CD	32:BH:142:GLY:HA2	2.37	0.54
35:BM:107:LEU:HD21	35:BM:113:GLY:C	2.27	0.54
35:BM:86:PRO:HB2	35:BM:89:LYS:CE	2.35	0.54
36:BN:117:LEU:HD23	36:BN:118:ALA:N	2.22	0.54
25:BA:2415:G:OP1	37:BO:61:ARG:NH1	2.39	0.54
38:BP:43:THR:HG1	38:BP:46:GLN:H	1.53	0.54
38:BP:8:LYS:NZ	38:BP:11:LYS:HZ3	2.05	0.54
40:BR:38:GLN:NE2	40:BR:40:ILE:HD11	2.23	0.54
40:BR:3:ARG:CG	40:BR:4:LEU:N	2.70	0.54
41:BS:114:LEU:O	41:BS:117:ASP:OD1	2.24	0.54
41:BS:92:GLY:CA	41:BS:93:ARG:HD2	2.36	0.54
44:BV:33:ARG:HH11	44:BV:36:LEU:HB3	1.73	0.54
45:BW:50:LYS:HE2	45:BW:87:GLN:HB2	1.90	0.54
48:BZ:72:ARG:O	48:BZ:73:GLY:C	2.44	0.54
26:BB:12:C:OP2	48:BZ:74:ARG:CD	2.55	0.54
34:BL:22:PRO:O	34:BL:26:ALA:HB3	2.08	0.54
34:BL:27:LEU:HD21	34:BL:57:ILE:CD1	2.34	0.54
26:BB:88:C:C6	26:BB:89:G:H5'	2.42	0.54
47:BY:8:TYR:CD1	47:BY:8:TYR:N	2.58	0.54
1:AA:48:C:OP1	1:AA:115:G:OP1	2.26	0.54
1:AA:1329:A:H5''	16:AP:29:ARG:HG2	1.89	0.54
1:AA:282:A:C5	1:AA:283:C:C5	2.96	0.54
1:AA:106:C:O2	1:AA:379:C:H5''	2.07	0.54
1:AA:575:G:OP1	1:AA:575:G:H4'	2.06	0.54
1:AA:589:C:C2	1:AA:590:C:C5	2.96	0.54
1:AA:607:A:C5	1:AA:608:A:C8	2.96	0.54
1:AA:718:G:H22	21:AU:82:THR:CB	2.20	0.54
1:AA:754:C:O5'	18:AR:72:ARG:NH1	2.40	0.54
1:AA:780:A:C2	1:AA:803:G:N1	2.75	0.54
1:AA:862:C:N1	1:AA:863:U:H5	2.05	0.54
2:AC:14:A:N6	2:AC:15:G:C6	2.75	0.54
5:AE:105:PHE:HD1	5:AE:108:ILE:HB	1.71	0.54
5:AE:72:GLY:HA2	5:AE:165:VAL:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:176:GLU:O	5:AE:180:LEU:HG	2.07	0.54
5:AE:50:GLU:CG	5:AE:200:ILE:O	2.56	0.54
5:AE:16:HIS:CE1	5:AE:210:SER:HA	2.42	0.54
6:AF:179:ARG:HG2	6:AF:206:GLU:CD	2.27	0.54
7:AG:60:GLU:OE1	7:AG:202:LEU:HD13	2.07	0.54
8:AH:80:ILE:O	8:AH:90:VAL:HG22	2.08	0.54
10:AJ:30:ILE:HD12	10:AJ:43:PHE:HB2	1.88	0.54
11:AK:112:LEU:HG	11:AK:113:SER:N	2.20	0.54
11:AK:26:VAL:C	11:AK:58:TYR:HE1	2.11	0.54
19:AS:9:PHE:CZ	19:AS:18:ARG:HG3	2.41	0.54
1:AA:760:G:H2'	20:AT:103:GLY:CA	2.36	0.54
20:AT:6:LEU:HD22	20:AT:23:VAL:HG21	1.90	0.54
20:AT:90:ILE:O	20:AT:94:ASN:ND2	2.40	0.54
21:AU:53:ARG:C	21:AU:55:ARG:N	2.60	0.54
21:AU:68:LYS:HG3	21:AU:72:ARG:HD2	1.90	0.54
23:AW:57:ARG:NH1	23:AW:102:GLY:HA3	2.12	0.54
24:AX:6:ARG:NH1	24:AX:6:ARG:CB	2.71	0.54
51:B3:64:GLY:O	51:B3:67:TYR:N	2.40	0.54
52:B4:13:LYS:HD2	52:B4:16:ARG:HH11	1.72	0.54
53:B5:19:ARG:HH11	53:B5:43:CYS:CB	2.19	0.54
55:B7:52:LYS:O	55:B7:56:GLU:OE1	2.26	0.54
25:BA:1107:G:H2'	25:BA:1108:U:C5'	2.38	0.54
25:BA:112:U:H2'	25:BA:113:G:O5'	2.08	0.54
25:BA:1263:U:O3'	52:B4:10:LYS:HD3	2.08	0.54
25:BA:1275:A:O2'	25:BA:1276:A:O5'	2.25	0.54
25:BA:145:G:C6	25:BA:146:G:C6	2.95	0.54
25:BA:1507:A:OP1	25:BA:1508:A:H2	1.90	0.54
25:BA:1567:A:H4'	25:BA:1568:G:N2	2.23	0.54
25:BA:1613:G:C3'	25:BA:1614:A:C5'	2.77	0.54
25:BA:1677:A:H2'	25:BA:1677:A:N3	2.21	0.54
25:BA:1676:A:C5	25:BA:1677:A:N7	2.76	0.54
25:BA:1689:A:N3	25:BA:1690:A:C8	2.75	0.54
25:BA:1778:U:O2'	25:BA:1779:U:O5'	2.25	0.54
25:BA:1805:U:H1'	28:BD:51:VAL:HG11	1.86	0.54
25:BA:1822:G:N2	25:BA:1823:G:C4	2.75	0.54
25:BA:1927:A:N6	25:BA:1928:A:N1	2.56	0.54
25:BA:1952:A:C6	25:BA:1953:A:N1	2.76	0.54
25:BA:528:A:N7	25:BA:2042:A:N6	2.55	0.54
25:BA:2182:G:C6	25:BA:2183:C:C4	2.96	0.54
25:BA:2312:U:O2'	25:BA:2313:C:H5'	2.08	0.54
25:BA:2499:C:N4	25:BA:2500:U:N3	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2564:A:N6	25:BA:2565:A:N6	2.56	0.54
25:BA:2592:G:H2'	25:BA:2593:U:O5'	2.08	0.54
25:BA:2598:A:OP1	28:BD:234:GLY:CA	2.30	0.54
25:BA:2720:U:C6	25:BA:2721:A:N7	2.76	0.54
25:BA:2740:A:C2	25:BA:2741:A:C6	2.95	0.54
25:BA:2747:G:C2	25:BA:2754:U:C4	2.95	0.54
25:BA:2887:U:N3	25:BA:2888:C:C5	2.75	0.54
25:BA:355:G:C6	25:BA:356:G:C6	2.96	0.54
25:BA:807:U:OP1	25:BA:830:G:N2	2.40	0.54
25:BA:1791:A:C8	28:BD:209:ALA:HB2	2.43	0.54
28:BD:8:PRO:O	28:BD:25:THR:HG23	2.07	0.54
29:BE:13:ARG:NH1	29:BE:21:VAL:N	2.56	0.54
29:BE:8:LYS:CB	29:BE:24:THR:HG21	2.37	0.54
30:BF:199:TRP:O	30:BF:203:GLN:OE1	2.26	0.54
30:BF:43:LYS:HB2	30:BF:99:TYR:HB2	1.90	0.54
32:BH:83:TYR:O	32:BH:135:GLY:CA	2.55	0.54
32:BH:156:ALA:HB1	32:BH:172:LYS:HZ2	1.71	0.54
35:BM:42:TRP:CZ3	42:BT:71:GLN:NE2	2.75	0.54
35:BM:60:ILE:HG22	35:BM:61:ARG:O	2.07	0.54
35:BM:99:LEU:HD11	35:BM:122:VAL:HG11	1.90	0.54
36:BN:101:PRO:HD3	36:BN:119:PRO:O	2.07	0.54
36:BN:68:GLU:HG3	36:BN:104:ARG:HD2	1.89	0.54
25:BA:603:A:H62	37:BO:104:GLY:HA2	1.73	0.54
38:BP:13:GLN:HA	38:BP:13:GLN:HE21	1.72	0.54
39:BQ:61:HIS:CE1	39:BQ:64:ARG:NE	2.76	0.54
40:BR:101:LEU:O	40:BR:104:GLY:N	2.40	0.54
40:BR:42:ASP:OD1	40:BR:44:LYS:HD3	2.08	0.54
40:BR:95:HIS:ND1	40:BR:96:GLY:N	2.48	0.54
41:BS:105:LEU:O	41:BS:107:ASP:N	2.41	0.54
41:BS:54:ARG:HD3	41:BS:55:ASN:OD1	2.07	0.54
41:BS:54:ARG:HH11	41:BS:55:ASN:ND2	2.05	0.54
43:BU:13:ARG:NH1	43:BU:13:ARG:CB	2.54	0.54
44:BV:59:VAL:HG21	44:BV:66:GLU:HA	1.90	0.54
47:BY:43:GLU:O	47:BY:45:ASP:N	2.40	0.54
48:BZ:12:ASN:OD1	48:BZ:14:ARG:NH2	2.41	0.54
25:BA:1052:C:O2'	25:BA:1053:C:H5'	2.08	0.54
34:BL:103:GLN:O	34:BL:107:ILE:HG13	2.07	0.54
34:BL:11:GLN:C	34:BL:12:LEU:HG	2.28	0.54
34:BL:98:ARG:CD	34:BL:139:VAL:HB	2.38	0.54
1:AA:1017:G:C2'	1:AA:1018:C:O5'	2.56	0.54
1:AA:1104:G:H2'	1:AA:1105:A:O4'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1248:A:N1	1:AA:1249:C:N3	2.55	0.54
1:AA:1250:A:N3	1:AA:1370:G:O2'	2.41	0.54
1:AA:1289:A:C2'	1:AA:1290:G:O5'	2.56	0.54
1:AA:1347:G:H8	12:AL:107:ARG:HD2	1.70	0.54
1:AA:1502:A:C2	1:AA:1504:G:N3	2.75	0.54
1:AA:321:A:C2	1:AA:322:C:C4	2.95	0.54
1:AA:329:A:H2'	1:AA:332:G:O6	2.07	0.54
1:AA:509:A:C6	1:AA:510:A:N1	2.75	0.54
1:AA:553:A:H2'	1:AA:554:C:O4'	2.08	0.54
1:AA:756:C:H2'	1:AA:757:U:H6	1.71	0.54
1:AA:789:U:C2	1:AA:791:G:OP2	2.60	0.54
1:AA:809:G:N2	1:AA:810:C:C2	2.76	0.54
1:AA:817:C:C2'	1:AA:818:G:O5'	2.55	0.54
1:AA:949:A:N3	1:AA:971:G:C6	2.76	0.54
2:AC:48:C:O2	2:AC:48:C:H2'	2.08	0.54
3:AD:60:U:H3'	3:AD:60:U:H6	1.73	0.54
6:AF:138:VAL:HG13	6:AF:149:ALA:CB	2.38	0.54
8:AH:14:ARG:HG3	8:AH:16:THR:HG22	1.89	0.54
10:AJ:136:LYS:HD2	10:AJ:140:ASP:OD1	2.06	0.54
10:AJ:139:GLU:N	10:AJ:139:GLU:OE1	2.41	0.54
10:AJ:71:PRO:C	10:AJ:96:GLN:HE21	2.11	0.54
11:AK:34:GLU:O	11:AK:38:ILE:CD1	2.56	0.54
11:AK:21:LYS:C	11:AK:63:LEU:HD13	2.28	0.54
11:AK:44:PHE:H	11:AK:64:LYS:NZ	2.06	0.54
12:AL:20:ARG:O	12:AL:21:PRO:C	2.46	0.54
6:AF:5:ILE:CG2	13:AM:51:ARG:HH12	2.17	0.54
14:AN:73:MET:HE2	14:AN:103:LEU:HD22	1.90	0.54
14:AN:13:GLN:HA	14:AN:76:GLY:HA3	1.89	0.54
14:AN:15:ALA:O	14:AN:78:GLN:NE2	2.41	0.54
15:AO:85:ILE:HG13	15:AO:87:GLY:N	2.21	0.54
15:AO:91:LYS:O	15:AO:92:ASP:CB	2.54	0.54
1:AA:755:G:OP1	18:AR:66:LEU:CD1	2.56	0.54
49:B1:16:LEU:HA	49:B1:19:LEU:HD12	1.89	0.54
51:B3:17:GLY:C	51:B3:33:VAL:HG11	2.28	0.54
51:B3:66:SER:O	51:B3:69:LYS:CB	2.55	0.54
52:B4:55:ARG:O	52:B4:56:LYS:CG	2.54	0.54
52:B4:56:LYS:HG2	52:B4:57:VAL:HG13	1.87	0.54
55:B7:25:MET:O	55:B7:27:THR:CG2	2.56	0.54
55:B7:42:ARG:HB3	55:B7:43:GLN:NE2	2.21	0.54
25:BA:594:U:H5''	55:B7:61:LEU:CD1	2.38	0.54
25:BA:1021:A:H3'	25:BA:1021:A:H8	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1206:G:C2'	25:BA:1207:C:O4'	2.56	0.54
25:BA:1225:C:C4	25:BA:1226:G:N1	2.75	0.54
25:BA:1237:A:O2'	25:BA:1238:G:OP1	2.26	0.54
25:BA:1254:A:N7	25:BA:1256:G:C4	2.76	0.54
25:BA:1274:A:N7	25:BA:1646:C:N3	2.55	0.54
25:BA:1286:A:N3	25:BA:1329:U:C5	2.76	0.54
25:BA:1342:A:H2'	25:BA:1345:C:N4	2.23	0.54
25:BA:1436:G:N2	25:BA:1437:C:C2	2.76	0.54
25:BA:1552:G:O2'	25:BA:1553:A:C5'	2.56	0.54
25:BA:1571:A:P	25:BA:1571:A:O4'	2.66	0.54
25:BA:1709:U:H2'	25:BA:1710:C:H6	1.63	0.54
25:BA:176:G:H2'	25:BA:177:G:H8	1.73	0.54
25:BA:1779:U:O2'	25:BA:1783:A:N6	2.40	0.54
25:BA:1941:C:C6	25:BA:1965:C:C5	2.95	0.54
25:BA:197:A:H3'	25:BA:198:C:C5	2.42	0.54
25:BA:1992:G:C8	25:BA:1997:G:C6	2.96	0.54
25:BA:528:A:C2	25:BA:2043:C:H4'	2.43	0.54
25:BA:2068:U:O2	25:BA:2430:A:N1	2.40	0.54
25:BA:2198:A:H8	33:BK:33:ARG:HH12	1.53	0.54
25:BA:2209:C:O2'	25:BA:2210:G:C2'	2.56	0.54
25:BA:2307:G:C3'	25:BA:2308:G:C4'	2.80	0.54
25:BA:2063:C:O2	25:BA:2451:A:C2	2.61	0.54
25:BA:2468:G:N2	25:BA:2481:G:C2'	2.65	0.54
25:BA:2492:U:O2'	25:BA:2493:U:OP1	2.24	0.54
25:BA:2491:U:C5	25:BA:2492:U:O5'	2.61	0.54
25:BA:1128:A:N6	25:BA:2518:A:N6	2.55	0.54
25:BA:252:G:H21	25:BA:253:C:C1'	2.20	0.54
25:BA:2572:A:H5''	25:BA:2574:G:C4'	2.38	0.54
25:BA:2748:A:C2	25:BA:2757:A:N6	2.70	0.54
25:BA:2829:C:H2'	25:BA:2830:G:H8	1.72	0.54
25:BA:2900:A:C2	25:BA:2901:C:C2	2.96	0.54
25:BA:337:C:C2'	25:BA:338:G:C5'	2.80	0.54
25:BA:458:G:C5'	54:B6:39:ARG:NE	2.70	0.54
25:BA:474:G:O2'	25:BA:475:U:P	2.65	0.54
25:BA:604:G:C2	25:BA:605:C:C4	2.95	0.54
25:BA:616:A:P	25:BA:616:A:H3'	2.48	0.54
25:BA:61:G:C5	25:BA:62:C:C4	2.96	0.54
25:BA:688:U:H1'	25:BA:786:C:O2'	2.07	0.54
25:BA:783:A:H2'	25:BA:784:A:H4'	1.89	0.54
27:BC:123:VAL:HG11	27:BC:138:PRO:CG	2.38	0.54
27:BC:155:GLU:OE2	27:BC:159:GLY:O	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:25:ALA:HB1	27:BC:214:VAL:HG21	1.89	0.54
28:BD:138:VAL:HG12	28:BD:138:VAL:O	2.08	0.54
28:BD:181:GLU:CD	28:BD:270:ILE:CG2	2.76	0.54
28:BD:205:VAL:HG13	28:BD:205:VAL:O	2.08	0.54
28:BD:234:GLY:H	28:BD:241:PRO:HB3	1.73	0.54
28:BD:60:ARG:CB	28:BD:62:TYR:HE2	2.20	0.54
29:BE:13:ARG:CZ	29:BE:20:ALA:C	2.76	0.54
25:BA:2571:C:O2'	29:BE:146:THR:CB	2.56	0.54
29:BE:154:LYS:NZ	29:BE:155:LYS:O	2.32	0.54
29:BE:188:VAL:N	29:BE:189:PRO:HD2	2.23	0.54
29:BE:67:PHE:O	29:BE:68:ALA:O	2.25	0.54
25:BA:1248:G:N2	30:BF:52:LYS:NZ	2.51	0.54
32:BH:172:LYS:O	32:BH:173:PRO:O	2.26	0.54
35:BM:23:LEU:HD12	35:BM:63:THR:HG23	1.89	0.54
35:BM:58:ASP:CG	35:BM:59:LYS:HG2	2.27	0.54
36:BN:100:GLY:N	41:BS:74:ARG:HH21	2.06	0.54
36:BN:10:VAL:O	36:BN:11:ALA:HB3	2.08	0.54
38:BP:25:ASP:OD2	38:BP:101:ARG:NH1	2.41	0.54
40:BR:78:LEU:C	40:BR:78:LEU:HD13	2.28	0.54
42:BT:89:GLU:HB3	43:BU:52:VAL:H	1.69	0.54
43:BU:13:ARG:O	43:BU:14:VAL:CG2	2.55	0.54
44:BV:11:ARG:CA	44:BV:100:THR:HG22	2.38	0.54
46:BX:22:GLY:C	46:BX:73:ARG:HH22	2.11	0.54
47:BY:77:ASP:HB2	47:BY:82:ARG:O	2.08	0.54
48:BZ:1:MET:O	48:BZ:2:ALA:CB	2.55	0.54
6:AF:157:ILE:HG21	6:AF:164:ARG:CZ	2.38	0.54
26:BB:88:C:C5	26:BB:89:G:O4'	2.60	0.54
1:AA:78:G:N1	1:AA:79:G:C5	2.76	0.54
3:AD:67:C:C4	3:AD:68:U:C5	2.95	0.54
32:BH:114:VAL:HG13	32:BH:114:VAL:O	2.08	0.54
1:AA:1065:U:O2	1:AA:1065:U:C2'	2.56	0.54
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.38	0.54
1:AA:1200:C:H4'	1:AA:1200:C:OP2	2.07	0.54
1:AA:1230:C:C1'	16:AP:125:ARG:HH22	2.21	0.54
1:AA:1419:G:H2'	1:AA:1420:C:H6	1.71	0.54
1:AA:185:A:C6	1:AA:186:C:C4	2.96	0.54
1:AA:411:A:C2	1:AA:429:U:O4	2.60	0.54
1:AA:489:C:C2	1:AA:490:G:C8	2.95	0.54
1:AA:580:U:C2	1:AA:581:G:C8	2.96	0.54
1:AA:609:A:H2	1:AA:610:G:H1'	1.65	0.54
1:AA:610:G:H2'	1:AA:611:A:C5'	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:696:A:H3'	1:AA:697:U:C5	2.42	0.54
1:AA:730:G:H2'	1:AA:731:G:C4'	2.38	0.54
1:AA:789:U:H2'	1:AA:790:A:O5'	2.08	0.54
1:AA:992:U:H4'	1:AA:993:G:C5'	2.37	0.54
2:AC:14:A:H2'	2:AC:15:G:C8	2.43	0.54
2:AC:18:G:N1	2:AC:57:A:C6	2.76	0.54
2:AC:8:U:O2'	2:AC:46:G:N2	2.40	0.54
3:AD:54:U:OP2	3:AD:55:U:C4	2.61	0.54
5:AE:143:GLU:O	5:AE:147:LYS:HB2	2.08	0.54
5:AE:169:LYS:O	5:AE:169:LYS:HE2	2.08	0.54
5:AE:166:ASP:OD1	5:AE:205:ASP:OD2	2.26	0.54
5:AE:14:GLY:CA	5:AE:209:ARG:NH2	2.56	0.54
6:AF:15:THR:HG21	6:AF:181:ASN:CG	2.29	0.54
7:AG:100:ARG:O	7:AG:104:VAL:HG22	2.08	0.54
7:AG:129:ASN:HD21	7:AG:145:GLU:HG2	1.72	0.54
8:AH:72:GLN:HB2	8:AH:77:PRO:HD3	1.89	0.54
11:AK:10:LEU:O	11:AK:14:ARG:NH1	2.41	0.54
11:AK:19:VAL:CG2	11:AK:21:LYS:HG2	2.28	0.54
11:AK:37:ARG:HG3	11:AK:37:ARG:NH1	2.23	0.54
12:AL:27:THR:HB	12:AL:62:TYR:CD1	2.31	0.54
12:AL:45:ALA:HB3	12:AL:74:ILE:HG22	1.87	0.54
13:AM:42:THR:HG23	13:AM:67:THR:O	2.08	0.54
13:AM:5:ARG:NH2	13:AM:73:ASP:OD2	2.41	0.54
14:AN:85:ARG:NE	14:AN:113:PRO:CD	2.71	0.54
15:AO:28:LYS:CD	15:AO:33:ARG:HH22	2.09	0.54
15:AO:41:ARG:CB	15:AO:41:ARG:NH1	2.65	0.54
15:AO:86:ARG:HE	15:AO:99:HIS:HE1	1.54	0.54
18:AR:83:GLU:O	18:AR:84:LYS:C	2.46	0.54
19:AS:51:VAL:HG21	19:AS:73:LEU:CD1	2.37	0.54
1:AA:761:G:H5'	20:AT:102:GLY:C	2.27	0.54
21:AU:45:SER:HB2	21:AU:46:GLU:OE2	2.08	0.54
22:AV:4:SER:O	22:AV:5:LEU:HD23	2.08	0.54
24:AX:5:ASP:OD1	24:AX:7:ARG:HG3	2.08	0.54
49:B1:26:GLU:HA	49:B1:29:GLU:CG	2.37	0.54
49:B1:28:MET:O	49:B1:31:ARG:HG2	2.08	0.54
49:B1:63:ARG:CB	49:B1:63:ARG:NH2	2.71	0.54
25:BA:1184:G:P	50:B2:30:ARG:HE	2.30	0.54
51:B3:56:VAL:C	51:B3:61:ARG:CZ	2.76	0.54
44:BV:23:LEU:HD11	52:B4:27:PRO:CB	2.38	0.54
53:B5:17:LYS:O	53:B5:19:ARG:HD2	2.08	0.54
25:BA:210:C:OP1	54:B6:29:LYS:HE2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:B8:7:VAL:HG22	56:B8:34:GLN:CB	2.38	0.54
56:B8:24:TYR:HE1	56:B8:37:GLY:H	1.56	0.54
25:BA:1140:C:O2'	25:BA:1141:U:P	2.66	0.54
25:BA:1144:G:O2'	25:BA:1145:C:H5'	2.07	0.54
25:BA:1176:G:H3'	25:BA:1177:A:O4'	2.08	0.54
25:BA:1263:U:C6	25:BA:1264:G:C2	2.95	0.54
25:BA:1321:A:C2	25:BA:1322:A:O4'	2.61	0.54
25:BA:1335:U:OP1	45:BW:65:ARG:NE	2.41	0.54
25:BA:134:C:O5'	25:BA:134:C:H6	1.90	0.54
25:BA:1365:A:C2'	25:BA:1366:A:H8	2.14	0.54
25:BA:1526:G:H1	25:BA:1546:C:H42	1.55	0.54
25:BA:1579:A:H2'	25:BA:1580:A:O4'	2.08	0.54
25:BA:1676:A:N6	25:BA:1677:A:N6	2.56	0.54
25:BA:1750:G:N3	25:BA:2860:A:C2	2.76	0.54
25:BA:1757:U:O2	25:BA:1761:C:N4	2.41	0.54
25:BA:1779:U:C2'	25:BA:1783:A:H62	2.21	0.54
25:BA:1826:G:H2'	25:BA:1827:C:C5'	2.36	0.54
25:BA:1935:G:C4'	25:BA:1937:A:C2	2.91	0.54
25:BA:197:A:H3'	25:BA:198:C:H6	1.72	0.54
25:BA:1674:G:H1	25:BA:1991:U:H3	1.56	0.54
25:BA:2134:A:C2	25:BA:2135:A:C2	2.96	0.54
25:BA:2245:U:O2	25:BA:2435:A:C8	2.61	0.54
25:BA:2311:A:H3'	25:BA:2312:U:C6	2.42	0.54
25:BA:2323:G:H2'	25:BA:2324:C:C5	2.43	0.54
25:BA:2375:G:N2	25:BA:2379:G:C4	2.76	0.54
25:BA:2389:G:OP1	25:BA:2390:U:H5'	2.08	0.54
25:BA:2581:G:N1	25:BA:2610:C:H6	2.04	0.54
25:BA:2617:C:C4	25:BA:2618:G:N7	2.76	0.54
25:BA:2624:G:C3'	25:BA:2625:G:H5''	2.38	0.54
25:BA:2639:A:N9	25:BA:2778:A:N1	2.55	0.54
25:BA:2785:C:C4	25:BA:2786:U:C4	2.96	0.54
25:BA:794:G:N2	25:BA:795:C:C2	2.76	0.54
25:BA:822:U:O2	25:BA:823:G:C8	2.61	0.54
25:BA:805:G:O2'	25:BA:831:G:H4'	2.07	0.54
25:BA:870:A:O5'	25:BA:871:U:OP2	2.24	0.54
25:BA:945:A:C3'	25:BA:946:G:H5''	2.37	0.54
26:BB:13:A:N6	26:BB:70:C:H5'	2.23	0.54
26:BB:57:A:N3	31:BG:29:TRP:CD1	2.76	0.54
26:BB:71:C:C2	26:BB:72:G:O4'	2.60	0.54
26:BB:82:G:C2	26:BB:83:G:C8	2.96	0.54
28:BD:106:ILE:HD11	28:BD:192:THR:CG2	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:108:PRO:O	28:BD:111:LEU:HD23	2.07	0.54
28:BD:136:ILE:H	28:BD:168:ARG:HH22	1.56	0.54
28:BD:181:GLU:CG	28:BD:268:ARG:NE	2.64	0.54
28:BD:85:ASP:CB	28:BD:87:ASN:ND2	2.69	0.54
25:BA:2571:C:C2'	29:BE:146:THR:OG1	2.55	0.54
29:BE:6:GLY:N	29:BE:76:ARG:HH22	2.06	0.54
29:BE:81:ILE:O	29:BE:82:ARG:HB2	2.08	0.54
30:BF:155:LEU:HA	30:BF:174:VAL:HG21	1.87	0.54
25:BA:674:G:C2'	30:BF:74:ARG:HH22	2.21	0.54
31:BG:15:VAL:HG23	31:BG:16:ARG:N	2.22	0.54
32:BH:90:LYS:HE2	32:BH:163:TYR:CG	2.43	0.54
32:BH:51:ARG:CA	32:BH:51:ARG:NE	2.69	0.54
36:BN:10:VAL:C	36:BN:17:ARG:HG3	2.28	0.54
36:BN:14:THR:C	36:BN:52:VAL:HG11	2.27	0.54
36:BN:94:ARG:O	36:BN:95:GLY:O	2.25	0.54
37:BO:127:ALA:HB1	37:BO:128:HIS:CE1	2.43	0.54
37:BO:7:ARG:HD3	37:BO:8:PRO:CD	2.38	0.54
39:BQ:52:ILE:O	39:BQ:52:ILE:HD13	2.07	0.54
40:BR:71:ARG:HB3	40:BR:107:GLU:HG2	1.90	0.54
29:BE:14:ILE:HD11	41:BS:14:TYR:CD2	2.42	0.54
41:BS:17:THR:HG22	41:BS:19:LEU:H	1.72	0.54
36:BN:77:ILE:HG12	41:BS:75:ILE:HD11	1.89	0.54
42:BT:15:LYS:HG2	42:BT:18:LEU:CD1	2.38	0.54
25:BA:2020:A:OP2	42:BT:27:LEU:HD22	2.07	0.54
42:BT:93:LYS:CG	43:BU:10:LYS:NZ	2.67	0.54
44:BV:63:ASP:O	44:BV:64:MET:O	2.25	0.54
46:BX:16:ALA:HB3	46:BX:68:HIS:CE1	2.41	0.54
47:BY:6:LYS:HE2	47:BY:35:ARG:HD3	1.89	0.54
33:BK:123:LEU:HG	33:BK:124:GLY:H	1.71	0.54
33:BK:128:LEU:O	33:BK:139:GLN:HA	2.06	0.54
34:BL:77:LEU:CA	34:BL:80:LYS:HB2	2.38	0.54
1:AA:1538:C:H2'	1:AA:1539:C:C5	2.43	0.54
1:AA:85:U:H2'	1:AA:86:U:C5'	2.37	0.54
28:BD:273:ARG:CZ	28:BD:273:ARG:CB	2.78	0.54
1:AA:1230:C:C4'	16:AP:125:ARG:HH22	2.21	0.54
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.42	0.54
1:AA:1361:G:C2'	1:AA:1362:C:H5'	2.38	0.54
1:AA:247:G:N2	1:AA:282:A:H2	2.05	0.54
1:AA:431:A:O2'	1:AA:432:A:H5'	2.08	0.54
1:AA:487:A:C2'	1:AA:488:C:H5'	2.38	0.54
1:AA:585:G:O5'	1:AA:585:G:H8	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:754:C:C3'	1:AA:754:C:O2	2.56	0.54
1:AA:715:A:O4'	1:AA:777:A:C6	2.61	0.54
1:AA:810:C:HO2'	1:AA:811:C:C4'	2.21	0.54
1:AA:828:A:H2'	1:AA:829:G:C8	2.42	0.54
1:AA:864:A:C2	1:AA:917:G:N3	2.76	0.54
1:AA:912:C:N4	1:AA:913:A:N6	2.56	0.54
3:AD:16:U:H4'	3:AD:18:G:OP2	2.08	0.54
5:AE:173:ALA:O	5:AE:174:VAL:C	2.45	0.54
6:AF:109:PRO:HA	6:AF:112:SER:OG	2.08	0.54
6:AF:180:ALA:HB1	6:AF:182:ILE:HG13	1.90	0.54
1:AA:1057:G:H5'	6:AF:196:LEU:HA	1.90	0.54
6:AF:5:ILE:HD12	6:AF:5:ILE:N	2.22	0.54
7:AG:11:LEU:O	7:AG:12:CYS:C	2.46	0.54
7:AG:13:ARG:HH12	7:AG:36:ARG:CD	2.14	0.54
9:AI:13:ASN:HD22	9:AI:13:ASN:H	1.54	0.54
10:AJ:26:PHE:CE1	10:AJ:30:ILE:HG12	2.42	0.54
11:AK:23:SER:O	11:AK:24:THR:CB	2.56	0.54
11:AK:5:PRO:HA	11:AK:8:ASP:OD1	2.08	0.54
11:AK:95:VAL:HG21	11:AK:133:LEU:HD11	1.90	0.54
14:AN:126:ARG:HB3	14:AN:126:ARG:HH11	1.72	0.54
14:AN:43:SER:HA	14:AN:47:VAL:HG21	1.90	0.54
15:AO:76:ASN:HD21	15:AO:107:ALA:HA	1.73	0.54
15:AO:59:ARG:HE	15:AO:65:GLU:HG2	1.72	0.54
17:AQ:26:ARG:C	17:AQ:28:GLY:H	2.12	0.54
19:AS:14:ASN:HA	19:AS:42:ARG:NH2	2.22	0.54
20:AT:3:LYS:O	20:AT:4:LYS:O	2.25	0.54
20:AT:43:LEU:C	20:AT:43:LEU:CD1	2.77	0.54
21:AU:59:SER:O	21:AU:62:GLU:HB2	2.08	0.54
23:AW:45:GLN:HE21	23:AW:91:LEU:CB	2.17	0.54
1:AA:193:C:O4'	23:AW:60:GLU:CG	2.54	0.54
49:B1:16:LEU:HD21	49:B1:59:LEU:CB	2.33	0.54
49:B1:2:ARG:HB3	49:B1:5:LEU:HD13	1.90	0.54
50:B2:13:ILE:HG23	50:B2:14:GLY:N	2.23	0.54
50:B2:17:LYS:O	50:B2:18:ASP:C	2.46	0.54
50:B2:40:THR:CB	50:B2:43:ILE:HG12	2.38	0.54
50:B2:4:LEU:HD23	50:B2:4:LEU:C	2.29	0.54
51:B3:42:PHE:CE1	51:B3:43:TYR:O	2.61	0.54
53:B5:9:LEU:HD22	53:B5:27:LYS:HA	1.90	0.54
25:BA:179:G:C5'	54:B6:32:LYS:HZ1	2.11	0.54
55:B7:13:ARG:HB3	55:B7:24:ALA:CB	2.38	0.54
25:BA:1027:A:N3	25:BA:1028:A:N7	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1035:U:H2'	25:BA:1036:G:H8	1.73	0.54
25:BA:1138:G:N2	25:BA:1139:G:H1'	2.22	0.54
25:BA:1224:G:C2	43:BU:87:HIS:NE2	2.63	0.54
25:BA:1364:G:C2	25:BA:1368:G:C4	2.96	0.54
25:BA:1419:A:N9	25:BA:1420:U:O2	2.40	0.54
25:BA:141:A:C4	25:BA:1596:A:O2'	2.60	0.54
25:BA:1433:U:O5'	25:BA:1433:U:H6	1.91	0.54
25:BA:1470:G:C2	25:BA:1520:U:O4	2.60	0.54
25:BA:1598:C:H5''	45:BW:36:LYS:CB	2.30	0.54
25:BA:1603:A:N1	25:BA:1604:C:C4	2.75	0.54
25:BA:1822:G:C2	25:BA:1823:G:C8	2.96	0.54
25:BA:1947:C:C6	25:BA:1947:C:H5''	2.42	0.54
25:BA:1964:G:N3	25:BA:1967:C:H5	2.04	0.54
25:BA:1993:U:H2'	25:BA:1994:C:O4'	2.07	0.54
25:BA:2061:G:OP2	25:BA:2502:G:H5'	2.07	0.54
25:BA:2101:G:H2'	25:BA:2102:U:H6	1.73	0.54
25:BA:2159:G:O2'	25:BA:2160:G:H5'	2.08	0.54
25:BA:2306:C:N3	31:BG:46:ALA:CB	2.53	0.54
25:BA:2388:A:N7	25:BA:2389:G:N7	2.55	0.54
3:AD:76:A:H2'	25:BA:2432:A:H1'	1.89	0.54
25:BA:2674:G:H2'	25:BA:2675:A:C8	2.43	0.54
25:BA:2704:C:C4	25:BA:2705:A:C6	2.96	0.54
25:BA:1664:A:HO2'	25:BA:2726:U:H3	1.53	0.54
25:BA:2783:G:C6	25:BA:2784:C:N4	2.75	0.54
25:BA:2811:G:H2'	25:BA:2812:G:O4'	2.08	0.54
25:BA:295:G:C8	25:BA:345:A:H2	2.26	0.54
25:BA:324:A:H2	25:BA:325:G:N9	2.05	0.54
25:BA:325:G:H2'	25:BA:326:G:O5'	2.07	0.54
25:BA:424:G:HO2'	25:BA:425:G:H5'	1.71	0.54
25:BA:209:C:C5'	25:BA:681:G:H4'	2.31	0.54
25:BA:783:A:H2'	25:BA:784:A:C4'	2.38	0.54
25:BA:807:U:H2'	25:BA:808:G:H8	1.72	0.54
27:BC:43:VAL:HB	27:BC:175:VAL:HG13	1.89	0.54
27:BC:33:ALA:HB3	27:BC:39:GLU:OE1	2.08	0.54
27:BC:58:VAL:CG1	27:BC:201:PRO:HD3	2.38	0.54
25:BA:1813:G:C2'	28:BD:52:ARG:HH11	2.14	0.54
28:BD:53:PHE:O	28:BD:54:ARG:HG3	2.06	0.54
28:BD:5:LYS:CD	28:BD:81:ALA:HB1	2.38	0.54
28:BD:80:ALA:CB	28:BD:94:LEU:O	2.54	0.54
31:BG:123:ASN:HB3	31:BG:126:ASP:OD2	2.08	0.54
31:BG:128:ARG:NH1	31:BG:130:ASN:ND2	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:36:LYS:HZ1	31:BG:38:VAL:CG1	2.17	0.54
31:BG:50:ALA:HB3	31:BG:51:ARG:HH21	1.73	0.54
31:BG:96:ARG:O	31:BG:99:MET:N	2.41	0.54
32:BH:137:ASP:HB3	32:BH:140:LYS:CE	2.35	0.54
33:BK:2:LYS:HB3	33:BK:39:ALA:HB2	1.90	0.54
35:BM:19:GLU:HB2	35:BM:59:LYS:HG3	1.90	0.54
35:BM:23:LEU:HD11	35:BM:63:THR:N	2.22	0.54
36:BN:102:VAL:O	36:BN:105:GLU:HG3	2.07	0.54
36:BN:48:PRO:O	36:BN:50:GLY:N	2.41	0.54
38:BP:132:VAL:HG12	38:BP:133:ARG:NH2	2.23	0.54
38:BP:47:ILE:O	38:BP:48:GLU:C	2.44	0.54
38:BP:6:ARG:CG	38:BP:7:MET:N	2.69	0.54
25:BA:2723:C:H4'	39:BQ:2:ARG:O	2.07	0.54
39:BQ:96:ARG:O	39:BQ:114:VAL:CG1	2.54	0.54
40:BR:26:LEU:HD22	40:BR:27:SER:N	2.22	0.54
40:BR:57:LYS:HD2	40:BR:65:VAL:HA	1.89	0.54
40:BR:94:TYR:CA	40:BR:99:LYS:HB2	2.36	0.54
25:BA:1155:A:OP1	42:BT:55:ARG:CG	2.55	0.54
42:BT:76:TYR:CD2	42:BT:80:ILE:HD11	2.31	0.54
43:BU:22:VAL:CG1	43:BU:24:LYS:HZ3	2.21	0.54
43:BU:62:LEU:CD1	43:BU:96:ILE:HD13	2.37	0.54
43:BU:88:ARG:CG	43:BU:89:GLN:N	2.71	0.54
44:BV:41:LYS:HB3	44:BV:41:LYS:HZ2	1.72	0.54
45:BW:50:LYS:HG3	45:BW:85:PRO:HD2	1.88	0.54
46:BX:2:ARG:HH21	46:BX:4:LYS:HB2	1.73	0.54
46:BX:81:LYS:NZ	46:BX:96:ILE:CG1	2.71	0.54
48:BZ:45:PHE:HE2	48:BZ:77:ARG:HD2	1.72	0.54
48:BZ:70:GLN:HB3	48:BZ:78:TYR:O	2.08	0.54
25:BA:1055:G:N3	25:BA:1084:A:H2	2.06	0.54
29:BE:1:MET:O	29:BE:1:MET:CG	2.47	0.54
48:BZ:30:VAL:HG23	48:BZ:30:VAL:O	2.08	0.54
1:AA:1018:C:H2'	1:AA:1019:C:O4'	2.08	0.54
1:AA:101:A:H2'	1:AA:102:G:H8	1.72	0.54
1:AA:1189:C:HO2'	1:AA:1190:G:H5'	1.72	0.54
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.70	0.54
1:AA:1433:A:C8	1:AA:1468:A:N6	2.76	0.54
1:AA:1480:G:N1	1:AA:1481:U:O2	2.41	0.54
1:AA:175:C:H2'	1:AA:176:C:H6	1.72	0.54
1:AA:21:G:N7	1:AA:22:G:N7	2.56	0.54
1:AA:401:C:C2'	1:AA:402:G:H5'	2.38	0.54
1:AA:424:G:C2	1:AA:425:G:N7	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:498:A:C2	1:AA:546:G:N3	2.75	0.54
1:AA:631:G:O2'	1:AA:632:A:C8	2.58	0.54
1:AA:968:A:OP1	1:AA:968:A:O4'	2.26	0.54
2:AC:18:G:N3	2:AC:58:A:N3	2.55	0.54
2:AC:34:C:H2'	2:AC:35:A:H8	1.72	0.54
5:AE:158:LEU:HD23	5:AE:158:LEU:N	2.23	0.54
5:AE:20:GLU:CG	5:AE:189:ASP:OD2	2.56	0.54
5:AE:212:GLN:O	5:AE:216:SER:CB	2.55	0.54
6:AF:126:ARG:CB	6:AF:128:PHE:HE1	2.21	0.54
6:AF:12:LEU:HD23	6:AF:13:GLY:N	2.23	0.54
7:AG:120:LEU:O	7:AG:121:VAL:C	2.47	0.54
7:AG:35:ARG:O	7:AG:37:PRO:N	2.41	0.54
7:AG:54:TYR:O	7:AG:55:ALA:C	2.45	0.54
9:AI:48:LEU:HD23	9:AI:60:PHE:CZ	2.43	0.54
10:AJ:143:ARG:HA	10:AJ:146:GLU:OE1	2.07	0.54
1:AA:589:C:H5'	11:AK:29:SER:OG	2.06	0.54
12:AL:10:ARG:C	12:AL:104:ARG:HH21	2.11	0.54
1:AA:1316:G:H4'	17:AQ:17:LYS:HD2	1.90	0.54
20:AT:56:VAL:HB	20:AT:78:GLU:HB3	1.90	0.54
20:AT:88:TYR:N	20:AT:91:ARG:HH21	2.06	0.54
21:AU:55:ARG:HH11	21:AU:55:ARG:CA	2.20	0.54
23:AW:57:ARG:O	23:AW:58:LYS:C	2.45	0.54
24:AX:6:ARG:HB2	24:AX:6:ARG:CZ	2.38	0.54
52:B4:25:LEU:CG	52:B4:26:THR:N	2.70	0.54
25:BA:2815:C:O2'	52:B4:42:PRO:HG3	2.06	0.54
25:BA:2286:A:OP2	53:B5:27:LYS:HE2	2.08	0.54
55:B7:16:ILE:HG13	55:B7:22:VAL:HG22	1.86	0.54
56:B8:7:VAL:CG1	56:B8:25:VAL:HG21	2.38	0.54
25:BA:1373:A:N7	25:BA:1374:G:N7	2.55	0.54
25:BA:139:G:H2'	25:BA:140:A:H8	1.73	0.54
25:BA:1476:C:C5	25:BA:1477:A:N1	2.76	0.54
25:BA:1422:G:H4'	25:BA:1493:C:O2'	2.08	0.54
25:BA:1530:G:C5	25:BA:1531:C:N4	2.76	0.54
25:BA:1550:C:C2	25:BA:1551:C:C5	2.96	0.54
25:BA:1560:G:H2'	25:BA:1561:G:O5'	2.08	0.54
25:BA:1608:A:C4'	25:BA:1609:A:OP1	2.56	0.54
25:BA:749:C:O2'	25:BA:1617:C:C2'	2.55	0.54
25:BA:1678:G:O5'	25:BA:1678:G:C8	2.58	0.54
25:BA:1705:G:H3'	25:BA:1706:U:H6	1.72	0.54
25:BA:176:G:H2'	25:BA:177:G:C8	2.43	0.54
25:BA:740:U:C6	25:BA:1784:A:N6	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2026:C:N3	25:BA:2027:G:C8	2.75	0.54
25:BA:532:A:C2	25:BA:2035:G:N2	2.69	0.54
25:BA:2199:A:C4	25:BA:2225:A:N1	2.76	0.54
25:BA:2243:U:C2	25:BA:2244:U:C6	2.95	0.54
25:BA:2257:U:H5''	48:BZ:11:ARG:HD3	1.89	0.54
25:BA:2286:A:C5'	25:BA:2287:A:H1'	2.38	0.54
25:BA:2409:G:C2	25:BA:2410:G:H1'	2.43	0.54
25:BA:2503:A:C5'	25:BA:2504:U:P	2.94	0.54
25:BA:2511:U:O2'	25:BA:2512:C:H5'	2.07	0.54
25:BA:2582:G:O2'	25:BA:2583:G:H5'	2.08	0.54
25:BA:2612:C:O2	52:B4:4:HIS:CB	2.56	0.54
25:BA:2051:A:C2	25:BA:2614:A:N6	2.76	0.54
25:BA:2666:C:H3'	25:BA:2667:C:C5'	2.38	0.54
25:BA:270(L):U:OP2	25:BA:270(L):U:C6	2.61	0.54
25:BA:2781:A:N9	25:BA:2782:G:H1'	2.23	0.54
25:BA:2876:G:C2	25:BA:2877:G:N7	2.76	0.54
25:BA:325:G:H2'	25:BA:326:G:H8	1.73	0.54
25:BA:332:A:C4	25:BA:335:C:C5	2.96	0.54
25:BA:429:A:C2'	25:BA:430:G:C8	2.91	0.54
25:BA:459:U:H6	25:BA:469:G:H22	1.55	0.54
25:BA:469:G:OP2	30:BF:59:TYR:CE2	2.61	0.54
25:BA:483:A:H3'	25:BA:484:C:H6	1.73	0.54
25:BA:537:C:H2'	25:BA:539:G:H8	1.71	0.54
25:BA:616:A:H5''	25:BA:617:G:OP2	2.08	0.54
25:BA:60:G:C8	25:BA:63:U:C4	2.96	0.54
25:BA:668:G:H5'	25:BA:669:G:OP2	2.08	0.54
25:BA:681:G:N2	25:BA:682:G:N3	2.56	0.54
25:BA:887:A:O2'	25:BA:889:C:C6	2.61	0.54
25:BA:924:C:H2'	25:BA:925:C:C6	2.38	0.54
25:BA:982:C:C4'	25:BA:983:A:OP1	2.56	0.54
27:BC:107:TRP:CE2	27:BC:109:ASP:HB2	2.43	0.54
28:BD:120:GLY:O	28:BD:131:LEU:HD11	2.08	0.54
28:BD:134:ARG:HA	28:BD:168:ARG:HH12	1.72	0.54
28:BD:217:ARG:HE	28:BD:218:ARG:HD3	1.72	0.54
28:BD:244:ARG:C	28:BD:252:TRP:CD1	2.81	0.54
28:BD:44:ASN:CB	28:BD:217:ARG:HH22	2.20	0.54
31:BG:130:ASN:O	31:BG:159:VAL:O	2.26	0.54
31:BG:170:ARG:HH11	31:BG:170:ARG:CG	2.21	0.54
31:BG:43:LEU:N	31:BG:43:LEU:HD22	2.22	0.54
32:BH:121:ILE:CA	32:BH:134:SER:O	2.37	0.54
35:BM:100:GLU:OE2	35:BM:117:PHE:CE2	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:122:PRO:HB3	37:BO:137:LYS:C	2.28	0.54
37:BO:78:PRO:HB3	37:BO:123:LEU:CD2	2.38	0.54
37:BO:134:ALA:O	37:BO:135:LEU:C	2.46	0.54
37:BO:124:LYS:HB3	37:BO:143:GLY:HA3	1.86	0.54
25:BA:1192:G:OP1	37:BO:18:ARG:NH1	2.41	0.54
37:BO:57:THR:O	37:BO:58:THR:OG1	2.22	0.54
38:BP:51:ARG:CG	38:BP:52:VAL:N	2.66	0.54
38:BP:76:LYS:O	38:BP:78:PRO:HD2	2.07	0.54
40:BR:59:LYS:H	40:BR:59:LYS:CD	2.21	0.54
41:BS:54:ARG:HD3	41:BS:100:TYR:CG	2.43	0.54
41:BS:41:ARG:C	41:BS:43:GLN:HG3	2.27	0.54
41:BS:64:ARG:NE	41:BS:77:PRO:HB3	2.23	0.54
43:BU:33:VAL:O	43:BU:63:GLY:HA2	2.08	0.54
43:BU:74:LYS:HA	43:BU:87:HIS:O	2.07	0.54
25:BA:2014:A:H5'	44:BV:94:ASP:HB2	1.89	0.54
45:BW:33:LYS:O	45:BW:33:LYS:CD	2.53	0.54
47:BY:113:ALA:HB1	47:BY:145:GLU:OE1	2.08	0.54
47:BY:78:LYS:HG3	47:BY:79:ARG:H	1.73	0.54
33:BK:76:THR:N	33:BK:141:LYS:HE2	2.22	0.54
25:BA:1074:G:C6	25:BA:1075:C:N4	2.76	0.54
34:BL:28:GLY:HA2	34:BL:32:ALA:O	2.07	0.54
34:BL:35:MET:CE	34:BL:39:LYS:HE3	2.38	0.54
1:AA:750:G:C2	18:AR:23:GLY:O	2.61	0.54
4:A1:5:A:C4	4:A1:6:G:C8	2.96	0.54
1:AA:1100:C:O2	1:AA:1102:A:H5'	2.08	0.53
1:AA:1068:G:C6	1:AA:1108:G:N3	2.75	0.53
1:AA:1252:A:C5	1:AA:1253:G:N7	2.76	0.53
1:AA:1386:G:C2	1:AA:1387:G:N7	2.76	0.53
1:AA:1468:A:C2'	1:AA:1469:G:O5'	2.55	0.53
1:AA:225:C:C2'	1:AA:226:G:O5'	2.54	0.53
1:AA:236:G:H5'	20:AT:42:TYR:OH	2.08	0.53
1:AA:247:G:N3	1:AA:282:A:H2	2.02	0.53
1:AA:371:G:N2	1:AA:372:C:C5	2.76	0.53
1:AA:50:A:O2'	1:AA:52:G:N7	2.41	0.53
1:AA:538:G:OP2	15:AO:115:LYS:HB2	2.08	0.53
1:AA:576:G:C8	1:AA:881:G:O2'	2.56	0.53
1:AA:702:A:C2'	1:AA:703:G:OP1	2.56	0.53
1:AA:721:G:H1'	1:AA:722:A:C5	2.43	0.53
1:AA:666:G:C2	1:AA:741:G:C4	2.96	0.53
1:AA:818:G:C2'	1:AA:819:A:C5'	2.86	0.53
1:AA:933:G:O5'	1:AA:933:G:H8	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:995:C:O2'	17:AQ:4:LYS:HE2	2.08	0.53
2:AC:58:A:N6	2:AC:61:C:C1'	2.70	0.53
5:AE:161:ALA:HA	5:AE:183:PRO:CG	2.37	0.53
5:AE:177:ALA:O	5:AE:180:LEU:N	2.41	0.53
6:AF:11:ARG:HG3	6:AF:16:ARG:NE	2.05	0.53
7:AG:108:LEU:HD11	7:AG:183:GLY:HA3	1.90	0.53
7:AG:14:ARG:CG	7:AG:15:GLU:N	2.71	0.53
7:AG:31:CYS:O	7:AG:33:MET:SD	2.65	0.53
7:AG:80:GLU:O	7:AG:83:SER:N	2.41	0.53
9:AI:33:TYR:CD2	9:AI:75:LEU:HB2	2.43	0.53
10:AJ:152:ALA:O	10:AJ:154:TYR:N	2.41	0.53
10:AJ:64:GLN:HB3	10:AJ:128:ALA:CB	2.28	0.53
5:AE:181:PHE:CE1	11:AK:71:GLY:HA3	2.43	0.53
16:AP:4:ILE:O	16:AP:5:ALA:HB3	2.07	0.53
16:AP:9:ILE:HG21	31:BG:141:PHE:HZ	1.73	0.53
18:AR:36:ILE:HG13	18:AR:59:MET:SD	2.48	0.53
19:AS:72:ARG:CD	19:AS:73:LEU:N	2.58	0.53
20:AT:7:THR:OG1	20:AT:57:VAL:C	2.46	0.53
21:AU:69:THR:O	21:AU:71:LYS:N	2.41	0.53
21:AU:74:ARG:CB	21:AU:81:PHE:HD2	2.20	0.53
22:AV:11:VAL:HG11	22:AV:41:VAL:HG22	1.90	0.53
22:AV:25:LYS:HE2	22:AV:27:GLU:O	2.08	0.53
22:AV:44:MET:HA	22:AV:47:HIS:NE2	2.22	0.53
23:AW:16:HIS:O	23:AW:19:SER:HB3	2.08	0.53
23:AW:58:LYS:C	23:AW:62:LEU:HD12	2.28	0.53
23:AW:91:LEU:HD23	23:AW:91:LEU:N	2.22	0.53
51:B3:10:VAL:HG23	51:B3:60:GLN:HE22	1.74	0.53
52:B4:6:VAL:HG23	52:B4:7:PRO:HD2	1.89	0.53
53:B5:19:ARG:CG	53:B5:19:ARG:NH1	2.52	0.53
55:B7:51:ALA:O	55:B7:53:PRO:N	2.41	0.53
25:BA:1142(A):A:OP2	25:BA:1142(A):A:C6	2.61	0.53
25:BA:1258:C:O4'	30:BF:84:VAL:HG21	2.08	0.53
25:BA:1299:G:N2	25:BA:1642:G:O6	2.41	0.53
25:BA:1444(A):A:N6	25:BA:1462:C:OP1	2.39	0.53
25:BA:1472:A:N6	25:BA:1474:C:N4	2.56	0.53
25:BA:1488:G:C6	25:BA:1489:U:C2	2.97	0.53
25:BA:155:C:HO2'	25:BA:161:U:H5	1.56	0.53
25:BA:1566:A:O2'	25:BA:1567:A:OP1	2.24	0.53
25:BA:1667:G:C4'	36:BN:7:TYR:OH	2.47	0.53
25:BA:1716:U:H1'	25:BA:1746:G:N2	2.22	0.53
25:BA:1951:U:O2	25:BA:1953:A:O5'	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:199:A:N3	25:BA:2433:A:C2	2.76	0.53
25:BA:1889:A:O4'	25:BA:2087:G:O4'	2.26	0.53
25:BA:2215:G:C2	25:BA:2216:G:N7	2.76	0.53
25:BA:2280:G:C2	25:BA:2281:C:C5	2.96	0.53
25:BA:2356:C:C4	25:BA:2357:U:C4	2.96	0.53
25:BA:2447:G:HO2'	25:BA:2448:A:P	2.28	0.53
25:BA:23:G:O2'	25:BA:24:G:H5'	2.08	0.53
25:BA:2582:G:N2	25:BA:2583:G:H1'	2.23	0.53
25:BA:270(B):A:C1'	25:BA:270(C):C:H5	2.17	0.53
25:BA:2712:U:H2'	25:BA:2712(A):A:C5'	2.28	0.53
25:BA:2818:G:N1	25:BA:2829:C:N4	2.56	0.53
25:BA:2811:G:C6	25:BA:2891:G:N2	2.75	0.53
25:BA:2896:C:H2'	25:BA:2897:U:O5'	2.08	0.53
25:BA:306:U:C5	25:BA:307:G:N9	2.76	0.53
25:BA:299:A:HO2'	25:BA:319:C:H4'	1.64	0.53
25:BA:477:A:C8	25:BA:478:A:N7	2.76	0.53
25:BA:476:G:N1	25:BA:478:A:H3'	2.23	0.53
25:BA:49:A:N6	25:BA:177:G:C4	2.76	0.53
25:BA:561:G:N3	42:BT:45:TYR:OH	2.31	0.53
25:BA:587:C:O2	25:BA:671:C:O4'	2.26	0.53
25:BA:6:A:C2	25:BA:7:G:C8	2.97	0.53
25:BA:821:A:H2'	25:BA:946:G:C8	2.43	0.53
25:BA:835:A:N6	25:BA:836:G:C6	2.76	0.53
25:BA:83:G:O2'	25:BA:84:A:P	2.66	0.53
25:BA:882:G:H2'	25:BA:883:G:C8	2.43	0.53
25:BA:920:G:H2'	25:BA:921:G:H8	1.73	0.53
25:BA:943:U:H5'	37:BO:35:HIS:HE2	1.73	0.53
26:BB:110:G:N3	26:BB:111:U:H1'	2.23	0.53
26:BB:12:C:H5''	48:BZ:74:ARG:CG	2.20	0.53
27:BC:38:ASP:CG	27:BC:178:ALA:HB3	2.28	0.53
27:BC:6:ARG:C	27:BC:8:ARG:N	2.58	0.53
28:BD:70:TRP:CH2	28:BD:190:TYR:CD2	2.96	0.53
28:BD:129:ASN:O	28:BD:193:VAL:HG23	2.07	0.53
28:BD:227:ASN:N	28:BD:227:ASN:HD22	1.99	0.53
28:BD:254:THR:C	28:BD:255:LYS:HD2	2.29	0.53
28:BD:73:VAL:O	28:BD:120:GLY:HA3	2.09	0.53
29:BE:79:ARG:HG2	29:BE:80:GLU:N	2.24	0.53
29:BE:91:VAL:O	29:BE:92:THR:HB	2.08	0.53
30:BF:123:LEU:HD12	30:BF:193:VAL:CG2	2.38	0.53
30:BF:5:ALA:HB1	30:BF:24:LEU:HD11	1.91	0.53
32:BH:121:ILE:HD11	32:BH:123:PHE:CE1	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:119:GLU:C	32:BH:121:ILE:N	2.58	0.53
32:BH:94:TYR:C	32:BH:94:TYR:CD2	2.81	0.53
35:BM:112:LEU:N	35:BM:112:LEU:HD23	2.22	0.53
35:BM:133:GLN:O	35:BM:137:LYS:HE2	2.08	0.53
38:BP:65:PHE:H	38:BP:105:GLU:CG	2.20	0.53
38:BP:77:LYS:CB	38:BP:78:PRO:CD	2.84	0.53
38:BP:98:LYS:H	38:BP:99:PRO:HD2	1.73	0.53
40:BR:68:GLN:O	40:BR:70:GLY:N	2.41	0.53
41:BS:29:ARG:C	41:BS:30:VAL:HG12	2.28	0.53
41:BS:28:VAL:CG2	41:BS:94:ALA:HB2	2.37	0.53
42:BT:89:GLU:CB	43:BU:51:VAL:HB	2.38	0.53
43:BU:40:LEU:CD2	43:BU:51:VAL:HG13	2.37	0.53
43:BU:6:LYS:NZ	43:BU:10:LYS:CD	2.71	0.53
44:BV:104:THR:O	44:BV:104:THR:HG23	2.08	0.53
44:BV:2:GLU:HG3	44:BV:62:HIS:CE1	2.43	0.53
44:BV:34:ASN:HA	44:BV:37:ARG:CD	2.37	0.53
44:BV:5:ALA:HB3	44:BV:105:VAL:HG12	1.90	0.53
45:BW:16:LYS:CE	45:BW:16:LYS:N	2.63	0.53
45:BW:36:LYS:NZ	45:BW:36:LYS:HB2	2.23	0.53
46:BX:18:GLY:O	46:BX:19:LYS:HG3	2.08	0.53
47:BY:100:VAL:O	47:BY:102:LEU:HD23	2.09	0.53
48:BZ:63:VAL:CG2	48:BZ:81:VAL:HG11	2.38	0.53
33:BK:99:GLU:OE1	33:BK:100:ALA:N	2.40	0.53
25:BA:1056:G:H5'	25:BA:1057:A:OP1	2.08	0.53
25:BA:1075:C:O2	25:BA:1075:C:C2'	2.56	0.53
25:BA:1081:U:O4	25:BA:1086:A:C2	2.61	0.53
34:BL:37:PHE:CZ	34:BL:57:ILE:HB	2.43	0.53
22:AV:32:LYS:HB3	22:AV:50:ALA:HB3	1.89	0.53
1:AA:842:C:H4'	1:AA:848:C:C2	2.43	0.53
1:AA:82:U:C2	1:AA:85:U:OP2	2.61	0.53
3:AD:44:G:C6	3:AD:45:U:O2	2.61	0.53
3:AD:44:G:H2'	3:AD:45:U:H5'	1.90	0.53
25:BA:439:G:H2'	25:BA:440:G:C8	2.43	0.53
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.43	0.53
1:AA:1182:G:H4'	1:AA:1183:A:C5'	2.38	0.53
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.43	0.53
1:AA:1502:A:N6	1:AA:1504:G:N2	2.56	0.53
1:AA:152:A:C8	1:AA:153:C:C6	2.96	0.53
1:AA:422:C:H4'	1:AA:423:G:N3	2.24	0.53
1:AA:465:A:N7	1:AA:467:G:N1	2.56	0.53
1:AA:50:A:N6	1:AA:361:G:C5'	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:610:G:H2'	1:AA:611:A:H5'	1.90	0.53
1:AA:688:G:H2'	1:AA:689:C:C5'	2.38	0.53
1:AA:769:G:O2'	1:AA:770:C:C5'	2.55	0.53
1:AA:792:A:C2'	1:AA:794:A:N6	2.69	0.53
5:AE:10:LEU:HG	5:AE:11:LEU:H	1.73	0.53
5:AE:12:GLU:OE1	5:AE:209:ARG:NH1	2.41	0.53
5:AE:221:LEU:C	5:AE:221:LEU:CD1	2.76	0.53
5:AE:23:ARG:HD3	5:AE:24:TRP:N	2.17	0.53
5:AE:9:GLU:OE1	5:AE:10:LEU:O	2.26	0.53
6:AF:43:LEU:CD1	6:AF:55:VAL:HG11	2.38	0.53
7:AG:155:LEU:N	7:AG:155:LEU:HD22	2.23	0.53
8:AH:147:ASP:O	8:AH:150:ARG:CB	2.53	0.53
9:AI:60:PHE:CD1	9:AI:60:PHE:N	2.77	0.53
9:AI:89:MET:HE3	21:AU:75:ILE:HG21	1.89	0.53
10:AJ:148:ASN:HD22	10:AJ:151:TYR:HD1	1.55	0.53
10:AJ:54:THR:O	10:AJ:55:GLY:C	2.45	0.53
11:AK:37:ARG:HG3	11:AK:37:ARG:HH11	1.73	0.53
12:AL:72:GLY:HA2	12:AL:75:ASP:OD1	2.08	0.53
13:AM:34:VAL:HG22	13:AM:74:ILE:HG12	1.90	0.53
13:AM:74:ILE:HG22	13:AM:75:ILE:O	2.08	0.53
14:AN:32:ILE:O	14:AN:40:ILE:CD1	2.56	0.53
1:AA:691:G:N2	14:AN:51:LYS:HZ1	2.04	0.53
15:AO:120:TYR:O	15:AO:121:GLY:C	2.46	0.53
16:AP:14:ARG:H	16:AP:44:ARG:NE	2.05	0.53
16:AP:52:GLU:HA	16:AP:55:ARG:HD3	1.90	0.53
6:AF:18:TRP:HZ2	17:AQ:55:GLY:O	1.88	0.53
18:AR:40:SER:O	18:AR:41:GLU:C	2.46	0.53
19:AS:16:HIS:CE1	19:AS:42:ARG:NH2	2.77	0.53
20:AT:46:ASP:OD2	20:AT:48:GLU:OE1	2.25	0.53
20:AT:54:GLY:O	20:AT:55:ASP:C	2.46	0.53
1:AA:1320:C:C5	22:AV:37:ARG:NH1	2.76	0.53
50:B2:5:LYS:HZ1	50:B2:57:GLU:CB	2.20	0.53
51:B3:5:ILE:O	51:B3:6:HIS:CB	2.56	0.53
53:B5:35:GLU:O	53:B5:36:LEU:O	2.26	0.53
54:B6:19:ARG:O	54:B6:20:ALA:C	2.46	0.53
55:B7:26:LYS:CE	55:B7:45:GLY:H	2.21	0.53
25:BA:1114:G:C2	25:BA:1115:G:C8	2.96	0.53
25:BA:1283:G:H1'	25:BA:1329:U:O2	2.08	0.53
25:BA:1287:A:H5'	39:BQ:104:ARG:HG3	1.90	0.53
25:BA:134:C:H2'	25:BA:135:G:H5'	1.89	0.53
25:BA:1372:U:C6	25:BA:1372:U:C3'	2.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1407:C:OP2	25:BA:1407:C:C6	2.60	0.53
25:BA:1424:G:O2'	25:BA:1425:G:H5'	2.08	0.53
25:BA:14:A:N7	25:BA:15:G:C8	2.77	0.53
25:BA:1665:A:C2'	25:BA:1666:G:O4'	2.53	0.53
25:BA:1754:C:C2'	25:BA:1755:A:O4'	2.49	0.53
25:BA:1870:C:C2'	25:BA:1870:C:O2	2.57	0.53
25:BA:2016:U:O2'	25:BA:2017:U:H5'	2.08	0.53
25:BA:2056:G:C2	25:BA:2057:A:C4	2.96	0.53
25:BA:2056:G:C2'	25:BA:2057:A:H5'	2.37	0.53
25:BA:2168:G:C2'	25:BA:2170:A:OP2	2.52	0.53
25:BA:2197:U:O2'	25:BA:2198:A:N3	2.40	0.53
25:BA:2285:C:C4'	25:BA:2288:A:C6	2.91	0.53
25:BA:2298:A:H4'	25:BA:2322:A:O2'	2.08	0.53
25:BA:2357:U:O5'	25:BA:2357:U:H6	1.91	0.53
25:BA:2432:A:C5'	25:BA:2433:A:OP2	2.56	0.53
25:BA:1128:A:N7	25:BA:2518:A:N7	2.56	0.53
25:BA:2626:C:O2'	25:BA:2627:G:H5'	2.08	0.53
25:BA:2690:C:H2'	25:BA:2691:C:OP2	2.08	0.53
25:BA:2719:G:O5'	25:BA:2719:G:H8	1.91	0.53
25:BA:2526:G:OP1	25:BA:2742:C:O2'	2.26	0.53
25:BA:2781:A:C5	25:BA:2782:G:H1'	2.43	0.53
25:BA:2805:G:C8	25:BA:2807:G:O4'	2.61	0.53
25:BA:308:G:C2	25:BA:329:G:N2	2.76	0.53
25:BA:363(D):G:C2	25:BA:363(E):U:H1'	2.43	0.53
25:BA:390:A:C5'	25:BA:391:G:OP1	2.44	0.53
25:BA:465:G:N3	25:BA:683:C:O2'	2.40	0.53
25:BA:466:A:N1	25:BA:796:C:O4'	2.41	0.53
25:BA:749:C:C5	25:BA:750:A:N7	2.77	0.53
25:BA:831:G:O6	25:BA:832:G:C5	2.61	0.53
25:BA:880:G:C2'	25:BA:881:G:H4'	2.28	0.53
25:BA:89:G:H3'	25:BA:90:U:H5''	1.89	0.53
25:BA:954:G:N2	25:BA:964:C:H1'	2.24	0.53
25:BA:972:G:P	25:BA:974(A):C:H5'	2.48	0.53
26:BB:14:U:H1'	26:BB:107:U:O4'	2.08	0.53
27:BC:10:LEU:HD11	27:BC:220:PRO:HG2	1.90	0.53
27:BC:62:VAL:HG13	27:BC:62:VAL:O	2.08	0.53
28:BD:40:THR:HG22	28:BD:43:ARG:CZ	2.38	0.53
28:BD:60:ARG:CA	28:BD:62:TYR:CE2	2.92	0.53
29:BE:44:TYR:O	29:BE:45:THR:CB	2.57	0.53
29:BE:58:ARG:HB2	29:BE:58:ARG:HH21	1.72	0.53
25:BA:2787:C:H1'	29:BE:61:ARG:CG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2636:U:O5'	29:BE:79:ARG:HB3	2.08	0.53
30:BF:184:TYR:O	30:BF:187:VAL:HG22	2.07	0.53
30:BF:72:ARG:O	30:BF:74:ARG:N	2.38	0.53
31:BG:174:GLU:OE2	31:BG:175:LEU:HG	2.09	0.53
31:BG:26:GLN:HE22	31:BG:31:VAL:CG1	2.21	0.53
32:BH:136:ILE:CG1	32:BH:137:ASP:N	2.69	0.53
32:BH:156:ALA:O	32:BH:172:LYS:HE2	2.08	0.53
32:BH:163:TYR:HD1	32:BH:163:TYR:N	2.07	0.53
32:BH:83:TYR:HD1	32:BH:138:LYS:HB2	1.73	0.53
25:BA:2093:G:C1'	33:BK:29:TYR:CE2	2.90	0.53
36:BN:112:MET:HA	36:BN:115:VAL:HG21	1.90	0.53
36:BN:25:LEU:HB2	36:BN:39:ILE:HA	1.90	0.53
36:BN:23:ARG:HD2	36:BN:40:VAL:HG11	1.90	0.53
36:BN:18:LYS:CB	36:BN:45:GLU:OE2	2.56	0.53
36:BN:43:VAL:CG1	36:BN:54:GLU:CA	2.77	0.53
36:BN:64:ARG:HE	36:BN:65:THR:C	2.11	0.53
36:BN:64:ARG:NH2	36:BN:67:LYS:C	2.62	0.53
36:BN:79:PHE:CD1	41:BS:75:ILE:HD11	2.43	0.53
37:BO:122:PRO:HB2	37:BO:138:LEU:N	2.23	0.53
37:BO:91:PHE:H	37:BO:125:VAL:HG13	1.71	0.53
42:BT:14:HIS:CE1	42:BT:36:ARG:HH12	2.25	0.53
42:BT:82:GLY:CA	42:BT:117:GLN:HG2	2.37	0.53
42:BT:93:LYS:HZ3	42:BT:93:LYS:N	2.06	0.53
44:BV:11:ARG:HB3	44:BV:11:ARG:CZ	2.38	0.53
45:BW:12:VAL:HA	45:BW:29:TRP:CD1	2.43	0.53
45:BW:33:LYS:HB3	45:BW:33:LYS:HZ1	1.73	0.53
45:BW:26:TYR:CD2	45:BW:89:ILE:HG21	2.43	0.53
45:BW:8:ILE:HG13	45:BW:9:LEU:HD11	1.90	0.53
46:BX:2:ARG:HE	46:BX:3:VAL:CB	2.21	0.53
46:BX:46:LYS:HD3	46:BX:57:GLN:O	2.08	0.53
46:BX:83:THR:HG21	46:BX:84:ARG:HH21	1.73	0.53
47:BY:76:LEU:HG	47:BY:83:PRO:CB	2.30	0.53
48:BZ:63:VAL:HG23	48:BZ:81:VAL:CG1	2.37	0.53
33:BK:109:ILE:CG2	33:BK:113:ARG:NE	2.71	0.53
33:BK:66:GLU:O	33:BK:69:LYS:HG2	2.09	0.53
25:BA:1058:G:H21	34:BL:116:ASN:HD21	1.55	0.53
34:BL:106:GLU:CA	34:BL:109:LYS:HE3	2.37	0.53
34:BL:60:TYR:CD2	34:BL:67:PHE:HE1	2.27	0.53
34:BL:77:LEU:HB2	34:BL:111:LYS:HZ1	1.72	0.53
51:B3:14:ILE:C	51:B3:14:ILE:HD13	2.28	0.53
26:BB:88:C:OP1	26:BB:88:C:C5	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:129:GLU:OE1	10:AJ:130:GLY:N	2.41	0.53
5:AE:35:GLU:O	5:AE:36:ARG:CD	2.56	0.53
1:AA:78:G:O2'	1:AA:79:G:H5'	2.07	0.53
1:AA:1257:U:C2'	1:AA:1258:G:OP2	2.57	0.53
1:AA:1286:A:C8	1:AA:1286:A:H3'	2.44	0.53
1:AA:1321:C:C5'	1:AA:1321:C:H6	2.21	0.53
1:AA:1357:A:C8	1:AA:1358:U:C5	2.97	0.53
1:AA:1374:A:C5	1:AA:1375:A:N7	2.77	0.53
1:AA:1375:A:C2	1:AA:1376:U:N3	2.76	0.53
1:AA:1415:G:O2'	1:AA:1416:G:H5'	2.08	0.53
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.08	0.53
1:AA:179:A:H3'	1:AA:180:U:H6	1.73	0.53
1:AA:20:U:H5'	1:AA:572:A:H61	1.72	0.53
1:AA:20:U:H6	1:AA:572:A:C2	2.26	0.53
1:AA:226:G:O2'	1:AA:227:G:C5'	2.55	0.53
1:AA:366:C:HO2'	1:AA:367:U:P	2.30	0.53
1:AA:451:A:C4	1:AA:452:A:C6	2.97	0.53
1:AA:498:A:H4'	1:AA:500:G:H5'	1.91	0.53
1:AA:520:A:N6	1:AA:529:G:C2	2.76	0.53
1:AA:664:G:P	21:AU:64:ARG:HH21	2.31	0.53
1:AA:673:G:H2'	1:AA:674:G:N7	2.22	0.53
1:AA:697:U:H3'	1:AA:698:G:H8	1.72	0.53
1:AA:735:C:H2'	1:AA:736:C:O5'	2.09	0.53
1:AA:777:A:C8	1:AA:778:G:N7	2.76	0.53
1:AA:812:C:O2	1:AA:813:U:C5	2.60	0.53
1:AA:970:C:N3	16:AP:126:LYS:NZ	2.52	0.53
1:AA:977:A:N6	1:AA:1224:G:O5'	2.41	0.53
3:AD:32:C:H6	3:AD:32:C:O5'	1.91	0.53
1:AA:1101:A:C2	5:AE:100:GLY:HA3	2.43	0.53
5:AE:82:ARG:N	5:AE:92:TYR:HE1	2.05	0.53
6:AF:172:ARG:HH12	6:AF:174:PRO:HG3	1.72	0.53
6:AF:49:SER:C	6:AF:51:GLY:H	2.11	0.53
7:AG:141:ARG:O	7:AG:143:GLY:N	2.41	0.53
7:AG:143:GLY:HA2	7:AG:185:PHE:CB	2.38	0.53
7:AG:97:LEU:O	7:AG:100:ARG:HG3	2.09	0.53
8:AH:127:ASN:OD1	8:AH:127:ASN:C	2.47	0.53
8:AH:18:ARG:HB2	8:AH:26:PHE:HA	1.90	0.53
8:AH:71:LEU:CD2	8:AH:73:ASN:N	2.71	0.53
12:AL:96:LEU:CD1	12:AL:101:PHE:HE1	2.21	0.53
13:AM:59:SER:O	13:AM:60:ARG:O	2.26	0.53
13:AM:7:LYS:HG2	13:AM:71:LEU:CD1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:20:THR:CG2	16:AP:26:GLY:HA2	2.38	0.53
16:AP:60:VAL:HG13	16:AP:64:TRP:CB	2.36	0.53
18:AR:67:LEU:O	18:AR:68:ARG:C	2.46	0.53
18:AR:75:PRO:O	18:AR:78:TYR:CB	2.51	0.53
18:AR:81:LEU:O	18:AR:82:ILE:C	2.47	0.53
19:AS:6:LEU:CA	19:AS:18:ARG:O	2.52	0.53
19:AS:6:LEU:N	19:AS:6:LEU:CD1	2.63	0.53
19:AS:9:PHE:CD2	19:AS:9:PHE:N	2.75	0.53
20:AT:27:PHE:O	20:AT:36:ILE:CD1	2.55	0.53
21:AU:73:ALA:C	21:AU:79:LEU:HD11	2.28	0.53
1:AA:986:A:H4'	22:AV:55:LYS:HG3	1.89	0.53
22:AV:70:LYS:O	22:AV:71:LEU:C	2.45	0.53
23:AW:33:ILE:HD11	23:AW:66:ALA:HB2	1.90	0.53
23:AW:87:LYS:O	23:AW:88:VAL:C	2.47	0.53
51:B3:3:GLU:O	51:B3:3:GLU:CG	2.46	0.53
51:B3:7:PRO:CD	51:B3:56:VAL:CG1	2.83	0.53
53:B5:17:LYS:NZ	53:B5:49:HIS:C	2.61	0.53
55:B7:29:LYS:HB3	55:B7:34:TRP:CH2	2.43	0.53
55:B7:30:ARG:NH2	55:B7:41:ILE:O	2.41	0.53
25:BA:1022:G:N7	25:BA:1139:G:O6	2.42	0.53
25:BA:1143:A:C2'	25:BA:1144:G:H8	2.21	0.53
25:BA:1173:G:C1'	25:BA:1177:A:H61	2.14	0.53
25:BA:1199:U:C2	25:BA:1200:C:C5	2.96	0.53
25:BA:1202:C:N4	25:BA:1203:G:C4	2.75	0.53
25:BA:1278:A:OP1	39:BQ:36:THR:HG22	2.07	0.53
25:BA:1372:U:C4	25:BA:1373:A:N7	2.75	0.53
25:BA:1379:A:P	54:B6:10:ARG:HH22	2.31	0.53
25:BA:1491:G:H3'	25:BA:1492:G:C4'	2.35	0.53
25:BA:1557:C:H3'	25:BA:1558:A:C5'	2.38	0.53
25:BA:1617:C:H5'	25:BA:1618:A:OP2	2.08	0.53
25:BA:1633:G:N7	25:BA:1635:G:O6	2.40	0.53
25:BA:1649:G:H2'	25:BA:1650:G:H8	1.72	0.53
25:BA:1725:G:N3	25:BA:1725:G:H2'	2.23	0.53
25:BA:1893:C:C2	25:BA:1894:C:C6	2.96	0.53
25:BA:1907:G:C6	25:BA:1924:C:N3	2.76	0.53
25:BA:1967:C:HO2'	25:BA:1968:G:P	2.31	0.53
25:BA:1993:U:N3	25:BA:1994:C:C5	2.76	0.53
25:BA:2046:G:C5'	52:B4:19:ARG:HA	2.39	0.53
25:BA:2217:G:C2	25:BA:2218:G:C8	2.97	0.53
25:BA:2323:G:N2	25:BA:2324:C:N3	2.56	0.53
25:BA:2639:A:H2'	25:BA:2640:G:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2734:A:N6	25:BA:2770:G:H1'	2.22	0.53
25:BA:2819:G:C2'	25:BA:2821:A:H62	2.19	0.53
25:BA:2848:G:H21	25:BA:2849:U:H3	1.56	0.53
25:BA:290:G:OP2	25:BA:351:G:N2	2.41	0.53
25:BA:301:G:H2'	25:BA:302:C:C5	2.42	0.53
25:BA:336:C:H2'	25:BA:337:C:O5'	2.09	0.53
25:BA:479:A:N3	25:BA:480:A:N7	2.56	0.53
25:BA:533:G:C2'	25:BA:534:U:O4'	2.54	0.53
25:BA:585:G:H2'	25:BA:586:A:C8	2.43	0.53
25:BA:71:A:H62	25:BA:114:U:C1'	2.17	0.53
25:BA:734:A:N1	25:BA:735:A:C4	2.76	0.53
25:BA:816:C:H2'	25:BA:817:C:H6	1.74	0.53
25:BA:89:G:C4	25:BA:90:U:H5	2.24	0.53
25:BA:933:A:C2'	25:BA:934:G:H5'	2.39	0.53
26:BB:40:U:N3	26:BB:43:C:OP2	2.42	0.53
26:BB:35:U:O4	26:BB:50:G:H1'	2.08	0.53
26:BB:73:A:N7	26:BB:104:A:C5	2.76	0.53
27:BC:89:ALA:HB1	27:BC:154:ARG:N	2.23	0.53
27:BC:216:THR:O	27:BC:217:THR:O	2.27	0.53
27:BC:86:ALA:HB1	27:BC:153:ILE:CD1	2.36	0.53
28:BD:134:ARG:O	28:BD:168:ARG:NH2	2.41	0.53
28:BD:202:LYS:CD	28:BD:202:LYS:H	2.22	0.53
28:BD:20:ASP:O	28:BD:21:PHE:CB	2.57	0.53
28:BD:234:GLY:H	28:BD:241:PRO:CB	2.21	0.53
28:BD:243:GLY:O	28:BD:244:ARG:HG3	2.09	0.53
29:BE:60:ASN:HA	29:BE:63:LEU:CG	2.38	0.53
25:BA:2810:A:O2'	29:BE:61:ARG:NH2	2.41	0.53
31:BG:14:GLU:CD	31:BG:14:GLU:C	2.66	0.53
31:BG:1:MET:C	31:BG:3:LEU:N	2.58	0.53
31:BG:30:GLU:HB3	31:BG:33:ARG:CG	2.35	0.53
32:BH:117:PRO:CB	32:BH:123:PHE:CZ	2.86	0.53
32:BH:73:ALA:CA	32:BH:76:VAL:HG13	2.37	0.53
33:BK:25:TYR:O	33:BK:29:TYR:CB	2.47	0.53
35:BM:17:ASP:O	35:BM:18:ALA:HB3	2.07	0.53
35:BM:6:PRO:CB	35:BM:41:ASP:HB3	2.36	0.53
35:BM:34:LEU:CD1	35:BM:52:VAL:HG11	2.36	0.53
35:BM:74:ARG:CG	35:BM:82:LEU:HD22	2.38	0.53
36:BN:114:ILE:HA	36:BN:117:LEU:HD22	1.90	0.53
36:BN:68:GLU:CD	36:BN:76:ALA:HB3	2.26	0.53
37:BO:72:PRO:HG3	37:BO:110:TYR:CE2	2.44	0.53
25:BA:811:U:C6	37:BO:24:GLY:HA3	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:97:PRO:O	37:BO:98:GLU:C	2.46	0.53
38:BP:52:VAL:O	38:BP:53:ALA:C	2.46	0.53
38:BP:8:LYS:HZ1	38:BP:71:ASP:C	2.11	0.53
39:BQ:20:LEU:C	39:BQ:20:LEU:CD1	2.70	0.53
40:BR:12:PHE:CD1	40:BR:13:ARG:N	2.76	0.53
40:BR:38:GLN:CD	40:BR:40:ILE:CD1	2.77	0.53
41:BS:33:LYS:H	41:BS:87:ASP:HB3	1.74	0.53
41:BS:28:VAL:O	41:BS:52:ILE:HG13	2.08	0.53
41:BS:53:ARG:NH2	41:BS:102:ILE:CA	2.72	0.53
41:BS:64:ARG:CD	41:BS:65:LYS:N	2.43	0.53
42:BT:55:ARG:CG	42:BT:55:ARG:HH11	2.20	0.53
42:BT:53:ARG:O	42:BT:57:PHE:HD1	1.92	0.53
43:BU:17:GLY:CA	43:BU:19:LYS:HZ3	2.13	0.53
43:BU:72:VAL:O	43:BU:73:SER:O	2.27	0.53
44:BV:2:GLU:CG	44:BV:108:GLY:HA2	2.38	0.53
44:BV:28:SER:CA	44:BV:70:TYR:HA	2.38	0.53
44:BV:27:LYS:HB3	44:BV:31:GLU:CD	2.29	0.53
44:BV:58:ALA:O	44:BV:63:ASP:N	2.41	0.53
46:BX:41:GLY:O	46:BX:42:VAL:HG13	2.08	0.53
47:BY:47:VAL:O	47:BY:48:PHE:C	2.46	0.53
47:BY:29:TYR:HB3	47:BY:89:PHE:CE2	2.43	0.53
25:BA:1077:A:OP1	34:BL:93:ARG:N	2.42	0.53
1:AA:1026:G:O6	1:AA:1036:G:C2	2.61	0.53
15:AO:18:VAL:O	15:AO:19:ARG:CB	2.56	0.53
1:AA:115:G:C6	1:AA:313:A:C6	2.96	0.53
1:AA:1169:A:N1	1:AA:1170:A:C2	2.76	0.53
1:AA:1298:C:N4	10:AJ:114:ARG:O	2.42	0.53
1:AA:1495:U:O2	1:AA:1496:C:C6	2.62	0.53
1:AA:1502:A:C5'	1:AA:1503:A:OP2	2.57	0.53
1:AA:274:A:O2'	1:AA:275:G:N9	2.41	0.53
1:AA:313:A:C2'	1:AA:314:C:H6	2.15	0.53
1:AA:337:C:N4	1:AA:338:A:H62	2.06	0.53
1:AA:360:A:N6	1:AA:361:G:C6	2.77	0.53
1:AA:417:C:O2'	1:AA:418:C:H5'	2.08	0.53
1:AA:446:G:O2'	1:AA:447:G:H5'	2.09	0.53
1:AA:529:G:C3'	1:AA:529:G:C8	2.92	0.53
1:AA:627:G:N3	1:AA:628:G:C8	2.77	0.53
1:AA:729:A:C2	1:AA:730:G:C4	2.96	0.53
1:AA:809:G:N3	1:AA:809:G:H2'	2.22	0.53
1:AA:907:A:OP1	1:AA:907:A:H4'	2.09	0.53
1:AA:909:A:C2'	1:AA:910:C:O5'	2.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:48:C:H5'	2:AC:49:G:H5''	1.90	0.53
2:AC:49:G:OP2	2:AC:49:G:H8	1.90	0.53
3:AD:52:G:C4	3:AD:53:G:C8	2.97	0.53
5:AE:103:THR:O	5:AE:104:ASN:CB	2.55	0.53
1:AA:1104:G:C4'	5:AE:111:ARG:HH21	2.19	0.53
5:AE:217:ARG:HA	5:AE:220:ASP:OD2	2.07	0.53
7:AG:101:LEU:O	7:AG:104:VAL:CG2	2.56	0.53
7:AG:187:ARG:HE	7:AG:188:LEU:CD2	2.21	0.53
7:AG:21:LEU:HD13	7:AG:67:ILE:CG2	2.28	0.53
7:AG:31:CYS:O	7:AG:33:MET:N	2.34	0.53
7:AG:94:LEU:CA	7:AG:97:LEU:HD12	2.26	0.53
8:AH:128:PRO:O	8:AH:129:ILE:C	2.46	0.53
9:AI:14:LEU:CD1	9:AI:19:LEU:H	2.21	0.53
11:AK:46:LYS:HE3	11:AK:64:LYS:HA	1.88	0.53
13:AM:8:LEU:CD1	13:AM:94:VAL:HG11	2.31	0.53
14:AN:31:THR:HG22	14:AN:33:THR:HG23	1.91	0.53
1:AA:1227:A:O2'	16:AP:115:LYS:CG	2.56	0.53
18:AR:40:SER:O	18:AR:43:LEU:N	2.41	0.53
20:AT:62:SER:CB	20:AT:72:ARG:HE	2.14	0.53
21:AU:80:PRO:O	21:AU:81:PHE:CD1	2.62	0.53
23:AW:12:ALA:N	23:AW:13:LEU:HD12	2.24	0.53
51:B3:24:THR:O	51:B3:25:TYR:HD2	1.90	0.53
51:B3:31:ILE:HD13	51:B3:31:ILE:H	1.69	0.53
54:B6:39:ARG:O	54:B6:40:TRP:HB2	2.09	0.53
25:BA:120:U:OP1	25:BA:124:G:O6	2.26	0.53
25:BA:1311:G:O3'	25:BA:1312:U:O4'	2.27	0.53
25:BA:1327:C:O2	25:BA:1327:C:H2'	2.07	0.53
25:BA:1351:C:O2	25:BA:1352:U:C6	2.61	0.53
25:BA:1366:A:C2	25:BA:1367:A:C4	2.96	0.53
25:BA:137(A):G:C2	25:BA:142:G:C2	2.96	0.53
25:BA:1395:A:H1'	25:BA:1397:U:N3	2.23	0.53
25:BA:1418:G:N2	25:BA:1580:A:C2	2.77	0.53
25:BA:1614:A:N1	44:BV:87:PRO:HB3	2.24	0.53
25:BA:1708:C:H2'	25:BA:1709:U:H5'	1.89	0.53
25:BA:1730:U:O2'	25:BA:1731:G:C4	2.61	0.53
25:BA:1871:A:C2	25:BA:1872:A:N7	2.77	0.53
25:BA:1906:G:N1	25:BA:1907:G:N7	2.56	0.53
25:BA:1918:A:H3'	25:BA:1919:A:N6	2.23	0.53
25:BA:1965:C:C2'	25:BA:1966:A:C8	2.91	0.53
25:BA:2110:G:H2'	25:BA:2120:G:O5'	2.08	0.53
25:BA:221:A:H2'	25:BA:271(A):C:O2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2517:C:O2'	25:BA:2518:A:C3'	2.52	0.53
25:BA:270(B):A:O2'	25:BA:270(C):C:H3'	2.09	0.53
25:BA:2856:C:C2'	25:BA:2857:G:O5'	2.56	0.53
25:BA:2880:C:H2'	25:BA:2881:C:H6	1.73	0.53
25:BA:323:G:OP2	25:BA:340:A:C2	2.61	0.53
25:BA:325:G:H3'	25:BA:325:G:H8	1.73	0.53
25:BA:325:G:C5	25:BA:326:G:N7	2.76	0.53
25:BA:358:U:O2	25:BA:358:U:C2'	2.56	0.53
25:BA:364:C:C2	25:BA:365:C:C4	2.96	0.53
25:BA:28:A:H1'	25:BA:513:A:C2	2.43	0.53
25:BA:531:C:N3	25:BA:532:A:O2'	2.37	0.53
25:BA:532:A:OP2	25:BA:2021:C:N4	2.42	0.53
25:BA:552:G:C6	25:BA:553:U:C4	2.97	0.53
25:BA:558:G:P	35:BM:111:PRO:HG2	2.48	0.53
25:BA:674:G:C3'	30:BF:74:ARG:HH12	2.21	0.53
25:BA:675:A:O2'	25:BA:676:A:C5'	2.57	0.53
25:BA:709:U:H2'	25:BA:710:G:O4'	2.08	0.53
25:BA:763:G:H5'	28:BD:211:ARG:HH11	1.62	0.53
25:BA:774:A:O2'	25:BA:775:G:O5'	2.23	0.53
26:BB:24:G:H2'	26:BB:56:G:O6	2.09	0.53
26:BB:97:G:C6	26:BB:98:G:N7	2.77	0.53
27:BC:161:ILE:HG12	27:BC:162:GLU:N	2.19	0.53
25:BA:1820:U:H5	28:BD:159:ALA:O	1.92	0.53
28:BD:229:VAL:CG1	28:BD:230:ASP:N	2.72	0.53
25:BA:2227:A:C5'	28:BD:260:ARG:HD2	2.32	0.53
28:BD:5:LYS:CA	28:BD:29:PRO:HD3	2.39	0.53
29:BE:167:VAL:CG2	29:BE:189:PRO:HB3	2.25	0.53
29:BE:11:MET:C	29:BE:21:VAL:HG23	2.29	0.53
30:BF:34:TRP:O	30:BF:37:VAL:HB	2.08	0.53
31:BG:47:LYS:HZ1	31:BG:73:ALA:HB3	1.74	0.53
33:BK:31:LEU:N	33:BK:32:PRO:CD	2.72	0.53
35:BM:17:ASP:N	35:BM:21:LYS:NZ	2.56	0.53
36:BN:47:ILE:O	36:BN:47:ILE:HG12	2.09	0.53
36:BN:56:ASP:N	36:BN:56:ASP:OD1	2.41	0.53
36:BN:99:PHE:CD2	41:BS:74:ARG:NH2	2.77	0.53
38:BP:50:ALA:N	38:BP:124:LYS:NZ	2.57	0.53
25:BA:911:A:C2	38:BP:13:GLN:CG	2.88	0.53
25:BA:2276:G:OP2	38:BP:84:GLY:O	2.26	0.53
25:BA:2881:C:H5'	39:BQ:90:ARG:NH1	2.23	0.53
40:BR:23:ARG:NE	40:BR:41:ASP:HB2	2.24	0.53
40:BR:47:THR:CG2	40:BR:48:LEU:N	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:35:ALA:O	42:BT:38:THR:OG1	2.17	0.53
43:BU:51:VAL:HG12	43:BU:51:VAL:O	2.08	0.53
43:BU:62:LEU:HB2	43:BU:64:HIS:ND1	2.24	0.53
43:BU:64:HIS:ND1	43:BU:96:ILE:CG2	2.69	0.53
44:BV:16:LYS:O	44:BV:17:VAL:C	2.47	0.53
44:BV:17:VAL:HG23	44:BV:18:ARG:N	2.23	0.53
44:BV:76:VAL:HG22	44:BV:77:ASP:N	2.23	0.53
45:BW:50:LYS:NZ	45:BW:87:GLN:CB	2.72	0.53
46:BX:13:VAL:O	46:BX:70:SER:N	2.41	0.53
47:BY:177:PRO:CG	47:BY:178:GLU:H	2.13	0.53
47:BY:17:ALA:HA	47:BY:20:ARG:NE	2.22	0.53
34:BL:104:VAL:HG12	34:BL:105:LEU:N	2.23	0.53
1:AA:77:C:H6	1:AA:77:C:O5'	1.91	0.53
13:AM:87:THR:O	13:AM:87:THR:HG22	2.08	0.53
28:BD:274:ARG:O	28:BD:274:ARG:HG3	2.07	0.53
1:AA:1065:U:O2'	1:AA:1066:C:P	2.67	0.53
1:AA:1157:A:H1'	1:AA:1181:G:C2	2.43	0.53
1:AA:1157:A:N9	1:AA:1181:G:N2	2.49	0.53
1:AA:126:G:N2	1:AA:127:G:H1'	2.24	0.53
1:AA:1298:C:H4'	1:AA:1299:A:N3	2.24	0.53
1:AA:1331:G:HO2'	1:AA:1332:A:P	2.32	0.53
1:AA:1399:C:N3	1:AA:1401:G:C2	2.76	0.53
1:AA:1497:G:HO2'	1:AA:1519:A:H2	1.55	0.53
1:AA:1507:A:N1	1:AA:1530:G:N9	2.56	0.53
1:AA:373:A:N1	1:AA:482:A:N6	2.57	0.53
1:AA:428:G:H4'	1:AA:429:U:O5'	2.09	0.53
1:AA:491:G:C2'	1:AA:492:G:H5'	2.39	0.53
1:AA:50:A:C6	1:AA:361:G:O4'	2.61	0.53
1:AA:61:G:C5	1:AA:62:U:C4	2.97	0.53
1:AA:632:A:C2'	1:AA:633:G:H5'	2.38	0.53
1:AA:646:U:C2	1:AA:647:C:C5	2.96	0.53
1:AA:665:A:C5	1:AA:733:A:N1	2.77	0.53
1:AA:684:A:H1'	14:AN:39:PRO:HD2	1.91	0.53
1:AA:901:A:N3	1:AA:902:G:H1'	2.17	0.53
3:AD:57:G:H8	3:AD:57:G:O5'	1.91	0.53
5:AE:21:ARG:CD	5:AE:21:ARG:H	2.22	0.53
5:AE:95:GLN:OE1	5:AE:95:GLN:CA	2.57	0.53
6:AF:151:VAL:CG2	6:AF:200:ALA:HA	2.34	0.53
6:AF:29:TYR:CD2	6:AF:29:TYR:C	2.82	0.53
6:AF:40:ARG:HA	6:AF:43:LEU:CD1	2.34	0.53
7:AG:206:PHE:CD2	7:AG:207:TYR:N	2.75	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:15:ASP:OD2	9:AI:18:GLN:NE2	2.40	0.53
9:AI:66:GLU:HA	9:AI:67:MET:HE3	1.90	0.53
10:AJ:115:ARG:CB	10:AJ:118:VAL:HG23	2.16	0.53
11:AK:40:ALA:HB2	11:AK:45:ILE:HG23	1.90	0.53
1:AA:1347:G:N7	12:AL:107:ARG:NH1	2.56	0.53
12:AL:15:ALA:HB1	12:AL:77:ILE:CA	2.39	0.53
12:AL:2:GLU:HA	12:AL:21:PRO:HD2	1.91	0.53
13:AM:5:ARG:HG2	13:AM:5:ARG:HH11	1.74	0.53
15:AO:70:ILE:HG21	15:AO:77:LEU:CD1	2.39	0.53
18:AR:11:VAL:O	18:AR:14:GLU:HB2	2.09	0.53
18:AR:54:ARG:HH21	18:AR:58:MET:HE3	1.71	0.53
18:AR:71:GLN:N	18:AR:78:TYR:CD1	2.76	0.53
19:AS:20:VAL:HG13	19:AS:21:VAL:H	1.72	0.53
19:AS:44:THR:HG23	19:AS:45:THR:HG23	1.90	0.53
20:AT:29:HIS:HA	20:AT:36:ILE:HD12	1.89	0.53
23:AW:62:LEU:CA	23:AW:65:LYS:HG2	2.38	0.53
49:B1:23:LYS:NZ	49:B1:55:LEU:CD2	2.71	0.53
49:B1:58:VAL:O	49:B1:59:LEU:C	2.45	0.53
50:B2:23:LEU:HA	50:B2:28:LEU:CD1	2.38	0.53
50:B2:26:LEU:H	50:B2:26:LEU:HD22	1.74	0.53
51:B3:41:PRO:O	51:B3:58:ARG:NH1	2.42	0.53
25:BA:2815:C:H4'	52:B4:42:PRO:CG	2.39	0.53
52:B4:6:VAL:HG22	52:B4:7:PRO:CD	2.38	0.53
56:B8:19:ARG:HH12	56:B8:22:ARG:NH1	2.01	0.53
25:BA:1027:A:N6	25:BA:1126:A:N3	2.57	0.53
25:BA:1131:G:N2	35:BM:72:TYR:CZ	2.77	0.53
25:BA:1204:A:P	37:BO:6:LEU:HD12	2.48	0.53
25:BA:1209:G:H4'	25:BA:1212:G:H4'	1.91	0.53
25:BA:1242:A:OP1	25:BA:1242:A:O4'	2.26	0.53
25:BA:1246:A:OP2	37:BO:15:ARG:CZ	2.57	0.53
25:BA:1281:G:H2'	25:BA:1282:U:H6	1.73	0.53
25:BA:1309:G:H2'	25:BA:1310:G:C5'	2.38	0.53
25:BA:1401:G:C6	25:BA:1402:C:N4	2.77	0.53
25:BA:1422:G:C2	25:BA:1423:G:N7	2.77	0.53
25:BA:1426:G:H3'	25:BA:1427:A:C8	2.44	0.53
25:BA:1444:G:N2	25:BA:1548:C:C2	2.77	0.53
25:BA:1408:C:C2	25:BA:1595:G:N2	2.77	0.53
25:BA:1609:A:N3	25:BA:1609:A:C3'	2.71	0.53
25:BA:162:U:H5'	25:BA:171:G:C6	2.44	0.53
25:BA:1814:G:C2'	25:BA:1815:A:H8	2.22	0.53
25:BA:182:A:H2'	25:BA:183:C:C6	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1937:A:O2'	25:BA:1938:A:P	2.67	0.53
25:BA:1951:U:C2	25:BA:1953:A:H5'	2.43	0.53
25:BA:1955:U:O2'	25:BA:1956:U:P	2.65	0.53
25:BA:2227:A:N1	25:BA:2228:G:C5	2.76	0.53
25:BA:2393:A:OP2	55:B7:32:LEU:HD11	2.09	0.53
25:BA:2497:A:O2'	25:BA:2498:C:OP2	2.27	0.53
25:BA:2563:U:O2	25:BA:2566:A:C8	2.62	0.53
25:BA:2579:C:H6	25:BA:2579:C:C5'	2.21	0.53
25:BA:1672:C:N3	25:BA:2582:G:O4'	2.42	0.53
25:BA:2654:A:H1'	25:BA:2656:U:C4	2.44	0.53
25:BA:268:C:C4	25:BA:269:U:C5	2.96	0.53
25:BA:2738:A:H2'	25:BA:2739:U:O5'	2.07	0.53
25:BA:2746:U:O4	25:BA:2756:U:C4	2.59	0.53
25:BA:2801:A:P	25:BA:2802:G:OP1	2.66	0.53
25:BA:2841:C:C2	25:BA:2842:G:N7	2.77	0.53
25:BA:310:A:OP1	46:BX:16:ALA:HB1	2.08	0.53
25:BA:36:G:N2	25:BA:450:G:O2'	2.40	0.53
25:BA:387:U:O3'	51:B3:23:GLU:OE2	2.27	0.53
25:BA:501:A:O5'	25:BA:501:A:H8	1.91	0.53
25:BA:553:U:C4	25:BA:554:U:C4	2.96	0.53
25:BA:666:G:H2'	25:BA:667:U:C6	2.44	0.53
25:BA:722:A:H2'	25:BA:723:G:H8	1.73	0.53
25:BA:60:G:N2	25:BA:74:A:H4'	2.11	0.53
25:BA:815:C:C2'	25:BA:816:C:C5'	2.85	0.53
25:BA:826:U:OP1	25:BA:2429:G:OP1	2.26	0.53
25:BA:82:G:H2'	25:BA:83:G:C5	2.44	0.53
25:BA:975:G:N2	25:BA:1156:A:C6	2.75	0.53
26:BB:100:G:C2'	26:BB:101:A:C8	2.74	0.53
26:BB:46:A:C8	26:BB:47:C:C4	2.97	0.53
26:BB:97:G:C5	26:BB:98:G:N7	2.76	0.53
27:BC:127:LEU:HA	27:BC:130:ILE:HD13	1.91	0.53
27:BC:212:VAL:HG12	27:BC:212:VAL:O	2.08	0.53
28:BD:125:ILE:HG21	28:BD:137:PRO:HG3	1.90	0.53
28:BD:244:ARG:CD	28:BD:252:TRP:CD1	2.91	0.53
28:BD:75:ILE:HG22	28:BD:75:ILE:O	2.09	0.53
29:BE:13:ARG:HD2	29:BE:13:ARG:C	2.29	0.53
31:BG:120:LEU:HD22	31:BG:181:ARG:CB	2.39	0.53
31:BG:19:LEU:H	31:BG:19:LEU:CD1	2.21	0.53
31:BG:25:TYR:O	31:BG:27:ASN:N	2.42	0.53
32:BH:69:ARG:CG	32:BH:70:THR:N	2.70	0.53
33:BK:4:ILE:C	33:BK:5:LEU:HD23	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:10:GLU:C	35:BM:12:ARG:HH21	2.11	0.53
36:BN:106:LEU:HD12	36:BN:106:LEU:C	2.29	0.53
37:BO:70:GLN:HB2	37:BO:110:TYR:CE2	2.43	0.53
37:BO:135:LEU:CD1	37:BO:135:LEU:N	2.70	0.53
38:BP:25:ASP:HB3	38:BP:102:VAL:CG1	2.35	0.53
38:BP:120:ILE:O	38:BP:121:ALA:C	2.46	0.53
38:BP:46:GLN:HG2	38:BP:125:LEU:CD2	2.37	0.53
38:BP:43:THR:HA	38:BP:94:VAL:CB	2.39	0.53
40:BR:95:HIS:CE1	40:BR:96:GLY:H	2.26	0.53
42:BT:102:GLU:O	42:BT:105:VAL:CB	2.57	0.53
42:BT:57:PHE:O	42:BT:59:ARG:N	2.42	0.53
44:BV:64:MET:CB	44:BV:109:GLU:HG3	2.38	0.53
46:BX:18:GLY:O	46:BX:19:LYS:HD3	2.09	0.53
46:BX:29:GLU:HB2	46:BX:32:PRO:O	2.08	0.53
47:BY:42:VAL:C	47:BY:46:LYS:NZ	2.62	0.53
25:BA:2603:G:P	48:BZ:1:MET:SD	3.06	0.53
33:BK:115:ALA:CB	33:BK:129:THR:O	2.52	0.53
34:BL:115:LEU:HD12	34:BL:118:THR:HA	1.90	0.53
1:AA:1442:G:C6	1:AA:1446:A:C6	2.96	0.53
1:AA:434:U:H2'	1:AA:435:C:C6	2.41	0.53
1:AA:210:U:C4'	1:AA:216:G:OP1	2.56	0.53
46:BX:85:VAL:O	46:BX:85:VAL:HG12	2.08	0.53
1:AA:1397:C:N3	4:A1:22:A:C6	2.77	0.53
1:AA:1061:G:O4'	13:AM:56:HIS:HE1	1.92	0.53
1:AA:1173:G:C6	1:AA:1174:G:N7	2.77	0.53
1:AA:1293:G:H2'	1:AA:1294:G:H8	1.74	0.53
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.44	0.53
1:AA:1413:A:N6	1:AA:1488:G:N1	2.56	0.53
1:AA:1427:U:H2'	1:AA:1428:A:H8	1.73	0.53
1:AA:1436:U:H2'	1:AA:1437:C:O4'	2.09	0.53
1:AA:167:G:O2'	1:AA:168:G:H5'	2.08	0.53
1:AA:226:G:C2	1:AA:227:G:N9	2.77	0.53
1:AA:238:G:N2	1:AA:239:U:O2	2.41	0.53
1:AA:377:G:H2'	1:AA:378:G:C8	2.41	0.53
1:AA:489:C:C4	1:AA:490:G:N7	2.77	0.53
1:AA:55:A:H2'	1:AA:56:U:H5'	1.90	0.53
1:AA:593:G:C6	1:AA:594:G:C5	2.96	0.53
1:AA:721:G:H22	1:AA:733:A:N6	2.05	0.53
1:AA:577:G:H4'	1:AA:817:C:OP2	2.09	0.53
1:AA:834:C:N4	1:AA:853:G:C6	2.77	0.53
1:AA:921:U:C4	1:AA:922:G:N7	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:943:U:H2'	1:AA:944:G:C5'	2.38	0.53
1:AA:949:A:C4	1:AA:1233:G:N2	2.77	0.53
1:AA:981:U:H6	1:AA:981:U:O5'	1.90	0.53
3:AD:58:A:C2'	3:AD:61:C:C5	2.92	0.53
5:AE:124:SER:HB3	5:AE:126:GLU:CD	2.29	0.53
5:AE:88:ALA:HB1	5:AE:222:ILE:HD13	1.91	0.53
5:AE:73:THR:HA	5:AE:94:ASN:HA	1.90	0.53
6:AF:10:PHE:O	6:AF:178:LEU:HD13	2.08	0.53
6:AF:30:ARG:HD3	6:AF:30:ARG:N	2.21	0.53
6:AF:43:LEU:CD2	6:AF:44:GLU:HG3	2.37	0.53
6:AF:8:ILE:O	6:AF:11:ARG:N	2.41	0.53
1:AA:7:G:H21	8:AH:121:LYS:HG3	1.74	0.53
9:AI:72:VAL:O	9:AI:73:ASN:C	2.46	0.53
10:AJ:96:GLN:O	10:AJ:100:ALA:HB2	2.08	0.53
10:AJ:21:VAL:O	10:AJ:24:THR:HB	2.08	0.53
1:AA:826:C:O4'	11:AK:12:ARG:HB3	2.09	0.53
11:AK:98:LYS:HZ2	11:AK:98:LYS:C	2.11	0.53
13:AM:23:ILE:HG22	13:AM:72:VAL:HG11	1.91	0.53
13:AM:35:SER:O	13:AM:36:GLY:O	2.26	0.53
14:AN:104:GLN:OE1	14:AN:106:LYS:N	2.42	0.53
1:AA:529:G:C6	15:AO:49:ASN:HB3	2.44	0.53
15:AO:52:LEU:HD23	15:AO:52:LEU:N	2.23	0.53
15:AO:60:LEU:HD11	15:AO:64:TYR:HD2	1.73	0.53
16:AP:22:ILE:HB	16:AP:25:ILE:CG1	2.39	0.53
16:AP:14:ARG:N	16:AP:44:ARG:CD	2.72	0.53
17:AQ:37:PHE:HB2	17:AQ:44:LEU:HD12	1.91	0.53
19:AS:72:ARG:C	19:AS:72:ARG:HD3	2.29	0.53
1:AA:1320:C:H5	22:AV:37:ARG:CZ	2.22	0.53
1:AA:1243:C:OP2	24:AX:10:ARG:HD2	2.08	0.53
49:B1:34:ALA:O	49:B1:35:SER:HB3	2.09	0.53
50:B2:11:SER:O	50:B2:15:TYR:CD2	2.62	0.53
52:B4:11:THR:OG1	52:B4:11:THR:O	2.27	0.53
39:BQ:99:LYS:CG	52:B4:43:HIS:CE1	2.86	0.53
53:B5:33:LYS:C	53:B5:33:LYS:HD2	2.29	0.53
54:B6:13:ALA:O	54:B6:16:HIS:O	2.26	0.53
55:B7:54:GLU:N	55:B7:56:GLU:OE2	2.41	0.53
25:BA:1106:G:N2	25:BA:1107:G:C2	2.77	0.53
25:BA:1128:A:N1	25:BA:1129:A:N1	2.56	0.53
25:BA:1185:C:H5'	25:BA:1185:C:H6	1.73	0.53
25:BA:1275:A:C8	25:BA:1296:G:H1'	2.43	0.53
25:BA:1277:G:O2'	25:BA:1278:A:H5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1366:A:C2	25:BA:1367:A:C1'	2.91	0.53
25:BA:1534:G:N2	25:BA:1538:G:C8	2.77	0.53
25:BA:1543:A:OP2	25:BA:1544:C:C5	2.61	0.53
25:BA:154:G:H2'	25:BA:155:C:C6	2.44	0.53
25:BA:1568:G:O2'	25:BA:1569:A:P	2.66	0.53
25:BA:1644:C:H2'	25:BA:1645:G:O5'	2.08	0.53
25:BA:1664:A:H8	25:BA:1664:A:O5'	1.92	0.53
25:BA:1758:G:O2'	25:BA:1759:A:OP1	2.21	0.53
25:BA:1363:C:C2'	25:BA:1809:A:N7	2.71	0.53
25:BA:1907:G:O2'	25:BA:1908:C:H5'	2.09	0.53
25:BA:1993:U:C2	25:BA:1994:C:C5	2.96	0.53
25:BA:2069:G:N1	25:BA:2443:C:C4	2.76	0.53
25:BA:2133:G:N3	25:BA:2133:G:H2'	2.24	0.53
25:BA:2126:A:H61	25:BA:2172:U:H5''	1.72	0.53
25:BA:2228:G:C5'	25:BA:2229:C:OP2	2.57	0.53
25:BA:2256:G:O3'	48:BZ:11:ARG:NH1	2.42	0.53
25:BA:244:A:N6	25:BA:245:G:C2	2.77	0.53
25:BA:2657:A:H3'	25:BA:2657:A:C8	2.44	0.53
25:BA:2746:U:C5	25:BA:2747:G:N7	2.76	0.53
25:BA:2834:G:C6	25:BA:2879:C:C2	2.97	0.53
25:BA:618:G:N7	25:BA:618(A):C:H5	2.05	0.53
25:BA:677:A:C2	25:BA:678:C:C5	2.97	0.53
25:BA:695:G:C6	25:BA:768:G:C6	2.97	0.53
25:BA:783:A:HO2'	25:BA:784:A:H5'	1.72	0.53
25:BA:785:G:N3	25:BA:785:G:H2'	2.24	0.53
25:BA:822:U:C2	25:BA:823:G:C8	2.96	0.53
25:BA:892:G:H2'	25:BA:893:C:C6	2.39	0.53
25:BA:923:C:H5''	25:BA:923:C:C6	2.41	0.53
26:BB:62:C:O2	26:BB:63:G:C8	2.61	0.53
26:BB:70:C:H2'	26:BB:71:C:H6	1.74	0.53
26:BB:80:U:H2'	26:BB:81:G:H8	1.70	0.53
27:BC:115:ALA:CB	27:BC:123:VAL:HG21	2.39	0.53
27:BC:21:THR:HG22	27:BC:225:ASN:ND2	2.17	0.53
28:BD:151:LYS:CB	28:BD:154:LYS:NZ	2.65	0.53
28:BD:53:PHE:O	28:BD:53:PHE:HD2	1.92	0.53
30:BF:165:ARG:HG2	30:BF:166:ALA:N	2.24	0.53
25:BA:1204:A:H61	30:BF:187:VAL:CG2	2.21	0.53
30:BF:41:LEU:CA	30:BF:44:ARG:CZ	2.86	0.53
31:BG:12:TYR:CG	31:BG:13:GLU:N	2.77	0.53
31:BG:55:LYS:HG3	31:BG:148:MET:CG	2.38	0.53
31:BG:174:GLU:CG	31:BG:175:LEU:N	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:19:LEU:HA	31:BG:22:ARG:NE	2.23	0.53
2:AC:19:G:N2	31:BG:82:LEU:CD1	2.69	0.53
32:BH:117:PRO:O	32:BH:118:PRO:O	2.27	0.53
35:BM:57:ALA:HB3	35:BM:124:ALA:HA	1.91	0.53
35:BM:15:LEU:HD12	35:BM:139:GLU:HG3	1.90	0.53
35:BM:24:GLY:O	35:BM:25:ARG:C	2.47	0.53
35:BM:4:TYR:CE1	42:BT:101:ARG:NH1	2.73	0.53
36:BN:11:ALA:C	36:BN:97:ARG:HH22	2.12	0.53
37:BO:74:GLU:HG2	37:BO:101:VAL:O	2.09	0.53
37:BO:114:ILE:HG12	37:BO:130:PHE:CB	2.39	0.53
25:BA:2275:C:O2'	38:BP:84:GLY:O	2.26	0.53
40:BR:90:GLY:C	40:BR:92:TYR:N	2.62	0.53
41:BS:23:ARG:CZ	41:BS:90:GLN:N	2.72	0.53
41:BS:28:VAL:HG11	41:BS:90:GLN:HB2	1.90	0.53
41:BS:11:GLU:HB3	41:BS:59:THR:HG23	1.91	0.53
42:BT:25:TRP:CE3	42:BT:26:GLY:N	2.77	0.53
42:BT:57:PHE:C	42:BT:59:ARG:N	2.58	0.53
42:BT:61:TRP:O	42:BT:63:VAL:N	2.40	0.53
45:BW:68:ARG:CB	45:BW:68:ARG:NH1	2.72	0.53
45:BW:50:LYS:HB2	45:BW:84:ALA:CB	2.39	0.53
47:BY:151:HIS:ND1	47:BY:151:HIS:N	2.56	0.53
47:BY:121:HIS:HD2	47:BY:170:THR:O	1.91	0.53
47:BY:48:PHE:CE2	47:BY:86:VAL:HG11	2.42	0.53
47:BY:49:ARG:O	47:BY:50:GLN:C	2.46	0.53
48:BZ:10:THR:O	48:BZ:11:ARG:CB	2.51	0.53
48:BZ:23:VAL:HG21	48:BZ:44:ARG:HH12	1.74	0.53
47:BY:158:PRO:HB2	47:BY:159:PRO:CD	2.39	0.53
6:AF:164:ARG:HH11	6:AF:164:ARG:HG3	1.74	0.53
26:BB:88:C:O5'	26:BB:88:C:H6	1.92	0.53
1:AA:1030:C:H2'	1:AA:1031:G:C8	2.42	0.53
11:AK:80:ILE:CD1	11:AK:80:ILE:H	2.10	0.53
1:AA:78:G:C6	1:AA:79:G:N7	2.76	0.53
20:AT:101:ARG:N	20:AT:101:ARG:HD2	2.23	0.53
3:AD:12:U:H2'	3:AD:13:C:C6	2.44	0.53
1:AA:1053:G:C5'	1:AA:1054:C:H5'	2.28	0.53
1:AA:122:G:H21	1:AA:123:C:H1'	1.74	0.53
1:AA:23:C:H2'	1:AA:23:C:O2	2.08	0.53
1:AA:266:G:C2'	1:AA:267:C:OP2	2.57	0.53
1:AA:340:U:H2'	1:AA:341:C:C6	2.42	0.53
1:AA:38:G:C2	1:AA:397:A:C2	2.96	0.53
1:AA:443:C:H2'	1:AA:444:C:H6	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:579:G:H2'	1:AA:580:U:H6	1.74	0.53
2:AC:67:C:H2'	2:AC:68:C:H6	1.74	0.53
5:AE:15:VAL:HG22	5:AE:209:ARG:CZ	2.37	0.53
5:AE:177:ALA:O	5:AE:178:ARG:C	2.47	0.53
5:AE:78:GLN:HE22	5:AE:96:ARG:HH12	1.54	0.53
1:AA:1055:A:C2	6:AF:156:ARG:HD3	2.43	0.53
6:AF:156:ARG:CB	6:AF:196:LEU:HD13	2.35	0.53
7:AG:154:ASN:ND2	7:AG:155:LEU:CD2	2.72	0.53
7:AG:24:GLU:C	7:AG:24:GLU:CD	2.67	0.53
9:AI:27:GLN:HA	9:AI:30:LEU:HD12	1.90	0.53
10:AJ:11:GLN:CD	10:AJ:12:LEU:N	2.62	0.53
10:AJ:15:ASP:OD1	10:AJ:18:TYR:N	2.41	0.53
10:AJ:37:ASN:O	10:AJ:40:ALA:HB3	2.09	0.53
10:AJ:85:TYR:HD1	10:AJ:154:TYR:HE1	1.55	0.53
11:AK:104:ARG:O	11:AK:107:LEU:CD2	2.55	0.53
11:AK:68:ARG:O	11:AK:69:ARG:HB3	2.08	0.53
12:AL:102:LEU:O	12:AL:103:THR:CB	2.54	0.53
12:AL:78:LYS:HA	12:AL:81:ILE:CD1	2.39	0.53
13:AM:34:VAL:CG1	13:AM:35:SER:N	2.57	0.53
16:AP:44:ARG:HB3	16:AP:47:ASP:OD2	2.08	0.53
17:AQ:13:THR:O	17:AQ:13:THR:HG22	2.09	0.53
18:AR:54:ARG:NH2	18:AR:58:MET:HE3	2.23	0.53
21:AU:50:ILE:O	21:AU:51:LEU:C	2.47	0.53
21:AU:78:LEU:N	21:AU:78:LEU:HD23	2.24	0.53
49:B1:12:SER:HB3	49:B1:13:PRO:CD	2.39	0.53
49:B1:36:ILE:O	49:B1:38:GLN:NE2	2.36	0.53
51:B3:11:PRO:HA	51:B3:40:HIS:CD2	2.42	0.53
52:B4:25:LEU:O	52:B4:26:THR:HG22	2.09	0.53
25:BA:179:G:OP1	54:B6:32:LYS:CE	2.55	0.53
54:B6:34:ARG:HH21	54:B6:42:LEU:CD2	2.22	0.53
55:B7:13:ARG:HD2	55:B7:24:ALA:HB1	1.91	0.53
55:B7:28:GLY:O	55:B7:29:LYS:CG	2.52	0.53
55:B7:6:THR:CG2	55:B7:9:GLY:HA3	2.37	0.53
25:BA:1005:C:O2	25:BA:1006:C:C5	2.62	0.53
25:BA:1137:G:N7	25:BA:1138:G:C8	2.77	0.53
25:BA:53:A:H62	25:BA:117:G:N2	2.07	0.53
25:BA:973:A:O4'	25:BA:1188:U:C4	2.61	0.53
25:BA:1203:G:N1	25:BA:1241:A:H1'	2.16	0.53
25:BA:1319:G:C2	25:BA:1320:C:C5	2.96	0.53
25:BA:1539:G:H2'	25:BA:1540:G:O5'	2.09	0.53
25:BA:1550:C:H2'	25:BA:1551:C:C6	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1438:U:C2	25:BA:1553:A:N6	2.77	0.53
25:BA:1562:A:H2'	25:BA:1563:G:H8	1.74	0.53
25:BA:1651:G:H5''	25:BA:1652:A:OP1	2.08	0.53
25:BA:1702:G:N1	25:BA:1703:G:C5	2.77	0.53
25:BA:1773:A:C2	25:BA:1829:A:C4	2.96	0.53
25:BA:1914:C:C2	25:BA:1915:U:C5	2.93	0.53
25:BA:1926:U:O2	25:BA:1928:A:H8	1.91	0.53
25:BA:1988:C:O2'	25:BA:1989:G:C5'	2.56	0.53
25:BA:2081:C:C2	25:BA:2082:A:C8	2.97	0.53
25:BA:2132:U:O2	25:BA:2132:U:C2'	2.56	0.53
25:BA:2173:A:H2'	25:BA:2174:C:O4'	2.09	0.53
25:BA:2228:G:N7	25:BA:2229:C:C6	2.76	0.53
25:BA:2309:A:H3'	25:BA:2310:A:C8	2.44	0.53
25:BA:2355:C:OP1	48:BZ:25:ARG:NH2	2.31	0.53
25:BA:260:G:N2	25:BA:261:G:H1'	2.23	0.53
25:BA:2626:C:H6	25:BA:2626:C:H3'	1.73	0.53
25:BA:262:A:C2'	25:BA:263:C:C5'	2.87	0.53
25:BA:2645:G:O3'	25:BA:2732:G:O2'	2.25	0.53
25:BA:2714:G:C5'	25:BA:2714:G:H8	2.19	0.53
25:BA:2754:U:C6	25:BA:2754:U:C3'	2.91	0.53
25:BA:2769:C:C2'	25:BA:2770:G:O5'	2.56	0.53
25:BA:2787:C:O3'	29:BE:64:LYS:NZ	2.41	0.53
25:BA:2814:C:H2'	25:BA:2815:C:C6	2.43	0.53
25:BA:2839:G:C2	25:BA:2840:C:C2	2.96	0.53
25:BA:312:G:O4'	25:BA:312:G:P	2.67	0.53
25:BA:319:C:C2	25:BA:320:A:N7	2.76	0.53
25:BA:339:U:C6	25:BA:340:A:N7	2.76	0.53
25:BA:519:U:OP1	44:BV:75:TYR:CE1	2.62	0.53
25:BA:530:G:H22	25:BA:2021:C:C3'	1.94	0.53
25:BA:636:G:N2	37:BO:75:ILE:CG2	2.61	0.53
25:BA:658:C:O2	25:BA:659:C:C6	2.61	0.53
25:BA:685:A:N9	25:BA:774:A:N6	2.57	0.53
25:BA:686:G:N7	54:B6:12:ARG:HB2	2.23	0.53
25:BA:780:G:H8	25:BA:780:G:O5'	1.90	0.53
25:BA:861:A:C6	25:BA:917:A:N6	2.76	0.53
25:BA:863:A:C4'	26:BB:100:G:H21	2.18	0.53
26:BB:24:G:C2	26:BB:56:G:C2	2.97	0.53
26:BB:77:U:C5	26:BB:98:G:N2	2.77	0.53
27:BC:127:LEU:HB3	27:BC:131:LEU:CG	2.39	0.53
27:BC:103:ILE:CD1	27:BC:127:LEU:HD11	2.37	0.53
27:BC:116:THR:HG23	27:BC:149:ILE:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:43:VAL:HG23	27:BC:175:VAL:CG2	2.39	0.53
27:BC:56:GLN:HE21	27:BC:201:PRO:HB2	1.73	0.53
27:BC:61:THR:HG21	27:BC:160:ARG:HH21	1.73	0.53
28:BD:183:ARG:CB	28:BD:268:ARG:HB2	2.37	0.53
25:BA:1825:A:OP1	28:BD:247:ALA:HB2	2.09	0.53
29:BE:51:PHE:HE1	29:BE:75:VAL:H	1.55	0.53
29:BE:97:LYS:CE	29:BE:98:PRO:O	2.57	0.53
30:BF:153:SER:H	30:BF:190:GLU:HB2	1.73	0.53
31:BG:125:PHE:HD2	31:BG:129:GLY:N	2.07	0.53
31:BG:131:TYR:HE1	31:BG:157:ILE:O	1.87	0.53
31:BG:37:VAL:HG13	31:BG:158:ALA:O	2.08	0.53
32:BH:69:ARG:HG3	32:BH:69:ARG:HH21	1.74	0.53
32:BH:69:ARG:HG3	32:BH:70:THR:HG23	1.91	0.53
33:BK:24:GLY:CA	33:BK:27:ARG:NH1	2.72	0.53
35:BM:19:GLU:HG2	35:BM:20:GLY:N	2.22	0.53
35:BM:43:THR:CG2	35:BM:44:PRO:HD2	2.39	0.53
36:BN:11:ALA:O	36:BN:12:ASP:OD1	2.27	0.53
36:BN:48:PRO:O	36:BN:49:ARG:C	2.48	0.53
37:BO:55:ARG:CG	37:BO:55:ARG:HH21	2.21	0.53
37:BO:65:ARG:NH1	37:BO:67:MET:N	2.53	0.53
38:BP:28:ALA:C	38:BP:104:PHE:CD2	2.81	0.53
38:BP:16:ARG:O	38:BP:17:LEU:HD12	2.09	0.53
38:BP:59:ARG:HA	38:BP:60:ARG:CZ	2.38	0.53
38:BP:77:LYS:HD2	38:BP:77:LYS:N	2.23	0.53
38:BP:75:THR:HG23	38:BP:91:GLU:OE1	2.07	0.53
39:BQ:105:ARG:CA	39:BQ:105:ARG:NH1	2.69	0.53
39:BQ:56:LYS:C	39:BQ:58:GLY:N	2.60	0.53
39:BQ:67:LEU:HD21	39:BQ:71:GLN:HA	1.91	0.53
39:BQ:79:LEU:HD23	39:BQ:80:PHE:HA	1.91	0.53
39:BQ:83:ILE:O	39:BQ:84:ALA:C	2.46	0.53
41:BS:103:ARG:O	41:BS:107:ASP:CG	2.47	0.53
43:BU:5:VAL:HA	43:BU:39:LEU:HA	1.90	0.53
43:BU:61:VAL:O	43:BU:99:ILE:O	2.27	0.53
43:BU:71:LEU:O	43:BU:72:VAL:HG23	2.08	0.53
44:BV:7:ALA:HB3	44:BV:103:ILE:HD12	1.89	0.53
25:BA:1341:U:O2'	45:BW:56:THR:N	2.39	0.53
46:BX:32:PRO:CB	46:BX:34:LYS:HE3	2.33	0.53
46:BX:33:LYS:O	46:BX:34:LYS:O	2.27	0.53
46:BX:96:ILE:HD13	46:BX:103:GLY:HA2	1.90	0.53
47:BY:95:PRO:CG	47:BY:131:ARG:H	2.21	0.53
48:BZ:29:GLN:HB3	48:BZ:67:VAL:CG2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BK:108:THR:CG2	33:BK:109:ILE:N	2.72	0.53
1:AA:1035:A:H2'	1:AA:1036:G:C5'	2.36	0.53
1:AA:693:G:H5'	4:A1:13:A:N6	2.24	0.53
1:AA:1074:G:C5	1:AA:1075:C:C6	2.96	0.53
1:AA:1083:U:O4	1:AA:1084:G:O6	2.26	0.53
1:AA:1327:C:H5''	24:AX:20:LYS:HD3	1.91	0.53
1:AA:1361:G:H3'	1:AA:1361:G:H8	1.74	0.53
1:AA:1510:U:O2'	1:AA:1511:G:O5'	2.25	0.53
1:AA:1513:A:C2'	1:AA:1514:C:C6	2.81	0.53
1:AA:198:G:C2	1:AA:199:G:C8	2.96	0.53
1:AA:236:G:C5	1:AA:237:C:C5	2.97	0.53
1:AA:263:A:C2'	1:AA:264:U:C5'	2.65	0.53
1:AA:51:A:N6	1:AA:353:A:C2	2.76	0.53
1:AA:360:A:N6	1:AA:361:G:N1	2.56	0.53
1:AA:42:G:C6	1:AA:43:C:N4	2.77	0.53
1:AA:445:G:C2	1:AA:446:G:C4	2.96	0.53
1:AA:565:U:P	1:AA:566:G:C3'	2.95	0.53
1:AA:575:G:O2'	1:AA:576:G:C5'	2.57	0.53
1:AA:590:C:O2'	1:AA:591:U:O5'	2.27	0.53
1:AA:686:U:HO2'	1:AA:687:A:P	2.32	0.53
1:AA:690:G:C6	1:AA:691:G:C2	2.97	0.53
1:AA:697:U:H2'	1:AA:698:G:C8	2.43	0.53
1:AA:770:C:O4'	1:AA:900:A:H2	1.92	0.53
1:AA:783:C:C2'	1:AA:784:C:H5''	2.38	0.53
1:AA:818:G:N2	1:AA:820:U:N3	2.57	0.53
2:AC:44:A:H2'	2:AC:45:G:H5'	1.90	0.53
3:AD:35:A:H3'	3:AD:36:A:C8	2.44	0.53
3:AD:22:G:N7	3:AD:46:G:N2	2.57	0.53
5:AE:201:ILE:N	5:AE:201:ILE:HD12	2.24	0.53
5:AE:70:PHE:O	5:AE:92:TYR:CB	2.57	0.53
7:AG:60:GLU:CA	7:AG:63:LYS:HD2	2.38	0.53
10:AJ:86:GLN:O	10:AJ:148:ASN:HB3	2.09	0.53
11:AK:132:GLU:O	11:AK:133:LEU:HD23	2.08	0.53
11:AK:25:ASP:OD1	11:AK:60:ARG:HB2	2.09	0.53
11:AK:35:ILE:HA	11:AK:38:ILE:HG12	1.89	0.53
12:AL:112:LYS:CD	12:AL:117:HIS:HA	2.38	0.53
14:AN:68:ALA:O	14:AN:71:LYS:HB2	2.09	0.53
15:AO:61:THR:O	15:AO:62:SER:OG	2.26	0.53
16:AP:23:TYR:CE2	16:AP:70:LEU:HD22	2.44	0.53
17:AQ:22:THR:O	17:AQ:23:ARG:HG2	2.08	0.53
18:AR:21:ASP:OD2	18:AR:24:SER:CB	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:375:U:H4'	19:AS:17:TYR:CE2	2.44	0.53
19:AS:40:ASP:OD2	19:AS:40:ASP:C	2.48	0.53
1:AA:663:A:C5'	21:AU:61:LYS:HE3	2.38	0.53
1:AA:664:G:H5''	21:AU:64:ARG:HE	1.73	0.53
22:AV:47:HIS:N	22:AV:62:ILE:CG2	2.70	0.53
49:B1:23:LYS:HZ2	49:B1:55:LEU:HD21	1.73	0.53
51:B3:31:ILE:CD1	51:B3:31:ILE:N	2.69	0.53
53:B5:16:CYS:O	53:B5:16:CYS:SG	2.66	0.53
53:B5:17:LYS:HE2	53:B5:49:HIS:N	2.23	0.53
25:BA:179:G:C5'	54:B6:32:LYS:NZ	2.51	0.53
55:B7:3:LYS:HZ3	55:B7:59:LYS:NZ	2.07	0.53
25:BA:1195:G:H2'	25:BA:1226:G:N2	2.24	0.53
25:BA:124:G:H8	25:BA:124:G:O5'	1.92	0.53
25:BA:1250:G:HO2'	25:BA:1251:C:P	2.31	0.53
25:BA:1259:G:C2'	25:BA:1260:G:H8	2.01	0.53
25:BA:1328:G:H4'	25:BA:1329:U:C6	2.43	0.53
25:BA:1334:G:H2'	25:BA:1335:U:C6	2.44	0.53
25:BA:1464:C:C2	25:BA:1465:G:C8	2.97	0.53
25:BA:1475:G:H2'	25:BA:1476:C:O5'	2.09	0.53
25:BA:1498:C:O2	25:BA:1499:C:C5	2.61	0.53
25:BA:1532:C:H3'	25:BA:1532:C:P	2.48	0.53
25:BA:1498:C:H5	25:BA:1576:U:O2'	1.92	0.53
25:BA:1637:A:C6	25:BA:1638:C:N4	2.77	0.53
25:BA:1299:G:N2	25:BA:1642:G:C6	2.77	0.53
25:BA:1727:U:H2'	25:BA:1728:G:OP1	2.07	0.53
25:BA:1754:C:C4	25:BA:1755:A:C5	2.97	0.53
25:BA:1770:G:C5	25:BA:1771:C:C5	2.97	0.53
25:BA:1783:A:OP2	25:BA:1783:A:C8	2.62	0.53
25:BA:1791:A:H5''	25:BA:1792:G:OP2	2.08	0.53
25:BA:1831:G:O2'	25:BA:1832:C:H5'	2.09	0.53
25:BA:192:C:C2'	25:BA:192:C:O2	2.54	0.53
25:BA:1990:C:N4	25:BA:1991:U:O4	2.42	0.53
25:BA:2118:U:H5	25:BA:2146:C:N4	2.06	0.53
25:BA:2191:G:N2	25:BA:2192:G:N3	2.57	0.53
25:BA:2206:C:C4	25:BA:2207:C:C5	2.96	0.53
25:BA:225:A:C6	25:BA:226:G:C4	2.96	0.53
25:BA:2325:G:C5	25:BA:2326:C:C5	2.96	0.53
25:BA:2391:G:C2'	25:BA:2392:A:OP2	2.57	0.53
25:BA:2436:G:O2'	25:BA:2437:U:P	2.65	0.53
25:BA:2477:C:N4	56:B8:10:ILE:HG21	2.24	0.53
25:BA:2505:G:N7	25:BA:2576:G:N3	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2579:C:H6	25:BA:2579:C:H5''	1.74	0.53
25:BA:260:G:N1	25:BA:261:G:C8	2.77	0.53
25:BA:2686:G:O2'	25:BA:2687:U:C5'	2.57	0.53
25:BA:2625:G:N1	25:BA:2777:G:N2	2.56	0.53
25:BA:2824:C:C4	25:BA:2825:C:H1'	2.43	0.53
25:BA:2623:G:H5'	25:BA:2826:A:H1'	1.89	0.53
25:BA:294:A:H2'	25:BA:295:G:C5'	2.39	0.53
25:BA:459:U:C5	25:BA:469:G:N2	2.77	0.53
25:BA:569:U:O4'	25:BA:946:G:O2'	2.19	0.53
25:BA:612:G:C4'	25:BA:616:A:C6	2.88	0.53
25:BA:629:G:OP1	55:B7:17:THR:CG2	2.55	0.53
25:BA:86:C:OP1	46:BX:29:GLU:O	2.26	0.53
26:BB:45:A:H1'	31:BG:95:ARG:HH12	1.73	0.53
25:BA:861:A:H2	26:BB:79:C:H1'	1.73	0.53
27:BC:160:ARG:HH11	27:BC:160:ARG:HA	1.73	0.53
28:BD:168:ARG:CG	28:BD:173:VAL:HG13	2.36	0.53
25:BA:1774:C:H42	28:BD:208:LYS:HG3	1.73	0.53
28:BD:244:ARG:C	28:BD:252:TRP:NE1	2.62	0.53
29:BE:26:ILE:HA	29:BE:180:ASN:O	2.08	0.53
29:BE:6:GLY:O	29:BE:26:ILE:HG23	2.09	0.53
30:BF:132:VAL:N	30:BF:138:GLU:HG3	2.10	0.53
30:BF:46:ARG:NE	30:BF:47:GLY:N	2.50	0.53
30:BF:81:PRO:HG2	30:BF:82:ILE:N	2.17	0.53
25:BA:2305:A:O2'	31:BG:136:ARG:HB3	2.08	0.53
31:BG:120:LEU:CA	31:BG:180:PHE:HB3	2.38	0.53
32:BH:124:GLU:OE2	32:BH:134:SER:HB3	2.08	0.53
32:BH:35:VAL:HG11	32:BH:72:ILE:CA	2.10	0.53
33:BK:7:GLU:HB3	33:BK:12:LEU:CD2	2.35	0.53
35:BM:10:GLU:OE2	35:BM:40:PRO:HD2	2.09	0.53
35:BM:23:LEU:HD21	35:BM:62:VAL:CG2	2.31	0.53
35:BM:34:LEU:HB3	35:BM:116:LEU:CD1	2.39	0.53
35:BM:71:ILE:HD12	35:BM:101:HIS:ND1	2.24	0.53
36:BN:76:ALA:CB	36:BN:78:ARG:HH22	2.19	0.53
36:BN:94:ARG:HG2	36:BN:96:THR:O	2.09	0.53
25:BA:603:A:H61	37:BO:104:GLY:HA2	1.70	0.53
37:BO:76:LYS:NZ	37:BO:112:LEU:HD13	2.22	0.53
37:BO:113:LYS:NZ	37:BO:114:ILE:O	2.40	0.53
37:BO:29:LYS:HD2	37:BO:29:LYS:N	2.24	0.53
38:BP:112:GLU:O	38:BP:115:MET:HB2	2.09	0.53
38:BP:56:ARG:CD	38:BP:57:HIS:N	2.71	0.53
25:BA:1227:A:P	42:BT:13:LYS:HZ3	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:16:LYS:HZ2	42:BT:16:LYS:HB2	1.73	0.53
43:BU:19:LYS:CB	43:BU:21:ARG:HH12	2.01	0.53
43:BU:28:GLU:N	43:BU:29:PRO:CD	2.71	0.53
43:BU:64:HIS:HA	43:BU:97:LYS:CD	2.38	0.53
44:BV:18:ARG:CD	44:BV:76:VAL:HG12	2.39	0.53
47:BY:19:ARG:HE	47:BY:24:LEU:HD21	1.73	0.53
48:BZ:28:GLY:O	48:BZ:29:GLN:C	2.46	0.53
25:BA:1069:A:N1	25:BA:1096:A:OP1	2.42	0.53
34:BL:18:THR:HG23	34:BL:38:VAL:HG21	1.89	0.53
46:BX:88:LYS:HE3	46:BX:89:PHE:HB2	1.89	0.53
1:AA:747:C:H2'	1:AA:748:C:H1'	1.90	0.53
32:BH:109:PHE:N	32:BH:109:PHE:CD2	2.76	0.53
1:AA:1101:A:H1'	1:AA:1102:A:O4'	2.09	0.53
1:AA:1104:G:C2'	1:AA:1105:A:H5'	2.39	0.53
1:AA:1105:A:C2	1:AA:1106:G:C8	2.96	0.53
1:AA:1202:G:C4'	17:AQ:29:ARG:HE	2.21	0.53
1:AA:131:C:N4	1:AA:232:G:H1	2.07	0.53
1:AA:922:G:O2'	1:AA:1398:A:N6	2.22	0.53
1:AA:356:A:H5''	1:AA:367:U:C5	2.44	0.53
1:AA:380:G:H22	1:AA:382:A:H3'	1.64	0.53
1:AA:413:G:C2'	1:AA:414:A:OP2	2.57	0.53
1:AA:445:G:H2'	1:AA:446:G:C8	2.43	0.53
1:AA:458:C:N3	1:AA:475:G:C6	2.77	0.53
1:AA:452:A:N6	1:AA:480:U:N3	2.57	0.53
1:AA:601:C:C2	1:AA:602:A:C8	2.97	0.53
1:AA:610:G:C2'	1:AA:611:A:C5'	2.86	0.53
1:AA:673:G:O2'	1:AA:674:G:C8	2.60	0.53
1:AA:790:A:C6	1:AA:791:G:C6	2.97	0.53
1:AA:770:C:H1'	1:AA:900:A:N1	2.24	0.53
2:AC:72:A:C2'	2:AC:73:A:C8	2.91	0.53
5:AE:213:LEU:HD22	5:AE:214:ILE:CD1	2.39	0.53
5:AE:80:ILE:HG21	5:AE:211:ILE:CG2	2.38	0.53
5:AE:93:VAL:HG11	5:AE:97:TRP:HD1	1.72	0.53
6:AF:12:LEU:HA	6:AF:17:ASP:OD2	2.09	0.53
6:AF:150:LYS:HE2	6:AF:167:TRP:HE3	1.74	0.53
6:AF:38:ARG:HB2	6:AF:94:LEU:HD11	1.89	0.53
7:AG:13:ARG:HD2	7:AG:32:ALA:HB2	1.89	0.53
7:AG:20:TYR:C	7:AG:22:LYS:N	2.61	0.53
8:AH:31:LEU:C	8:AH:31:LEU:HD23	2.30	0.53
8:AH:28:PHE:CE1	8:AH:50:GLU:CA	2.92	0.53
9:AI:94:GLN:H	9:AI:94:GLN:NE2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:111:ARG:CD	10:AJ:123:GLU:OE2	2.46	0.53
10:AJ:44:TYR:HA	10:AJ:47:CYS:SG	2.49	0.53
10:AJ:50:ILE:HD12	10:AJ:58:PRO:CB	2.34	0.53
12:AL:114:TYR:HB2	12:AL:116:LYS:HZ3	1.74	0.53
14:AN:23:ALA:HB1	14:AN:88:GLY:HA3	1.90	0.53
14:AN:92:GLU:HA	14:AN:92:GLU:OE1	2.08	0.53
14:AN:99:GLN:O	14:AN:105:VAL:CG2	2.57	0.53
16:AP:59:TYR:O	16:AP:63:THR:HB	2.08	0.53
16:AP:80:ARG:HG3	16:AP:80:ARG:NH1	2.21	0.53
18:AR:41:GLU:CD	18:AR:41:GLU:C	2.65	0.53
19:AS:26:ARG:HD2	19:AS:31:LYS:N	2.23	0.53
19:AS:66:PRO:CD	19:AS:71:ARG:NH2	2.69	0.53
20:AT:51:TYR:CD2	20:AT:57:VAL:HG11	2.43	0.53
1:AA:1325:C:OP1	24:AX:15:ARG:NH1	2.42	0.53
24:AX:6:ARG:NH1	24:AX:15:ARG:CZ	2.72	0.53
49:B1:25:ARG:O	49:B1:28:MET:HB2	2.09	0.53
52:B4:13:LYS:O	52:B4:14:ALA:C	2.47	0.53
55:B7:27:THR:OG1	55:B7:27:THR:O	2.22	0.53
25:BA:1005:C:O2'	35:BM:28:THR:HB	2.08	0.53
25:BA:1031:G:H5'	25:BA:1032:A:OP2	2.09	0.53
25:BA:973:A:C1'	25:BA:1188:U:C4	2.92	0.53
25:BA:1191:G:C8	25:BA:1191:G:C3'	2.90	0.53
25:BA:1528:A:H5'	25:BA:1529:A:OP2	2.09	0.53
25:BA:1608:A:O3'	25:BA:1609:A:H4'	2.08	0.53
25:BA:1649:G:C6	25:BA:2009:G:C6	2.97	0.53
25:BA:1656:C:H3'	25:BA:1657:C:H5	1.73	0.53
25:BA:1662:C:H2'	25:BA:1663:C:C5	2.43	0.53
25:BA:1700:A:H2'	25:BA:1701:A:H5'	1.91	0.53
25:BA:1840:G:C2	25:BA:1841:U:N1	2.76	0.53
25:BA:1992:G:H1'	25:BA:1993:U:C4	2.40	0.53
25:BA:2037:G:O2'	25:BA:2038:G:H5'	2.08	0.53
25:BA:2133:G:O6	25:BA:2157:G:H1'	2.07	0.53
25:BA:2125:G:N1	25:BA:2172:U:OP2	2.42	0.53
25:BA:2184:G:H2'	25:BA:2184:G:N3	2.22	0.53
25:BA:2371:G:H2'	25:BA:2372:G:C8	2.44	0.53
25:BA:2291:U:C1'	25:BA:2374:C:H1'	2.37	0.53
25:BA:2392:A:O3'	55:B7:32:LEU:CD1	2.56	0.53
25:BA:2458:G:HO2'	25:BA:2459:A:C5'	2.22	0.53
25:BA:245:G:OP1	37:BO:65:ARG:HD2	2.09	0.53
25:BA:2471:C:C2'	25:BA:2472:G:O5'	2.56	0.53
25:BA:2599:G:O2'	25:BA:2600:A:H5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2657:A:C2	25:BA:2665:A:C5	2.97	0.53
25:BA:2667:C:H6	25:BA:2668:G:C8	2.26	0.53
25:BA:290:G:OP1	25:BA:290:G:C4	2.62	0.53
25:BA:297:C:H3'	25:BA:298:G:H8	1.68	0.53
25:BA:460:A:H3'	25:BA:461:C:C6	2.43	0.53
25:BA:509:C:H2'	25:BA:510:C:OP2	2.09	0.53
25:BA:562:U:O2'	25:BA:563:G:P	2.66	0.53
25:BA:4:C:H2'	25:BA:5:A:C8	2.44	0.53
25:BA:642:G:H2'	25:BA:643:A:O4'	2.08	0.53
25:BA:675:A:N7	25:BA:804:A:C6	2.77	0.53
25:BA:738:G:C6	25:BA:739:G:C6	2.97	0.53
25:BA:751:A:C4'	44:BV:90:ARG:CZ	2.87	0.53
25:BA:799:G:C6	25:BA:800:A:C6	2.97	0.53
25:BA:819:A:N7	25:BA:973:A:H2	2.05	0.53
25:BA:7:G:N2	25:BA:8:A:C4	2.76	0.53
26:BB:76:G:H5'	47:BY:85:HIS:CE1	2.44	0.53
27:BC:43:VAL:HG23	27:BC:175:VAL:HG21	1.91	0.53
28:BD:118:VAL:H	28:BD:129:ASN:ND2	2.06	0.53
28:BD:121:PRO:O	28:BD:135:PHE:CE2	2.62	0.53
28:BD:5:LYS:CB	28:BD:29:PRO:HB3	2.38	0.53
29:BE:4:ILE:HD12	29:BE:5:LEU:H	1.73	0.53
30:BF:121:GLY:CA	30:BF:191:ARG:NH1	2.70	0.53
30:BF:98:SER:O	30:BF:99:TYR:CB	2.56	0.53
31:BG:135:LEU:HD22	31:BG:137:GLU:H	1.74	0.53
31:BG:47:LYS:HD3	31:BG:72:ARG:C	2.29	0.53
2:AC:19:G:N2	31:BG:82:LEU:HD12	2.23	0.53
26:BB:43:C:H1'	31:BG:95:ARG:HB2	1.91	0.53
32:BH:19:VAL:HG12	32:BH:24:VAL:HG12	1.90	0.53
33:BK:34:GLY:H	33:BK:35:LEU:CD2	2.22	0.53
33:BK:3:VAL:O	33:BK:18:VAL:HG13	2.09	0.53
35:BM:104:LYS:CB	35:BM:117:PHE:CZ	2.92	0.53
35:BM:136:GLU:O	35:BM:137:LYS:HG2	2.08	0.53
36:BN:103:ALA:O	36:BN:106:LEU:N	2.42	0.53
36:BN:70:LYS:HG2	36:BN:104:ARG:CG	2.39	0.53
25:BA:833:U:H1'	37:BO:48:PRO:CG	2.39	0.53
37:BO:70:GLN:CA	37:BO:110:TYR:OH	2.56	0.53
38:BP:109:VAL:CG1	38:BP:110:THR:N	2.72	0.53
40:BR:47:THR:HG22	40:BR:48:LEU:H	1.74	0.53
41:BS:11:GLU:H	41:BS:11:GLU:CD	2.12	0.53
41:BS:34:VAL:HG22	41:BS:36:GLU:N	2.23	0.53
41:BS:54:ARG:O	41:BS:64:ARG:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:72:VAL:CG1	41:BS:73:GLU:N	2.71	0.53
42:BT:53:ARG:CG	42:BT:57:PHE:HE1	2.12	0.53
42:BT:79:PHE:HE2	42:BT:106:PHE:HZ	1.55	0.53
43:BU:5:VAL:HG13	43:BU:39:LEU:HD23	1.90	0.53
44:BV:24:ILE:CG2	44:BV:35:ILE:HG23	2.39	0.53
44:BV:72:LYS:O	44:BV:106:ILE:O	2.25	0.53
45:BW:15:GLU:OE1	45:BW:15:GLU:HA	2.09	0.53
47:BY:26:GLY:O	47:BY:37:VAL:O	2.26	0.53
26:BB:103:U:C1'	47:BY:72:ARG:HD2	2.38	0.53
48:BZ:76:GLY:C	48:BZ:78:TYR:CE1	2.82	0.53
33:BK:58:LEU:O	33:BK:62:LYS:HG3	2.09	0.53
34:BL:129:GLY:O	34:BL:132:ARG:HB2	2.09	0.53
6:AF:157:ILE:CD1	6:AF:164:ARG:NH1	2.71	0.53
1:AA:1039:C:H2'	1:AA:1040:U:C6	2.43	0.53
1:AA:95:G:C2'	1:AA:96:G:H5'	2.39	0.53
26:BB:116:G:C4	26:BB:117:G:H1'	2.44	0.53
26:BB:0:A:H5''	26:BB:0:A:N3	2.23	0.53
23:AW:8:ARG:NH1	23:AW:8:ARG:HB2	2.24	0.53
1:AA:103:C:C4	1:AA:104:G:N7	2.77	0.53
1:AA:121:C:N4	1:AA:235:C:H2'	2.24	0.53
1:AA:1291:G:N2	1:AA:1292:U:C2	2.77	0.53
1:AA:1338:G:C6	1:AA:1339:A:N6	2.77	0.53
1:AA:251:G:H4'	1:AA:252:U:O5'	2.08	0.53
1:AA:265:G:OP1	20:AT:64:PRO:O	2.26	0.53
1:AA:420:U:H1'	1:AA:424:G:N2	2.24	0.53
1:AA:530:G:H5''	1:AA:531:U:C5'	2.39	0.53
1:AA:578:C:O2'	1:AA:728:A:O2'	2.24	0.53
1:AA:588:G:H2'	1:AA:588:G:N3	2.24	0.53
1:AA:602:A:C6	1:AA:603:U:C4	2.97	0.53
1:AA:652:U:C6	1:AA:752:G:C2	2.97	0.53
1:AA:828:A:C2	1:AA:859:A:C1'	2.92	0.53
1:AA:828:A:HO2'	1:AA:829:G:P	2.30	0.53
1:AA:918:A:H2'	1:AA:919:A:O5'	2.09	0.53
1:AA:922:G:N2	1:AA:923:A:C1'	2.70	0.53
1:AA:979:C:C2	1:AA:980:C:O4'	2.62	0.53
5:AE:132:LYS:HZ3	5:AE:132:LYS:H	1.54	0.53
5:AE:14:GLY:HA3	5:AE:209:ARG:HH22	1.63	0.53
5:AE:103:THR:OG1	5:AE:180:LEU:HD21	2.09	0.53
5:AE:28:PHE:CE1	5:AE:31:TYR:CB	2.91	0.53
5:AE:42:ILE:HG23	5:AE:43:ASP:N	2.24	0.53
6:AF:182:ILE:HG22	6:AF:202:ILE:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:77:ILE:CD1	6:AF:84:ILE:HB	2.39	0.53
7:AG:90:GLY:CA	7:AG:200:GLU:OE2	2.53	0.53
7:AG:19:LEU:N	7:AG:33:MET:HE1	2.12	0.53
7:AG:61:LYS:HZ1	7:AG:65:ARG:HD2	1.74	0.53
8:AH:41:VAL:HG21	8:AH:113:ALA:HB2	1.90	0.53
11:AK:7:ALA:HA	11:AK:10:LEU:HD12	1.90	0.53
1:AA:823:G:N2	11:AK:1:MET:N	2.54	0.53
11:AK:48:TYR:CD1	11:AK:49:GLU:N	2.77	0.53
13:AM:54:PHE:O	13:AM:55:LYS:O	2.27	0.53
15:AO:24:VAL:O	15:AO:24:VAL:HG12	2.09	0.53
16:AP:20:THR:HG23	16:AP:26:GLY:HA2	1.90	0.53
19:AS:9:PHE:HD2	19:AS:9:PHE:N	2.07	0.53
20:AT:44:ALA:HA	20:AT:71:PHE:O	2.09	0.53
20:AT:88:TYR:O	20:AT:92:ARG:HB2	2.08	0.53
22:AV:46:GLY:H	22:AV:62:ILE:HG23	1.73	0.53
23:AW:102:GLY:O	23:AW:104:LEU:N	2.41	0.53
1:AA:195:A:P	23:AW:68:LYS:HZ3	2.32	0.53
52:B4:34:PRO:HG3	52:B4:40:LYS:HZ1	1.74	0.53
53:B5:15:GLU:CB	53:B5:53:LYS:HB2	2.38	0.53
53:B5:20:ASN:O	53:B5:21:TYR:HB3	2.08	0.53
25:BA:594:U:C5'	55:B7:61:LEU:CD1	2.87	0.53
25:BA:1143:A:N3	25:BA:1144:G:C4	2.77	0.53
25:BA:1227:A:C8	25:BA:1228:G:H5''	2.44	0.53
25:BA:1239:G:H2'	25:BA:1240:U:O4'	2.08	0.53
25:BA:1271:G:C3'	25:BA:1271:G:C8	2.92	0.53
25:BA:1300:U:O2'	25:BA:1626:G:N2	2.41	0.53
25:BA:1314:C:H2'	25:BA:1315:C:C6	2.42	0.53
25:BA:1404:C:H2'	25:BA:1405:U:H5'	1.91	0.53
25:BA:1471:A:OP2	25:BA:1472:A:H2	1.91	0.53
25:BA:1508:A:C5'	25:BA:1510:A:C5	2.87	0.53
25:BA:1477:A:H2	25:BA:1516:U:O2	1.89	0.53
25:BA:1565:C:C5	25:BA:1567:A:C8	2.97	0.53
25:BA:1594:G:H2'	25:BA:1595:G:O4'	2.09	0.53
25:BA:1609:A:C5	25:BA:1616:A:C2	2.97	0.53
25:BA:1625:C:C2	25:BA:1626:G:H1'	2.42	0.53
25:BA:1689:A:N3	25:BA:1690:A:N7	2.57	0.53
25:BA:1782:C:H5''	25:BA:2609:U:O4	2.09	0.53
25:BA:178:G:H3'	25:BA:178:G:C8	2.43	0.53
25:BA:1809:A:O2'	25:BA:1810:A:OP1	2.25	0.53
25:BA:1844:C:C2'	25:BA:1845:G:O5'	2.57	0.53
25:BA:1919:A:N1	25:BA:1920:C:C4	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1950:G:C5	25:BA:1951:U:H5	2.26	0.53
25:BA:1950:G:N7	25:BA:1951:U:H5	2.07	0.53
25:BA:2225:A:C4'	25:BA:2226:C:C6	2.90	0.53
25:BA:2274:A:N6	25:BA:2276:G:C4	2.77	0.53
25:BA:2329:G:C6	25:BA:2386:C:N4	2.73	0.53
25:BA:231:C:C4	25:BA:232:G:N2	2.77	0.53
25:BA:2335:A:C8	25:BA:2337:G:C5	2.97	0.53
25:BA:2452:C:O2'	25:BA:2453:A:H5'	2.09	0.53
25:BA:2059:A:N3	25:BA:2503:A:N6	2.56	0.53
25:BA:2648:C:C2	25:BA:2649:U:C5	2.97	0.53
25:BA:2652:C:H2'	25:BA:2653:U:O4'	2.09	0.53
25:BA:270(A):A:H61	25:BA:270(Y):G:C5'	2.21	0.53
25:BA:2740:A:N3	25:BA:2741:A:C5	2.77	0.53
25:BA:361:G:H2'	25:BA:362:U:C6	2.43	0.53
25:BA:429:A:H2'	25:BA:430:G:N7	2.24	0.53
25:BA:216:A:N6	25:BA:432:A:C1'	2.72	0.53
25:BA:468:G:C2'	25:BA:469:G:H5'	2.38	0.53
25:BA:533:G:N2	25:BA:559:G:H22	2.06	0.53
25:BA:650:C:N3	25:BA:651:G:C2	2.77	0.53
25:BA:823:G:H2'	25:BA:824:A:H8	1.74	0.53
25:BA:89:G:C5	25:BA:90:U:C5	2.97	0.53
26:BB:50:G:H5''	40:BR:61:ASN:HB3	1.91	0.53
26:BB:13:A:C6	26:BB:70:C:O4'	2.62	0.53
26:BB:70:C:C2	26:BB:71:C:C5	2.97	0.53
25:BA:2177:C:H4'	27:BC:213:TYR:CE1	2.44	0.53
28:BD:265:PRO:HG2	28:BD:266:SER:H	1.74	0.53
28:BD:59:LYS:O	28:BD:62:TYR:OH	2.26	0.53
29:BE:16:ARG:HH21	29:BE:16:ARG:HG2	1.74	0.53
29:BE:16:ARG:HB2	29:BE:17:ASP:OD2	2.08	0.53
29:BE:49:LEU:HD13	29:BE:50:GLY:N	2.18	0.53
30:BF:65:TRP:CE2	30:BF:73:ALA:HB3	2.44	0.53
25:BA:590:A:C5'	30:BF:95:ARG:HD2	2.39	0.53
31:BG:121:ASN:CG	31:BG:133:LEU:HD21	2.30	0.53
31:BG:1:MET:C	31:BG:3:LEU:H	2.13	0.53
33:BK:24:GLY:O	33:BK:27:ARG:HB2	2.09	0.53
37:BO:122:PRO:O	37:BO:123:LEU:HG	2.08	0.53
38:BP:32:TYR:CE1	38:BP:106:VAL:HG23	2.43	0.53
38:BP:73:PRO:HA	38:BP:93:TYR:CE2	2.44	0.53
38:BP:11:LYS:NZ	38:BP:93:TYR:CE2	2.77	0.53
39:BQ:57:ARG:NH2	39:BQ:59:ASP:OD1	2.42	0.53
42:BT:91:ASP:O	42:BT:95:LEU:HG	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:36:PRO:HB3	43:BU:61:VAL:HG23	1.91	0.53
25:BA:993:G:C1'	43:BU:91:TYR:CE2	2.89	0.53
44:BV:15:ARG:HD3	52:B4:20:ARG:HH21	1.73	0.53
47:BY:153:SER:HB2	47:BY:168:GLU:HG3	1.91	0.53
33:BK:78:THR:HA	33:BK:143:SER:O	2.09	0.53
25:BA:1072:C:C2	25:BA:1092:C:N4	2.77	0.53
32:BH:25:LYS:HZ3	32:BH:27:LYS:NZ	2.07	0.53
1:AA:80:G:C3'	1:AA:81:G:O4'	2.57	0.53
1:AA:86:U:OP2	1:AA:87:A:C2	2.61	0.53
1:AA:1064:G:H1'	1:AA:1066:C:C2	2.43	0.52
1:AA:1108:G:N7	1:AA:1109:C:C5	2.77	0.52
1:AA:1202:G:C8	17:AQ:42:ILE:HD13	2.44	0.52
1:AA:1305:G:H2'	1:AA:1331:G:N2	2.23	0.52
1:AA:1362(A):C:H5'	1:AA:1363:A:O5'	2.09	0.52
1:AA:129(A):G:H2'	1:AA:189:U:C5	2.44	0.52
1:AA:20:U:C2'	1:AA:21:G:H5'	2.39	0.52
1:AA:341:C:O2'	1:AA:342:C:H5'	2.09	0.52
1:AA:582:U:H2'	1:AA:583:A:O5'	2.08	0.52
1:AA:590:C:C2'	1:AA:591:U:O5'	2.56	0.52
1:AA:724:G:H21	1:AA:725:G:H1'	1.74	0.52
1:AA:767:A:O5'	1:AA:767:A:C8	2.54	0.52
1:AA:784:C:H2'	1:AA:785:G:O4'	2.10	0.52
1:AA:781:A:H61	1:AA:802:A:H1'	1.73	0.52
1:AA:872:A:C5	1:AA:874:G:C8	2.97	0.52
1:AA:944:G:H3'	1:AA:945:G:C5'	2.38	0.52
2:AC:55:U:O2'	2:AC:57:A:N6	2.37	0.52
5:AE:10:LEU:CG	5:AE:11:LEU:H	2.21	0.52
5:AE:17:PHE:HA	5:AE:42:ILE:CG2	2.39	0.52
7:AG:100:ARG:HB2	7:AG:103:ASN:CB	2.35	0.52
7:AG:110:PHE:O	7:AG:161:ASN:HB3	2.08	0.52
1:AA:406:G:H5''	7:AG:5:ILE:CG2	2.39	0.52
9:AI:87:ARG:NH1	9:AI:87:ARG:HG2	2.23	0.52
10:AJ:17:VAL:HG21	10:AJ:44:TYR:CZ	2.44	0.52
11:AK:19:VAL:HG23	11:AK:21:LYS:HE3	1.91	0.52
12:AL:105:ASP:CG	12:AL:107:ARG:NH2	2.59	0.52
13:AM:78:ASN:O	13:AM:79:ARG:C	2.48	0.52
13:AM:6:ILE:HG22	13:AM:98:ILE:HA	1.91	0.52
14:AN:104:GLN:OE1	14:AN:104:GLN:C	2.47	0.52
1:AA:684:A:O2'	14:AN:39:PRO:O	2.26	0.52
15:AO:125:PRO:C	15:AO:127:GLU:H	2.11	0.52
16:AP:91:ARG:HB3	16:AP:98:VAL:CG1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:4:THR:HG22	18:AR:6:GLU:OE1	2.09	0.52
18:AR:64:ARG:O	18:AR:67:LEU:HB2	2.09	0.52
1:AA:130:A:N7	20:AT:64:PRO:CD	2.71	0.52
21:AU:39:VAL:O	21:AU:42:ARG:HB2	2.09	0.52
23:AW:23:ARG:HA	23:AW:26:ASN:OD1	2.09	0.52
23:AW:58:LYS:O	23:AW:62:LEU:CD1	2.57	0.52
49:B1:47:ASP:O	49:B1:50:ARG:N	2.42	0.52
52:B4:9:LYS:O	52:B4:10:LYS:HB2	2.09	0.52
52:B4:8:LYS:O	52:B4:8:LYS:HE3	2.09	0.52
25:BA:458:G:H3'	54:B6:39:ARG:HB2	1.91	0.52
25:BA:1144:G:C4	25:BA:1145:C:C5	2.97	0.52
25:BA:1223:C:H42	43:BU:88:ARG:HH22	1.47	0.52
25:BA:1255:U:C5'	25:BA:1256:G:C5'	2.65	0.52
25:BA:1298:C:O4'	25:BA:1302:A:N7	2.41	0.52
25:BA:1484:G:H2'	25:BA:1485:G:O5'	2.10	0.52
25:BA:1484:G:H2'	25:BA:1485:G:C5'	2.40	0.52
25:BA:1449:A:P	25:BA:1543:A:N1	2.82	0.52
25:BA:154:G:H2'	25:BA:155:C:H6	1.73	0.52
25:BA:1661:G:C2'	25:BA:1662:C:O5'	2.57	0.52
25:BA:1675:C:C5	29:BE:129:HIS:CE1	2.97	0.52
25:BA:1825:A:H5''	25:BA:1826:G:OP2	2.09	0.52
25:BA:1927:A:C6	25:BA:1928:A:C2	2.97	0.52
25:BA:2093:G:N2	25:BA:2197:U:O2	2.43	0.52
25:BA:2247:A:O2'	25:BA:2248:C:C5'	2.55	0.52
25:BA:2380:C:C4	25:BA:2381:C:C5	2.97	0.52
25:BA:238:C:H2'	25:BA:238:C:O2	2.09	0.52
25:BA:2688:U:C2'	25:BA:2688:U:O2	2.55	0.52
25:BA:2826:A:C5	25:BA:2827:C:C6	2.97	0.52
25:BA:2842:G:H2'	25:BA:2843:G:O4'	2.09	0.52
25:BA:5:A:C2	25:BA:2899:G:C2	2.98	0.52
25:BA:301:G:C8	25:BA:317:G:N2	2.78	0.52
25:BA:248:G:C5'	25:BA:386:G:H22	2.21	0.52
25:BA:48:G:H1'	25:BA:178:G:N2	2.23	0.52
25:BA:586:A:OP1	30:BF:89:VAL:CG2	2.57	0.52
25:BA:619:G:C3'	25:BA:619:G:C8	2.92	0.52
25:BA:61:G:C6	25:BA:62:C:N3	2.77	0.52
25:BA:626:U:H4'	25:BA:653:A:H2	1.73	0.52
25:BA:746:A:H8	25:BA:2611:U:HO2'	1.57	0.52
25:BA:685:A:C2	25:BA:774:A:C2	2.97	0.52
25:BA:778:G:C6	25:BA:779:U:C2	2.98	0.52
25:BA:782:A:C2	28:BD:231:HIS:CE1	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:684:G:N1	25:BA:794:G:N1	2.57	0.52
25:BA:809:G:C4	25:BA:810:U:H5	2.26	0.52
25:BA:996:A:H4'	42:BT:93:LYS:HG2	1.91	0.52
26:BB:104:A:H2'	26:BB:105:G:H5'	1.90	0.52
26:BB:23:G:O2'	26:BB:26:A:N6	2.42	0.52
26:BB:50:G:O3'	40:BR:61:ASN:OD1	2.26	0.52
26:BB:75:G:N2	47:BY:85:HIS:ND1	2.57	0.52
27:BC:53:ARG:C	27:BC:55:ASP:H	2.13	0.52
28:BD:9:TYR:CD2	28:BD:201:HIS:N	2.76	0.52
30:BF:139:PHE:O	30:BF:139:PHE:HD1	1.91	0.52
30:BF:30:PRO:O	30:BF:33:LEU:CD1	2.56	0.52
32:BH:103:LEU:HD21	32:BH:148:ILE:HG13	1.92	0.52
32:BH:127:GLU:HG3	32:BH:130:ARG:CB	2.40	0.52
32:BH:97:ARG:H	32:BH:104:GLU:CB	2.20	0.52
33:BK:32:PRO:CG	33:BK:33:ARG:N	2.65	0.52
35:BM:12:ARG:HD2	35:BM:12:ARG:O	2.08	0.52
35:BM:17:ASP:O	35:BM:55:VAL:O	2.27	0.52
35:BM:76:SER:HB3	35:BM:81:GLY:N	2.24	0.52
35:BM:82:LEU:O	35:BM:83:LYS:C	2.47	0.52
36:BN:57:VAL:HG11	36:BN:85:VAL:CG1	2.39	0.52
36:BN:9:GLU:N	36:BN:81:ASP:O	2.38	0.52
36:BN:89:ASN:HD22	36:BN:91:LEU:CB	2.21	0.52
37:BO:126:VAL:HB	37:BO:146:VAL:CB	2.40	0.52
38:BP:104:PHE:C	38:BP:105:GLU:OE1	2.47	0.52
39:BQ:20:LEU:HD22	39:BQ:24:GLN:HG3	1.91	0.52
39:BQ:67:LEU:HD23	39:BQ:76:VAL:CG2	2.33	0.52
40:BR:96:GLY:O	40:BR:98:VAL:N	2.42	0.52
42:BT:115:ALA:O	42:BT:118:GLY:N	2.42	0.52
43:BU:11:GLN:OE1	43:BU:21:ARG:CB	2.56	0.52
43:BU:5:VAL:HG13	43:BU:39:LEU:CA	2.37	0.52
44:BV:17:VAL:CG2	44:BV:18:ARG:N	2.73	0.52
44:BV:41:LYS:C	44:BV:42:ARG:O	2.44	0.52
45:BW:12:VAL:HG22	45:BW:29:TRP:CD1	2.44	0.52
45:BW:18:TYR:OH	45:BW:96:ILE:CD1	2.58	0.52
25:BA:85:G:OP1	46:BX:8:LYS:CE	2.57	0.52
47:BY:4:ARG:HD3	47:BY:38:TYR:N	2.24	0.52
33:BK:129:THR:HA	33:BK:139:GLN:OE1	2.08	0.52
33:BK:132:PRO:CD	33:BK:138:ILE:HG22	2.25	0.52
33:BK:93:THR:HG23	33:BK:96:ASP:H	1.74	0.52
34:BL:35:MET:HA	34:BL:38:VAL:CB	2.34	0.52
22:AV:33:THR:N	22:AV:50:ALA:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:845:G:C5'	25:BA:846:C:OP1	2.52	0.52
3:AD:44:G:C2'	3:AD:45:U:H5'	2.39	0.52
27:BC:71:GLN:CG	27:BC:72:VAL:N	2.72	0.52
25:BA:1034:G:C4	25:BA:1122:G:N2	2.77	0.52
1:AA:1057:G:H4'	6:AF:197:GLY:H	1.73	0.52
1:AA:1157:A:N1	1:AA:1180:A:C5	2.76	0.52
1:AA:1181:G:O2'	1:AA:1182:G:H5'	2.09	0.52
1:AA:1197:G:H2'	1:AA:1198:G:H5'	1.91	0.52
1:AA:977:A:C4	1:AA:1223:C:H5	2.27	0.52
1:AA:1226:C:O2'	1:AA:1227:A:P	2.66	0.52
1:AA:1381:U:H2'	1:AA:1382:C:H5'	1.91	0.52
1:AA:176:C:O2'	1:AA:177:C:C5'	2.54	0.52
1:AA:36:C:C5'	15:AO:122:THR:O	2.57	0.52
1:AA:375:U:C4	1:AA:376:G:N7	2.77	0.52
1:AA:577:G:C2	1:AA:578:C:C6	2.97	0.52
1:AA:675:A:H2'	1:AA:676:A:H8	1.70	0.52
1:AA:679:C:O2'	1:AA:680:C:H5'	2.08	0.52
1:AA:695:A:H2'	1:AA:696:A:O4'	2.09	0.52
1:AA:730:G:H2'	1:AA:731:G:O4'	2.09	0.52
1:AA:745:C:O5'	1:AA:745:C:H6	1.92	0.52
1:AA:774:G:C4	1:AA:775:G:C8	2.97	0.52
1:AA:790:A:N6	1:AA:791:G:N1	2.56	0.52
1:AA:795:C:C4'	1:AA:1506:U:C2	2.92	0.52
1:AA:830:G:O2'	1:AA:831:U:H5'	2.08	0.52
1:AA:889:A:C4'	1:AA:890:G:OP1	2.56	0.52
3:AD:41:G:C2	3:AD:42:C:C2	2.97	0.52
5:AE:192:SER:O	5:AE:194:PRO:HD3	2.09	0.52
5:AE:58:ILE:HG22	5:AE:222:ILE:HG23	1.90	0.52
7:AG:3:ARG:HH11	7:AG:3:ARG:CG	2.22	0.52
8:AH:50:GLU:HB2	8:AH:53:LEU:CD2	2.39	0.52
9:AI:14:LEU:HD12	9:AI:15:ASP:O	2.09	0.52
9:AI:67:MET:SD	9:AI:67:MET:O	2.67	0.52
10:AJ:140:ASP:O	10:AJ:141:VAL:C	2.46	0.52
10:AJ:27:ILE:HG21	10:AJ:40:ALA:HA	1.90	0.52
10:AJ:50:ILE:HG21	10:AJ:61:VAL:CG2	2.35	0.52
11:AK:103:VAL:HG22	11:AK:110:ALA:HB2	1.90	0.52
11:AK:28:ALA:O	11:AK:29:SER:OG	2.17	0.52
12:AL:114:TYR:HB2	12:AL:116:LYS:HZ2	1.73	0.52
15:AO:127:GLU:OE2	15:AO:127:GLU:O	2.27	0.52
16:AP:78:ILE:O	16:AP:81:LEU:HD22	2.09	0.52
17:AQ:14:PRO:C	17:AQ:16:PHE:N	2.59	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:65:LEU:HB2	17:AQ:56:VAL:CG1	2.39	0.52
13:AM:62:HIS:O	17:AQ:59:ALA:HB3	2.09	0.52
18:AR:33:THR:HG22	18:AR:87:ILE:HD11	1.85	0.52
19:AS:36:ILE:CD1	19:AS:56:ALA:HA	2.39	0.52
20:AT:29:HIS:N	20:AT:33:GLY:O	2.40	0.52
20:AT:38:ARG:HG2	20:AT:39:SER:H	1.74	0.52
23:AW:18:GLN:O	23:AW:19:SER:C	2.46	0.52
23:AW:52:ALA:HA	23:AW:55:ILE:HD12	1.91	0.52
24:AX:9:ARG:O	24:AX:10:ARG:C	2.45	0.52
49:B1:1:MET:N	49:B1:2:ARG:CZ	2.71	0.52
51:B3:49:PHE:O	51:B3:50:VAL:O	2.27	0.52
54:B6:27:GLY:O	54:B6:28:ARG:C	2.47	0.52
55:B7:17:THR:O	55:B7:19:SER:N	2.36	0.52
55:B7:5:LYS:HG3	55:B7:7:HIS:CA	2.38	0.52
25:BA:1124:C:O2'	56:B8:36:GLN:O	2.27	0.52
25:BA:1153:C:C5	25:BA:1154:G:O6	2.61	0.52
25:BA:1289:C:N3	25:BA:1290:C:C5	2.77	0.52
25:BA:1351:C:C2	25:BA:1352:U:C6	2.96	0.52
25:BA:1464:C:H5'	25:BA:1528:A:O2'	2.08	0.52
25:BA:1663:C:H6	25:BA:1663:C:O5'	1.92	0.52
25:BA:1790:C:H4'	28:BD:213:ARG:CZ	2.36	0.52
25:BA:1819:A:H1'	25:BA:1821:A:C4	2.44	0.52
25:BA:184:C:N3	25:BA:213:A:N6	2.57	0.52
25:BA:1859:A:H2'	25:BA:1860:G:O4'	2.09	0.52
25:BA:1915:U:O2	25:BA:1916:A:N7	2.42	0.52
25:BA:1994:C:OP2	29:BE:135:HIS:HE1	1.92	0.52
25:BA:2012:G:OP1	44:BV:98:LYS:CG	2.54	0.52
25:BA:2056:G:N2	52:B4:4:HIS:HA	2.24	0.52
25:BA:2199:A:N3	25:BA:2225:A:C2	2.77	0.52
25:BA:2457:U:C4	25:BA:2458:G:N2	2.77	0.52
25:BA:2460:U:C2	25:BA:2461:C:C4	2.96	0.52
25:BA:1129:A:C4	25:BA:2570:G:H1'	2.43	0.52
25:BA:2635:C:H1'	29:BE:36:ARG:HH11	1.73	0.52
25:BA:2782:G:OP2	25:BA:2782:G:O4'	2.27	0.52
25:BA:354:G:O2'	25:BA:355:G:H5'	2.08	0.52
25:BA:481:G:H2'	25:BA:507:A:N1	2.24	0.52
25:BA:572:A:C8	25:BA:572:A:H5'	2.43	0.52
25:BA:705:A:N6	25:BA:727:A:C1'	2.72	0.52
25:BA:728:G:O6	25:BA:762:U:C2'	2.50	0.52
25:BA:728:G:H4'	25:BA:729:G:C8	2.44	0.52
25:BA:860:U:H1'	25:BA:2267:A:C5'	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:887:A:O3'	25:BA:889:C:H5'	2.10	0.52
25:BA:972:G:OP2	25:BA:972:G:C8	2.48	0.52
25:BA:989:G:C3'	25:BA:989:G:C8	2.92	0.52
26:BB:81:G:C5	26:BB:82:G:N7	2.77	0.52
27:BC:108:MET:HE1	27:BC:134:ARG:HD3	1.89	0.52
27:BC:14:VAL:O	27:BC:15:ASP:HB2	2.10	0.52
25:BA:1799:G:C8	28:BD:183:ARG:NH1	2.74	0.52
25:BA:781:A:C1'	28:BD:222:ARG:NH1	2.70	0.52
28:BD:270:ILE:O	28:BD:271:ILE:HB	2.08	0.52
28:BD:46:GLN:O	28:BD:47:GLY:C	2.48	0.52
29:BE:98:PRO:HD3	29:BE:175:VAL:HG22	1.90	0.52
25:BA:659:C:C5'	30:BF:102:PRO:HD3	2.39	0.52
30:BF:181:LEU:O	30:BF:182:ASN:CB	2.55	0.52
25:BA:449:A:C4'	30:BF:52:LYS:NZ	2.71	0.52
25:BA:2311:A:C2	31:BG:43:LEU:HD23	2.44	0.52
32:BH:107:VAL:HG13	32:BH:152:ARG:CG	2.39	0.52
33:BK:9:LEU:HB2	33:BK:13:GLY:HA3	1.92	0.52
33:BK:43:ASN:O	33:BK:46:ALA:HB3	2.09	0.52
36:BN:110:GLY:O	36:BN:111:PHE:CD2	2.62	0.52
36:BN:2:ILE:HD12	36:BN:32:TYR:HB3	1.90	0.52
36:BN:97:ARG:CB	36:BN:97:ARG:NH2	2.69	0.52
37:BO:138:LEU:HD21	37:BO:145:PRO:HD3	1.90	0.52
37:BO:32:THR:HG1	37:BO:35:HIS:CG	2.27	0.52
39:BQ:65:LEU:O	39:BQ:68:ARG:HB3	2.10	0.52
40:BR:9:ARG:O	40:BR:12:PHE:HD2	1.90	0.52
40:BR:78:LEU:O	40:BR:78:LEU:HD22	2.09	0.52
40:BR:94:TYR:O	40:BR:99:LYS:HD2	2.09	0.52
42:BT:115:ALA:O	42:BT:116:ALA:C	2.48	0.52
42:BT:29:SER:OG	42:BT:30:LYS:N	2.42	0.52
42:BT:80:ILE:HA	42:BT:83:LEU:HD13	1.91	0.52
42:BT:96:ALA:O	42:BT:97:ASP:C	2.48	0.52
44:BV:13:SER:O	44:BV:17:VAL:HG22	2.09	0.52
46:BX:2:ARG:CZ	46:BX:2:ARG:HB3	2.38	0.52
46:BX:22:GLY:CA	46:BX:73:ARG:NH2	2.71	0.52
46:BX:95:LYS:HG2	46:BX:96:ILE:N	2.23	0.52
47:BY:111:VAL:HA	47:BY:116:VAL:O	2.08	0.52
38:BP:85:LYS:HZ2	48:BZ:10:THR:HG21	1.71	0.52
48:BZ:76:GLY:CA	48:BZ:78:TYR:HE1	2.22	0.52
34:BL:72:PRO:CG	34:BL:77:LEU:HG	2.39	0.52
1:AA:103:C:O2'	1:AA:172:A:N1	2.40	0.52
1:AA:1118:C:C2	1:AA:1156:G:N2	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1182:G:C4'	1:AA:1183:A:O5'	2.57	0.52
1:AA:1222:G:N3	1:AA:1223:C:O2	2.42	0.52
1:AA:1323:G:H4'	1:AA:1362(A):C:N3	2.24	0.52
1:AA:1412:C:C2'	1:AA:1413:A:H8	2.20	0.52
1:AA:1429:C:C2	1:AA:1430:C:C5	2.97	0.52
1:AA:270:A:C5	1:AA:271:C:C5	2.98	0.52
1:AA:339:C:C2	1:AA:340:U:C5	2.97	0.52
1:AA:409:G:C4	1:AA:410:G:C8	2.97	0.52
1:AA:448:A:HO2'	1:AA:449:C:H6	1.57	0.52
1:AA:438:G:H2'	1:AA:494:U:O4	2.09	0.52
1:AA:513:C:C2	1:AA:514:C:C5	2.96	0.52
1:AA:701:C:O2'	1:AA:702:A:OP2	2.27	0.52
1:AA:654:G:N2	1:AA:753:A:H1'	2.24	0.52
1:AA:766:A:H2'	1:AA:767:A:C8	2.45	0.52
1:AA:799:G:N1	1:AA:800:G:N3	2.58	0.52
1:AA:925:G:H1'	1:AA:1502:A:H1'	1.91	0.52
5:AE:198:ASP:O	5:AE:199:TYR:CD2	2.63	0.52
5:AE:74:LYS:NZ	5:AE:76:GLN:HG3	2.24	0.52
7:AG:88:VAL:O	7:AG:92:VAL:HG23	2.09	0.52
8:AH:105:VAL:HG12	8:AH:106:PRO:N	2.22	0.52
8:AH:31:LEU:HD12	8:AH:129:ILE:HA	1.91	0.52
9:AI:82:ARG:O	9:AI:85:VAL:HG23	2.09	0.52
10:AJ:118:VAL:CG1	10:AJ:122:HIS:NE2	2.73	0.52
10:AJ:13:GLN:O	10:AJ:14:PRO:O	2.27	0.52
10:AJ:153:HIS:CE1	14:AN:58:PRO:HD2	2.45	0.52
11:AK:96:GLY:HA2	11:AK:130:GLY:HA3	1.91	0.52
11:AK:35:ILE:HG22	11:AK:39:LEU:HD23	1.91	0.52
11:AK:22:GLU:CA	11:AK:63:LEU:HD22	2.34	0.52
11:AK:83:ILE:CB	11:AK:137:VAL:HG22	2.39	0.52
12:AL:105:ASP:O	12:AL:106:ALA:CB	2.56	0.52
12:AL:40:LEU:CB	12:AL:42:ARG:HB2	2.39	0.52
12:AL:67:GLY:N	12:AL:73:GLN:HE21	2.05	0.52
12:AL:6:GLY:CA	12:AL:80:GLY:O	2.57	0.52
13:AM:65:LEU:CD2	17:AQ:36:PHE:HZ	2.20	0.52
13:AM:44:VAL:HG22	13:AM:66:ARG:HB3	1.90	0.52
15:AO:117:ARG:HA	15:AO:119:LYS:O	2.09	0.52
15:AO:85:ILE:HD11	15:AO:98:TYR:HB2	1.88	0.52
16:AP:40:ASN:O	16:AP:42:ALA:N	2.42	0.52
18:AR:6:GLU:CD	18:AR:6:GLU:H	2.11	0.52
19:AS:21:VAL:HG11	19:AS:59:TRP:CG	2.43	0.52
22:AV:25:LYS:C	22:AV:25:LYS:HD2	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:986:A:H4'	22:AV:55:LYS:HD2	1.91	0.52
23:AW:75:ASN:O	23:AW:79:ARG:HG2	2.07	0.52
49:B1:27:LEU:HD13	49:B1:52:ILE:CD1	2.33	0.52
55:B7:58:ILE:HA	55:B7:61:LEU:CD1	2.31	0.52
25:BA:1009:A:C2	25:BA:1010:A:C4	2.97	0.52
25:BA:1032:A:H61	25:BA:1123:C:N4	2.07	0.52
25:BA:1019:U:O2	25:BA:1144:G:C2	2.63	0.52
25:BA:1177:A:C2	25:BA:1178:C:N3	2.78	0.52
25:BA:1204:A:C2	30:BF:187:VAL:C	2.82	0.52
25:BA:1223:C:C2	25:BA:1227:A:N1	2.77	0.52
25:BA:1259:G:C2'	25:BA:1260:G:C8	2.83	0.52
25:BA:1341:U:O4	25:BA:1398:C:H5'	2.09	0.52
25:BA:1376:C:O2'	25:BA:1377:G:H5'	2.09	0.52
25:BA:13:A:C8	25:BA:15:G:O6	2.62	0.52
25:BA:1463:C:H2'	25:BA:1464:C:O5'	2.10	0.52
25:BA:1472:A:N9	25:BA:1473:G:N7	2.57	0.52
25:BA:1479:G:N1	25:BA:1515:C:N4	2.58	0.52
25:BA:149:A:H8	25:BA:150:C:O4'	1.92	0.52
25:BA:154:G:O2'	25:BA:155:C:H5'	2.08	0.52
25:BA:1676:A:C8	25:BA:1677:A:N7	2.77	0.52
25:BA:1925:C:O2	25:BA:1929:G:O6	2.28	0.52
25:BA:1964:G:N1	25:BA:1967:C:H5	2.06	0.52
25:BA:1981:A:H5''	25:BA:1982:C:OP2	2.08	0.52
25:BA:1993:U:H2'	25:BA:1994:C:H6	1.74	0.52
25:BA:204:A:H4'	25:BA:205:G:C5'	2.39	0.52
25:BA:2135:A:H4'	25:BA:2136:C:C6	2.45	0.52
25:BA:2209:C:C6	25:BA:2209:C:H3'	2.44	0.52
25:BA:965:C:C4'	25:BA:2273:A:H1'	2.40	0.52
25:BA:2280:G:N1	25:BA:2281:C:C4	2.77	0.52
25:BA:2349:G:O6	25:BA:2350:C:C5	2.62	0.52
25:BA:2459:A:C2	25:BA:2492:U:O4	2.63	0.52
25:BA:2493:U:C4'	25:BA:2493:U:C6	2.91	0.52
25:BA:2599:G:O2'	25:BA:2600:A:O4'	2.27	0.52
25:BA:270(Q):C:H2'	25:BA:270(R):G:H8	1.74	0.52
25:BA:270(X):G:C5	25:BA:270(Y):G:H1'	2.45	0.52
25:BA:269:U:OP2	25:BA:270(Y):G:H2'	2.09	0.52
25:BA:2767:C:H2'	25:BA:2768:C:O5'	2.09	0.52
25:BA:2821:A:P	29:BE:110:GLY:HA3	2.49	0.52
25:BA:2824:C:C5	25:BA:2825:C:C2	2.97	0.52
25:BA:2874:C:H3'	25:BA:2874:C:OP2	2.10	0.52
25:BA:289:A:H2'	25:BA:351:G:N2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:412:A:C2'	25:BA:413:C:H5'	2.40	0.52
25:BA:458:G:O2'	25:BA:469:G:N1	2.31	0.52
25:BA:641:C:H2'	25:BA:642:G:H5'	1.91	0.52
25:BA:800:A:C8	25:BA:802:A:H5'	2.45	0.52
25:BA:919:G:H21	25:BA:2268:A:C5'	2.20	0.52
27:BC:77:ILE:C	27:BC:119:VAL:HG21	2.30	0.52
27:BC:29:VAL:O	27:BC:32:LEU:HB2	2.09	0.52
28:BD:95:LEU:O	28:BD:102:LYS:HB3	2.10	0.52
28:BD:145:VAL:HB	28:BD:155:LEU:HD22	1.89	0.52
28:BD:246:PRO:HG3	28:BD:252:TRP:HE3	1.71	0.52
28:BD:31:LYS:H	28:BD:31:LYS:HD2	1.73	0.52
28:BD:57:GLY:O	28:BD:58:HIS:CB	2.56	0.52
28:BD:62:TYR:HE1	28:BD:86:PRO:HB2	1.73	0.52
29:BE:131:ALA:HB1	29:BE:134:ILE:HD11	1.92	0.52
29:BE:100:GLU:N	29:BE:172:VAL:CG2	2.63	0.52
29:BE:185:LYS:O	29:BE:185:LYS:CD	2.57	0.52
30:BF:158:THR:CG2	30:BF:159:GLY:N	2.73	0.52
30:BF:176:LEU:C	30:BF:178:PRO:HD2	2.29	0.52
30:BF:80:ALA:HB1	30:BF:82:ILE:HD11	1.91	0.52
25:BA:1258:C:H5'	30:BF:84:VAL:HG21	1.90	0.52
31:BG:55:LYS:HG3	31:BG:148:MET:HG2	1.92	0.52
31:BG:19:LEU:HG	31:BG:22:ARG:NE	2.23	0.52
31:BG:35:GLU:O	31:BG:36:LYS:O	2.27	0.52
25:BA:2312:U:HO2'	31:BG:40:ASN:CG	2.11	0.52
32:BH:119:GLU:OE2	32:BH:119:GLU:HA	2.09	0.52
32:BH:43:VAL:CG1	32:BH:44:VAL:H	2.23	0.52
32:BH:26:VAL:HG11	32:BH:75:ALA:C	2.30	0.52
33:BK:6:LEU:N	33:BK:8:PRO:CD	2.73	0.52
33:BK:7:GLU:HA	33:BK:14:ASP:OD1	2.06	0.52
36:BN:24:VAL:HG21	36:BN:26:LYS:HG2	1.90	0.52
36:BN:87:ILE:HD12	36:BN:93:PRO:HA	1.90	0.52
36:BN:96:THR:O	36:BN:97:ARG:HB3	2.08	0.52
38:BP:124:LYS:HE2	38:BP:124:LYS:C	2.29	0.52
39:BQ:55:ALA:HA	39:BQ:80:PHE:CD1	2.43	0.52
41:BS:64:ARG:O	41:BS:65:LYS:O	2.27	0.52
41:BS:83:ILE:O	41:BS:84:GLN:C	2.47	0.52
42:BT:12:ARG:O	42:BT:13:LYS:C	2.47	0.52
25:BA:534:U:P	42:BT:24:TYR:HE2	2.32	0.52
44:BV:20:VAL:O	44:BV:24:ILE:HG12	2.08	0.52
47:BY:152:ALA:HB3	47:BY:168:GLU:CA	2.36	0.52
47:BY:14:LYS:O	47:BY:15:PRO:C	2.46	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BZ:60:PHE:N	48:BZ:60:PHE:CD2	2.78	0.52
25:BA:1061:U:OP2	25:BA:1062:G:O5'	2.26	0.52
25:BA:1104:C:H2'	25:BA:1105:U:H6	1.69	0.52
34:BL:82:ALA:CB	34:BL:99:ILE:HD11	2.40	0.52
1:AA:1009:G:O2'	1:AA:1010:G:H5'	2.09	0.52
33:BK:105:HIS:CD2	33:BK:105:HIS:O	2.62	0.52
1:AA:1017:G:H2'	1:AA:1018:C:O5'	2.09	0.52
1:AA:1127:G:O2'	1:AA:1148:U:N3	2.37	0.52
1:AA:1224:G:C2'	1:AA:1225:A:OP1	2.58	0.52
1:AA:1247:U:H2'	1:AA:1248:A:H8	1.73	0.52
1:AA:129(A):G:N2	1:AA:191(A):G:N9	2.56	0.52
1:AA:27:G:H2'	1:AA:28:G:H8	1.74	0.52
1:AA:123:C:HO2'	1:AA:290:C:H1'	1.63	0.52
1:AA:573:A:OP2	1:AA:573:A:H3'	2.09	0.52
1:AA:618:C:H6	1:AA:620:C:OP2	1.93	0.52
1:AA:702:A:O2'	1:AA:703:G:P	2.68	0.52
1:AA:728:A:N6	1:AA:764:C:O2'	2.34	0.52
1:AA:898:G:N1	1:AA:902:G:C6	2.77	0.52
1:AA:946:A:C2	1:AA:947:G:C5	2.98	0.52
1:AA:965:A:HO2'	1:AA:966:G:P	2.32	0.52
1:AA:994:A:H3'	1:AA:995:C:C6	2.44	0.52
2:AC:13:C:H2'	2:AC:14:A:H5'	1.92	0.52
2:AC:70:G:H21	2:AC:71:C:H1'	1.74	0.52
3:AD:19:G:C2	3:AD:57:G:N3	2.77	0.52
5:AE:101:MET:N	5:AE:108:ILE:HG13	2.24	0.52
5:AE:42:ILE:CD1	5:AE:202:PRO:C	2.77	0.52
5:AE:9:GLU:OE2	5:AE:12:GLU:HG2	2.09	0.52
6:AF:123:GLN:OE1	6:AF:123:GLN:HA	2.10	0.52
6:AF:12:LEU:O	6:AF:14:ILE:N	2.43	0.52
6:AF:204:LEU:O	6:AF:205:GLY:O	2.28	0.52
7:AG:127:THR:C	7:AG:128:VAL:O	2.42	0.52
7:AG:170:VAL:CG2	7:AG:176:LEU:CB	2.74	0.52
7:AG:85:LYS:CB	7:AG:85:LYS:NZ	2.72	0.52
8:AH:144:THR:O	8:AH:146:ALA:N	2.43	0.52
8:AH:147:ASP:O	8:AH:148:VAL:C	2.46	0.52
8:AH:78:HIS:CE1	11:AK:107:LEU:HD11	2.44	0.52
11:AK:121:ASP:O	11:AK:124:ALA:HB3	2.09	0.52
11:AK:35:ILE:O	11:AK:39:LEU:CD2	2.58	0.52
15:AO:117:ARG:HB3	15:AO:122:THR:HB	1.90	0.52
16:AP:62:ASN:C	16:AP:64:TRP:N	2.62	0.52
17:AQ:25:VAL:HG12	17:AQ:38:GLY:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:67:THR:CB	19:AS:70:ALA:H	2.19	0.52
15:AO:11:VAL:HG13	20:AT:29:HIS:CD2	2.45	0.52
49:B1:14:VAL:HA	49:B1:17:GLU:CD	2.29	0.52
51:B3:5:ILE:HD11	51:B3:10:VAL:N	2.25	0.52
51:B3:58:ARG:HH11	51:B3:58:ARG:CG	2.21	0.52
52:B4:4:HIS:C	52:B4:4:HIS:CD2	2.83	0.52
53:B5:8:LYS:C	53:B5:9:LEU:HD23	2.30	0.52
54:B6:20:ALA:N	54:B6:23:ARG:NH2	2.56	0.52
55:B7:26:LYS:NZ	55:B7:43:GLN:HA	2.25	0.52
55:B7:6:THR:C	55:B7:8:LYS:N	2.61	0.52
25:BA:1127:A:C6	25:BA:2518:A:H2	2.24	0.52
25:BA:1131:G:O2'	25:BA:1132:A:O5'	2.14	0.52
25:BA:1283:G:N2	25:BA:1285:G:C8	2.77	0.52
25:BA:1286:A:C2	25:BA:1329:U:N1	2.77	0.52
25:BA:1375:C:H2'	25:BA:1376:C:C6	2.42	0.52
25:BA:1484:G:C6	25:BA:1485:G:C5	2.97	0.52
25:BA:1534:G:H21	25:BA:1537:C:N4	2.07	0.52
25:BA:1552:G:N3	25:BA:1552:G:H2'	2.24	0.52
25:BA:1310:G:H1	25:BA:1604:C:H42	1.57	0.52
25:BA:171:G:H2'	25:BA:172:C:C5	2.45	0.52
25:BA:1853:A:C2	25:BA:1854:A:C4	2.97	0.52
25:BA:1964:G:C4	25:BA:1967:C:H5	2.26	0.52
25:BA:1975:G:H2'	25:BA:1976:U:C6	2.45	0.52
25:BA:2041:U:H2'	25:BA:2042:A:O4'	2.09	0.52
25:BA:2052:G:O2'	25:BA:2053:G:H5'	2.09	0.52
25:BA:2055:C:H5'	25:BA:2056:G:O5'	2.09	0.52
25:BA:2082:A:N3	25:BA:2083:G:C8	2.78	0.52
25:BA:2139:C:H2'	25:BA:2140:C:H6	1.74	0.52
25:BA:2312:U:O5'	25:BA:2312:U:H6	1.92	0.52
25:BA:957:A:C2	25:BA:2459:A:H4'	2.44	0.52
25:BA:2472:G:C3'	25:BA:2475:C:H42	2.23	0.52
25:BA:2570:G:N3	25:BA:2570:G:C2'	2.66	0.52
25:BA:2602:A:O2'	48:BZ:2:ALA:HB2	2.09	0.52
25:BA:2740:A:N6	25:BA:2764:A:C1'	2.72	0.52
25:BA:2747:G:O6	25:BA:2755:C:C5'	2.55	0.52
25:BA:2811:G:OP1	29:BE:60:ASN:ND2	2.36	0.52
25:BA:2845:G:OP1	41:BS:57:PHE:HB3	2.10	0.52
25:BA:311:A:C3'	25:BA:312:G:C8	2.91	0.52
25:BA:416:C:C3'	25:BA:416:C:C6	2.92	0.52
25:BA:37:C:C5'	25:BA:451:C:H5''	2.38	0.52
25:BA:27:G:H22	25:BA:512:G:H2'	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:515:A:H3'	25:BA:515:A:C8	2.44	0.52
25:BA:566:U:H3'	25:BA:567:A:C8	2.29	0.52
25:BA:587:C:H5	37:BO:30:THR:OG1	1.90	0.52
25:BA:919:G:O2'	25:BA:920:G:C5'	2.58	0.52
25:BA:943:U:H3'	25:BA:944:G:N7	2.25	0.52
25:BA:977:G:H22	25:BA:978:G:H21	1.57	0.52
25:BA:979:G:N7	25:BA:981:A:P	2.82	0.52
26:BB:54:G:C4	26:BB:55:U:C5	2.98	0.52
27:BC:101:GLN:OE1	27:BC:104:LEU:HD23	2.10	0.52
27:BC:142:ALA:O	27:BC:143:GLY:C	2.46	0.52
27:BC:190:ARG:NH1	27:BC:190:ARG:HG3	2.04	0.52
28:BD:105:ILE:O	28:BD:106:ILE:C	2.48	0.52
28:BD:138:VAL:HG22	28:BD:165:ILE:CG2	2.40	0.52
28:BD:17:THR:HG23	28:BD:17:THR:O	2.09	0.52
25:BA:1789:A:C1'	28:BD:222:ARG:CZ	2.87	0.52
29:BE:14:ILE:HD11	41:BS:14:TYR:HD2	1.74	0.52
29:BE:66:HIS:HD2	29:BE:71:GLY:N	1.93	0.52
30:BF:116:ASP:HA	30:BF:119:ARG:CG	2.39	0.52
31:BG:75:LYS:HD2	31:BG:87:PRO:HD3	1.91	0.52
35:BM:29:LYS:O	35:BM:31:ALA:N	2.43	0.52
35:BM:70:LYS:N	35:BM:70:LYS:HD3	2.17	0.52
25:BA:2640:G:O3'	35:BM:75:TYR:CZ	2.63	0.52
36:BN:110:GLY:O	36:BN:111:PHE:CB	2.56	0.52
36:BN:30:ALA:O	36:BN:31:LYS:HB2	2.09	0.52
36:BN:38:VAL:HA	36:BN:59:LYS:O	2.10	0.52
37:BO:111:ARG:CG	37:BO:111:ARG:HH21	2.22	0.52
37:BO:138:LEU:HD21	37:BO:145:PRO:HD2	1.91	0.52
37:BO:57:THR:O	37:BO:58:THR:CB	2.57	0.52
37:BO:58:THR:CG2	37:BO:60:MET:CG	2.87	0.52
38:BP:65:PHE:CD2	38:BP:106:VAL:HG12	2.44	0.52
38:BP:51:ARG:NH2	38:BP:63:LYS:HZ2	2.07	0.52
39:BQ:72:ASP:OD1	39:BQ:74:LYS:NZ	2.39	0.52
40:BR:66:ALA:HB1	40:BR:100:ALA:CB	2.39	0.52
40:BR:100:ALA:O	40:BR:101:LEU:C	2.46	0.52
43:BU:27:ALA:O	43:BU:33:VAL:CG2	2.55	0.52
43:BU:5:VAL:HG23	43:BU:12:TYR:CE2	2.44	0.52
44:BV:103:ILE:HD13	44:BV:103:ILE:H	1.75	0.52
44:BV:82:LEU:H	44:BV:98:LYS:HZ3	1.56	0.52
46:BX:12:THR:HG21	46:BX:71:LYS:CA	2.39	0.52
46:BX:6:HIS:HB3	46:BX:71:LYS:CG	2.22	0.52
47:BY:141:VAL:HG11	47:BY:150:LEU:CD1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:156:LYS:HE3	47:BY:156:LYS:CA	2.34	0.52
47:BY:25:PRO:HG2	47:BY:84:GLU:O	2.09	0.52
48:BZ:72:ARG:HE	48:BZ:75:LEU:HD22	1.72	0.52
25:BA:1072:C:O2'	25:BA:1093:G:N7	2.29	0.52
34:BL:23:VAL:O	34:BL:34:ILE:HG12	2.10	0.52
1:AA:124:G:N2	1:AA:238:G:H1'	2.25	0.52
1:AA:20:U:H5	1:AA:916:G:N1	2.07	0.52
1:AA:274:A:H5'	1:AA:275:G:OP1	2.10	0.52
1:AA:343:U:O2'	1:AA:344:A:O5'	2.20	0.52
1:AA:492:G:C5	1:AA:493:G:C8	2.97	0.52
1:AA:518:C:O2'	1:AA:519:C:OP2	2.24	0.52
1:AA:519:C:N4	1:AA:520:A:N3	2.56	0.52
1:AA:617:G:N2	1:AA:618:C:O2	2.43	0.52
1:AA:644:G:C5	1:AA:645:C:C5	2.98	0.52
1:AA:671:G:N3	1:AA:672:U:H1'	2.25	0.52
2:AC:19:G:N2	2:AC:56:C:N3	2.58	0.52
5:AE:187:LEU:HD23	5:AE:201:ILE:HG22	1.91	0.52
5:AE:213:LEU:O	5:AE:217:ARG:HG2	2.10	0.52
6:AF:41:GLY:O	6:AF:45:LYS:HB2	2.09	0.52
8:AH:49:PRO:O	8:AH:50:GLU:HG2	2.09	0.52
10:AJ:26:PHE:CZ	10:AJ:30:ILE:HG12	2.44	0.52
11:AK:109:ILE:O	11:AK:109:ILE:CG1	2.57	0.52
11:AK:22:GLU:N	11:AK:63:LEU:HD13	2.24	0.52
11:AK:9:MET:SD	11:AK:32:LYS:HB2	2.49	0.52
12:AL:106:ALA:O	12:AL:107:ARG:CG	2.55	0.52
12:AL:9:ARG:O	12:AL:10:ARG:HB3	2.09	0.52
12:AL:113:LYS:HZ3	12:AL:119:ALA:HB1	1.74	0.52
12:AL:65:VAL:O	12:AL:65:VAL:HG13	2.08	0.52
13:AM:10:GLY:N	13:AM:16:LEU:HD11	2.25	0.52
13:AM:79:ARG:CZ	13:AM:82:ILE:HB	2.39	0.52
14:AN:92:GLU:O	14:AN:94:ALA:N	2.42	0.52
15:AO:57:LYS:HE2	15:AO:67:THR:CG2	2.39	0.52
15:AO:60:LEU:HD11	15:AO:64:TYR:HB3	1.88	0.52
15:AO:75:HIS:CG	15:AO:76:ASN:N	2.74	0.52
16:AP:14:ARG:NH1	16:AP:41:PRO:O	2.37	0.52
19:AS:53:VAL:HG23	19:AS:54:GLU:H	1.74	0.52
20:AT:52:LYS:O	20:AT:53:LEU:O	2.27	0.52
21:AU:31:LEU:N	21:AU:31:LEU:HD12	2.24	0.52
21:AU:61:LYS:HD2	21:AU:64:ARG:HH12	1.74	0.52
21:AU:63:GLN:CA	21:AU:66:LEU:HG	2.40	0.52
24:AX:12:LYS:HB3	24:AX:22:ARG:HD3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B1:28:MET:O	49:B1:29:GLU:C	2.48	0.52
50:B2:15:TYR:O	50:B2:20:LYS:HD2	2.10	0.52
50:B2:7:LYS:HD2	50:B2:33:GLN:C	2.28	0.52
51:B3:59:PHE:CB	51:B3:62:ARG:NH1	2.73	0.52
51:B3:68:ARG:CB	51:B3:68:ARG:NH1	2.52	0.52
52:B4:15:ARG:O	52:B4:18:ALA:HB3	2.10	0.52
39:BQ:33:ARG:NE	52:B4:56:LYS:HE2	2.23	0.52
25:BA:1138:G:N2	25:BA:1139:G:C4	2.77	0.52
25:BA:1198:U:H2'	25:BA:1199:U:H6	1.68	0.52
25:BA:1254:A:C8	25:BA:1256:G:C8	2.98	0.52
25:BA:1289:C:C2	25:BA:1290:C:C5	2.98	0.52
25:BA:1344:G:O6	25:BA:1403:C:N3	2.42	0.52
25:BA:1405:U:C2'	25:BA:1406:U:C6	2.84	0.52
25:BA:1542:G:C2'	25:BA:1543:A:C5	2.93	0.52
25:BA:142:G:H5''	25:BA:1598:C:O2'	2.10	0.52
25:BA:1664:A:C2'	25:BA:1665:A:N7	2.66	0.52
25:BA:1786:A:C4'	25:BA:1938:A:N6	2.70	0.52
25:BA:1791:A:O5'	25:BA:1791:A:H8	1.91	0.52
25:BA:1869:G:O2'	25:BA:1871:A:N7	2.37	0.52
25:BA:1872:A:H2'	25:BA:1878:G:C4'	2.38	0.52
25:BA:1889:A:C1'	25:BA:2087:G:O4'	2.57	0.52
25:BA:1904:G:N2	25:BA:1905:C:C1'	2.72	0.52
25:BA:1953:A:C8	25:BA:1953:A:C3'	2.92	0.52
25:BA:2010:G:H2'	25:BA:2011:U:C5'	2.39	0.52
25:BA:204:A:H8	25:BA:204:A:OP1	1.93	0.52
25:BA:2098:U:C4	25:BA:2099:U:O4	2.62	0.52
25:BA:2230:G:H2'	25:BA:2231:C:H6	1.74	0.52
25:BA:2349:G:C6	25:BA:2350:C:C6	2.98	0.52
25:BA:2353:G:O2'	48:BZ:35:ASN:ND2	2.42	0.52
25:BA:2355:C:H5''	48:BZ:25:ARG:NH2	2.25	0.52
25:BA:2349:G:C2	25:BA:2369:A:C2	2.98	0.52
25:BA:2376:A:H2'	25:BA:2376:A:N3	2.25	0.52
25:BA:2435:A:C2'	25:BA:2436:G:O5'	2.58	0.52
25:BA:2536:G:H2'	25:BA:2537:U:H5'	1.91	0.52
25:BA:2546:U:C4'	25:BA:2565:A:C2	2.92	0.52
25:BA:2592:G:C2'	25:BA:2593:U:O5'	2.58	0.52
25:BA:2505:G:N2	25:BA:2610:C:C5	2.78	0.52
25:BA:2698:U:C2'	25:BA:2699:C:C6	2.86	0.52
25:BA:2730:C:H2'	25:BA:2731:G:H8	1.73	0.52
25:BA:2782:G:N3	25:BA:2783:G:C8	2.77	0.52
25:BA:27:G:HO2'	25:BA:28:A:H8	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:309:G:O6	25:BA:1210:A:O2'	2.25	0.52
25:BA:283:A:N1	25:BA:359:A:H5'	2.24	0.52
25:BA:359:A:O3'	25:BA:360:G:C8	2.63	0.52
25:BA:378:C:C2	25:BA:397:G:N2	2.77	0.52
25:BA:387:U:H2'	25:BA:387:U:O2	2.09	0.52
25:BA:484:C:O2'	25:BA:485:C:O5'	2.27	0.52
25:BA:501:A:C5	25:BA:502:A:N1	2.78	0.52
25:BA:13:A:N1	25:BA:526:A:N7	2.58	0.52
25:BA:638:G:C3'	25:BA:638:G:C8	2.93	0.52
25:BA:629:G:H5''	25:BA:649:G:O2'	2.09	0.52
25:BA:672:C:H3'	37:BO:38:GLN:OE1	2.08	0.52
25:BA:740:U:HO2'	25:BA:741:G:P	2.22	0.52
25:BA:774:A:C5'	25:BA:778:G:O4'	2.57	0.52
25:BA:464:U:C2	25:BA:788:A:N7	2.77	0.52
25:BA:791:C:H4'	25:BA:792:G:OP1	2.10	0.52
25:BA:795:C:O2'	25:BA:796:C:H5'	2.10	0.52
25:BA:6:A:C2	25:BA:7:G:N7	2.78	0.52
25:BA:83:G:N1	25:BA:102:G:H2'	2.24	0.52
25:BA:872:A:H5'	38:BP:69:PHE:HE2	1.74	0.52
25:BA:977:G:C2'	25:BA:978:G:H4'	2.39	0.52
25:BA:977:G:N2	25:BA:978:G:O2'	2.39	0.52
26:BB:16:G:H2'	26:BB:17:C:H6	1.74	0.52
26:BB:32:C:C2	26:BB:33:G:C8	2.98	0.52
26:BB:54:G:C6	26:BB:55:U:O4	2.63	0.52
26:BB:59:A:C3'	26:BB:60:C:H5'	2.40	0.52
26:BB:7:G:HO2'	40:BR:29:PHE:HE2	1.51	0.52
26:BB:78:A:C6	26:BB:99:A:N6	2.78	0.52
27:BC:49:ILE:HG13	27:BC:50:ASP:H	1.73	0.52
25:BA:1819:A:C5'	28:BD:178:PRO:HB2	2.28	0.52
28:BD:244:ARG:CD	28:BD:252:TRP:HD1	2.21	0.52
28:BD:62:TYR:N	28:BD:62:TYR:CD1	2.73	0.52
29:BE:36:ARG:HD2	29:BE:79:ARG:NE	2.25	0.52
29:BE:97:LYS:HD2	29:BE:98:PRO:CD	2.40	0.52
30:BF:110:LEU:HA	30:BF:183:VAL:CG2	2.38	0.52
30:BF:195:ASP:C	30:BF:197:ASP:N	2.61	0.52
30:BF:200:GLU:HA	30:BF:203:GLN:HB2	1.92	0.52
31:BG:87:PRO:O	31:BG:88:ILE:HG13	2.10	0.52
31:BG:60:LEU:HD21	31:BG:90:LEU:HD11	1.91	0.52
32:BH:148:ILE:O	32:BH:151:ILE:HG23	2.09	0.52
33:BK:45:LYS:O	33:BK:48:GLU:N	2.43	0.52
35:BM:123:TYR:CD2	35:BM:123:TYR:N	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:58:ASP:O	35:BM:59:LYS:C	2.46	0.52
35:BM:93:THR:O	35:BM:94:HIS:HD2	1.92	0.52
36:BN:109:LYS:O	36:BN:111:PHE:N	2.42	0.52
36:BN:9:GLU:OE2	36:BN:18:LYS:HB2	2.09	0.52
36:BN:17:ARG:HH22	36:BN:99:PHE:HD1	1.58	0.52
38:BP:112:GLU:C	38:BP:115:MET:HB2	2.29	0.52
38:BP:23:GLY:HA3	38:BP:101:ARG:CZ	2.37	0.52
25:BA:1653:G:O6	39:BQ:11:ASN:HA	2.10	0.52
39:BQ:55:ALA:O	39:BQ:80:PHE:CE1	2.63	0.52
41:BS:53:ARG:NH2	41:BS:102:ILE:HG12	2.09	0.52
41:BS:29:ARG:CG	41:BS:51:ARG:HG2	2.39	0.52
25:BA:18:C:H5"	42:BT:26:GLY:CA	2.40	0.52
42:BT:76:TYR:O	42:BT:77:SER:C	2.47	0.52
43:BU:69:LYS:HZ1	43:BU:70:ILE:HD12	1.74	0.52
43:BU:16:PRO:HA	43:BU:98:GLU:CB	2.39	0.52
44:BV:23:LEU:HD13	44:BV:35:ILE:HD11	1.91	0.52
45:BW:76:ARG:HG2	45:BW:76:ARG:HH11	1.74	0.52
45:BW:93:GLU:O	45:BW:94:GLY:C	2.46	0.52
47:BY:76:LEU:CG	47:BY:83:PRO:HB3	2.29	0.52
47:BY:39:VAL:HG21	47:BY:86:VAL:HG21	1.90	0.52
47:BY:98:MET:O	47:BY:126:VAL:CA	2.46	0.52
48:BZ:65:GLY:HA2	48:BZ:82:ARG:O	2.09	0.52
33:BK:147:GLN:O	33:BK:148:GLU:OXT	2.28	0.52
25:BA:1071:G:C2'	25:BA:1072:C:C5'	2.84	0.52
25:BA:1093:G:N2	25:BA:1099:G:C6	2.78	0.52
34:BL:23:VAL:O	34:BL:34:ILE:HA	2.10	0.52
34:BL:98:ARG:HD3	34:BL:139:VAL:CB	2.39	0.52
26:BB:87:G:OP2	26:BB:87:G:H8	1.93	0.52
1:AA:1038:C:H2'	1:AA:1039:C:H5	1.72	0.52
1:AA:81:G:O6	1:AA:87:A:N6	2.43	0.52
25:BA:2185:C:C2	25:BA:2186:G:C8	2.98	0.52
1:AA:1018:C:C4	1:AA:1019:C:C5	2.97	0.52
1:AA:1117:G:P	12:AL:104:ARG:NH1	2.83	0.52
1:AA:127:G:O2'	20:AT:2:PRO:O	2.28	0.52
1:AA:1413:A:C6	1:AA:1488:G:C2	2.98	0.52
1:AA:259:G:C2	1:AA:260:G:C4	2.98	0.52
1:AA:407:G:OP1	7:AG:115:ARG:HD2	2.09	0.52
1:AA:423:G:N2	1:AA:424:G:C4	2.78	0.52
1:AA:497:U:C2'	1:AA:497:U:O2	2.54	0.52
1:AA:511:C:O2'	1:AA:512:U:P	2.67	0.52
1:AA:543:C:P	7:AG:10:ARG:HH22	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:584:G:N1	1:AA:585:G:C5	2.77	0.52
1:AA:790:A:C5	1:AA:791:G:C5	2.97	0.52
1:AA:977:A:C4'	1:AA:982:U:O4	2.54	0.52
2:AC:3:C:H2'	2:AC:4:G:O5'	2.10	0.52
5:AE:180:LEU:HB3	5:AE:182:ILE:HD11	1.92	0.52
5:AE:42:ILE:HD13	5:AE:202:PRO:C	2.30	0.52
5:AE:48:MET:SD	5:AE:48:MET:N	2.83	0.52
5:AE:82:ARG:HG2	5:AE:83:MET:CE	2.40	0.52
6:AF:29:TYR:HD2	6:AF:29:TYR:C	2.13	0.52
6:AF:63:ASN:O	6:AF:64:VAL:CB	2.58	0.52
7:AG:162:LEU:O	7:AG:166:LYS:HE3	2.09	0.52
7:AG:192:GLU:OE1	7:AG:192:GLU:N	2.41	0.52
7:AG:20:TYR:HE1	7:AG:21:LEU:HD23	1.72	0.52
10:AJ:75:VAL:HG22	10:AJ:88:PRO:HB3	1.92	0.52
11:AK:98:LYS:NZ	11:AK:98:LYS:O	2.43	0.52
12:AL:4:TYR:HB3	12:AL:87:GLN:HB2	1.92	0.52
12:AL:65:VAL:HG21	12:AL:77:ILE:CD1	2.38	0.52
14:AN:22:HIS:HB2	14:AN:85:ARG:HB2	1.92	0.52
15:AO:6:THR:O	15:AO:10:LEU:HD12	2.10	0.52
15:AO:85:ILE:CG2	15:AO:85:ILE:O	2.56	0.52
16:AP:11:ARG:O	16:AP:45:VAL:HB	2.09	0.52
16:AP:71:ARG:O	16:AP:72:ALA:C	2.45	0.52
16:AP:84:ILE:HD11	16:AP:86:CYS:SG	2.50	0.52
18:AR:44:LYS:O	18:AR:46:HIS:N	2.38	0.52
18:AR:62:GLN:HG3	18:AR:66:LEU:CD2	2.39	0.52
19:AS:26:ARG:HE	19:AS:31:LYS:C	2.13	0.52
1:AA:227:G:H21	19:AS:62:VAL:HG12	1.73	0.52
1:AA:277:C:OP2	20:AT:41:LYS:HD3	2.08	0.52
52:B4:31:VAL:HB	52:B4:32:PRO:CD	2.40	0.52
25:BA:1612:C:H5'	54:B6:7:PRO:CD	2.40	0.52
55:B7:49:VAL:O	55:B7:53:PRO:CD	2.57	0.52
25:BA:1049:C:C2	25:BA:1050:A:N7	2.78	0.52
25:BA:1210:A:H5"	25:BA:1211:U:O5'	2.09	0.52
25:BA:1306:C:C2	25:BA:1307:A:C8	2.98	0.52
25:BA:1438:U:N3	25:BA:1553:A:N6	2.50	0.52
25:BA:1339:G:C2	25:BA:1603:A:H8	2.28	0.52
25:BA:1641:A:C2	25:BA:1642:G:H1'	2.44	0.52
25:BA:1668:A:C8	25:BA:1674:G:N7	2.78	0.52
25:BA:1698:A:O2'	25:BA:1699:G:P	2.67	0.52
25:BA:1743:G:O6	25:BA:1746:G:C6	2.62	0.52
25:BA:1822:G:C2	25:BA:1823:G:C5	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1899:G:H2'	25:BA:1900:A:H5''	1.91	0.52
25:BA:1922:G:C6	25:BA:1923:U:C2	2.97	0.52
25:BA:1975:G:C2'	25:BA:1976:U:O5'	2.57	0.52
25:BA:2344:U:O2	25:BA:2344:U:C3'	2.58	0.52
25:BA:2415:G:N1	25:BA:2416:C:C4	2.77	0.52
25:BA:2569:G:N1	25:BA:2570:G:N7	2.58	0.52
25:BA:2694:G:H8	25:BA:2694:G:O5'	1.93	0.52
25:BA:2748:A:N3	32:BH:67:LEU:CD1	2.73	0.52
25:BA:2781:A:N1	25:BA:2782:G:N3	2.58	0.52
25:BA:2808:U:C2	25:BA:2892:A:N6	2.78	0.52
25:BA:2840:C:C4	25:BA:2841:C:C5	2.97	0.52
25:BA:2843:G:N2	25:BA:2875:C:C2	2.78	0.52
25:BA:378:C:N3	25:BA:397:G:C2	2.77	0.52
25:BA:452:G:O6	25:BA:458:G:C6	2.63	0.52
25:BA:462:C:N3	25:BA:468:G:N2	2.58	0.52
25:BA:46:C:H2'	25:BA:47:C:C6	2.44	0.52
25:BA:493:G:N3	25:BA:494:G:C8	2.78	0.52
25:BA:51:G:C5'	25:BA:52:A:OP1	2.56	0.52
25:BA:587:C:O2'	25:BA:588:U:P	2.68	0.52
25:BA:646:A:C2	25:BA:647:G:C4	2.97	0.52
25:BA:650:C:H2'	25:BA:651:G:O5'	2.09	0.52
25:BA:668:G:C2	25:BA:670:A:N6	2.77	0.52
25:BA:797:C:C4	25:BA:798:G:N7	2.78	0.52
25:BA:975:G:N2	25:BA:976:C:O4'	2.42	0.52
26:BB:99:A:C6	26:BB:100:G:C6	2.97	0.52
26:BB:103:U:H1'	47:BY:72:ARG:CD	2.39	0.52
26:BB:71:C:H2'	26:BB:72:G:C4'	2.39	0.52
27:BC:190:ARG:HA	27:BC:193:ILE:CG1	2.40	0.52
27:BC:50:ASP:OD1	27:BC:52:ARG:HG3	2.10	0.52
27:BC:53:ARG:HB3	27:BC:55:ASP:OD1	2.09	0.52
25:BA:2175:C:OP1	27:BC:5:LYS:HB3	2.09	0.52
28:BD:111:LEU:HD12	28:BD:115:GLN:CD	2.30	0.52
28:BD:76:PRO:HA	28:BD:118:VAL:HG13	1.90	0.52
28:BD:76:PRO:HB3	28:BD:118:VAL:HG21	1.91	0.52
29:BE:131:ALA:O	29:BE:134:ILE:CG1	2.38	0.52
29:BE:179:GLU:O	29:BE:181:LEU:HG	2.09	0.52
29:BE:76:ARG:HG3	29:BE:76:ARG:O	2.10	0.52
29:BE:44:TYR:CD1	29:BE:82:ARG:NH1	2.77	0.52
30:BF:131:GLY:CA	30:BF:138:GLU:HB2	2.14	0.52
30:BF:157:VAL:O	30:BF:158:THR:CB	2.58	0.52
30:BF:155:LEU:CB	30:BF:189:THR:HG21	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:154:VAL:HG12	30:BF:191:ARG:HG2	1.90	0.52
31:BG:113:ARG:O	31:BG:114:ILE:CG2	2.55	0.52
31:BG:34:LEU:HD23	31:BG:172:LEU:HD21	1.92	0.52
31:BG:52:ILE:HA	31:BG:55:LYS:HB2	1.91	0.52
25:BA:1035:U:H5''	32:BH:59:ARG:HD3	1.90	0.52
33:BK:38:LEU:HD13	33:BK:39:ALA:HB3	1.92	0.52
35:BM:35:ARG:HH11	35:BM:48:MET:HE1	1.72	0.52
35:BM:67:LEU:HD23	35:BM:70:LYS:HZ1	1.74	0.52
36:BN:106:LEU:O	36:BN:109:LYS:CA	2.57	0.52
37:BO:115:LEU:O	37:BO:117:GLU:OE1	2.28	0.52
37:BO:113:LYS:HB2	37:BO:129:ALA:HB1	1.90	0.52
37:BO:124:LYS:CA	37:BO:138:LEU:HG	2.40	0.52
38:BP:34:LEU:O	38:BP:103:MET:O	2.28	0.52
38:BP:37:LEU:HD11	38:BP:130:LYS:CB	2.26	0.52
39:BQ:61:HIS:C	39:BQ:64:ARG:HH11	2.10	0.52
40:BR:9:ARG:HD3	40:BR:12:PHE:HD2	1.72	0.52
40:BR:96:GLY:O	40:BR:99:LYS:N	2.42	0.52
41:BS:98:LYS:O	41:BS:99:LEU:O	2.27	0.52
42:BT:101:ARG:NH1	42:BT:101:ARG:CB	2.61	0.52
42:BT:82:GLY:HA2	42:BT:117:GLN:NE2	2.25	0.52
46:BX:29:GLU:HG3	46:BX:34:LYS:O	2.09	0.52
47:BY:95:PRO:CB	47:BY:131:ARG:H	2.23	0.52
47:BY:169:GLU:HG2	47:BY:169:GLU:O	2.10	0.52
47:BY:118:GLN:OE1	47:BY:174:VAL:HG13	2.10	0.52
47:BY:45:ASP:O	47:BY:47:VAL:N	2.42	0.52
33:BK:58:LEU:C	33:BK:62:LYS:HE3	2.30	0.52
1:AA:1540:U:C2	1:AA:1541:U:C4	2.97	0.52
1:AA:88:C:H2'	1:AA:89:U:OP2	2.09	0.52
26:BB:2:C:OP2	26:BB:2:C:C6	2.63	0.52
9:AI:28:ARG:HD3	9:AI:28:ARG:N	2.25	0.52
25:BA:2152:G:C2	25:BA:2153:G:C5	2.97	0.52
27:BC:1:PRO:O	27:BC:2:LYS:HG3	2.09	0.52
1:AA:1015:A:C6	1:AA:1016:A:C6	2.97	0.52
1:AA:1297:C:H4'	1:AA:1298:C:O5'	2.10	0.52
1:AA:1464:G:H2'	1:AA:1465:C:C5	2.44	0.52
1:AA:1471:G:H2'	1:AA:1472:U:C6	2.45	0.52
1:AA:283:C:C2	1:AA:284:G:C8	2.98	0.52
1:AA:293:G:H21	1:AA:294:U:H1'	1.73	0.52
1:AA:319:G:H4'	1:AA:1468:A:H5'	1.92	0.52
1:AA:356:A:O2'	1:AA:357:G:H5'	2.10	0.52
1:AA:369:C:N3	1:AA:393:A:C2	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:373:A:H2'	1:AA:374:A:C8	2.43	0.52
1:AA:46:G:N1	1:AA:366:C:C2	2.77	0.52
1:AA:508:C:H5''	1:AA:509:A:OP1	2.10	0.52
1:AA:509:A:N3	1:AA:543:C:O2'	2.34	0.52
1:AA:564:C:H6	1:AA:564:C:O5'	1.93	0.52
1:AA:789:U:C6	1:AA:790:A:H5''	2.45	0.52
1:AA:794:A:C6	1:AA:795:C:N4	2.77	0.52
1:AA:814:A:C8	1:AA:816:A:N7	2.77	0.52
1:AA:895:G:C2	1:AA:896:C:C4	2.98	0.52
3:AD:21:A:C5	3:AD:46:G:N1	2.71	0.52
5:AE:70:PHE:HA	5:AE:163:PHE:O	2.10	0.52
6:AF:18:TRP:O	6:AF:21:ARG:HG2	2.09	0.52
7:AG:30:LYS:HZ3	7:AG:35:ARG:HH11	1.56	0.52
8:AH:76:ILE:CD1	8:AH:139:LEU:HD23	2.39	0.52
10:AJ:89:MET:CB	10:AJ:155:ARG:HH12	2.23	0.52
10:AJ:15:ASP:HB2	10:AJ:23:VAL:CB	2.37	0.52
10:AJ:17:VAL:HG12	10:AJ:18:TYR:HD1	1.74	0.52
10:AJ:43:PHE:HD2	10:AJ:44:TYR:CD2	2.28	0.52
10:AJ:5:ARG:O	10:AJ:7:ALA:N	2.43	0.52
11:AK:86:ILE:HG21	11:AK:133:LEU:CB	2.34	0.52
14:AN:39:PRO:C	14:AN:40:ILE:HD13	2.29	0.52
16:AP:10:PRO:HB2	16:AP:18:ALA:HA	1.92	0.52
1:AA:1228:C:OP1	16:AP:115:LYS:HB3	2.09	0.52
16:AP:22:ILE:HB	16:AP:25:ILE:HG13	1.92	0.52
17:AQ:48:ALA:HA	17:AQ:53:LEU:HD12	1.91	0.52
18:AR:57:LEU:N	18:AR:57:LEU:CD1	2.73	0.52
23:AW:43:LEU:HD12	23:AW:55:ILE:HD11	1.91	0.52
24:AX:6:ARG:HB3	24:AX:15:ARG:HH21	1.75	0.52
49:B1:46:ARG:HE	49:B1:50:ARG:HH22	1.58	0.52
50:B2:52:HIS:N	50:B2:52:HIS:HD1	2.08	0.52
52:B4:41:PRO:O	52:B4:42:PRO:C	2.48	0.52
52:B4:55:ARG:H	52:B4:55:ARG:NE	2.08	0.52
25:BA:686:G:OP1	54:B6:11:LYS:HE2	2.09	0.52
25:BA:458:G:C8	54:B6:38:GLY:O	2.63	0.52
55:B7:34:TRP:HA	55:B7:34:TRP:CE3	2.45	0.52
55:B7:34:TRP:CB	55:B7:36:LYS:HB2	2.37	0.52
25:BA:1044:G:C8	25:BA:1048:A:H1'	2.44	0.52
25:BA:1106:G:N1	25:BA:1107:G:C6	2.78	0.52
25:BA:1213:A:O2'	25:BA:1239:G:O4'	2.28	0.52
25:BA:1355:G:C6	25:BA:1377:G:N2	2.78	0.52
25:BA:1315:C:O2'	25:BA:1392:A:H1'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1532:C:N4	25:BA:1540:G:H1	2.08	0.52
25:BA:1613:G:C1'	54:B6:3:ARG:NE	2.73	0.52
25:BA:1685:C:HO2'	25:BA:1686:C:H5'	1.70	0.52
25:BA:1841:U:C2	25:BA:1842:G:N7	2.78	0.52
25:BA:1924:C:H2'	25:BA:1925:C:C6	2.42	0.52
25:BA:1935:G:C4	25:BA:1962:C:C4	2.98	0.52
25:BA:1967:C:O2	25:BA:1967:C:C2'	2.54	0.52
25:BA:2073:C:H2'	25:BA:2074:U:O4'	2.09	0.52
25:BA:2166:G:H1	25:BA:2172:U:H5	1.56	0.52
25:BA:2206:C:C2	25:BA:2207:C:C6	2.97	0.52
25:BA:919:G:N1	25:BA:2268:A:N7	2.57	0.52
25:BA:2333:A:H4'	25:BA:2335:A:H5'	1.92	0.52
25:BA:2354:G:O2'	25:BA:2355:C:H5'	2.10	0.52
25:BA:2370:G:C4	25:BA:2371:G:C8	2.98	0.52
25:BA:23:G:C6	25:BA:518:G:C6	2.97	0.52
25:BA:2406:U:OP2	25:BA:2411:A:N6	2.31	0.52
25:BA:2468:G:C2'	25:BA:2469:A:OP2	2.57	0.52
25:BA:2499:C:N4	25:BA:2500:U:C2	2.78	0.52
25:BA:2508:G:C2'	25:BA:2509:G:O5'	2.57	0.52
25:BA:2512:C:OP1	29:BE:120:TRP:CH2	2.63	0.52
25:BA:251:A:H2'	25:BA:252:G:O5'	2.10	0.52
25:BA:2543:G:H2'	25:BA:2544:G:O4'	2.10	0.52
25:BA:2633:G:C2	25:BA:2634:G:C4	2.98	0.52
25:BA:270(S):G:H2'	25:BA:270(T):G:H8	1.74	0.52
25:BA:2731:G:N2	25:BA:2732:G:N3	2.58	0.52
25:BA:2780:G:H2'	25:BA:2781:A:H5''	1.90	0.52
25:BA:2797:U:C6	25:BA:2797:U:O5'	2.63	0.52
25:BA:422:A:H2	25:BA:423:A:C4	2.26	0.52
25:BA:548:A:N6	25:BA:549:G:N3	2.57	0.52
25:BA:713:G:N2	25:BA:714:U:N1	2.58	0.52
25:BA:717:G:O6	25:BA:718:A:C2	2.62	0.52
25:BA:745:G:O2'	25:BA:746:A:C5'	2.49	0.52
25:BA:861:A:C8	25:BA:861:A:C3'	2.93	0.52
25:BA:885:C:H41	25:BA:889:C:H6	1.56	0.52
25:BA:943:U:H5'	37:BO:35:HIS:NE2	2.24	0.52
27:BC:149:ILE:O	27:BC:153:ILE:CD1	2.49	0.52
27:BC:18:LYS:HG2	27:BC:20:TYR:H	1.75	0.52
27:BC:209:LEU:HD11	27:BC:212:VAL:HG21	1.90	0.52
27:BC:45:ALA:HB2	27:BC:212:VAL:HA	1.90	0.52
28:BD:96:HIS:HA	28:BD:102:LYS:HG2	1.92	0.52
28:BD:111:LEU:HD12	28:BD:115:GLN:NE2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:136:ILE:HG22	28:BD:137:PRO:N	2.23	0.52
28:BD:158:ALA:C	28:BD:160:GLY:H	2.06	0.52
28:BD:202:LYS:HD2	28:BD:202:LYS:N	2.24	0.52
28:BD:60:ARG:HA	28:BD:62:TYR:HH	1.72	0.52
29:BE:48:GLN:O	29:BE:77:ILE:HG13	2.09	0.52
30:BF:26:ALA:O	30:BF:112:MET:SD	2.68	0.52
31:BG:120:LEU:HD22	31:BG:181:ARG:HB3	1.90	0.52
31:BG:75:LYS:HB3	31:BG:84:LYS:HB2	1.92	0.52
32:BH:107:VAL:HG22	32:BH:107:VAL:O	2.10	0.52
32:BH:19:VAL:CG1	32:BH:42:ARG:HH12	2.23	0.52
35:BM:10:GLU:CB	35:BM:39:ARG:NH1	2.68	0.52
36:BN:99:PHE:HA	36:BN:122:LEU:OXT	2.09	0.52
36:BN:24:VAL:HA	36:BN:39:ILE:CG2	2.36	0.52
36:BN:97:ARG:CG	36:BN:97:ARG:O	2.54	0.52
37:BO:80:TYR:CZ	37:BO:100:LEU:HD21	2.44	0.52
38:BP:48:GLU:O	38:BP:51:ARG:CG	2.58	0.52
38:BP:77:LYS:HG2	38:BP:87:LYS:HG3	1.91	0.52
38:BP:42:ILE:HG22	38:BP:95:ALA:HB3	1.92	0.52
40:BR:17:ARG:CD	40:BR:89:ARG:HB2	2.40	0.52
42:BT:69:CYS:CB	42:BT:79:PHE:HD2	2.23	0.52
42:BT:88:ILE:HG22	43:BU:55:ALA:HB1	1.91	0.52
43:BU:22:VAL:HG12	43:BU:24:LYS:NZ	2.24	0.52
43:BU:77:ALA:O	43:BU:84:LYS:HA	2.09	0.52
44:BV:13:SER:OG	44:BV:16:LYS:CE	2.58	0.52
45:BW:15:GLU:C	45:BW:16:LYS:HE2	2.29	0.52
46:BX:82:PRO:HD2	46:BX:96:ILE:HA	1.91	0.52
47:BY:150:LEU:HD22	47:BY:154:ASP:OD2	2.09	0.52
34:BL:77:LEU:HD23	34:BL:80:LYS:HG2	1.92	0.52
46:BX:88:LYS:O	46:BX:91:GLU:HB2	2.10	0.52
2:AC:28:C:O5'	2:AC:28:C:H6	1.93	0.52
1:AA:208:U:O3'	1:AA:209:U:C6	2.62	0.52
1:AA:748:C:O2'	1:AA:749:C:C5'	2.58	0.52
32:BH:109:PHE:O	32:BH:110:SER:HB3	2.09	0.52
1:AA:1183:A:H8	1:AA:1183:A:OP1	1.93	0.52
1:AA:1261:A:C6	1:AA:1274:G:H1'	2.45	0.52
1:AA:1274:G:H2'	1:AA:1274:G:N3	2.25	0.52
1:AA:1288:A:C2	1:AA:1289:A:N7	2.78	0.52
1:AA:1465:C:C2	1:AA:1466:C:C6	2.97	0.52
1:AA:1399:C:C5	1:AA:1502:A:N7	2.77	0.52
1:AA:378:G:C4	1:AA:379:C:C5	2.96	0.52
1:AA:388:G:O2'	1:AA:389:A:OP2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:414:A:H2'	1:AA:415:A:H8	1.75	0.52
1:AA:512:U:H2'	1:AA:513:C:H6	1.74	0.52
1:AA:577:G:N2	1:AA:578:C:C2	2.78	0.52
1:AA:687:A:H2'	1:AA:701:C:H41	1.75	0.52
1:AA:727:G:N7	1:AA:729:A:OP2	2.42	0.52
1:AA:923:A:O2'	1:AA:1399:C:OP2	2.28	0.52
1:AA:925:G:O6	1:AA:1392:G:C6	2.63	0.52
2:AC:17:C:H5'	2:AC:18:G:C5'	2.40	0.52
2:AC:37:A:C2'	2:AC:38:A:H8	2.06	0.52
5:AE:153:ARG:NH2	5:AE:156:LYS:HB2	2.24	0.52
5:AE:96:ARG:O	5:AE:98:LEU:HD22	2.09	0.52
6:AF:21:ARG:NH1	6:AF:56:ASP:OD2	2.41	0.52
6:AF:95:THR:HB	6:AF:97:LYS:HE2	1.90	0.52
7:AG:191:ARG:NH2	7:AG:194:LEU:CB	2.72	0.52
7:AG:19:LEU:HA	7:AG:21:LEU:CG	2.39	0.52
1:AA:427:U:OP1	7:AG:41:GLY:N	2.43	0.52
8:AH:56:GLN:O	8:AH:59:GLY:CA	2.58	0.52
10:AJ:107:ALA:HB3	10:AJ:123:GLU:OE1	2.10	0.52
10:AJ:62:PHE:HB3	10:AJ:63:LYS:HE2	1.91	0.52
10:AJ:76:ARG:O	10:AJ:156:TRP:CZ2	2.63	0.52
12:AL:4:TYR:CE1	12:AL:59:PHE:CZ	2.98	0.52
13:AM:16:LEU:HB3	13:AM:70:ARG:CG	2.40	0.52
13:AM:32:ALA:CB	13:AM:75:ILE:O	2.55	0.52
13:AM:9:ARG:HG3	13:AM:95:GLU:OE2	2.10	0.52
15:AO:115:LYS:O	15:AO:116:SER:C	2.48	0.52
17:AQ:45:ARG:HG3	17:AQ:46:GLU:N	2.25	0.52
21:AU:26:LEU:HD23	21:AU:29:PHE:CD1	2.45	0.52
50:B2:26:LEU:CG	50:B2:35:ARG:NH1	2.72	0.52
51:B3:28:LYS:HG2	51:B3:29:PRO:HD3	1.91	0.52
25:BA:2624:G:H1'	52:B4:22:HIS:CE1	2.44	0.52
25:BA:1147:C:C3'	25:BA:1147:C:C6	2.93	0.52
25:BA:118:A:C8	25:BA:119:A:C8	2.97	0.52
25:BA:331:A:C5	25:BA:1209:G:C2	2.97	0.52
25:BA:120:U:O2'	25:BA:121:G:OP2	2.28	0.52
25:BA:1422:G:C2'	25:BA:1422:G:N3	2.70	0.52
25:BA:1473:G:C4	25:BA:1474:C:C6	2.97	0.52
25:BA:1497:U:H3	25:BA:1577:C:P	2.33	0.52
25:BA:1296:G:C2	25:BA:1645:G:C4	2.98	0.52
25:BA:1675:C:H2'	25:BA:1676:A:O4'	2.09	0.52
25:BA:1742:C:C3'	25:BA:1743:G:C4'	2.88	0.52
25:BA:1772:G:H5'	25:BA:1773:A:OP2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1815:A:N3	25:BA:1817:G:O6	2.43	0.52
25:BA:1999:C:N3	25:BA:2000:G:C8	2.77	0.52
25:BA:2061:G:O2'	25:BA:2063:C:H5	1.92	0.52
25:BA:2375:G:N1	25:BA:2379:G:C6	2.78	0.52
25:BA:2380:C:N3	25:BA:2381:C:C5	2.77	0.52
25:BA:2396:G:O2'	25:BA:2397:G:H5'	2.09	0.52
25:BA:2392:A:C2	25:BA:2429:G:C2	2.97	0.52
25:BA:2447:G:C1'	25:BA:2501:C:C6	2.92	0.52
25:BA:2479:G:H2'	25:BA:2480:C:O4'	2.10	0.52
25:BA:2555:U:C5	25:BA:2556:C:N1	2.77	0.52
25:BA:2545:G:O2'	25:BA:2565:A:N1	2.36	0.52
25:BA:2590:A:C6	25:BA:2591:C:C4	2.97	0.52
25:BA:2626:C:C3'	25:BA:2626:C:C6	2.92	0.52
25:BA:2634:G:C2	25:BA:2635:C:C6	2.98	0.52
25:BA:2671:A:H2'	25:BA:2672:G:H8	1.75	0.52
25:BA:2675:A:C2'	25:BA:2676:C:C5'	2.88	0.52
25:BA:2704:C:H2'	25:BA:2705:A:O4'	2.10	0.52
25:BA:270(Q):C:O2'	25:BA:270(R):G:H5'	2.10	0.52
25:BA:2757:A:H2'	25:BA:2758:A:H5'	1.92	0.52
25:BA:2776:A:C8	25:BA:2781:A:N7	2.77	0.52
25:BA:2628:C:O2	25:BA:2782:G:OP1	2.28	0.52
25:BA:2876:G:OP2	25:BA:2876:G:H8	1.93	0.52
25:BA:2896:C:C2'	25:BA:2897:U:O5'	2.58	0.52
25:BA:293:U:O2'	25:BA:294:A:O4'	2.20	0.52
25:BA:301:G:C2'	25:BA:302:C:C6	2.89	0.52
25:BA:307:G:N2	25:BA:310:A:O5'	2.38	0.52
25:BA:470:A:C4'	25:BA:470:A:OP1	2.51	0.52
25:BA:476:G:O4'	25:BA:505:A:C2	2.52	0.52
25:BA:539:G:H2'	25:BA:540:G:C8	2.42	0.52
25:BA:666:G:OP1	37:BO:44:GLY:HA2	2.10	0.52
25:BA:720:C:C2	25:BA:721:C:C6	2.98	0.52
25:BA:728:G:H5'	28:BD:16:MET:HE1	1.92	0.52
25:BA:684:G:C4	25:BA:775:G:C6	2.97	0.52
25:BA:931:G:N2	50:B2:24:LYS:HB2	2.25	0.52
25:BA:935:C:C2	25:BA:936:C:C5	2.98	0.52
25:BA:973:A:H1'	25:BA:1188:U:C4	2.44	0.52
25:BA:976:C:C5'	25:BA:1156:A:H62	2.22	0.52
26:BB:100:G:C4	26:BB:101:A:N7	2.78	0.52
26:BB:44:G:C5'	26:BB:45:A:OP1	2.51	0.52
26:BB:7:G:O2'	40:BR:29:PHE:CE2	2.59	0.52
27:BC:26:ALA:HB1	27:BC:185:LEU:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:22:ILE:HG21	27:BC:190:ARG:NH1	2.25	0.52
27:BC:40:THR:HB	27:BC:217:THR:OG1	2.09	0.52
28:BD:111:LEU:CD1	28:BD:115:GLN:HE22	2.23	0.52
28:BD:10:THR:N	28:BD:11:PRO:CD	2.73	0.52
28:BD:13:ARG:HH11	28:BD:22:SER:HB3	1.74	0.52
25:BA:1789:A:H4'	28:BD:222:ARG:CD	2.39	0.52
1:AA:774:G:C5'	28:BD:276:LYS:HG3	2.40	0.52
28:BD:80:ALA:O	28:BD:81:ALA:CB	2.57	0.52
28:BD:61:LEU:HD12	28:BD:86:PRO:HG2	1.90	0.52
29:BE:134:ILE:O	29:BE:136:ARG:O	2.28	0.52
29:BE:169:ASN:C	29:BE:169:ASN:ND2	2.62	0.52
25:BA:2811:G:H5'	29:BE:60:ASN:HD21	1.74	0.52
30:BF:36:VAL:HG11	30:BF:183:VAL:CB	2.40	0.52
31:BG:110:ALA:CB	31:BG:139:LEU:HD11	2.40	0.52
25:BA:2305:A:H5''	31:BG:156:ASP:OD1	2.09	0.52
25:BA:2309:A:N7	31:BG:80:PHE:CE1	2.77	0.52
31:BG:94:LEU:H	31:BG:94:LEU:CD1	2.21	0.52
32:BH:103:LEU:HD23	32:BH:105:LEU:HD12	1.91	0.52
32:BH:153:LYS:HB3	32:BH:154:PRO:CD	2.40	0.52
25:BA:557:U:O3'	35:BM:112:LEU:HG	2.10	0.52
35:BM:21:LYS:HD3	35:BM:26:LEU:HD22	1.90	0.52
25:BA:2726:U:O2	36:BN:1:MET:HE3	2.10	0.52
36:BN:40:VAL:HG13	36:BN:40:VAL:O	2.09	0.52
37:BO:19:VAL:O	37:BO:19:VAL:CG2	2.51	0.52
37:BO:47:ASP:CB	37:BO:48:PRO:CD	2.87	0.52
37:BO:85:LEU:O	37:BO:86:LYS:CD	2.57	0.52
39:BQ:6:SER:OG	39:BQ:9:LYS:NZ	2.43	0.52
40:BR:73:LEU:HD23	40:BR:101:LEU:HD21	1.92	0.52
40:BR:81:GLY:C	40:BR:82:ILE:HG13	2.30	0.52
41:BS:54:ARG:NH1	41:BS:55:ASN:ND2	2.58	0.52
42:BT:48:ALA:C	42:BT:52:ARG:NE	2.62	0.52
42:BT:66:ASN:HA	42:BT:76:TYR:CE1	2.44	0.52
42:BT:97:ASP:O	42:BT:101:ARG:CG	2.52	0.52
43:BU:5:VAL:CG1	43:BU:37:VAL:HG22	2.40	0.52
25:BA:814:C:OP1	43:BU:85:LYS:CA	2.58	0.52
46:BX:14:LEU:HB2	46:BX:20:TYR:N	2.24	0.52
47:BY:111:VAL:HG22	47:BY:117:LEU:CD2	2.33	0.52
25:BA:1055:G:O5'	25:BA:1055:G:H8	1.93	0.52
34:BL:101:TRP:CE3	34:BL:105:LEU:HD11	2.44	0.52
1:AA:1002:G:N2	1:AA:1039:C:N4	2.58	0.52
1:AA:1003:G:C4	1:AA:1004:A:H1'	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:562:C:C2'	1:AA:562:C:O2	2.55	0.52
1:AA:749:C:H2'	1:AA:749:C:O2	2.09	0.52
1:AA:1010:G:C2	1:AA:1011:G:C8	2.98	0.52
3:AD:66:C:N3	3:AD:67:C:C4	2.78	0.52
1:AA:457:C:C6	1:AA:457:C:H3'	2.45	0.52
11:AK:55:GLY:O	11:AK:57:PRO:HD3	2.09	0.52
1:AA:1015:A:H1'	1:AA:1218:C:O2'	2.09	0.52
1:AA:1211:U:O2'	1:AA:1213:A:N3	2.42	0.52
1:AA:1268:A:O2'	1:AA:1269:A:O5'	2.23	0.52
1:AA:1285:A:O2'	1:AA:1286:A:P	2.68	0.52
1:AA:129(A):G:C8	1:AA:189:U:OP1	2.63	0.52
1:AA:1299:A:N7	1:AA:1301:U:C6	2.77	0.52
1:AA:976:G:N3	1:AA:1363:A:N6	2.55	0.52
1:AA:1480:G:O2'	1:AA:1481:U:H5'	2.10	0.52
1:AA:1401:G:H1	1:AA:1504:G:H22	1.49	0.52
1:AA:129(A):G:N1	1:AA:188:U:H4'	2.25	0.52
1:AA:22:G:C2'	1:AA:23:C:C6	2.91	0.52
1:AA:363:A:N3	1:AA:363:A:H2'	2.25	0.52
1:AA:440:A:OP2	1:AA:442:C:H5	1.93	0.52
1:AA:50:A:H5''	1:AA:51:A:O3'	2.10	0.52
1:AA:609:A:N3	1:AA:610:G:H1'	2.22	0.52
1:AA:913:A:O2'	1:AA:914:A:O5'	2.27	0.52
2:AC:58:A:O2'	2:AC:60:U:C5	2.55	0.52
5:AE:152:PHE:CE1	5:AE:159:PRO:CG	2.93	0.52
5:AE:76:GLN:O	5:AE:211:ILE:CD1	2.58	0.52
6:AF:26:LYS:CD	6:AF:26:LYS:N	2.73	0.52
7:AG:129:ASN:OD1	7:AG:145:GLU:N	2.31	0.52
8:AH:20:GLN:OE1	8:AH:21:ALA:N	2.42	0.52
9:AI:47:ARG:HD2	9:AI:56:PRO:HB2	1.92	0.52
10:AJ:111:ARG:CZ	10:AJ:122:HIS:HB2	2.40	0.52
10:AJ:140:ASP:O	10:AJ:142:GLU:N	2.42	0.52
10:AJ:31:MET:SD	10:AJ:36:LYS:NZ	2.77	0.52
11:AK:102:ARG:HH21	11:AK:105:ARG:C	2.12	0.52
13:AM:12:ASP:OD1	13:AM:14:LYS:N	2.42	0.52
14:AN:52:GLY:O	14:AN:55:LYS:HD3	2.10	0.52
15:AO:113:ARG:CZ	15:AO:115:LYS:O	2.58	0.52
15:AO:33:ARG:HB3	15:AO:85:ILE:HG22	1.90	0.52
16:AP:90:LEU:HA	16:AP:93:ARG:HB2	1.92	0.52
18:AR:37:ASN:HD22	18:AR:37:ASN:N	2.08	0.52
21:AU:18:ARG:C	21:AU:19:LYS:HG3	2.30	0.52
22:AV:36:ARG:HG3	22:AV:36:ARG:NH1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:34:LYS:C	23:AW:38:LYS:HE3	2.30	0.52
51:B3:5:ILE:HG12	51:B3:10:VAL:HB	1.92	0.52
52:B4:17:ASP:O	52:B4:21:SER:OG	2.24	0.52
52:B4:47:PRO:C	52:B4:48:GLU:CD	2.69	0.52
53:B5:15:GLU:HA	53:B5:15:GLU:OE1	2.09	0.52
53:B5:41:PRO:HD3	53:B5:49:HIS:HD1	1.75	0.52
54:B6:41:ARG:O	54:B6:42:LEU:HB2	2.10	0.52
55:B7:22:VAL:O	55:B7:48:PHE:CE2	2.62	0.52
55:B7:22:VAL:HG12	55:B7:23:VAL:N	2.23	0.52
25:BA:1023:U:H3'	25:BA:1023:U:C6	2.45	0.52
25:BA:1024:G:OP2	25:BA:1025:G:C2	2.63	0.52
25:BA:1137:G:H2'	25:BA:1138:G:O5'	2.09	0.52
25:BA:1159:U:C2'	25:BA:1160:G:O5'	2.58	0.52
25:BA:1159:U:H2'	25:BA:1160:G:O5'	2.10	0.52
25:BA:1161:C:C6	25:BA:1161:C:O5'	2.63	0.52
25:BA:749:C:H5'	25:BA:1271:G:H1'	1.91	0.52
25:BA:1311:G:C8	25:BA:1311:G:H3'	2.45	0.52
25:BA:1323:U:OP1	44:BV:84:ARG:NE	2.43	0.52
25:BA:1350:C:C2'	25:BA:1351:C:H5'	2.39	0.52
25:BA:1472:A:C6	25:BA:1518:C:N4	2.78	0.52
25:BA:1675:C:O2	25:BA:1676:A:N9	2.43	0.52
25:BA:1710:C:C2	25:BA:1711:C:C5	2.98	0.52
25:BA:1742:C:C4	25:BA:1743:G:C8	2.98	0.52
25:BA:1767:C:C4	25:BA:1768:U:C5	2.98	0.52
25:BA:1780:A:C3'	25:BA:1781:C:C5'	2.67	0.52
25:BA:1931:U:H6	25:BA:1932:A:H8	1.57	0.52
25:BA:1970:A:C2'	25:BA:1971:A:OP2	2.58	0.52
25:BA:1697:G:O2'	25:BA:1978:A:OP1	2.13	0.52
25:BA:2051:A:O3'	29:BE:141:ILE:CG1	2.57	0.52
25:BA:2346:A:N6	53:B5:37:ARG:NH2	2.57	0.52
25:BA:2351:G:N2	25:BA:2365:G:H2'	2.24	0.52
25:BA:2423:U:C1'	25:BA:2425:A:C4	2.92	0.52
25:BA:2450:A:C3'	25:BA:2451:A:H5'	2.40	0.52
25:BA:2459:A:H2'	25:BA:2460:U:C4'	2.38	0.52
25:BA:2471:C:C4	25:BA:2472:G:N7	2.78	0.52
25:BA:2474:C:OP2	25:BA:2475:C:N4	2.43	0.52
25:BA:2479:G:OP1	25:BA:2537:U:C1'	2.58	0.52
25:BA:2531:A:H2'	25:BA:2532:G:O5'	2.10	0.52
25:BA:2439:A:C8	25:BA:2586:C:H4'	2.44	0.52
25:BA:2590:A:H2'	25:BA:2591:C:H6	1.74	0.52
25:BA:2734:A:H2	29:BE:203:LYS:HB3	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2746:U:O2'	32:BH:139:GLN:HB2	2.10	0.52
25:BA:282:A:C8	25:BA:282:A:C3'	2.92	0.52
25:BA:428:A:C2'	25:BA:428:A:N3	2.70	0.52
25:BA:447:A:H4'	25:BA:447:A:OP1	2.10	0.52
25:BA:508:G:C5'	25:BA:509:C:OP1	2.58	0.52
25:BA:563:G:C2	25:BA:564:C:N3	2.78	0.52
25:BA:714:U:O4'	25:BA:714:U:P	2.68	0.52
25:BA:586:A:C6	25:BA:810:U:H5'	2.41	0.52
25:BA:857:C:OP1	48:BZ:71:ASP:OD2	2.28	0.52
25:BA:864:G:H2'	25:BA:865:C:H1'	1.91	0.52
25:BA:892:G:C4	25:BA:893:C:C5	2.98	0.52
26:BB:9:G:N2	26:BB:10:C:N3	2.58	0.52
26:BB:14:U:H5	26:BB:15:A:H2	1.56	0.52
26:BB:75:G:N2	47:BY:85:HIS:CG	2.77	0.52
28:BD:176:ARG:HH22	28:BD:270:ILE:CD1	2.23	0.52
28:BD:24:ILE:HG22	28:BD:25:THR:N	2.10	0.52
28:BD:263:ARG:O	28:BD:264:LYS:C	2.47	0.52
28:BD:267:SER:HG	28:BD:268:ARG:H	1.56	0.52
28:BD:94:LEU:CD1	28:BD:94:LEU:C	2.78	0.52
25:BA:2571:C:HO2'	29:BE:146:THR:CB	2.23	0.52
29:BE:151:TYR:OH	29:BE:152:LYS:HG3	2.10	0.52
29:BE:38:THR:N	29:BE:41:LYS:O	2.43	0.52
30:BF:103:LYS:C	30:BF:106:ARG:HG2	2.29	0.52
30:BF:7:TYR:N	30:BF:20:LEU:CD2	2.67	0.52
30:BF:43:LYS:HE3	30:BF:98:SER:HB3	1.92	0.52
31:BG:64:THR:HB	31:BG:102:PHE:CZ	2.45	0.52
31:BG:107:LEU:HD21	31:BG:177:GLY:O	2.10	0.52
36:BN:1:MET:SD	36:BN:2:ILE:HG12	2.50	0.52
37:BO:48:PRO:HA	37:BO:51:PHE:HB2	1.90	0.52
38:BP:42:ILE:HD12	38:BP:47:ILE:CG1	2.38	0.52
38:BP:59:ARG:HH12	47:BY:177:PRO:CB	2.23	0.52
39:BQ:45:ARG:HG2	39:BQ:45:ARG:HH11	1.75	0.52
39:BQ:52:ILE:C	39:BQ:52:ILE:HD13	2.30	0.52
39:BQ:7:GLY:O	39:BQ:8:ARG:O	2.28	0.52
41:BS:35:LYS:O	41:BS:36:GLU:C	2.49	0.52
41:BS:5:ALA:HB3	41:BS:6:LEU:HD13	1.91	0.52
46:BX:97:ARG:O	46:BX:98:VAL:HG22	2.10	0.52
48:BZ:60:PHE:HD2	48:BZ:60:PHE:N	2.08	0.52
33:BK:130:TYR:O	33:BK:132:PRO:HD3	2.09	0.52
1:AA:1369:C:C2'	1:AA:1370:G:O4'	2.58	0.52
1:AA:1419:G:C6	1:AA:1482:G:C2	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1487:G:C2	1:AA:1488:G:C8	2.98	0.52
1:AA:1495:U:H1'	25:BA:1912:A:H1'	1.91	0.52
1:AA:769:G:H5'	1:AA:1513:A:H4'	1.92	0.52
1:AA:67:C:C4'	1:AA:172:A:C1'	2.88	0.52
1:AA:22:G:H2'	1:AA:23:C:O4'	2.09	0.52
1:AA:265:G:O2'	1:AA:266:G:C5'	2.50	0.52
1:AA:478:A:C5	1:AA:479:C:N4	2.78	0.52
1:AA:494:U:C2'	1:AA:495:A:O5'	2.57	0.52
1:AA:527:G:O2'	1:AA:535:A:N6	2.42	0.52
1:AA:718:G:H1'	14:AN:116:HIS:HA	1.91	0.52
1:AA:722:A:C4	1:AA:724:G:C8	2.98	0.52
1:AA:767:A:C2'	1:AA:768:A:H5'	2.39	0.52
1:AA:869:G:H4'	1:AA:872:A:C8	2.45	0.52
1:AA:895:G:C2	1:AA:896:C:C5	2.98	0.52
1:AA:961:U:H5	1:AA:983:A:C8	2.28	0.52
1:AA:9:G:N2	1:AA:10:A:C4	2.78	0.52
3:AD:50:G:O2'	3:AD:51:C:H5'	2.10	0.52
3:AD:72:C:H2'	3:AD:73:A:H8	1.75	0.52
5:AE:138:LEU:C	5:AE:141:GLU:HB3	2.30	0.52
5:AE:164:VAL:CG1	5:AE:186:ALA:CB	2.87	0.52
5:AE:170:GLU:CB	5:AE:174:VAL:HG23	2.33	0.52
7:AG:60:GLU:CD	7:AG:202:LEU:HB2	2.29	0.52
7:AG:83:SER:N	7:AG:89:THR:CG2	2.69	0.52
8:AH:68:GLU:HA	8:AH:68:GLU:OE2	2.09	0.52
9:AI:14:LEU:CD2	9:AI:18:GLN:HG2	2.40	0.52
9:AI:14:LEU:HD13	9:AI:18:GLN:CB	2.34	0.52
10:AJ:41:ARG:HH11	10:AJ:41:ARG:CG	2.23	0.52
11:AK:101:PRO:O	11:AK:102:ARG:HG3	2.10	0.52
13:AM:48:THR:OG1	13:AM:62:HIS:CD2	2.62	0.52
1:AA:1228:C:P	16:AP:115:LYS:HB3	2.50	0.52
18:AR:74:ASP:CG	18:AR:74:ASP:O	2.47	0.52
19:AS:19:ILE:HG13	19:AS:38:TYR:CA	2.40	0.52
20:AT:27:PHE:HB2	20:AT:28:PRO:HD2	1.92	0.52
21:AU:74:ARG:HH11	21:AU:81:PHE:HB3	1.75	0.52
22:AV:22:LEU:C	22:AV:24:ALA:H	2.11	0.52
51:B3:43:TYR:HA	51:B3:61:ARG:CZ	2.34	0.52
53:B5:30:THR:CB	53:B5:31:PRO:CD	2.78	0.52
53:B5:25:LYS:HD3	55:B7:35:GLN:CG	2.40	0.52
25:BA:1022:G:N3	25:BA:1024:G:N2	2.55	0.52
25:BA:1358:G:N1	25:BA:1372:U:OP2	2.40	0.52
25:BA:1417:C:C4	25:BA:1582:C:O2	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:144:C:C2'	25:BA:145:G:H5'	2.40	0.52
25:BA:1543:A:P	25:BA:1544:C:H5''	2.50	0.52
25:BA:1571:A:C2	25:BA:1572:A:N7	2.78	0.52
25:BA:1614:A:N3	25:BA:1614:A:C2'	2.73	0.52
25:BA:1657:C:O2'	25:BA:1658:C:C4'	2.58	0.52
25:BA:1690:A:N6	25:BA:1697:G:H21	2.07	0.52
25:BA:1952:A:C3'	25:BA:1952:A:C8	2.92	0.52
25:BA:2206:C:H5'	25:BA:2206:C:C6	2.33	0.52
25:BA:2452:C:C4	25:BA:2453:A:N1	2.78	0.52
25:BA:2543:G:C5	25:BA:2544:G:C6	2.97	0.52
25:BA:2578:G:N2	25:BA:2579:C:N3	2.57	0.52
25:BA:747:U:C4	25:BA:2613:U:H5	2.28	0.52
25:BA:2659:G:H2'	25:BA:2660:A:C3'	2.40	0.52
25:BA:2671:A:HO2'	25:BA:2672:G:H5'	1.72	0.52
25:BA:2712(A):A:H8	25:BA:2712(A):A:H3'	1.75	0.52
25:BA:2734:A:H2'	29:BE:203:LYS:HE3	1.92	0.52
25:BA:2740:A:C2'	25:BA:2741:A:C8	2.90	0.52
25:BA:2754:U:C5	25:BA:2754:U:OP2	2.63	0.52
25:BA:2781:A:H3'	25:BA:2781:A:H8	1.70	0.52
25:BA:280:C:OP2	25:BA:280:C:O4'	2.28	0.52
25:BA:2872:G:C2	25:BA:2873:A:N6	2.78	0.52
25:BA:325:G:C8	25:BA:325:G:H3'	2.45	0.52
25:BA:515:A:H8	25:BA:515:A:C5'	2.19	0.52
25:BA:565:C:O3'	25:BA:1253:A:H2	1.93	0.52
25:BA:648:G:H2'	25:BA:649:G:C8	2.33	0.52
25:BA:673:C:H2'	25:BA:674:G:C5'	2.38	0.52
25:BA:66:C:C2	25:BA:67:U:C5	2.98	0.52
25:BA:783:A:H5''	28:BD:226:MET:HG3	1.90	0.52
25:BA:799:G:C6	25:BA:800:A:N1	2.78	0.52
25:BA:814:C:H4'	25:BA:1224:G:N2	2.25	0.52
25:BA:848:G:O2'	25:BA:934:G:H4'	2.09	0.52
25:BA:885:C:N4	25:BA:889:C:H1'	2.25	0.52
25:BA:8:A:H5'	35:BM:51:PHE:CZ	2.45	0.52
25:BA:973:A:C8	25:BA:973:A:C3'	2.91	0.52
26:BB:33:G:N2	26:BB:34:U:C2	2.78	0.52
26:BB:49:C:H2'	26:BB:50:G:H8	1.73	0.52
26:BB:82:G:H2'	26:BB:83:G:H8	1.73	0.52
28:BD:131:LEU:HG	28:BD:135:PHE:HB2	1.92	0.52
28:BD:198:ASN:OD1	28:BD:199:ALA:N	2.43	0.52
28:BD:33:LEU:HA	28:BD:83:GLU:OE1	2.10	0.52
29:BE:56:PRO:O	29:BE:58:ARG:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:60:ASN:HA	29:BE:63:LEU:HD12	1.90	0.52
29:BE:91:VAL:O	29:BE:91:VAL:CG2	2.58	0.52
30:BF:106:ARG:CG	30:BF:107:LYS:N	2.73	0.52
30:BF:5:ALA:O	30:BF:20:LEU:HD22	2.09	0.52
16:AP:7:VAL:HG11	31:BG:140:ILE:HG21	1.90	0.52
31:BG:68:PRO:CG	31:BG:90:LEU:HD21	2.40	0.52
31:BG:94:LEU:N	31:BG:94:LEU:CD1	2.73	0.52
32:BH:115:VAL:HG22	32:BH:116:GLU:H	1.75	0.52
32:BH:51:ARG:HE	32:BH:51:ARG:HA	1.75	0.52
25:BA:1006:C:H5''	35:BM:32:THR:HG23	1.92	0.52
36:BN:114:ILE:O	36:BN:117:LEU:HD23	2.09	0.52
36:BN:11:ALA:HB2	36:BN:17:ARG:NE	2.25	0.52
25:BA:2726:U:H1'	36:BN:1:MET:HE1	1.91	0.52
36:BN:47:ILE:HG12	36:BN:49:ARG:O	2.10	0.52
37:BO:122:PRO:CB	37:BO:137:LYS:C	2.79	0.52
38:BP:102:VAL:HG22	38:BP:104:PHE:CD2	2.45	0.52
38:BP:25:ASP:OD1	38:BP:25:ASP:N	2.43	0.52
38:BP:48:GLU:C	38:BP:51:ARG:HG2	2.30	0.52
38:BP:80:GLU:OE1	38:BP:80:GLU:C	2.49	0.52
38:BP:85:LYS:CG	38:BP:86:GLY:N	2.73	0.52
38:BP:6:ARG:NH2	38:BP:8:LYS:CG	2.73	0.52
40:BR:51:ALA:C	40:BR:73:LEU:HG	2.30	0.52
41:BS:2:ASN:ND2	41:BS:3:ARG:CZ	2.73	0.52
41:BS:33:LYS:HB3	41:BS:45:PHE:CG	2.45	0.52
41:BS:65:LYS:CD	41:BS:75:ILE:HD13	2.40	0.52
42:BT:47:TYR:HE2	43:BU:75:PHE:HA	1.74	0.52
42:BT:49:HIS:N	42:BT:52:ARG:NE	2.58	0.52
42:BT:86:ALA:HB3	42:BT:90:VAL:CG2	2.40	0.52
42:BT:61:TRP:HZ3	42:BT:93:LYS:C	2.14	0.52
43:BU:28:GLU:OE1	43:BU:94:LEU:HB2	2.09	0.52
45:BW:12:VAL:HA	45:BW:29:TRP:HE1	1.73	0.52
45:BW:29:TRP:HZ3	45:BW:78:LYS:HB2	1.70	0.52
45:BW:18:TYR:CE1	45:BW:96:ILE:HG13	2.45	0.52
47:BY:102:LEU:HD22	47:BY:137:ILE:HB	1.92	0.52
47:BY:1:MET:HG2	47:BY:59:LEU:HB3	1.91	0.52
48:BZ:26:TYR:CE1	48:BZ:29:GLN:NE2	2.79	0.52
48:BZ:38:VAL:HG11	48:BZ:45:PHE:CE1	2.45	0.52
48:BZ:52:GLY:C	48:BZ:60:PHE:CE2	2.83	0.52
33:BK:115:ALA:HB3	33:BK:128:LEU:HD22	1.92	0.52
25:BA:1095:A:C2'	25:BA:1096:A:O4'	2.52	0.52
1:AA:843:U:O2'	1:AA:848:C:OP1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:88:C:O2'	1:AA:89:U:O5'	2.28	0.52
8:AH:87:SER:OG	8:AH:131:ILE:HG12	2.10	0.52
1:AA:747:C:C2'	1:AA:748:C:O4'	2.58	0.52
1:AA:1091:U:O2	1:AA:1095:U:C4	2.63	0.51
1:AA:1261:A:H3'	1:AA:1262:C:C5	2.45	0.51
1:AA:1358:U:H5''	1:AA:1359:C:OP2	2.10	0.51
1:AA:1430:C:C2'	1:AA:1431:C:O5'	2.58	0.51
1:AA:152:A:OP2	1:AA:153:C:H5	1.92	0.51
1:AA:179:A:C4	1:AA:180:U:C6	2.98	0.51
1:AA:302:G:C8	1:AA:302:G:H5''	2.45	0.51
1:AA:308:C:H2'	1:AA:309:G:C5'	2.41	0.51
1:AA:30:U:HO2'	1:AA:31:G:P	2.34	0.51
1:AA:372:C:N4	1:AA:389:A:N6	2.40	0.51
1:AA:405:U:O4	7:AG:2:GLY:HA2	2.10	0.51
1:AA:424:G:C2	1:AA:425:G:C8	2.98	0.51
1:AA:449:C:N3	1:AA:450:G:H1'	2.25	0.51
1:AA:501:C:OP2	15:AO:124:LYS:CE	2.59	0.51
1:AA:560:U:C2	1:AA:566:G:H1'	2.45	0.51
1:AA:127:G:OP1	1:AA:635:G:H1'	2.10	0.51
1:AA:643:C:H2'	1:AA:643:C:O2	2.10	0.51
1:AA:686:U:C2'	1:AA:687:A:O5'	2.58	0.51
1:AA:945:G:C2	1:AA:1337:G:C2	2.98	0.51
2:AC:7:G:O2'	2:AC:8:U:P	2.68	0.51
2:AC:9:G:N3	2:AC:45:G:H2'	2.24	0.51
5:AE:167:PRO:O	5:AE:174:VAL:HG21	2.09	0.51
5:AE:20:GLU:O	5:AE:21:ARG:O	2.28	0.51
7:AG:107:ARG:HD2	7:AG:174:LEU:HD11	1.92	0.51
8:AH:28:PHE:CE1	8:AH:50:GLU:N	2.76	0.51
1:AA:670:G:O2'	9:AI:77:ARG:NH2	2.43	0.51
12:AL:112:LYS:CB	12:AL:117:HIS:O	2.55	0.51
12:AL:32:ASP:CG	12:AL:33:PHE:N	2.63	0.51
1:AA:1177:G:OP1	12:AL:93:ARG:CZ	2.58	0.51
14:AN:34:ASP:HB2	14:AN:35:PRO:CD	2.40	0.51
14:AN:42:TRP:C	14:AN:42:TRP:CE3	2.83	0.51
15:AO:50:SER:O	15:AO:51:ALA:CB	2.58	0.51
16:AP:29:ARG:NH1	16:AP:66:LEU:HB3	2.26	0.51
19:AS:32:TYR:CD1	19:AS:32:TYR:N	2.78	0.51
20:AT:46:ASP:OD2	20:AT:46:ASP:C	2.47	0.51
20:AT:4:LYS:CD	20:AT:5:VAL:H	2.15	0.51
20:AT:61:GLU:HA	20:AT:71:PHE:CE1	2.45	0.51
20:AT:68:ARG:N	20:AT:70:ARG:NH2	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:75:ILE:O	21:AU:76:LEU:C	2.48	0.51
24:AX:21:TYR:O	24:AX:22:ARG:CB	2.58	0.51
1:AA:1286:A:H4'	24:AX:25:LYS:HE2	1.90	0.51
49:B1:13:PRO:HG2	49:B1:15:GLU:HG3	1.90	0.51
50:B2:6:VAL:CB	50:B2:35:ARG:NH2	2.73	0.51
51:B3:58:ARG:HB2	51:B3:59:PHE:CZ	2.45	0.51
53:B5:12:GLU:HG3	53:B5:54:ILE:HA	1.92	0.51
55:B7:39:LYS:HD2	55:B7:40:GLU:OE1	2.10	0.51
56:B8:24:TYR:HE1	56:B8:37:GLY:N	2.08	0.51
25:BA:1020:A:HO2'	25:BA:1140:C:N4	2.08	0.51
25:BA:112:U:C2'	25:BA:113:G:O5'	2.58	0.51
25:BA:1222:C:C2'	25:BA:1223:C:H5'	2.40	0.51
25:BA:1236:G:C2'	25:BA:1237:A:O5'	2.58	0.51
25:BA:122:G:H2'	25:BA:123:G:H8	1.74	0.51
25:BA:1201:C:H41	25:BA:1241:A:N6	1.97	0.51
25:BA:1299:G:H8	25:BA:1299:G:H3'	1.74	0.51
25:BA:1359:A:N6	25:BA:1360:A:N7	2.58	0.51
25:BA:141:A:C2	25:BA:141(A):C:C4'	2.92	0.51
25:BA:1444:G:O6	25:BA:1466:G:C2	2.62	0.51
25:BA:1534:G:O5'	25:BA:1534:G:H8	1.93	0.51
25:BA:1542:G:N7	25:BA:1544:C:C2	2.78	0.51
25:BA:1582:C:C3'	25:BA:1583:A:O4'	2.58	0.51
25:BA:1649:G:C2	25:BA:1650:G:N7	2.78	0.51
25:BA:199:A:H5'	25:BA:200:U:OP2	2.10	0.51
25:BA:2003:G:C6	25:BA:2004:G:C6	2.98	0.51
25:BA:2016:U:O4'	52:B4:6:VAL:CG1	2.58	0.51
25:BA:2051:A:N3	25:BA:2614:A:C6	2.78	0.51
25:BA:2057:A:H2'	25:BA:2058:A:H8	1.75	0.51
25:BA:2209:C:O2'	25:BA:2210:G:C3'	2.57	0.51
25:BA:2227:A:N6	25:BA:2228:G:C5	2.78	0.51
25:BA:2287:A:N1	25:BA:2346:A:C6	2.78	0.51
25:BA:2481:G:O2'	25:BA:2482:G:H8	1.93	0.51
25:BA:2492:U:O2	25:BA:2493:U:C6	2.63	0.51
25:BA:2591:C:C3'	25:BA:2592:G:H8	2.22	0.51
25:BA:2618:G:O2'	25:BA:2619:C:H5'	2.10	0.51
25:BA:2790:A:O4'	25:BA:2893:G:N2	2.43	0.51
25:BA:2856:C:C2'	25:BA:2857:G:H5'	2.39	0.51
25:BA:295:G:O2'	25:BA:296:C:H5'	2.10	0.51
25:BA:298:G:H1	25:BA:338:G:H4'	1.75	0.51
25:BA:311:A:OP1	25:BA:311:A:H8	1.94	0.51
25:BA:324:A:C2	25:BA:325:G:N9	2.77	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:383:U:O2	25:BA:385:C:N4	2.43	0.51
25:BA:371:A:N7	25:BA:424:G:O5'	2.43	0.51
25:BA:491:G:C2	25:BA:492:A:C4	2.98	0.51
25:BA:607:U:C2	25:BA:608:A:C8	2.98	0.51
25:BA:621:A:C8	25:BA:622:G:O4'	2.63	0.51
25:BA:71:A:O4'	25:BA:73:A:N7	2.43	0.51
25:BA:783:A:C2'	25:BA:784:A:C5'	2.82	0.51
26:BB:82:G:O2'	26:BB:83:G:O4'	2.26	0.51
27:BC:59:ARG:HD3	27:BC:164:ARG:CB	2.40	0.51
27:BC:60:GLY:O	27:BC:61:THR:CB	2.57	0.51
28:BD:131:LEU:HD23	28:BD:135:PHE:HB2	1.91	0.51
28:BD:9:TYR:HE2	28:BD:198:ASN:HD21	1.59	0.51
28:BD:226:MET:SD	28:BD:236:GLY:N	2.81	0.51
25:BA:1655:A:H4'	29:BE:113:PHE:O	2.10	0.51
29:BE:156:MET:O	29:BE:157:ALA:O	2.27	0.51
25:BA:2820:A:N6	29:BE:192:ASN:OD1	2.43	0.51
29:BE:46:ALA:CB	29:BE:85:ASN:OD1	2.57	0.51
30:BF:30:PRO:HA	30:BF:33:LEU:HG	1.91	0.51
31:BG:90:LEU:O	31:BG:90:LEU:CD1	2.58	0.51
32:BH:83:TYR:O	32:BH:135:GLY:N	2.43	0.51
32:BH:35:VAL:CG2	32:BH:72:ILE:HG23	2.23	0.51
32:BH:35:VAL:HG11	32:BH:75:ALA:HB2	1.88	0.51
33:BK:3:VAL:HG13	33:BK:31:LEU:CD1	2.41	0.51
35:BM:134:ARG:O	35:BM:135:PRO:O	2.28	0.51
36:BN:35:VAL:HG21	36:BN:104:ARG:HH11	1.74	0.51
36:BN:63:VAL:HG23	36:BN:81:ASP:HA	1.92	0.51
25:BA:1277:G:N2	39:BQ:23:ASN:HD21	2.00	0.51
39:BQ:4:LEU:O	39:BQ:5:LYS:C	2.49	0.51
39:BQ:5:LYS:CE	39:BQ:6:SER:H	2.22	0.51
26:BB:29:A:OP2	40:BR:34:HIS:HB2	2.11	0.51
40:BR:57:LYS:HZ1	40:BR:62:LYS:HD2	1.75	0.51
41:BS:103:ARG:C	41:BS:107:ASP:CG	2.67	0.51
42:BT:108:GLU:C	42:BT:110:VAL:N	2.60	0.51
42:BT:17:ILE:HG23	42:BT:20:LEU:CD1	2.27	0.51
35:BM:42:TRP:NE1	42:BT:64:ARG:HD3	2.24	0.51
42:BT:88:ILE:CD1	42:BT:88:ILE:N	2.68	0.51
44:BV:11:ARG:N	44:BV:11:ARG:HH21	2.03	0.51
44:BV:25:ARG:HA	44:BV:71:VAL:HG11	1.91	0.51
45:BW:89:ILE:CG2	45:BW:92:LEU:HD22	2.17	0.51
46:BX:13:VAL:CG1	46:BX:70:SER:HB3	2.39	0.51
46:BX:72:VAL:HG21	46:BX:81:LYS:CE	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:122:ARG:NH2	47:BY:169:GLU:O	2.39	0.51
47:BY:152:ALA:CB	47:BY:155:LEU:HD22	2.40	0.51
48:BZ:20:ARG:O	48:BZ:21:LEU:O	2.28	0.51
25:BA:2356:C:OP1	48:BZ:24:LYS:HD3	2.10	0.51
1:AA:1003:G:N2	1:AA:1004:A:HO2'	2.04	0.51
1:AA:1037:C:O2'	1:AA:1038:C:H5'	2.10	0.51
15:AO:17:LYS:O	15:AO:18:VAL:O	2.28	0.51
1:AA:1135:U:H2'	1:AA:1137:C:C6	2.45	0.51
1:AA:1165:C:H2'	1:AA:1166:G:O4'	2.11	0.51
1:AA:1068:G:N2	1:AA:1191:A:N3	2.47	0.51
1:AA:953:G:C6	1:AA:1229:A:N6	2.79	0.51
1:AA:1304:G:H2'	1:AA:1305:G:H1'	1.91	0.51
1:AA:1392:G:H2'	1:AA:1393:U:H6	1.73	0.51
1:AA:1419:G:O2'	1:AA:1420:C:O5'	2.27	0.51
1:AA:1441:G:C2'	1:AA:1460:A:H61	2.23	0.51
1:AA:1518:A:O5'	1:AA:1518:A:C8	2.59	0.51
1:AA:151:A:N6	1:AA:171:A:C6	2.78	0.51
1:AA:176:C:H2'	1:AA:177:C:H6	1.76	0.51
1:AA:191(D):U:O2'	1:AA:191(E):G:H5'	2.10	0.51
1:AA:19:C:C2'	1:AA:20:U:O5'	2.58	0.51
1:AA:261:U:H2'	1:AA:263:A:OP 2	2.09	0.51
1:AA:271:C:O2'	1:AA:272:C:H5'	2.09	0.51
1:AA:316:G:C2	1:AA:317:G:C8	2.97	0.51
1:AA:37:U:H2'	1:AA:38:G:H5'	1.91	0.51
1:AA:432:A:H3'	1:AA:432:A:H8	1.75	0.51
1:AA:552:U:H2'	1:AA:553:A:C8	2.43	0.51
1:AA:655:A:C6	1:AA:656:C:C4	2.98	0.51
1:AA:707:C:C2'	1:AA:708:C:C5'	2.88	0.51
1:AA:826:C:C2'	1:AA:827:U:O5'	2.58	0.51
1:AA:936:C:O2'	1:AA:937:A:H5'	2.10	0.51
1:AA:972:C:O2	1:AA:972:C:H2'	2.09	0.51
1:AA:975:A:H62	1:AA:1366:C:C2'	2.22	0.51
2:AC:14:A:N6	2:AC:21:A:C2	2.48	0.51
3:AD:18:G:H1'	3:AD:58:A:H1'	1.92	0.51
5:AE:103:THR:OG1	5:AE:180:LEU:HD11	2.10	0.51
5:AE:71:VAL:HG22	5:AE:93:VAL:CB	2.41	0.51
6:AF:47:LEU:HD11	6:AF:83:ARG:HH22	1.69	0.51
10:AJ:120:ILE:O	10:AJ:124:LEU:HB2	2.10	0.51
10:AJ:21:VAL:HG23	10:AJ:22:LEU:H	1.75	0.51
11:AK:31:PHE:CZ	11:AK:113:SER:HB2	2.40	0.51
11:AK:123:GLU:CD	11:AK:124:ALA:N	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:98:LYS:HZ2	11:AK:98:LYS:H	1.57	0.51
11:AK:95:VAL:CB	11:AK:99:GLU:OE1	2.43	0.51
12:AL:69:GLY:C	12:AL:73:GLN:OE1	2.48	0.51
13:AM:77:PRO:O	13:AM:78:ASN:C	2.48	0.51
14:AN:15:ALA:HB1	14:AN:78:GLN:NE2	2.25	0.51
14:AN:92:GLU:C	14:AN:94:ALA:N	2.61	0.51
14:AN:99:GLN:HB3	14:AN:105:VAL:CG1	2.26	0.51
16:AP:104:ARG:CG	16:AP:105:THR:HG23	2.21	0.51
16:AP:15:VAL:HB	16:AP:34:LEU:HD21	1.93	0.51
6:AF:8:ILE:CG2	17:AQ:49:HIS:O	2.58	0.51
20:AT:13:ASP:CG	20:AT:14:LYS:H	2.13	0.51
20:AT:5:VAL:HG13	20:AT:6:LEU:H	1.75	0.51
20:AT:83:ASP:OD2	20:AT:84:LEU:HD23	2.10	0.51
22:AV:79:THR:O	22:AV:79:THR:HG22	2.10	0.51
1:AA:193:C:O3'	23:AW:61:SER:HB3	2.10	0.51
49:B1:16:LEU:HD12	49:B1:19:LEU:CD1	2.40	0.51
51:B3:20:ASN:ND2	51:B3:32:TYR:OH	2.43	0.51
51:B3:17:GLY:CA	51:B3:33:VAL:HB	2.41	0.51
51:B3:56:VAL:HG12	51:B3:57:GLU:N	2.23	0.51
52:B4:9:LYS:O	52:B4:10:LYS:CG	2.59	0.51
53:B5:16:CYS:SG	53:B5:19:ARG:NE	2.82	0.51
53:B5:22:ALA:CB	53:B5:39:TYR:CD2	2.93	0.51
53:B5:48:VAL:HG13	53:B5:49:HIS:H	1.75	0.51
53:B5:50:ARG:NE	53:B5:52:VAL:HG21	2.26	0.51
25:BA:1033:U:H5''	56:B8:16:VAL:HG11	1.92	0.51
25:BA:1107:G:O5'	25:BA:1107:G:H8	1.93	0.51
25:BA:1108:U:C6	25:BA:1109:C:C4	2.98	0.51
25:BA:1119:C:C5'	25:BA:1120:G:OP2	2.54	0.51
25:BA:1142(A):A:OP1	25:BA:1143:A:H3'	2.10	0.51
25:BA:1327:C:C3'	25:BA:1328:G:C8	2.93	0.51
25:BA:144:C:O2'	25:BA:145:G:H5'	2.10	0.51
25:BA:1497:U:O4	25:BA:1577:C:O4'	2.28	0.51
25:BA:1527:G:C1'	25:BA:1528:A:N3	2.73	0.51
25:BA:1527:G:O2'	25:BA:1528:A:N3	2.36	0.51
25:BA:1537:C:O5'	25:BA:1537:C:H6	1.92	0.51
25:BA:1418:G:C1'	25:BA:1581:G:N2	2.64	0.51
25:BA:1641:A:H3'	25:BA:1642:G:C8	2.45	0.51
25:BA:1642:G:H8	25:BA:1642:G:O5'	1.93	0.51
25:BA:1708:C:C2'	25:BA:1709:U:H5'	2.41	0.51
25:BA:1795:C:C2'	25:BA:1796:U:H5'	2.39	0.51
25:BA:181:A:H5'	25:BA:181:A:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1906:G:C2	25:BA:1907:G:C8	2.98	0.51
25:BA:18:C:N4	25:BA:19:C:N4	2.58	0.51
25:BA:2033:A:P	25:BA:2033:A:H8	2.33	0.51
25:BA:2080:G:C2'	25:BA:2081:C:O5'	2.58	0.51
25:BA:2161:C:C2	25:BA:2162:G:C8	2.98	0.51
25:BA:2195:C:O2	25:BA:2196:C:H1'	2.10	0.51
25:BA:2219:G:H2'	25:BA:2224:G:C5'	2.37	0.51
25:BA:240:G:N2	25:BA:256:A:N7	2.59	0.51
25:BA:2415:G:H5''	37:BO:61:ARG:CG	2.40	0.51
25:BA:2466:C:C2	25:BA:2485:G:C2	2.98	0.51
25:BA:2602:A:C8	48:BZ:2:ALA:CB	2.93	0.51
25:BA:2642:G:O2'	25:BA:2643:G:H5'	2.10	0.51
25:BA:270(L):U:O2'	25:BA:270(M):U:O5'	2.23	0.51
25:BA:2688:U:H1'	25:BA:2721:A:H61	1.75	0.51
25:BA:2848:G:H2'	41:BS:99:LEU:CD2	2.16	0.51
25:BA:2849:U:H2'	25:BA:2850:A:OP2	2.10	0.51
25:BA:328:U:O2	25:BA:328:U:C2'	2.58	0.51
25:BA:342:G:H2'	25:BA:343:C:O4'	2.11	0.51
25:BA:479:A:H5'	46:BX:63:LYS:CD	2.39	0.51
25:BA:485:C:O5'	25:BA:485:C:H6	1.93	0.51
25:BA:494:G:H21	44:BV:57:ASN:HD21	1.57	0.51
25:BA:510:C:C2'	25:BA:511:U:H5'	2.40	0.51
25:BA:536:A:C2	25:BA:558:G:C2	2.97	0.51
25:BA:588:U:H6	25:BA:588:U:OP2	1.93	0.51
25:BA:641:C:H41	25:BA:642:G:H21	1.58	0.51
25:BA:644:A:O2'	25:BA:646:A:C6	2.60	0.51
25:BA:711:G:H2'	25:BA:712:G:O5'	2.09	0.51
25:BA:763:G:C6	25:BA:765:G:C4	2.98	0.51
25:BA:930:U:O2	25:BA:932:G:C2	2.63	0.51
25:BA:951:C:H2'	25:BA:952:G:C8	2.45	0.51
25:BA:954:G:C5'	38:BP:17:LEU:HD23	2.40	0.51
26:BB:103:U:H5''	26:BB:103:U:C6	2.35	0.51
27:BC:200:LYS:HE3	27:BC:200:LYS:O	2.09	0.51
27:BC:7:TYR:CE1	27:BC:10:LEU:CG	2.93	0.51
25:BA:1819:A:C5'	28:BD:178:PRO:CB	2.79	0.51
28:BD:209:ALA:HB1	28:BD:213:ARG:NE	2.25	0.51
28:BD:228:PRO:C	28:BD:230:ASP:N	2.58	0.51
29:BE:160:TYR:C	29:BE:163:GLU:OE1	2.49	0.51
29:BE:23:VAL:H	29:BE:185:LYS:H	1.58	0.51
29:BE:188:VAL:O	29:BE:190:GLY:O	2.28	0.51
29:BE:60:ASN:OD1	29:BE:61:ARG:HD3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:80:GLU:CD	29:BE:80:GLU:N	2.64	0.51
30:BF:41:LEU:CG	30:BF:42:ALA:N	2.73	0.51
31:BG:29:TRP:C	31:BG:31:VAL:N	2.63	0.51
31:BG:75:LYS:HB3	31:BG:84:LYS:CB	2.40	0.51
32:BH:159:GLU:HB2	32:BH:171:LEU:HD21	1.92	0.51
33:BK:31:LEU:HA	33:BK:33:ARG:HG2	1.92	0.51
25:BA:1192:G:OP1	37:BO:18:ARG:CZ	2.59	0.51
37:BO:57:THR:O	55:B7:13:ARG:NH1	2.43	0.51
38:BP:12:GLN:CA	38:BP:12:GLN:NE2	2.68	0.51
38:BP:22:LYS:CG	38:BP:23:GLY:N	2.73	0.51
38:BP:42:ILE:CD1	38:BP:42:ILE:C	2.78	0.51
25:BA:1294:U:H1'	39:BQ:23:ASN:HD22	1.75	0.51
40:BR:79:ALA:O	40:BR:81:GLY:N	2.43	0.51
41:BS:38:ASN:C	41:BS:39:ARG:HG2	2.30	0.51
41:BS:68:TYR:CE2	41:BS:70:VAL:HG22	2.44	0.51
35:BM:4:TYR:CD2	42:BT:100:VAL:CG1	2.93	0.51
25:BA:534:U:OP1	42:BT:24:TYR:CE2	2.62	0.51
42:BT:25:TRP:C	42:BT:25:TRP:CE3	2.84	0.51
42:BT:91:ASP:O	42:BT:95:LEU:CD2	2.58	0.51
43:BU:21:ARG:O	43:BU:93:GLU:OE1	2.28	0.51
44:BV:76:VAL:HG22	44:BV:77:ASP:H	1.74	0.51
47:BY:150:LEU:O	47:BY:171:ILE:N	2.43	0.51
48:BZ:56:ASP:O	48:BZ:57:PHE:HB2	2.10	0.51
48:BZ:65:GLY:CA	48:BZ:82:ARG:O	2.58	0.51
25:BA:1104:C:H2'	25:BA:1105:U:O4'	2.10	0.51
22:AV:30:LEU:HA	22:AV:48:THR:O	2.09	0.51
1:AA:90:C:C4	1:AA:91:C:C5	2.98	0.51
3:AD:66:C:C2	3:AD:67:C:C5	2.98	0.51
11:AK:54:ASP:O	11:AK:56:LYS:HD2	2.09	0.51
1:AA:1106:G:C6	1:AA:1107:C:C4	2.97	0.51
1:AA:1236:A:C4'	1:AA:1304:G:H5''	2.40	0.51
1:AA:1251:A:H2'	1:AA:1252:A:N9	2.24	0.51
1:AA:1433:A:N6	1:AA:1467:G:H21	2.08	0.51
1:AA:29:G:H5'	1:AA:296:U:OP1	2.10	0.51
1:AA:7:G:H1'	1:AA:298:A:N7	2.25	0.51
1:AA:321:A:C2	1:AA:332:G:N2	2.78	0.51
1:AA:366:C:H4'	1:AA:367:U:OP1	2.10	0.51
1:AA:47:C:N4	1:AA:362:G:H22	2.08	0.51
1:AA:575:G:C6	1:AA:821:G:C8	2.98	0.51
1:AA:593:G:H2'	1:AA:594:G:C5'	2.40	0.51
1:AA:61:G:C6	1:AA:62:U:N3	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:868:C:O2'	1:AA:872:A:H1'	2.11	0.51
1:AA:918:A:C2'	1:AA:919:A:O5'	2.58	0.51
2:AC:7:G:C5	2:AC:49:G:N7	2.78	0.51
2:AC:75:C:C5	2:AC:76:A:O2'	2.61	0.51
3:AD:48:C:N4	3:AD:59:U:O2	2.43	0.51
5:AE:115:LEU:HD23	5:AE:149:LEU:HB3	1.91	0.51
5:AE:19:HIS:O	5:AE:20:GLU:C	2.49	0.51
5:AE:74:LYS:HD2	5:AE:76:GLN:H	1.75	0.51
5:AE:71:VAL:CG2	5:AE:93:VAL:HB	2.40	0.51
6:AF:73:PRO:HD3	6:AF:105:GLU:OE2	2.10	0.51
7:AG:199:ASN:CG	7:AG:200:GLU:N	2.64	0.51
10:AJ:41:ARG:CZ	10:AJ:41:ARG:HB3	2.40	0.51
11:AK:100:ILE:N	11:AK:100:ILE:HD12	2.18	0.51
11:AK:40:ALA:CB	11:AK:45:ILE:HG23	2.39	0.51
11:AK:46:LYS:HG3	11:AK:64:LYS:HG3	1.92	0.51
11:AK:71:GLY:H	11:AK:72:PRO:HD2	1.75	0.51
14:AN:79:SER:CA	14:AN:104:GLN:NE2	2.72	0.51
15:AO:97:ARG:HG2	15:AO:97:ARG:O	2.10	0.51
16:AP:40:ASN:C	16:AP:42:ALA:N	2.64	0.51
19:AS:28:ARG:HH11	19:AS:28:ARG:HG3	1.76	0.51
1:AA:761:G:C5'	20:AT:103:GLY:H	2.19	0.51
23:AW:14:LYS:HA	23:AW:17:ARG:HD2	1.91	0.51
23:AW:76:ALA:O	23:AW:77:ALA:C	2.47	0.51
23:AW:49:ALA:CB	23:AW:99:LEU:HG	2.38	0.51
49:B1:20:VAL:CG2	49:B1:56:LEU:HD11	2.36	0.51
25:BA:2815:C:O2'	52:B4:42:PRO:CB	2.57	0.51
53:B5:12:GLU:OE1	53:B5:52:VAL:O	2.29	0.51
54:B6:41:ARG:CZ	54:B6:41:ARG:CB	2.88	0.51
54:B6:8:ASN:O	54:B6:9:ARG:C	2.48	0.51
55:B7:29:LYS:O	55:B7:32:LEU:CD1	2.57	0.51
55:B7:34:TRP:O	55:B7:35:GLN:C	2.49	0.51
25:BA:1022:G:N7	35:BM:65:LYS:HE3	2.25	0.51
25:BA:1264:G:H5''	25:BA:1265:A:H3'	1.93	0.51
25:BA:1313:U:P	25:BA:1313:U:C6	3.03	0.51
25:BA:1326:U:C2'	25:BA:1327:C:C5'	2.79	0.51
25:BA:1352:U:H1'	25:BA:1570:A:H2	1.73	0.51
25:BA:1353:A:C6	25:BA:1354:A:N1	2.78	0.51
25:BA:1448:G:O2'	25:BA:1449:A:H5'	2.11	0.51
25:BA:1517:G:C2'	25:BA:1518:C:O4'	2.57	0.51
25:BA:1524:G:C4	25:BA:1525:G:C8	2.98	0.51
25:BA:1770:G:H2'	25:BA:1771:C:H6	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1789:A:H1'	28:BD:222:ARG:CZ	2.41	0.51
25:BA:1799:G:H3'	28:BD:183:ARG:HH22	1.68	0.51
25:BA:1894:C:C2	25:BA:1895:C:C5	2.99	0.51
25:BA:1980:G:O2'	25:BA:1981:A:P	2.67	0.51
25:BA:1997:G:C6	25:BA:1998:G:C5	2.99	0.51
25:BA:204:A:O2'	25:BA:205:G:OP2	2.27	0.51
25:BA:2057:A:C5	25:BA:2058:A:N7	2.77	0.51
25:BA:2060:A:O2'	25:BA:2061:G:P	2.68	0.51
25:BA:2193:G:H2'	25:BA:2194:G:C8	2.36	0.51
25:BA:2305:A:N7	25:BA:2306:C:C5	2.78	0.51
25:BA:2401:U:H2'	25:BA:2402:C:O4'	2.10	0.51
25:BA:2054:A:H62	25:BA:2577:A:H61	1.58	0.51
25:BA:2621:A:C2'	25:BA:2622:C:O5'	2.58	0.51
25:BA:2754:U:H5	25:BA:2754:U:OP2	1.92	0.51
25:BA:2772:C:C2	25:BA:2773:C:H5	2.28	0.51
25:BA:283:A:OP1	25:BA:284:U:H5	1.93	0.51
25:BA:2876:G:C5'	41:BS:1:MET:H2	2.20	0.51
25:BA:290:G:OP1	25:BA:290:G:C5	2.63	0.51
25:BA:311:A:C3'	25:BA:312:G:H8	2.23	0.51
25:BA:464:U:H6	25:BA:464:U:P	2.33	0.51
25:BA:487:C:C3'	25:BA:487:C:C6	2.92	0.51
25:BA:28:A:C8	25:BA:513:A:C6	2.97	0.51
25:BA:572:A:N6	25:BA:573:G:N1	2.58	0.51
25:BA:575:A:C2	25:BA:576:U:H1'	2.45	0.51
25:BA:578:A:C2	25:BA:2018:G:C1'	2.93	0.51
25:BA:666:G:O2'	25:BA:667:U:C5'	2.57	0.51
25:BA:695:G:OP1	25:BA:1380:G:H4'	2.11	0.51
25:BA:738:G:C8	25:BA:739:G:C2	2.98	0.51
25:BA:795:C:C2'	25:BA:796:C:O5'	2.58	0.51
25:BA:974:G:C8	25:BA:974(A):C:O4'	2.63	0.51
27:BC:209:LEU:HD21	27:BC:212:VAL:CG2	2.39	0.51
27:BC:62:VAL:CG2	27:BC:195:ALA:HB2	2.39	0.51
28:BD:116:GLN:O	28:BD:117:VAL:HG23	2.10	0.51
28:BD:148:GLU:HB2	28:BD:154:LYS:HZ1	1.71	0.51
28:BD:147:LEU:O	28:BD:154:LYS:CE	2.58	0.51
29:BE:8:LYS:CB	29:BE:24:THR:HG22	2.41	0.51
29:BE:33:VAL:HG23	29:BE:34:VAL:HG23	1.93	0.51
29:BE:60:ASN:OD1	29:BE:61:ARG:HD2	2.10	0.51
30:BF:125:LEU:CD1	30:BF:128:ALA:HB2	2.40	0.51
30:BF:40:GLN:H	30:BF:184:TYR:HH	1.55	0.51
31:BG:107:LEU:CD1	31:BG:111:LEU:HD13	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:171:ALA:HA	31:BG:174:GLU:CD	2.30	0.51
32:BH:11:VAL:CG1	32:BH:17:VAL:HG11	2.32	0.51
33:BK:40:THR:HG22	33:BK:42:SER:HB3	1.91	0.51
33:BK:5:LEU:HD12	33:BK:8:PRO:O	2.10	0.51
35:BM:67:LEU:O	35:BM:68:GLU:HG3	2.10	0.51
37:BO:73:GLY:HA2	37:BO:111:ARG:NH2	2.25	0.51
37:BO:122:PRO:CD	37:BO:137:LYS:HB2	2.40	0.51
37:BO:122:PRO:CB	37:BO:137:LYS:HB2	2.40	0.51
38:BP:55:VAL:HG22	38:BP:63:LYS:NZ	2.22	0.51
38:BP:75:THR:HG23	38:BP:91:GLU:OE2	2.11	0.51
39:BQ:33:ARG:HG3	39:BQ:113:LEU:CD2	2.33	0.51
40:BR:49:VAL:CG1	40:BR:76:LYS:NZ	2.72	0.51
40:BR:30:ARG:CG	40:BR:91:PRO:HG3	2.31	0.51
42:BT:25:TRP:CB	42:BT:28:ARG:NH1	2.73	0.51
42:BT:93:LYS:HA	42:BT:93:LYS:HZ2	1.73	0.51
43:BU:62:LEU:HD12	43:BU:96:ILE:C	2.31	0.51
45:BW:7:VAL:O	45:BW:8:ILE:HG23	2.11	0.51
46:BX:97:ARG:HH21	46:BX:101:LYS:HD3	1.72	0.51
47:BY:152:ALA:HB1	47:BY:155:LEU:HD22	1.92	0.51
33:BK:81:VAL:CG2	33:BK:144:VAL:HG13	2.27	0.51
1:AA:82:U:O2	1:AA:86:U:H5	1.94	0.51
3:AD:30:G:C2	3:AD:31:A:C5	2.99	0.51
20:AT:74:LEU:HD13	20:AT:74:LEU:O	2.10	0.51
1:AA:1143:G:N2	1:AA:1144:G:C4	2.78	0.51
1:AA:1214:C:O2'	1:AA:1215:G:OP1	2.26	0.51
1:AA:1234:C:N4	1:AA:1235:U:C4	2.79	0.51
1:AA:134:A:H1'	1:AA:325:A:C6	2.44	0.51
1:AA:135:C:C6	1:AA:135:C:C3'	2.94	0.51
1:AA:1429:C:H2'	1:AA:1430:C:H5	1.74	0.51
1:AA:1440:C:H2'	1:AA:1441:G:C8	2.39	0.51
1:AA:1440:C:H2'	1:AA:1441:G:O5'	2.11	0.51
1:AA:1488:G:O2'	1:AA:1489:G:H5'	2.10	0.51
1:AA:1493:A:O4'	1:AA:1493:A:P	2.68	0.51
1:AA:224:C:C2	1:AA:225:C:C5	2.98	0.51
1:AA:257:G:O2'	1:AA:258:G:H5'	2.10	0.51
1:AA:257:G:H2'	1:AA:258:G:C5'	2.40	0.51
1:AA:305:G:H4'	1:AA:306:G:OP2	2.10	0.51
1:AA:115:G:O6	1:AA:313:A:N6	2.43	0.51
1:AA:316:G:C2	1:AA:317:G:N7	2.78	0.51
1:AA:350:G:N2	1:AA:351:G:C2	2.78	0.51
1:AA:465:A:N6	1:AA:467:G:N3	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:475:G:C4	1:AA:476:G:N7	2.78	0.51
2:AC:58:A:C5	2:AC:61:C:C6	2.98	0.51
3:AD:22:G:C8	3:AD:46:G:N2	2.78	0.51
3:AD:40:C:C3'	3:AD:41:G:C5'	2.88	0.51
5:AE:27:LYS:O	5:AE:194:PRO:HG2	2.10	0.51
6:AF:181:ASN:HD22	6:AF:206:GLU:CG	2.23	0.51
7:AG:134:ASP:C	7:AG:136:PRO:HD3	2.30	0.51
7:AG:107:ARG:HD3	7:AG:174:LEU:HD11	1.91	0.51
8:AH:142:LEU:C	8:AH:143:ARG:HD3	2.31	0.51
8:AH:40:ARG:NH1	8:AH:68:GLU:OE1	2.43	0.51
9:AI:79:LEU:HD12	9:AI:88:VAL:HG13	1.90	0.51
10:AJ:108:ALA:O	10:AJ:109:ASN:C	2.49	0.51
10:AJ:22:LEU:CD2	10:AJ:63:LYS:NZ	2.67	0.51
10:AJ:78:ARG:CG	10:AJ:80:VAL:HG23	2.37	0.51
13:AM:52:GLY:H	13:AM:59:SER:HB3	1.74	0.51
13:AM:79:ARG:O	13:AM:79:ARG:NH1	2.43	0.51
1:AA:529:G:C5	15:AO:49:ASN:ND2	2.78	0.51
15:AO:69:TYR:O	15:AO:71:PRO:HD3	2.10	0.51
15:AO:86:ARG:O	15:AO:87:GLY:O	2.28	0.51
1:AA:585:G:H4'	15:AO:8:ASN:OD1	2.11	0.51
16:AP:48:LEU:HD11	16:AP:56:LEU:CD1	2.35	0.51
16:AP:67:GLU:O	16:AP:70:LEU:HB3	2.09	0.51
16:AP:81:LEU:HB2	16:AP:86:CYS:SG	2.50	0.51
19:AS:36:ILE:CG2	19:AS:55:ARG:HB3	2.40	0.51
19:AS:5:ARG:NH2	19:AS:22:THR:OG1	2.42	0.51
1:AA:255:G:OP1	20:AT:66:SER:HB2	2.10	0.51
20:AT:75:ARG:NH1	20:AT:76:LEU:O	2.43	0.51
21:AU:46:GLU:OE2	21:AU:46:GLU:N	2.43	0.51
21:AU:68:LYS:O	21:AU:72:ARG:HG3	2.11	0.51
22:AV:39:THR:O	22:AV:40:ILE:C	2.49	0.51
23:AW:66:ALA:CB	23:AW:72:LEU:HB2	2.41	0.51
49:B1:56:LEU:H	49:B1:56:LEU:HD13	1.75	0.51
52:B4:13:LYS:O	52:B4:16:ARG:HB3	2.10	0.51
52:B4:21:SER:C	52:B4:23:HIS:N	2.63	0.51
53:B5:10:LEU:HD21	53:B5:28:ARG:HH21	1.76	0.51
53:B5:35:GLU:HB2	53:B5:52:VAL:HA	1.91	0.51
53:B5:35:GLU:CG	53:B5:52:VAL:HG22	2.32	0.51
25:BA:179:G:C5'	54:B6:32:LYS:HZ3	2.16	0.51
55:B7:3:LYS:NZ	55:B7:59:LYS:HZ1	2.07	0.51
25:BA:1271:G:O5'	25:BA:1272:A:OP1	2.28	0.51
25:BA:1412:A:H2'	25:BA:1413:G:C8	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1477:A:C2'	25:BA:1478:G:O4'	2.57	0.51
25:BA:1617:C:C4'	25:BA:1617:C:OP2	2.58	0.51
25:BA:1818:U:H3	28:BD:155:LEU:H	1.58	0.51
25:BA:1799:G:N1	25:BA:1819:A:N7	2.59	0.51
25:BA:2067:G:H5''	25:BA:2068:U:OP2	2.10	0.51
25:BA:2121:G:H3'	25:BA:2122:U:C6	2.45	0.51
25:BA:2167:U:O5'	25:BA:2167:U:C6	2.63	0.51
25:BA:2195:C:H2'	25:BA:2196:C:C5'	2.41	0.51
25:BA:226:G:N1	25:BA:227:A:H2	2.08	0.51
25:BA:2305:A:H61	31:BG:43:LEU:CD2	2.22	0.51
3:AD:76:A:C4	25:BA:2432:A:C1'	2.93	0.51
25:BA:2032:G:C6	25:BA:2454:G:C1'	2.93	0.51
25:BA:2483:C:C4	25:BA:2484:G:N7	2.79	0.51
25:BA:2521:C:H2'	25:BA:2522:U:O5'	2.10	0.51
25:BA:2532:G:C6	25:BA:2533:A:C6	2.98	0.51
25:BA:2615:U:C2	25:BA:2616:C:C5	2.98	0.51
25:BA:2688:U:C3'	25:BA:2688:U:O2	2.58	0.51
25:BA:2701:C:C3'	25:BA:2702:U:C5'	2.84	0.51
25:BA:266:G:H5'	25:BA:271(A):C:N4	2.26	0.51
25:BA:273(E):U:C2	25:BA:363(B):G:C2	2.99	0.51
25:BA:2753:A:N3	25:BA:2753:A:H2'	2.26	0.51
25:BA:2785:C:C6	25:BA:2786:U:H5	2.28	0.51
25:BA:2831:G:O4'	25:BA:2883:A:C2	2.64	0.51
25:BA:2876:G:N1	25:BA:2877:G:C5	2.79	0.51
25:BA:450:G:C8	25:BA:450:G:H3'	2.45	0.51
25:BA:450:G:H8	25:BA:450:G:H3'	1.75	0.51
25:BA:509:C:C6	25:BA:509:C:H3'	2.46	0.51
25:BA:544:C:C2'	25:BA:545:G:O5'	2.59	0.51
25:BA:627:A:H2'	25:BA:628:G:C1'	2.40	0.51
25:BA:669:G:C5'	25:BA:670:A:OP2	2.59	0.51
25:BA:861:A:H62	25:BA:916:G:N2	2.08	0.51
25:BA:861:A:C5	25:BA:917:A:C6	2.99	0.51
25:BA:944:G:H5''	25:BA:945:A:C5'	2.41	0.51
26:BB:17:C:H3'	26:BB:18:G:H8	1.75	0.51
26:BB:56:G:H4'	26:BB:57:A:C5'	2.36	0.51
27:BC:49:ILE:HD11	27:BC:165:ASN:HD22	1.74	0.51
27:BC:64:LEU:H	27:BC:161:ILE:CD1	2.23	0.51
28:BD:234:GLY:N	28:BD:241:PRO:CG	2.74	0.51
28:BD:275:LYS:O	28:BD:276:LYS:C	2.49	0.51
28:BD:46:GLN:OE1	28:BD:51:VAL:N	2.43	0.51
28:BD:7:LYS:HD3	28:BD:9:TYR:OH	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:178:GLU:H	29:BE:178:GLU:CD	2.13	0.51
29:BE:197:ILE:CG2	29:BE:198:VAL:N	2.73	0.51
29:BE:36:ARG:HD2	29:BE:79:ARG:CZ	2.40	0.51
30:BF:57:VAL:C	30:BF:60:SER:HG	2.10	0.51
31:BG:140:ILE:HG22	31:BG:141:PHE:CD1	2.45	0.51
31:BG:16:ARG:NH2	31:BG:16:ARG:CG	2.73	0.51
31:BG:26:GLN:NE2	31:BG:31:VAL:HG21	2.25	0.51
31:BG:36:LYS:HZ1	31:BG:38:VAL:H	1.57	0.51
31:BG:75:LYS:HD3	31:BG:85:GLY:H	1.73	0.51
32:BH:7:LEU:HG	32:BH:51:ARG:CD	2.39	0.51
35:BM:127:ASP:C	35:BM:129:PRO:N	2.58	0.51
35:BM:123:TYR:HB2	35:BM:129:PRO:CG	2.41	0.51
36:BN:107:ARG:C	36:BN:109:LYS:HG3	2.29	0.51
36:BN:66:LYS:C	36:BN:67:LYS:HE2	2.31	0.51
37:BO:96:THR:OG1	37:BO:112:LEU:HD11	2.10	0.51
38:BP:131:ILE:O	38:BP:132:VAL:CG1	2.52	0.51
40:BR:52:SER:HB3	40:BR:69:VAL:HG13	1.91	0.51
42:BT:73:GLY:O	42:BT:74:LEU:HG	2.10	0.51
42:BT:94:ASN:HD22	43:BU:6:LYS:NZ	2.08	0.51
44:BV:28:SER:H	44:BV:31:GLU:CD	2.13	0.51
45:BW:5:TYR:C	45:BW:7:VAL:H	2.09	0.51
46:BX:36:ALA:HA	46:BX:64:GLU:CB	2.40	0.51
47:BY:107:THR:O	47:BY:108:PRO:C	2.47	0.51
47:BY:10:ARG:CD	47:BY:36:LYS:HD2	2.19	0.51
48:BZ:44:ARG:NE	48:BZ:77:ARG:HD2	2.25	0.51
25:BA:857:C:H5'	48:BZ:44:ARG:NH2	2.26	0.51
48:BZ:76:GLY:O	48:BZ:78:TYR:CD1	2.64	0.51
48:BZ:65:GLY:HA3	48:BZ:81:VAL:HG12	1.92	0.51
25:BA:1071:G:C3'	25:BA:1072:C:C5'	2.88	0.51
25:BA:1081:U:C4'	34:BL:122:ALA:HB1	2.39	0.51
26:BB:87:G:C2	26:BB:90:C:N3	2.78	0.51
25:BA:1573:G:H8	25:BA:1573:G:H3'	1.75	0.51
1:AA:1085:U:O2	1:AA:1094:G:C6	2.63	0.51
1:AA:1105:A:C4	1:AA:1106:G:C8	2.99	0.51
1:AA:130:A:C2'	1:AA:131:C:OP2	2.58	0.51
1:AA:1237:C:O2	1:AA:1335:C:H5'	2.09	0.51
1:AA:928:G:N2	1:AA:1390:U:H1'	2.26	0.51
1:AA:1459:C:O5'	23:AW:27:LYS:NZ	2.44	0.51
1:AA:1502:A:N1	1:AA:1504:G:N3	2.58	0.51
1:AA:21:G:N2	1:AA:915:A:H61	2.08	0.51
1:AA:272:C:O2'	1:AA:273:A:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:425:G:N2	1:AA:426:G:N9	2.59	0.51
1:AA:591:U:H2'	1:AA:592:G:C8	2.45	0.51
1:AA:690:G:C2	1:AA:691:G:C1'	2.93	0.51
1:AA:775:G:C4	1:AA:776:G:C8	2.99	0.51
1:AA:921:U:N3	1:AA:922:G:N7	2.59	0.51
1:AA:953:G:H5'	1:AA:965:A:H61	1.75	0.51
1:AA:967:C:OP1	1:AA:969:A:N7	2.44	0.51
3:AD:18:G:H21	3:AD:57:G:H2'	1.74	0.51
3:AD:72:C:C6	3:AD:72:C:OP2	2.63	0.51
5:AE:19:HIS:O	5:AE:20:GLU:O	2.28	0.51
5:AE:219:VAL:O	5:AE:223:ILE:CG1	2.59	0.51
5:AE:24:TRP:CH2	5:AE:26:PRO:HA	2.46	0.51
5:AE:57:PHE:CD2	5:AE:57:PHE:C	2.84	0.51
6:AF:94:LEU:O	6:AF:95:THR:CG2	2.58	0.51
7:AG:140:VAL:HG11	7:AG:185:PHE:HD1	1.75	0.51
7:AG:83:SER:CB	7:AG:89:THR:HG21	2.41	0.51
8:AH:78:HIS:CD2	8:AH:142:LEU:HD23	2.46	0.51
8:AH:45:PHE:CD1	8:AH:47:LYS:HD2	2.46	0.51
8:AH:95:ALA:HB3	8:AH:96:PRO:HD3	1.91	0.51
1:AA:6:G:H22	8:AH:98:THR:CG2	2.23	0.51
11:AK:32:LYS:HG2	11:AK:33:GLU:N	2.25	0.51
11:AK:29:SER:CA	11:AK:32:LYS:NZ	2.74	0.51
12:AL:49:PRO:O	12:AL:85:LEU:HD22	2.10	0.51
13:AM:13:HIS:O	13:AM:14:LYS:HD3	2.10	0.51
14:AN:122:LYS:O	14:AN:123:LYS:C	2.49	0.51
14:AN:67:ASP:O	14:AN:69:ALA:N	2.44	0.51
15:AO:25:PRO:HG2	15:AO:25:PRO:O	2.10	0.51
18:AR:29:VAL:HG21	18:AR:81:LEU:CD1	2.27	0.51
18:AR:63:ARG:HH22	18:AR:87:ILE:CD1	2.24	0.51
19:AS:36:ILE:O	19:AS:36:ILE:HG13	2.11	0.51
20:AT:29:HIS:ND1	20:AT:32:TYR:N	2.55	0.51
20:AT:3:LYS:CE	20:AT:60:ILE:HD11	2.35	0.51
9:AI:100:ASN:OD1	21:AU:27:GLY:HA2	2.10	0.51
1:AA:719:C:O2	21:AU:50:ILE:HG13	2.10	0.51
50:B2:38:GLU:O	50:B2:40:THR:N	2.42	0.51
52:B4:37:LYS:HD2	52:B4:37:LYS:H	1.72	0.51
53:B5:19:ARG:O	53:B5:20:ASN:CB	2.58	0.51
53:B5:25:LYS:HZ3	55:B7:35:GLN:CB	2.20	0.51
25:BA:666:G:O4'	55:B7:3:LYS:NZ	2.43	0.51
25:BA:247:G:N2	55:B7:8:LYS:HE3	2.24	0.51
56:B8:6:SER:O	56:B8:7:VAL:O	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1021:A:C8	25:BA:1021:A:H3'	2.46	0.51
25:BA:1164:G:C5	25:BA:1165:U:C5	2.98	0.51
25:BA:1188:U:C2'	25:BA:1188:U:O2	2.39	0.51
25:BA:1188:U:O2'	25:BA:1189:A:C5'	2.42	0.51
25:BA:1294:U:O2	25:BA:1294:U:H2'	2.11	0.51
25:BA:1342:A:C1'	25:BA:1345:C:N4	2.73	0.51
25:BA:1451:C:O4'	25:BA:1451:C:OP2	2.28	0.51
25:BA:1488:G:C3'	25:BA:1489:U:C5'	2.88	0.51
25:BA:1608:A:C4	25:BA:1611:C:C5	2.99	0.51
25:BA:1619:G:N2	25:BA:1620:G:C1'	2.73	0.51
25:BA:1300:U:C2'	25:BA:1626:G:N2	2.73	0.51
25:BA:1632:A:O5'	25:BA:1632:A:C8	2.55	0.51
25:BA:1672:C:H3'	25:BA:1673:U:C5'	2.41	0.51
25:BA:1731:G:H21	25:BA:1733:G:N2	2.09	0.51
25:BA:1784:A:C1'	25:BA:1785:A:C8	2.93	0.51
25:BA:1364:G:H5''	25:BA:1809:A:C8	2.46	0.51
25:BA:1808:U:N3	25:BA:1810:A:C2	2.67	0.51
25:BA:1830:C:H2'	25:BA:1831:G:O5'	2.11	0.51
25:BA:1931:U:C5	25:BA:1932:A:C8	2.99	0.51
25:BA:1964:G:O2'	25:BA:1965:C:P	2.69	0.51
25:BA:2020:A:N1	25:BA:2035:G:C5	2.79	0.51
25:BA:2135:A:N7	25:BA:2160:G:O2'	2.36	0.51
25:BA:2206:C:C2	25:BA:2207:C:C5	2.98	0.51
25:BA:2230:G:H2'	25:BA:2231:C:C6	2.46	0.51
25:BA:858:U:O2	25:BA:2268:A:H8	1.93	0.51
25:BA:2323:G:N2	25:BA:2331:G:H22	2.09	0.51
25:BA:2345:G:H4'	25:BA:2347:C:H5''	1.91	0.51
25:BA:2350:C:O2'	25:BA:2351:G:O5'	2.27	0.51
25:BA:22:C:H2'	25:BA:23:G:O5'	2.09	0.51
25:BA:2510:C:O2'	25:BA:2511:U:H5'	2.09	0.51
25:BA:2536:G:H2'	25:BA:2537:U:C5'	2.40	0.51
25:BA:2547:U:C3'	25:BA:2548:G:C5'	2.88	0.51
25:BA:2576:G:C5'	25:BA:2577:A:OP1	2.58	0.51
25:BA:2713:A:C3'	25:BA:2714:G:C5'	2.88	0.51
25:BA:283:A:C5'	25:BA:283:A:H8	2.24	0.51
25:BA:283:A:H8	25:BA:283:A:H5'	1.74	0.51
25:BA:294:A:H2'	25:BA:295:G:H5'	1.92	0.51
25:BA:303:U:C2	25:BA:304:G:C8	2.99	0.51
25:BA:234:C:N4	25:BA:430:G:N2	2.57	0.51
25:BA:35:G:N2	25:BA:450:G:C2	2.78	0.51
25:BA:55:G:H2'	25:BA:56:A:C8	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:584:C:C2'	25:BA:585:G:H5'	2.40	0.51
25:BA:594:U:C2	25:BA:595:C:C4	2.98	0.51
25:BA:642:G:C5	25:BA:643:A:C2	2.98	0.51
25:BA:64:A:C2	25:BA:65:C:N1	2.79	0.51
25:BA:713:G:N2	25:BA:714:U:C6	2.79	0.51
25:BA:752:A:HO2'	25:BA:753:C:H6	1.53	0.51
25:BA:82:G:N1	25:BA:103:A:OP2	2.43	0.51
25:BA:890:A:O4'	25:BA:890:A:OP2	2.28	0.51
25:BA:917:A:C2'	25:BA:918:A:C5'	2.86	0.51
25:BA:960:A:H2	25:BA:2496:C:C1'	2.21	0.51
26:BB:104:A:C5	26:BB:105:G:H1'	2.45	0.51
26:BB:13:A:H62	26:BB:70:C:H5'	1.74	0.51
27:BC:61:THR:HA	27:BC:162:GLU:HA	1.93	0.51
27:BC:42:GLU:OE1	27:BC:174:PRO:HB3	2.10	0.51
27:BC:181:PRO:HB2	27:BC:184:LYS:CG	2.41	0.51
29:BE:119:ARG:HH11	29:BE:120:TRP:CA	2.23	0.51
29:BE:171:GLU:O	29:BE:184:VAL:CA	2.59	0.51
29:BE:2:LYS:HZ3	29:BE:80:GLU:CG	2.24	0.51
29:BE:45:THR:HG21	29:BE:81:ILE:N	2.26	0.51
29:BE:94:GLU:O	29:BE:95:ILE:C	2.49	0.51
30:BF:80:ALA:CB	30:BF:82:ILE:CD1	2.88	0.51
31:BG:8:LYS:HZ1	31:BG:176:LEU:CD2	2.23	0.51
31:BG:98:ARG:O	31:BG:101:ILE:HG22	2.11	0.51
32:BH:23:ARG:NH2	32:BH:34:GLU:HB3	2.26	0.51
32:BH:94:TYR:O	32:BH:95:ARG:HD2	2.10	0.51
33:BK:29:TYR:CB	33:BK:30:LEU:HD22	2.40	0.51
35:BM:36:GLY:O	35:BM:42:TRP:HA	2.10	0.51
35:BM:74:ARG:HG3	35:BM:76:SER:OG	2.10	0.51
36:BN:122:LEU:O	36:BN:122:LEU:HD23	2.10	0.51
36:BN:63:VAL:CG2	36:BN:82:ASN:OD1	2.47	0.51
37:BO:97:PRO:CD	37:BO:102:ARG:NH2	2.70	0.51
39:BQ:61:HIS:O	39:BQ:62:ALA:C	2.48	0.51
39:BQ:73:VAL:HG23	39:BQ:74:LYS:HD3	1.93	0.51
39:BQ:6:SER:OG	39:BQ:9:LYS:CE	2.58	0.51
40:BR:106:ARG:HH11	40:BR:106:ARG:CA	2.23	0.51
41:BS:103:ARG:CB	41:BS:107:ASP:OD1	2.57	0.51
42:BT:74:LEU:HB3	42:BT:78:THR:CB	2.40	0.51
43:BU:5:VAL:O	43:BU:6:LYS:HB2	2.09	0.51
44:BV:21:VAL:O	44:BV:25:ARG:HG3	2.11	0.51
44:BV:24:ILE:HG22	44:BV:35:ILE:CG2	2.40	0.51
44:BV:70:TYR:O	44:BV:107:LEU:HD12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BX:54:LYS:C	46:BX:56:PRO:HD3	2.31	0.51
47:BY:118:GLN:OE1	47:BY:118:GLN:HA	2.09	0.51
47:BY:27:VAL:CG1	47:BY:29:TYR:HD1	2.23	0.51
47:BY:69:THR:HA	47:BY:89:PHE:O	2.10	0.51
47:BY:95:PRO:HD2	47:BY:131:ARG:N	2.25	0.51
47:BY:158:PRO:O	47:BY:161:VAL:HG23	2.11	0.51
25:BA:1065:U:O2	25:BA:1066:U:O4'	2.28	0.51
34:BL:8:VAL:HG12	34:BL:10:LEU:HD22	1.92	0.51
34:BL:111:LYS:C	34:BL:113:PRO:CD	2.78	0.51
34:BL:88:ALA:O	34:BL:90:LYS:N	2.39	0.51
26:BB:88:C:P	26:BB:88:C:H6	2.34	0.51
25:BA:842:G:H2'	25:BA:843:G:H8	1.75	0.51
2:AC:27:U:C2	2:AC:28:C:C5	2.98	0.51
3:AD:67:C:H2'	3:AD:68:U:H5'	1.92	0.51
3:AD:35:A:C6	4:A1:14:A:C2	2.99	0.51
1:AA:994:A:N1	1:AA:1047:G:H4'	2.25	0.51
1:AA:971:G:P	1:AA:1231:G:H21	2.34	0.51
1:AA:1323:G:N1	1:AA:1324:A:N6	2.58	0.51
1:AA:1353:G:C2	1:AA:1354:C:C4	2.98	0.51
1:AA:976:G:N2	1:AA:1363:A:N7	2.59	0.51
1:AA:927:G:C6	1:AA:1391:U:N3	2.79	0.51
1:AA:1468:A:C8	1:AA:1469:G:C8	2.99	0.51
1:AA:150:C:H2'	1:AA:151:A:O5'	2.11	0.51
1:AA:1528:U:O2	1:AA:1530:G:C5'	2.59	0.51
1:AA:1528:U:N3	1:AA:1530:G:C8	2.78	0.51
1:AA:50:A:N6	1:AA:361:G:H4'	2.19	0.51
1:AA:405:U:H5''	1:AA:406:G:O4'	2.10	0.51
1:AA:451:A:C6	1:AA:480:U:H2'	2.45	0.51
1:AA:474:G:C2	1:AA:475:G:C8	2.98	0.51
1:AA:644:G:C6	1:AA:645:C:C2	2.98	0.51
2:AC:38:A:C2'	2:AC:39:C:O5'	2.58	0.51
5:AE:141:GLU:CD	5:AE:142:LEU:N	2.63	0.51
5:AE:175:ARG:HD2	5:AE:179:LYS:NZ	2.25	0.51
6:AF:12:LEU:O	6:AF:17:ASP:OD1	2.28	0.51
6:AF:25:GLY:C	6:AF:28:GLN:HE21	2.13	0.51
6:AF:77:ILE:HD13	6:AF:84:ILE:HB	1.93	0.51
7:AG:173:TRP:CD1	7:AG:189:PRO:HB3	2.45	0.51
1:AA:412:A:N3	7:AG:35:ARG:NH1	2.59	0.51
8:AH:88:LYS:HB3	8:AH:123:LEU:O	2.10	0.51
11:AK:92:ARG:HG2	11:AK:92:ARG:NH1	2.25	0.51
12:AL:38:GLN:HA	12:AL:38:GLN:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:5:TYR:O	12:AL:87:GLN:HG3	2.11	0.51
13:AM:4:ILE:HA	13:AM:100:THR:HA	1.91	0.51
13:AM:98:ILE:N	13:AM:98:ILE:HD12	2.25	0.51
15:AO:35:GLY:O	15:AO:82:VAL:HA	2.11	0.51
16:AP:10:PRO:HG2	16:AP:18:ALA:CB	2.31	0.51
17:AQ:59:ALA:HB1	17:AQ:61:TRP:HZ3	1.76	0.51
18:AR:8:LYS:O	18:AR:11:VAL:HG23	2.11	0.51
20:AT:52:LYS:O	20:AT:53:LEU:C	2.48	0.51
21:AU:33:ASP:CG	21:AU:34:TYR:N	2.64	0.51
21:AU:44:LEU:O	21:AU:45:SER:CB	2.59	0.51
1:AA:1227:A:OP1	22:AV:80:TYR:CZ	2.64	0.51
49:B1:36:ILE:CG2	49:B1:37:GLY:N	2.59	0.51
49:B1:55:LEU:H	49:B1:55:LEU:HD12	1.75	0.51
51:B3:35:VAL:HG12	51:B3:36:CYS:N	2.25	0.51
51:B3:55:ARG:C	51:B3:56:VAL:CG2	2.77	0.51
52:B4:52:TYR:O	52:B4:53:ALA:CB	2.59	0.51
53:B5:19:ARG:HG2	53:B5:43:CYS:CB	2.41	0.51
54:B6:41:ARG:CZ	54:B6:41:ARG:HB3	2.41	0.51
55:B7:16:ILE:HD13	55:B7:64:TYR:C	2.30	0.51
25:BA:649:G:O3'	55:B7:17:THR:HG21	2.11	0.51
55:B7:8:LYS:O	55:B7:9:GLY:C	2.49	0.51
25:BA:1015:G:C6	25:BA:1148:A:C5	2.99	0.51
25:BA:1157:G:O2'	50:B2:10:LYS:CE	2.58	0.51
25:BA:118:A:N9	25:BA:177:G:N2	2.59	0.51
25:BA:1189:A:C3'	25:BA:1190:G:H5'	2.39	0.51
25:BA:1422:G:N3	25:BA:1423:G:C8	2.78	0.51
25:BA:1424:G:H5'	25:BA:1499:C:O2'	2.11	0.51
25:BA:1476:C:N4	25:BA:1516:U:C2'	2.74	0.51
25:BA:699:A:H1'	25:BA:1634:A:N7	2.26	0.51
25:BA:1803:A:C8	25:BA:1804:C:C5	2.99	0.51
25:BA:1943:U:C6	25:BA:1945:G:H5''	2.46	0.51
25:BA:1769:G:N1	25:BA:1984:G:C5	2.78	0.51
25:BA:2190:G:C2	25:BA:2191:G:C8	2.98	0.51
25:BA:2215:G:N2	25:BA:2216:G:C4	2.78	0.51
25:BA:2417:C:C2	25:BA:2418:A:N7	2.79	0.51
25:BA:2439:A:H8	25:BA:2586:C:H4'	1.76	0.51
25:BA:2484:G:N2	25:BA:2485:G:H1'	2.26	0.51
25:BA:2060:A:O2'	25:BA:2502:G:O4'	2.22	0.51
25:BA:2061:G:N9	25:BA:2503:A:C2	2.79	0.51
25:BA:271(A):C:O2'	25:BA:271(B):G:O5'	2.29	0.51
25:BA:2741:A:O2'	25:BA:2742:C:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2781:A:C2	25:BA:2782:G:N3	2.79	0.51
25:BA:278:A:O4'	25:BA:278:A:OP1	2.29	0.51
25:BA:348:G:C2	25:BA:349:G:C8	2.98	0.51
25:BA:3:U:H6	25:BA:3:U:O5'	1.94	0.51
25:BA:607:U:C2	25:BA:608:A:N7	2.78	0.51
25:BA:618:G:C4	25:BA:618(A):C:C5	2.98	0.51
25:BA:603:A:N6	25:BA:625:G:N7	2.58	0.51
25:BA:635:C:C2'	25:BA:636:G:C5'	2.88	0.51
25:BA:665:C:C2	25:BA:666:G:N7	2.78	0.51
25:BA:763:G:O2'	25:BA:764:A:H3'	2.10	0.51
25:BA:860:U:C6	25:BA:860:U:C3'	2.91	0.51
25:BA:938:G:C2	25:BA:939:G:C5	2.98	0.51
25:BA:988:A:C2	25:BA:989:G:C2	2.99	0.51
25:BA:915:C:H1'	26:BB:100:G:H4'	1.92	0.51
27:BC:22:ILE:HG23	27:BC:189:ILE:CG2	2.39	0.51
27:BC:64:LEU:O	27:BC:66:HIS:N	2.42	0.51
28:BD:137:PRO:HG2	28:BD:140:THR:CB	2.41	0.51
28:BD:15:PHE:H	28:BD:20:ASP:CB	2.24	0.51
28:BD:13:ARG:NH1	28:BD:22:SER:OG	2.43	0.51
28:BD:248:SER:HB3	28:BD:249:PRO:CD	2.39	0.51
28:BD:5:LYS:HB3	28:BD:29:PRO:HD3	1.93	0.51
25:BA:1813:G:N3	28:BD:52:ARG:NH1	2.59	0.51
28:BD:59:LYS:HE3	28:BD:59:LYS:C	2.30	0.51
29:BE:143:ASN:ND2	29:BE:143:ASN:N	2.47	0.51
29:BE:30:PRO:HG2	29:BE:90:THR:CG2	2.40	0.51
29:BE:36:ARG:NH2	29:BE:41:LYS:NZ	2.58	0.51
30:BF:30:PRO:HA	30:BF:33:LEU:CG	2.41	0.51
25:BA:674:G:C4'	30:BF:74:ARG:HH12	2.22	0.51
31:BG:114:ILE:HD11	31:BG:115:ARG:NH2	2.23	0.51
31:BG:172:LEU:CD1	31:BG:176:LEU:HD12	2.41	0.51
32:BH:98:LEU:HD22	32:BH:100:GLY:O	2.11	0.51
35:BM:118:LYS:O	35:BM:121:LYS:CE	2.58	0.51
35:BM:4:TYR:OH	42:BT:101:ARG:NH1	2.44	0.51
35:BM:87:LEU:HD23	35:BM:88:GLU:H	1.74	0.51
36:BN:60:ALA:HB2	36:BN:86:ILE:HD11	1.92	0.51
37:BO:81:GLN:HG2	37:BO:86:LYS:HZ2	1.74	0.51
38:BP:68:ILE:HB	38:BP:103:MET:HE1	1.92	0.51
38:BP:54:MET:HB3	38:BP:58:PHE:HE2	1.74	0.51
38:BP:64:ILE:HG22	38:BP:105:GLU:HB3	1.93	0.51
40:BR:23:ARG:HE	40:BR:41:ASP:HB2	1.75	0.51
41:BS:17:THR:CG2	41:BS:20:PRO:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:76:TYR:CD2	42:BT:80:ILE:CD1	2.90	0.51
25:BA:1225:C:O4'	43:BU:87:HIS:HE1	1.93	0.51
46:BX:13:VAL:O	46:BX:69:ALA:HA	2.10	0.51
47:BY:68:PRO:HG3	47:BY:131:ARG:CZ	2.41	0.51
47:BY:130:PRO:O	47:BY:132:ASN:N	2.44	0.51
47:BY:17:ALA:O	47:BY:20:ARG:CB	2.54	0.51
47:BY:51:ALA:O	47:BY:54:HIS:HB2	2.11	0.51
48:BZ:31:VAL:HG23	48:BZ:65:GLY:O	2.09	0.51
34:BL:112:MET:HE1	34:BL:118:THR:HA	1.92	0.51
34:BL:94:GLU:O	34:BL:96:VAL:HG22	2.11	0.51
51:B3:13:ARG:O	51:B3:14:ILE:HG22	2.10	0.51
1:AA:91:C:N3	1:AA:92:G:N7	2.59	0.51
25:BA:2185:C:N3	25:BA:2186:G:N7	2.58	0.51
33:BK:19:VAL:HG12	33:BK:20:ASP:N	2.24	0.51
1:AA:1150:U:H5'	1:AA:1280:A:C2	2.46	0.51
1:AA:1189:C:HO2'	6:AF:176:HIS:CD2	2.29	0.51
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.11	0.51
1:AA:1048:G:H1'	1:AA:1215:G:H5'	1.92	0.51
1:AA:1301:U:C4	1:AA:1303:C:N1	2.79	0.51
1:AA:1341:U:C6	1:AA:1341:U:H3'	2.46	0.51
1:AA:1488:G:C2	1:AA:1489:G:C8	2.99	0.51
1:AA:188:U:O2'	1:AA:189:U:H5'	2.11	0.51
1:AA:219:C:N4	1:AA:220:G:C5	2.79	0.51
1:AA:251:G:C2	1:AA:266:G:C6	2.98	0.51
1:AA:301:G:C2	1:AA:302:G:N9	2.78	0.51
1:AA:394:G:C6	1:AA:395:C:N4	2.79	0.51
1:AA:443:C:C2	1:AA:492:G:C2	2.99	0.51
1:AA:580:U:C2'	1:AA:581:G:H8	2.23	0.51
1:AA:594:G:N7	1:AA:595:G:N2	2.59	0.51
1:AA:791:G:C4	1:AA:792:A:N7	2.79	0.51
1:AA:900:A:C5	1:AA:901:A:N7	2.79	0.51
1:AA:954:G:H2'	1:AA:955:U:O4'	2.11	0.51
1:AA:974:A:C1'	17:AQ:31:ARG:HH21	2.23	0.51
1:AA:979:C:OP2	1:AA:980:C:C5	2.63	0.51
2:AC:12:G:H1'	25:BA:1923:U:HO2'	1.73	0.51
2:AC:1:C:C2'	2:AC:2:G:H5'	2.41	0.51
3:AD:76:A:C2	25:BA:2432:A:O5'	2.63	0.51
6:AF:11:ARG:HB2	6:AF:15:THR:O	2.10	0.51
6:AF:150:LYS:NZ	6:AF:152:ILE:HG23	2.25	0.51
6:AF:89:GLU:C	6:AF:91:LEU:N	2.63	0.51
7:AG:130:GLY:HA3	7:AG:131:ARG:HH12	1.71	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:3:ARG:O	10:AJ:4:ARG:CB	2.59	0.51
10:AJ:57:GLU:O	10:AJ:61:VAL:HG23	2.10	0.51
10:AJ:71:PRO:O	10:AJ:96:GLN:NE2	2.43	0.51
11:AK:103:VAL:CG2	11:AK:110:ALA:HB2	2.41	0.51
11:AK:36:LEU:CD2	11:AK:59:LEU:HD13	2.37	0.51
11:AK:62:TYR:O	11:AK:63:LEU:O	2.29	0.51
11:AK:84:ARG:HH11	11:AK:84:ARG:CB	2.22	0.51
1:AA:1344:C:C4'	12:AL:120:ARG:HB3	2.33	0.51
12:AL:48:GLU:N	12:AL:49:PRO:CD	2.74	0.51
13:AM:36:GLY:O	13:AM:38:ILE:N	2.43	0.51
16:AP:21:TYR:CD2	16:AP:21:TYR:N	2.76	0.51
17:AQ:21:TYR:H	17:AQ:21:TYR:HD1	1.59	0.51
17:AQ:42:ILE:HA	17:AQ:45:ARG:CG	2.35	0.51
1:AA:1186:G:N2	17:AQ:61:TRP:O	2.29	0.51
21:AU:30:ASP:CG	21:AU:32:ARG:HB2	2.31	0.51
22:AV:24:ALA:C	22:AV:26:GLY:N	2.64	0.51
23:AW:66:ALA:O	23:AW:67:ALA:C	2.49	0.51
49:B1:25:ARG:NH2	49:B1:25:ARG:CG	2.73	0.51
51:B3:54:GLY:O	51:B3:55:ARG:CB	2.58	0.51
37:BO:56:SER:O	55:B7:13:ARG:NH2	2.44	0.51
56:B8:19:ARG:HG3	56:B8:22:ARG:O	2.11	0.51
25:BA:1047:G:C2	25:BA:1110:G:C4	2.98	0.51
25:BA:1287:A:N7	39:BQ:107:ASP:HB3	2.26	0.51
25:BA:143:C:H2'	25:BA:144:C:C6	2.46	0.51
25:BA:1479:G:H2'	25:BA:1480:G:H8	1.75	0.51
25:BA:1505:C:C2	25:BA:1506:C:C5	2.98	0.51
25:BA:1519:G:C4	25:BA:1520:U:O2	2.64	0.51
25:BA:1520:U:C3'	25:BA:1521:G:H5''	2.40	0.51
25:BA:1538:G:N2	25:BA:1539:G:C2	2.78	0.51
25:BA:154:G:C2	25:BA:155:C:C4	2.98	0.51
25:BA:1582:C:N3	25:BA:1583:A:C6	2.79	0.51
25:BA:1342:A:H61	25:BA:1602:U:H1'	1.75	0.51
25:BA:1605:C:O4'	25:BA:1610:A:C6	2.63	0.51
25:BA:1631:A:C6	25:BA:1683:C:H5'	2.45	0.51
25:BA:1642:G:H2'	25:BA:1643:G:O5'	2.09	0.51
25:BA:1665:A:N3	25:BA:1666:G:H1'	2.26	0.51
25:BA:1689:A:N1	25:BA:1700:A:C2	2.78	0.51
25:BA:1777:U:C2'	25:BA:1778:U:O5'	2.59	0.51
25:BA:1791:A:H4'	28:BD:206:LEU:CG	2.39	0.51
25:BA:1814:G:C3'	25:BA:1815:A:H8	2.23	0.51
25:BA:1814:G:H2'	25:BA:1815:A:N7	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1799:G:N1	25:BA:1819:A:C8	2.79	0.51
25:BA:1844:C:O2'	25:BA:1845:G:H5'	2.10	0.51
25:BA:1879:C:N4	25:BA:1880:C:N4	2.58	0.51
25:BA:1916:A:P	25:BA:1916:A:H3'	2.50	0.51
25:BA:1967:C:O2'	25:BA:1968:G:P	2.68	0.51
25:BA:2235:G:C2'	25:BA:2236:C:O5'	2.59	0.51
25:BA:234:C:C2'	25:BA:235:U:H5'	2.41	0.51
25:BA:2390:U:O2'	25:BA:2391:G:C5'	2.59	0.51
25:BA:2425:A:OP2	25:BA:2427:C:H5''	2.11	0.51
25:BA:2432:A:C8	25:BA:2433:A:C8	2.98	0.51
25:BA:2472:G:O6	25:BA:2476:A:H4'	2.10	0.51
25:BA:248:G:H21	25:BA:2431:U:C4'	2.23	0.51
25:BA:2547:U:H2'	25:BA:2548:G:H5''	1.93	0.51
25:BA:269:U:H1'	25:BA:424:G:N2	2.25	0.51
25:BA:2781:A:C2'	25:BA:2782:G:H4'	2.41	0.51
25:BA:2790:A:H2	25:BA:2894:G:N7	2.09	0.51
25:BA:2691:C:O2'	25:BA:2871:C:O2'	2.24	0.51
25:BA:2886:G:N2	25:BA:2887:U:C1'	2.73	0.51
25:BA:386:G:N3	25:BA:386:G:C2'	2.68	0.51
25:BA:546:C:H2'	25:BA:547:A:C4	2.46	0.51
25:BA:594:U:H5'	55:B7:61:LEU:HD13	1.92	0.51
25:BA:764:A:C5'	25:BA:765:G:OP2	2.59	0.51
25:BA:823:G:C5	25:BA:824:A:N7	2.79	0.51
25:BA:859:G:O2'	25:BA:2268:A:H1'	2.10	0.51
25:BA:918:A:H8	26:BB:80:U:C4'	2.22	0.51
25:BA:96:G:OP1	49:B1:43:HIS:NE2	2.37	0.51
26:BB:69:G:H5''	26:BB:70:C:OP2	2.11	0.51
27:BC:122:ALA:O	27:BC:126:LYS:HB2	2.11	0.51
28:BD:112:GLN:O	28:BD:115:GLN:HG2	2.11	0.51
28:BD:260:ARG:HG3	28:BD:260:ARG:HH11	1.74	0.51
25:BA:2680:C:C4'	29:BE:187:ALA:O	2.57	0.51
29:BE:45:THR:HG1	29:BE:83:ASP:HB2	1.74	0.51
29:BE:8:LYS:HZ3	29:BE:193:GLY:CA	2.23	0.51
29:BE:92:THR:O	29:BE:92:THR:CG2	2.57	0.51
30:BF:11:VAL:HG12	30:BF:12:LEU:N	2.26	0.51
30:BF:167:ALA:HB1	30:BF:173:VAL:HG21	1.93	0.51
30:BF:158:THR:HG23	30:BF:196:LEU:HD12	1.93	0.51
31:BG:138:GLN:HB2	31:BG:152:LEU:O	2.11	0.51
31:BG:172:LEU:HD12	31:BG:176:LEU:HD12	1.92	0.51
33:BK:2:LYS:NZ	33:BK:39:ALA:CB	2.73	0.51
35:BM:13:TRP:HB2	35:BM:136:GLU:CD	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:76:SER:HB3	35:BM:81:GLY:H	1.76	0.51
36:BN:102:VAL:O	36:BN:104:ARG:N	2.44	0.51
36:BN:106:LEU:CD2	41:BS:38:ASN:ND2	2.72	0.51
36:BN:122:LEU:HA	41:BS:74:ARG:HH12	1.75	0.51
36:BN:77:ILE:O	41:BS:75:ILE:CD1	2.59	0.51
37:BO:107:LYS:HB2	37:BO:110:TYR:CD1	2.46	0.51
38:BP:11:LYS:NZ	38:BP:16:ARG:NH2	2.58	0.51
38:BP:37:LEU:CB	38:BP:129:THR:HA	2.39	0.51
39:BQ:113:LEU:CD1	39:BQ:113:LEU:C	2.79	0.51
39:BQ:35:THR:HG23	39:BQ:113:LEU:HD23	1.92	0.51
39:BQ:49:ASP:O	39:BQ:52:ILE:HG22	2.10	0.51
39:BQ:67:LEU:C	39:BQ:67:LEU:HD13	2.31	0.51
40:BR:70:GLY:HA2	40:BR:101:LEU:HD13	1.93	0.51
40:BR:64:GLU:CD	40:BR:67:ARG:HB3	2.29	0.51
40:BR:66:ALA:O	40:BR:67:ARG:C	2.48	0.51
41:BS:95:ARG:HD2	41:BS:96:ARG:NH2	2.26	0.51
42:BT:14:HIS:O	42:BT:18:LEU:HD23	2.10	0.51
42:BT:58:ARG:NH1	42:BT:58:ARG:HB2	2.25	0.51
42:BT:97:ASP:CB	42:BT:101:ARG:HE	2.24	0.51
43:BU:5:VAL:CG1	43:BU:37:VAL:HG13	2.15	0.51
25:BA:1225:C:O4'	43:BU:87:HIS:CE1	2.63	0.51
44:BV:34:ASN:HA	44:BV:37:ARG:HE	1.74	0.51
44:BV:33:ARG:CZ	44:BV:37:ARG:HG2	2.41	0.51
44:BV:55:ALA:O	44:BV:58:ALA:HB3	2.11	0.51
45:BW:18:TYR:OH	45:BW:96:ILE:HD11	2.10	0.51
46:BX:26:LYS:HB3	46:BX:36:ALA:CB	2.30	0.51
46:BX:67:LEU:CD1	46:BX:71:LYS:NZ	2.74	0.51
47:BY:95:PRO:CG	47:BY:131:ARG:HG3	2.40	0.51
47:BY:153:SER:O	47:BY:154:ASP:C	2.49	0.51
48:BZ:72:ARG:CD	48:BZ:75:LEU:HD13	2.40	0.51
46:BX:88:LYS:HB3	46:BX:91:GLU:CD	2.31	0.51
1:AA:1001:G:C5	1:AA:1002:G:H1'	2.45	0.51
27:BC:68:LEU:CG	27:BC:69:GLY:N	2.72	0.51
1:AA:996:A:N3	1:AA:996:A:H2'	2.26	0.51
1:AA:1118:C:OP1	12:AL:104:ARG:CG	2.57	0.51
1:AA:1166:G:C2	1:AA:1171:G:O6	2.64	0.51
1:AA:1305:G:OP1	24:AX:2:GLY:N	2.44	0.51
1:AA:1329:A:C2'	1:AA:1330:U:H5'	2.40	0.51
1:AA:142:G:H2'	1:AA:143:A:H8	1.74	0.51
1:AA:1431:C:H2'	1:AA:1432:G:H5'	1.92	0.51
1:AA:1433:A:H2'	1:AA:1434:A:O4'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1438:G:C5	1:AA:1439:C:C5	2.99	0.51
1:AA:1394:A:C8	1:AA:1501:C:H1'	2.43	0.51
1:AA:1515:C:H2'	1:AA:1516:G:C8	2.44	0.51
1:AA:174:C:N1	1:AA:175:C:H5	2.08	0.51
1:AA:338:A:C6	1:AA:339:C:C4	2.99	0.51
1:AA:342:C:C2	1:AA:343:U:C5	2.99	0.51
1:AA:445:G:N2	1:AA:446:G:C4	2.78	0.51
1:AA:467:G:C2	1:AA:468:A:C5	2.99	0.51
1:AA:518:C:C6	1:AA:530:G:C8	2.98	0.51
1:AA:573:A:OP2	1:AA:574:A:OP2	2.29	0.51
1:AA:58:C:O2	1:AA:388:G:C8	2.64	0.51
1:AA:68:G:H2'	1:AA:69:G:O4'	2.11	0.51
1:AA:883:C:C5'	1:AA:884:U:OP2	2.58	0.51
1:AA:907:A:C3'	1:AA:908:A:H8	2.23	0.51
1:AA:959:A:H2'	1:AA:960:U:H4'	1.92	0.51
1:AA:961:U:H1'	1:AA:1201:A:N6	2.17	0.51
2:AC:21:A:N1	2:AC:48:C:C4	2.79	0.51
2:AC:36:U:C4	2:AC:37:A:N7	2.79	0.51
3:AD:1:G:O6	3:AD:73:A:N6	2.44	0.51
3:AD:56:C:C5'	27:BC:133:PRO:O	2.59	0.51
5:AE:102:LEU:HD22	5:AE:176:GLU:HB3	1.92	0.51
5:AE:169:LYS:CE	5:AE:169:LYS:C	2.79	0.51
5:AE:52:GLU:O	5:AE:53:ARG:C	2.49	0.51
5:AE:74:LYS:HD2	5:AE:76:GLN:N	2.26	0.51
5:AE:97:TRP:HE3	5:AE:172:ILE:HB	1.75	0.51
6:AF:15:THR:HG21	6:AF:181:ASN:CA	2.40	0.51
6:AF:46:GLU:O	6:AF:47:LEU:HD22	2.10	0.51
7:AG:18:LYS:HB3	7:AG:20:TYR:CD1	2.46	0.51
7:AG:38:TYR:CZ	7:AG:45:GLN:NE2	2.79	0.51
7:AG:74:GLN:CA	7:AG:77:ASN:ND2	2.68	0.51
7:AG:83:SER:C	7:AG:85:LYS:H	2.12	0.51
8:AH:101:ILE:O	8:AH:102:ALA:HB2	2.10	0.51
8:AH:109:ILE:HD13	8:AH:135:THR:CG2	2.41	0.51
1:AA:1079:G:OP1	8:AH:45:PHE:CE2	2.63	0.51
10:AJ:75:VAL:HG11	10:AJ:86:GLN:HB3	1.91	0.51
11:AK:98:LYS:HA	11:AK:100:ILE:CD1	2.41	0.51
5:AE:181:PHE:CE1	11:AK:71:GLY:N	2.79	0.51
12:AL:48:GLU:HB3	12:AL:78:LYS:HZ1	1.70	0.51
12:AL:4:TYR:HB3	12:AL:87:GLN:CB	2.41	0.51
14:AN:50:TYR:O	14:AN:55:LYS:HD2	2.11	0.51
15:AO:90:VAL:O	15:AO:91:LYS:C	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:56:LEU:HD12	18:AR:56:LEU:O	2.11	0.51
19:AS:23:ASP:OD1	19:AS:25:ARG:HG3	2.10	0.51
20:AT:23:VAL:C	20:AT:24:GLU:OE1	2.49	0.51
20:AT:5:VAL:CG1	20:AT:6:LEU:H	2.22	0.51
21:AU:21:LYS:HZ3	21:AU:23:LYS:N	2.08	0.51
22:AV:13:ASP:O	22:AV:17:GLU:CG	2.58	0.51
22:AV:37:ARG:O	22:AV:70:LYS:HG3	2.10	0.51
22:AV:41:VAL:CB	22:AV:42:PRO:CD	2.86	0.51
1:AA:192:U:O4'	23:AW:103:GLY:HA2	2.11	0.51
23:AW:98:PRO:O	23:AW:99:LEU:O	2.29	0.51
49:B1:29:GLU:HA	49:B1:32:PHE:HD2	1.76	0.51
49:B1:51:GLN:O	49:B1:55:LEU:HD13	2.10	0.51
50:B2:10:LYS:HG3	50:B2:31:LEU:HD11	1.93	0.51
50:B2:25:ALA:O	50:B2:26:LEU:C	2.47	0.51
51:B3:48:ARG:HB3	51:B3:49:PHE:CE1	2.46	0.51
53:B5:20:ASN:CG	53:B5:42:TRP:HD1	2.13	0.51
53:B5:7:ILE:C	53:B5:9:LEU:N	2.62	0.51
54:B6:10:ARG:O	54:B6:11:LYS:C	2.48	0.51
54:B6:17:GLY:HA2	54:B6:44:PRO:CB	2.41	0.51
25:BA:1215:G:H2'	25:BA:1216:G:C5'	2.41	0.51
25:BA:1200:C:N3	25:BA:1246:A:C2	2.79	0.51
25:BA:1332:G:C5	25:BA:1609:A:C6	2.99	0.51
25:BA:1369:G:H2'	25:BA:1370:C:O4'	2.11	0.51
25:BA:1444:G:H5'	25:BA:1444(A):A:P	2.50	0.51
25:BA:1464:C:O4'	25:BA:1528:A:O2'	2.25	0.51
25:BA:1489:U:O2'	25:BA:1490:A:OP2	2.27	0.51
25:BA:1483:G:C8	25:BA:1507:A:C6	2.99	0.51
25:BA:1475:G:C8	25:BA:1517:G:N2	2.78	0.51
25:BA:1518:C:C2'	25:BA:1519:G:C4'	2.80	0.51
25:BA:1550:C:O2'	25:BA:1551:C:H5'	2.11	0.51
25:BA:1559:G:O6	25:BA:1560:G:O4'	2.28	0.51
25:BA:1591:G:C2	25:BA:1592:C:C4	2.99	0.51
25:BA:1609:A:C8	25:BA:1616:A:N3	2.77	0.51
25:BA:1790:C:O2	25:BA:1790:C:C2'	2.59	0.51
25:BA:1798:U:C5'	28:BD:257:LEU:HB2	2.40	0.51
25:BA:47:C:N4	25:BA:179:G:O6	2.43	0.51
25:BA:1802:A:C5'	25:BA:1803:A:OP2	2.58	0.51
25:BA:1846:G:C2	25:BA:1895:C:C2	2.98	0.51
25:BA:1913:A:N1	25:BA:1918:A:N7	2.58	0.51
25:BA:2074:U:O2	25:BA:2075:U:H5	1.93	0.51
25:BA:2305:A:H4'	31:BG:136:ARG:HG2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2313:C:O4'	31:BG:40:ASN:OD1	2.29	0.51
25:BA:2376:A:C2	25:BA:2377:A:C4	2.99	0.51
25:BA:2519:U:H4'	25:BA:2520:C:OP1	2.11	0.51
25:BA:2544:G:H2'	25:BA:2545:G:O4'	2.11	0.51
25:BA:2586:C:H42	25:BA:2587:A:N6	2.08	0.51
25:BA:2591:C:C2'	25:BA:2592:G:H8	2.17	0.51
25:BA:270(D):C:H2'	25:BA:270(E):G:C8	2.45	0.51
25:BA:329:G:N1	25:BA:477:A:C2	2.79	0.51
25:BA:339:U:H2'	25:BA:340:A:N9	2.24	0.51
25:BA:412:A:O2'	25:BA:413:C:H5'	2.10	0.51
25:BA:452:G:N2	25:BA:458:G:C2	2.78	0.51
25:BA:493:G:C2	25:BA:494:G:C4	2.99	0.51
25:BA:530:G:HO2'	25:BA:531:C:P	2.33	0.51
25:BA:571:A:N3	25:BA:573:G:C8	2.79	0.51
25:BA:574:C:C5	25:BA:2054:A:O3'	2.61	0.51
25:BA:59:U:H3'	25:BA:60:G:H5''	1.93	0.51
25:BA:676:A:O2'	25:BA:677:A:H5'	2.11	0.51
25:BA:745:G:C3'	25:BA:746:A:H5'	2.38	0.51
25:BA:920:G:H21	25:BA:921:G:C1'	2.24	0.51
25:BA:959:A:C5	25:BA:960:A:N7	2.79	0.51
26:BB:75:G:H2'	47:BY:85:HIS:CE1	2.42	0.51
28:BD:55:GLY:N	28:BD:219:PRO:HD3	2.09	0.51
28:BD:89:SER:O	28:BD:159:ALA:HB2	2.11	0.51
29:BE:120:TRP:NE1	29:BE:121:ASN:O	2.44	0.51
29:BE:117:MET:HA	29:BE:123:ALA:CB	2.41	0.51
29:BE:13:ARG:HH11	29:BE:21:VAL:N	2.08	0.51
29:BE:178:GLU:O	29:BE:179:GLU:C	2.49	0.51
29:BE:179:GLU:HB2	29:BE:181:LEU:CD1	2.41	0.51
29:BE:79:ARG:CG	29:BE:80:GLU:N	2.74	0.51
30:BF:162:LEU:C	30:BF:165:ARG:HB3	2.31	0.51
30:BF:176:LEU:CD1	30:BF:178:PRO:HD2	2.41	0.51
31:BG:105:LYS:C	31:BG:109:VAL:HG22	2.30	0.51
31:BG:78:SER:HB3	31:BG:82:LEU:CB	2.41	0.51
32:BH:103:LEU:O	32:BH:113:VAL:O	2.28	0.51
32:BH:116:GLU:O	32:BH:117:PRO:C	2.49	0.51
35:BM:107:LEU:CD2	35:BM:107:LEU:O	2.51	0.51
35:BM:121:LYS:HB3	35:BM:123:TYR:OH	2.10	0.51
35:BM:127:ASP:O	35:BM:130:HIS:CB	2.53	0.51
35:BM:136:GLU:C	35:BM:137:LYS:CG	2.79	0.51
35:BM:25:ARG:HA	35:BM:28:THR:CG2	2.38	0.51
25:BA:2640:G:O3'	35:BM:75:TYR:CE1	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:3:GLN:CG	36:BN:6:THR:HG21	2.41	0.51
37:BO:114:ILE:N	37:BO:114:ILE:CD1	2.74	0.51
37:BO:114:ILE:C	37:BO:116:GLY:H	2.14	0.51
37:BO:13:ASN:O	37:BO:15:ARG:N	2.43	0.51
37:BO:76:LYS:NZ	37:BO:96:THR:CG2	2.70	0.51
38:BP:34:LEU:HD12	38:BP:104:PHE:HA	1.92	0.51
38:BP:6:ARG:NE	38:BP:8:LYS:HG2	2.26	0.51
39:BQ:102:GLU:CD	39:BQ:103:ARG:HG2	2.30	0.51
39:BQ:83:ILE:HG23	39:BQ:86:ARG:CZ	2.41	0.51
41:BS:65:LYS:HA	41:BS:76:PHE:C	2.31	0.51
42:BT:48:ALA:O	42:BT:51:LYS:HB2	2.09	0.51
43:BU:23:GLU:HB2	43:BU:93:GLU:CB	2.39	0.51
43:BU:35:LEU:N	43:BU:64:HIS:HE2	2.09	0.51
43:BU:1:MET:CE	43:BU:45:THR:HG23	2.41	0.51
47:BY:110:GLY:HA2	47:BY:145:GLU:HG3	1.92	0.51
47:BY:153:SER:HB2	47:BY:168:GLU:CB	2.41	0.51
25:BA:2261:C:OP2	48:BZ:16:SER:HA	2.11	0.51
33:BK:116:LEU:HD11	33:BK:119:PRO:CA	2.41	0.51
33:BK:120:ILE:HD11	33:BK:122:GLU:HG2	1.93	0.51
25:BA:1065:U:N3	25:BA:1066:U:H6	2.08	0.51
25:BA:1061:U:O2'	25:BA:1070:A:N3	2.42	0.51
1:AA:1120:G:C2'	1:AA:1121:U:O5'	2.57	0.51
1:AA:1032(B):G:C2	1:AA:1033:G:C4	2.99	0.51
1:AA:210:U:H5'	1:AA:216:G:OP1	2.11	0.51
26:BB:3:C:H2'	26:BB:4:C:O4'	2.10	0.51
10:AJ:67:GLU:OE2	10:AJ:67:GLU:CA	2.58	0.51
1:AA:1213:A:C2	1:AA:1215:G:N9	2.78	0.51
1:AA:1291:G:N2	1:AA:1292:U:O2	2.44	0.51
1:AA:1464:G:OP2	41:BS:112:ARG:NH2	2.44	0.51
1:AA:1486:G:N2	1:AA:1487:G:N3	2.59	0.51
1:AA:155:C:C2	1:AA:167:G:C2	2.99	0.51
1:AA:197:A:H61	1:AA:220:G:C2'	2.24	0.51
1:AA:173:U:N1	1:AA:197:A:N3	2.53	0.51
1:AA:251:G:C5'	1:AA:252:U:OP1	2.59	0.51
1:AA:323:U:O4	1:AA:324:G:C2	2.64	0.51
1:AA:109:A:N6	1:AA:326:G:O6	2.44	0.51
1:AA:59:A:C5	1:AA:354:G:C6	2.99	0.51
1:AA:401:C:O5'	1:AA:401:C:H6	1.93	0.51
1:AA:445:G:C6	1:AA:490:G:C6	2.98	0.51
1:AA:553:A:H2'	1:AA:554:C:C1'	2.41	0.51
1:AA:55:A:O2'	1:AA:56:U:H5'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:622:A:C2'	1:AA:623:C:C5'	2.86	0.51
1:AA:741:G:O2'	1:AA:742:G:C5'	2.59	0.51
1:AA:755:G:OP2	18:AR:65:ARG:CG	2.58	0.51
1:AA:797:C:C2	1:AA:798:G:C8	2.99	0.51
2:AC:16:C:H4'	2:AC:18:G:H5'	1.93	0.51
2:AC:38:A:H2'	2:AC:39:C:O5'	2.10	0.51
3:AD:58:A:N1	3:AD:61:C:H1'	2.26	0.51
5:AE:24:TRP:HA	5:AE:190:THR:O	2.11	0.51
6:AF:32:LEU:O	6:AF:35:GLU:HG2	2.11	0.51
6:AF:58:GLU:O	6:AF:59:ARG:NH2	2.43	0.51
7:AG:106:TYR:HE1	7:AG:112:VAL:CA	2.24	0.51
8:AH:27:ARG:HH22	8:AH:47:LYS:HB3	1.73	0.51
9:AI:6:VAL:O	9:AI:6:VAL:CG1	2.59	0.51
1:AA:939:G:H5''	10:AJ:102:ARG:CZ	2.40	0.51
10:AJ:10:ARG:CG	10:AJ:10:ARG:HH11	2.24	0.51
10:AJ:5:ARG:CG	10:AJ:5:ARG:HH11	2.23	0.51
11:AK:82:HIS:HD2	11:AK:138:TRP:CD1	2.29	0.51
12:AL:19:LEU:HD13	12:AL:59:PHE:HD2	1.74	0.51
13:AM:3:LYS:HG3	13:AM:75:ILE:HG23	1.93	0.51
14:AN:84:VAL:HG22	14:AN:109:VAL:O	2.11	0.51
15:AO:9:GLN:O	15:AO:12:ARG:N	2.41	0.51
15:AO:53:ARG:NE	15:AO:93:LEU:HD22	2.26	0.51
20:AT:31:LEU:O	20:AT:32:TYR:CD2	2.64	0.51
20:AT:10:VAL:HG23	20:AT:55:ASP:HB2	1.90	0.51
23:AW:49:ALA:HB3	23:AW:99:LEU:CG	2.38	0.51
23:AW:64:ASP:O	23:AW:67:ALA:N	2.44	0.51
23:AW:26:ASN:HB3	23:AW:71:THR:HG22	1.93	0.51
24:AX:14:TRP:CZ3	24:AX:15:ARG:NE	2.79	0.51
50:B2:50:VAL:O	50:B2:52:HIS:ND1	2.43	0.51
50:B2:6:VAL:HB	50:B2:35:ARG:NH2	2.24	0.51
54:B6:33:ARG:CG	54:B6:37:LYS:HD3	2.40	0.51
54:B6:48:LYS:CD	54:B6:49:ARG:H	2.24	0.51
55:B7:12:LYS:CG	55:B7:13:ARG:HH22	2.20	0.51
55:B7:30:ARG:HH22	55:B7:42:ARG:C	2.14	0.51
25:BA:1213:A:N3	25:BA:1213:A:H2'	2.24	0.51
25:BA:1264:G:C3'	25:BA:1265:A:C5'	2.88	0.51
25:BA:1268:A:N6	25:BA:2013:A:C8	2.78	0.51
25:BA:1298:C:H4'	25:BA:1302:A:N6	2.26	0.51
25:BA:1430:C:C2	25:BA:1431:U:C5	2.99	0.51
25:BA:1519:G:C2'	25:BA:1520:U:O4'	2.59	0.51
25:BA:1394:U:H4'	25:BA:1603:A:H5''	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1688:U:C2	25:BA:1700:A:H5''	2.46	0.51
25:BA:1704:G:C5	25:BA:1705:G:C8	2.99	0.51
25:BA:173:G:N2	25:BA:174:C:C5	2.78	0.51
25:BA:1743:G:H4'	25:BA:1743:G:OP1	2.03	0.51
25:BA:1926:U:O2'	25:BA:1927:A:H8	1.92	0.51
25:BA:2097:C:C4	25:BA:2193:G:C6	2.98	0.51
25:BA:2298:A:C4'	25:BA:2322:A:O2'	2.58	0.51
25:BA:2309:A:N3	25:BA:2309:A:H2'	2.26	0.51
25:BA:237:C:O2	25:BA:608:A:O2'	2.29	0.51
25:BA:2472:G:H1	25:BA:2475:C:H2'	1.76	0.51
25:BA:2472:G:H1'	25:BA:2478:A:N6	2.25	0.51
25:BA:2484:G:C2	25:BA:2485:G:C8	2.99	0.51
25:BA:266:G:H5''	25:BA:266:G:H8	1.76	0.51
25:BA:2761:G:C2'	25:BA:2762:G:H5'	2.40	0.51
25:BA:2808:U:C2	25:BA:2892:A:C6	2.99	0.51
25:BA:2816:C:N3	25:BA:2817:G:N7	2.59	0.51
25:BA:2820:A:H61	29:BE:192:ASN:CG	2.15	0.51
25:BA:2820:A:O3'	39:BQ:4:LEU:CD2	2.54	0.51
25:BA:82:G:H5''	25:BA:296:C:OP1	2.11	0.51
25:BA:417:C:O2'	25:BA:418:G:H5'	2.10	0.51
25:BA:585:G:C2'	25:BA:586:A:C8	2.94	0.51
25:BA:58:G:C2	25:BA:59:U:C2	2.99	0.51
25:BA:60:G:O2'	25:BA:61:G:P	2.69	0.51
25:BA:678:C:C4	25:BA:679:C:C5	2.99	0.51
25:BA:685:A:C6	25:BA:774:A:C2	2.99	0.51
25:BA:793:A:N3	25:BA:793:A:H2'	2.25	0.51
25:BA:856:C:O2'	48:BZ:69:PHE:CE1	2.64	0.51
25:BA:90:U:C3'	25:BA:90:U:C6	2.93	0.51
25:BA:923:C:C6	25:BA:923:C:C4'	2.94	0.51
25:BA:928:G:H2'	25:BA:929:G:H5'	1.93	0.51
25:BA:977:G:N3	25:BA:978:G:H1'	2.26	0.51
26:BB:103:U:O2	47:BY:72:ARG:HD2	2.10	0.51
26:BB:75:G:C6	26:BB:76:G:C2	2.99	0.51
27:BC:54:SER:C	27:BC:56:GLN:H	2.14	0.51
25:BA:2130:U:P	27:BC:6:ARG:HB3	2.50	0.51
27:BC:73:ARG:HB3	27:BC:93:TYR:CE2	2.46	0.51
27:BC:6:ARG:C	27:BC:8:ARG:H	2.14	0.51
28:BD:148:GLU:O	28:BD:154:LYS:NZ	2.42	0.51
28:BD:217:ARG:HG3	28:BD:218:ARG:HG2	1.93	0.51
28:BD:33:LEU:HD23	28:BD:33:LEU:N	2.17	0.51
29:BE:170:LEU:HD12	29:BE:186:GLY:CA	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:36:ARG:HH21	29:BE:41:LYS:NZ	2.09	0.51
30:BF:171:PRO:O	30:BF:173:VAL:N	2.44	0.51
30:BF:176:LEU:HG	30:BF:178:PRO:CD	2.24	0.51
30:BF:37:VAL:CA	30:BF:184:TYR:CZ	2.90	0.51
31:BG:114:ILE:CB	31:BG:140:ILE:HG13	2.41	0.51
31:BG:114:ILE:HD12	31:BG:115:ARG:HG3	1.92	0.51
31:BG:47:LYS:NZ	31:BG:73:ALA:HB2	2.26	0.51
32:BH:127:GLU:CB	32:BH:130:ARG:H	2.16	0.51
33:BK:24:GLY:H	33:BK:27:ARG:NH1	2.07	0.51
35:BM:123:TYR:CB	35:BM:129:PRO:CB	2.89	0.51
35:BM:13:TRP:CE2	35:BM:51:PHE:CG	2.99	0.51
35:BM:36:GLY:HA2	35:BM:47:ALA:O	2.10	0.51
35:BM:99:LEU:HD21	35:BM:122:VAL:CG2	2.18	0.51
36:BN:121:VAL:O	36:BN:122:LEU:HB2	2.11	0.51
36:BN:1:MET:SD	36:BN:2:ILE:HD11	2.51	0.51
36:BN:39:ILE:HD12	36:BN:61:VAL:HG23	1.92	0.51
36:BN:3:GLN:HG2	36:BN:6:THR:HG21	1.92	0.51
37:BO:115:LEU:O	37:BO:116:GLY:O	2.28	0.51
37:BO:124:LYS:HB2	37:BO:143:GLY:CA	2.30	0.51
37:BO:40:SER:O	37:BO:42:SER:N	2.44	0.51
37:BO:72:PRO:HD2	37:BO:111:ARG:HD3	1.93	0.51
38:BP:28:ALA:HA	38:BP:104:PHE:HD2	1.74	0.51
38:BP:127:ILE:HD12	38:BP:127:ILE:N	2.26	0.51
38:BP:130:LYS:O	38:BP:131:ILE:HG13	2.10	0.51
38:BP:22:LYS:CE	38:BP:23:GLY:N	2.71	0.51
38:BP:65:PHE:H	38:BP:105:GLU:HB3	1.75	0.51
38:BP:6:ARG:HE	38:BP:8:LYS:HG2	1.75	0.51
40:BR:57:LYS:NZ	40:BR:62:LYS:HG3	2.26	0.51
41:BS:64:ARG:O	41:BS:66:VAL:N	2.42	0.51
25:BA:2848:G:H8	41:BS:99:LEU:HD13	1.67	0.51
42:BT:110:VAL:O	42:BT:114:LYS:HE3	2.11	0.51
43:BU:39:LEU:HD12	43:BU:58:VAL:HB	1.92	0.51
44:BV:4:LYS:H	44:BV:4:LYS:CD	2.24	0.51
45:BW:92:LEU:O	45:BW:95:LEU:CB	2.50	0.51
46:BX:97:ARG:HG2	46:BX:101:LYS:HG2	1.92	0.51
46:BX:14:LEU:HD22	46:BX:19:LYS:CB	2.34	0.51
46:BX:83:THR:HG22	46:BX:84:ARG:H	1.76	0.51
47:BY:50:GLN:C	47:BY:52:SER:H	2.13	0.51
47:BY:76:LEU:HD23	47:BY:83:PRO:HD3	1.93	0.51
48:BZ:4:LYS:O	48:BZ:4:LYS:HG3	2.10	0.51
48:BZ:51:VAL:HG23	48:BZ:80:HIS:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1059:G:H3'	25:BA:1059:G:C8	2.46	0.51
34:BL:98:ARG:HH11	34:BL:139:VAL:HG11	1.75	0.51
1:AA:1539:C:H2'	1:AA:1540:U:C5'	2.40	0.51
46:BX:86:ARG:O	46:BX:91:GLU:CG	2.58	0.51
22:AV:30:LEU:HD21	22:AV:50:ALA:CB	2.39	0.51
25:BA:2152:G:O2'	25:BA:2153:G:H5'	2.10	0.51
1:AA:1470:G:O2'	1:AA:1471:G:C5'	2.57	0.51
1:AA:1474:G:C2	1:AA:1475:G:N7	2.79	0.51
1:AA:155:C:H2'	1:AA:156:G:O4'	2.11	0.51
1:AA:302:G:H2'	1:AA:556:C:C5'	2.35	0.51
1:AA:411:A:C5	1:AA:413:G:H1'	2.46	0.51
1:AA:451:A:C8	1:AA:481:G:C6	2.98	0.51
1:AA:507:C:P	1:AA:508:C:H3'	2.50	0.51
1:AA:529:G:O6	15:AO:49:ASN:CB	2.59	0.51
1:AA:545:C:OP2	7:AG:62:GLN:OE1	2.29	0.51
1:AA:622:A:C2'	1:AA:623:C:O5'	2.59	0.51
1:AA:628:G:C2'	1:AA:629:G:C8	2.85	0.51
1:AA:640:A:N7	1:AA:641:U:C5	2.79	0.51
1:AA:690:G:H2'	1:AA:691:G:O5'	2.11	0.51
1:AA:697:U:C6	1:AA:697:U:O5'	2.57	0.51
1:AA:718:G:C8	1:AA:719:C:C5	2.99	0.51
1:AA:914:A:HO2'	1:AA:915:A:C5'	2.24	0.51
1:AA:991:U:OP2	1:AA:991:U:H6	1.93	0.51
2:AC:12:G:C2'	2:AC:13:C:O5'	2.58	0.51
2:AC:34:C:C2	2:AC:35:A:C8	2.99	0.51
3:AD:14:A:C2	3:AD:15:G:C5	2.98	0.51
5:AE:126:GLU:O	5:AE:127:ILE:C	2.50	0.51
5:AE:213:LEU:CD2	5:AE:214:ILE:HD13	2.41	0.51
5:AE:223:ILE:O	5:AE:226:ARG:HB3	2.10	0.51
5:AE:28:PHE:CE2	5:AE:189:ASP:O	2.60	0.51
6:AF:91:LEU:HD12	6:AF:99:VAL:HG22	1.92	0.51
9:AI:33:TYR:CE1	9:AI:75:LEU:HA	2.46	0.51
9:AI:87:ARG:HG2	9:AI:87:ARG:HH11	1.74	0.51
11:AK:102:ARG:NH1	11:AK:102:ARG:CG	2.71	0.51
11:AK:19:VAL:HG23	11:AK:21:LYS:CG	2.31	0.51
11:AK:98:LYS:HD3	11:AK:98:LYS:H	1.76	0.51
13:AM:84:GLN:O	13:AM:88:LEU:HB2	2.11	0.51
1:AA:691:G:N7	14:AN:26:ASN:HB3	2.26	0.51
14:AN:44:SER:O	14:AN:47:VAL:HB	2.11	0.51
14:AN:53:SER:O	14:AN:55:LYS:N	2.44	0.51
14:AN:77:MET:SD	14:AN:79:SER:O	2.68	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:521:G:P	15:AO:54:LYS:HE2	2.51	0.51
18:AR:42:HIS:O	18:AR:43:LEU:C	2.49	0.51
19:AS:51:VAL:HB	19:AS:77:ALA:HB1	1.93	0.51
23:AW:16:HIS:O	23:AW:17:ARG:C	2.49	0.51
23:AW:48:LYS:HB3	23:AW:51:GLU:CD	2.30	0.51
23:AW:53:LEU:CA	23:AW:56:MET:HB2	2.33	0.51
50:B2:8:LEU:HD12	50:B2:31:LEU:O	2.11	0.51
51:B3:12:ALA:N	51:B3:40:HIS:NE2	2.58	0.51
51:B3:64:GLY:O	51:B3:65:ASP:C	2.48	0.51
51:B3:65:ASP:HA	51:B3:68:ARG:NH1	2.17	0.51
53:B5:14:THR:HA	53:B5:51:GLU:HA	1.91	0.51
53:B5:19:ARG:NH2	53:B5:41:PRO:HG3	2.26	0.51
53:B5:48:VAL:HG22	53:B5:49:HIS:N	2.25	0.51
56:B8:4:ARG:O	56:B8:5:ALA:CB	2.59	0.51
25:BA:1022:G:C2'	25:BA:1025:G:O6	2.58	0.51
25:BA:1049:C:C6	25:BA:1049:C:C3'	2.94	0.51
25:BA:1142(A):A:N1	25:BA:1143:A:N7	2.55	0.51
25:BA:974:G:C1'	25:BA:1186:G:C5	2.93	0.51
25:BA:1205:U:O5'	25:BA:1206:G:OP1	2.29	0.51
25:BA:1224:G:H8	25:BA:1224:G:OP1	1.93	0.51
25:BA:1266:G:H2'	25:BA:1267:U:OP2	2.11	0.51
25:BA:1366:A:H2'	25:BA:1366:A:N3	2.26	0.51
25:BA:1382:G:H2'	25:BA:1383:C:C6	2.46	0.51
25:BA:1392:A:C5	25:BA:1393:A:C6	2.99	0.51
25:BA:1394:U:O2	25:BA:1394:U:H2'	2.11	0.51
25:BA:1432:C:O2	25:BA:1432:C:H2'	2.11	0.51
25:BA:1492:G:H2'	25:BA:1493:C:C5	2.46	0.51
25:BA:1529:A:H8	25:BA:1530:G:N7	2.08	0.51
25:BA:1419:A:C6	25:BA:1578:U:C2	2.99	0.51
25:BA:1613:G:N1	25:BA:1619:G:C5	2.79	0.51
25:BA:1690:A:C2	25:BA:1691:C:H1'	2.46	0.51
25:BA:1754:C:O4'	41:BS:104:ASN:OD1	2.29	0.51
25:BA:1773:A:N7	25:BA:1774:C:C2	2.78	0.51
25:BA:1856:G:N7	25:BA:1857:G:N3	2.59	0.51
25:BA:1859:A:C8	25:BA:1860:G:C8	2.99	0.51
25:BA:1890:A:H3'	25:BA:1891:G:C8	2.43	0.51
25:BA:2003:G:C2	25:BA:2004:G:C4	2.99	0.51
25:BA:2098:U:H2'	25:BA:2099:U:C5	2.42	0.51
25:BA:2124:G:H2'	27:BC:217:THR:HG23	1.93	0.51
25:BA:2177:C:N3	25:BA:2178:C:C5	2.79	0.51
25:BA:2226:C:C2	25:BA:2227:A:C4	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2230:G:N3	25:BA:2231:C:C6	2.80	0.51
25:BA:2256:G:N2	25:BA:2275:C:H41	2.08	0.51
25:BA:2286:A:C4'	25:BA:2287:A:H1'	2.38	0.51
25:BA:2322:A:N3	25:BA:2322:A:C2'	2.72	0.51
25:BA:2474:C:H6	25:BA:2474:C:O5'	1.94	0.51
25:BA:2466:C:C4	25:BA:2485:G:C6	2.99	0.51
25:BA:2563:U:H2'	25:BA:2565:A:OP2	2.10	0.51
25:BA:2586:C:N3	25:BA:2587:A:N6	2.58	0.51
25:BA:2606:C:C6	25:BA:2606:C:C3'	2.94	0.51
25:BA:2618:G:H21	25:BA:2619:C:H1'	1.75	0.51
25:BA:2653:U:H3	25:BA:2654:A:H62	1.49	0.51
25:BA:2682:U:O2'	29:BE:11:MET:CE	2.59	0.51
25:BA:270(M):U:O3'	25:BA:270(N):G:C4'	2.58	0.51
25:BA:2776:A:N7	25:BA:2781:A:C6	2.78	0.51
25:BA:30:G:H5'	25:BA:1215:G:H4'	1.92	0.51
25:BA:312:G:H5''	25:BA:313:C:OP2	2.11	0.51
25:BA:338:G:N7	46:BX:4:LYS:HG2	2.26	0.51
25:BA:371:A:H5''	25:BA:423:A:C8	2.33	0.51
25:BA:379:G:C2	25:BA:396:G:C4	2.98	0.51
25:BA:388:G:C1'	25:BA:390:A:H62	2.22	0.51
25:BA:468:G:N7	25:BA:469:G:C4	2.78	0.51
25:BA:5:A:O2'	35:BM:134:ARG:NH1	2.44	0.51
25:BA:635:C:H2'	25:BA:636:G:H5'	1.91	0.51
25:BA:669:G:OP1	30:BF:54:ARG:NH1	2.43	0.51
25:BA:744:G:C2	25:BA:754:C:C2	2.99	0.51
25:BA:834:C:O2'	25:BA:835:A:H5'	2.11	0.51
25:BA:972:G:O6	25:BA:973:A:N6	2.34	0.51
26:BB:75:G:H21	47:BY:85:HIS:CG	2.29	0.51
27:BC:211:SER:CB	27:BC:213:TYR:OH	2.59	0.51
28:BD:134:ARG:CG	28:BD:187:GLY:O	2.59	0.51
28:BD:167:GLY:O	28:BD:173:VAL:HG12	2.11	0.51
25:BA:1788:C:O2	28:BD:222:ARG:NH2	2.44	0.51
29:BE:13:ARG:NE	29:BE:21:VAL:N	2.59	0.51
29:BE:13:ARG:HE	29:BE:21:VAL:N	2.09	0.51
29:BE:5:LEU:HD22	29:BE:196:VAL:C	2.32	0.51
25:BA:616:A:C8	30:BF:176:LEU:HD11	2.45	0.51
25:BA:1255:U:N3	30:BF:72:ARG:O	2.31	0.51
30:BF:80:ALA:HB1	30:BF:82:ILE:CD1	2.41	0.51
31:BG:20:ILE:CG2	31:BG:21:ARG:N	2.73	0.51
31:BG:61:ALA:HA	31:BG:66:GLN:H	1.76	0.51
32:BH:11:VAL:N	32:BH:12:PRO:HD3	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2748:A:C2	32:BH:67:LEU:HD21	2.42	0.51
37:BO:107:LYS:O	37:BO:109:GLY:N	2.44	0.51
37:BO:72:PRO:HD2	37:BO:111:ARG:HE	1.76	0.51
39:BQ:77:ARG:CB	39:BQ:77:ARG:NH1	2.71	0.51
41:BS:40:THR:CG2	41:BS:40:THR:O	2.54	0.51
36:BN:75:SER:O	41:BS:76:PHE:CD1	2.64	0.51
42:BT:28:ARG:O	42:BT:35:ALA:HA	2.11	0.51
43:BU:35:LEU:HD23	43:BU:36:PRO:N	2.26	0.51
43:BU:91:TYR:O	43:BU:92:THR:CB	2.55	0.51
25:BA:1266:G:OP2	44:BV:15:ARG:NH2	2.44	0.51
44:BV:21:VAL:HG22	44:BV:25:ARG:HG3	1.92	0.51
46:BX:107:ASP:C	46:BX:109:GLU:H	2.15	0.51
46:BX:1:MET:HG2	46:BX:33:LYS:HD2	1.93	0.51
47:BY:106:GLY:O	47:BY:107:THR:C	2.48	0.51
47:BY:41:LEU:O	47:BY:45:ASP:CG	2.50	0.51
33:BK:66:GLU:HG3	33:BK:69:LYS:CE	2.42	0.51
1:AA:1442:G:O5'	1:AA:1442:G:N3	2.44	0.51
26:BB:116:G:O5'	26:BB:116:G:H8	1.94	0.51
1:AA:750:G:H1'	18:AR:23:GLY:N	2.25	0.51
1:AA:116:A:N6	1:AA:117:G:C6	2.79	0.50
1:AA:117:G:H8	1:AA:117:G:O5'	1.95	0.50
1:AA:1224:G:H2'	1:AA:1225:A:OP1	2.11	0.50
1:AA:1225:A:P	16:AP:103:THR:OG1	2.69	0.50
1:AA:1308:U:H5''	16:AP:110:ARG:HH22	1.76	0.50
1:AA:1424:C:C2	1:AA:1425:U:C6	2.99	0.50
1:AA:1534:A:C5	1:AA:1535:C:C5	2.99	0.50
1:AA:174:C:C2	1:AA:175:C:C5	2.99	0.50
1:AA:174:C:C5	1:AA:175:C:H5	2.28	0.50
1:AA:189:U:C4	20:AT:72:ARG:NH2	2.70	0.50
1:AA:243:A:H62	1:AA:281:G:H2'	1.76	0.50
1:AA:293:G:OP2	1:AA:293:G:C8	2.64	0.50
1:AA:410:G:H1'	1:AA:432:A:N6	2.26	0.50
1:AA:412:A:O2'	1:AA:413:G:C8	2.62	0.50
1:AA:476:G:O2'	1:AA:477:G:C5'	2.54	0.50
1:AA:50:A:C5'	1:AA:51:A:H5'	2.39	0.50
1:AA:573:A:C2	1:AA:574:A:C5	2.98	0.50
1:AA:648:A:C2	1:AA:649:G:C8	2.99	0.50
1:AA:658:G:C2'	1:AA:659:U:H5'	2.41	0.50
1:AA:722:A:C2	1:AA:724:G:N7	2.80	0.50
1:AA:789:U:H6	1:AA:790:A:H5''	1.76	0.50
1:AA:986:A:H4'	22:AV:55:LYS:CG	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:3:C:C2'	2:AC:4:G:O5'	2.58	0.50
3:AD:74:C:OP2	51:B3:22:ILE:CD1	2.57	0.50
5:AE:21:ARG:H	5:AE:21:ARG:HE	1.58	0.50
6:AF:150:LYS:HA	6:AF:169:ALA:HB2	1.91	0.50
6:AF:39:ILE:HG22	6:AF:40:ARG:N	2.26	0.50
6:AF:59:ARG:CD	6:AF:61:ALA:O	2.60	0.50
1:AA:543:C:OP2	7:AG:10:ARG:NH2	2.42	0.50
8:AH:81:GLU:H	8:AH:81:GLU:CD	2.12	0.50
9:AI:100:ASN:OD1	21:AU:26:LEU:O	2.29	0.50
9:AI:75:LEU:HD13	9:AI:75:LEU:C	2.31	0.50
10:AJ:80:VAL:HG12	10:AJ:81:GLY:H	1.76	0.50
13:AM:55:LYS:O	13:AM:56:HIS:CG	2.64	0.50
14:AN:28:THR:O	14:AN:44:SER:HA	2.11	0.50
14:AN:43:SER:CB	14:AN:47:VAL:HG11	2.41	0.50
14:AN:41:THR:HB	14:AN:71:LYS:HD3	1.93	0.50
15:AO:124:LYS:HG2	15:AO:125:PRO:HD2	1.92	0.50
15:AO:46:LYS:HB3	15:AO:48:PRO:HD3	1.93	0.50
1:AA:529:G:O6	15:AO:49:ASN:CG	2.49	0.50
1:AA:1226:C:C5'	16:AP:103:THR:O	2.51	0.50
17:AQ:13:THR:C	17:AQ:15:LYS:N	2.64	0.50
19:AS:30:GLY:C	19:AS:31:LYS:O	2.39	0.50
19:AS:52:ASP:C	19:AS:52:ASP:OD2	2.49	0.50
19:AS:71:ARG:HG2	19:AS:72:ARG:N	2.26	0.50
22:AV:80:TYR:CD1	22:AV:81:ARG:N	2.80	0.50
23:AW:29:LYS:O	23:AW:33:ILE:HG13	2.11	0.50
50:B2:18:ASP:O	50:B2:21:ALA:HB3	2.11	0.50
51:B3:58:ARG:O	51:B3:62:ARG:NE	2.45	0.50
52:B4:51:TYR:HB3	52:B4:55:ARG:CA	2.29	0.50
25:BA:684:G:OP1	54:B6:16:HIS:CE1	2.64	0.50
54:B6:31:LEU:C	54:B6:35:ARG:HD3	2.32	0.50
25:BA:1044:G:C2'	25:BA:1111:A:C2	2.94	0.50
25:BA:564:C:O2'	25:BA:1252:G:C6	2.55	0.50
25:BA:1275:A:C2	39:BQ:12:ARG:NH1	2.79	0.50
25:BA:1342:A:C6	25:BA:1397:U:C6	2.99	0.50
25:BA:1525:G:C2'	25:BA:1526:G:O5'	2.59	0.50
25:BA:1530:G:H2'	25:BA:1531:C:N1	2.25	0.50
25:BA:1567:A:OP1	28:BD:59:LYS:CD	2.58	0.50
25:BA:173:G:N2	25:BA:174:C:C4	2.79	0.50
25:BA:1818:U:H6	25:BA:1818:U:O5'	1.95	0.50
25:BA:1857:G:H2'	25:BA:1858:G:C4	2.46	0.50
25:BA:192:C:C6	25:BA:193:U:C6	2.98	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2189:U:O2'	25:BA:2190:G:C5'	2.59	0.50
25:BA:2376:A:N3	25:BA:2377:A:H1'	2.26	0.50
25:BA:250:G:N1	25:BA:251:A:C6	2.80	0.50
25:BA:2531:A:HO2'	25:BA:2532:G:P	2.33	0.50
25:BA:261:G:C4'	25:BA:608:A:C2	2.81	0.50
25:BA:2049:G:N2	25:BA:2620:C:C2	2.79	0.50
25:BA:2044:C:N1	25:BA:2625:G:N2	2.60	0.50
25:BA:2708:G:H1'	39:BQ:71:GLN:OE1	2.10	0.50
25:BA:2714:G:C6	25:BA:2715:C:C4	2.99	0.50
25:BA:2738:A:H2	25:BA:2739:U:H1'	1.76	0.50
25:BA:2801:A:H3'	25:BA:2801:A:C8	2.46	0.50
25:BA:282:A:OP1	25:BA:283:A:OP2	2.28	0.50
25:BA:290:G:H2'	25:BA:291:C:O4'	2.11	0.50
25:BA:301:G:C5	25:BA:317:G:N1	2.79	0.50
25:BA:457:A:O2'	25:BA:459:U:C2	2.57	0.50
25:BA:500:G:H2'	25:BA:501:A:H3'	1.94	0.50
25:BA:556:G:C6	25:BA:557:U:O4	2.65	0.50
25:BA:588:U:H2'	25:BA:589:C:O5'	2.11	0.50
25:BA:660:G:H5''	30:BF:99:TYR:CZ	2.45	0.50
25:BA:685:A:C4	25:BA:774:A:N6	2.79	0.50
25:BA:696:G:C4	25:BA:697:C:C5	2.99	0.50
25:BA:898:C:H5''	25:BA:898:C:H6	1.76	0.50
25:BA:7:G:C2	25:BA:8:A:C4	2.99	0.50
25:BA:967:C:O2'	25:BA:968:G:H5'	2.11	0.50
25:BA:972:G:O6	25:BA:973:A:N7	2.44	0.50
26:BB:109:G:N1	26:BB:110:G:N7	2.59	0.50
27:BC:100:ILE:HD11	27:BC:123:VAL:CG2	2.28	0.50
27:BC:10:LEU:HA	27:BC:13:LYS:CD	2.42	0.50
27:BC:177:LYS:HB2	27:BC:180:PHE:CB	2.38	0.50
27:BC:192:PHE:HE1	27:BC:196:LEU:CD1	2.23	0.50
27:BC:10:LEU:HD11	27:BC:220:PRO:CG	2.40	0.50
28:BD:247:ALA:C	28:BD:248:SER:O	2.46	0.50
25:BA:2227:A:H1'	28:BD:262:ARG:HH11	1.75	0.50
28:BD:65:ILE:HB	28:BD:67:PHE:CE2	2.46	0.50
29:BE:127:ASP:OD1	29:BE:135:HIS:HB2	2.11	0.50
29:BE:173:VAL:CG2	29:BE:174:ASP:H	2.24	0.50
29:BE:51:PHE:C	29:BE:52:LEU:HD23	2.31	0.50
32:BH:97:ARG:HA	32:BH:125:VAL:CG1	2.41	0.50
35:BM:7:LYS:HE2	35:BM:39:ARG:NH1	2.26	0.50
36:BN:33:ALA:HB2	36:BN:39:ILE:CG2	2.40	0.50
38:BP:68:ILE:HG23	38:BP:69:PHE:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:16:LYS:NZ	42:BT:16:LYS:HB2	2.26	0.50
42:BT:92:ARG:HG2	42:BT:93:LYS:HZ1	1.71	0.50
25:BA:1198:U:H4'	42:BT:9:VAL:HG22	1.93	0.50
43:BU:13:ARG:C	43:BU:14:VAL:HG23	2.32	0.50
43:BU:43:GLU:N	43:BU:44:LYS:NZ	2.56	0.50
42:BT:112:ARG:HH22	43:BU:50:PRO:HD2	1.71	0.50
43:BU:6:LYS:HZ3	43:BU:10:LYS:CD	2.22	0.50
45:BW:21:PHE:HZ	45:BW:27:THR:HG1	1.58	0.50
45:BW:63:LYS:HE3	45:BW:72:LYS:CE	2.40	0.50
47:BY:23:LYS:HE3	47:BY:38:TYR:HB3	1.93	0.50
47:BY:6:LYS:CD	47:BY:35:ARG:HD3	2.41	0.50
47:BY:27:VAL:HG23	47:BY:85:HIS:NE2	2.26	0.50
25:BA:2354:G:O5'	48:BZ:35:ASN:ND2	2.44	0.50
33:BK:122:GLU:O	33:BK:123:LEU:HB3	2.11	0.50
1:AA:848:C:H2'	1:AA:849:C:C6	2.45	0.50
1:AA:929:G:C6	1:AA:930:C:C4	2.99	0.50
1:AA:1185:G:C2'	1:AA:1186:G:H5'	2.40	0.50
1:AA:1209:C:O2'	1:AA:1210:C:H5'	2.11	0.50
1:AA:1213:A:C4	1:AA:1215:G:C5	2.99	0.50
1:AA:1230:C:O2	16:AP:126:LYS:HD3	2.11	0.50
1:AA:1303:C:C2'	1:AA:1303:C:O2	2.56	0.50
1:AA:1306:A:C6	1:AA:1307:U:C2	2.98	0.50
1:AA:1316:G:H2'	1:AA:1317:C:O5'	2.11	0.50
1:AA:978:A:N1	1:AA:1318:A:C6	2.79	0.50
1:AA:1316:G:H5'	1:AA:1360:A:C5	2.46	0.50
1:AA:1486:G:N1	1:AA:1487:G:C2	2.79	0.50
1:AA:926:G:C2	1:AA:1505:G:N3	2.79	0.50
1:AA:440:A:C8	1:AA:442:C:C5	2.99	0.50
1:AA:468:A:P	19:AS:75:ARG:HH12	2.33	0.50
1:AA:448:A:C5	1:AA:487:A:C2	2.99	0.50
1:AA:537:G:O2'	1:AA:538:G:H5'	2.12	0.50
1:AA:557:G:C6	1:AA:558:G:N1	2.79	0.50
1:AA:724:G:N2	1:AA:725:G:N9	2.59	0.50
1:AA:820:U:C2'	1:AA:820:U:O2	2.54	0.50
1:AA:872:A:O2'	1:AA:873:A:C8	2.65	0.50
2:AC:33:U:C6	2:AC:35:A:OP2	2.64	0.50
2:AC:5:G:O2'	2:AC:6:G:C5'	2.58	0.50
3:AD:38:A:H2'	3:AD:39:U:H5'	1.92	0.50
3:AD:58:A:N3	3:AD:61:C:C6	2.79	0.50
5:AE:97:TRP:NE1	5:AE:101:MET:SD	2.73	0.50
5:AE:137:ARG:O	5:AE:141:GLU:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:222:ILE:O	5:AE:226:ARG:CB	2.60	0.50
5:AE:59:GLU:CA	5:AE:221:LEU:HD11	2.42	0.50
6:AF:76:VAL:O	6:AF:83:ARG:CG	2.58	0.50
1:AA:407:G:HO2'	7:AG:116:GLN:HG2	1.75	0.50
7:AG:165:MET:CE	7:AG:166:LYS:HA	2.41	0.50
7:AG:173:TRP:CA	7:AG:186:LEU:CD2	2.84	0.50
7:AG:25:ARG:HD3	7:AG:25:ARG:O	2.11	0.50
8:AH:102:ALA:HB1	8:AH:106:PRO:HG2	1.94	0.50
10:AJ:89:MET:HG3	10:AJ:156:TRP:CD1	2.46	0.50
10:AJ:94:ARG:CG	10:AJ:94:ARG:HH11	2.16	0.50
12:AL:96:LEU:HG	12:AL:101:PHE:CE1	2.44	0.50
15:AO:33:ARG:H	15:AO:85:ILE:CG2	2.24	0.50
16:AP:92:HIS:CE1	16:AP:110:ARG:HH22	2.28	0.50
17:AQ:48:ALA:O	17:AQ:51:GLY:N	2.45	0.50
1:AA:189:U:H3	20:AT:63:ARG:HD2	1.76	0.50
20:AT:95:TYR:O	20:AT:98:LEU:HD23	2.10	0.50
23:AW:29:LYS:O	23:AW:32:ALA:HB3	2.11	0.50
49:B1:28:MET:HB3	49:B1:32:PHE:CE2	2.47	0.50
25:BA:852:G:H5'	50:B2:45:GLY:HA3	1.93	0.50
52:B4:58:LEU:HD13	52:B4:58:LEU:C	2.30	0.50
55:B7:51:ALA:O	55:B7:54:GLU:CD	2.50	0.50
55:B7:58:ILE:CG2	55:B7:61:LEU:HD12	2.41	0.50
25:BA:1019:U:H3'	25:BA:1019:U:C6	2.46	0.50
25:BA:1113:U:H6	25:BA:1113:U:O5'	1.94	0.50
25:BA:1027:A:C6	25:BA:1126:A:C4	2.99	0.50
25:BA:1141:U:O2'	25:BA:1142:U:OP2	2.23	0.50
25:BA:1199:U:C2	25:BA:1200:C:C6	2.98	0.50
25:BA:1210:A:H5''	25:BA:1211:U:H3'	1.93	0.50
25:BA:1291:C:HO2'	25:BA:1292:U:H5'	1.75	0.50
25:BA:1366:A:H2'	25:BA:1367:A:O5'	2.11	0.50
25:BA:1453:A:H61	39:BQ:63:ARG:NH2	2.09	0.50
25:BA:1691:C:O2'	25:BA:1692:U:C5'	2.48	0.50
25:BA:1701:A:C2'	25:BA:1702:G:H5'	2.41	0.50
25:BA:182:A:C4	25:BA:183:C:C5	2.99	0.50
25:BA:1933:G:C4	25:BA:1934:C:C6	3.00	0.50
25:BA:2218:G:C4	25:BA:2219:G:C8	2.99	0.50
25:BA:221:A:O2'	25:BA:222:A:OP2	2.29	0.50
25:BA:2420:C:H2'	25:BA:2421:G:H8	1.76	0.50
25:BA:2451:A:N7	25:BA:2452:C:C5	2.79	0.50
25:BA:2491:U:C4	25:BA:2492:U:H3'	2.46	0.50
25:BA:2552:U:H3'	25:BA:2554:U:OP2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2630:G:C5	25:BA:2894:G:C6	2.99	0.50
25:BA:2657:A:C5	25:BA:2665:A:C6	2.99	0.50
25:BA:270(C):C:P	25:BA:365:C:C2'	2.99	0.50
25:BA:2739:U:H5	25:BA:2763:G:C5	2.30	0.50
25:BA:2810:A:H2'	25:BA:2811:G:O4'	2.11	0.50
25:BA:2812:G:C4	25:BA:2813:A:C8	2.99	0.50
25:BA:2851:A:C2'	25:BA:2852:G:O5'	2.59	0.50
25:BA:2790:A:C1'	25:BA:2893:G:N2	2.74	0.50
25:BA:298:G:H1'	25:BA:341:G:H22	1.75	0.50
25:BA:325:G:O2'	25:BA:326:G:H5'	2.11	0.50
25:BA:364:C:C6	25:BA:364:C:P	3.04	0.50
25:BA:38:A:O2'	25:BA:39:C:C5'	2.59	0.50
25:BA:534:U:H4'	42:BT:49:HIS:CE1	2.46	0.50
25:BA:733:G:H8	25:BA:733:G:C5'	2.25	0.50
25:BA:739:G:O3'	25:BA:1784:A:H2	1.90	0.50
25:BA:752:A:N6	25:BA:1781:C:O2'	2.44	0.50
25:BA:779:U:O2'	25:BA:780:G:H5'	2.11	0.50
25:BA:854:G:C2	25:BA:855:G:C4	2.99	0.50
25:BA:878:A:H2'	25:BA:879:G:C5'	2.40	0.50
25:BA:974:G:H5''	25:BA:974(A):C:OP2	2.11	0.50
25:BA:979:G:C5	25:BA:981:A:OP2	2.64	0.50
26:BB:17:C:C4	26:BB:18:G:C5	2.99	0.50
26:BB:25:A:H2'	26:BB:26:A:O4'	2.10	0.50
26:BB:58:A:N6	26:BB:59:A:C6	2.78	0.50
27:BC:103:ILE:HD13	27:BC:110:PHE:CZ	2.46	0.50
27:BC:123:VAL:HG11	27:BC:138:PRO:HD2	1.88	0.50
3:AD:63:G:H5'	27:BC:53:ARG:CZ	2.40	0.50
28:BD:131:LEU:HG	28:BD:135:PHE:CD2	2.45	0.50
28:BD:23:GLU:O	28:BD:204:ILE:CD1	2.56	0.50
28:BD:8:PRO:CG	28:BD:26:LYS:N	2.72	0.50
28:BD:82:ILE:HA	28:BD:92:ILE:O	2.12	0.50
29:BE:119:ARG:NE	29:BE:155:LYS:HB3	2.23	0.50
29:BE:197:ILE:CD1	29:BE:199:ARG:HH21	2.25	0.50
30:BF:139:PHE:O	30:BF:139:PHE:CD1	2.63	0.50
30:BF:158:THR:HG1	30:BF:195:ASP:H	1.59	0.50
30:BF:43:LYS:HG3	30:BF:98:SER:CA	2.39	0.50
30:BF:61:GLY:HA3	30:BF:78:ILE:HG22	1.93	0.50
30:BF:74:ARG:HE	30:BF:75:HIS:N	2.10	0.50
30:BF:52:LYS:HD2	30:BF:88:VAL:HG23	1.93	0.50
31:BG:91:ARG:O	31:BG:91:ARG:HD2	2.10	0.50
32:BH:37:VAL:CG2	32:BH:37:VAL:O	2.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BK:22:LYS:HB3	33:BK:23:PRO:CD	2.40	0.50
37:BO:113:LYS:CB	37:BO:129:ALA:HB1	2.41	0.50
25:BA:662:G:C4'	37:BO:18:ARG:H	2.18	0.50
37:BO:55:ARG:O	37:BO:56:SER:CB	2.59	0.50
38:BP:26:TYR:CD1	38:BP:27:VAL:N	2.79	0.50
38:BP:42:ILE:H	38:BP:94:VAL:HG23	1.76	0.50
38:BP:6:ARG:HG2	38:BP:70:PRO:CB	2.41	0.50
38:BP:79:LEU:O	38:BP:80:GLU:CB	2.59	0.50
25:BA:1651:G:C5'	39:BQ:39:PRO:HG2	2.39	0.50
39:BQ:87:TYR:N	39:BQ:87:TYR:HD2	2.09	0.50
26:BB:7:G:C4'	40:BR:29:PHE:HZ	2.20	0.50
41:BS:7:ILE:O	41:BS:9:LEU:N	2.43	0.50
41:BS:95:ARG:CG	41:BS:96:ARG:N	2.74	0.50
42:BT:21:ALA:CA	42:BT:24:TYR:HE1	2.22	0.50
42:BT:93:LYS:HB2	43:BU:10:LYS:HZ2	1.74	0.50
43:BU:28:GLU:O	43:BU:30:GLY:O	2.29	0.50
45:BW:71:GLY:O	45:BW:72:LYS:HG3	2.11	0.50
46:BX:42:VAL:HG23	46:BX:61:ILE:HG12	1.93	0.50
46:BX:64:GLU:OE2	46:BX:65:ALA:N	2.44	0.50
48:BZ:19:LYS:NZ	48:BZ:41:ARG:CZ	2.74	0.50
48:BZ:51:VAL:HG21	48:BZ:79:VAL:C	2.32	0.50
34:BL:72:PRO:O	34:BL:111:LYS:NZ	2.34	0.50
1:AA:1025:U:O2'	1:AA:1026:G:C8	2.55	0.50
15:AO:15:ARG:HH11	15:AO:15:ARG:HG2	1.76	0.50
15:AO:19:ARG:O	15:AO:20:LYS:C	2.49	0.50
1:AA:108:G:C5'	1:AA:109:A:H5''	2.40	0.50
1:AA:1068:G:O6	1:AA:1108:G:C2	2.64	0.50
1:AA:1319:A:N1	1:AA:1361:G:C2	2.79	0.50
1:AA:1339:A:H2	2:AC:31:G:H1'	1.76	0.50
1:AA:1395:C:H6	1:AA:1395:C:H5'	1.76	0.50
1:AA:1493:A:O4'	1:AA:1493:A:OP2	2.28	0.50
1:AA:1515:C:C2	1:AA:1516:G:C8	2.99	0.50
1:AA:148:G:N1	1:AA:175:C:N4	2.59	0.50
1:AA:251:G:C4'	1:AA:252:U:OP1	2.59	0.50
1:AA:276:G:H2'	1:AA:277:C:C5'	2.40	0.50
1:AA:329:A:C6	1:AA:332:G:C2	2.99	0.50
1:AA:483:C:OP2	1:AA:484:G:H2'	2.10	0.50
1:AA:551:U:C2	1:AA:552:U:C5	3.00	0.50
1:AA:582:U:H5''	18:AR:68:ARG:NH2	2.23	0.50
1:AA:596:C:C2'	1:AA:596:C:O2	2.55	0.50
1:AA:684:A:C6	1:AA:685:G:C6	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:697:U:H3'	1:AA:698:G:C8	2.47	0.50
1:AA:760:G:H2'	20:AT:103:GLY:C	2.32	0.50
1:AA:969:A:C6	1:AA:970:C:C4	2.99	0.50
1:AA:971:G:N7	1:AA:1365:G:H5'	2.25	0.50
2:AC:21:A:N1	2:AC:46:G:N2	2.53	0.50
2:AC:63:G:H2'	2:AC:64:G:H8	1.77	0.50
3:AD:19:G:N3	3:AD:57:G:H1'	2.26	0.50
3:AD:76:A:H2	25:BA:2432:A:P	2.35	0.50
5:AE:91:PRO:HG2	5:AE:155:LEU:CB	2.41	0.50
6:AF:172:ARG:NH2	6:AF:203:PHE:CE2	2.79	0.50
6:AF:22:TRP:HZ3	6:AF:32:LEU:HD12	1.77	0.50
6:AF:97:LYS:O	6:AF:99:VAL:HG12	2.11	0.50
7:AG:61:LYS:HA	7:AG:203:VAL:CG2	2.41	0.50
9:AI:98:LEU:HD13	9:AI:101:ALA:CB	2.41	0.50
1:AA:737:A:OP1	9:AI:91:VAL:HG13	2.10	0.50
10:AJ:118:VAL:CG1	10:AJ:122:HIS:HE2	2.24	0.50
10:AJ:36:LYS:HA	10:AJ:36:LYS:NZ	2.26	0.50
10:AJ:45:ASP:CA	10:AJ:48:LYS:HZ3	2.21	0.50
10:AJ:88:PRO:CG	10:AJ:152:ALA:HB2	2.40	0.50
11:AK:17:THR:HB	11:AK:18:ARG:CZ	2.42	0.50
11:AK:25:ASP:HA	11:AK:59:LEU:O	2.11	0.50
12:AL:28:VAL:HG21	12:AL:32:ASP:O	2.11	0.50
13:AM:31:GLY:HA2	13:AM:81:THR:OG1	2.11	0.50
15:AO:33:ARG:H	15:AO:85:ILE:HG23	1.75	0.50
15:AO:60:LEU:HD21	15:AO:64:TYR:CD2	2.46	0.50
17:AQ:53:LEU:O	17:AQ:56:VAL:CG2	2.60	0.50
13:AM:65:LEU:HB2	17:AQ:56:VAL:HG12	1.92	0.50
21:AU:30:ASP:CG	21:AU:32:ARG:H	2.14	0.50
22:AV:45:VAL:HA	22:AV:67:VAL:HG21	1.92	0.50
23:AW:40:ALA:O	23:AW:41:ILE:C	2.49	0.50
23:AW:56:MET:SD	23:AW:84:LEU:CD1	2.97	0.50
49:B1:20:VAL:HG13	49:B1:21:ARG:HD3	1.93	0.50
49:B1:33:GLN:O	49:B1:36:ILE:HG22	2.11	0.50
49:B1:63:ARG:CB	49:B1:63:ARG:CZ	2.90	0.50
50:B2:3:ARG:CB	50:B2:3:ARG:NH1	2.51	0.50
53:B5:19:ARG:O	53:B5:19:ARG:HG2	2.11	0.50
25:BA:1009:A:N1	25:BA:1010:A:N1	2.60	0.50
25:BA:1157:G:O2'	50:B2:10:LYS:NZ	2.43	0.50
25:BA:974:G:N3	25:BA:1186:G:N7	2.60	0.50
25:BA:974:G:O4'	25:BA:1187:G:C1'	2.59	0.50
25:BA:1252:G:C8	25:BA:1253:A:C4	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1300:U:O2	25:BA:1626:G:H2'	2.12	0.50
25:BA:1346:G:C4	25:BA:1601:G:N2	2.79	0.50
25:BA:1340:U:O2'	25:BA:1394:U:O2'	2.22	0.50
25:BA:1407:C:O2'	25:BA:1408:C:C5'	2.59	0.50
25:BA:1438:U:H4'	25:BA:1517:G:OP1	2.11	0.50
25:BA:1471:A:H1'	25:BA:1521:G:H22	1.75	0.50
25:BA:1486:A:H2'	25:BA:1487:G:H8	1.76	0.50
25:BA:147:U:N3	25:BA:148:C:C4	2.80	0.50
25:BA:147:U:N3	25:BA:148:C:N4	2.58	0.50
25:BA:1408:C:C2	25:BA:1595:G:C2	2.99	0.50
25:BA:1693:U:C4'	25:BA:1694:C:OP2	2.59	0.50
25:BA:1692:U:O2'	25:BA:1693:U:O5'	2.21	0.50
25:BA:1748:G:C2	25:BA:1749:A:C4	2.99	0.50
25:BA:1774:C:N4	28:BD:208:LYS:HD2	2.27	0.50
25:BA:1820:U:H2'	28:BD:202:LYS:CG	2.34	0.50
25:BA:1859:A:H3'	25:BA:1859:A:H8	1.77	0.50
25:BA:1998:G:O2'	25:BA:1999:C:H5'	2.10	0.50
25:BA:200:U:H5	25:BA:201:C:C2	2.29	0.50
25:BA:2020:A:P	42:BT:27:LEU:HD13	2.52	0.50
25:BA:2057:A:C4	25:BA:2058:A:N7	2.79	0.50
25:BA:2069:G:C6	25:BA:2070:G:N7	2.79	0.50
25:BA:2124:G:N3	27:BC:217:THR:HG23	2.26	0.50
25:BA:2208:U:HO2'	25:BA:2217:G:N2	2.07	0.50
25:BA:2246:G:C2'	25:BA:2247:A:H8	2.23	0.50
25:BA:2460:U:H2'	25:BA:2492:U:O4	2.11	0.50
25:BA:2492:U:O2'	25:BA:2493:U:P	2.68	0.50
25:BA:2553:G:C2	25:BA:2554:U:O2	2.64	0.50
25:BA:1782:C:C4	25:BA:2587:A:N6	2.79	0.50
25:BA:2597:G:C2	25:BA:2598:A:N3	2.80	0.50
25:BA:2596:U:O4	25:BA:2597:G:C6	2.65	0.50
25:BA:2654:A:O2'	25:BA:2655:G:H4'	2.11	0.50
25:BA:2703:C:H2'	25:BA:2704:C:O5'	2.11	0.50
25:BA:279:C:H2'	25:BA:280:C:C5	2.46	0.50
25:BA:2835:A:O2'	25:BA:2836:U:C5	2.64	0.50
25:BA:350:U:OP2	25:BA:350:U:C6	2.64	0.50
25:BA:273(E):U:N1	25:BA:363(B):G:N2	2.59	0.50
25:BA:378:C:O2'	25:BA:379:G:C5'	2.59	0.50
25:BA:28:A:H1'	25:BA:513:A:C6	2.45	0.50
25:BA:545:G:C1'	25:BA:549:G:H22	2.18	0.50
25:BA:563:G:H2'	25:BA:563:G:N3	2.25	0.50
25:BA:632:A:C2	25:BA:633:A:C2	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:685:A:H5'	25:BA:687:C:N4	2.26	0.50
25:BA:707:G:H2'	25:BA:708:C:H6	1.70	0.50
25:BA:729:G:H2'	25:BA:730:C:O4'	2.11	0.50
25:BA:899:A:N1	25:BA:900:A:C5	2.80	0.50
25:BA:910:A:H62	25:BA:911:A:N6	2.08	0.50
25:BA:914:C:C3'	25:BA:914:C:H6	2.19	0.50
25:BA:954:G:O3'	38:BP:17:LEU:HD23	2.12	0.50
26:BB:83:G:C2	26:BB:84:C:C6	2.99	0.50
27:BC:113:VAL:HB	27:BC:138:PRO:HD3	1.93	0.50
27:BC:171:ILE:CD1	27:BC:196:LEU:HD11	2.42	0.50
27:BC:20:TYR:CE1	27:BC:222:VAL:HG13	2.46	0.50
27:BC:39:GLU:HB3	27:BC:178:ALA:CB	2.41	0.50
28:BD:138:VAL:HG22	28:BD:165:ILE:HG22	1.92	0.50
28:BD:147:LEU:N	28:BD:154:LYS:CG	2.72	0.50
28:BD:156:ALA:O	28:BD:157:ARG:C	2.50	0.50
28:BD:186:HIS:HB2	28:BD:188:GLU:OE2	2.12	0.50
28:BD:212:SER:O	28:BD:215:LEU:N	2.45	0.50
28:BD:262:ARG:O	28:BD:263:ARG:O	2.28	0.50
28:BD:265:PRO:C	28:BD:267:SER:N	2.65	0.50
28:BD:82:ILE:CG2	28:BD:83:GLU:N	2.74	0.50
29:BE:116:VAL:HG12	29:BE:120:TRP:CD2	2.46	0.50
25:BA:2513:G:OP1	29:BE:120:TRP:HZ3	1.93	0.50
29:BE:42:ASP:OD2	29:BE:42:ASP:N	2.42	0.50
30:BF:181:LEU:HD13	30:BF:181:LEU:N	2.27	0.50
30:BF:197:ASP:CA	30:BF:200:GLU:OE1	2.57	0.50
30:BF:6:VAL:HA	30:BF:20:LEU:HD11	1.88	0.50
31:BG:170:ARG:O	31:BG:171:ALA:C	2.47	0.50
31:BG:50:ALA:HA	31:BG:70:VAL:CG2	2.41	0.50
32:BH:97:ARG:NE	32:BH:99:VAL:CG2	2.72	0.50
33:BK:31:LEU:CD1	33:BK:36:ALA:HB3	2.41	0.50
33:BK:32:PRO:CD	33:BK:33:ARG:HD3	2.23	0.50
35:BM:72:TYR:CD2	35:BM:73:THR:N	2.73	0.50
36:BN:12:ASP:O	36:BN:94:ARG:NH2	2.44	0.50
36:BN:23:ARG:O	36:BN:40:VAL:HG12	2.11	0.50
36:BN:35:VAL:HG22	36:BN:64:ARG:HG2	1.93	0.50
36:BN:97:ARG:NE	36:BN:97:ARG:C	2.65	0.50
37:BO:23:PRO:HG2	37:BO:30:THR:H	1.76	0.50
37:BO:56:SER:OG	55:B7:27:THR:CG2	2.48	0.50
37:BO:79:ARG:CZ	37:BO:83:VAL:HG12	2.41	0.50
38:BP:46:GLN:OE1	38:BP:125:LEU:HA	2.11	0.50
38:BP:16:ARG:NE	38:BP:73:PRO:HD3	2.23	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:86:ARG:CZ	39:BQ:86:ARG:HB2	2.42	0.50
40:BR:52:SER:O	40:BR:53:SER:O	2.29	0.50
41:BS:17:THR:O	41:BS:19:LEU:N	2.44	0.50
42:BT:44:ASN:ND2	43:BU:77:ALA:HA	2.26	0.50
42:BT:54:LYS:O	42:BT:55:ARG:C	2.50	0.50
42:BT:59:ARG:CZ	42:BT:59:ARG:HB3	2.40	0.50
43:BU:40:LEU:CG	43:BU:51:VAL:HG13	2.42	0.50
45:BW:8:ILE:O	45:BW:9:LEU:HG	2.11	0.50
46:BX:53:PRO:HG2	46:BX:55:TYR:O	2.12	0.50
25:BA:1056:G:N2	25:BA:1102:C:C5	2.79	0.50
34:BL:12:LEU:HD23	34:BL:22:PRO:HB2	1.94	0.50
34:BL:23:VAL:C	34:BL:34:ILE:HG23	2.31	0.50
26:BB:88:C:C3'	26:BB:89:G:H5'	2.38	0.50
26:BB:-1:A:C8	26:BB:0:A:C1'	2.95	0.50
4:A1:19:A:O2'	4:A1:20:A:H5'	2.12	0.50
1:AA:1101:A:HO2'	1:AA:1102:A:H8	1.56	0.50
1:AA:1202:G:C4	17:AQ:42:ILE:HD12	2.46	0.50
1:AA:1206:G:H5'	6:AF:194:GLY:CA	2.38	0.50
1:AA:1212:U:O2'	1:AA:1213:A:H8	1.95	0.50
1:AA:144:G:N1	1:AA:145:G:C5	2.79	0.50
1:AA:163:C:O2	1:AA:164:U:C1'	2.59	0.50
1:AA:277:C:C2	1:AA:278:G:C8	3.00	0.50
1:AA:291:C:O2	1:AA:291:C:H2'	2.11	0.50
1:AA:296:U:C2	1:AA:297:G:N7	2.80	0.50
1:AA:298:A:C4	1:AA:299:G:C8	2.99	0.50
1:AA:438:G:C2'	1:AA:494:U:O4	2.59	0.50
1:AA:594:G:N2	1:AA:596:C:N4	2.58	0.50
1:AA:631:G:H8	1:AA:631:G:O5'	1.94	0.50
1:AA:640:A:C5	1:AA:641:U:C5	3.00	0.50
1:AA:643:C:C5'	11:AK:31:PHE:CD1	2.93	0.50
1:AA:668:G:H2'	1:AA:669:U:H6	1.75	0.50
1:AA:724:G:N2	1:AA:725:G:H1'	2.27	0.50
1:AA:924:C:O2'	1:AA:925:G:H5'	2.10	0.50
1:AA:978:A:N1	1:AA:1318:A:N6	2.59	0.50
1:AA:994:A:N3	1:AA:994:A:H2'	2.26	0.50
2:AC:36:U:C2	2:AC:37:A:C8	2.98	0.50
3:AD:54:U:H2'	3:AD:55:U:H5'	1.93	0.50
5:AE:83:MET:HB2	5:AE:234:PRO:CG	2.41	0.50
5:AE:84:GLU:HG3	5:AE:212:GLN:HE22	1.77	0.50
9:AI:80:ARG:O	9:AI:81:ILE:C	2.49	0.50
10:AJ:65:ALA:CB	10:AJ:124:LEU:HD23	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:134:ALA:O	10:AJ:135:VAL:C	2.50	0.50
10:AJ:38:LEU:HD13	10:AJ:41:ARG:HD3	1.92	0.50
11:AK:112:LEU:HB2	11:AK:132:GLU:O	2.12	0.50
11:AK:88:LYS:O	11:AK:91:ARG:O	2.30	0.50
12:AL:51:ARG:O	12:AL:52:ALA:C	2.50	0.50
14:AN:48:ILE:HG22	14:AN:48:ILE:O	2.11	0.50
14:AN:82:VAL:C	14:AN:83:ILE:HD12	2.32	0.50
15:AO:110:VAL:HG21	15:AO:113:ARG:HG3	1.93	0.50
20:AT:81:ARG:O	20:AT:84:LEU:CD1	2.55	0.50
21:AU:56:THR:O	21:AU:57:GLY:C	2.50	0.50
23:AW:89:ARG:HH21	23:AW:104:LEU:HD23	1.75	0.50
49:B1:16:LEU:HD23	49:B1:59:LEU:HD13	1.93	0.50
49:B1:34:ALA:O	49:B1:35:SER:CB	2.58	0.50
25:BA:397:G:P	51:B3:59:PHE:CZ	3.05	0.50
52:B4:33:CYS:HB2	52:B4:36:CYS:HB2	1.92	0.50
53:B5:9:LEU:HD21	53:B5:29:ASN:HD21	1.76	0.50
55:B7:21:LYS:HB2	55:B7:21:LYS:HZ3	1.75	0.50
55:B7:56:GLU:O	55:B7:57:ARG:C	2.48	0.50
56:B8:7:VAL:HG22	56:B8:34:GLN:HG2	1.93	0.50
25:BA:1324:G:C2'	25:BA:1325:G:OP1	2.59	0.50
25:BA:1326:U:C4	25:BA:1327:C:C6	3.00	0.50
25:BA:1342:A:C6	25:BA:1397:U:C5	2.99	0.50
25:BA:1351:C:C2	25:BA:1352:U:H5	2.29	0.50
25:BA:1341:U:C5	25:BA:1397:U:O2	2.64	0.50
25:BA:1440:G:C6	25:BA:1441:G:N7	2.79	0.50
25:BA:1483:G:N2	25:BA:1507:A:O2'	2.44	0.50
25:BA:1483:G:N9	25:BA:1507:A:C2	2.80	0.50
25:BA:1657:C:P	29:BE:136:ARG:HD2	2.51	0.50
25:BA:1790:C:H4'	28:BD:213:ARG:HH11	1.72	0.50
25:BA:1906:G:C2	25:BA:1907:G:C5	2.99	0.50
25:BA:1934:C:H2'	25:BA:1934:C:O2	2.11	0.50
25:BA:199:A:C6	25:BA:2434:A:C2	2.99	0.50
25:BA:2008:C:O2'	25:BA:2009:G:H5'	2.10	0.50
25:BA:2056:G:O2'	25:BA:2057:A:H5'	2.12	0.50
25:BA:2101:G:C6	25:BA:2102:U:C4	2.99	0.50
25:BA:211:A:H2'	25:BA:212:G:O4'	2.10	0.50
25:BA:218:A:N1	25:BA:235:U:H4'	2.26	0.50
25:BA:2362:G:O2'	25:BA:2363:C:H5'	2.11	0.50
25:BA:2346:A:H2	25:BA:2383:G:C2	2.30	0.50
25:BA:2245:U:H1'	25:BA:2435:A:H3'	1.93	0.50
25:BA:2447:G:O2'	25:BA:2448:A:P	2.67	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2520:C:C6	25:BA:2567:G:H1'	2.46	0.50
25:BA:221:A:C5	25:BA:266:G:N7	2.79	0.50
25:BA:2683:C:C5	25:BA:2684:U:C5	2.99	0.50
25:BA:2695:C:O2'	25:BA:2696:U:H6	1.94	0.50
25:BA:270(L):U:H4'	25:BA:270(M):U:OP1	2.11	0.50
25:BA:2747:G:H2'	25:BA:2748:A:OP2	2.12	0.50
25:BA:527:C:C5	25:BA:2779:U:H2'	2.47	0.50
25:BA:280:C:N4	25:BA:283:A:N6	2.57	0.50
25:BA:281:G:N2	25:BA:283:A:C5'	2.73	0.50
25:BA:2856:C:O5'	25:BA:2856:C:H6	1.94	0.50
25:BA:290:G:H2'	25:BA:291:C:O5'	2.11	0.50
25:BA:383:U:O2	25:BA:385:C:C4	2.64	0.50
25:BA:38:A:H4'	30:BF:94:PRO:HB3	1.92	0.50
25:BA:479:A:O2'	25:BA:480:A:H5'	2.09	0.50
25:BA:481:G:H2'	25:BA:507:A:C6	2.46	0.50
25:BA:526:A:H5''	25:BA:527:C:OP1	2.10	0.50
25:BA:530:G:C6	25:BA:2022:U:OP1	2.65	0.50
25:BA:606:U:OP1	30:BF:102:PRO:HA	2.12	0.50
25:BA:610:C:H2'	25:BA:611:C:C5	2.45	0.50
25:BA:714:U:OP1	25:BA:714:U:H6	1.93	0.50
25:BA:466:A:C2	25:BA:796:C:O4'	2.64	0.50
27:BC:89:ALA:HB1	27:BC:154:ARG:CG	2.40	0.50
27:BC:181:PRO:HB2	27:BC:184:LYS:HG3	1.93	0.50
28:BD:164:GLN:O	28:BD:175:LEU:HD22	2.12	0.50
28:BD:22:SER:HA	28:BD:206:LEU:O	2.12	0.50
29:BE:170:LEU:HD23	29:BE:170:LEU:N	2.26	0.50
29:BE:104:VAL:HG13	29:BE:196:VAL:CG1	2.42	0.50
29:BE:6:GLY:O	29:BE:26:ILE:CG2	2.60	0.50
29:BE:2:LYS:HD2	29:BE:83:ASP:HB3	1.94	0.50
29:BE:28:ALA:O	29:BE:91:VAL:HG23	2.11	0.50
30:BF:74:ARG:NE	30:BF:75:HIS:H	2.09	0.50
32:BH:127:GLU:HB2	32:BH:129:THR:N	2.27	0.50
25:BA:2093:G:OP2	33:BK:25:TYR:CE2	2.65	0.50
33:BK:38:LEU:O	33:BK:43:ASN:OD1	2.30	0.50
25:BA:1007:C:C4'	35:BM:108:PRO:HG3	2.38	0.50
35:BM:16:ILE:N	35:BM:16:ILE:CD1	2.59	0.50
35:BM:88:GLU:O	35:BM:91:LEU:HG	2.11	0.50
36:BN:63:VAL:HG12	36:BN:78:ARG:HD3	1.92	0.50
25:BA:598:G:C1'	37:BO:14:LYS:HG3	2.39	0.50
37:BO:48:PRO:O	37:BO:51:PHE:CB	2.59	0.50
37:BO:91:PHE:HE2	37:BO:96:THR:HG22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:20:LEU:HD21	39:BQ:24:GLN:HG3	1.91	0.50
25:BA:997:G:OP1	42:BT:93:LYS:HE3	2.10	0.50
42:BT:68:ALA:CB	42:BT:99:ALA:HB1	2.41	0.50
43:BU:45:THR:O	43:BU:46:VAL:HB	2.12	0.50
45:BW:36:LYS:HD2	45:BW:54:VAL:CG1	2.42	0.50
45:BW:70:LEU:HD23	45:BW:70:LEU:C	2.31	0.50
47:BY:19:ARG:NE	47:BY:24:LEU:CD2	2.74	0.50
47:BY:40:ASP:O	47:BY:43:GLU:OE1	2.29	0.50
48:BZ:19:LYS:C	48:BZ:20:ARG:HD2	2.32	0.50
25:BA:1062:G:O2'	34:BL:75:SER:HB3	2.12	0.50
34:BL:105:LEU:HD23	34:BL:105:LEU:H	1.75	0.50
34:BL:82:ALA:HB2	34:BL:99:ILE:HD11	1.94	0.50
26:BB:87:G:OP2	26:BB:87:G:C8	2.65	0.50
8:AH:5:ASP:O	8:AH:36:ASP:CA	2.55	0.50
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.59	0.50
1:AA:1118:C:N3	1:AA:1156:G:N2	2.59	0.50
1:AA:1134:G:O6	1:AA:1141:C:N4	2.45	0.50
1:AA:1234:C:H4'	1:AA:1364:U:H1'	1.93	0.50
1:AA:1240:U:C4	10:AJ:30:ILE:HG22	2.46	0.50
1:AA:1241:G:H8	1:AA:1241:G:OP2	1.94	0.50
1:AA:1321:C:N3	22:AV:37:ARG:NH2	2.57	0.50
1:AA:1329:A:C5	1:AA:1330:U:C5	3.00	0.50
1:AA:1401:G:H1	1:AA:1504:G:N2	2.06	0.50
1:AA:1438:G:C4	1:AA:1439:C:C6	2.98	0.50
1:AA:150:C:O5'	1:AA:150:C:H6	1.95	0.50
1:AA:1534:A:H8	1:AA:1534:A:OP1	1.94	0.50
1:AA:230:G:N2	1:AA:231:G:C4	2.78	0.50
1:AA:390:C:O3'	19:AS:28:ARG:NH2	2.38	0.50
1:AA:608:A:C2	1:AA:609:A:H8	2.30	0.50
1:AA:687:A:H4'	1:AA:688:G:O5'	2.12	0.50
1:AA:67:C:H2'	1:AA:68:G:C8	2.46	0.50
1:AA:794:A:C8	1:AA:794:A:H3'	2.47	0.50
1:AA:880:C:P	15:AO:9:GLN:HE21	2.35	0.50
1:AA:886:G:C2'	1:AA:887:G:C5'	2.90	0.50
1:AA:942:G:N2	12:AL:124:GLN:CD	2.65	0.50
2:AC:39:C:O2	2:AC:40:C:C5	2.64	0.50
2:AC:19:G:C4	2:AC:57:A:C2	3.00	0.50
5:AE:115:LEU:HB2	5:AE:145:LEU:CG	2.36	0.50
5:AE:130:ARG:CD	5:AE:131:PRO:HD2	2.27	0.50
5:AE:42:ILE:HD13	5:AE:202:PRO:O	2.10	0.50
5:AE:52:GLU:OE1	5:AE:56:ARG:NH2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:74:LYS:NZ	5:AE:76:GLN:HB2	2.21	0.50
6:AF:132:ARG:O	6:AF:136:GLN:NE2	2.44	0.50
6:AF:172:ARG:CZ	6:AF:172:ARG:HB3	2.41	0.50
7:AG:167:GLY:O	7:AG:168:ARG:O	2.30	0.50
7:AG:58:LEU:C	7:AG:58:LEU:HD22	2.32	0.50
8:AH:121:LYS:NZ	8:AH:121:LYS:CA	2.75	0.50
8:AH:76:ILE:HG21	8:AH:142:LEU:HD22	1.93	0.50
9:AI:98:LEU:CG	21:AU:28:GLU:HG2	2.41	0.50
10:AJ:83:ALA:HB3	10:AJ:85:TYR:HE2	1.74	0.50
12:AL:48:GLU:CB	12:AL:78:LYS:HZ3	2.25	0.50
12:AL:79:LEU:HD13	12:AL:101:PHE:CB	2.42	0.50
12:AL:87:GLN:O	12:AL:90:PRO:HD3	2.11	0.50
13:AM:34:VAL:HG22	13:AM:74:ILE:HD11	1.92	0.50
15:AO:86:ARG:NH1	15:AO:119:LYS:HG3	2.24	0.50
1:AA:501:C:P	15:AO:124:LYS:HD2	2.51	0.50
16:AP:37:THR:OG1	16:AP:56:LEU:HD23	2.12	0.50
16:AP:77:ASN:HA	16:AP:80:ARG:HD3	1.94	0.50
16:AP:74:VAL:HA	16:AP:77:ASN:OD1	2.12	0.50
16:AP:91:ARG:O	16:AP:96:LEU:HD23	2.12	0.50
17:AQ:37:PHE:CD2	17:AQ:37:PHE:N	2.79	0.50
18:AR:3:ILE:HD12	18:AR:3:ILE:H	1.75	0.50
18:AR:5:LYS:HB2	18:AR:5:LYS:NZ	2.27	0.50
18:AR:76:GLU:CG	18:AR:77:ARG:N	2.74	0.50
19:AS:74:LEU:O	19:AS:77:ALA:HB3	2.11	0.50
21:AU:21:LYS:HG3	21:AU:22:VAL:H	1.77	0.50
22:AV:37:ARG:O	22:AV:70:LYS:NZ	2.38	0.50
22:AV:62:ILE:HD11	22:AV:67:VAL:HG13	1.93	0.50
23:AW:40:ALA:HB2	23:AW:55:ILE:CG2	2.42	0.50
23:AW:50:GLU:HA	23:AW:50:GLU:OE1	2.11	0.50
23:AW:81:LYS:O	23:AW:82:SER:C	2.49	0.50
51:B3:59:PHE:HE1	51:B3:60:GLN:NE2	2.08	0.50
52:B4:31:VAL:HG23	52:B4:32:PRO:N	2.25	0.50
25:BA:2884:U:N3	52:B4:52:TYR:HD1	1.98	0.50
52:B4:52:TYR:CD2	52:B4:52:TYR:N	2.79	0.50
53:B5:33:LYS:O	53:B5:35:GLU:CG	2.60	0.50
53:B5:16:CYS:SG	53:B5:41:PRO:HG3	2.51	0.50
54:B6:25:PRO:HA	54:B6:28:ARG:NH2	2.27	0.50
56:B8:29:ASN:HB3	56:B8:32:HIS:CE1	2.46	0.50
25:BA:2742:C:OP1	56:B8:2:LYS:CE	2.60	0.50
25:BA:1036:G:C2	25:BA:1120:G:C6	3.00	0.50
25:BA:109:G:C2	25:BA:110:G:C1'	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1206:G:N2	25:BA:1242:A:C8	2.80	0.50
25:BA:1286:A:C2	25:BA:1329:U:C2	2.99	0.50
25:BA:1295:C:O2'	25:BA:1296:G:H5'	2.11	0.50
25:BA:1326:U:H2'	25:BA:1327:C:O4'	2.12	0.50
25:BA:1338:G:N2	25:BA:1393:A:H2	2.08	0.50
25:BA:1473:G:C2'	25:BA:1474:C:C5'	2.88	0.50
25:BA:1519:G:C3'	25:BA:1520:U:O4'	2.59	0.50
25:BA:1464:C:C4'	25:BA:1528:A:H1'	2.42	0.50
25:BA:1557:C:H5''	25:BA:1558:A:OP2	2.10	0.50
25:BA:1676:A:H62	25:BA:1677:A:N6	2.09	0.50
25:BA:1728:G:H22	25:BA:1733:G:H22	1.58	0.50
25:BA:179:G:C4	25:BA:180:G:C8	3.00	0.50
25:BA:1871:A:N3	25:BA:1872:A:N7	2.59	0.50
25:BA:1785:A:H5''	25:BA:1982:C:C1'	2.42	0.50
25:BA:2101:G:H2'	25:BA:2102:U:C6	2.46	0.50
25:BA:2225:A:C2	33:BK:29:TYR:OH	2.61	0.50
25:BA:2255:G:C1'	48:BZ:7:LEU:CD2	2.90	0.50
25:BA:2396:G:O2'	25:BA:2397:G:C5'	2.60	0.50
25:BA:2422:A:C2	25:BA:2424:C:C5	2.99	0.50
25:BA:2424:C:O2	25:BA:2424:C:C2'	2.53	0.50
25:BA:2468:G:O2'	25:BA:2469:A:H8	1.90	0.50
25:BA:2493:U:C4	25:BA:2494:G:C8	2.97	0.50
25:BA:2604:U:N3	25:BA:2605:U:C5	2.79	0.50
25:BA:268:C:N3	25:BA:269:U:C5	2.80	0.50
25:BA:2707:G:C2'	25:BA:2708:G:O5'	2.59	0.50
25:BA:273(E):U:O4	25:BA:273(F):C:H1'	2.12	0.50
25:BA:2745:C:N3	25:BA:2746:U:C4	2.80	0.50
25:BA:2773:C:H2'	25:BA:2774:C:H6	1.75	0.50
25:BA:2854:G:C6	25:BA:2855:C:C4	2.99	0.50
25:BA:2630:G:C4	25:BA:2894:G:C6	2.99	0.50
25:BA:312:G:C2	25:BA:313:C:C4	3.00	0.50
25:BA:404:C:H5''	25:BA:405:U:OP1	2.11	0.50
25:BA:422:A:N1	25:BA:423:A:C4	2.78	0.50
25:BA:479:A:O2'	25:BA:480:A:P	2.70	0.50
25:BA:514:A:O3'	42:BT:32:PHE:HZ	1.94	0.50
25:BA:553:U:O4	25:BA:554:U:O4	2.30	0.50
25:BA:564:C:H2'	25:BA:565:C:H6	1.76	0.50
25:BA:592:G:C5	25:BA:593:G:C8	2.99	0.50
25:BA:618:G:P	30:BF:106:ARG:HD2	2.51	0.50
25:BA:627:A:N3	25:BA:637:A:C4	2.80	0.50
25:BA:673:C:H5''	30:BF:81:PRO:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:703:U:H3'	25:BA:704:G:C8	2.38	0.50
25:BA:728:G:H8	25:BA:728:G:OP2	1.93	0.50
25:BA:860:U:H6	25:BA:861:A:H5'	1.76	0.50
25:BA:988:A:N1	25:BA:989:G:C2	2.79	0.50
26:BB:115:G:H4'	40:BR:50:SER:CB	2.41	0.50
26:BB:45:A:C8	31:BG:95:ARG:NH2	2.80	0.50
26:BB:81:G:C5	26:BB:82:G:C8	3.00	0.50
27:BC:7:TYR:HE1	27:BC:10:LEU:HG	1.75	0.50
27:BC:222:VAL:O	27:BC:222:VAL:CG1	2.59	0.50
28:BD:34:VAL:HG22	28:BD:94:LEU:CD2	2.41	0.50
29:BE:184:VAL:O	29:BE:185:LYS:HB3	2.11	0.50
29:BE:67:PHE:O	29:BE:68:ALA:C	2.49	0.50
29:BE:46:ALA:CB	29:BE:85:ASN:ND2	2.65	0.50
30:BF:182:ASN:OD1	30:BF:185:ASP:N	2.45	0.50
30:BF:190:GLU:OE2	30:BF:190:GLU:HA	2.10	0.50
31:BG:128:ARG:NH2	31:BG:130:ASN:OD1	2.45	0.50
31:BG:131:TYR:CZ	31:BG:157:ILE:O	2.64	0.50
31:BG:131:TYR:HB2	31:BG:159:VAL:H	1.77	0.50
25:BA:2305:A:O2'	31:BG:136:ARG:HA	2.10	0.50
31:BG:14:GLU:O	31:BG:17:PRO:HD2	2.10	0.50
31:BG:1:MET:CB	31:BG:2:PRO:CD	2.87	0.50
31:BG:57:ALA:HB2	31:BG:68:PRO:C	2.31	0.50
31:BG:74:LYS:HG2	31:BG:75:LYS:CG	2.42	0.50
33:BK:11:ASN:C	33:BK:13:GLY:H	2.14	0.50
25:BA:2093:G:C1'	33:BK:29:TYR:CD2	2.91	0.50
33:BK:31:LEU:O	33:BK:32:PRO:C	2.49	0.50
35:BM:109:LYS:CA	35:BM:109:LYS:HE2	2.41	0.50
35:BM:10:GLU:CD	35:BM:39:ARG:HD2	2.32	0.50
35:BM:62:VAL:O	35:BM:64:GLY:N	2.40	0.50
35:BM:88:GLU:HB2	35:BM:89:LYS:CE	2.42	0.50
36:BN:67:LYS:NZ	36:BN:77:ILE:CG2	2.74	0.50
37:BO:124:LYS:HA	37:BO:138:LEU:HG	1.92	0.50
37:BO:79:ARG:O	37:BO:83:VAL:CG1	2.53	0.50
38:BP:75:THR:HA	38:BP:91:GLU:OE2	2.12	0.50
25:BA:1279:G:OP1	39:BQ:34:ILE:HG23	2.11	0.50
41:BS:7:ILE:O	41:BS:11:GLU:CD	2.50	0.50
42:BT:28:ARG:HD3	42:BT:38:THR:CG2	2.41	0.50
42:BT:52:ARG:CA	42:BT:55:ARG:HE	2.25	0.50
42:BT:65:ILE:HD13	42:BT:96:ALA:CB	2.33	0.50
43:BU:30:GLY:HA3	43:BU:33:VAL:HG22	1.92	0.50
43:BU:33:VAL:CG1	43:BU:34:GLU:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:106:ILE:O	44:BV:106:ILE:HG22	2.10	0.50
44:BV:23:LEU:HD22	44:BV:35:ILE:HD13	1.93	0.50
46:BX:29:GLU:O	46:BX:30:VAL:HG23	2.12	0.50
38:BP:82:ARG:CB	48:BZ:5:LYS:HD3	2.40	0.50
33:BK:75:LEU:CD1	33:BK:76:THR:N	2.69	0.50
33:BK:81:VAL:CG2	33:BK:145:VAL:N	2.75	0.50
25:BA:1065:U:H1'	25:BA:1074:G:H22	1.77	0.50
34:BL:111:LYS:O	34:BL:113:PRO:CD	2.58	0.50
1:AA:1031:G:H2'	1:AA:1032:A:O4'	2.12	0.50
1:AA:96:G:C2	1:AA:97:U:H1'	2.46	0.50
7:AG:70:ILE:HD11	7:AG:118:ARG:NH2	2.26	0.50
25:BA:772:C:C2	25:BA:773:U:C5	3.00	0.50
12:AL:108:VAL:O	12:AL:108:VAL:HG23	2.11	0.50
1:AA:1016:A:C8	1:AA:1016:A:O5'	2.59	0.50
1:AA:104:G:C2	1:AA:105:G:C8	3.00	0.50
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.42	0.50
1:AA:1324:A:C6	1:AA:1325:C:C5	2.99	0.50
1:AA:1326:C:H5''	24:AX:12:LYS:NZ	2.25	0.50
1:AA:1350:A:C8	1:AA:1350:A:O5'	2.65	0.50
1:AA:1396:A:C4'	1:AA:1398:A:H1'	2.42	0.50
1:AA:1406:U:C1'	1:AA:1518:A:H4'	2.42	0.50
1:AA:1462:G:O2'	1:AA:1463:C:H5'	2.11	0.50
1:AA:1476:G:H8	1:AA:1476:G:O5'	1.95	0.50
1:AA:170:U:O2'	1:AA:171:A:H5'	2.11	0.50
1:AA:193:C:H4'	23:AW:61:SER:N	2.27	0.50
1:AA:237:C:C5'	20:AT:25:ARG:NH2	2.75	0.50
1:AA:389:A:C4	1:AA:390:C:O4'	2.64	0.50
1:AA:429:U:C5'	1:AA:430:A:OP1	2.55	0.50
1:AA:44:G:H2'	1:AA:45:U:O5'	2.11	0.50
1:AA:533:A:HO2'	1:AA:534:U:P	2.35	0.50
1:AA:575:G:HO2'	1:AA:576:G:P	2.34	0.50
1:AA:812:C:C1'	1:AA:813:U:C5	2.94	0.50
1:AA:855:G:O2'	1:AA:856:C:H5'	2.11	0.50
1:AA:858:G:N2	1:AA:869:G:H2'	2.25	0.50
1:AA:988:G:C2	1:AA:989:C:C2	3.00	0.50
2:AC:70:G:C2	2:AC:71:C:C6	2.99	0.50
5:AE:70:PHE:CE2	5:AE:163:PHE:CB	2.94	0.50
5:AE:84:GLU:OE2	5:AE:219:VAL:HG21	2.12	0.50
5:AE:23:ARG:NH1	5:AE:24:TRP:O	2.44	0.50
6:AF:134:ILE:N	6:AF:134:ILE:HD12	2.25	0.50
6:AF:14:ILE:HG22	6:AF:15:THR:CG2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:191:THR:CG2	6:AF:196:LEU:HD21	2.40	0.50
7:AG:120:LEU:HG	7:AG:121:VAL:H	1.75	0.50
7:AG:16:GLY:O	7:AG:17:VAL:C	2.48	0.50
8:AH:84:PHE:HE1	8:AH:133:TYR:HB3	1.74	0.50
9:AI:42:GLU:O	9:AI:44:GLY:N	2.37	0.50
9:AI:4:TYR:CD2	9:AI:4:TYR:N	2.79	0.50
9:AI:64:GLN:C	9:AI:65:VAL:HG12	2.31	0.50
9:AI:83:ASP:O	9:AI:85:VAL:N	2.45	0.50
10:AJ:104:LEU:N	10:AJ:104:LEU:HD23	2.25	0.50
11:AK:10:LEU:CD1	11:AK:85:ARG:CB	2.88	0.50
11:AK:14:ARG:HD2	11:AK:15:ASN:H	1.76	0.50
12:AL:47:LEU:CD1	12:AL:50:LEU:HD22	2.38	0.50
12:AL:5:TYR:CZ	12:AL:7:THR:OG1	2.63	0.50
12:AL:97:LYS:O	12:AL:100:GLY:HA3	2.10	0.50
13:AM:13:HIS:HB2	13:AM:68:HIS:CE1	2.46	0.50
16:AP:120:LYS:HG2	16:AP:121:LYS:N	2.26	0.50
1:AA:953:G:O4'	16:AP:126:LYS:OXT	2.30	0.50
16:AP:91:ARG:HH12	16:AP:103:THR:HG22	1.76	0.50
17:AQ:21:TYR:CE2	17:AQ:23:ARG:HG2	2.47	0.50
18:AR:64:ARG:O	18:AR:67:LEU:N	2.44	0.50
18:AR:77:ARG:HB3	18:AR:77:ARG:CZ	2.42	0.50
18:AR:77:ARG:O	18:AR:80:ALA:HB3	2.12	0.50
18:AR:78:TYR:HE2	18:AR:82:ILE:HD11	1.75	0.50
20:AT:16:GLN:C	20:AT:18:THR:H	2.14	0.50
20:AT:10:VAL:HG11	20:AT:52:LYS:C	2.32	0.50
23:AW:43:LEU:O	23:AW:46:GLU:HG3	2.12	0.50
23:AW:49:ALA:HB3	23:AW:99:LEU:CD1	2.42	0.50
24:AX:10:ARG:CA	24:AX:13:ILE:HB	2.37	0.50
49:B1:65:GLN:HA	49:B1:65:GLN:HE21	1.77	0.50
50:B2:54:VAL:HG22	50:B2:55:ARG:O	2.12	0.50
51:B3:64:GLY:O	51:B3:68:ARG:NH2	2.45	0.50
53:B5:9:LEU:HD21	53:B5:29:ASN:ND2	2.27	0.50
55:B7:25:MET:HE3	55:B7:45:GLY:O	2.11	0.50
37:BO:45:LEU:CD2	55:B7:59:LYS:HD2	2.35	0.50
25:BA:1107:G:H3'	25:BA:1107:G:C8	2.47	0.50
25:BA:1019:U:OP1	25:BA:1120:G:N2	2.43	0.50
25:BA:1179:C:HO2'	25:BA:1180:C:C5'	2.13	0.50
25:BA:1342:A:C4	25:BA:1345:C:N4	2.80	0.50
25:BA:138:G:N2	25:BA:139:G:C8	2.80	0.50
25:BA:13:A:O2'	25:BA:14:A:O5'	2.28	0.50
25:BA:1470:G:C8	25:BA:1519:G:N7	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1511:A:C8	25:BA:1512:G:H5''	2.46	0.50
25:BA:1545:A:C6	25:BA:1545(A):A:C2	3.00	0.50
25:BA:1622:G:C6	25:BA:1623:G:N7	2.80	0.50
25:BA:1650:G:O2'	25:BA:1651:G:C5'	2.58	0.50
25:BA:1671:U:O2	25:BA:1673:U:O5'	2.29	0.50
25:BA:1676:A:H2'	25:BA:1677:A:H8	1.76	0.50
25:BA:1753:G:C3'	25:BA:1753:G:C8	2.94	0.50
25:BA:1784:A:O3'	25:BA:1785:A:O4'	2.28	0.50
25:BA:2016:U:C2'	25:BA:2017:U:O4'	2.60	0.50
25:BA:981:A:N3	25:BA:2037:G:H1'	2.27	0.50
25:BA:2111:C:H1'	25:BA:2118:U:H1'	1.88	0.50
25:BA:2197:U:C6	25:BA:2224:G:C2	3.00	0.50
25:BA:2321:G:H2'	25:BA:2321:G:N3	2.27	0.50
25:BA:2423:U:H2'	25:BA:2423:U:O2	2.12	0.50
25:BA:2059:A:C2	25:BA:2503:A:C5	3.00	0.50
25:BA:2546:U:O4'	25:BA:2565:A:C2	2.64	0.50
25:BA:2573:C:O5'	25:BA:2573:C:H6	1.94	0.50
25:BA:2590:A:C6	25:BA:2591:C:N4	2.80	0.50
25:BA:2617:C:N3	25:BA:2618:G:C8	2.80	0.50
25:BA:265:A:H2'	25:BA:266:G:C1'	2.37	0.50
25:BA:270(F):U:H2'	25:BA:270(G):C:C4'	2.41	0.50
25:BA:2712:U:O2'	25:BA:2712(A):A:P	2.70	0.50
25:BA:2740:A:H2'	25:BA:2741:A:N7	2.26	0.50
25:BA:2742:C:OP1	56:B8:2:LYS:HE2	2.11	0.50
25:BA:2742:C:O2'	25:BA:2743:C:H5'	2.12	0.50
25:BA:2745:C:C4	25:BA:2746:U:C4	2.99	0.50
25:BA:2807:G:H2'	25:BA:2808:U:C6	2.44	0.50
25:BA:2836:U:H2'	25:BA:2837:G:C8	2.46	0.50
25:BA:287:C:H3'	25:BA:288:C:C5	2.46	0.50
25:BA:388:G:N3	25:BA:390:A:N1	2.59	0.50
25:BA:401:A:N7	25:BA:402:A:C8	2.80	0.50
25:BA:465:G:C6	25:BA:466:A:C6	3.00	0.50
25:BA:484:C:C2	25:BA:485:C:C5	2.99	0.50
25:BA:506:G:O4'	25:BA:506:G:OP2	2.30	0.50
25:BA:259:G:O2'	25:BA:621:A:O4'	2.23	0.50
25:BA:624:C:OP2	37:BO:105:LEU:CD2	2.59	0.50
25:BA:657:U:C2	25:BA:658:C:C5	3.00	0.50
25:BA:662:G:H2'	25:BA:663:G:C8	2.46	0.50
25:BA:733:G:H8	25:BA:733:G:OP2	1.95	0.50
25:BA:735:A:OP2	25:BA:736:C:H5	1.94	0.50
25:BA:815:C:C2	25:BA:816:C:H5	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:899:A:N1	25:BA:900:A:C4	2.80	0.50
25:BA:957:A:C8	25:BA:957:A:H3'	2.46	0.50
26:BB:35:U:O2	26:BB:35:U:H2'	2.10	0.50
26:BB:69:G:H5'	26:BB:70:C:OP2	2.12	0.50
27:BC:163:PHE:CZ	27:BC:195:ALA:HB1	2.47	0.50
27:BC:214:VAL:HG23	27:BC:224:ILE:CD1	2.21	0.50
25:BA:2178:C:OP1	27:BC:46:LYS:HG2	2.11	0.50
28:BD:94:LEU:CD1	28:BD:102:LYS:HB3	2.41	0.50
28:BD:161:THR:HA	28:BD:196:VAL:HG23	1.92	0.50
25:BA:781:A:O2'	28:BD:222:ARG:CZ	2.60	0.50
29:BE:11:MET:HE2	29:BE:12:THR:H	1.77	0.50
29:BE:120:TRP:CG	29:BE:121:ASN:N	2.80	0.50
29:BE:131:ALA:CB	29:BE:134:ILE:HG12	2.34	0.50
29:BE:39:PRO:CD	29:BE:40:GLU:H	2.22	0.50
29:BE:93:VAL:CG1	29:BE:180:ASN:HD21	2.24	0.50
30:BF:43:LYS:NZ	30:BF:100:THR:HG23	2.27	0.50
31:BG:134:GLY:HA3	31:BG:156:ASP:CA	2.40	0.50
31:BG:30:GLU:O	31:BG:32:PRO:HA	2.11	0.50
31:BG:33:ARG:NH1	31:BG:35:GLU:HB3	2.27	0.50
31:BG:74:LYS:HD3	31:BG:87:PRO:CG	2.40	0.50
31:BG:9:ARG:NH1	31:BG:9:ARG:CG	2.75	0.50
35:BM:97:ARG:O	35:BM:100:GLU:N	2.45	0.50
36:BN:111:PHE:CD1	36:BN:114:ILE:HG22	2.46	0.50
36:BN:88:ASN:O	36:BN:89:ASN:C	2.50	0.50
37:BO:17:LYS:HB2	37:BO:17:LYS:NZ	2.09	0.50
37:BO:76:LYS:NZ	37:BO:112:LEU:CD1	2.75	0.50
40:BR:17:ARG:HH12	40:BR:27:SER:HB2	1.76	0.50
40:BR:57:LYS:HD3	40:BR:58:LEU:N	2.27	0.50
40:BR:6:ALA:HA	40:BR:9:ARG:HB2	1.93	0.50
41:BS:52:ILE:N	41:BS:66:VAL:HG12	2.26	0.50
41:BS:79:HIS:O	41:BS:82:LEU:HB2	2.11	0.50
42:BT:46:ALA:O	42:BT:50:ARG:HD3	2.11	0.50
43:BU:15:GLU:HA	43:BU:100:ARG:HH12	1.69	0.50
43:BU:40:LEU:HG	43:BU:54:GLY:C	2.32	0.50
43:BU:81:TYR:O	43:BU:82:ARG:CB	2.58	0.50
44:BV:24:ILE:HD11	44:BV:47:VAL:CG1	2.42	0.50
45:BW:50:LYS:HZ1	45:BW:87:GLN:N	2.09	0.50
45:BW:54:VAL:HG22	45:BW:81:VAL:HG23	1.93	0.50
47:BY:40:ASP:O	47:BY:44:PHE:HB2	2.11	0.50
26:BB:102:G:H1'	47:BY:73:GLN:HE21	1.77	0.50
48:BZ:50:ASN:O	48:BZ:62:LEU:CB	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BK:109:ILE:CG2	33:BK:113:ARG:CZ	2.86	0.50
33:BK:124:GLY:O	33:BK:125:GLU:CB	2.58	0.50
33:BK:81:VAL:HG21	33:BK:144:VAL:CG1	2.27	0.50
25:BA:1055:G:N3	25:BA:1084:A:C2	2.80	0.50
34:BL:65:PHE:O	34:BL:66:THR:HG23	2.12	0.50
12:AL:54:ASP:OD1	12:AL:54:ASP:O	2.30	0.50
25:BA:2293:C:C4	25:BA:2294:C:C5	2.99	0.50
1:AA:1051:C:H2'	1:AA:1052:U:O4'	2.11	0.50
23:AW:94:ALA:O	23:AW:95:ALA:CB	2.59	0.50
4:A1:16:A:H8	4:A1:16:A:OP2	1.95	0.50
1:AA:1138:G:C3'	1:AA:1138:G:N3	2.74	0.50
1:AA:1196:U:C4'	1:AA:1197:G:O5'	2.59	0.50
1:AA:1254:C:OP1	13:AM:45:ARG:CZ	2.60	0.50
1:AA:1330:U:C5	1:AA:1331:G:N7	2.80	0.50
1:AA:1371:G:C6	1:AA:1372:U:C4	2.99	0.50
1:AA:1428:A:C2	1:AA:1429:C:C2	3.00	0.50
1:AA:1433:A:C2'	1:AA:1434:A:H5'	2.41	0.50
1:AA:193:C:O2'	1:AA:194:C:C5'	2.55	0.50
1:AA:123:C:O2'	1:AA:290:C:O2	2.24	0.50
1:AA:375:U:O3'	19:AS:6:LEU:CD2	2.52	0.50
1:AA:438:G:N3	1:AA:495:A:C8	2.80	0.50
1:AA:43:C:OP1	19:AS:12:LYS:CG	2.56	0.50
1:AA:543:C:C2	1:AA:544:G:N7	2.80	0.50
1:AA:550:G:C6	1:AA:551:U:C4	3.00	0.50
1:AA:664:G:N3	1:AA:726:C:H4'	2.27	0.50
1:AA:717:C:O2'	1:AA:718:G:P	2.69	0.50
1:AA:896:C:C2	1:AA:897:C:C6	2.99	0.50
1:AA:961:U:H6	1:AA:983:A:C4	2.29	0.50
2:AC:62:C:O2'	2:AC:63:G:C5'	2.60	0.50
2:AC:6:G:H2'	2:AC:7:G:C8	2.46	0.50
5:AE:112:VAL:O	5:AE:116:GLU:OE2	2.30	0.50
5:AE:133:LYS:CA	5:AE:133:LYS:HE2	2.39	0.50
5:AE:20:GLU:CD	5:AE:189:ASP:OD2	2.50	0.50
5:AE:212:GLN:OE1	5:AE:216:SER:HB2	2.12	0.50
5:AE:25:ASN:ND2	5:AE:27:LYS:N	2.58	0.50
5:AE:78:GLN:O	5:AE:94:ASN:ND2	2.44	0.50
6:AF:105:GLU:HG2	6:AF:105:GLU:O	2.10	0.50
6:AF:16:ARG:O	6:AF:17:ASP:OD1	2.29	0.50
7:AG:61:LYS:HE3	7:AG:62:GLN:CA	2.42	0.50
8:AH:59:GLY:O	8:AH:62:ALA:N	2.45	0.50
9:AI:69:GLU:O	9:AI:72:VAL:HG13	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:149:ARG:HB3	14:AN:59:TYR:CE2	2.46	0.50
10:AJ:45:ASP:HA	10:AJ:48:LYS:HZ1	1.74	0.50
10:AJ:75:VAL:HG22	10:AJ:88:PRO:HA	1.92	0.50
11:AK:122:ARG:CD	11:AK:123:GLU:H	2.24	0.50
11:AK:29:SER:CA	11:AK:32:LYS:HZ1	2.22	0.50
12:AL:43:ALA:O	12:AL:45:ALA:N	2.44	0.50
13:AM:84:GLN:OE1	13:AM:88:LEU:CD1	2.60	0.50
1:AA:706:A:H4'	14:AN:29:ILE:HD11	1.93	0.50
16:AP:29:ARG:HA	16:AP:64:TRP:CZ2	2.46	0.50
17:AQ:3:ARG:NH1	17:AQ:5:ALA:HB3	2.26	0.50
20:AT:45:HIS:HE1	20:AT:47:PRO:HA	1.76	0.50
21:AU:40:LEU:C	21:AU:42:ARG:H	2.15	0.50
14:AN:110:ASP:CB	21:AU:88:LYS:HD2	2.42	0.50
23:AW:59:ALA:O	23:AW:60:GLU:C	2.50	0.50
50:B2:15:TYR:HB2	50:B2:16:PRO:HD2	1.93	0.50
50:B2:6:VAL:HG13	50:B2:56:VAL:HA	1.91	0.50
51:B3:11:PRO:O	51:B3:12:ALA:HB2	2.11	0.50
52:B4:21:SER:O	52:B4:22:HIS:C	2.47	0.50
53:B5:15:GLU:HB2	53:B5:53:LYS:CB	2.42	0.50
53:B5:37:ARG:HG3	53:B5:51:GLU:OE2	2.12	0.50
54:B6:1:MET:O	54:B6:2:LYS:HB3	2.11	0.50
54:B6:41:ARG:NH1	54:B6:41:ARG:HB3	2.22	0.50
25:BA:1000:A:N1	25:BA:1155:A:C1'	2.74	0.50
25:BA:1207:C:O4'	25:BA:1207:C:P	2.70	0.50
25:BA:1223:C:H42	43:BU:88:ARG:CZ	2.20	0.50
25:BA:1254:A:H8	25:BA:1256:G:C8	2.30	0.50
25:BA:1277:G:N2	39:BQ:23:ASN:ND2	2.60	0.50
25:BA:1296:G:C2'	25:BA:1297:C:O5'	2.59	0.50
25:BA:1533:C:O2	25:BA:1539:G:N2	2.44	0.50
25:BA:154:G:O2'	25:BA:155:C:C5'	2.60	0.50
25:BA:1561:G:O2'	25:BA:1562:A:H5'	2.12	0.50
25:BA:141:A:C6	25:BA:1596:A:O2'	2.65	0.50
25:BA:1619:G:C2	25:BA:1620:G:N9	2.80	0.50
25:BA:1664:A:H4'	36:BN:66:LYS:HZ3	1.75	0.50
25:BA:1819:A:H2'	25:BA:1820:U:OP2	2.12	0.50
25:BA:2033:A:O2'	25:BA:2034:U:O5'	2.27	0.50
25:BA:2061:G:H21	25:BA:2063:C:C1'	2.22	0.50
25:BA:2101:G:C5	25:BA:2102:U:C5	3.00	0.50
25:BA:2335:A:C8	25:BA:2337:G:C6	2.99	0.50
25:BA:2415:G:P	37:BO:61:ARG:NE	2.85	0.50
25:BA:2466:C:C5'	56:B8:5:ALA:HB1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2520:C:C2'	25:BA:2521:C:C5'	2.87	0.50
25:BA:2605:U:O2'	25:BA:2606:C:H5'	2.11	0.50
25:BA:2049:G:C2	25:BA:2620:C:C2	3.00	0.50
25:BA:2667:C:C6	25:BA:2668:G:C8	3.00	0.50
25:BA:2675:A:H2'	25:BA:2676:C:H5'	1.93	0.50
25:BA:2681:C:N4	25:BA:2725:A:N6	2.58	0.50
25:BA:2743:C:C2	25:BA:2762:G:C2	2.99	0.50
25:BA:30:G:O2'	25:BA:31:C:O4'	2.28	0.50
25:BA:36:G:H4'	25:BA:451:C:N3	2.27	0.50
25:BA:270:A:C6	25:BA:370:G:C1'	2.95	0.50
25:BA:261:G:O4'	25:BA:608:A:H2	1.94	0.50
25:BA:636:G:H2'	37:BO:113:LYS:HE3	1.94	0.50
25:BA:705:A:N7	25:BA:727:A:C5	2.80	0.50
25:BA:785:G:N2	25:BA:786:C:N1	2.60	0.50
27:BC:21:THR:CG2	27:BC:225:ASN:HD22	2.16	0.50
27:BC:29:VAL:HG13	27:BC:30:LYS:N	2.26	0.50
28:BD:10:THR:N	28:BD:11:PRO:HD3	2.27	0.50
28:BD:258:LYS:C	28:BD:261:LYS:HE3	2.32	0.50
28:BD:27:THR:HG22	28:BD:29:PRO:CG	2.42	0.50
25:BA:2821:A:C5'	29:BE:110:GLY:HA3	2.31	0.50
25:BA:2729:G:H4'	29:BE:185:LYS:HE2	1.94	0.50
29:BE:46:ALA:HB3	29:BE:80:GLU:OE2	2.11	0.50
29:BE:49:LEU:HD21	29:BE:75:VAL:N	2.25	0.50
29:BE:30:PRO:CA	29:BE:49:LEU:O	2.54	0.50
30:BF:115:ALA:O	30:BF:119:ARG:CG	2.58	0.50
30:BF:130:ALA:O	30:BF:138:GLU:C	2.49	0.50
31:BG:125:PHE:C	31:BG:127:GLY:H	2.15	0.50
31:BG:27:ASN:OD1	31:BG:29:TRP:NE1	2.45	0.50
31:BG:79:ASN:OD1	31:BG:82:LEU:HD21	2.12	0.50
32:BH:7:LEU:CB	32:BH:52:VAL:O	2.60	0.50
32:BH:89:ILE:CG1	32:BH:90:LYS:N	2.74	0.50
35:BM:4:TYR:HD2	42:BT:100:VAL:CG1	2.24	0.50
35:BM:75:TYR:O	35:BM:76:SER:C	2.50	0.50
37:BO:57:THR:CG2	37:BO:58:THR:N	2.68	0.50
38:BP:37:LEU:HB2	38:BP:129:THR:HA	1.92	0.50
38:BP:99:PRO:O	38:BP:99:PRO:CG	2.57	0.50
39:BQ:21:TYR:N	39:BQ:21:TYR:HD2	2.08	0.50
25:BA:2000:G:OP2	39:BQ:2:ARG:NE	2.44	0.50
40:BR:11:LYS:HA	40:BR:14:VAL:CG2	2.41	0.50
40:BR:31:SER:HB3	40:BR:34:HIS:HB3	1.89	0.50
42:BT:108:GLU:O	42:BT:111:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BW:19:ALA:O	45:BW:23:GLU:OE2	2.30	0.50
46:BX:27:VAL:HG22	46:BX:28:LYS:N	2.26	0.50
46:BX:5:MET:SD	46:BX:33:LYS:HE2	2.52	0.50
47:BY:139:VAL:HG21	47:BY:155:LEU:O	2.11	0.50
47:BY:18:LEU:HD22	47:BY:23:LYS:CG	2.42	0.50
47:BY:34:ASN:CG	47:BY:35:ARG:N	2.63	0.50
47:BY:48:PHE:CB	47:BY:54:HIS:NE2	2.74	0.50
33:BK:147:GLN:OE1	33:BK:147:GLN:C	2.50	0.50
34:BL:132:ARG:O	34:BL:133:SER:C	2.50	0.50
34:BL:88:ALA:O	34:BL:94:GLU:OE1	2.30	0.50
1:AA:89:U:N3	1:AA:90:C:C5	2.80	0.50
26:BB:118:G:O6	26:BB:119:A:N6	2.45	0.50
1:AA:76:G:O2'	1:AA:77:C:H5'	2.11	0.50
16:AP:122:LYS:O	16:AP:123:ALA:CB	2.59	0.50
1:AA:1125:U:H4'	1:AA:1126:U:C5	2.44	0.50
1:AA:1158:C:O2	1:AA:1158:C:H3'	2.12	0.50
1:AA:1159:U:C5	1:AA:1181:G:N7	2.79	0.50
1:AA:1239:A:C8	1:AA:1241:G:N3	2.80	0.50
1:AA:1274:G:H21	1:AA:1275:A:H62	1.57	0.50
1:AA:1368:G:P	12:AL:113:LYS:HA	2.52	0.50
1:AA:1399:C:N3	1:AA:1502:A:N6	2.53	0.50
1:AA:1424:C:H2'	1:AA:1425:U:O4'	2.11	0.50
1:AA:142:G:C2	1:AA:143:A:C5	3.00	0.50
1:AA:1460:A:C2	1:AA:1461:G:C1'	2.95	0.50
1:AA:1476:G:C4	1:AA:1477:C:C5	3.00	0.50
1:AA:151:A:C5	1:AA:152:A:N3	2.80	0.50
1:AA:1522:U:O2'	1:AA:1523:G:C5'	2.59	0.50
1:AA:468:A:H1'	19:AS:82:GLN:CG	2.41	0.50
1:AA:521:G:OP1	15:AO:73:GLU:O	2.30	0.50
1:AA:563:A:H1'	1:AA:566:G:O2'	2.11	0.50
1:AA:564:C:C4	1:AA:565:U:C4	3.00	0.50
1:AA:626:U:O3'	19:AS:38:TYR:CE2	2.65	0.50
1:AA:646:U:H2'	1:AA:647:C:H6	1.77	0.50
1:AA:821:G:C2	1:AA:822:C:C2	3.00	0.50
1:AA:895:G:H2'	1:AA:896:C:C6	2.46	0.50
2:AC:4:G:H2'	2:AC:5:G:C8	2.38	0.50
3:AD:74:C:H6	3:AD:74:C:H5'	1.76	0.50
5:AE:170:GLU:HA	5:AE:170:GLU:OE1	2.11	0.50
6:AF:10:PHE:O	6:AF:10:PHE:HD1	1.95	0.50
6:AF:145:GLY:O	6:AF:146:ALA:HB2	2.11	0.50
1:AA:1109:C:OP1	6:AF:176:HIS:CE1	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:40:ARG:NH1	6:AF:40:ARG:HG3	2.27	0.50
9:AI:42:GLU:C	9:AI:44:GLY:H	2.15	0.50
9:AI:4:TYR:HD1	9:AI:90:VAL:CG2	2.25	0.50
10:AJ:37:ASN:OD1	10:AJ:38:LEU:N	2.44	0.50
10:AJ:88:PRO:HD2	10:AJ:152:ALA:CA	2.41	0.50
11:AK:37:ARG:NE	11:AK:38:ILE:HD13	2.26	0.50
14:AN:84:VAL:HG11	21:AU:88:LYS:CD	2.24	0.50
15:AO:96:VAL:HG12	15:AO:96:VAL:O	2.11	0.50
16:AP:78:ILE:HA	16:AP:81:LEU:CD1	2.42	0.50
16:AP:81:LEU:O	16:AP:86:CYS:SG	2.70	0.50
17:AQ:14:PRO:HB2	17:AQ:17:LYS:HA	1.93	0.50
18:AR:6:GLU:HG2	18:AR:7:GLU:H	1.76	0.50
20:AT:29:HIS:HB2	20:AT:36:ILE:CG2	2.42	0.50
22:AV:77:THR:HG23	22:AV:78:ARG:H	1.76	0.50
49:B1:13:PRO:O	49:B1:15:GLU:N	2.44	0.50
49:B1:23:LYS:O	49:B1:26:GLU:HB3	2.12	0.50
50:B2:51:ALA:O	50:B2:53:LEU:N	2.44	0.50
52:B4:4:HIS:CD2	52:B4:5:PRO:N	2.80	0.50
53:B5:19:ARG:H	53:B5:19:ARG:CD	2.21	0.50
25:BA:1044:G:H21	25:BA:1111:A:C4'	2.25	0.50
25:BA:1131:G:C4	35:BM:82:LEU:HD11	2.47	0.50
25:BA:1137:G:O2'	35:BM:102:ALA:O	2.29	0.50
25:BA:1189:A:N6	25:BA:1190:G:C2	2.79	0.50
25:BA:1276:A:N1	25:BA:1295:C:C2	2.79	0.50
25:BA:1363:C:H1'	25:BA:1810:A:H1'	1.94	0.50
25:BA:1343:G:N3	25:BA:1384:A:H2	2.10	0.50
25:BA:1435:G:C6	25:BA:1558:A:N6	2.80	0.50
25:BA:1339:G:N2	25:BA:1603:A:C8	2.80	0.50
25:BA:1641:A:N6	25:BA:1642:G:C2	2.80	0.50
25:BA:1825:A:C2'	25:BA:1825:A:N3	2.75	0.50
25:BA:1847:A:C2	25:BA:1851:U:O4	2.65	0.50
25:BA:1943:U:C6	25:BA:1943:U:OP1	2.65	0.50
25:BA:1943:U:C4'	25:BA:1944:U:O5'	2.31	0.50
25:BA:2013:A:H2'	25:BA:2014:A:C8	2.47	0.50
25:BA:2027:G:N2	25:BA:2028:U:H1'	2.27	0.50
25:BA:2218:G:O3'	28:BD:186:HIS:NE2	2.44	0.50
25:BA:2231:C:OP1	51:B3:38:LYS:HD3	2.12	0.50
25:BA:2244:U:HO2'	25:BA:2245:U:P	2.34	0.50
25:BA:2278:A:C6	25:BA:2279:G:C5	2.99	0.50
25:BA:2406:U:N3	37:BO:65:ARG:HA	2.27	0.50
25:BA:410:G:C2	25:BA:2407:G:N7	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2478:A:N3	25:BA:2529:G:H2'	2.26	0.50
25:BA:257:A:H8	25:BA:257:A:O5'	1.95	0.50
25:BA:2703:C:O2'	25:BA:2704:C:H5'	2.12	0.50
25:BA:270(P):C:O2'	25:BA:270(Q):C:H5'	2.11	0.50
25:BA:2725:A:HO2'	25:BA:2726:U:H6	1.60	0.50
25:BA:2797:U:O3'	25:BA:2798:C:H4'	2.12	0.50
25:BA:2808:U:O2'	25:BA:2810:A:OP1	2.30	0.50
25:BA:107:C:C4'	25:BA:293:U:H1'	2.41	0.50
25:BA:306:U:H5	25:BA:307:G:C4	2.29	0.50
25:BA:412:A:H2'	25:BA:413:C:C5'	2.42	0.50
25:BA:483:A:C8	46:BX:45:VAL:HB	2.46	0.50
25:BA:49:A:H5'	25:BA:50:U:P	2.51	0.50
25:BA:559:G:H8	25:BA:559:G:H5'	1.77	0.50
25:BA:566:U:C6	25:BA:567:A:C8	2.99	0.50
25:BA:5:A:C4	25:BA:6:A:C8	3.00	0.50
25:BA:876:C:H2'	25:BA:877:U:H6	1.74	0.50
25:BA:8:A:C5'	35:BM:51:PHE:CZ	2.95	0.50
25:BA:979:G:C8	25:BA:979:G:C3'	2.95	0.50
26:BB:43:C:N4	26:BB:45:A:H62	2.10	0.50
27:BC:123:VAL:HG11	27:BC:138:PRO:CD	2.41	0.50
27:BC:196:LEU:O	27:BC:197:GLU:C	2.49	0.50
27:BC:213:TYR:CE2	27:BC:223:ARG:HG3	2.47	0.50
27:BC:39:GLU:O	27:BC:178:ALA:HB2	2.11	0.50
28:BD:140:THR:C	28:BD:165:ILE:HD13	2.31	0.50
28:BD:15:PHE:O	28:BD:17:THR:N	2.44	0.50
29:BE:161:GLY:C	29:BE:163:GLU:HG2	2.31	0.50
29:BE:37:ARG:C	29:BE:39:PRO:CD	2.78	0.50
25:BA:2637:U:H5'	29:BE:43:GLY:CA	2.42	0.50
30:BF:109:GLY:O	30:BF:110:LEU:C	2.49	0.50
30:BF:162:LEU:O	30:BF:165:ARG:CB	2.58	0.50
30:BF:184:TYR:O	30:BF:185:ASP:C	2.50	0.50
31:BG:114:ILE:HB	31:BG:140:ILE:HG13	1.93	0.50
31:BG:40:ASN:O	31:BG:156:ASP:O	2.29	0.50
31:BG:43:LEU:H	31:BG:43:LEU:HD13	1.76	0.50
31:BG:57:ALA:N	31:BG:68:PRO:HB2	2.27	0.50
31:BG:63:ILE:HG23	31:BG:64:THR:N	2.25	0.50
32:BH:153:LYS:HB2	32:BH:162:ILE:CG2	2.42	0.50
32:BH:59:ARG:HH21	32:BH:59:ARG:HG2	1.77	0.50
32:BH:72:ILE:O	32:BH:75:ALA:HB3	2.12	0.50
33:BK:14:ASP:O	33:BK:15:VAL:C	2.49	0.50
25:BA:2093:G:C5'	33:BK:25:TYR:CG	2.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:86:PRO:HB2	35:BM:89:LYS:HZ1	1.68	0.50
38:BP:102:VAL:O	38:BP:102:VAL:CG1	2.59	0.50
39:BQ:33:ARG:HG2	39:BQ:113:LEU:HD21	1.89	0.50
39:BQ:50:HIS:CE1	39:BQ:54:LEU:HD22	2.44	0.50
40:BR:32:LEU:C	40:BR:34:HIS:N	2.64	0.50
40:BR:41:ASP:CG	40:BR:42:ASP:N	2.63	0.50
40:BR:56:LEU:CB	40:BR:59:LYS:HD2	2.38	0.50
40:BR:67:ARG:NE	40:BR:71:ARG:CG	2.75	0.50
41:BS:42:ILE:HG22	41:BS:42:ILE:O	2.12	0.50
36:BN:79:PHE:HB2	41:BS:73:GLU:HB3	1.92	0.50
42:BT:111:GLU:CG	42:BT:112:ARG:N	2.75	0.50
25:BA:1154:G:OP2	42:BT:58:ARG:HD2	2.11	0.50
44:BV:10:VAL:CG2	44:BV:12:ILE:HD11	2.42	0.50
44:BV:89:ALA:O	44:BV:90:ARG:C	2.49	0.50
25:BA:142:G:C4'	45:BW:37:THR:OG1	2.59	0.50
47:BY:104:PHE:CB	47:BY:139:VAL:O	2.59	0.50
47:BY:150:LEU:C	47:BY:171:ILE:HG23	2.30	0.50
47:BY:4:ARG:HH11	47:BY:37:VAL:C	2.14	0.50
48:BZ:11:ARG:HG3	48:BZ:11:ARG:O	2.12	0.50
48:BZ:44:ARG:O	48:BZ:45:PHE:CD2	2.65	0.50
33:BK:123:LEU:CD1	33:BK:145:VAL:HA	2.42	0.50
33:BK:125:GLU:CB	33:BK:143:SER:CA	2.63	0.50
25:BA:1088:A:C2'	25:BA:1089:G:OP1	2.60	0.50
34:BL:138:VAL:HG23	34:BL:138:VAL:O	2.11	0.50
1:AA:435:C:H2'	1:AA:436:C:H5'	1.92	0.50
26:BB:116:G:H2'	26:BB:117:G:C1'	2.42	0.50
1:AA:1134:G:C6	1:AA:1141:C:C4	3.00	0.50
1:AA:1239:A:C2	1:AA:1298:C:C5	3.00	0.50
1:AA:1369:C:OP2	12:AL:111:ARG:HG3	2.12	0.50
1:AA:923:A:H5'	1:AA:1398:A:N6	2.27	0.50
1:AA:1515:C:O2'	1:AA:1516:G:C5'	2.60	0.50
1:AA:160:A:H2	1:AA:343:U:H1'	1.73	0.50
1:AA:193:C:C2	1:AA:194:C:H5	2.30	0.50
1:AA:267:C:H2'	1:AA:268:C:C5	2.47	0.50
1:AA:272:C:C2	1:AA:273:A:C8	3.00	0.50
1:AA:345:C:C4'	1:AA:346:G:O5'	2.52	0.50
1:AA:352:C:H4'	1:AA:354:G:OP1	2.12	0.50
1:AA:402:G:C2'	1:AA:620:C:H42	2.24	0.50
1:AA:412:A:H4'	1:AA:413:G:H8	1.77	0.50
1:AA:533:A:O2'	1:AA:534:U:P	2.70	0.50
1:AA:558:G:C8	1:AA:559:A:N3	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:620:C:C2	7:AG:135:LEU:HD13	2.46	0.50
1:AA:5:U:H4'	1:AA:6:G:OP2	2.11	0.50
1:AA:667:G:C2	1:AA:740:U:C2	3.00	0.50
1:AA:755:G:OP1	18:AR:66:LEU:HD12	2.11	0.50
1:AA:970:C:H4'	1:AA:972:C:C6	2.46	0.50
1:AA:979:C:N3	17:AQ:18:VAL:O	2.44	0.50
1:AA:9:G:OP2	8:AH:121:LYS:CD	2.55	0.50
2:AC:32:C:H6	2:AC:32:C:O5'	1.94	0.50
3:AD:9:A:N6	3:AD:22:G:N7	2.60	0.50
3:AD:3:C:C2	3:AD:4:G:N7	2.80	0.50
3:AD:56:C:N4	25:BA:2169:A:C2	2.80	0.50
5:AE:131:PRO:C	5:AE:133:LYS:N	2.65	0.50
5:AE:169:LYS:C	5:AE:169:LYS:CD	2.80	0.50
5:AE:77:ALA:HB2	5:AE:211:ILE:CD1	2.39	0.50
6:AF:87:LEU:CD1	6:AF:101:LEU:HD11	2.38	0.50
6:AF:105:GLU:O	6:AF:105:GLU:CG	2.60	0.50
6:AF:194:GLY:O	6:AF:196:LEU:HD23	2.10	0.50
6:AF:42:LEU:HD23	6:AF:45:LYS:CD	2.40	0.50
7:AG:10:ARG:O	7:AG:10:ARG:HD3	2.11	0.50
7:AG:148:VAL:O	7:AG:149:ALA:O	2.29	0.50
7:AG:178:VAL:O	7:AG:179:GLU:O	2.29	0.50
7:AG:56:VAL:O	7:AG:59:ARG:HB2	2.12	0.50
8:AH:127:ASN:O	8:AH:128:PRO:C	2.50	0.50
8:AH:13:ILE:HD12	8:AH:13:ILE:H	1.74	0.50
10:AJ:148:ASN:HB3	10:AJ:151:TYR:HD1	1.76	0.50
10:AJ:76:ARG:HD3	10:AJ:156:TRP:NE1	2.26	0.50
11:AK:129:VAL:HG13	11:AK:130:GLY:N	2.25	0.50
5:AE:181:PHE:CE1	11:AK:70:GLN:NE2	2.80	0.50
1:AA:1347:G:C8	12:AL:107:ARG:CD	2.92	0.50
1:AA:1347:G:C8	12:AL:107:ARG:CZ	2.95	0.50
12:AL:66:ARG:HG2	12:AL:67:GLY:N	2.26	0.50
13:AM:3:LYS:CE	13:AM:3:LYS:N	2.75	0.50
15:AO:102:ARG:NH1	15:AO:110:VAL:HG13	2.27	0.50
15:AO:43:VAL:CG2	15:AO:55:VAL:HG21	2.21	0.50
19:AS:4:ILE:HG13	19:AS:66:PRO:HB3	1.93	0.50
22:AV:38:SER:OG	22:AV:71:LEU:CD1	2.59	0.50
22:AV:36:ARG:NE	22:AV:51:VAL:CG1	2.75	0.50
49:B1:26:GLU:O	49:B1:29:GLU:CB	2.59	0.50
50:B2:9:VAL:HG22	50:B2:53:LEU:CA	2.41	0.50
51:B3:12:ALA:N	51:B3:40:HIS:CE1	2.79	0.50
53:B5:30:THR:O	53:B5:32:ASN:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B7:12:LYS:O	55:B7:13:ARG:C	2.50	0.50
25:BA:2361:A:OP2	55:B7:28:GLY:CA	2.59	0.50
56:B8:9:ARG:HH21	56:B8:16:VAL:HG12	1.77	0.50
25:BA:99:U:C4'	25:BA:101:G:H5'	2.42	0.50
25:BA:1021:A:O2'	25:BA:1123:C:H5''	2.11	0.50
25:BA:1151:G:H2'	25:BA:1152:C:H6	1.77	0.50
25:BA:1169:G:H2'	25:BA:1170:G:O4'	2.12	0.50
25:BA:1346:G:H2'	25:BA:1347:G:H8	1.77	0.50
25:BA:1400:G:O2'	25:BA:1401:G:H5'	2.12	0.50
25:BA:1401:G:C6	25:BA:1402:C:C4	3.00	0.50
25:BA:1476:C:C5	25:BA:1477:A:C6	2.99	0.50
25:BA:152:G:N2	25:BA:175:G:N3	2.60	0.50
25:BA:1563:G:HO2'	25:BA:1564:C:H5'	1.75	0.50
25:BA:1395:A:OP2	25:BA:1604:C:OP2	2.30	0.50
25:BA:1662:C:H2'	25:BA:1663:C:C6	2.47	0.50
25:BA:1688:U:C2'	25:BA:1689:A:OP2	2.60	0.50
25:BA:1748:G:N2	25:BA:1749:A:N3	2.60	0.50
25:BA:1892:C:H2'	25:BA:1893:C:C6	2.45	0.50
25:BA:2056:G:C8	25:BA:2577:A:C6	3.00	0.50
25:BA:2189:U:O2'	25:BA:2190:G:H5'	2.12	0.50
25:BA:2244:U:O2'	25:BA:2245:U:H5'	2.12	0.50
25:BA:2289:G:C2'	25:BA:2290:G:H5''	2.42	0.50
25:BA:2302:G:C4	25:BA:2303:G:C8	3.00	0.50
25:BA:2371:G:N2	25:BA:2372:G:C6	2.80	0.50
25:BA:2345:G:H21	25:BA:2381:C:H3'	1.76	0.50
25:BA:2486:G:C2	25:BA:2487:G:C8	3.00	0.50
25:BA:2059:A:N1	25:BA:2503:A:N7	2.60	0.50
25:BA:2541:A:H2	25:BA:2765:A:N6	2.07	0.50
25:BA:2542:A:O4'	25:BA:2542:A:P	2.69	0.50
25:BA:2562:U:O2'	36:BN:23:ARG:CZ	2.60	0.50
25:BA:2759:G:C2	25:BA:2760:C:C5	3.00	0.50
25:BA:300:A:N3	25:BA:319:C:H1'	2.26	0.50
25:BA:41:C:H2'	25:BA:43:G:H8	1.77	0.50
25:BA:500:G:C2'	25:BA:501:A:H3'	2.42	0.50
25:BA:569:U:H5'	25:BA:946:G:H1'	1.93	0.50
25:BA:778:G:H8	25:BA:778:G:O5'	1.94	0.50
25:BA:802:A:H2'	25:BA:803:U:C6	2.47	0.50
25:BA:803:U:C2'	25:BA:804:A:C5'	2.86	0.50
25:BA:814:C:C2	25:BA:815:C:C5	2.99	0.50
25:BA:860:U:H5	25:BA:861:A:C8	2.30	0.50
25:BA:885:C:H5'	25:BA:886:C:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:917:A:C2	25:BA:918:A:N3	2.80	0.50
27:BC:163:PHE:N	27:BC:163:PHE:HD2	2.08	0.50
27:BC:194:ARG:NH1	27:BC:194:ARG:HG3	2.27	0.50
27:BC:43:VAL:HB	27:BC:175:VAL:CG1	2.42	0.50
28:BD:174:ILE:CD1	28:BD:174:ILE:N	2.75	0.50
28:BD:51:VAL:HG12	28:BD:52:ARG:CG	2.41	0.50
30:BF:136:THR:O	30:BF:139:PHE:N	2.45	0.50
30:BF:164:ARG:C	30:BF:164:ARG:CD	2.80	0.50
30:BF:153:SER:OG	30:BF:190:GLU:HG2	2.11	0.50
31:BG:9:ARG:HA	31:BG:12:TYR:CE2	2.46	0.50
31:BG:27:ASN:HB3	31:BG:29:TRP:CZ2	2.47	0.50
31:BG:47:LYS:NZ	31:BG:49:ASP:OD2	2.41	0.50
31:BG:61:ALA:CB	31:BG:67:LYS:HE3	2.41	0.50
31:BG:78:SER:CB	31:BG:82:LEU:HB2	2.42	0.50
32:BH:26:VAL:O	32:BH:79:VAL:HG11	2.12	0.50
33:BK:21:VAL:O	33:BK:26:ALA:HB2	2.12	0.50
35:BM:50:ASP:O	35:BM:119:ARG:HB3	2.12	0.50
35:BM:123:TYR:HB2	35:BM:129:PRO:HG3	1.92	0.50
35:BM:17:ASP:HB3	35:BM:21:LYS:CE	2.38	0.50
35:BM:46:VAL:CG1	35:BM:47:ALA:H	2.10	0.50
35:BM:35:ARG:O	35:BM:49:GLY:CA	2.57	0.50
35:BM:58:ASP:OD1	35:BM:59:LYS:HG2	2.12	0.50
36:BN:18:LYS:HD3	36:BN:44:LYS:HD2	1.93	0.50
25:BA:945:A:C8	37:BO:33:ARG:NH1	2.80	0.50
38:BP:34:LEU:HA	38:BP:131:ILE:CD1	2.41	0.50
38:BP:44:ALA:O	38:BP:47:ILE:CB	2.54	0.50
39:BQ:25:ALA:H	39:BQ:44:LEU:HD21	1.76	0.50
40:BR:33:LYS:CG	40:BR:54:LEU:HD21	2.42	0.50
40:BR:89:ARG:CD	40:BR:90:GLY:N	2.74	0.50
41:BS:18:ASP:HA	41:BS:81:PRO:CB	2.42	0.50
42:BT:58:ARG:HH11	42:BT:58:ARG:HB2	1.76	0.50
42:BT:82:GLY:HA2	42:BT:117:GLN:HG2	1.93	0.50
43:BU:2:PHE:O	43:BU:44:LYS:NZ	2.45	0.50
44:BV:7:ALA:H	44:BV:103:ILE:CD1	2.21	0.50
45:BW:15:GLU:O	45:BW:18:TYR:HB2	2.12	0.50
45:BW:63:LYS:HD3	45:BW:72:LYS:HG2	1.93	0.50
47:BY:139:VAL:HG12	47:BY:140:ASP:H	1.74	0.50
47:BY:37:VAL:C	47:BY:38:TYR:CD2	2.85	0.50
47:BY:49:ARG:C	47:BY:51:ALA:N	2.65	0.50
33:BK:135:GLU:N	33:BK:135:GLU:OE1	2.45	0.50
34:BL:121:GLU:CD	34:BL:125:ARG:NH2	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:122:LYS:O	16:AP:123:ALA:HB2	2.12	0.50
1:AA:122:G:OP1	1:AA:122:G:C8	2.64	0.49
1:AA:1231:G:OP1	12:AL:127:LYS:HD3	2.12	0.49
1:AA:1242:C:O2'	1:AA:1302:U:O2'	2.29	0.49
1:AA:1433:A:C6	1:AA:1434:A:C2	2.99	0.49
1:AA:1528:U:O2	1:AA:1530:G:H5''	2.12	0.49
1:AA:17:U:C2	1:AA:18:C:C5	3.00	0.49
1:AA:181:G:H22	1:AA:183:G:N2	2.09	0.49
1:AA:20:U:C2'	1:AA:21:G:C5'	2.90	0.49
1:AA:392:G:O3'	19:AS:12:LYS:HE2	2.12	0.49
1:AA:402:G:C6	1:AA:403:C:C4	3.00	0.49
1:AA:407:G:H5''	7:AG:115:ARG:CG	2.42	0.49
1:AA:44:G:C2	1:AA:45:U:C1'	2.95	0.49
1:AA:44:G:C2'	1:AA:45:U:O5'	2.60	0.49
1:AA:520:A:N7	1:AA:521:G:C8	2.80	0.49
1:AA:509:A:C2	1:AA:543:C:H2'	2.47	0.49
1:AA:556:C:C2'	1:AA:557:G:H5'	2.42	0.49
1:AA:580:U:C6	1:AA:581:G:N7	2.80	0.49
1:AA:685:G:H2'	1:AA:686:U:H6	1.77	0.49
1:AA:687:A:H2'	1:AA:701:C:N4	2.27	0.49
1:AA:729:A:C2	1:AA:730:G:N9	2.80	0.49
1:AA:673:G:C6	1:AA:734:G:C6	3.00	0.49
1:AA:908:A:N3	1:AA:909:A:N7	2.60	0.49
1:AA:970:C:C5'	1:AA:972:C:H6	2.25	0.49
2:AC:7:G:C6	2:AC:49:G:C5	3.00	0.49
3:AD:19:G:N1	3:AD:56:C:N3	2.60	0.49
3:AD:63:G:C2	3:AD:64:C:N3	2.80	0.49
5:AE:95:GLN:HE21	5:AE:148:TYR:HA	1.77	0.49
5:AE:192:SER:O	5:AE:194:PRO:CD	2.60	0.49
6:AF:188:LEU:CD1	6:AF:190:ARG:HG2	2.42	0.49
6:AF:28:GLN:NE2	6:AF:29:TYR:N	2.60	0.49
7:AG:152:SER:C	7:AG:154:ASN:ND2	2.65	0.49
7:AG:179:GLU:CG	7:AG:180:GLY:N	2.69	0.49
8:AH:105:VAL:HG12	8:AH:106:PRO:CD	2.42	0.49
8:AH:84:PHE:HB3	8:AH:134:ALA:HB2	1.94	0.49
9:AI:70:ASP:OD1	9:AI:71:ARG:N	2.45	0.49
11:AK:74:PRO:O	11:AK:75:ARG:O	2.30	0.49
1:AA:1199:U:H4'	13:AM:54:PHE:CE2	2.47	0.49
14:AN:57:THR:HG23	14:AN:60:ALA:N	2.12	0.49
15:AO:38:THR:CG2	15:AO:39:VAL:H	2.16	0.49
15:AO:46:LYS:HB3	15:AO:48:PRO:HD2	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:53:ARG:NE	15:AO:92:ASP:OD2	2.43	0.49
15:AO:88:GLY:HA3	15:AO:99:HIS:CE1	2.46	0.49
18:AR:33:THR:C	18:AR:36:ILE:HG22	2.30	0.49
18:AR:49:ASP:O	18:AR:49:ASP:OD1	2.30	0.49
20:AT:94:ASN:HA	20:AT:104:LYS:CG	2.40	0.49
20:AT:9:VAL:HG12	20:AT:22:LEU:HB3	1.93	0.49
1:AA:189:U:H3	20:AT:63:ARG:HB3	1.75	0.49
21:AU:77:GLY:C	21:AU:78:LEU:HG	2.32	0.49
21:AU:77:GLY:C	21:AU:79:LEU:HD12	2.33	0.49
22:AV:63:THR:O	22:AV:64:GLU:C	2.50	0.49
23:AW:53:LEU:HA	23:AW:56:MET:CB	2.33	0.49
1:AA:1305:G:OP1	24:AX:2:GLY:CA	2.60	0.49
50:B2:54:VAL:CG2	50:B2:55:ARG:H	2.24	0.49
52:B4:16:ARG:HD2	52:B4:17:ASP:OD2	2.11	0.49
25:BA:242:G:C3'	55:B7:4:MET:SD	2.91	0.49
25:BA:1025:G:C8	25:BA:1134:G:C1'	2.95	0.49
25:BA:1143:A:O2'	25:BA:1144:G:O4'	2.29	0.49
25:BA:1264:G:H5'	52:B4:15:ARG:NH1	2.27	0.49
25:BA:1365:A:H5'	25:BA:1365:A:H8	1.77	0.49
25:BA:1423:G:C2	25:BA:1424:G:C8	3.00	0.49
25:BA:1475:G:C2'	25:BA:1475:G:N3	2.73	0.49
25:BA:1587:A:H2'	25:BA:1588:C:H6	1.74	0.49
25:BA:1604:C:H2'	25:BA:1604:C:O2	2.10	0.49
25:BA:1917:U:H3'	25:BA:1918:A:H8	1.78	0.49
25:BA:2010:G:C5	25:BA:2011:U:C6	3.00	0.49
25:BA:2141:G:C6	25:BA:2151:G:C6	3.00	0.49
25:BA:2306:C:OP1	31:BG:136:ARG:CD	2.57	0.49
25:BA:2311:A:C2	31:BG:45:GLU:CD	2.85	0.49
25:BA:2323:G:C2	25:BA:2324:C:C4	3.00	0.49
25:BA:2284:C:O2'	25:BA:2325:G:N2	2.45	0.49
25:BA:2346:A:C2	25:BA:2383:G:N1	2.80	0.49
25:BA:2285:C:C2	25:BA:2384:G:N2	2.80	0.49
25:BA:2423:U:C6	25:BA:2425:A:C2	2.99	0.49
25:BA:2514:U:H2'	25:BA:2515:C:C5	2.43	0.49
25:BA:2550:G:C2'	25:BA:2551:C:O5'	2.60	0.49
25:BA:2579:C:C4'	29:BE:132:HIS:CE1	2.94	0.49
25:BA:2648:C:H2'	25:BA:2649:U:H6	1.75	0.49
25:BA:279:C:C6	25:BA:279:C:O5'	2.65	0.49
25:BA:2821:A:C2	25:BA:2822:G:N9	2.80	0.49
25:BA:2852:G:C2'	25:BA:2853:C:O5'	2.60	0.49
25:BA:2856:C:H2'	25:BA:2857:G:H5'	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:29:U:C6	25:BA:29:U:OP2	2.65	0.49
25:BA:347:A:C2	25:BA:348:G:C8	3.00	0.49
25:BA:452:G:C3'	25:BA:453:C:H5''	2.37	0.49
25:BA:463:G:N2	25:BA:467:G:C8	2.80	0.49
25:BA:469:G:C2'	25:BA:470:A:O5'	2.60	0.49
25:BA:483:A:H3'	25:BA:484:C:C6	2.47	0.49
25:BA:491:G:H2'	25:BA:492:A:O4'	2.12	0.49
25:BA:529:A:C8	25:BA:2042:A:N1	2.80	0.49
25:BA:567:A:N3	25:BA:567:A:H2'	2.25	0.49
25:BA:638:G:H3'	25:BA:638:G:H8	1.74	0.49
25:BA:643:A:O2'	25:BA:644:A:P	2.70	0.49
25:BA:658:C:C2	25:BA:659:C:C5	2.99	0.49
25:BA:736:C:C4	25:BA:737:C:C5	3.00	0.49
25:BA:763:G:C6	25:BA:765:G:C5	3.00	0.49
25:BA:819:A:N7	25:BA:973:A:C2	2.79	0.49
25:BA:837:C:O5'	25:BA:837:C:H6	1.95	0.49
25:BA:946:G:O2'	25:BA:947:G:H5'	2.12	0.49
26:BB:9:G:N2	26:BB:10:C:C4	2.81	0.49
26:BB:81:G:H2'	26:BB:82:G:C5'	2.41	0.49
27:BC:181:PRO:CG	27:BC:184:LYS:HD2	2.42	0.49
27:BC:54:SER:CB	27:BC:57:ASN:HD22	2.25	0.49
27:BC:75:LEU:HG	27:BC:77:ILE:HG13	1.94	0.49
28:BD:111:LEU:HA	28:BD:115:GLN:HE22	1.77	0.49
28:BD:146:GLU:OE2	28:BD:150:LYS:N	2.45	0.49
25:BA:1819:A:OP1	28:BD:160:GLY:HA3	2.12	0.49
28:BD:140:THR:O	28:BD:165:ILE:HD13	2.11	0.49
28:BD:174:ILE:O	28:BD:174:ILE:HG22	2.12	0.49
28:BD:182:LEU:CG	28:BD:270:ILE:CG1	2.88	0.49
28:BD:208:LYS:CG	28:BD:211:ARG:HG2	2.41	0.49
28:BD:72:LYS:C	28:BD:74:GLY:N	2.62	0.49
29:BE:133:LYS:O	29:BE:136:ARG:O	2.30	0.49
30:BF:39:TRP:HB2	30:BF:101:LEU:HG	1.94	0.49
31:BG:134:GLY:HA3	31:BG:156:ASP:CB	2.42	0.49
31:BG:30:GLU:OE2	31:BG:33:ARG:HG2	2.12	0.49
32:BH:103:LEU:HD11	32:BH:148:ILE:HD12	1.93	0.49
32:BH:161:GLY:C	32:BH:163:TYR:CE1	2.86	0.49
32:BH:166:GLY:O	32:BH:169:VAL:HG13	2.12	0.49
32:BH:54:ARG:NH2	32:BH:65:HIS:CG	2.80	0.49
35:BM:17:ASP:N	35:BM:21:LYS:HZ2	2.09	0.49
35:BM:27:ALA:HA	35:BM:30:ILE:HD13	1.93	0.49
36:BN:97:ARG:HG2	36:BN:117:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:49:ARG:HG3	55:B7:52:LYS:CD	2.41	0.49
40:BR:31:SER:HB3	40:BR:34:HIS:HB2	1.92	0.49
41:BS:24:PRO:HG2	41:BS:25:GLY:H	1.77	0.49
41:BS:31:SER:HG	41:BS:49:VAL:HG13	1.77	0.49
41:BS:34:VAL:HG23	41:BS:84:GLN:O	2.11	0.49
43:BU:27:ALA:HB2	43:BU:35:LEU:HD12	1.92	0.49
45:BW:35:THR:HB	45:BW:38:GLU:HB2	1.94	0.49
45:BW:72:LYS:O	45:BW:73:ARG:CB	2.59	0.49
45:BW:73:ARG:NH1	45:BW:74:PRO:N	2.61	0.49
45:BW:48:LYS:O	45:BW:88:LYS:CG	2.60	0.49
46:BX:75:ILE:C	46:BX:100:ALA:CB	2.80	0.49
46:BX:12:THR:O	46:BX:73:ARG:CZ	2.60	0.49
46:BX:40:GLU:O	46:BX:62:GLU:OE2	2.30	0.49
47:BY:154:ASP:O	47:BY:156:LYS:N	2.45	0.49
48:BZ:12:ASN:HA	48:BZ:14:ARG:NE	2.25	0.49
48:BZ:37:LEU:HG	48:BZ:38:VAL:H	1.77	0.49
33:BK:76:THR:HA	33:BK:141:LYS:CG	2.34	0.49
25:BA:1080:C:O2'	34:BL:126:MET:CG	2.60	0.49
1:AA:1001:G:C8	1:AA:1001:G:H3'	2.47	0.49
1:AA:1003:G:N1	1:AA:1038:C:C2	2.80	0.49
1:AA:1026:G:H2'	1:AA:1027:C:H5'	1.92	0.49
26:BB:1:U:H6	26:BB:1:U:C5'	2.22	0.49
1:AA:1008:C:C2	1:AA:1009:G:C8	3.00	0.49
1:AA:1227:A:P	16:AP:111:LYS:HZ1	2.35	0.49
1:AA:1291:G:C2	1:AA:1292:U:C2	3.00	0.49
1:AA:1418:A:C2	1:AA:1483:A:N1	2.80	0.49
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.77	0.49
1:AA:1438:G:H2'	1:AA:1439:C:H6	1.77	0.49
1:AA:1474:G:N1	1:AA:1475:G:N7	2.60	0.49
1:AA:184:G:H5'	1:AA:224:C:O2'	2.13	0.49
1:AA:246:A:H1'	1:AA:247:G:H1'	1.94	0.49
1:AA:404:U:H5'	7:AG:122:ARG:NH1	2.15	0.49
1:AA:465:A:N7	1:AA:467:G:C6	2.80	0.49
1:AA:52:G:H2'	1:AA:53:A:O5'	2.12	0.49
1:AA:582:U:N3	1:AA:583:A:N7	2.59	0.49
1:AA:571:U:O5'	1:AA:819:A:C8	2.65	0.49
1:AA:944:G:C2	1:AA:1340:A:C6	3.01	0.49
3:AD:4:G:O2'	3:AD:5:A:H5'	2.12	0.49
3:AD:1:G:C6	3:AD:73:A:C6	3.00	0.49
5:AE:101:MET:HA	5:AE:108:ILE:CB	2.42	0.49
5:AE:113:HIS:HA	5:AE:116:GLU:OE1	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:177:ALA:O	5:AE:179:LYS:N	2.45	0.49
1:AA:829:G:C1'	5:AE:26:PRO:HG2	2.42	0.49
5:AE:48:MET:O	5:AE:49:GLU:C	2.48	0.49
5:AE:57:PHE:C	5:AE:57:PHE:HD2	2.15	0.49
6:AF:88:ARG:NE	6:AF:101:LEU:H	2.10	0.49
7:AG:130:GLY:CA	7:AG:131:ARG:NH1	2.67	0.49
9:AI:15:ASP:OD1	9:AI:16:GLN:N	2.44	0.49
10:AJ:49:ILE:H	10:AJ:49:ILE:HD12	1.76	0.49
10:AJ:74:GLU:HG2	10:AJ:75:VAL:N	2.27	0.49
11:AK:46:LYS:CD	11:AK:64:LYS:HA	2.42	0.49
11:AK:46:LYS:HE3	11:AK:64:LYS:CG	2.36	0.49
11:AK:9:MET:C	11:AK:13:ILE:HD12	2.33	0.49
13:AM:13:HIS:ND1	13:AM:13:HIS:O	2.44	0.49
14:AN:18:ARG:HB2	14:AN:33:THR:OG1	2.12	0.49
15:AO:27:LEU:HD22	15:AO:60:LEU:CD2	2.42	0.49
15:AO:66:VAL:HG12	15:AO:67:THR:N	2.19	0.49
1:AA:950:U:OP2	16:AP:102:ARG:NH2	2.46	0.49
19:AS:55:ARG:O	19:AS:58:TYR:N	2.45	0.49
19:AS:6:LEU:CD2	19:AS:6:LEU:C	2.80	0.49
1:AA:277:C:P	20:AT:68:ARG:HH12	2.34	0.49
20:AT:81:ARG:HG3	20:AT:84:LEU:HD22	1.92	0.49
21:AU:30:ASP:C	21:AU:32:ARG:H	2.13	0.49
21:AU:44:LEU:CD1	21:AU:45:SER:O	2.60	0.49
21:AU:54:ARG:CG	21:AU:54:ARG:O	2.60	0.49
23:AW:100:ILE:C	23:AW:102:GLY:H	2.14	0.49
50:B2:23:LEU:O	50:B2:28:LEU:HG	2.12	0.49
50:B2:9:VAL:CG2	50:B2:53:LEU:C	2.80	0.49
51:B3:17:GLY:CA	51:B3:33:VAL:HG11	2.41	0.49
51:B3:42:PHE:CB	51:B3:58:ARG:HH12	2.23	0.49
51:B3:57:GLU:C	51:B3:61:ARG:NH1	2.65	0.49
52:B4:17:ASP:N	52:B4:17:ASP:OD2	2.42	0.49
54:B6:21:ARG:NH1	54:B6:21:ARG:CB	2.65	0.49
25:BA:1027:A:C5	25:BA:1126:A:C2	3.00	0.49
25:BA:1242:A:C5'	25:BA:1243:G:OP2	2.58	0.49
25:BA:1311:G:C8	25:BA:1311:G:C3'	2.95	0.49
25:BA:1388:G:C6	25:BA:1400:G:N1	2.80	0.49
25:BA:1341:U:O4	25:BA:1397:U:O2	2.30	0.49
25:BA:1412:A:H2'	25:BA:1413:G:H8	1.77	0.49
25:BA:1496:A:C2'	25:BA:1496:A:N3	2.63	0.49
25:BA:1572:A:P	25:BA:1572:A:O4'	2.70	0.49
25:BA:1717:G:O2'	25:BA:1718:G:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:48:G:C1'	25:BA:178:G:N2	2.75	0.49
25:BA:1364:G:C5'	25:BA:1809:A:N7	2.75	0.49
25:BA:195:A:H2'	25:BA:198:C:N4	2.27	0.49
25:BA:2130:U:H4'	25:BA:2131:G:OP1	2.12	0.49
25:BA:2344:U:O2'	25:BA:2345:G:O5'	2.26	0.49
25:BA:2529:G:H5''	25:BA:2530:A:O5'	2.12	0.49
25:BA:2588:G:C6	25:BA:2589:A:C5	3.00	0.49
25:BA:2593:U:O4	28:BD:239:ARG:NH2	2.46	0.49
25:BA:2599:G:O2'	25:BA:2600:A:C5'	2.60	0.49
25:BA:2640:G:H4'	35:BM:75:TYR:CZ	2.48	0.49
25:BA:2687:U:O2	25:BA:2688:U:O4'	2.30	0.49
25:BA:2765:A:C2'	25:BA:2765:A:N3	2.73	0.49
25:BA:2797:U:O2	25:BA:2799:A:N7	2.45	0.49
25:BA:2839:G:C4'	39:BQ:49:ASP:OD2	2.58	0.49
25:BA:2866:U:H4'	25:BA:2867:G:O5'	2.11	0.49
25:BA:2886:G:O2'	52:B4:32:PRO:CD	2.59	0.49
25:BA:2887:U:H6	25:BA:2887:U:O5'	1.95	0.49
25:BA:2893:G:H1'	25:BA:2894:G:H8	1.77	0.49
25:BA:301:G:N2	25:BA:302:C:N3	2.60	0.49
25:BA:464:U:P	25:BA:464:U:C6	3.05	0.49
25:BA:483:A:N6	25:BA:497:A:C2	2.79	0.49
25:BA:494:G:C5'	44:BV:6:ILE:O	2.59	0.49
25:BA:552:G:C5	25:BA:553:U:C5	3.00	0.49
25:BA:559:G:O2'	25:BA:560:C:O4'	2.29	0.49
25:BA:566:U:H5''	43:BU:82:ARG:CZ	2.40	0.49
25:BA:577:G:H2'	25:BA:578:A:H8	1.77	0.49
25:BA:662:G:H5''	37:BO:16:ARG:HG2	1.95	0.49
25:BA:677:A:O3'	25:BA:2071:A:H5'	2.12	0.49
25:BA:712:G:C5	25:BA:713:G:N7	2.80	0.49
25:BA:764:A:N1	25:BA:781:A:C2	2.80	0.49
25:BA:84:A:O2'	25:BA:98:G:N2	2.43	0.49
25:BA:867:C:O2	25:BA:913:U:H5'	2.12	0.49
25:BA:960:A:N9	25:BA:962:G:C8	2.80	0.49
26:BB:112:G:N3	26:BB:112:G:C2'	2.71	0.49
27:BC:86:ALA:CA	27:BC:153:ILE:HD13	2.42	0.49
27:BC:90:GLY:C	27:BC:153:ILE:HG22	2.32	0.49
28:BD:238:GLY:H	28:BD:239:ARG:HD2	1.77	0.49
28:BD:270:ILE:O	28:BD:271:ILE:CB	2.60	0.49
29:BE:47:VAL:N	29:BE:48:GLN:NE2	2.59	0.49
30:BF:155:LEU:HD23	30:BF:174:VAL:HG21	1.93	0.49
30:BF:161:GLU:OE2	30:BF:177:ALA:CB	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:107:LEU:CG	31:BG:177:GLY:O	2.60	0.49
32:BH:157:TYR:CD1	32:BH:157:TYR:C	2.86	0.49
35:BM:133:GLN:N	35:BM:133:GLN:OE1	2.44	0.49
36:BN:103:ALA:O	36:BN:106:LEU:HG	2.12	0.49
36:BN:53:LYS:CG	36:BN:54:GLU:H	2.12	0.49
36:BN:87:ILE:O	36:BN:88:ASN:C	2.49	0.49
37:BO:65:ARG:CZ	37:BO:66:GLY:HA2	2.42	0.49
39:BQ:93:GLY:C	39:BQ:95:THR:H	2.14	0.49
40:BR:17:ARG:O	40:BR:20:ARG:N	2.45	0.49
40:BR:64:GLU:O	40:BR:65:VAL:C	2.49	0.49
40:BR:67:ARG:HD2	40:BR:67:ARG:O	2.12	0.49
41:BS:27:THR:O	41:BS:28:VAL:O	2.30	0.49
25:BA:2875:C:C4'	41:BS:3:ARG:HB2	2.37	0.49
42:BT:62:ILE:O	42:BT:65:ILE:HG12	2.12	0.49
43:BU:57:VAL:HG12	43:BU:58:VAL:HG23	1.94	0.49
44:BV:103:ILE:O	44:BV:103:ILE:HD13	2.12	0.49
44:BV:52:GLU:CA	44:BV:52:GLU:OE2	2.60	0.49
45:BW:14:SER:OG	45:BW:17:ALA:HB2	2.12	0.49
45:BW:20:GLY:HA3	45:BW:25:LYS:O	2.12	0.49
45:BW:12:VAL:H	45:BW:28:PHE:HA	1.77	0.49
46:BX:98:VAL:H	46:BX:101:LYS:HG3	1.77	0.49
46:BX:1:MET:HE1	46:BX:67:LEU:HB3	1.93	0.49
46:BX:42:VAL:H	46:BX:61:ILE:CG2	2.26	0.49
47:BY:56:VAL:O	47:BY:57:ILE:O	2.30	0.49
47:BY:1:MET:SD	47:BY:59:LEU:O	2.70	0.49
47:BY:77:ASP:O	47:BY:78:LYS:C	2.50	0.49
48:BZ:11:ARG:HH11	48:BZ:11:ARG:CG	2.24	0.49
48:BZ:1:MET:O	48:BZ:2:ALA:HB3	2.12	0.49
48:BZ:21:LEU:HD11	48:BZ:40:GLN:C	2.32	0.49
48:BZ:46:LYS:HG3	48:BZ:78:TYR:CD2	2.46	0.49
48:BZ:68:GLU:HB3	48:BZ:80:HIS:C	2.32	0.49
33:BK:128:LEU:HD23	33:BK:129:THR:HG22	1.94	0.49
33:BK:130:TYR:OH	33:BK:142:VAL:HG21	2.12	0.49
34:BL:119:ASP:HB3	34:BL:122:ALA:CB	2.41	0.49
7:AG:159:ARG:O	7:AG:160:GLN:C	2.48	0.49
1:AA:1120:G:H8	1:AA:1120:G:O5'	1.92	0.49
1:AA:1072:G:C6	1:AA:1104:G:N1	2.80	0.49
1:AA:1193:G:H2'	1:AA:1194:U:C5'	2.41	0.49
1:AA:10:A:H2'	1:AA:11:G:C5'	2.41	0.49
1:AA:1201:A:O2'	1:AA:1202:G:OP2	2.30	0.49
1:AA:120:A:H2'	1:AA:122:G:N7	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1404:C:C1'	1:AA:1499:A:H2	2.23	0.49
1:AA:1425:U:C2	1:AA:1426:C:C5	3.00	0.49
1:AA:468:A:C1'	19:AS:82:GLN:NE2	2.76	0.49
1:AA:484:G:C8	1:AA:486:U:C2	2.99	0.49
1:AA:547:A:O2'	1:AA:548:G:O5'	2.28	0.49
1:AA:670:G:H2'	1:AA:671:G:H5'	1.94	0.49
1:AA:679:C:O2'	1:AA:680:C:C5'	2.61	0.49
1:AA:686:U:H2'	1:AA:687:A:O5'	2.13	0.49
1:AA:730:G:C8	1:AA:731:G:H1'	2.46	0.49
1:AA:742:G:N2	1:AA:743:U:H1'	2.26	0.49
1:AA:858:G:H1	1:AA:869:G:H3'	1.78	0.49
1:AA:950:U:H2'	1:AA:951:G:H5'	1.94	0.49
2:AC:56:C:O2	31:BG:82:LEU:HB2	2.12	0.49
3:AD:19:G:N2	3:AD:57:G:C1'	2.66	0.49
3:AD:38:A:O2'	3:AD:39:U:H5'	2.11	0.49
5:AE:118:LEU:CD1	5:AE:141:GLU:OE2	2.60	0.49
5:AE:156:LYS:O	5:AE:156:LYS:HG2	2.11	0.49
5:AE:179:LYS:C	5:AE:181:PHE:N	2.64	0.49
5:AE:187:LEU:HD21	5:AE:203:GLY:C	2.32	0.49
5:AE:178:ARG:NE	5:AE:196:LEU:CD1	2.75	0.49
5:AE:14:GLY:CA	5:AE:209:ARG:CZ	2.90	0.49
6:AF:150:LYS:HB2	6:AF:173:VAL:CG2	2.30	0.49
6:AF:166:GLU:OE1	6:AF:166:GLU:HA	2.12	0.49
7:AG:29:PRO:O	7:AG:30:LYS:CG	2.60	0.49
7:AG:60:GLU:HA	7:AG:63:LYS:HD3	1.92	0.49
7:AG:73:ARG:O	7:AG:74:GLN:C	2.49	0.49
9:AI:67:MET:H	9:AI:67:MET:HE3	1.76	0.49
9:AI:75:LEU:HD22	9:AI:78:GLU:HB3	1.95	0.49
9:AI:78:GLU:HA	9:AI:81:ILE:HD11	1.94	0.49
3:AD:41:G:O2'	10:AJ:144:MET:SD	2.59	0.49
10:AJ:97:GLN:O	10:AJ:98:SER:C	2.50	0.49
14:AN:30:VAL:O	14:AN:42:TRP:CB	2.58	0.49
14:AN:42:TRP:C	14:AN:42:TRP:HE3	2.15	0.49
14:AN:79:SER:HA	14:AN:104:GLN:CD	2.32	0.49
15:AO:6:THR:OG1	15:AO:9:GLN:HG3	2.12	0.49
15:AO:73:GLU:OE1	15:AO:73:GLU:N	2.27	0.49
1:AA:948:C:OP2	16:AP:108:ARG:N	2.45	0.49
1:AA:1231:G:C4'	16:AP:126:LYS:HZ3	2.25	0.49
17:AQ:13:THR:O	17:AQ:14:PRO:C	2.49	0.49
18:AR:54:ARG:CZ	18:AR:58:MET:HE3	2.42	0.49
18:AR:70:LEU:HD22	18:AR:77:ARG:HH22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:6:LEU:C	19:AS:6:LEU:HD22	2.32	0.49
20:AT:31:LEU:O	20:AT:32:TYR:HD2	1.95	0.49
21:AU:21:LYS:HZ1	21:AU:23:LYS:CB	2.25	0.49
9:AI:49:ALA:HB1	21:AU:80:PRO:HB3	1.95	0.49
23:AW:57:ARG:CZ	23:AW:100:ILE:HD12	2.42	0.49
23:AW:65:LYS:O	23:AW:68:LYS:HG3	2.12	0.49
24:AX:13:ILE:HG22	24:AX:14:TRP:N	2.28	0.49
51:B3:18:CYS:SG	51:B3:19:GLY:N	2.80	0.49
51:B3:21:VAL:O	51:B3:22:ILE:HG13	2.11	0.49
51:B3:22:ILE:HG22	51:B3:26:SER:HB2	1.93	0.49
52:B4:51:TYR:O	52:B4:51:TYR:HD2	1.95	0.49
53:B5:40:CYS:SG	53:B5:40:CYS:O	2.71	0.49
54:B6:28:ARG:O	54:B6:31:LEU:HB2	2.12	0.49
55:B7:26:LYS:CB	55:B7:44:LYS:HZ1	2.24	0.49
25:BA:1022:G:C4	25:BA:1024:G:N2	2.80	0.49
25:BA:1047:G:C2	25:BA:1110:G:C5	3.00	0.49
25:BA:1413:G:C6	25:BA:1414:G:C8	3.00	0.49
25:BA:1291:C:C5'	25:BA:1535:U:O2'	2.42	0.49
25:BA:1609:A:C6	25:BA:1616:A:C2	2.99	0.49
25:BA:1650:G:O2'	25:BA:1651:G:O5'	2.29	0.49
25:BA:1677:A:C2	25:BA:1678:G:C4	3.00	0.49
25:BA:1698:A:C2'	25:BA:1699:G:OP2	2.60	0.49
25:BA:1702:G:N1	25:BA:1703:G:N7	2.60	0.49
25:BA:1758:G:C5	25:BA:2696:U:H5'	2.47	0.49
25:BA:1761:C:H5	25:BA:1762:A:H1'	1.78	0.49
25:BA:1818:U:O4	28:BD:156:ALA:CB	2.60	0.49
25:BA:194:G:O2'	25:BA:195:A:H5'	2.12	0.49
25:BA:2101:G:O2'	25:BA:2102:U:H5'	2.11	0.49
25:BA:2155:G:H2'	25:BA:2156:G:O5'	2.11	0.49
25:BA:2205:C:H2'	25:BA:2206:C:C5'	2.39	0.49
25:BA:2305:A:H61	31:BG:43:LEU:HD21	1.77	0.49
25:BA:2425:A:O2'	25:BA:2426:A:OP2	2.24	0.49
25:BA:2497:A:C8	25:BA:2497:A:H5''	2.47	0.49
25:BA:2547:U:C5	25:BA:2566:A:C4	3.00	0.49
25:BA:2587:A:C3'	25:BA:2588:G:H5'	2.41	0.49
25:BA:2599:G:H2'	25:BA:2600:A:O4'	2.13	0.49
25:BA:1456:G:C2	25:BA:2704:C:N3	2.80	0.49
25:BA:2784:C:C2	25:BA:2785:C:C6	3.00	0.49
25:BA:2633:G:OP1	25:BA:2811:G:O2'	2.30	0.49
25:BA:2838:G:C6	25:BA:2839:G:N7	2.80	0.49
25:BA:287:C:H3'	25:BA:288:C:H5	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:363(B):G:H2'	25:BA:363(C):G:O5'	2.13	0.49
25:BA:388:G:O2'	25:BA:390:A:N6	2.40	0.49
25:BA:448:U:O2	25:BA:448:U:H2'	2.12	0.49
25:BA:458:G:H3'	54:B6:39:ARG:HD2	1.93	0.49
25:BA:60:G:C2	25:BA:68:G:N2	2.81	0.49
25:BA:65:C:N3	25:BA:66:C:C5	2.80	0.49
25:BA:706:A:N7	25:BA:707:G:N7	2.59	0.49
25:BA:854:G:N2	25:BA:855:G:N3	2.60	0.49
25:BA:945:A:C6	25:BA:2448:A:C5	3.01	0.49
25:BA:819:A:H3'	25:BA:973:A:N1	2.27	0.49
25:BA:979:G:C3'	25:BA:980:A:C5'	2.86	0.49
26:BB:37:C:H2'	26:BB:38:C:O4'	2.12	0.49
27:BC:117:PRO:CD	27:BC:147:PHE:N	2.75	0.49
27:BC:160:ARG:O	27:BC:161:ILE:HG23	2.12	0.49
27:BC:19:ILE:CD1	27:BC:223:ARG:HD3	2.42	0.49
27:BC:56:GLN:HE22	27:BC:203:GLY:C	2.16	0.49
25:BA:2173:A:H2	27:BC:218:MET:SD	2.35	0.49
27:BC:6:ARG:HD2	27:BC:6:ARG:C	2.32	0.49
28:BD:219:PRO:O	28:BD:220:HIS:CG	2.65	0.49
28:BD:232:PRO:HD2	28:BD:233:HIS:HE1	1.69	0.49
28:BD:7:LYS:CE	28:BD:91:ARG:NE	2.68	0.49
29:BE:5:LEU:CG	29:BE:25:VAL:HG12	2.37	0.49
29:BE:49:LEU:CG	29:BE:74:PRO:CG	2.90	0.49
30:BF:103:LYS:HA	30:BF:106:ARG:CG	2.38	0.49
30:BF:27:GLU:OE1	30:BF:112:MET:HG2	2.10	0.49
30:BF:116:ASP:HA	30:BF:119:ARG:CD	2.43	0.49
30:BF:156:LEU:O	30:BF:176:LEU:HB3	2.11	0.49
30:BF:186:ILE:HG22	30:BF:187:VAL:N	2.26	0.49
25:BA:443:A:P	30:BF:46:ARG:HB3	2.53	0.49
31:BG:55:LYS:C	31:BG:57:ALA:N	2.62	0.49
31:BG:71:THR:CG2	31:BG:71:THR:O	2.55	0.49
35:BM:78:TYR:O	35:BM:79:PRO:O	2.30	0.49
35:BM:86:PRO:CD	35:BM:89:LYS:HD2	2.42	0.49
36:BN:42:SER:CB	36:BN:56:ASP:HB3	2.42	0.49
37:BO:73:GLY:N	37:BO:111:ARG:NH1	2.60	0.49
30:BF:31:HIS:CE1	37:BO:11:GLY:HA3	2.43	0.49
37:BO:77:ARG:HA	37:BO:115:LEU:CB	2.41	0.49
39:BQ:17:ARG:CZ	39:BQ:17:ARG:CB	2.88	0.49
39:BQ:76:VAL:HG12	39:BQ:77:ARG:HG2	1.93	0.49
40:BR:23:ARG:HH11	40:BR:44:LYS:CG	2.24	0.49
40:BR:56:LEU:HD12	40:BR:59:LYS:HD2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BR:78:LEU:HG	40:BR:111:GLU:OE1	2.12	0.49
41:BS:109:GLU:HB3	41:BS:114:LEU:CD2	2.31	0.49
41:BS:88:ILE:N	41:BS:88:ILE:CD1	2.72	0.49
45:BW:33:LYS:HD2	45:BW:33:LYS:C	2.33	0.49
46:BX:18:GLY:O	46:BX:19:LYS:CG	2.60	0.49
47:BY:57:ILE:CD1	47:BY:91:LEU:HD23	2.40	0.49
48:BZ:39:ARG:CG	48:BZ:39:ARG:HH11	2.17	0.49
48:BZ:78:TYR:CD1	48:BZ:78:TYR:N	2.78	0.49
33:BK:114:LEU:HD22	33:BK:130:TYR:CG	2.47	0.49
33:BK:93:THR:O	33:BK:95:LYS:N	2.45	0.49
7:AG:157:LEU:HA	7:AG:160:GLN:HG2	1.94	0.49
1:AA:1001:G:H5'	1:AA:1001:G:H8	1.76	0.49
1:AA:843:U:N3	5:AE:37:ASN:ND2	2.48	0.49
23:AW:8:ARG:NH1	23:AW:8:ARG:CB	2.75	0.49
1:AA:1115:C:C4	1:AA:1116:C:N4	2.80	0.49
1:AA:1261:A:N6	1:AA:1274:G:C4	2.80	0.49
1:AA:1314:C:N4	22:AV:4:SER:OG	2.46	0.49
1:AA:1359:C:O2'	1:AA:1361:G:OP2	2.31	0.49
1:AA:1390:U:N3	1:AA:1391:U:O4	2.45	0.49
1:AA:1490:C:H2'	1:AA:1491:G:O5'	2.12	0.49
1:AA:794:A:O2'	1:AA:1506:U:O4	2.23	0.49
1:AA:161:A:C6	1:AA:162:A:C5	3.00	0.49
1:AA:166:G:C2	1:AA:167:G:C8	3.00	0.49
1:AA:197:A:O2'	1:AA:198:G:O4'	2.24	0.49
1:AA:250:A:H5'	1:AA:252:U:O4'	2.12	0.49
1:AA:451:A:C2	1:AA:452:A:N6	2.80	0.49
1:AA:489:C:H2'	1:AA:490:G:H8	1.78	0.49
1:AA:557:G:N1	1:AA:558:G:C2	2.80	0.49
1:AA:590:C:O2'	1:AA:591:U:C5'	2.59	0.49
1:AA:601:C:C2	1:AA:638:G:N2	2.81	0.49
1:AA:652:U:O4	1:AA:752:G:C2'	2.60	0.49
1:AA:656:C:HO2'	1:AA:657:G:H5'	1.76	0.49
1:AA:702:A:H2'	1:AA:703:G:OP1	2.12	0.49
1:AA:775:G:OP2	28:BD:276:LYS:CB	2.61	0.49
1:AA:791:G:H2'	1:AA:792:A:H8	1.69	0.49
1:AA:873:A:H4'	1:AA:874:G:OP2	2.10	0.49
1:AA:586:C:H1'	1:AA:878:G:O2'	2.11	0.49
1:AA:898:G:O6	1:AA:902:G:O6	2.30	0.49
1:AA:919:A:C2	1:AA:920:U:C4	3.00	0.49
1:AA:9:G:C2	1:AA:26:A:C2	3.00	0.49
5:AE:68:ILE:CB	5:AE:70:PHE:CZ	2.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:79:ASP:HA	5:AE:82:ARG:CB	2.42	0.49
6:AF:11:ARG:NH1	6:AF:11:ARG:HB3	2.27	0.49
8:AH:42:GLY:HA3	8:AH:66:MET:SD	2.52	0.49
9:AI:22:GLU:HA	9:AI:25:ILE:CD1	2.23	0.49
9:AI:41:GLU:CB	9:AI:62:TRP:HE3	2.24	0.49
11:AK:12:ARG:NH1	11:AK:26:VAL:HA	2.25	0.49
13:AM:26:ALA:HB1	13:AM:84:GLN:CD	2.33	0.49
13:AM:79:ARG:NH1	13:AM:79:ARG:C	2.64	0.49
1:AA:691:G:O6	14:AN:55:LYS:CG	2.60	0.49
16:AP:97:PRO:CD	16:AP:110:ARG:HG2	2.41	0.49
17:AQ:42:ILE:O	17:AQ:43:CYS:C	2.51	0.49
18:AR:3:ILE:HA	18:AR:38:ARG:NH2	2.27	0.49
19:AS:19:ILE:HD11	19:AS:38:TYR:C	2.31	0.49
50:B2:11:SER:H	50:B2:12:PRO:HD3	1.76	0.49
50:B2:53:LEU:N	50:B2:53:LEU:HD23	2.27	0.49
51:B3:49:PHE:O	51:B3:49:PHE:CD2	2.65	0.49
53:B5:22:ALA:HB2	53:B5:39:TYR:CD2	2.48	0.49
25:BA:2286:A:H1'	53:B5:37:ARG:HH21	1.77	0.49
54:B6:42:LEU:O	54:B6:45:ALA:HB3	2.11	0.49
55:B7:34:TRP:HA	55:B7:34:TRP:HE3	1.76	0.49
56:B8:6:SER:HB3	56:B8:8:LYS:HE3	1.93	0.49
25:BA:1028:A:C2	25:BA:1029:A:C5	3.01	0.49
25:BA:1140:C:C2'	25:BA:1141:U:OP2	2.60	0.49
25:BA:1163:G:O2'	25:BA:1164:G:H5'	2.12	0.49
25:BA:1404:C:H2'	25:BA:1405:U:C5'	2.43	0.49
25:BA:1456:G:N1	25:BA:2703:C:N4	2.47	0.49
25:BA:1536:A:H2'	25:BA:1537:C:C5	2.46	0.49
25:BA:154:G:C2	25:BA:155:C:N3	2.80	0.49
25:BA:1557:C:C4	25:BA:1558:A:N7	2.81	0.49
25:BA:1617:C:C2'	25:BA:1617:C:O2	2.61	0.49
25:BA:1620:G:C2'	25:BA:1621:U:O5'	2.60	0.49
25:BA:1650:G:C6	25:BA:2008:C:N3	2.80	0.49
25:BA:1672:C:C2'	25:BA:1673:U:C5'	2.69	0.49
25:BA:161:U:N3	25:BA:172:C:O2	2.40	0.49
25:BA:1731:G:C2'	25:BA:1732:A:OP2	2.58	0.49
25:BA:181:A:C6	25:BA:182:A:N6	2.80	0.49
25:BA:1906:G:N1	25:BA:1907:G:C5	2.80	0.49
25:BA:1912:A:H8	25:BA:1913:A:H1'	1.77	0.49
25:BA:1915:U:H3'	25:BA:1915:U:OP2	2.12	0.49
25:BA:1946:U:C2'	25:BA:1947:C:O5'	2.61	0.49
25:BA:1952:A:C2	36:BN:22:ILE:HG23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1967:C:N3	25:BA:1968:G:C2	2.80	0.49
25:BA:1985:G:C2	25:BA:1986:A:C8	3.01	0.49
25:BA:1996:C:C2	25:BA:1997:G:C4'	2.96	0.49
25:BA:2014:A:C2	25:BA:2015:A:N1	2.81	0.49
25:BA:2028:U:O4	25:BA:2033:A:OP1	2.30	0.49
25:BA:2115:G:H5''	25:BA:2116:G:OP2	2.12	0.49
25:BA:2404:C:C2	25:BA:2405:G:C8	2.99	0.49
25:BA:411:G:N1	25:BA:2407:G:N7	2.61	0.49
25:BA:2478:A:C8	25:BA:2479:G:C8	3.00	0.49
25:BA:197:A:H61	25:BA:248:G:H22	1.20	0.49
25:BA:2665:A:O2'	25:BA:2666:C:C5'	2.61	0.49
25:BA:270(W):G:H2'	25:BA:270(X):G:O4'	2.12	0.49
25:BA:2794:C:N3	25:BA:2799:A:C2	2.80	0.49
25:BA:2815:C:O2	25:BA:2816:C:C6	2.66	0.49
25:BA:331:A:O2'	25:BA:332:A:OP1	2.23	0.49
25:BA:361:G:H2'	25:BA:362:U:H6	1.77	0.49
25:BA:475:U:C2'	25:BA:475:U:O2	2.54	0.49
25:BA:531:C:O4'	25:BA:532:A:C2	2.65	0.49
25:BA:535:C:H5'	42:BT:49:HIS:CB	2.36	0.49
25:BA:611:C:C2'	25:BA:611:C:O2	2.57	0.49
25:BA:659:C:H2'	25:BA:660:G:H8	1.77	0.49
25:BA:685:A:C4'	25:BA:688:U:O4	2.61	0.49
25:BA:701:G:H2'	25:BA:702:G:H8	1.76	0.49
25:BA:724:U:H2'	25:BA:725:G:C5'	2.42	0.49
25:BA:72:U:C5	25:BA:112:U:O2	2.65	0.49
25:BA:748:G:C8	25:BA:750:A:C5	3.01	0.49
25:BA:595:C:H1'	25:BA:939:G:H4'	1.94	0.49
25:BA:973:A:H4'	25:BA:974:G:OP1	2.11	0.49
26:BB:44:G:O2'	26:BB:45:A:H5'	2.12	0.49
27:BC:180:PHE:CE2	27:BC:184:LYS:HD3	2.47	0.49
28:BD:159:ALA:O	28:BD:161:THR:N	2.41	0.49
28:BD:16:MET:O	28:BD:17:THR:O	2.31	0.49
28:BD:75:ILE:HG22	28:BD:97:TYR:CD1	2.48	0.49
29:BE:107:THR:O	29:BE:190:GLY:CA	2.55	0.49
29:BE:11:MET:O	29:BE:22:PRO:CD	2.36	0.49
29:BE:151:TYR:HD1	29:BE:154:LYS:HG3	1.77	0.49
29:BE:50:GLY:HA3	29:BE:76:ARG:NE	2.25	0.49
29:BE:2:LYS:HZ3	29:BE:80:GLU:CD	2.15	0.49
29:BE:2:LYS:NZ	29:BE:80:GLU:CG	2.75	0.49
30:BF:110:LEU:HD23	30:BF:186:ILE:CD1	2.42	0.49
30:BF:135:LYS:NZ	30:BF:137:LYS:HB2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:205:ARG:O	30:BF:208:GLY:HA3	2.12	0.49
25:BA:1248:G:C2	30:BF:52:LYS:NZ	2.79	0.49
30:BF:53:THR:C	30:BF:55:GLY:N	2.65	0.49
31:BG:68:PRO:CB	31:BG:72:ARG:HH12	2.05	0.49
32:BH:117:PRO:HD3	32:BH:123:PHE:HZ	1.76	0.49
32:BH:73:ALA:HA	32:BH:76:VAL:HG13	1.94	0.49
35:BM:34:LEU:O	35:BM:116:LEU:HD11	2.13	0.49
35:BM:39:ARG:N	35:BM:42:TRP:CE3	2.80	0.49
35:BM:66:LYS:CA	35:BM:69:GLN:OE1	2.59	0.49
37:BO:110:TYR:O	37:BO:111:ARG:HB3	2.13	0.49
37:BO:28:GLY:C	37:BO:29:LYS:HG3	2.32	0.49
38:BP:69:PHE:CE1	38:BP:70:PRO:HD2	2.47	0.49
39:BQ:72:ASP:O	39:BQ:76:VAL:CB	2.58	0.49
39:BQ:85:PRO:O	39:BQ:87:TYR:N	2.46	0.49
40:BR:11:LYS:CG	40:BR:15:ARG:NH2	2.76	0.49
41:BS:2:ASN:O	41:BS:6:LEU:HD22	2.13	0.49
41:BS:6:LEU:HD22	41:BS:6:LEU:N	2.27	0.49
41:BS:35:LYS:HG3	41:BS:86:ILE:HG13	1.94	0.49
43:BU:4:ILE:CD1	43:BU:44:LYS:NZ	2.72	0.49
44:BV:34:ASN:H	44:BV:34:ASN:HD22	1.58	0.49
45:BW:16:LYS:CE	45:BW:16:LYS:H	2.23	0.49
46:BX:74:PRO:HB2	46:BX:100:ALA:CB	2.41	0.49
47:BY:109:ALA:C	47:BY:144:LEU:HB2	2.32	0.49
47:BY:24:LEU:CD2	47:BY:25:PRO:HD2	2.37	0.49
47:BY:2:GLU:C	47:BY:3:TYR:CG	2.84	0.49
47:BY:60:GLU:C	47:BY:62:PRO:HD3	2.33	0.49
47:BY:7:ALA:HB2	47:BY:38:TYR:CD2	2.46	0.49
34:BL:77:LEU:HD12	34:BL:111:LYS:HE3	1.93	0.49
47:BY:179:ASP:O	47:BY:180:VAL:CG2	2.59	0.49
25:BA:846:C:C1'	25:BA:847:U:H3	2.24	0.49
1:AA:1028(B):C:C4	1:AA:1029:G:N7	2.81	0.49
1:AA:848:C:C2	1:AA:849:C:C6	3.00	0.49
1:AA:86:U:C3'	1:AA:87:A:H5'	2.43	0.49
1:AA:1072:G:C2	1:AA:1104:G:C2	3.01	0.49
1:AA:1229:A:O2'	1:AA:1230:C:O4'	2.31	0.49
1:AA:1293:G:H2'	1:AA:1294:G:C8	2.48	0.49
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.78	0.49
1:AA:1304:G:H1	1:AA:1332:A:P	2.35	0.49
1:AA:1361:G:H3'	1:AA:1361:G:C8	2.47	0.49
1:AA:1521:G:O2'	1:AA:1522:U:C5'	2.60	0.49
1:AA:232:G:C5	1:AA:233:C:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:246:A:C4	1:AA:282:A:N6	2.80	0.49
1:AA:342:C:H2'	1:AA:343:U:C6	2.47	0.49
1:AA:344:A:HO2'	1:AA:345:C:P	2.34	0.49
1:AA:356:A:H2'	1:AA:357:G:O4'	2.13	0.49
1:AA:432:A:N7	1:AA:433:C:N1	2.59	0.49
1:AA:559:A:O2'	1:AA:560:U:P	2.70	0.49
1:AA:599:C:H4'	11:AK:130:GLY:C	2.33	0.49
1:AA:740:U:O2	1:AA:741:G:C8	2.66	0.49
1:AA:740:U:O2'	1:AA:741:G:H5'	2.12	0.49
1:AA:745:C:C5'	1:AA:851:G:N3	2.72	0.49
2:AC:65:C:C2	2:AC:66:C:C5	3.00	0.49
5:AE:119:GLU:O	5:AE:120:ALA:O	2.30	0.49
5:AE:31:TYR:HE2	5:AE:200:ILE:HG21	1.72	0.49
5:AE:91:PRO:CD	5:AE:155:LEU:HD23	2.43	0.49
7:AG:14:ARG:CD	7:AG:15:GLU:N	2.75	0.49
7:AG:34:GLU:CD	7:AG:35:ARG:N	2.66	0.49
7:AG:57:ARG:NH2	8:AH:107:ARG:NE	2.41	0.49
7:AG:83:SER:CA	7:AG:89:THR:CG2	2.90	0.49
8:AH:120:THR:O	8:AH:120:THR:CG2	2.60	0.49
8:AH:89:ILE:HG21	8:AH:135:THR:HA	1.93	0.49
8:AH:76:ILE:HG21	8:AH:142:LEU:CD1	2.38	0.49
8:AH:77:PRO:O	8:AH:93:PRO:HG3	2.13	0.49
9:AI:33:TYR:CZ	9:AI:75:LEU:HA	2.48	0.49
9:AI:37:VAL:HG12	9:AI:38:GLU:N	2.28	0.49
9:AI:72:VAL:HG23	9:AI:73:ASN:OD1	2.12	0.49
9:AI:98:LEU:CD2	21:AU:28:GLU:HG2	2.42	0.49
10:AJ:88:PRO:HG2	10:AJ:152:ALA:CB	2.41	0.49
10:AJ:52:GLU:O	10:AJ:54:THR:N	2.45	0.49
10:AJ:74:GLU:OE2	10:AJ:76:ARG:HG3	2.13	0.49
10:AJ:95:ARG:O	10:AJ:96:GLN:C	2.50	0.49
11:AK:111:ILE:CD1	11:AK:111:ILE:N	2.65	0.49
12:AL:103:THR:CG2	12:AL:104:ARG:N	2.75	0.49
12:AL:5:TYR:CZ	12:AL:16:ARG:HG3	2.46	0.49
1:AA:1250:A:H4'	12:AL:67:GLY:HA2	1.94	0.49
15:AO:117:ARG:HH21	15:AO:124:LYS:CA	2.06	0.49
17:AQ:55:GLY:O	17:AQ:56:VAL:C	2.48	0.49
18:AR:57:LEU:O	18:AR:60:VAL:N	2.45	0.49
18:AR:60:VAL:O	18:AR:63:ARG:HG3	2.11	0.49
18:AR:70:LEU:C	18:AR:70:LEU:CD1	2.78	0.49
19:AS:43:LYS:CG	19:AS:48:TRP:CZ3	2.90	0.49
1:AA:760:G:H22	20:AT:104:LYS:HB3	1.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:12:SER:OG	20:AT:12:SER:O	2.27	0.49
20:AT:65:ILE:CG2	20:AT:69:LYS:O	2.61	0.49
20:AT:8:GLY:O	20:AT:56:VAL:CA	2.60	0.49
24:AX:9:ARG:HD2	24:AX:9:ARG:N	2.26	0.49
49:B1:11:LEU:N	49:B1:11:LEU:CD1	2.75	0.49
49:B1:4:GLN:HE22	49:B1:7:GLU:CB	2.23	0.49
50:B2:37:LEU:CD1	50:B2:43:ILE:HB	2.41	0.49
44:BV:23:LEU:HD11	52:B4:27:PRO:CA	2.43	0.49
53:B5:19:ARG:O	53:B5:19:ARG:NH1	2.45	0.49
25:BA:2286:A:H8	53:B5:31:PRO:HD2	1.76	0.49
53:B5:15:GLU:HB3	53:B5:53:LYS:HB2	1.94	0.49
54:B6:22:MET:O	54:B6:28:ARG:HG3	2.11	0.49
55:B7:34:TRP:C	55:B7:36:LYS:HB2	2.32	0.49
25:BA:1009:A:N1	25:BA:1010:A:C2	2.81	0.49
25:BA:98:G:N2	25:BA:103:A:C2	2.81	0.49
25:BA:1204:A:N6	30:BF:187:VAL:HG23	2.27	0.49
25:BA:1205:U:C2	25:BA:1207:C:N4	2.81	0.49
25:BA:1300:U:P	25:BA:1300:U:C6	3.06	0.49
25:BA:1365:A:C4	25:BA:1366:A:C8	3.01	0.49
25:BA:1488:G:C6	25:BA:1489:U:C1'	2.96	0.49
25:BA:1518:C:N3	25:BA:1519:G:H1'	2.27	0.49
25:BA:1540:G:C2'	25:BA:1541:U:H5'	2.43	0.49
25:BA:1545(A):A:H2'	25:BA:1546:C:C5'	2.41	0.49
25:BA:1547:C:O2	25:BA:1547:C:H2'	2.11	0.49
25:BA:1779:U:H1'	25:BA:1783:A:N6	2.25	0.49
25:BA:1814:G:C4	25:BA:1815:A:N7	2.80	0.49
25:BA:1955:U:O3'	25:BA:1956:U:C5	2.65	0.49
25:BA:197:A:H5''	25:BA:2068:U:N3	2.27	0.49
25:BA:2027:G:C2'	25:BA:2028:U:O4'	2.60	0.49
25:BA:2033:A:O2'	25:BA:2034:U:OP1	2.31	0.49
25:BA:2058:A:C2	25:BA:2059:A:N6	2.80	0.49
25:BA:2183:C:H2'	25:BA:2184:G:H8	1.77	0.49
25:BA:2468:G:O2'	25:BA:2469:A:C5'	2.49	0.49
25:BA:247:G:N7	25:BA:249:C:O2	2.44	0.49
25:BA:251:A:C4	25:BA:252:G:H1'	2.47	0.49
25:BA:2577:A:O4'	25:BA:2612:C:N4	2.46	0.49
25:BA:270(C):C:OP1	25:BA:365:C:H2'	2.13	0.49
25:BA:2721:A:H2'	25:BA:2722:G:C8	2.47	0.49
25:BA:2681:C:C4	25:BA:2725:A:N6	2.77	0.49
25:BA:272:G:C6	25:BA:273:G:C5	3.01	0.49
25:BA:2761:G:H2'	25:BA:2762:G:O5'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2781:A:N1	25:BA:2782:G:C2	2.80	0.49
25:BA:2810:A:H1'	29:BE:61:ARG:HH22	1.77	0.49
25:BA:2884:U:H2'	25:BA:2885:C:O4'	2.11	0.49
25:BA:297:C:N4	25:BA:298:G:C2	2.80	0.49
25:BA:354:G:O2'	25:BA:355:G:C5'	2.60	0.49
25:BA:247:G:O3'	25:BA:386:G:N2	2.45	0.49
25:BA:568:U:O4	25:BA:571:A:OP1	2.30	0.49
25:BA:715:G:C6	25:BA:716:A:N6	2.80	0.49
25:BA:823:G:C2	25:BA:835:A:C4	3.01	0.49
25:BA:828:U:C5	25:BA:829:A:N6	2.81	0.49
25:BA:94:G:N2	25:BA:95:G:C4	2.80	0.49
25:BA:950:G:C6	25:BA:968:G:C6	3.00	0.49
25:BA:969:U:N3	25:BA:970:C:C5	2.80	0.49
26:BB:33:G:C2	26:BB:34:U:C2	3.01	0.49
27:BC:127:LEU:HB3	27:BC:131:LEU:CD1	2.42	0.49
27:BC:190:ARG:O	27:BC:191:ALA:C	2.51	0.49
27:BC:47:LEU:HD23	27:BC:47:LEU:H	1.77	0.49
28:BD:105:ILE:CD1	28:BD:106:ILE:CG1	2.90	0.49
28:BD:142:VAL:HG23	28:BD:163:ALA:CB	2.43	0.49
28:BD:172:TYR:HA	28:BD:186:HIS:HA	1.94	0.49
28:BD:161:THR:N	28:BD:196:VAL:CG2	2.75	0.49
25:BA:763:G:O3'	28:BD:211:ARG:HD2	2.13	0.49
28:BD:246:PRO:CG	28:BD:252:TRP:CE3	2.94	0.49
28:BD:63:ARG:NH1	28:BD:63:ARG:HB2	2.27	0.49
29:BE:116:VAL:HG12	29:BE:120:TRP:CD1	2.47	0.49
29:BE:49:LEU:CD1	29:BE:74:PRO:CB	2.87	0.49
30:BF:197:ASP:CB	30:BF:201:VAL:HG23	2.40	0.49
31:BG:30:GLU:HA	31:BG:33:ARG:HB3	1.93	0.49
36:BN:52:VAL:O	36:BN:53:LYS:CG	2.59	0.49
36:BN:7:TYR:HB3	36:BN:18:LYS:HZ2	1.77	0.49
25:BA:623:G:OP2	37:BO:105:LEU:HD21	2.12	0.49
38:BP:32:TYR:CZ	38:BP:106:VAL:HG23	2.47	0.49
38:BP:54:MET:SD	38:BP:121:ALA:HB2	2.51	0.49
39:BQ:35:THR:HA	39:BQ:112:ALA:O	2.12	0.49
39:BQ:87:TYR:CD2	39:BQ:87:TYR:N	2.79	0.49
39:BQ:87:TYR:CD1	39:BQ:94:TYR:HB3	2.47	0.49
40:BR:91:PRO:O	40:BR:92:TYR:HB2	2.13	0.49
41:BS:112:ARG:O	41:BS:115:ARG:N	2.46	0.49
41:BS:52:ILE:HG22	41:BS:52:ILE:O	2.12	0.49
43:BU:17:GLY:HA3	43:BU:19:LYS:HZ2	1.74	0.49
43:BU:1:MET:H2	43:BU:44:LYS:HB3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:70:TYR:C	44:BV:107:LEU:HD12	2.33	0.49
44:BV:88:ARG:HA	44:BV:88:ARG:HE	1.73	0.49
45:BW:21:PHE:CD2	45:BW:21:PHE:N	2.78	0.49
45:BW:29:TRP:CE3	45:BW:76:ARG:CD	2.93	0.49
46:BX:107:ASP:O	46:BX:109:GLU:N	2.39	0.49
47:BY:155:LEU:O	47:BY:156:LYS:CB	2.61	0.49
26:BB:76:G:C4'	47:BY:85:HIS:HD1	2.24	0.49
25:BA:1057:A:N3	25:BA:1058:G:C8	2.80	0.49
25:BA:1077:A:N6	25:BA:1089:G:OP2	2.45	0.49
34:BL:54:PRO:HG2	34:BL:70:LYS:O	2.13	0.49
25:BA:189:G:N2	25:BA:208:C:N4	2.61	0.49
46:BX:86:ARG:C	46:BX:88:LYS:H	2.16	0.49
1:AA:1001:G:H2'	1:AA:1002:G:C4'	2.42	0.49
1:AA:1002:G:N2	1:AA:1039:C:C4	2.81	0.49
1:AA:1005:A:N3	1:AA:1005:A:H2'	2.27	0.49
1:AA:849:C:H2'	1:AA:850:U:C6	2.47	0.49
52:B4:28:PRO:O	52:B4:30:LEU:HD11	2.13	0.49
1:AA:1133:G:C6	1:AA:1134:G:N7	2.81	0.49
1:AA:1147:C:N3	1:AA:1148:U:C4	2.80	0.49
1:AA:1476:G:C6	1:AA:1477:C:N4	2.80	0.49
1:AA:1517:G:C6	1:AA:1518:A:C2	3.00	0.49
1:AA:928:G:C3'	1:AA:1533:C:H1'	2.42	0.49
1:AA:160:A:N6	1:AA:161:A:N1	2.61	0.49
1:AA:145:G:N1	1:AA:178:C:C4	2.81	0.49
1:AA:138:G:C6	1:AA:226:G:C5	3.01	0.49
1:AA:329:A:C4	1:AA:332:G:C6	3.00	0.49
1:AA:34:C:C1'	15:AO:32:PHE:HE2	2.26	0.49
1:AA:407:G:OP1	7:AG:115:ARG:CD	2.60	0.49
1:AA:791:G:OP2	1:AA:791:G:H3'	2.13	0.49
1:AA:818:G:O2'	1:AA:819:A:P	2.70	0.49
1:AA:571:U:H4'	1:AA:819:A:H62	1.77	0.49
1:AA:907:A:C4	1:AA:908:A:C8	3.00	0.49
1:AA:918:A:O2'	1:AA:919:A:OP1	2.31	0.49
1:AA:922:G:N3	1:AA:1398:A:H2	2.09	0.49
1:AA:947:G:H2'	1:AA:948:C:C6	2.44	0.49
1:AA:961:U:H5	1:AA:983:A:C4	2.23	0.49
1:AA:951:G:H1'	1:AA:970:C:O2'	2.12	0.49
2:AC:16:C:O3'	2:AC:18:G:H5''	2.13	0.49
2:AC:48:C:O2	2:AC:48:C:C2'	2.61	0.49
5:AE:109:SER:O	5:AE:112:VAL:N	2.45	0.49
5:AE:19:HIS:CD2	5:AE:204:ASN:ND2	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:50:GLU:O	5:AE:51:LEU:C	2.50	0.49
5:AE:91:PRO:HG2	5:AE:155:LEU:CD2	2.39	0.49
6:AF:12:LEU:HD22	17:AQ:57:ARG:HG3	1.95	0.49
6:AF:145:GLY:O	6:AF:146:ALA:CB	2.59	0.49
6:AF:182:ILE:CG2	6:AF:202:ILE:O	2.59	0.49
6:AF:182:ILE:CG1	6:AF:203:PHE:HD1	2.22	0.49
7:AG:115:ARG:O	7:AG:116:GLN:C	2.51	0.49
7:AG:191:ARG:NE	7:AG:191:ARG:CA	2.75	0.49
7:AG:200:GLU:O	7:AG:203:VAL:N	2.45	0.49
7:AG:43:HIS:O	7:AG:45:GLN:N	2.46	0.49
11:AK:109:ILE:HG12	11:AK:137:VAL:O	2.11	0.49
11:AK:35:ILE:HD11	11:AK:134:ILE:HD13	1.95	0.49
12:AL:21:PRO:HA	12:AL:59:PHE:CE1	2.48	0.49
13:AM:10:GLY:HA3	13:AM:94:VAL:HG22	1.94	0.49
13:AM:28:ARG:HG2	13:AM:28:ARG:NH1	2.28	0.49
13:AM:28:ARG:HG2	13:AM:28:ARG:HH11	1.78	0.49
17:AQ:4:LYS:O	17:AQ:6:LEU:N	2.45	0.49
18:AR:18:PHE:CE1	18:AR:21:ASP:N	2.81	0.49
1:AA:579:G:O2'	18:AR:58:MET:CE	2.60	0.49
9:AI:91:VAL:HG13	21:AU:72:ARG:NH2	2.28	0.49
23:AW:73:HIS:H	23:AW:76:ALA:HB3	1.78	0.49
1:AA:1244:C:OP2	24:AX:9:ARG:HB2	2.13	0.49
49:B1:16:LEU:O	49:B1:20:VAL:HG12	2.12	0.49
49:B1:56:LEU:O	49:B1:57:THR:C	2.50	0.49
54:B6:11:LYS:HG3	54:B6:12:ARG:N	2.27	0.49
25:BA:1024:G:OP2	25:BA:1026:U:OP1	2.31	0.49
25:BA:1131:G:C2	35:BM:72:TYR:OH	2.65	0.49
25:BA:1189:A:H2'	25:BA:1190:G:H5'	1.93	0.49
25:BA:443:A:C4'	25:BA:1201:C:H5'	2.43	0.49
25:BA:1228:G:C6	25:BA:1229:G:C5	3.01	0.49
25:BA:1332:G:C8	25:BA:1609:A:N6	2.81	0.49
25:BA:1341:U:H5''	25:BA:1342:A:N7	2.28	0.49
25:BA:1409:C:H2'	25:BA:1410:G:O4'	2.12	0.49
25:BA:1491:G:N2	25:BA:1493:C:H5	2.09	0.49
25:BA:1550:C:N3	25:BA:1551:C:C5	2.80	0.49
25:BA:154:G:N2	25:BA:155:C:C2	2.80	0.49
25:BA:1773:A:H2'	25:BA:1774:C:C4'	2.42	0.49
25:BA:739:G:O2'	25:BA:1784:A:C6	2.55	0.49
25:BA:1936:A:O4'	25:BA:1940:U:C4	2.66	0.49
25:BA:1977:A:C2	25:BA:1978:A:C4	3.01	0.49
25:BA:1987:G:H2'	25:BA:1988:C:C5	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1996:C:H6	25:BA:1996:C:C4'	2.25	0.49
25:BA:2039:C:H2'	25:BA:2040:C:H6	1.76	0.49
25:BA:2052:G:H1'	29:BE:149:ARG:O	2.08	0.49
25:BA:2075:U:O2	25:BA:2077:A:OP2	2.31	0.49
25:BA:2094:G:H22	25:BA:2196:C:H1'	1.73	0.49
25:BA:2157:G:N2	25:BA:2157:G:OP2	2.46	0.49
25:BA:2158:A:O2'	25:BA:2159:G:O5'	2.30	0.49
25:BA:2249:U:C2'	25:BA:2250:G:OP1	2.60	0.49
25:BA:2283:C:C4	25:BA:2389:G:N2	2.81	0.49
25:BA:2332:U:O4'	25:BA:2336:A:N6	2.45	0.49
25:BA:2290:G:H21	25:BA:2374:C:C4'	2.25	0.49
25:BA:2455:G:N3	25:BA:2456:C:C5	2.81	0.49
25:BA:2461:C:H2'	25:BA:2462:U:H6	1.77	0.49
25:BA:2472:G:C4	25:BA:2475:C:C4	3.01	0.49
25:BA:2521:C:C2'	25:BA:2522:U:O5'	2.61	0.49
25:BA:244:A:C2	25:BA:255:A:C8	2.99	0.49
25:BA:258:G:O5'	25:BA:258:G:C8	2.61	0.49
25:BA:2599:G:C2'	25:BA:2600:A:O4'	2.60	0.49
25:BA:271(A):C:C2	25:BA:271(B):G:N7	2.81	0.49
25:BA:2763:G:H8	25:BA:2763:G:O5'	1.96	0.49
25:BA:2845:G:C2'	25:BA:2846:G:O4'	2.60	0.49
25:BA:29:U:H6	25:BA:29:U:OP2	1.95	0.49
25:BA:325:G:H2'	25:BA:326:G:C8	2.48	0.49
25:BA:363(B):G:O2'	25:BA:363(C):G:O5'	2.30	0.49
25:BA:411:G:H5'	25:BA:2407:G:P	2.53	0.49
25:BA:416:C:C5	25:BA:417:C:C5	3.00	0.49
25:BA:47:C:C4	25:BA:179:G:C6	3.00	0.49
25:BA:566:U:C6	25:BA:567:A:N7	2.81	0.49
25:BA:634:C:O2'	25:BA:635:C:H5'	2.12	0.49
25:BA:663:G:O2'	25:BA:940:G:C4'	2.59	0.49
18:AR:56:LEU:HD21	25:BA:715:G:H21	1.76	0.49
25:BA:743:G:N1	25:BA:755:C:C2	2.81	0.49
25:BA:835:A:C5'	25:BA:2358:G:H1'	2.41	0.49
25:BA:91:A:H3'	25:BA:92:G:N7	2.28	0.49
25:BA:958:U:C2'	25:BA:959:A:OP2	2.60	0.49
25:BA:960:A:H2	25:BA:2496:C:HO2'	1.58	0.49
25:BA:991:C:OP2	25:BA:1186:G:OP2	2.30	0.49
26:BB:70:C:O2	26:BB:71:C:C6	2.66	0.49
27:BC:4:GLY:C	27:BC:5:LYS:CD	2.79	0.49
28:BD:78:LYS:CD	28:BD:114:GLY:O	2.60	0.49
28:BD:78:LYS:CG	28:BD:114:GLY:O	2.57	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:247:ALA:O	28:BD:248:SER:HB2	2.12	0.49
28:BD:29:PRO:CG	28:BD:83:GLU:HA	2.43	0.49
29:BE:94:GLU:C	29:BE:96:PHE:N	2.65	0.49
31:BG:34:LEU:HD12	31:BG:100:TRP:HZ2	1.77	0.49
31:BG:123:ASN:HB2	31:BG:126:ASP:OD2	2.11	0.49
31:BG:163:ALA:O	31:BG:164:GLU:O	2.31	0.49
32:BH:116:GLU:HG2	32:BH:116:GLU:O	2.12	0.49
32:BH:153:LYS:CB	32:BH:154:PRO:CD	2.90	0.49
32:BH:13:LYS:NZ	32:BH:79:VAL:O	2.45	0.49
33:BK:3:VAL:CG1	33:BK:31:LEU:HD11	2.42	0.49
35:BM:37:LYS:HA	35:BM:42:TRP:HB2	1.95	0.49
36:BN:97:ARG:CD	36:BN:117:LEU:HD21	2.39	0.49
37:BO:72:PRO:HB2	37:BO:111:ARG:CD	2.43	0.49
37:BO:49:ARG:CG	55:B7:52:LYS:HD3	2.42	0.49
38:BP:64:ILE:CB	38:BP:105:GLU:HB3	2.42	0.49
38:BP:75:THR:CG2	38:BP:77:LYS:CG	2.89	0.49
39:BQ:65:LEU:O	39:BQ:66:VAL:C	2.46	0.49
40:BR:49:VAL:HG22	40:BR:76:LYS:NZ	2.16	0.49
40:BR:37:ALA:C	40:BR:51:ALA:HB2	2.27	0.49
40:BR:67:ARG:HE	40:BR:71:ARG:CG	2.26	0.49
41:BS:109:GLU:O	41:BS:113:LYS:HB2	2.11	0.49
41:BS:27:THR:HB	41:BS:95:ARG:H	1.77	0.49
45:BW:17:ALA:HA	45:BW:27:THR:HG21	1.94	0.49
47:BY:68:PRO:CB	47:BY:131:ARG:NH1	2.75	0.49
48:BZ:72:ARG:HB2	48:BZ:78:TYR:HD1	1.77	0.49
25:BA:1058:G:N3	34:BL:116:ASN:ND2	2.61	0.49
25:BA:1083:U:O2'	25:BA:1084:A:H5''	2.12	0.49
34:BL:102:GLU:O	34:BL:103:GLN:C	2.51	0.49
34:BL:58:THR:O	34:BL:65:PHE:HA	2.11	0.49
46:BX:88:LYS:HB3	46:BX:91:GLU:OE2	2.13	0.49
1:AA:1031:G:O2'	1:AA:1032:A:H5'	2.13	0.49
1:AA:1051:C:O2'	1:AA:1052:U:H5'	2.12	0.49
44:BV:81:ALA:HB1	44:BV:97:LYS:HB2	1.94	0.49
1:AA:1054:C:OP2	1:AA:1196:U:O3'	2.31	0.49
1:AA:946:A:N6	1:AA:1236:A:C6	2.81	0.49
1:AA:1378:C:N3	1:AA:1379:G:C1'	2.73	0.49
1:AA:1518:A:C2	1:AA:1519:A:C2	3.01	0.49
1:AA:186(D):C:H2'	1:AA:186(E):C:C6	2.44	0.49
1:AA:339:C:C2'	1:AA:340:U:O5'	2.60	0.49
1:AA:46:G:C2	1:AA:366:C:C2	3.01	0.49
1:AA:510:A:H1'	1:AA:543:C:H1'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:512:U:C2	1:AA:513:C:C5	3.01	0.49
1:AA:126:G:H4'	1:AA:634:C:O2	2.13	0.49
1:AA:659:U:C2	1:AA:660:G:C8	3.01	0.49
1:AA:821:G:O2'	1:AA:822:C:H5'	2.12	0.49
1:AA:978:A:O2'	1:AA:979:C:H5'	2.12	0.49
2:AC:16:C:H4'	2:AC:18:G:H5''	1.95	0.49
1:AA:1340:A:H4'	2:AC:31:G:O2'	2.13	0.49
2:AC:44:A:H2'	2:AC:45:G:C5'	2.43	0.49
2:AC:58:A:C6	2:AC:61:C:C6	3.01	0.49
2:AC:75:C:H5	2:AC:76:A:HO2'	1.50	0.49
5:AE:179:LYS:O	5:AE:181:PHE:N	2.46	0.49
5:AE:50:GLU:OE2	5:AE:200:ILE:HB	2.12	0.49
1:AA:1057:G:H4'	6:AF:197:GLY:N	2.27	0.49
7:AG:162:LEU:HD13	7:AG:181:MET:CB	2.42	0.49
7:AG:185:PHE:HD2	7:AG:186:LEU:H	1.61	0.49
8:AH:61:TYR:HA	8:AH:64:ARG:CG	2.40	0.49
9:AI:80:ARG:O	9:AI:81:ILE:O	2.30	0.49
1:AA:674:G:OP1	9:AI:87:ARG:NH2	2.45	0.49
10:AJ:138:LYS:O	10:AJ:139:GLU:C	2.51	0.49
11:AK:61:VAL:CG1	11:AK:62:TYR:N	2.75	0.49
12:AL:19:LEU:CD2	12:AL:59:PHE:HB3	2.42	0.49
12:AL:38:GLN:C	12:AL:40:LEU:H	2.16	0.49
13:AM:25:GLU:O	13:AM:28:ARG:HB2	2.13	0.49
13:AM:34:VAL:HG22	13:AM:74:ILE:CD1	2.43	0.49
14:AN:20:TYR:CE2	14:AN:83:ILE:HG21	2.48	0.49
1:AA:528:C:C4	15:AO:49:ASN:ND2	2.81	0.49
1:AA:1358:U:C5'	17:AQ:34:TYR:HB3	2.41	0.49
17:AQ:39:LEU:HD12	17:AQ:44:LEU:HB2	1.93	0.49
18:AR:59:MET:O	18:AR:62:GLN:HB3	2.13	0.49
19:AS:51:VAL:HG12	19:AS:74:LEU:CD2	2.42	0.49
20:AT:9:VAL:HG22	20:AT:10:VAL:O	2.12	0.49
20:AT:32:TYR:O	20:AT:34:LYS:N	2.45	0.49
23:AW:72:LEU:CD2	23:AW:77:ALA:N	2.76	0.49
49:B1:36:ILE:CG1	49:B1:37:GLY:H	2.17	0.49
50:B2:11:SER:N	50:B2:12:PRO:HD2	2.27	0.49
51:B3:21:VAL:HG12	51:B3:22:ILE:H	1.78	0.49
51:B3:58:ARG:N	51:B3:61:ARG:HH11	2.09	0.49
52:B4:60:VAL:O	52:B4:60:VAL:HG13	2.12	0.49
53:B5:51:GLU:OE1	53:B5:52:VAL:N	2.46	0.49
56:B8:3:VAL:HG12	56:B8:5:ALA:O	2.13	0.49
56:B8:9:ARG:C	56:B8:10:ILE:HG13	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1029:A:H2'	25:BA:1030:G:O4'	2.11	0.49
25:BA:107:C:O2'	25:BA:108:U:C5'	2.61	0.49
25:BA:1234:U:C4	25:BA:1235:G:C2	3.00	0.49
25:BA:1271:G:C2'	25:BA:1618:A:OP1	2.58	0.49
25:BA:1293:C:N3	25:BA:1294:U:C5	2.80	0.49
25:BA:1423:G:C4	25:BA:1424:G:C8	3.01	0.49
25:BA:1435:G:N1	25:BA:1558:A:N6	2.60	0.49
25:BA:1525:G:N3	25:BA:1526:G:C8	2.80	0.49
25:BA:1527:G:C2'	25:BA:1528:A:N3	2.75	0.49
25:BA:1540:G:H2'	25:BA:1541:U:C4'	2.42	0.49
25:BA:1560:G:HO2'	25:BA:1561:G:P	2.35	0.49
25:BA:1619:G:O2'	25:BA:1620:G:H5'	2.12	0.49
25:BA:1782:C:H6	25:BA:1782:C:H3'	1.77	0.49
25:BA:1785:A:H2'	25:BA:1786:A:N6	2.27	0.49
25:BA:1913:A:H2'	25:BA:1916:A:N1	2.28	0.49
25:BA:1958:C:H2'	25:BA:1959:G:H8	1.77	0.49
25:BA:200:U:C3'	25:BA:201:C:H5'	2.43	0.49
25:BA:2013:A:C5	25:BA:2014:A:C5	3.00	0.49
25:BA:571:A:C5	25:BA:2030:A:N6	2.81	0.49
25:BA:2091:U:H5''	33:BK:27:ARG:HH12	1.76	0.49
25:BA:2095:C:C4	25:BA:2096:U:C4	3.00	0.49
25:BA:2159:G:H2'	25:BA:2160:G:H8	1.77	0.49
25:BA:2266:A:N3	25:BA:2272:U:C4	2.81	0.49
25:BA:2277:G:H5''	25:BA:2278:A:OP2	2.12	0.49
25:BA:2285:C:H1'	25:BA:2288:A:C5	2.48	0.49
25:BA:246:C:N4	25:BA:247:G:O6	2.45	0.49
25:BA:2486:G:N2	25:BA:2487:G:N9	2.61	0.49
25:BA:2455:G:C2	25:BA:2498:C:N4	2.81	0.49
25:BA:2582:G:C2'	25:BA:2583:G:H5'	2.43	0.49
25:BA:2606:C:C6	25:BA:2606:C:H3'	2.48	0.49
25:BA:262:A:C2'	25:BA:263:C:O5'	2.61	0.49
25:BA:270(C):C:C2'	25:BA:270(D):C:C6	2.78	0.49
25:BA:2839:G:N2	39:BQ:91:GLN:HG3	2.26	0.49
25:BA:2843:G:C4	25:BA:2844:G:C8	3.01	0.49
25:BA:2873:A:C2'	25:BA:2874:C:O5'	2.60	0.49
25:BA:297:C:C3'	25:BA:298:G:H8	2.24	0.49
25:BA:378:C:O2'	25:BA:379:G:H5'	2.12	0.49
25:BA:388:G:C2'	25:BA:390:A:C5	2.93	0.49
25:BA:400:G:C3'	25:BA:400:G:C8	2.94	0.49
25:BA:417:C:C4	25:BA:418:G:N7	2.81	0.49
25:BA:467:G:H2'	25:BA:468:G:C5'	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:536:A:O2'	25:BA:537:C:H5'	2.12	0.49
25:BA:734:A:C2	25:BA:735:A:C1'	2.95	0.49
25:BA:775:G:C5'	25:BA:777:A:N3	2.76	0.49
25:BA:786:C:H2'	25:BA:787:U:O4'	2.10	0.49
25:BA:824:A:H2'	25:BA:825:C:C6	2.48	0.49
25:BA:836:G:C5	25:BA:837:C:C4	3.01	0.49
25:BA:909:A:C2	25:BA:912:C:C1'	2.95	0.49
25:BA:961:C:C5	25:BA:2031:A:N1	2.81	0.49
25:BA:968:G:C6	25:BA:969:U:C4	3.01	0.49
25:BA:987:G:O2'	25:BA:1000:A:H1'	2.13	0.49
26:BB:9:G:C2	26:BB:10:C:C4	3.00	0.49
27:BC:11:LEU:HD12	27:BC:14:VAL:HB	1.94	0.49
27:BC:190:ARG:HA	27:BC:193:ILE:HG13	1.93	0.49
28:BD:136:ILE:N	28:BD:168:ARG:HH22	2.10	0.49
25:BA:1789:A:P	28:BD:222:ARG:HG2	2.52	0.49
28:BD:244:ARG:N	28:BD:245:PRO:CD	2.67	0.49
28:BD:37:LEU:HD11	28:BD:62:TYR:C	2.33	0.49
28:BD:95:LEU:C	28:BD:95:LEU:HD23	2.33	0.49
29:BE:104:VAL:HG22	29:BE:198:VAL:HG22	1.92	0.49
29:BE:13:ARG:NE	29:BE:20:ALA:O	2.45	0.49
29:BE:79:ARG:CG	29:BE:80:GLU:H	2.25	0.49
30:BF:154:VAL:HB	30:BF:193:VAL:HG23	1.95	0.49
30:BF:155:LEU:CD1	30:BF:186:ILE:HA	2.41	0.49
25:BA:598:G:O2'	30:BF:31:HIS:HE1	1.91	0.49
26:BB:45:A:C1'	31:BG:95:ARG:NH1	2.68	0.49
32:BH:23:ARG:HD2	32:BH:34:GLU:CB	2.39	0.49
35:BM:34:LEU:HD21	35:BM:120:LEU:HB2	1.95	0.49
35:BM:124:ALA:C	35:BM:125:GLY:O	2.48	0.49
35:BM:72:TYR:HE2	35:BM:74:ARG:H	1.58	0.49
37:BO:124:LYS:CB	37:BO:143:GLY:CA	2.81	0.49
37:BO:124:LYS:CD	37:BO:143:GLY:HA3	2.42	0.49
25:BA:2406:U:O2'	37:BO:67:MET:CB	2.60	0.49
37:BO:81:GLN:CD	37:BO:86:LYS:HZ3	2.16	0.49
39:BQ:13:HIS:NE2	39:BQ:15:SER:CB	2.76	0.49
40:BR:40:ILE:HG13	40:BR:47:THR:HA	1.94	0.49
40:BR:73:LEU:O	40:BR:76:LYS:HE2	2.13	0.49
41:BS:21:GLU:CD	41:BS:21:GLU:O	2.50	0.49
42:BT:49:HIS:HA	42:BT:52:ARG:CD	2.42	0.49
42:BT:9:VAL:O	42:BT:13:LYS:HD3	2.12	0.49
43:BU:25:LEU:HD23	43:BU:28:GLU:OE1	2.11	0.49
43:BU:67:GLY:N	43:BU:94:LEU:HA	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BW:35:THR:CB	45:BW:38:GLU:HB2	2.42	0.49
46:BX:12:THR:CG2	46:BX:13:VAL:H	2.01	0.49
46:BX:29:GLU:HG3	46:BX:34:LYS:HB2	1.94	0.49
47:BY:10:ARG:NH2	47:BY:36:LYS:O	2.46	0.49
47:BY:127:LYS:HB3	47:BY:163:LEU:HA	1.95	0.49
47:BY:151:HIS:CA	47:BY:171:ILE:HG22	2.42	0.49
47:BY:1:MET:SD	47:BY:61:LEU:HG	2.52	0.49
47:BY:157:LEU:HD22	47:BY:161:VAL:CG2	2.43	0.49
1:AA:1039:C:O2'	1:AA:1040:U:H5'	2.13	0.49
1:AA:562:C:HO2'	15:AO:15:ARG:HD3	1.75	0.49
1:AA:1011:G:C2	1:AA:1012:U:H1'	2.47	0.49
38:BP:116:GLU:O	38:BP:117:ALA:C	2.51	0.49
1:AA:101:A:C2'	1:AA:102:G:H5'	2.43	0.49
1:AA:1275:A:H2	1:AA:1283:G:H5'	1.78	0.49
1:AA:132:C:C2	1:AA:231:G:C2	3.00	0.49
1:AA:1363:A:N3	1:AA:1365:G:O6	2.44	0.49
1:AA:1399:C:C4	1:AA:1502:A:N6	2.70	0.49
1:AA:1423:G:C6	1:AA:1424:C:C4	3.00	0.49
1:AA:1431:C:C2'	1:AA:1432:G:C5'	2.90	0.49
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.13	0.49
1:AA:241:C:C2	1:AA:242:C:C5	3.01	0.49
1:AA:253:U:C2'	1:AA:254:G:H8	2.15	0.49
1:AA:297:G:N2	1:AA:299:G:C5'	2.76	0.49
1:AA:658:G:C5	1:AA:659:U:C5	3.01	0.49
1:AA:722:A:N3	1:AA:724:G:N7	2.60	0.49
1:AA:834:C:H2'	1:AA:835:U:O4'	2.13	0.49
1:AA:887:G:N2	1:AA:911:U:H1'	2.27	0.49
1:AA:939:G:N2	1:AA:940:C:C2	2.81	0.49
1:AA:950:U:O2'	1:AA:951:G:H5'	2.13	0.49
3:AD:34:G:H2'	3:AD:34:G:N3	2.26	0.49
3:AD:60:U:C2'	3:AD:61:C:OP1	2.61	0.49
3:AD:74:C:OP1	51:B3:22:ILE:HG12	2.13	0.49
5:AE:216:SER:O	5:AE:217:ARG:C	2.51	0.49
5:AE:222:ILE:CD1	5:AE:226:ARG:NH2	2.55	0.49
5:AE:61:LEU:HD23	5:AE:62:ALA:N	2.28	0.49
7:AG:14:ARG:HG3	7:AG:15:GLU:N	2.28	0.49
7:AG:173:TRP:HA	7:AG:186:LEU:CG	2.43	0.49
8:AH:12:LEU:C	8:AH:12:LEU:HD13	2.31	0.49
8:AH:79:GLU:CB	8:AH:92:LYS:HA	2.28	0.49
8:AH:79:GLU:HG2	8:AH:92:LYS:HG3	1.95	0.49
10:AJ:113:GLU:OE2	10:AJ:119:ARG:CG	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:116:ALA:O	10:AJ:120:ILE:HG13	2.13	0.49
10:AJ:45:ASP:CA	10:AJ:48:LYS:NZ	2.67	0.49
10:AJ:51:GLN:O	10:AJ:55:GLY:HA2	2.12	0.49
11:AK:21:LYS:CA	11:AK:21:LYS:HE2	2.43	0.49
11:AK:96:GLY:HA2	11:AK:130:GLY:CA	2.43	0.49
12:AL:5:TYR:CD2	12:AL:17:VAL:O	2.65	0.49
12:AL:17:VAL:HG22	12:AL:63:ILE:HG12	1.94	0.49
12:AL:74:ILE:O	12:AL:77:ILE:HB	2.13	0.49
16:AP:29:ARG:CZ	16:AP:64:TRP:NE1	2.74	0.49
18:AR:26:GLU:CD	18:AR:77:ARG:HH21	2.16	0.49
19:AS:67:THR:HG22	19:AS:68:ASP:N	2.28	0.49
19:AS:7:ALA:CB	19:AS:9:PHE:HE2	2.25	0.49
19:AS:8:ARG:CD	19:AS:8:ARG:C	2.80	0.49
20:AT:57:VAL:HB	20:AT:75:ARG:O	2.12	0.49
22:AV:9:VAL:O	22:AV:10:PHE:O	2.30	0.49
49:B1:1:MET:O	49:B1:3:LYS:N	2.45	0.49
50:B2:19:GLN:NE2	50:B2:50:VAL:CA	2.59	0.49
51:B3:58:ARG:O	51:B3:62:ARG:CD	2.61	0.49
53:B5:17:LYS:NZ	53:B5:48:VAL:CG2	2.76	0.49
54:B6:43:THR:O	54:B6:46:VAL:CB	2.60	0.49
25:BA:1019:U:H3'	25:BA:1019:U:H6	1.76	0.49
25:BA:106:C:HO2'	25:BA:293:U:HO2'	1.51	0.49
25:BA:1202:C:N3	25:BA:1203:G:O2'	2.42	0.49
25:BA:1238:G:C2	25:BA:1239:G:C4	3.01	0.49
25:BA:1326:U:H6	25:BA:1326:U:OP2	1.95	0.49
25:BA:1328:G:H2'	25:BA:1330:C:C5	2.48	0.49
25:BA:1405:U:C2	25:BA:1406:U:C4	3.00	0.49
25:BA:141:A:C6	25:BA:141(A):C:O4'	2.66	0.49
25:BA:1424:G:N3	25:BA:1425:G:O4'	2.45	0.49
25:BA:1424:G:C6	25:BA:1425:G:N3	2.81	0.49
25:BA:1467:C:N4	25:BA:1468:C:N4	2.61	0.49
25:BA:1471:A:C8	25:BA:1521:G:N1	2.80	0.49
25:BA:1471:A:C2'	25:BA:1472:A:H5'	2.43	0.49
25:BA:152:G:O2'	25:BA:153:C:C5'	2.56	0.49
25:BA:1534:G:N3	25:BA:1536:A:N7	2.61	0.49
25:BA:1743:G:C6	25:BA:1746:G:C4	3.01	0.49
25:BA:176:G:C2'	25:BA:177:G:O4'	2.55	0.49
25:BA:1364:G:C5'	25:BA:1809:A:C8	2.96	0.49
25:BA:1872:A:O2'	25:BA:1878:G:H5'	2.12	0.49
25:BA:200:U:C3'	25:BA:200:U:C6	2.96	0.49
25:BA:562:U:H5	25:BA:2036:C:O4'	1.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2176:A:O2'	27:BC:44:HIS:CD2	2.61	0.49
25:BA:2195:C:C2	25:BA:2196:C:H6	2.31	0.49
25:BA:2209:C:H2'	25:BA:2210:G:O3'	2.11	0.49
25:BA:221:A:O2'	25:BA:222:A:P	2.70	0.49
25:BA:2323:G:N2	25:BA:2324:C:C2	2.81	0.49
25:BA:2380:C:N4	25:BA:2381:C:H41	2.11	0.49
25:BA:199:A:N9	25:BA:2433:A:H2	2.11	0.49
25:BA:792:G:C6	25:BA:2440:C:N1	2.81	0.49
25:BA:2459:A:C6	25:BA:2493:U:O4	2.66	0.49
25:BA:2463:C:H2'	25:BA:2464:C:C5'	2.40	0.49
25:BA:2478:A:N7	25:BA:2479:G:N7	2.61	0.49
25:BA:2481:G:HO2'	25:BA:2482:G:H8	1.60	0.49
25:BA:2447:G:N7	25:BA:2500:U:O3'	2.44	0.49
25:BA:2563:U:H1'	25:BA:2566:A:N7	2.28	0.49
25:BA:2605:U:C2	25:BA:2606:C:C5	3.01	0.49
25:BA:2627:G:C5	25:BA:2777:G:O6	2.65	0.49
25:BA:2726:U:O2'	25:BA:2727:G:H5'	2.13	0.49
25:BA:2741:A:OP1	56:B8:22:ARG:NH2	2.46	0.49
25:BA:2799:A:O2'	25:BA:2802:G:C6	2.59	0.49
25:BA:2820:A:N7	29:BE:191:PRO:HB3	2.27	0.49
25:BA:280:C:H5''	25:BA:282:A:OP1	2.12	0.49
25:BA:2846:G:H5'	41:BS:54:ARG:NH2	2.19	0.49
25:BA:2872:G:O2'	25:BA:2873:A:O5'	2.28	0.49
25:BA:28:A:C3'	25:BA:29:U:H5'	2.41	0.49
25:BA:330:A:H1'	25:BA:1210:A:C5	2.48	0.49
25:BA:483:A:C2	25:BA:484:C:H1'	2.47	0.49
25:BA:627:A:C4'	37:BO:75:ILE:HG21	2.43	0.49
25:BA:673:C:C5'	30:BF:82:ILE:HD12	2.43	0.49
25:BA:733:G:O6	25:BA:761:A:C5	2.66	0.49
25:BA:768:G:H2'	25:BA:769:G:O4'	2.13	0.49
25:BA:977:G:H2'	25:BA:978:G:H4'	1.93	0.49
25:BA:988:A:C2	25:BA:989:G:N2	2.81	0.49
25:BA:995:C:H2'	42:BT:61:TRP:HZ2	1.77	0.49
27:BC:101:GLN:OE1	27:BC:101:GLN:HA	2.13	0.49
27:BC:182:PRO:O	27:BC:183:GLU:C	2.50	0.49
27:BC:21:THR:O	27:BC:24:GLU:HB2	2.13	0.49
28:BD:181:GLU:OE1	28:BD:270:ILE:HG21	2.13	0.49
28:BD:91:ARG:HH22	28:BD:198:ASN:CB	2.24	0.49
29:BE:101:ARG:O	29:BE:202:LYS:NZ	2.41	0.49
29:BE:117:MET:SD	29:BE:136:ARG:CB	3.00	0.49
29:BE:107:THR:HA	29:BE:164:ARG:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:176:ILE:HD13	29:BE:176:ILE:O	2.12	0.49
31:BG:128:ARG:CZ	31:BG:130:ASN:ND2	2.75	0.49
31:BG:33:ARG:HH21	31:BG:33:ARG:C	2.15	0.49
31:BG:78:SER:HB3	31:BG:82:LEU:HB2	1.94	0.49
25:BA:2748:A:C2	32:BH:67:LEU:HD11	2.47	0.49
35:BM:7:LYS:CD	35:BM:39:ARG:NH1	2.75	0.49
36:BN:111:PHE:C	36:BN:113:LYS:H	2.16	0.49
36:BN:21:CYS:CA	36:BN:41:ALA:HB2	2.19	0.49
36:BN:15:GLY:O	36:BN:46:ALA:O	2.30	0.49
37:BO:122:PRO:CG	37:BO:137:LYS:C	2.80	0.49
38:BP:59:ARG:HH12	38:BP:61:GLY:HA3	1.76	0.49
39:BQ:74:LYS:HD3	39:BQ:74:LYS:N	2.28	0.49
39:BQ:77:ARG:NH1	39:BQ:77:ARG:CG	2.73	0.49
40:BR:23:ARG:HG3	40:BR:24:LEU:CD1	2.43	0.49
41:BS:65:LYS:HD3	41:BS:75:ILE:HD13	1.95	0.49
42:BT:76:TYR:CD2	42:BT:80:ILE:HG13	2.47	0.49
42:BT:79:PHE:CE2	42:BT:106:PHE:HZ	2.30	0.49
43:BU:93:GLU:CD	43:BU:95:LEU:CD2	2.81	0.49
44:BV:106:ILE:O	44:BV:106:ILE:CG2	2.59	0.49
46:BX:18:GLY:O	46:BX:19:LYS:CD	2.61	0.49
47:BY:105:VAL:HG12	47:BY:107:THR:N	2.28	0.49
47:BY:102:LEU:CB	47:BY:123:ASP:O	2.60	0.49
47:BY:40:ASP:N	47:BY:44:PHE:CD1	2.81	0.49
48:BZ:40:GLN:HG2	48:BZ:59:LEU:HD11	1.95	0.49
33:BK:57:ARG:O	33:BK:60:GLU:HB3	2.12	0.49
25:BA:1057:A:C2	25:BA:1058:G:N7	2.81	0.49
1:AA:1010:G:C2	1:AA:1011:G:N7	2.81	0.49
1:AA:1104:G:H2'	1:AA:1105:A:H8	1.78	0.49
1:AA:1135:U:O2	1:AA:1137:C:C2	2.66	0.49
1:AA:1200:C:C4'	1:AA:1200:C:OP2	2.60	0.49
1:AA:1316:G:N3	1:AA:1318:A:OP2	2.46	0.49
1:AA:1331:G:O2'	1:AA:1332:A:P	2.71	0.49
1:AA:1357:A:N7	1:AA:1358:U:C4	2.81	0.49
1:AA:1375:A:H2'	1:AA:1376:U:C5	2.41	0.49
1:AA:1377:A:C2	10:AJ:7:ALA:HB1	2.48	0.49
1:AA:924:C:O2'	1:AA:1399:C:H6	1.96	0.49
1:AA:1423:G:C5	1:AA:1424:C:C5	3.00	0.49
1:AA:143:A:N1	1:AA:220:G:O6	2.45	0.49
1:AA:195:A:H4'	23:AW:68:LYS:NZ	2.28	0.49
1:AA:226:G:O2'	1:AA:227:G:O5'	2.31	0.49
1:AA:438:G:N2	1:AA:495:A:H8	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:657:G:O4'	18:AR:28:GLN:NE2	2.44	0.49
1:AA:686:U:O2'	1:AA:687:A:P	2.71	0.49
1:AA:702:A:C2	25:BA:1848:A:C4	3.01	0.49
1:AA:738:C:H2'	1:AA:739:C:H6	1.77	0.49
1:AA:768:A:H8	1:AA:768:A:O5'	1.96	0.49
1:AA:777:A:C5	1:AA:778:G:N7	2.81	0.49
1:AA:789:U:N3	1:AA:791:G:OP2	2.46	0.49
1:AA:889:A:H5'	1:AA:891:U:O4'	2.13	0.49
1:AA:913:A:O2'	1:AA:914:A:P	2.70	0.49
1:AA:971:G:C8	1:AA:1365:G:H4'	2.48	0.49
2:AC:18:G:N3	2:AC:58:A:C4	2.81	0.49
3:AD:19:G:H5''	3:AD:20:U:C4	2.47	0.49
3:AD:21:A:C6	3:AD:46:G:N2	2.80	0.49
3:AD:1:G:C6	3:AD:73:A:N6	2.81	0.49
6:AF:101:LEU:HD23	6:AF:103:VAL:HG23	1.95	0.49
6:AF:116:VAL:HG11	6:AF:141:VAL:CG2	2.26	0.49
1:AA:1107:C:OP1	6:AF:172:ARG:HA	2.13	0.49
6:AF:77:ILE:HD11	6:AF:103:VAL:HG21	1.93	0.49
9:AI:79:LEU:N	9:AI:79:LEU:HD23	2.27	0.49
10:AJ:76:ARG:C	10:AJ:156:TRP:HZ2	2.16	0.49
11:AK:123:GLU:O	11:AK:124:ALA:C	2.50	0.49
13:AM:84:GLN:OE1	13:AM:88:LEU:HD12	2.12	0.49
15:AO:23:LYS:O	15:AO:24:VAL:CG2	2.55	0.49
13:AM:62:HIS:O	17:AQ:59:ALA:CB	2.61	0.49
18:AR:32:LEU:O	18:AR:36:ILE:HB	2.12	0.49
18:AR:69:TYR:O	18:AR:72:ARG:N	2.45	0.49
18:AR:79:ARG:CZ	18:AR:79:ARG:HB2	2.42	0.49
19:AS:20:VAL:CG1	19:AS:32:TYR:CD2	2.96	0.49
22:AV:36:ARG:HH12	22:AV:72:GLY:HA2	1.72	0.49
25:BA:851:U:O2'	50:B2:45:GLY:HA3	2.12	0.49
51:B3:59:PHE:O	51:B3:60:GLN:C	2.50	0.49
51:B3:58:ARG:N	51:B3:61:ARG:NH1	2.60	0.49
25:BA:125:G:O3'	54:B6:47:ARG:NH1	2.45	0.49
55:B7:6:THR:HG23	55:B7:9:GLY:N	2.28	0.49
25:BA:1027:A:O2'	25:BA:1028:A:C5'	2.61	0.49
25:BA:1031:G:C5'	25:BA:1032:A:OP2	2.61	0.49
25:BA:111:A:H2'	25:BA:112:U:C6	2.48	0.49
25:BA:1011:G:C6	25:BA:1151:G:C6	3.00	0.49
25:BA:1162:G:OP2	25:BA:1162:G:H8	1.96	0.49
25:BA:1251:C:O5'	42:BT:10:ARG:NE	2.46	0.49
25:BA:1626:G:H21	25:BA:1634:A:H1'	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1637:A:H2'	25:BA:1638:C:H6	1.74	0.49
25:BA:1689:A:C2	25:BA:1700:A:C2	3.01	0.49
25:BA:1726:G:C6	25:BA:1727:U:O4	2.66	0.49
25:BA:1788:C:C2'	28:BD:222:ARG:CZ	2.89	0.49
25:BA:1853:A:O2'	25:BA:1854:A:C5'	2.61	0.49
25:BA:528:A:H2	25:BA:2043:C:O4'	1.95	0.49
25:BA:2052:G:C5	25:BA:2053:G:N7	2.81	0.49
25:BA:2057:A:H2'	25:BA:2058:A:C8	2.48	0.49
25:BA:2091:U:C5'	33:BK:27:ARG:HH12	2.26	0.49
25:BA:2121:G:H3'	25:BA:2122:U:H6	1.77	0.49
25:BA:2134:A:H2'	25:BA:2135:A:C5'	2.42	0.49
25:BA:2178:C:H1'	27:BC:168:THR:HG1	1.77	0.49
25:BA:2219:G:N2	25:BA:2224:G:O4'	2.46	0.49
25:BA:2305:A:O2'	31:BG:136:ARG:O	2.31	0.49
25:BA:2484:G:N2	25:BA:2485:G:C1'	2.76	0.49
25:BA:2544:G:C2	25:BA:2545:G:C4	3.01	0.49
25:BA:270(H):C:C2'	25:BA:270(I):G:H5'	2.42	0.49
25:BA:270(J):G:C6	25:BA:270(K):C:C4	3.01	0.49
25:BA:2712:U:H5''	25:BA:2714:G:H4'	1.95	0.49
25:BA:2742:C:O2	25:BA:2742:C:H2'	2.13	0.49
25:BA:2754:U:C2'	25:BA:2756:U:OP2	2.60	0.49
25:BA:2808:U:C3'	25:BA:2809:A:H5''	2.43	0.49
25:BA:283:A:C2'	25:BA:284:U:H5'	2.42	0.49
25:BA:287:C:H2'	25:BA:288:C:C6	2.47	0.49
25:BA:401:A:C8	25:BA:402:A:H8	2.31	0.49
25:BA:452:G:C2	25:BA:458:G:C2	3.01	0.49
25:BA:476:G:C4'	25:BA:505:A:C2	2.95	0.49
25:BA:511:U:OP2	25:BA:512:G:C5	2.66	0.49
25:BA:527:C:C5	25:BA:2779:U:C6	3.00	0.49
25:BA:574:C:C2'	25:BA:574:C:O2	2.61	0.49
25:BA:604:G:H1'	25:BA:657:U:H1'	1.93	0.49
25:BA:605:C:C1'	25:BA:658:C:H4'	2.43	0.49
25:BA:824:A:C5'	25:BA:825:C:OP2	2.60	0.49
25:BA:917:A:H2'	25:BA:918:A:O4'	2.12	0.49
25:BA:957:A:N6	25:BA:959:A:N3	2.58	0.49
25:BA:995:C:H1'	42:BT:57:PHE:CD2	2.48	0.49
26:BB:73:A:H61	26:BB:104:A:C1'	2.24	0.49
26:BB:74:U:H2'	26:BB:75:G:H1'	1.94	0.49
27:BC:113:VAL:CG2	27:BC:136:LEU:O	2.55	0.49
27:BC:22:ILE:HG21	27:BC:190:ARG:CZ	2.43	0.49
27:BC:10:LEU:HD11	27:BC:32:LEU:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:147:LEU:O	28:BD:148:GLU:C	2.50	0.49
28:BD:165:ILE:O	28:BD:165:ILE:HG22	2.12	0.49
25:BA:1791:A:H4'	28:BD:206:LEU:CD2	2.43	0.49
28:BD:70:TRP:N	28:BD:70:TRP:CE3	2.81	0.49
30:BF:116:ASP:O	30:BF:120:GLU:HG2	2.13	0.49
31:BG:4:ASP:HA	31:BG:7:LEU:HB2	1.94	0.49
31:BG:55:LYS:HE2	31:BG:148:MET:HB2	1.93	0.49
31:BG:95:ARG:O	31:BG:99:MET:HG3	2.13	0.49
32:BH:107:VAL:HG13	32:BH:152:ARG:HG2	1.95	0.49
32:BH:65:HIS:O	32:BH:69:ARG:HG2	2.13	0.49
33:BK:16:GLY:C	33:BK:17:GLN:HG3	2.33	0.49
33:BK:21:VAL:HG11	33:BK:30:LEU:CD2	2.43	0.49
33:BK:3:VAL:HG13	33:BK:31:LEU:HD11	1.95	0.49
35:BM:33:LEU:O	35:BM:35:ARG:CG	2.49	0.49
35:BM:45:ASN:C	35:BM:46:VAL:HG23	2.34	0.49
35:BM:74:ARG:HD2	35:BM:82:LEU:CD1	2.42	0.49
35:BM:90:MET:C	35:BM:90:MET:SD	2.91	0.49
36:BN:106:LEU:HD12	36:BN:107:ARG:N	2.28	0.49
37:BO:117:GLU:N	37:BO:117:GLU:CD	2.65	0.49
38:BP:22:LYS:HE3	38:BP:23:GLY:C	2.33	0.49
38:BP:93:TYR:C	38:BP:94:VAL:CG1	2.81	0.49
39:BQ:43:GLU:C	39:BQ:45:ARG:N	2.65	0.49
40:BR:57:LYS:HZ1	40:BR:62:LYS:CD	2.24	0.49
42:BT:79:PHE:CE2	42:BT:106:PHE:CZ	3.00	0.49
42:BT:45:TYR:C	42:BT:49:HIS:ND1	2.67	0.49
43:BU:3:ALA:HA	43:BU:44:LYS:HE3	1.90	0.49
42:BT:50:ARG:NH2	43:BU:75:PHE:CE2	2.75	0.49
45:BW:16:LYS:HD2	45:BW:17:ALA:H	1.77	0.49
47:BY:117:LEU:O	47:BY:174:VAL:HG12	2.13	0.49
48:BZ:83:PRO:O	48:BZ:84:LEU:O	2.30	0.49
33:BK:123:LEU:HG	33:BK:124:GLY:N	2.28	0.49
1:AA:1128:C:C1'	1:AA:1146:A:H61	2.24	0.49
1:AA:1190:G:H3'	6:AF:3:ASN:HD21	1.78	0.49
1:AA:130:A:O2'	1:AA:131:C:P	2.71	0.49
1:AA:1340:A:O3'	2:AC:32:C:H5'	2.13	0.49
1:AA:1516:G:C4	1:AA:1520:G:N2	2.81	0.49
1:AA:191(E):G:O5'	1:AA:191(E):G:H8	1.95	0.49
1:AA:266:G:N2	1:AA:270:A:H62	1.99	0.49
1:AA:297:G:N2	1:AA:299:G:C3'	2.64	0.49
1:AA:299:G:N1	1:AA:300:A:N1	2.61	0.49
1:AA:487:A:OP2	1:AA:488:C:H5	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:61:G:H2'	1:AA:62:U:O4'	2.12	0.49
1:AA:647:C:O2'	1:AA:648:A:H5'	2.12	0.49
1:AA:696:A:H2'	1:AA:697:U:C5'	2.43	0.49
1:AA:703:G:O5'	1:AA:703:G:H8	1.95	0.49
1:AA:814:A:H2'	1:AA:816:A:OP1	2.13	0.49
1:AA:853:G:H2'	1:AA:854:G:H8	1.77	0.49
1:AA:828:A:C2	1:AA:859:A:O4'	2.65	0.49
1:AA:965:A:H2'	1:AA:965:A:N3	2.27	0.49
2:AC:74:C:N4	48:BZ:4:LYS:HZ1	2.11	0.49
3:AD:75:C:C3'	3:AD:76:A:H4'	2.43	0.49
5:AE:112:VAL:O	5:AE:113:HIS:C	2.51	0.49
5:AE:177:ALA:HA	5:AE:180:LEU:HD12	1.95	0.49
6:AF:111:LEU:HD12	6:AF:111:LEU:N	2.28	0.49
6:AF:181:ASN:HD22	6:AF:206:GLU:HG2	1.77	0.49
8:AH:91:LEU:CD2	8:AH:118:ILE:CG2	2.82	0.49
8:AH:35:GLY:HA3	8:AH:41:VAL:HG13	1.95	0.49
8:AH:7:GLU:HB3	8:AH:112:LEU:CD1	2.36	0.49
8:AH:9:LYS:HE2	8:AH:112:LEU:CD2	2.43	0.49
9:AI:73:ASN:O	9:AI:76:ALA:CB	2.53	0.49
11:AK:26:VAL:HG22	11:AK:27:PRO:CD	2.42	0.49
11:AK:6:ILE:CD1	11:AK:85:ARG:CZ	2.90	0.49
1:AA:1368:G:OP1	12:AL:113:LYS:HA	2.13	0.49
12:AL:116:LYS:HB2	12:AL:121:ARG:C	2.33	0.49
12:AL:28:VAL:O	12:AL:29:ASN:C	2.51	0.49
12:AL:38:GLN:O	12:AL:40:LEU:HG	2.13	0.49
14:AN:73:MET:HE1	14:AN:103:LEU:HD22	1.94	0.49
16:AP:16:ASP:OD1	16:AP:34:LEU:CD1	2.61	0.49
16:AP:53:VAL:O	16:AP:54:VAL:C	2.51	0.49
16:AP:92:HIS:CG	16:AP:98:VAL:HG21	2.48	0.49
16:AP:96:LEU:O	16:AP:98:VAL:CG2	2.59	0.49
18:AR:69:TYR:HB2	18:AR:72:ARG:HH21	1.78	0.49
1:AA:626:U:H5''	19:AS:38:TYR:CD2	2.48	0.49
19:AS:52:ASP:OD2	19:AS:55:ARG:N	2.46	0.49
19:AS:9:PHE:CZ	19:AS:18:ARG:CG	2.95	0.49
20:AT:18:THR:HG22	20:AT:19:VAL:N	2.27	0.49
23:AW:87:LYS:O	23:AW:90:GLN:N	2.46	0.49
1:AA:1243:C:OP2	24:AX:10:ARG:NE	2.46	0.49
49:B1:19:LEU:HD13	49:B1:55:LEU:HD23	1.95	0.49
51:B3:53:GLU:CG	51:B3:54:GLY:N	2.74	0.49
54:B6:12:ARG:O	54:B6:13:ALA:C	2.49	0.49
55:B7:6:THR:O	55:B7:6:THR:CG2	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:247:G:C2	55:B7:8:LYS:HD2	2.42	0.49
56:B8:30:PRO:HG2	56:B8:31:LYS:H	1.77	0.49
25:BA:1006:C:N3	25:BA:1137:G:C2	2.81	0.49
25:BA:1143:A:N3	25:BA:1144:G:C5	2.81	0.49
25:BA:1155:A:O2'	25:BA:1156:A:C5'	2.60	0.49
25:BA:1177:A:HO2'	25:BA:1178:C:C5'	2.26	0.49
25:BA:1196:C:N3	25:BA:1197:G:C6	2.81	0.49
25:BA:1204:A:O2'	25:BA:1205:U:OP2	2.26	0.49
25:BA:119:A:O2'	25:BA:120:U:O5'	2.31	0.49
25:BA:1267:U:H5	25:BA:2012:G:C2	2.31	0.49
25:BA:152:G:C2	25:BA:153:C:C2	3.00	0.49
25:BA:1559:G:C4	25:BA:1559:G:C3'	2.83	0.49
25:BA:1580:A:O3'	25:BA:1581:G:O4'	2.31	0.49
25:BA:163:U:C2	25:BA:164:U:C4	3.01	0.49
25:BA:1707:G:C2	25:BA:1708:C:C2	3.00	0.49
25:BA:1725:G:H22	25:BA:1726:G:H1'	1.78	0.49
25:BA:1747:G:C2'	25:BA:1748:G:H5'	2.42	0.49
25:BA:1753:G:C2'	41:BS:98:LYS:NZ	2.76	0.49
25:BA:1830:C:C2'	25:BA:1831:G:O5'	2.61	0.49
25:BA:1915:U:P	25:BA:1915:U:C3'	2.90	0.49
25:BA:1916:A:O2'	25:BA:1917:U:C2	2.65	0.49
25:BA:1947:C:C2	25:BA:1948:G:H8	2.29	0.49
25:BA:1784:A:C8	25:BA:1981:A:C5	3.01	0.49
25:BA:202:U:O4'	25:BA:251:A:H2	1.96	0.49
25:BA:2078:C:C2	25:BA:2079:U:C6	3.01	0.49
25:BA:2115:G:H2'	25:BA:2117:A:N7	2.28	0.49
25:BA:2148:G:C2	25:BA:2149:G:C5	3.01	0.49
25:BA:2197:U:O4	25:BA:2224:G:H2'	2.13	0.49
25:BA:2211:G:C2'	25:BA:2211:G:N3	2.75	0.49
25:BA:963:U:C1'	25:BA:2250:G:H21	2.08	0.49
25:BA:2325:G:C4	25:BA:2326:C:C5	3.00	0.49
25:BA:2376:A:C2	25:BA:2377:A:H1'	2.48	0.49
25:BA:2391:G:O2'	25:BA:2392:A:O5'	2.31	0.49
25:BA:2401:U:O2'	25:BA:2402:C:H5'	2.13	0.49
25:BA:2423:U:C6	25:BA:2425:A:C6	3.00	0.49
25:BA:2458:G:H2'	25:BA:2460:U:C4	2.48	0.49
25:BA:2559:C:O2'	25:BA:2560:C:C5'	2.58	0.49
25:BA:2588:G:C6	25:BA:2589:A:C4	3.01	0.49
25:BA:2776:A:H1'	25:BA:2778:A:H5''	1.94	0.49
25:BA:325:G:C8	25:BA:325:G:C3'	2.96	0.49
25:BA:371:A:C8	25:BA:424:G:OP1	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:455:C:O2'	25:BA:456:C:H5'	2.13	0.49
25:BA:453:C:C4'	25:BA:457:A:N6	2.76	0.49
25:BA:52:A:C8	25:BA:52:A:O5'	2.60	0.49
25:BA:595:C:O5'	25:BA:595:C:H6	1.96	0.49
25:BA:613:U:H5'	25:BA:614:U:C4	2.47	0.49
25:BA:628:G:N1	25:BA:629:G:C5	2.81	0.49
25:BA:741:G:O6	25:BA:757:U:O2	2.31	0.49
25:BA:81:G:O2'	25:BA:294:A:H2'	2.13	0.49
25:BA:821:A:C8	25:BA:946:G:C4	3.01	0.49
25:BA:860:U:H2'	25:BA:861:A:H5'	1.95	0.49
25:BA:848:G:C2	25:BA:931:G:O6	2.66	0.49
25:BA:962:G:H21	25:BA:963:U:H1'	1.78	0.49
25:BA:971:C:H2'	25:BA:971:C:O2	2.13	0.49
26:BB:114:G:H21	40:BR:36:TYR:HE2	1.59	0.49
27:BC:167:LYS:HE3	27:BC:168:THR:CG2	2.42	0.49
27:BC:19:ILE:CG1	27:BC:223:ARG:HD3	2.42	0.49
28:BD:136:ILE:CG2	28:BD:137:PRO:N	2.75	0.49
28:BD:23:GLU:O	28:BD:204:ILE:CG1	2.61	0.49
28:BD:246:PRO:HG2	28:BD:252:TRP:HA	1.95	0.49
28:BD:259:THR:N	28:BD:261:LYS:HE3	2.27	0.49
28:BD:45:ASN:C	28:BD:46:GLN:CG	2.79	0.49
25:BA:2052:G:C5'	29:BE:141:ILE:HD12	2.42	0.49
29:BE:77:ILE:O	29:BE:78:LEU:CD2	2.53	0.49
31:BG:165:THR:HB	31:BG:168:GLU:CD	2.33	0.49
31:BG:44:GLY:HA3	31:BG:72:ARG:HB2	1.91	0.49
31:BG:47:LYS:CD	31:BG:72:ARG:O	2.60	0.49
32:BH:33:LEU:HD23	32:BH:34:GLU:N	2.28	0.49
35:BM:23:LEU:HB2	35:BM:24:GLY:H	1.31	0.49
35:BM:27:ALA:C	35:BM:106:MET:HE1	2.33	0.49
35:BM:6:PRO:CD	35:BM:41:ASP:HB3	2.43	0.49
29:BE:152:LYS:HG2	35:BM:77:GLY:O	2.12	0.49
36:BN:2:ILE:CA	36:BN:3:GLN:NE2	2.76	0.49
36:BN:11:ALA:CB	36:BN:97:ARG:HH22	2.25	0.49
38:BP:121:ALA:O	38:BP:124:LYS:CB	2.55	0.49
38:BP:12:GLN:HE21	38:BP:12:GLN:HA	1.73	0.49
38:BP:137:TYR:O	38:BP:138:ASP:CB	2.60	0.49
41:BS:101:PHE:C	41:BS:103:ARG:H	2.17	0.49
41:BS:54:ARG:CA	41:BS:64:ARG:CB	2.91	0.49
42:BT:98:LEU:CD1	42:BT:105:VAL:CG1	2.91	0.49
25:BA:563:G:N2	42:BT:34:LYS:HZ3	2.11	0.49
43:BU:43:GLU:O	43:BU:44:LYS:NZ	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:62:LEU:HD13	43:BU:98:GLU:HG2	1.92	0.49
44:BV:64:MET:HG3	44:BV:65:LEU:H	1.77	0.49
45:BW:50:LYS:HZ1	45:BW:87:GLN:CA	2.26	0.49
33:BK:115:ALA:O	33:BK:128:LEU:CD1	2.61	0.49
33:BK:60:GLU:OE1	33:BK:61:ARG:N	2.45	0.49
25:BA:1079:C:H2'	25:BA:1080:C:C5'	2.42	0.49
25:BA:1086:A:C2'	25:BA:1087:G:OP1	2.60	0.49
26:BB:87:G:N1	26:BB:90:C:C4	2.81	0.49
1:AA:1035:A:O2'	1:AA:1036:G:H5'	2.12	0.49
1:AA:848:C:O2'	1:AA:849:C:C5'	2.61	0.49
1:AA:838:G:N2	1:AA:849:C:O2	2.46	0.49
37:BO:94:GLU:C	37:BO:94:GLU:CD	2.72	0.49
28:BD:18:VAL:O	28:BD:18:VAL:HG12	2.13	0.49
1:AA:1173:G:C2'	1:AA:1174:G:H5''	2.42	0.48
1:AA:1192:C:C5	1:AA:1193:G:C1'	2.96	0.48
1:AA:955:U:H1'	1:AA:1227:A:H61	1.78	0.48
1:AA:1265:G:C6	1:AA:1271:G:C6	3.00	0.48
1:AA:1253:G:C2	1:AA:1285:A:N6	2.80	0.48
1:AA:1327:C:H5''	24:AX:20:LYS:CD	2.42	0.48
1:AA:1402:C:O2'	1:AA:1403:C:H5'	2.13	0.48
1:AA:156:G:C2	1:AA:157:G:H1'	2.48	0.48
1:AA:197:A:O2'	1:AA:198:G:O5'	2.30	0.48
1:AA:253:U:OP2	20:AT:67:LYS:HE3	2.13	0.48
1:AA:247:G:C2	1:AA:282:A:C2	3.00	0.48
1:AA:298:A:H2'	1:AA:299:G:O4'	2.12	0.48
1:AA:432:A:H8	1:AA:433:C:C6	2.30	0.48
1:AA:479:C:H2'	1:AA:480:U:C6	2.47	0.48
1:AA:397:A:C6	1:AA:548:G:N7	2.81	0.48
1:AA:692:U:N3	1:AA:695:A:OP2	2.46	0.48
1:AA:692:U:O4	14:AN:53:SER:CA	2.61	0.48
1:AA:724:G:N2	1:AA:725:G:C1'	2.75	0.48
1:AA:782:A:N7	1:AA:783:C:C4	2.81	0.48
1:AA:825:G:N2	1:AA:826:C:C2	2.80	0.48
1:AA:952:U:C4	16:AP:104:ARG:NH2	2.81	0.48
1:AA:956:U:O2	1:AA:960:U:O4	2.31	0.48
2:AC:18:G:C2	2:AC:58:A:C4	3.00	0.48
5:AE:27:LYS:HB2	5:AE:194:PRO:HD2	1.94	0.48
7:AG:155:LEU:N	7:AG:155:LEU:CD2	2.76	0.48
7:AG:173:TRP:CH2	7:AG:194:LEU:HD11	2.48	0.48
7:AG:177:ASP:CG	7:AG:179:GLU:HB3	2.32	0.48
7:AG:25:ARG:HH21	7:AG:30:LYS:HD3	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:71:SER:OG	7:AG:73:ARG:N	2.46	0.48
7:AG:94:LEU:HD23	7:AG:97:LEU:CD1	2.43	0.48
10:AJ:11:GLN:NE2	10:AJ:12:LEU:H	2.11	0.48
11:AK:122:ARG:HA	11:AK:125:ARG:HH11	1.78	0.48
11:AK:122:ARG:HD3	11:AK:123:GLU:H	1.78	0.48
11:AK:37:ARG:HE	11:AK:38:ILE:CD1	2.25	0.48
12:AL:69:GLY:O	12:AL:70:LYS:C	2.51	0.48
13:AM:60:ARG:CB	13:AM:60:ARG:NH1	2.75	0.48
14:AN:34:ASP:HB2	14:AN:35:PRO:HD2	1.95	0.48
14:AN:83:ILE:CG2	14:AN:84:VAL:N	2.76	0.48
15:AO:117:ARG:HH11	15:AO:117:ARG:HG3	1.78	0.48
16:AP:58:GLU:O	16:AP:61:GLU:CB	2.60	0.48
16:AP:29:ARG:HH11	16:AP:66:LEU:HD13	1.78	0.48
18:AR:62:GLN:NE2	18:AR:66:LEU:HD11	2.27	0.48
19:AS:19:ILE:CD1	19:AS:38:TYR:C	2.81	0.48
20:AT:31:LEU:CG	20:AT:31:LEU:O	2.60	0.48
20:AT:51:TYR:CZ	20:AT:73:VAL:CG1	2.95	0.48
1:AA:663:A:H4'	21:AU:61:LYS:HZ1	1.75	0.48
21:AU:72:ARG:HH11	21:AU:72:ARG:CB	2.26	0.48
1:AA:1320:C:C2	22:AV:72:GLY:HA3	2.47	0.48
23:AW:14:LYS:O	23:AW:18:GLN:CG	2.60	0.48
23:AW:57:ARG:HH11	23:AW:57:ARG:HG2	1.78	0.48
49:B1:43:HIS:O	49:B1:44:LYS:C	2.51	0.48
49:B1:58:VAL:O	49:B1:61:GLU:N	2.45	0.48
50:B2:17:LYS:HG2	50:B2:18:ASP:N	2.28	0.48
55:B7:6:THR:O	55:B7:7:HIS:C	2.51	0.48
56:B8:29:ASN:HB3	56:B8:32:HIS:ND1	2.28	0.48
25:BA:1029:A:C2'	25:BA:1030:G:H5'	2.43	0.48
25:BA:1142:U:C3'	25:BA:1142(A):A:N7	2.57	0.48
25:BA:1170:G:N2	25:BA:1180:C:C4	2.81	0.48
25:BA:1197:G:C5	25:BA:1198:U:H5	2.30	0.48
25:BA:1224:G:O6	25:BA:1225:C:N3	2.45	0.48
25:BA:1245:G:O2'	25:BA:1246:A:H5'	2.12	0.48
25:BA:1264:G:N7	25:BA:1265:A:C5	2.80	0.48
25:BA:126:A:C8	25:BA:127:A:C4	3.00	0.48
25:BA:1429:G:H2'	25:BA:1430:C:C6	2.48	0.48
25:BA:1476:C:H5	25:BA:1477:A:N1	2.10	0.48
25:BA:1498:C:H5''	25:BA:1499:C:H5	1.77	0.48
25:BA:1690:A:N6	25:BA:1697:G:N2	2.61	0.48
25:BA:1735:C:O2	25:BA:1741:C:H5	1.94	0.48
25:BA:740:U:O4'	25:BA:1784:A:C5	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1807:G:C1'	25:BA:1811:G:H22	2.26	0.48
25:BA:1956:U:H6	25:BA:1956:U:C5'	2.25	0.48
25:BA:2044:C:C4	25:BA:2625:G:C2	3.01	0.48
25:BA:2069:G:N1	25:BA:2070:G:C8	2.81	0.48
25:BA:2070:G:N2	25:BA:2071:A:N3	2.61	0.48
25:BA:2088:G:C6	25:BA:2089:U:C2	3.01	0.48
25:BA:2093:G:N7	25:BA:2225:A:C8	2.81	0.48
25:BA:2124:G:N3	27:BC:217:THR:CG2	2.76	0.48
25:BA:2111:C:N3	25:BA:2145:C:C2	2.81	0.48
25:BA:2265:U:C4	25:BA:2266:A:N7	2.81	0.48
25:BA:2416:C:OP1	37:BO:59:LEU:CA	2.54	0.48
25:BA:2432:A:H62	25:BA:2433:A:N6	2.07	0.48
25:BA:247:G:H4'	25:BA:386:G:C4	2.47	0.48
25:BA:2493:U:C5'	25:BA:2493:U:C6	2.88	0.48
25:BA:2503:A:C5'	25:BA:2504:U:OP2	2.61	0.48
25:BA:2528:U:O2'	25:BA:2529:G:O5'	2.31	0.48
25:BA:2569:G:C4	25:BA:2570:G:C8	3.00	0.48
25:BA:2572:A:C4'	25:BA:2573:C:OP1	2.57	0.48
25:BA:2618:G:C2	25:BA:2619:C:C6	3.01	0.48
25:BA:2691:C:HO2'	25:BA:2692:C:H5'	1.78	0.48
25:BA:2694:G:C2'	25:BA:2695:C:O5'	2.59	0.48
25:BA:2717:G:C4	25:BA:2718:G:C8	3.01	0.48
25:BA:2794:C:N3	25:BA:2799:A:H2	2.11	0.48
25:BA:2834:G:O6	25:BA:2835:A:H2	1.94	0.48
25:BA:463:G:C2	25:BA:467:G:C5	3.01	0.48
25:BA:468:G:C2'	25:BA:469:G:C5'	2.91	0.48
25:BA:533:G:N2	25:BA:559:G:N2	2.59	0.48
25:BA:565:C:H1'	25:BA:577:G:H22	1.74	0.48
25:BA:591:C:C2	25:BA:592:G:C8	3.01	0.48
25:BA:618:G:N7	25:BA:618(A):C:C5	2.80	0.48
25:BA:71:A:H4'	25:BA:72:U:H5''	1.94	0.48
25:BA:74:A:N1	49:B1:46:ARG:HD2	2.28	0.48
25:BA:858:U:O2	25:BA:2268:A:C8	2.66	0.48
25:BA:883:G:C2	25:BA:894:C:C2	3.01	0.48
25:BA:894:C:H2'	25:BA:895:U:H6	1.67	0.48
25:BA:899:A:H2'	25:BA:900:A:H5'	1.95	0.48
25:BA:90:U:H3'	25:BA:90:U:C6	2.48	0.48
26:BB:31:C:N4	26:BB:32:C:H41	2.11	0.48
26:BB:50:G:H5''	40:BR:61:ASN:CB	2.43	0.48
26:BB:78:A:C5	26:BB:99:A:N6	2.81	0.48
27:BC:197:GLU:O	27:BC:200:LYS:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:41:VAL:C	27:BC:42:GLU:HG2	2.33	0.48
27:BC:47:LEU:HG	27:BC:49:ILE:CG1	2.42	0.48
27:BC:47:LEU:HG	27:BC:49:ILE:CG2	2.41	0.48
27:BC:59:ARG:HH11	27:BC:164:ARG:HG2	1.78	0.48
28:BD:91:ARG:HH22	28:BD:198:ASN:ND2	2.09	0.48
28:BD:230:ASP:O	28:BD:231:HIS:C	2.50	0.48
28:BD:63:ARG:CZ	28:BD:63:ARG:H	2.26	0.48
29:BE:91:VAL:CG1	29:BE:93:VAL:HG13	2.43	0.48
30:BF:120:GLU:OE1	30:BF:120:GLU:CA	2.60	0.48
30:BF:194:MET:HE1	30:BF:197:ASP:N	2.28	0.48
31:BG:170:ARG:NH1	31:BG:170:ARG:CG	2.74	0.48
31:BG:21:ARG:O	31:BG:22:ARG:C	2.48	0.48
32:BH:111:HIS:O	32:BH:113:VAL:N	2.45	0.48
32:BH:7:LEU:C	32:BH:52:VAL:HG13	2.32	0.48
32:BH:69:ARG:HH21	32:BH:69:ARG:CG	2.26	0.48
35:BM:69:GLN:HE21	35:BM:69:GLN:C	2.16	0.48
38:BP:51:ARG:HH22	38:BP:63:LYS:HZ2	1.61	0.48
40:BR:94:TYR:C	40:BR:99:LYS:CB	2.63	0.48
41:BS:105:LEU:C	41:BS:107:ASP:N	2.66	0.48
36:BN:106:LEU:HD13	41:BS:39:ARG:CZ	2.43	0.48
41:BS:56:GLY:O	41:BS:61:PHE:CB	2.60	0.48
41:BS:50:ILE:CG1	41:BS:66:VAL:HB	2.42	0.48
41:BS:68:TYR:OH	41:BS:70:VAL:HG22	2.13	0.48
44:BV:43:GLY:O	44:BV:44:ALA:O	2.31	0.48
44:BV:98:LYS:O	44:BV:98:LYS:NZ	2.38	0.48
47:BY:96:VAL:CG1	47:BY:128:VAL:HG22	2.42	0.48
47:BY:24:LEU:CD1	47:BY:83:PRO:O	2.61	0.48
47:BY:2:GLU:OE2	47:BY:58:VAL:O	2.31	0.48
26:BB:76:G:C4'	47:BY:85:HIS:ND1	2.76	0.48
1:AA:849:C:H2'	1:AA:850:U:H6	1.78	0.48
25:BA:1573:G:H3'	25:BA:1573:G:C8	2.48	0.48
1:AA:1072:G:C4	1:AA:1104:G:N2	2.81	0.48
1:AA:1113:C:C2	1:AA:1114:C:C6	3.01	0.48
1:AA:1296:C:C5	1:AA:1297:C:N4	2.81	0.48
1:AA:1365:G:C6	1:AA:1366:C:C4	3.01	0.48
1:AA:925:G:C6	1:AA:1392:G:N1	2.81	0.48
1:AA:1407:C:O2'	1:AA:1408:A:H5'	2.13	0.48
1:AA:1430:C:O2'	1:AA:1431:C:O5'	2.31	0.48
1:AA:1475:G:H2'	1:AA:1476:G:H8	1.78	0.48
1:AA:21:G:C2'	1:AA:22:G:C8	2.86	0.48
1:AA:236:G:H3'	1:AA:237:C:H6	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:644:G:C5	1:AA:645:C:C6	3.00	0.48
1:AA:676:A:C2'	1:AA:677:U:O5'	2.60	0.48
1:AA:755:G:N3	1:AA:755:G:H2'	2.28	0.48
1:AA:902:G:N2	1:AA:903:G:C4	2.81	0.48
1:AA:966:G:N3	2:AC:34:C:H5'	2.28	0.48
2:AC:17:C:N3	2:AC:19:G:C8	2.81	0.48
3:AD:56:C:H2'	3:AD:57:G:O4'	2.13	0.48
5:AE:11:LEU:N	5:AE:11:LEU:HD23	2.28	0.48
5:AE:126:GLU:O	5:AE:127:ILE:O	2.31	0.48
5:AE:21:ARG:N	5:AE:21:ARG:HD2	2.27	0.48
5:AE:75:LYS:CA	5:AE:75:LYS:HZ2	2.26	0.48
5:AE:77:ALA:O	5:AE:80:ILE:HB	2.13	0.48
6:AF:155:GLY:O	6:AF:156:ARG:HB2	2.13	0.48
7:AG:15:GLU:OE2	7:AG:66:ARG:NH1	2.46	0.48
8:AH:74:GLY:O	8:AH:117:ASP:OD2	2.32	0.48
8:AH:79:GLU:O	11:AK:104:ARG:CZ	2.62	0.48
9:AI:33:TYR:CE2	9:AI:75:LEU:N	2.81	0.48
10:AJ:75:VAL:HG12	10:AJ:76:ARG:N	2.27	0.48
11:AK:49:GLU:OE1	11:AK:51:VAL:HG23	2.13	0.48
12:AL:101:PHE:O	12:AL:102:LEU:HD23	2.13	0.48
15:AO:85:ILE:CD1	15:AO:99:HIS:N	2.75	0.48
16:AP:33:ALA:HA	16:AP:59:TYR:OH	2.14	0.48
16:AP:49:THR:O	16:AP:53:VAL:HG23	2.13	0.48
16:AP:54:VAL:CG1	16:AP:58:GLU:OE1	2.61	0.48
17:AQ:16:PHE:C	17:AQ:18:VAL:N	2.64	0.48
19:AS:75:ARG:CG	19:AS:80:PHE:HB3	2.41	0.48
20:AT:31:LEU:HG	20:AT:32:TYR:CE2	2.48	0.48
22:AV:15:LEU:HD21	22:AV:38:SER:HB3	1.94	0.48
23:AW:34:LYS:O	23:AW:37:SER:N	2.46	0.48
23:AW:87:LYS:HG3	23:AW:91:LEU:CD2	2.38	0.48
24:AX:3:LYS:HB3	24:AX:14:TRP:CB	2.44	0.48
24:AX:6:ARG:HG3	24:AX:7:ARG:N	2.28	0.48
49:B1:6:GLU:O	49:B1:10:LYS:HG2	2.14	0.48
49:B1:7:GLU:C	49:B1:10:LYS:HG2	2.33	0.48
50:B2:22:ALA:O	50:B2:26:LEU:CD2	2.58	0.48
52:B4:47:PRO:O	52:B4:48:GLU:HG3	2.13	0.48
52:B4:8:LYS:HE3	52:B4:8:LYS:CA	2.42	0.48
53:B5:28:ARG:O	53:B5:29:ASN:O	2.31	0.48
54:B6:35:ARG:HG2	54:B6:42:LEU:HD12	1.94	0.48
55:B7:50:LEU:O	55:B7:53:PRO:HD2	2.13	0.48
55:B7:52:LYS:C	55:B7:56:GLU:OE1	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B7:7:HIS:CB	55:B7:11:LYS:HE3	2.42	0.48
25:BA:1119:C:C2	25:BA:1120:G:N7	2.81	0.48
25:BA:1136:G:C2'	25:BA:1137:G:H5'	2.42	0.48
25:BA:1205:U:C6	25:BA:1207:C:N4	2.81	0.48
25:BA:1241:A:H2'	25:BA:1242:A:OP1	2.14	0.48
25:BA:1299:G:C8	25:BA:1299:G:C3'	2.96	0.48
25:BA:1364:G:C2	25:BA:1368:G:C5	3.01	0.48
25:BA:141:A:C2	25:BA:1596:A:C2'	2.96	0.48
25:BA:1419:A:C3'	25:BA:1420:U:C2	2.92	0.48
25:BA:1475:G:H21	25:BA:1476:C:C4'	2.25	0.48
25:BA:1478:G:H2'	25:BA:1479:G:C1'	2.44	0.48
25:BA:1545(A):A:H3'	25:BA:1545(A):A:C8	2.48	0.48
25:BA:1674:G:O2'	25:BA:1676:A:N6	2.46	0.48
25:BA:1676:A:C8	25:BA:1677:A:C8	3.01	0.48
25:BA:1707:G:N3	25:BA:1708:C:C6	2.81	0.48
25:BA:1776:G:O2'	25:BA:1777:U:H5'	2.13	0.48
25:BA:181:A:C2	25:BA:182:A:C5	3.01	0.48
25:BA:1830:C:O2'	25:BA:1831:G:C5'	2.59	0.48
25:BA:1903:G:C2	25:BA:1904:G:N7	2.81	0.48
25:BA:2013:A:H2'	25:BA:2014:A:C5'	2.43	0.48
25:BA:2049:G:O2'	25:BA:2050:C:O5'	2.30	0.48
25:BA:2074:U:O2	25:BA:2075:U:C5	2.66	0.48
25:BA:2080:G:C2	25:BA:2081:C:C5	3.00	0.48
25:BA:2231:C:OP1	51:B3:39:CYS:CA	2.60	0.48
25:BA:2305:A:N3	31:BG:156:ASP:OD2	2.46	0.48
25:BA:2298:A:C1'	25:BA:2322:A:H1'	2.42	0.48
25:BA:2329:G:H2'	25:BA:2330:G:H8	1.76	0.48
25:BA:2329:G:O5'	25:BA:2329:G:H8	1.94	0.48
25:BA:239:U:H2'	25:BA:240:G:O4'	2.13	0.48
25:BA:242:G:H3'	55:B7:4:MET:HG3	1.95	0.48
25:BA:945:A:C2	25:BA:2448:A:C4	3.01	0.48
25:BA:2461:C:H2'	25:BA:2462:U:C6	2.48	0.48
25:BA:2468:G:C6	25:BA:2481:G:C5	3.01	0.48
25:BA:23:G:C2	25:BA:24:G:C8	3.01	0.48
25:BA:2537:U:C4	25:BA:2538:C:N4	2.81	0.48
25:BA:2588:G:O6	25:BA:2589:A:N1	2.46	0.48
25:BA:2589:A:C6	25:BA:2590:A:N7	2.81	0.48
25:BA:2620:C:C4'	29:BE:156:MET:HG2	2.43	0.48
25:BA:2658:C:C4	25:BA:2664:G:N2	2.81	0.48
25:BA:2694:G:H2'	25:BA:2695:C:H5'	1.94	0.48
25:BA:270(A):A:OP1	25:BA:270(B):A:OP2	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:270(M):U:H5''	25:BA:270(N):G:C5'	2.43	0.48
25:BA:2786:U:H2'	25:BA:2786:U:O2	2.13	0.48
25:BA:2006:C:O2'	25:BA:2823:A:H2'	2.13	0.48
25:BA:354:G:H8	25:BA:354:G:OP2	1.96	0.48
25:BA:377:C:H2'	25:BA:378:C:C6	2.48	0.48
25:BA:422:A:C2'	25:BA:423:A:O5'	2.61	0.48
25:BA:562:U:C2'	25:BA:563:G:OP2	2.61	0.48
25:BA:564:C:O2'	25:BA:1252:G:N1	2.47	0.48
25:BA:604:G:C2'	25:BA:605:C:O5'	2.62	0.48
25:BA:663:G:H4'	37:BO:18:ARG:HE	1.78	0.48
25:BA:976:C:H5'	25:BA:1156:A:N6	2.29	0.48
26:BB:56:G:O2'	26:BB:57:A:C5'	2.57	0.48
27:BC:108:MET:CE	27:BC:134:ARG:HD3	2.43	0.48
27:BC:117:PRO:HA	27:BC:120:MET:HG2	1.94	0.48
27:BC:100:ILE:CD1	27:BC:123:VAL:HA	2.43	0.48
27:BC:66:HIS:CE1	27:BC:180:PHE:CZ	3.02	0.48
28:BD:226:MET:HB3	28:BD:227:ASN:H	1.33	0.48
28:BD:54:ARG:HB3	28:BD:218:ARG:CD	2.42	0.48
29:BE:115:GLY:C	29:BE:117:MET:N	2.62	0.48
29:BE:119:ARG:HG3	29:BE:160:TYR:CD1	2.48	0.48
25:BA:2052:G:P	29:BE:141:ILE:HD11	2.53	0.48
25:BA:659:C:H4'	30:BF:102:PRO:HD2	1.95	0.48
30:BF:131:GLY:O	30:BF:134:GLY:N	2.42	0.48
30:BF:207:GLY:O	30:BF:208:GLY:C	2.51	0.48
25:BA:2305:A:O3'	31:BG:136:ARG:HG2	2.14	0.48
31:BG:134:GLY:CA	31:BG:156:ASP:HA	2.42	0.48
31:BG:56:ALA:HB3	31:BG:68:PRO:HG2	1.94	0.48
31:BG:83:ARG:O	31:BG:84:LYS:CG	2.61	0.48
32:BH:85:LYS:NZ	32:BH:142:GLY:HA2	2.28	0.48
35:BM:57:ALA:CB	35:BM:124:ALA:HA	2.43	0.48
35:BM:57:ALA:O	35:BM:60:ILE:HG13	2.12	0.48
36:BN:70:LYS:HD2	36:BN:104:ARG:HG3	1.94	0.48
36:BN:108:GLU:O	36:BN:109:LYS:HB2	2.13	0.48
36:BN:111:PHE:C	36:BN:111:PHE:CD1	2.86	0.48
36:BN:23:ARG:CD	36:BN:40:VAL:HG11	2.43	0.48
36:BN:8:LEU:O	36:BN:18:LYS:HG3	2.13	0.48
37:BO:122:PRO:HB3	37:BO:137:LYS:CA	2.43	0.48
25:BA:2690:C:H41	39:BQ:14:SER:CB	2.25	0.48
39:BQ:73:VAL:O	39:BQ:77:ARG:HG3	2.13	0.48
40:BR:27:SER:O	40:BR:27:SER:OG	2.23	0.48
26:BB:115:G:H5'	40:BR:50:SER:OG	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:83:ILE:HG23	41:BS:84:GLN:N	2.26	0.48
42:BT:99:ALA:CA	42:BT:106:PHE:HB2	2.17	0.48
42:BT:16:LYS:O	42:BT:20:LEU:HG	2.12	0.48
42:BT:36:ARG:O	42:BT:40:PHE:CD1	2.66	0.48
25:BA:751:A:C5'	44:BV:90:ARG:NH2	2.72	0.48
45:BW:63:LYS:N	45:BW:63:LYS:HD3	2.28	0.48
46:BX:19:LYS:HZ1	46:BX:39:VAL:CB	2.21	0.48
46:BX:2:ARG:HE	46:BX:3:VAL:HB	1.79	0.48
47:BY:171:ILE:C	47:BY:171:ILE:HD12	2.32	0.48
47:BY:10:ARG:NH2	47:BY:36:LYS:HB2	2.24	0.48
47:BY:44:PHE:HB3	47:BY:48:PHE:CE1	2.47	0.48
47:BY:57:ILE:HD11	47:BY:91:LEU:CD2	2.40	0.48
47:BY:24:LEU:CD2	47:BY:84:GLU:HA	2.43	0.48
34:BL:108:ALA:O	34:BL:109:LYS:C	2.51	0.48
34:BL:112:MET:SD	34:BL:115:LEU:CG	2.98	0.48
34:BL:98:ARG:HA	34:BL:137:GLU:O	2.12	0.48
1:AA:89:U:C4	1:AA:90:C:C5	3.01	0.48
4:A1:11:U:O2'	4:A1:12:A:OP1	2.19	0.48
1:AA:1083:U:C4	1:AA:1084:G:O6	2.66	0.48
1:AA:109:A:O4'	1:AA:109:A:N3	2.46	0.48
1:AA:1117:G:OP1	12:AL:104:ARG:NH1	2.46	0.48
1:AA:1184:G:C4	1:AA:1185:G:N7	2.81	0.48
1:AA:1296:C:O4'	1:AA:1302:U:O4	2.31	0.48
1:AA:1332:A:H2'	1:AA:1332:A:N3	2.29	0.48
1:AA:136:C:H4'	19:AS:65:GLN:NE2	2.25	0.48
1:AA:1371:G:C5	1:AA:1372:U:C5	3.01	0.48
1:AA:1404:C:O4'	1:AA:1499:A:H2	1.96	0.48
1:AA:143:A:H4'	1:AA:144:G:H8	1.78	0.48
1:AA:1452:C:H5'	1:AA:1453:G:C2	2.48	0.48
1:AA:1474:G:C2	1:AA:1475:G:C8	3.02	0.48
1:AA:152:A:N7	1:AA:153:C:C6	2.81	0.48
1:AA:284:G:H2'	1:AA:285:G:H8	1.77	0.48
1:AA:307:C:O5'	1:AA:307:C:H6	1.96	0.48
1:AA:321:A:H62	1:AA:328:C:C2'	2.26	0.48
1:AA:34:C:O2'	1:AA:35:G:H5'	2.12	0.48
1:AA:367:U:O2'	1:AA:368:U:OP1	2.27	0.48
1:AA:375:U:N3	1:AA:376:G:N7	2.61	0.48
1:AA:422:C:O2	1:AA:422:C:H2'	2.12	0.48
1:AA:455:C:N3	1:AA:478:A:C2	2.81	0.48
1:AA:497:U:O2'	1:AA:498:A:H5'	2.13	0.48
1:AA:657:G:C2'	1:AA:658:G:H5'	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:780:A:N7	1:AA:800:G:C6	2.81	0.48
1:AA:896:C:C2	1:AA:897:C:C5	3.01	0.48
1:AA:937:A:C2	1:AA:1379:G:C6	3.01	0.48
3:AD:40:C:C3'	3:AD:41:G:H5''	2.42	0.48
3:AD:49:G:C6	3:AD:50:G:N7	2.81	0.48
3:AD:76:A:C2'	25:BA:2432:A:H4'	2.43	0.48
5:AE:115:LEU:HA	5:AE:118:LEU:HD12	1.94	0.48
5:AE:50:GLU:CG	5:AE:200:ILE:HB	2.44	0.48
5:AE:69:LEU:CD1	5:AE:69:LEU:C	2.80	0.48
5:AE:79:ASP:HA	5:AE:82:ARG:HB3	1.94	0.48
5:AE:80:ILE:HD12	5:AE:208:ILE:HG12	1.96	0.48
7:AG:108:LEU:HD12	7:AG:110:PHE:HE2	1.78	0.48
8:AH:116:THR:C	8:AH:117:ASP:OD1	2.52	0.48
8:AH:150:ARG:HE	8:AH:150:ARG:HA	1.78	0.48
1:AA:15:G:C4'	8:AH:24:ARG:HH22	2.25	0.48
8:AH:81:GLU:CB	8:AH:90:VAL:HG23	2.35	0.48
11:AK:126:LYS:HZ1	11:AK:127:LEU:HB2	1.78	0.48
11:AK:22:GLU:HA	11:AK:63:LEU:HD21	1.89	0.48
11:AK:9:MET:CA	11:AK:26:VAL:HG21	2.40	0.48
11:AK:27:PRO:O	11:AK:32:LYS:HD2	2.14	0.48
11:AK:60:ARG:HG3	11:AK:61:VAL:H	1.78	0.48
1:AA:1250:A:H4'	12:AL:67:GLY:CA	2.43	0.48
13:AM:44:VAL:HG22	13:AM:66:ARG:CB	2.43	0.48
14:AN:90:GLY:C	14:AN:92:GLU:H	2.15	0.48
19:AS:6:LEU:CD2	19:AS:17:TYR:HD2	2.22	0.48
19:AS:58:TYR:HD1	19:AS:59:TRP:N	2.10	0.48
19:AS:61:SER:OG	19:AS:62:VAL:N	2.47	0.48
19:AS:51:VAL:CG1	19:AS:74:LEU:CD2	2.91	0.48
21:AU:34:TYR:O	21:AU:40:LEU:HD12	2.14	0.48
21:AU:44:LEU:HD11	21:AU:45:SER:O	2.13	0.48
1:AA:1312:G:N7	22:AV:3:ARG:O	2.46	0.48
23:AW:62:LEU:HA	23:AW:65:LYS:CG	2.42	0.48
23:AW:87:LYS:O	23:AW:90:GLN:HB2	2.13	0.48
1:AA:1305:G:H5''	24:AX:5:ASP:N	2.28	0.48
49:B1:47:ASP:OD2	49:B1:47:ASP:N	2.45	0.48
52:B4:59:GLU:O	52:B4:60:VAL:CB	2.60	0.48
53:B5:19:ARG:CG	53:B5:19:ARG:O	2.61	0.48
25:BA:770:G:OP1	54:B6:10:ARG:HD2	2.13	0.48
54:B6:46:VAL:HG12	54:B6:47:ARG:N	2.27	0.48
55:B7:21:LYS:NZ	55:B7:21:LYS:CB	2.76	0.48
55:B7:26:LYS:HE3	55:B7:45:GLY:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B7:21:LYS:CG	55:B7:48:PHE:HE1	2.23	0.48
55:B7:54:GLU:O	55:B7:58:ILE:CG1	2.60	0.48
25:BA:103:A:C5	25:BA:104:U:H5	2.31	0.48
25:BA:1152:C:C2'	25:BA:1153:C:C5'	2.90	0.48
25:BA:1205:U:C5	25:BA:1207:C:N4	2.81	0.48
25:BA:1206:G:C3'	25:BA:1207:C:O4'	2.61	0.48
25:BA:1217:C:C2	25:BA:1218:C:C5	3.01	0.48
25:BA:1298:C:O2'	25:BA:1302:A:C8	2.66	0.48
25:BA:1392:A:C6	25:BA:1393:A:C6	3.00	0.48
25:BA:1470:G:N7	25:BA:1519:G:N7	2.61	0.48
25:BA:1521:G:C3'	25:BA:1522:G:H5'	2.42	0.48
25:BA:1534:G:N2	25:BA:1537:C:H5	2.08	0.48
25:BA:1542:G:C8	25:BA:1544:C:C2	3.02	0.48
25:BA:1556:C:C2	25:BA:1557:C:C5	3.01	0.48
25:BA:1633:G:C8	25:BA:1635:G:O6	2.66	0.48
25:BA:1642:G:C2	25:BA:1643:G:C8	3.00	0.48
25:BA:1655:A:H8	25:BA:1655:A:OP2	1.96	0.48
25:BA:1773:A:C6	25:BA:1774:C:O2	2.66	0.48
25:BA:1818:U:O4	28:BD:156:ALA:HB2	2.13	0.48
25:BA:1856:G:H2'	25:BA:1857:G:C4'	2.42	0.48
25:BA:1906:G:C8	25:BA:1929:G:H2'	2.48	0.48
25:BA:193:U:O2'	25:BA:803:U:H5'	2.13	0.48
25:BA:1950:G:N7	25:BA:1951:U:C5	2.81	0.48
25:BA:2079:U:C2	25:BA:2080:G:C8	3.00	0.48
25:BA:2118:U:H5	25:BA:2146:C:H41	1.59	0.48
25:BA:2094:G:C2	25:BA:2196:C:C2	3.01	0.48
25:BA:2210:G:N1	28:BD:70:TRP:CD1	2.81	0.48
25:BA:2299:G:O2'	25:BA:2300:G:H5'	2.12	0.48
25:BA:2371:G:N2	25:BA:2372:G:C2	2.81	0.48
25:BA:2554:U:C5	25:BA:2555:U:O4	2.67	0.48
25:BA:2666:C:C3'	25:BA:2667:C:C5'	2.91	0.48
25:BA:2698:U:C2	25:BA:2699:C:C4	3.02	0.48
25:BA:2722:G:H2'	25:BA:2723:C:O4'	2.13	0.48
25:BA:2844:G:C2'	25:BA:2844:G:N3	2.76	0.48
25:BA:2850:A:C6	25:BA:2851:A:N6	2.81	0.48
25:BA:2866:U:H5''	25:BA:2867:G:OP1	2.13	0.48
25:BA:375:C:O2	25:BA:375:C:C2'	2.59	0.48
25:BA:458:G:O2'	54:B6:40:TRP:NE1	2.45	0.48
25:BA:473:G:N1	25:BA:474:G:C6	2.82	0.48
25:BA:515:A:C4'	25:BA:515:A:C8	2.96	0.48
25:BA:627:A:C6	25:BA:637:A:C1'	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:627:A:H62	25:BA:636:G:C2'	2.25	0.48
25:BA:681:G:N2	25:BA:682:G:C4	2.81	0.48
25:BA:6:A:N3	25:BA:7:G:C8	2.81	0.48
25:BA:802:A:H2'	25:BA:802:A:N3	2.28	0.48
25:BA:878:A:C4	25:BA:879:G:N7	2.81	0.48
25:BA:89:G:OP2	25:BA:91:A:OP1	2.32	0.48
25:BA:988:A:OP1	50:B2:12:PRO:CD	2.55	0.48
27:BC:10:LEU:HA	27:BC:13:LYS:CE	2.43	0.48
27:BC:23:ASP:OD1	27:BC:186:ALA:CB	2.61	0.48
27:BC:89:ALA:HB1	27:BC:154:ARG:CB	2.43	0.48
25:BA:2734:A:HO2'	29:BE:205:ALA:HB3	1.78	0.48
31:BG:55:LYS:O	31:BG:56:ALA:C	2.51	0.48
25:BA:2749:A:H4'	32:BH:62:LYS:CB	2.43	0.48
32:BH:77:LYS:O	32:BH:80:SER:CB	2.60	0.48
36:BN:18:LYS:HG2	36:BN:19:ILE:H	1.69	0.48
36:BN:39:ILE:HD12	36:BN:61:VAL:CG2	2.44	0.48
37:BO:137:LYS:CE	37:BO:137:LYS:CA	2.91	0.48
25:BA:833:U:O2'	37:BO:49:ARG:HD3	2.14	0.48
37:BO:72:PRO:HB3	37:BO:110:TYR:CB	2.44	0.48
38:BP:64:ILE:CG2	38:BP:105:GLU:HB3	2.43	0.48
41:BS:44:ASP:C	41:BS:46:GLU:N	2.66	0.48
41:BS:95:ARG:NH2	41:BS:96:ARG:NH2	2.50	0.48
42:BT:110:VAL:C	42:BT:114:LYS:HE3	2.34	0.48
42:BT:33:ARG:O	42:BT:34:LYS:C	2.52	0.48
42:BT:34:LYS:HE3	42:BT:34:LYS:HA	1.95	0.48
43:BU:60:GLU:OE1	43:BU:101:GLY:CA	2.62	0.48
45:BW:29:TRP:CZ3	45:BW:78:LYS:CB	2.93	0.48
47:BY:51:ALA:O	47:BY:54:HIS:N	2.46	0.48
47:BY:59:LEU:HD11	47:BY:66:SER:OG	2.14	0.48
33:BK:113:ARG:HA	33:BK:131:LYS:NZ	2.27	0.48
34:BL:12:LEU:HD21	34:BL:22:PRO:HB2	1.95	0.48
1:AA:88:C:C2'	1:AA:89:U:OP2	2.62	0.48
26:BB:3:C:C2	26:BB:118:G:C2	3.01	0.48
7:AG:50:ARG:HD3	7:AG:51:PRO:N	2.28	0.48
3:AD:36:A:N6	4:A1:14:A:H61	2.10	0.48
1:AA:1096:C:H2'	1:AA:1097:C:O5'	2.14	0.48
1:AA:1181:G:N7	1:AA:1182:G:C2	2.81	0.48
1:AA:1321:C:C5	1:AA:1322:C:C2'	2.92	0.48
1:AA:1468:A:O2'	1:AA:1469:G:OP1	2.31	0.48
1:AA:179:A:H2'	1:AA:180:U:C6	2.46	0.48
1:AA:250:A:O4'	1:AA:252:U:C6	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:246:A:C6	1:AA:279:A:C5	3.02	0.48
1:AA:246:A:N1	1:AA:279:A:N7	2.60	0.48
1:AA:306:G:C2'	1:AA:307:C:H5'	2.44	0.48
1:AA:323:U:O4	1:AA:324:G:N3	2.46	0.48
1:AA:334:C:H2'	1:AA:335:C:C6	2.49	0.48
1:AA:432:A:C8	1:AA:433:C:C5	3.02	0.48
1:AA:444:C:H2'	1:AA:445:G:H8	1.77	0.48
1:AA:468:A:C8	1:AA:474:G:N7	2.81	0.48
1:AA:519:C:OP2	15:AO:50:SER:O	2.32	0.48
1:AA:533:A:O2'	1:AA:534:U:OP1	2.30	0.48
1:AA:597:G:O2'	1:AA:598:U:H5'	2.14	0.48
1:AA:640:A:C5	1:AA:641:U:C6	3.01	0.48
1:AA:674:G:H1	1:AA:716:A:H61	1.60	0.48
1:AA:728:A:N3	1:AA:728:A:C2'	2.76	0.48
1:AA:787:A:H2'	1:AA:788:U:O5'	2.13	0.48
1:AA:802:A:H2'	1:AA:803:G:O4'	2.13	0.48
1:AA:810:C:O2'	1:AA:811:C:O5'	2.31	0.48
1:AA:832:C:N3	1:AA:833:U:C4	2.81	0.48
3:AD:37:A:C4	3:AD:38:A:C8	3.02	0.48
3:AD:63:G:C2	3:AD:64:C:C2	3.01	0.48
5:AE:125:PRO:O	5:AE:127:ILE:N	2.46	0.48
6:AF:73:PRO:HG2	6:AF:74:GLY:H	1.78	0.48
6:AF:7:PRO:HG3	6:AF:184:TYR:CG	2.49	0.48
8:AH:11:ILE:O	8:AH:13:ILE:HD11	2.13	0.48
8:AH:136:MET:O	8:AH:139:LEU:HB3	2.13	0.48
8:AH:28:PHE:CE1	8:AH:50:GLU:HA	2.47	0.48
9:AI:2:ARG:CG	9:AI:69:GLU:HG2	2.43	0.48
10:AJ:155:ARG:O	10:AJ:156:TRP:CE3	2.66	0.48
11:AK:11:THR:HG22	11:AK:14:ARG:HH21	1.77	0.48
11:AK:126:LYS:HZ1	11:AK:127:LEU:CG	2.26	0.48
11:AK:24:THR:O	11:AK:60:ARG:HA	2.13	0.48
18:AR:22:THR:O	18:AR:27:VAL:HG11	2.13	0.48
18:AR:54:ARG:CD	18:AR:55:GLY:N	2.64	0.48
20:AT:3:LYS:HZ1	20:AT:62:SER:HA	1.79	0.48
20:AT:8:GLY:HA3	20:AT:22:LEU:O	2.13	0.48
22:AV:20:LEU:HD23	22:AV:21:GLU:H	1.78	0.48
22:AV:56:GLN:OE1	22:AV:56:GLN:HA	2.13	0.48
23:AW:76:ALA:C	23:AW:78:ALA:N	2.65	0.48
23:AW:44:ALA:HA	23:AW:92:LEU:HD21	1.96	0.48
24:AX:14:TRP:O	24:AX:15:ARG:C	2.51	0.48
52:B4:12:SER:OG	52:B4:13:LYS:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B4:4:HIS:CB	52:B4:5:PRO:CD	2.90	0.48
53:B5:49:HIS:O	53:B5:50:ARG:CB	2.62	0.48
56:B8:24:TYR:CE2	56:B8:35:ARG:CB	2.94	0.48
25:BA:1139:G:HO2'	25:BA:1142(A):A:H2	1.45	0.48
25:BA:1264:G:H3'	25:BA:1265:A:H5''	1.92	0.48
25:BA:1338:G:C2	25:BA:1393:A:H2	2.32	0.48
25:BA:1372:U:C6	25:BA:1372:U:H3'	2.48	0.48
25:BA:1483:G:N1	25:BA:1484:G:C5	2.81	0.48
25:BA:1491:G:O3'	25:BA:1492:G:H4'	2.13	0.48
25:BA:1528:A:N1	25:BA:1545:A:C6	2.80	0.48
25:BA:1539:G:C8	25:BA:1540:G:N7	2.81	0.48
25:BA:1635:G:C5	25:BA:1636:C:C5	3.02	0.48
25:BA:1755:A:N6	25:BA:2694:G:H1'	2.28	0.48
25:BA:760:G:H5'	25:BA:1776:G:OP1	2.14	0.48
25:BA:1861:G:C2	25:BA:1862:G:C8	3.02	0.48
25:BA:1907:G:O6	25:BA:1924:C:N4	2.46	0.48
25:BA:2004:G:C6	25:BA:2005:A:C4	3.00	0.48
25:BA:2013:A:H2'	25:BA:2014:A:H8	1.78	0.48
25:BA:2082:A:C2	25:BA:2083:G:N9	2.81	0.48
25:BA:2132:U:O2	25:BA:2133:G:H5'	2.13	0.48
25:BA:46:C:C6	25:BA:215:G:H8	2.31	0.48
25:BA:2322:A:OP1	25:BA:2322:A:O4'	2.32	0.48
25:BA:2284:C:HO2'	25:BA:2325:G:N2	2.11	0.48
25:BA:2449:U:H5'	25:BA:2450:A:OP2	2.13	0.48
25:BA:262:A:H5''	25:BA:609(A):G:H5'	1.95	0.48
25:BA:2741:A:H2'	25:BA:2742:C:C6	2.40	0.48
25:BA:2893:G:C2'	25:BA:2894:G:OP2	2.62	0.48
25:BA:301:G:N2	25:BA:302:C:C2	2.82	0.48
25:BA:310:A:C2'	25:BA:311:A:O5'	2.62	0.48
25:BA:596:G:H2'	25:BA:596:G:N3	2.26	0.48
25:BA:603:A:C6	25:BA:625:G:C5	3.02	0.48
25:BA:604:G:O2'	25:BA:605:C:O5'	2.26	0.48
25:BA:638:G:O2'	25:BA:639:U:H5'	2.14	0.48
25:BA:740:U:H2'	25:BA:741:G:H8	1.78	0.48
25:BA:684:G:N2	25:BA:794:G:C2	2.82	0.48
25:BA:838:C:N3	25:BA:941:A:N7	2.61	0.48
25:BA:8:A:C4	25:BA:9:U:C5	3.02	0.48
25:BA:982:C:C5'	25:BA:983:A:OP1	2.62	0.48
26:BB:53:A:H2'	26:BB:54:G:O5'	2.12	0.48
26:BB:7:G:OP1	40:BR:29:PHE:CE1	2.66	0.48
27:BC:18:LYS:NZ	27:BC:20:TYR:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:151:LYS:HD2	28:BD:154:LYS:NZ	2.28	0.48
25:BA:1820:U:C5	28:BD:159:ALA:HB3	2.48	0.48
28:BD:182:LEU:N	28:BD:270:ILE:HG13	2.27	0.48
25:BA:1790:C:O2'	28:BD:213:ARG:CZ	2.60	0.48
28:BD:225:ALA:HB3	28:BD:231:HIS:NE2	2.28	0.48
28:BD:232:PRO:HG3	28:BD:248:SER:O	2.13	0.48
28:BD:265:PRO:C	28:BD:267:SER:H	2.17	0.48
28:BD:8:PRO:CD	28:BD:26:LYS:N	2.64	0.48
29:BE:171:GLU:HB2	29:BE:185:LYS:CD	2.35	0.48
29:BE:171:GLU:O	29:BE:184:VAL:CB	2.60	0.48
29:BE:196:VAL:C	29:BE:197:ILE:HD12	2.34	0.48
29:BE:3:GLY:O	29:BE:197:ILE:CG2	2.61	0.48
29:BE:59:VAL:O	29:BE:62:PRO:HB2	2.14	0.48
29:BE:91:VAL:HG13	29:BE:93:VAL:CG1	2.43	0.48
30:BF:156:LEU:HD12	30:BF:167:ALA:CB	2.42	0.48
30:BF:43:LYS:HD2	30:BF:99:TYR:N	2.27	0.48
30:BF:81:PRO:HD2	30:BF:82:ILE:HD12	1.95	0.48
31:BG:34:LEU:HD23	31:BG:172:LEU:CD1	2.41	0.48
32:BH:43:VAL:HG13	32:BH:44:VAL:H	1.79	0.48
35:BM:57:ALA:CA	35:BM:124:ALA:HA	2.43	0.48
35:BM:18:ALA:N	35:BM:21:LYS:NZ	2.57	0.48
35:BM:6:PRO:CG	35:BM:41:ASP:O	2.54	0.48
35:BM:87:LEU:O	35:BM:90:MET:HB3	2.13	0.48
36:BN:97:ARG:HG2	36:BN:117:LEU:CD1	2.44	0.48
37:BO:16:ARG:CG	37:BO:19:VAL:HG13	2.43	0.48
41:BS:21:GLU:OE1	41:BS:23:ARG:HG3	2.13	0.48
41:BS:31:SER:N	41:BS:32:TYR:CZ	2.82	0.48
41:BS:53:ARG:NE	41:BS:53:ARG:CA	2.59	0.48
41:BS:67:SER:CB	41:BS:75:ILE:HG23	2.42	0.48
42:BT:104:GLN:O	42:BT:108:GLU:OE2	2.31	0.48
42:BT:61:TRP:CZ3	42:BT:93:LYS:CA	2.96	0.48
42:BT:96:ALA:O	42:BT:98:LEU:N	2.46	0.48
43:BU:83:ARG:C	43:BU:83:ARG:CD	2.71	0.48
43:BU:90:PRO:O	43:BU:91:TYR:CD1	2.66	0.48
44:BV:15:ARG:CB	44:BV:16:LYS:HD3	2.44	0.48
44:BV:29:LEU:HD23	44:BV:30:GLU:N	2.28	0.48
44:BV:71:VAL:HG23	44:BV:105:VAL:HG22	1.94	0.48
45:BW:63:LYS:N	45:BW:72:LYS:HG2	2.28	0.48
46:BX:29:GLU:OE1	46:BX:32:PRO:CB	2.62	0.48
46:BX:67:LEU:CD1	46:BX:71:LYS:HZ1	2.26	0.48
25:BA:896:A:P	47:BY:146:ILE:HG22	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BZ:41:ARG:HB3	48:BZ:41:ARG:HH11	1.78	0.48
33:BK:122:GLU:HB2	33:BK:126:TYR:OH	2.13	0.48
34:BL:20:ALA:HB3	34:BL:21:PRO:HD3	1.95	0.48
34:BL:35:MET:O	34:BL:38:VAL:HB	2.13	0.48
34:BL:42:ASN:O	34:BL:43:ALA:C	2.50	0.48
1:AA:1004:A:H3'	1:AA:1025:U:H3	1.78	0.48
25:BA:2340:G:O2'	25:BA:2341:G:H5'	2.13	0.48
1:AA:1242:C:O2'	1:AA:1303:C:C5'	2.61	0.48
1:AA:1407:C:C2'	1:AA:1408:A:O4'	2.55	0.48
1:AA:1464:G:P	41:BS:112:ARG:NH2	2.86	0.48
1:AA:148:G:C2	1:AA:175:C:N3	2.81	0.48
1:AA:227:G:H2'	1:AA:228:A:C8	2.48	0.48
1:AA:251:G:H4'	1:AA:252:U:OP1	2.08	0.48
1:AA:314:C:H2'	1:AA:315:A:C1'	2.43	0.48
1:AA:106:C:O2	1:AA:379:C:C5'	2.62	0.48
1:AA:458:C:C4	1:AA:464:G:C6	3.01	0.48
1:AA:475:G:C2	1:AA:476:G:C5	3.02	0.48
1:AA:578:C:O2'	1:AA:728:A:H2'	2.13	0.48
1:AA:627:G:O2'	1:AA:628:G:C5'	2.58	0.48
1:AA:674:G:H1	1:AA:716:A:N6	2.12	0.48
1:AA:674:G:P	9:AI:87:ARG:NH2	2.86	0.48
1:AA:719:C:O2	21:AU:49:LYS:C	2.50	0.48
1:AA:782:A:C8	1:AA:783:C:C6	3.01	0.48
1:AA:832:C:N3	1:AA:855:G:C6	2.82	0.48
1:AA:947:G:O2'	1:AA:948:C:C5'	2.62	0.48
3:AD:8:U:O4	3:AD:14:A:N7	2.46	0.48
5:AE:16:HIS:HA	5:AE:210:SER:OG	2.12	0.48
5:AE:234:PRO:HB2	5:AE:238:LEU:HD22	1.95	0.48
5:AE:208:ILE:HD12	5:AE:239:VAL:HG11	1.96	0.48
5:AE:27:LYS:CA	5:AE:27:LYS:HE2	2.43	0.48
5:AE:74:LYS:HZ1	5:AE:76:GLN:HG3	1.79	0.48
5:AE:81:VAL:CG1	5:AE:92:TYR:HD1	2.13	0.48
6:AF:12:LEU:C	6:AF:14:ILE:H	2.16	0.48
6:AF:24:ALA:CB	6:AF:28:GLN:OE1	2.61	0.48
6:AF:5:ILE:HG22	13:AM:51:ARG:NH2	2.28	0.48
7:AG:106:TYR:HB3	7:AG:114:ARG:HE	1.77	0.48
7:AG:148:VAL:O	7:AG:149:ALA:C	2.52	0.48
7:AG:150:GLU:C	7:AG:152:SER:N	2.65	0.48
7:AG:24:GLU:CD	7:AG:25:ARG:HB2	2.33	0.48
8:AH:106:PRO:O	8:AH:110:LEU:HB2	2.14	0.48
1:AA:1298:C:H5	10:AJ:114:ARG:HB3	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:126:LYS:HD2	11:AK:127:LEU:CA	2.43	0.48
11:AK:20:TYR:CD1	11:AK:65:TYR:CE2	3.02	0.48
12:AL:31:GLN:OE1	12:AL:31:GLN:N	2.46	0.48
12:AL:4:TYR:CE1	12:AL:59:PHE:HZ	2.28	0.48
13:AM:48:THR:OG1	13:AM:62:HIS:HD2	1.96	0.48
15:AO:70:ILE:HA	15:AO:100:ILE:HG12	1.94	0.48
16:AP:23:TYR:HD2	16:AP:70:LEU:HD13	1.78	0.48
16:AP:37:THR:OG1	16:AP:56:LEU:CA	2.53	0.48
18:AR:53:HIS:NE2	18:AR:57:LEU:HD11	2.29	0.48
18:AR:75:PRO:HA	18:AR:78:TYR:CB	2.38	0.48
19:AS:19:ILE:HD11	19:AS:39:TYR:CB	2.40	0.48
1:AA:238:G:P	20:AT:25:ARG:HH12	2.36	0.48
23:AW:14:LYS:O	23:AW:16:HIS:N	2.47	0.48
25:BA:1366:A:H5"	51:B3:1:MET:H1	1.76	0.48
51:B3:18:CYS:N	51:B3:33:VAL:HB	2.29	0.48
25:BA:459:U:OP1	54:B6:40:TRP:CG	2.66	0.48
55:B7:14:VAL:CG1	55:B7:14:VAL:O	2.59	0.48
25:BA:1033:U:C5	25:BA:2750:A:N3	2.81	0.48
25:BA:1119:C:O2	25:BA:1119:C:C2'	2.53	0.48
25:BA:1198:U:C2	25:BA:1199:U:H5	2.31	0.48
25:BA:1388:G:O2'	25:BA:1389:G:H5'	2.14	0.48
25:BA:1416:G:N2	25:BA:1582:C:N3	2.62	0.48
25:BA:1424:G:H2'	25:BA:1425:G:C5'	2.44	0.48
25:BA:1460:A:N1	25:BA:1732:A:C6	2.80	0.48
25:BA:1537:C:C3'	25:BA:1537:C:C6	2.97	0.48
25:BA:1646:C:H3'	25:BA:1647:G:C5'	2.33	0.48
25:BA:1670:C:OP1	25:BA:1671:U:OP2	2.31	0.48
25:BA:1827:C:OP1	25:BA:1971:A:O2'	2.28	0.48
25:BA:1938:A:H5"	25:BA:1939:U:P	2.53	0.48
25:BA:1948:G:N2	25:BA:1949:G:C4	2.81	0.48
25:BA:2056:G:OP2	25:BA:2057:A:OP2	2.30	0.48
25:BA:2078:C:C4	25:BA:2079:U:C4	3.01	0.48
25:BA:2118:U:H4'	25:BA:2119:A:OP1	2.13	0.48
25:BA:2132:U:H2'	25:BA:2132:U:O2	2.12	0.48
25:BA:2126:A:H61	25:BA:2172:U:C5'	2.26	0.48
25:BA:2352:A:N1	48:BZ:34:GLY:CA	2.77	0.48
25:BA:2378:A:C4	40:BR:20:ARG:NH2	2.82	0.48
25:BA:2396:G:O6	25:BA:2421:G:O6	2.31	0.48
25:BA:2400:G:C6	25:BA:2401:U:C4	3.01	0.48
25:BA:2493:U:H6	25:BA:2493:U:C4'	2.26	0.48
25:BA:250:G:C2'	25:BA:251:A:O5'	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2634:G:O2'	25:BA:2635:C:C5'	2.61	0.48
25:BA:2712(A):A:H3'	25:BA:2712(A):A:C8	2.49	0.48
25:BA:1660:C:H4'	25:BA:2712(A):A:N6	2.29	0.48
25:BA:527:C:H5''	25:BA:2779:U:N3	2.28	0.48
25:BA:2781:A:O3'	25:BA:2782:G:C4'	2.61	0.48
25:BA:2835:A:N6	25:BA:2879:C:OP2	2.46	0.48
25:BA:2850:A:C2	39:BQ:61:HIS:CE1	3.01	0.48
25:BA:291:C:C4	25:BA:292:C:C4	3.02	0.48
25:BA:325:G:C6	25:BA:326:G:O6	2.66	0.48
25:BA:270(C):C:P	25:BA:365:C:O2'	2.72	0.48
25:BA:446:G:OP1	42:BT:3:ARG:CD	2.57	0.48
25:BA:455:C:O4'	25:BA:455:C:OP1	2.31	0.48
25:BA:495:G:H5''	44:BV:4:LYS:CB	2.43	0.48
25:BA:545:G:O5'	25:BA:545:G:C8	2.60	0.48
25:BA:616:A:HO2'	25:BA:617:G:C1'	2.26	0.48
25:BA:619:G:O6	30:BF:103:LYS:NZ	2.46	0.48
25:BA:638:G:C2'	25:BA:639:U:H5'	2.43	0.48
25:BA:64:A:H2'	25:BA:65:C:O4'	2.13	0.48
25:BA:727:A:N3	25:BA:727:A:H2'	2.27	0.48
25:BA:729:G:H2'	25:BA:730:C:C3'	2.43	0.48
25:BA:684:G:C2	25:BA:775:G:C6	3.01	0.48
25:BA:775:G:N3	25:BA:787:U:H2'	2.26	0.48
25:BA:794:G:O2'	25:BA:795:C:O5'	2.31	0.48
25:BA:885:C:N4	25:BA:892:G:C5	2.81	0.48
25:BA:907:U:C2	25:BA:908:C:C6	3.01	0.48
25:BA:918:A:O4'	25:BA:918:A:N3	2.46	0.48
25:BA:939:G:O2'	25:BA:940:G:H5'	2.13	0.48
25:BA:972:G:C3'	25:BA:973:A:H5'	2.33	0.48
25:BA:977:G:C2'	25:BA:978:G:C4'	2.92	0.48
26:BB:75:G:OP1	47:BY:36:LYS:NZ	2.40	0.48
27:BC:120:MET:HG3	27:BC:145:VAL:HG13	1.94	0.48
27:BC:193:ILE:HG12	27:BC:226:PRO:HB2	1.94	0.48
28:BD:13:ARG:HH11	28:BD:22:SER:HB2	1.76	0.48
28:BD:148:GLU:CG	28:BD:154:LYS:HZ2	2.27	0.48
28:BD:7:LYS:HZ3	28:BD:198:ASN:ND2	2.11	0.48
25:BA:2821:A:OP2	29:BE:110:GLY:HA3	2.14	0.48
29:BE:120:TRP:HZ2	29:BE:122:PHE:O	1.95	0.48
29:BE:171:GLU:O	29:BE:184:VAL:O	2.32	0.48
29:BE:38:THR:N	29:BE:39:PRO:CD	2.77	0.48
29:BE:51:PHE:CG	29:BE:52:LEU:N	2.80	0.48
29:BE:79:ARG:C	29:BE:80:GLU:OE1	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:182:ASN:OD1	30:BF:185:ASP:OD1	2.30	0.48
31:BG:104:GLU:HG3	31:BG:105:LYS:N	2.28	0.48
31:BG:141:PHE:O	31:BG:143:GLU:N	2.45	0.48
31:BG:144:ILE:HG23	31:BG:147:ASP:OD2	2.13	0.48
31:BG:68:PRO:HG3	31:BG:90:LEU:CD2	2.43	0.48
33:BK:9:LEU:CA	33:BK:17:GLN:HE22	2.22	0.48
38:BP:27:VAL:HG13	38:BP:104:PHE:CE2	2.39	0.48
39:BQ:83:ILE:C	39:BQ:85:PRO:HD2	2.34	0.48
35:BM:4:TYR:HB3	42:BT:64:ARG:HH12	1.77	0.48
42:BT:8:VAL:CG1	42:BT:12:ARG:HH21	2.26	0.48
43:BU:15:GLU:HB3	43:BU:16:PRO:CD	2.43	0.48
43:BU:17:GLY:O	43:BU:19:LYS:N	2.38	0.48
43:BU:28:GLU:C	43:BU:30:GLY:N	2.67	0.48
25:BA:1322:A:C5'	44:BV:11:ARG:NH1	2.77	0.48
44:BV:20:VAL:CG1	44:BV:47:VAL:HG11	2.43	0.48
25:BA:493:G:H4'	44:BV:8:ARG:HB2	1.95	0.48
25:BA:336:C:O3'	46:BX:6:HIS:CE1	2.66	0.48
47:BY:110:GLY:N	47:BY:144:LEU:HB2	2.29	0.48
47:BY:37:VAL:O	47:BY:38:TYR:CD2	2.59	0.48
33:BK:125:GLU:CG	33:BK:143:SER:CB	2.92	0.48
33:BK:93:THR:O	33:BK:93:THR:CG2	2.62	0.48
34:BL:103:GLN:O	34:BL:106:GLU:CG	2.57	0.48
34:BL:9:LYS:HA	34:BL:56:GLU:HG3	1.94	0.48
1:AA:1031:G:H2'	1:AA:1032:A:C8	2.49	0.48
4:A1:15:A:C4'	4:A1:15:A:C8	2.96	0.48
1:AA:1138:G:C6	1:AA:1140:C:N1	2.82	0.48
1:AA:1143:G:N3	1:AA:1144:G:C8	2.81	0.48
1:AA:116:A:N7	1:AA:117:G:N7	2.61	0.48
1:AA:1229:A:O2'	1:AA:1230:C:H5'	2.13	0.48
1:AA:1280:A:H5''	13:AM:40:LEU:HD22	1.96	0.48
1:AA:1316:G:C2'	1:AA:1317:C:O5'	2.61	0.48
1:AA:1348:U:H2'	1:AA:1348:U:O2	2.12	0.48
1:AA:1373:G:O2'	10:AJ:34:GLY:HA2	2.13	0.48
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.77	0.48
1:AA:1404:C:H6	1:AA:1404:C:O5'	1.96	0.48
1:AA:130:A:C2	1:AA:264:U:H6	2.31	0.48
1:AA:36:C:C2	1:AA:37:U:C6	3.01	0.48
1:AA:390:C:C3'	1:AA:390:C:C6	2.96	0.48
1:AA:44:G:C2	1:AA:45:U:H1'	2.48	0.48
1:AA:452:A:C6	1:AA:453:A:C6	3.02	0.48
1:AA:579:G:C3'	1:AA:580:U:H5'	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:598:U:C4'	11:AK:94:TYR:CD2	2.86	0.48
1:AA:657:G:C6	1:AA:658:G:N7	2.82	0.48
1:AA:671:G:C2'	1:AA:672:U:O4'	2.61	0.48
1:AA:761:G:H1'	20:AT:104:LYS:C	2.34	0.48
1:AA:766:A:C5	1:AA:814:A:C2	3.02	0.48
1:AA:816:A:HO2'	1:AA:817:C:P	2.36	0.48
1:AA:756:C:H4'	1:AA:823:G:O2'	2.13	0.48
1:AA:826:C:N4	1:AA:827:U:O4	2.46	0.48
1:AA:852:G:C6	1:AA:853:G:N7	2.82	0.48
1:AA:867:G:O2'	1:AA:868:C:H5'	2.14	0.48
1:AA:935:A:H2'	1:AA:936:C:H6	1.77	0.48
1:AA:945:G:N2	1:AA:1337:G:C2	2.81	0.48
1:AA:952:U:C5'	1:AA:972:C:H41	2.20	0.48
1:AA:991:U:H2'	1:AA:993:G:H8	1.79	0.48
2:AC:53:G:O2'	2:AC:54:U:H5'	2.13	0.48
5:AE:104:ASN:ND2	5:AE:108:ILE:CG1	2.69	0.48
5:AE:132:LYS:NZ	5:AE:132:LYS:CB	2.77	0.48
5:AE:169:LYS:O	5:AE:170:GLU:C	2.49	0.48
6:AF:43:LEU:HD11	6:AF:55:VAL:CG1	2.43	0.48
7:AG:10:ARG:HD2	7:AG:11:LEU:HD23	1.94	0.48
7:AG:133:VAL:HG13	7:AG:135:LEU:HG	1.95	0.48
8:AH:125:SER:O	8:AH:127:ASN:N	2.45	0.48
8:AH:12:LEU:HD11	8:AH:14:ARG:HB3	1.96	0.48
8:AH:18:ARG:NH2	8:AH:25:ARG:CG	2.76	0.48
1:AA:738:C:OP2	9:AI:92:LYS:HE3	2.13	0.48
1:AA:1351:U:O2'	10:AJ:33:ASP:OD2	2.25	0.48
10:AJ:2:ALA:HB2	10:AJ:7:ALA:CB	2.44	0.48
10:AJ:91:VAL:O	10:AJ:91:VAL:CG1	2.61	0.48
11:AK:112:LEU:HD21	11:AK:119:LEU:HB2	1.95	0.48
11:AK:67:PRO:O	11:AK:68:ARG:C	2.49	0.48
12:AL:118:LYS:C	12:AL:120:ARG:N	2.64	0.48
12:AL:38:GLN:C	12:AL:40:LEU:N	2.66	0.48
12:AL:45:ALA:CB	12:AL:74:ILE:HG22	2.44	0.48
15:AO:58:VAL:HG12	15:AO:59:ARG:N	2.27	0.48
16:AP:14:ARG:CB	16:AP:44:ARG:HD2	2.44	0.48
16:AP:48:LEU:HD21	16:AP:52:GLU:HB2	1.94	0.48
18:AR:41:GLU:O	18:AR:44:LYS:HB2	2.13	0.48
18:AR:57:LEU:HA	18:AR:60:VAL:HG23	1.94	0.48
20:AT:97:SER:HB2	20:AT:104:LYS:H	1.78	0.48
20:AT:40:LYS:CB	20:AT:42:TYR:HE1	2.26	0.48
20:AT:4:LYS:C	20:AT:5:VAL:HG23	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:60:ILE:CG1	20:AT:61:GLU:O	2.55	0.48
21:AU:53:ARG:NH1	21:AU:63:GLN:HB2	2.28	0.48
21:AU:55:ARG:HH11	21:AU:55:ARG:C	2.17	0.48
23:AW:89:ARG:O	23:AW:93:GLU:HG3	2.14	0.48
50:B2:26:LEU:HB2	50:B2:28:LEU:HD21	1.95	0.48
54:B6:5:TRP:CE3	54:B6:5:TRP:CA	2.97	0.48
55:B7:50:LEU:CA	55:B7:53:PRO:HG3	2.43	0.48
25:BA:1011:G:C5	25:BA:1013:C:C6	3.02	0.48
25:BA:1129:A:H4'	25:BA:2515:C:O2'	2.13	0.48
25:BA:1166:C:O2	25:BA:1184:G:N2	2.46	0.48
25:BA:120:U:O2'	25:BA:121:G:P	2.71	0.48
25:BA:1323:U:C2	25:BA:1331:A:N1	2.81	0.48
25:BA:1337:G:C6	25:BA:1338:G:C5	3.01	0.48
25:BA:1350:C:H2'	25:BA:1351:C:H5'	1.95	0.48
25:BA:1417:C:C2'	25:BA:1418:G:O5'	2.60	0.48
25:BA:1456:G:N3	25:BA:1457:A:C8	2.81	0.48
25:BA:1459:G:O6	25:BA:1461:G:C5	2.67	0.48
25:BA:1496:A:C2'	25:BA:1497:U:C5	2.95	0.48
25:BA:1524:G:C6	25:BA:1525:G:N7	2.82	0.48
25:BA:1625:C:H2'	25:BA:1626:G:O4'	2.12	0.48
25:BA:1656:C:N3	25:BA:1657:C:N4	2.61	0.48
25:BA:1661:G:H2'	25:BA:1662:C:O5'	2.13	0.48
25:BA:1664:A:O5'	25:BA:1665:A:OP2	2.32	0.48
25:BA:1769:G:H2'	25:BA:1770:G:C8	2.47	0.48
25:BA:1827:C:O2'	25:BA:1828:G:H5'	2.14	0.48
25:BA:1893:C:H2'	25:BA:1894:C:H6	1.79	0.48
25:BA:1998:G:C8	25:BA:1998:G:H3'	2.48	0.48
25:BA:2014:A:N9	25:BA:2015:A:H2	2.11	0.48
25:BA:2019:A:N1	25:BA:2020:A:C4	2.81	0.48
25:BA:204:A:HO2'	25:BA:205:G:P	2.33	0.48
25:BA:197:A:H5''	25:BA:2068:U:O4	2.13	0.48
25:BA:2080:G:C2	25:BA:2081:C:C6	3.02	0.48
25:BA:2406:U:C4	37:BO:65:ARG:CB	2.93	0.48
25:BA:2246:G:C4	25:BA:2426:A:C2	3.02	0.48
25:BA:2469:A:C5	25:BA:2470:G:C8	3.02	0.48
25:BA:2488:A:H2'	25:BA:2489:G:H8	1.77	0.48
25:BA:2578:G:O2'	25:BA:2579:C:O5'	2.29	0.48
25:BA:2553:G:C6	25:BA:2583:G:O2'	2.67	0.48
25:BA:1782:C:N4	25:BA:2587:A:N6	2.60	0.48
25:BA:784:A:P	25:BA:2588:G:H5''	2.54	0.48
25:BA:2597:G:C2	25:BA:2598:A:C2	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2622:C:H2'	25:BA:2623:G:O4'	2.14	0.48
25:BA:2623:G:N3	25:BA:2623:G:H2'	2.29	0.48
25:BA:2681:C:H1'	25:BA:2682:U:C5	2.49	0.48
25:BA:270(Y):G:H5''	25:BA:270(Z):U:OP1	2.13	0.48
25:BA:2759:G:N1	25:BA:2760:C:C4	2.82	0.48
25:BA:2849:U:C2'	25:BA:2850:A:OP2	2.60	0.48
25:BA:332:A:H4'	25:BA:333:G:OP1	2.13	0.48
25:BA:364:C:O2'	25:BA:365:C:C5'	2.60	0.48
25:BA:223:A:N1	25:BA:408:G:O4'	2.46	0.48
25:BA:489:G:C2	25:BA:491:G:C1'	2.97	0.48
25:BA:571:A:N3	25:BA:2030:A:N7	2.61	0.48
25:BA:720:C:O2'	25:BA:721:C:O5'	2.31	0.48
25:BA:784:A:N7	25:BA:792:G:C2	2.82	0.48
25:BA:839:U:C2	25:BA:940:G:N1	2.82	0.48
25:BA:898:C:H3'	25:BA:899:A:C5'	2.41	0.48
25:BA:943:U:C5'	37:BO:35:HIS:NE2	2.76	0.48
25:BA:945:A:O2'	25:BA:946:G:O5'	2.30	0.48
25:BA:950:G:C4	25:BA:951:C:C5	3.01	0.48
26:BB:45:A:C2'	26:BB:46:A:O5'	2.60	0.48
26:BB:49:C:OP1	40:BR:96:GLY:CA	2.61	0.48
28:BD:129:ASN:O	28:BD:193:VAL:CB	2.61	0.48
28:BD:177:LEU:HB2	28:BD:178:PRO:HD2	1.96	0.48
28:BD:237:GLU:HB3	28:BD:239:ARG:HD3	1.93	0.48
25:BA:1804:C:C5'	28:BD:250:TRP:CH2	2.97	0.48
25:BA:1804:C:OP1	28:BD:257:LEU:HD21	2.14	0.48
28:BD:59:LYS:HD2	28:BD:59:LYS:C	2.34	0.48
28:BD:37:LEU:HD21	28:BD:63:ARG:N	2.29	0.48
29:BE:119:ARG:HE	29:BE:120:TRP:N	2.11	0.48
30:BF:142:TRP:CD1	30:BF:142:TRP:C	2.85	0.48
30:BF:146:ALA:O	30:BF:148:LEU:CD2	2.61	0.48
30:BF:207:GLY:O	30:BF:209:GLU:N	2.47	0.48
32:BH:103:LEU:HD13	32:BH:115:VAL:HG21	1.96	0.48
32:BH:149:ARG:HG2	32:BH:153:LYS:CD	2.43	0.48
32:BH:148:ILE:HA	32:BH:151:ILE:CG2	2.42	0.48
32:BH:6:ARG:C	32:BH:69:ARG:NE	2.64	0.48
35:BM:69:GLN:OE1	35:BM:87:LEU:CD2	2.62	0.48
29:BE:152:LYS:HZ3	35:BM:77:GLY:HA3	1.75	0.48
36:BN:23:ARG:CG	36:BN:40:VAL:HG11	2.42	0.48
36:BN:3:GLN:HB2	36:BN:6:THR:HB	1.94	0.48
36:BN:14:THR:HG22	36:BN:85:VAL:CG2	2.43	0.48
37:BO:72:PRO:HA	37:BO:110:TYR:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:72:PRO:C	37:BO:107:LYS:HE3	2.34	0.48
38:BP:109:VAL:HG11	38:BP:114:ALA:CB	2.44	0.48
38:BP:59:ARG:HA	38:BP:60:ARG:NH1	2.27	0.48
38:BP:6:ARG:HG2	38:BP:7:MET:H	1.79	0.48
41:BS:83:ILE:CG2	41:BS:84:GLN:N	2.76	0.48
43:BU:43:GLU:N	43:BU:44:LYS:CE	2.76	0.48
44:BV:82:LEU:HB3	44:BV:98:LYS:HZ2	1.78	0.48
45:BW:55:ASN:C	45:BW:56:THR:HG23	2.33	0.48
46:BX:98:VAL:C	46:BX:99:CYS:SG	2.92	0.48
47:BY:98:MET:O	47:BY:125:LEU:O	2.31	0.48
47:BY:40:ASP:N	47:BY:44:PHE:CE1	2.81	0.48
47:BY:50:GLN:CB	47:BY:53:ILE:HG13	2.42	0.48
48:BZ:21:LEU:HA	48:BZ:39:ARG:CB	2.38	0.48
33:BK:50:ARG:HA	33:BK:53:ALA:HB3	1.94	0.48
33:BK:77:LEU:HD11	33:BK:142:VAL:HG22	1.94	0.48
34:BL:71:THR:CG2	34:BL:113:PRO:HB2	2.43	0.48
1:AA:1447:G:C4	1:AA:1448:C:C5	3.01	0.48
4:A1:11:U:OP1	14:AN:127:LYS:HB3	2.14	0.48
3:AD:6:G:H2'	3:AD:7:G:O4'	2.13	0.48
25:BA:277:C:OP2	25:BA:277:C:O4'	2.32	0.48
1:AA:1289:A:H2'	1:AA:1290:G:O5'	2.14	0.48
1:AA:1450:U:O2	1:AA:1453:G:N2	2.33	0.48
1:AA:159:G:C2	1:AA:163:C:N4	2.82	0.48
1:AA:294:U:O2	1:AA:294:U:C2'	2.60	0.48
1:AA:313:A:H2'	1:AA:314:C:H5	1.70	0.48
1:AA:34:C:H2'	1:AA:35:G:H8	1.79	0.48
1:AA:427:U:H2'	1:AA:428:G:C8	2.49	0.48
1:AA:515:G:O6	1:AA:533:A:N7	2.47	0.48
1:AA:542:G:C2	1:AA:543:C:C6	3.01	0.48
1:AA:554:C:C2	1:AA:555:C:C5	3.01	0.48
1:AA:558:G:C3'	1:AA:559:A:C5'	2.83	0.48
1:AA:609:A:N3	1:AA:610:G:C8	2.82	0.48
1:AA:701:C:C2	1:AA:703:G:C2	3.01	0.48
1:AA:754:C:H4'	18:AR:72:ARG:CZ	2.42	0.48
1:AA:758:G:H2'	1:AA:759:A:OP2	2.13	0.48
1:AA:809:G:N2	1:AA:810:C:C1'	2.77	0.48
1:AA:889:A:H4'	1:AA:890:G:OP1	2.13	0.48
1:AA:990:C:H2'	1:AA:991:U:N1	2.28	0.48
2:AC:18:G:C2'	2:AC:19:G:O5'	2.61	0.48
5:AE:176:GLU:O	5:AE:180:LEU:HD12	2.13	0.48
5:AE:19:HIS:CE1	5:AE:204:ASN:ND2	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:16:HIS:CD2	5:AE:214:ILE:HG12	2.49	0.48
5:AE:29:ALA:O	5:AE:32:ILE:HB	2.13	0.48
5:AE:45:GLN:O	5:AE:49:GLU:OE2	2.31	0.48
5:AE:64:ARG:HG2	5:AE:66:GLY:H	1.78	0.48
6:AF:11:ARG:HB3	6:AF:11:ARG:HH11	1.78	0.48
6:AF:12:LEU:CD2	17:AQ:57:ARG:HG3	2.44	0.48
6:AF:19:GLU:HB2	17:AQ:52:GLN:HG2	1.96	0.48
7:AG:204:ILE:HD12	7:AG:204:ILE:N	2.21	0.48
7:AG:58:LEU:CD1	7:AG:59:ARG:NH1	2.72	0.48
8:AH:121:LYS:NZ	8:AH:121:LYS:C	2.65	0.48
10:AJ:11:GLN:HA	10:AJ:11:GLN:OE1	2.14	0.48
10:AJ:64:GLN:C	10:AJ:128:ALA:HA	2.34	0.48
11:AK:100:ILE:CG2	11:AK:121:ASP:OD1	2.62	0.48
11:AK:125:ARG:HH11	11:AK:125:ARG:HB2	1.79	0.48
11:AK:35:ILE:CG2	11:AK:39:LEU:HD23	2.42	0.48
5:AE:179:LYS:HG2	11:AK:72:PRO:HB3	1.96	0.48
12:AL:33:PHE:C	12:AL:35:GLU:H	2.16	0.48
12:AL:8:GLY:O	12:AL:76:ALA:HB1	2.14	0.48
12:AL:6:GLY:CA	12:AL:83:ARG:HB3	2.44	0.48
13:AM:24:VAL:O	13:AM:28:ARG:HG3	2.14	0.48
13:AM:18:ALA:CB	13:AM:91:PRO:HB3	2.35	0.48
17:AQ:26:ARG:HB3	17:AQ:43:CYS:HB3	1.91	0.48
17:AQ:30:ALA:HA	17:AQ:33:VAL:HG11	1.94	0.48
19:AS:31:LYS:HG2	19:AS:32:TYR:N	2.29	0.48
21:AU:53:ARG:CD	21:AU:58:LEU:O	2.62	0.48
22:AV:51:VAL:HG21	22:AV:60:VAL:HG21	1.95	0.48
22:AV:46:GLY:N	22:AV:62:ILE:HG23	2.29	0.48
22:AV:45:VAL:HA	22:AV:67:VAL:CG2	2.44	0.48
23:AW:33:ILE:HD13	23:AW:63:ILE:CA	2.41	0.48
49:B1:19:LEU:HD13	49:B1:20:VAL:H	1.75	0.48
49:B1:23:LYS:HZ2	49:B1:23:LYS:HB2	1.79	0.48
50:B2:9:VAL:CG2	50:B2:10:LYS:N	2.65	0.48
54:B6:34:ARG:NH1	54:B6:40:TRP:HB2	2.29	0.48
25:BA:591:C:O2'	55:B7:1:MET:HG3	2.13	0.48
55:B7:42:ARG:HG2	55:B7:43:GLN:HE22	1.78	0.48
25:BA:1021:A:H2'	25:BA:1022:G:OP1	2.14	0.48
25:BA:51:G:H1'	25:BA:118:A:N6	2.29	0.48
25:BA:1323:U:OP2	44:BV:84:ARG:CZ	2.62	0.48
25:BA:1462:C:H3'	25:BA:1463:C:C6	2.48	0.48
25:BA:1551:C:C2	25:BA:1552:G:C8	3.02	0.48
25:BA:1613:G:C2	25:BA:1619:G:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1638:C:C2'	25:BA:1639:U:O4'	2.46	0.48
25:BA:1884:A:H8	25:BA:1884:A:H3'	1.78	0.48
25:BA:1911:U:O4	25:BA:1918:A:OP2	2.32	0.48
25:BA:1839:G:C8	25:BA:1927:A:H1'	2.47	0.48
25:BA:1975:G:C6	25:BA:1976:U:C4	3.01	0.48
25:BA:20:C:C2	25:BA:21:A:C8	3.02	0.48
25:BA:2115:G:H2'	25:BA:2117:A:C5	2.49	0.48
25:BA:2118:U:OP1	25:BA:2147:G:C2	2.67	0.48
25:BA:2134:A:C6	25:BA:2135:A:C2	3.01	0.48
25:BA:2230:G:N1	25:BA:2231:C:C4	2.81	0.48
25:BA:2327:A:O2'	25:BA:2328:A:O4'	2.25	0.48
25:BA:2361:A:H5'	25:BA:2362:G:OP2	2.14	0.48
25:BA:2375:G:N2	25:BA:2378:A:N6	2.57	0.48
25:BA:2542:A:O2'	25:BA:2543:G:C5'	2.61	0.48
25:BA:2555:U:C6	25:BA:2555:U:C3'	2.96	0.48
25:BA:2597:G:H2'	25:BA:2598:A:O4'	2.14	0.48
25:BA:2637:U:OP2	25:BA:2637:U:C6	2.62	0.48
25:BA:270(S):G:C2	25:BA:270(T):G:C8	3.02	0.48
25:BA:2739:U:H6	25:BA:2739:U:H3'	1.79	0.48
25:BA:2741:A:H2'	25:BA:2742:C:O4'	2.12	0.48
25:BA:2764:A:C8	25:BA:2764:A:H3'	2.48	0.48
25:BA:2638:G:C8	25:BA:2775:A:N1	2.81	0.48
25:BA:2795:G:C2'	25:BA:2795:G:N3	2.76	0.48
25:BA:2721:A:O2'	25:BA:2874:C:H5'	2.14	0.48
25:BA:37:C:H2'	25:BA:38:A:H8	1.79	0.48
25:BA:584:C:H2'	25:BA:585:G:O5'	2.14	0.48
25:BA:670:A:H3'	37:BO:41:ARG:CZ	2.44	0.48
25:BA:752:A:O2'	25:BA:753:C:C6	2.63	0.48
25:BA:914:C:H5	25:BA:915:C:C6	2.31	0.48
25:BA:997:G:P	42:BT:92:ARG:HD3	2.54	0.48
26:BB:12:C:C6	48:BZ:74:ARG:CB	2.84	0.48
26:BB:39:A:O2'	26:BB:46:A:C2	2.67	0.48
26:BB:78:A:H5'	47:BY:78:LYS:HD3	1.95	0.48
27:BC:211:SER:CB	27:BC:213:TYR:HH	2.27	0.48
27:BC:45:ALA:HB1	27:BC:211:SER:O	2.14	0.48
28:BD:131:LEU:CD1	28:BD:132:PRO:HD2	2.43	0.48
29:BE:12:THR:N	29:BE:21:VAL:HG23	2.29	0.48
25:BA:2773:C:P	29:BE:164:ARG:HH22	2.36	0.48
29:BE:8:LYS:HZ1	29:BE:193:GLY:HA3	1.78	0.48
30:BF:6:VAL:HB	30:BF:18:ARG:CD	2.43	0.48
31:BG:111:LEU:HG	31:BG:112:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:123:ASN:HB3	31:BG:126:ASP:HB3	1.95	0.48
31:BG:26:GLN:O	31:BG:27:ASN:CB	2.61	0.48
31:BG:39:ILE:HG23	31:BG:157:ILE:HG13	1.93	0.48
32:BH:164:TYR:N	32:BH:164:TYR:CD1	2.68	0.48
32:BH:36:PRO:HD2	32:BH:71:LEU:CD2	2.40	0.48
35:BM:35:ARG:HD3	35:BM:48:MET:HE3	1.95	0.48
36:BN:11:ALA:O	36:BN:12:ASP:CB	2.61	0.48
38:BP:118:LEU:O	38:BP:119:ARG:C	2.52	0.48
38:BP:44:ALA:HB2	38:BP:93:TYR:O	2.14	0.48
38:BP:69:PHE:CD1	38:BP:70:PRO:CD	2.93	0.48
39:BQ:54:LEU:HD12	39:BQ:57:ARG:HD3	1.93	0.48
25:BA:2708:G:C1'	39:BQ:71:GLN:OE1	2.62	0.48
39:BQ:55:ALA:CA	39:BQ:79:LEU:HD21	2.41	0.48
40:BR:52:SER:C	40:BR:53:SER:O	2.51	0.48
40:BR:66:ALA:O	40:BR:68:GLN:N	2.47	0.48
41:BS:110:ILE:O	41:BS:111:ARG:C	2.52	0.48
41:BS:64:ARG:NH2	41:BS:77:PRO:CA	2.76	0.48
42:BT:98:LEU:CA	42:BT:101:ARG:HG2	2.43	0.48
42:BT:111:GLU:CA	42:BT:114:LYS:CE	2.90	0.48
42:BT:55:ARG:NH1	42:BT:55:ARG:CG	2.74	0.48
44:BV:28:SER:N	44:BV:31:GLU:OE2	2.40	0.48
47:BY:10:ARG:N	47:BY:14:LYS:HZ3	2.12	0.48
33:BK:132:PRO:HG3	33:BK:138:ILE:HB	1.96	0.48
25:BA:1087:G:H2'	25:BA:1089:G:O4'	2.14	0.48
34:BL:54:PRO:HG3	34:BL:73:PRO:HD2	1.96	0.48
1:AA:96:G:O2'	1:AA:97:U:H5'	2.14	0.48
4:A1:14:A:C4	4:A1:14:A:C3'	2.95	0.48
1:AA:1100:C:H6	1:AA:1100:C:O5'	1.96	0.48
1:AA:1104:G:C4'	5:AE:111:ARG:HE	2.26	0.48
1:AA:1126:U:C2'	1:AA:1127:G:O5'	2.62	0.48
1:AA:1133:G:C6	1:AA:1142:G:C6	3.02	0.48
1:AA:1148:U:O2	1:AA:1148:U:C2'	2.54	0.48
1:AA:1213:A:C6	1:AA:1215:G:C2	3.02	0.48
1:AA:1266:G:C2'	1:AA:1268:A:OP2	2.52	0.48
1:AA:130:A:C6	1:AA:264:U:H1'	2.49	0.48
1:AA:13:U:O4	1:AA:22:G:N1	2.46	0.48
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.13	0.48
1:AA:1521:G:O2'	1:AA:1522:U:O5'	2.32	0.48
1:AA:1533:C:H2'	1:AA:1534:A:OP2	2.13	0.48
1:AA:191(F):U:H3'	1:AA:191(F):U:C6	2.49	0.48
1:AA:280:C:C4'	1:AA:281:G:OP2	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:414:A:O2'	1:AA:415:A:H5'	2.13	0.48
1:AA:560:U:P	1:AA:566:G:H22	2.36	0.48
1:AA:592:G:C2'	1:AA:593:G:H5'	2.43	0.48
1:AA:597:G:H21	11:AK:94:TYR:HE2	1.52	0.48
1:AA:611:A:N6	1:AA:629:G:C6	2.72	0.48
1:AA:685:G:N2	1:AA:686:U:C4	2.80	0.48
1:AA:688:G:C4	1:AA:700:G:C2	3.02	0.48
1:AA:745:C:H1'	1:AA:836:G:O2'	2.13	0.48
1:AA:784:C:H2'	1:AA:785:G:O5'	2.14	0.48
1:AA:787:A:H2'	1:AA:788:U:C5'	2.44	0.48
1:AA:854:G:OP2	1:AA:871:U:O2	2.31	0.48
1:AA:855:G:C5'	1:AA:871:U:O4	2.62	0.48
1:AA:872:A:C2'	1:AA:873:A:C5'	2.74	0.48
1:AA:872:A:O2'	1:AA:873:A:H8	1.97	0.48
1:AA:887:G:O6	1:AA:888:G:C6	2.67	0.48
1:AA:902:G:O2'	1:AA:903:G:C5'	2.51	0.48
3:AD:59:U:OP2	3:AD:59:U:O4'	2.31	0.48
5:AE:239:VAL:O	5:AE:240:GLN:CB	2.62	0.48
7:AG:24:GLU:OE1	7:AG:25:ARG:CB	2.62	0.48
9:AI:82:ARG:O	9:AI:83:ASP:C	2.51	0.48
10:AJ:104:LEU:O	10:AJ:105:VAL:C	2.51	0.48
10:AJ:111:ARG:HB3	10:AJ:111:ARG:CZ	2.44	0.48
11:AK:21:LYS:O	11:AK:22:GLU:C	2.49	0.48
11:AK:40:ALA:HB2	11:AK:45:ILE:CD1	2.44	0.48
14:AN:26:ASN:O	14:AN:27:ASN:CB	2.61	0.48
1:AA:538:G:C8	15:AO:115:LYS:HE3	2.49	0.48
1:AA:1316:G:H5''	17:AQ:17:LYS:HZ2	1.77	0.48
18:AR:78:TYR:CD2	18:AR:82:ILE:CD1	2.96	0.48
19:AS:55:ARG:HA	19:AS:55:ARG:HE	1.77	0.48
1:AA:453:A:H1'	19:AS:69:THR:HG23	1.95	0.48
20:AT:35:VAL:CG1	20:AT:35:VAL:O	2.61	0.48
20:AT:67:LYS:O	20:AT:67:LYS:HG3	2.12	0.48
20:AT:93:GLN:C	20:AT:95:TYR:N	2.64	0.48
21:AU:79:LEU:N	21:AU:79:LEU:CD1	2.73	0.48
22:AV:15:LEU:HD23	22:AV:15:LEU:H	1.79	0.48
22:AV:17:GLU:HG3	22:AV:18:LYS:H	1.78	0.48
23:AW:88:VAL:CG1	23:AW:92:LEU:HD12	2.41	0.48
49:B1:23:LYS:CE	49:B1:55:LEU:HD21	2.44	0.48
50:B2:26:LEU:CG	50:B2:35:ARG:HH11	2.26	0.48
51:B3:38:LYS:O	51:B3:39:CYS:CB	2.61	0.48
25:BA:400:G:O6	51:B3:63:TYR:HE2	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:B8:9:ARG:C	56:B8:10:ILE:CG1	2.81	0.48
25:BA:1019:U:C3'	25:BA:1019:U:C6	2.97	0.48
25:BA:1205:U:C4	25:BA:1207:C:N4	2.82	0.48
25:BA:1206:G:O3'	25:BA:1207:C:O4'	2.32	0.48
25:BA:1226:G:H3'	25:BA:1226:G:H8	1.78	0.48
25:BA:1301:A:N1	25:BA:1303:G:H1'	2.28	0.48
25:BA:1299:G:H5'	25:BA:1301:A:O4'	2.13	0.48
25:BA:1342:A:N1	25:BA:1397:U:C6	2.81	0.48
25:BA:141:A:H2'	25:BA:141:A:N3	2.27	0.48
25:BA:1431:U:C2	25:BA:1432:C:C6	3.02	0.48
25:BA:143:C:H2'	25:BA:144:C:H6	1.78	0.48
25:BA:1471:A:N7	25:BA:1519:G:C6	2.81	0.48
25:BA:1472:A:C2'	25:BA:1473:G:N7	2.77	0.48
25:BA:1483:G:N3	25:BA:1483:G:C2'	2.76	0.48
25:BA:1620:G:H2'	25:BA:1621:U:H6	1.78	0.48
25:BA:1636:C:O2	25:BA:1636:C:H2'	2.13	0.48
25:BA:1749:A:H2'	25:BA:1750:G:O4'	2.14	0.48
25:BA:1799:G:C2	25:BA:1819:A:C8	3.02	0.48
25:BA:1818:U:O5'	28:BD:158:ALA:HB2	2.14	0.48
25:BA:1819:A:O2'	25:BA:1820:U:O5'	2.31	0.48
25:BA:2209:C:C2'	25:BA:2210:G:C3'	2.73	0.48
25:BA:2326:C:N3	25:BA:2389:G:N1	2.48	0.48
25:BA:237:C:N3	25:BA:238:C:C5	2.82	0.48
25:BA:2396:G:C6	25:BA:2421:G:O6	2.67	0.48
25:BA:2392:A:N1	25:BA:2429:G:C4	2.82	0.48
25:BA:243:U:O2	25:BA:243:U:C2'	2.56	0.48
25:BA:2452:C:N3	25:BA:2453:A:C2	2.81	0.48
25:BA:2543:G:C6	25:BA:2544:G:C6	3.02	0.48
25:BA:2596:U:C4	25:BA:2597:G:C6	3.02	0.48
25:BA:270(A):A:H61	25:BA:270(Y):G:H5''	1.78	0.48
25:BA:2726:U:O2'	25:BA:2727:G:OP1	2.27	0.48
25:BA:2818:G:N2	25:BA:2829:C:C4	2.82	0.48
25:BA:2845:G:O2'	25:BA:2846:G:O5'	2.24	0.48
25:BA:2848:G:O5'	41:BS:99:LEU:HD12	2.13	0.48
25:BA:360:G:C2'	25:BA:361:G:O5'	2.61	0.48
25:BA:388:G:C2	25:BA:390:A:N1	2.82	0.48
25:BA:399:G:N1	25:BA:400:G:H1'	2.29	0.48
25:BA:402:A:C2	25:BA:403:U:H6	2.31	0.48
25:BA:46:C:H2'	25:BA:47:C:H5	1.78	0.48
25:BA:457:A:C2	25:BA:470:A:C5'	2.97	0.48
25:BA:493:G:C2	25:BA:494:G:C8	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:511:U:C5	25:BA:512:G:C4	2.97	0.48
25:BA:606:U:H3'	30:BF:103:LYS:NZ	2.28	0.48
25:BA:613:U:O5'	25:BA:615:G:H8	1.97	0.48
25:BA:685:A:H5'	25:BA:687:C:C4	2.48	0.48
25:BA:805:G:N7	25:BA:2068:U:P	2.87	0.48
25:BA:813:U:OP2	37:BO:25:SER:O	2.32	0.48
25:BA:882:G:C2	25:BA:883:G:C5	3.02	0.48
25:BA:960:A:C4	25:BA:962:G:C8	3.02	0.48
25:BA:988:A:H8	25:BA:988:A:O5'	1.97	0.48
26:BB:7:G:C6	26:BB:8:U:N3	2.82	0.48
25:BA:2123:G:O3'	27:BC:172:HIS:CD2	2.66	0.48
27:BC:64:LEU:HD11	27:BC:174:PRO:O	2.14	0.48
28:BD:208:LYS:O	28:BD:209:ALA:C	2.52	0.48
29:BE:104:VAL:HG12	29:BE:105:THR:N	2.28	0.48
29:BE:148:GLY:O	29:BE:149:ARG:HB3	2.14	0.48
29:BE:195:LEU:HD13	29:BE:196:VAL:O	2.14	0.48
29:BE:37:ARG:C	29:BE:44:TYR:HD2	2.17	0.48
29:BE:43:GLY:C	29:BE:79:ARG:HH12	2.17	0.48
30:BF:118:ALA:CA	30:BF:122:LYS:HE2	2.44	0.48
31:BG:103:LEU:HD21	31:BG:176:LEU:HD22	1.96	0.48
32:BH:164:TYR:HE2	32:BH:167:GLU:N	2.12	0.48
32:BH:24:VAL:HG13	32:BH:37:VAL:HG11	1.96	0.48
35:BM:7:LYS:HD3	35:BM:39:ARG:HH12	1.76	0.48
37:BO:76:LYS:CG	37:BO:101:VAL:HG21	2.42	0.48
37:BO:101:VAL:O	37:BO:102:ARG:HB3	2.14	0.48
38:BP:120:ILE:O	38:BP:122:GLY:N	2.47	0.48
39:BQ:28:LEU:HD21	39:BQ:116:LEU:CD2	2.43	0.48
39:BQ:75:LEU:O	39:BQ:76:VAL:C	2.50	0.48
40:BR:4:LEU:H	40:BR:4:LEU:CD2	2.22	0.48
40:BR:67:ARG:HE	40:BR:71:ARG:CB	2.26	0.48
40:BR:78:LEU:C	40:BR:78:LEU:HD22	2.34	0.48
40:BR:93:LYS:HE3	40:BR:95:HIS:HB3	1.96	0.48
41:BS:9:LEU:O	41:BS:12:SER:CB	2.62	0.48
41:BS:80:SER:CB	41:BS:81:PRO:HD3	2.38	0.48
42:BT:14:HIS:O	42:BT:17:ILE:N	2.46	0.48
42:BT:31:SER:HB2	42:BT:34:LYS:HB2	1.94	0.48
42:BT:61:TRP:CZ3	42:BT:93:LYS:C	2.86	0.48
42:BT:84:LYS:O	42:BT:85:LYS:C	2.52	0.48
42:BT:89:GLU:HA	43:BU:51:VAL:CG1	2.43	0.48
43:BU:21:ARG:HH11	43:BU:21:ARG:CG	2.27	0.48
43:BU:41:GLY:CA	43:BU:51:VAL:HG22	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:11:ARG:HG3	44:BV:98:LYS:HD2	1.96	0.48
44:BV:40:ASN:O	44:BV:41:LYS:CB	2.62	0.48
46:BX:38:ILE:HG12	46:BX:60:PHE:HZ	1.77	0.48
46:BX:2:ARG:O	46:BX:4:LYS:N	2.46	0.48
25:BA:1059:G:C2'	34:BL:74:ALA:HB2	2.44	0.48
34:BL:24:GLY:CA	34:BL:34:ILE:HG23	2.43	0.48
10:AJ:129:GLU:HB3	10:AJ:131:LYS:HE2	1.96	0.48
25:BA:2185:C:C2	25:BA:2186:G:N7	2.81	0.48
27:BC:210:ARG:CG	27:BC:210:ARG:HH11	2.26	0.48
1:AA:24:U:O2'	1:AA:25:C:H5'	2.13	0.48
1:AA:1063:C:C5	1:AA:1064:G:N7	2.81	0.48
1:AA:106:C:H2'	1:AA:107:G:H8	1.79	0.48
1:AA:1268:A:HO2'	1:AA:1269:A:C5'	2.25	0.48
1:AA:1405:G:H21	1:AA:1517:G:H22	1.61	0.48
1:AA:1449:C:C4	1:AA:1450:U:C5	3.01	0.48
1:AA:145:G:C2'	1:AA:146:G:H5'	2.43	0.48
1:AA:1489:G:H2'	1:AA:1490:C:C6	2.48	0.48
1:AA:197:A:N6	1:AA:220:G:H2'	2.28	0.48
1:AA:254:G:H2'	1:AA:255:G:H8	1.79	0.48
1:AA:278:G:N2	1:AA:279:A:N6	2.58	0.48
1:AA:285:G:C2	1:AA:286:G:C8	3.02	0.48
1:AA:293:G:O6	1:AA:305:G:C6	2.67	0.48
1:AA:34:C:C2'	1:AA:35:G:O5'	2.62	0.48
1:AA:52:G:C4	1:AA:53:A:C8	3.01	0.48
1:AA:596:C:H2'	1:AA:597:G:O5'	2.13	0.48
1:AA:782:A:N7	1:AA:783:C:C5	2.82	0.48
1:AA:792:A:N3	1:AA:794:A:C6	2.82	0.48
1:AA:803:G:O2'	1:AA:804:U:H5'	2.14	0.48
1:AA:814:A:N7	1:AA:816:A:C4	2.82	0.48
1:AA:817:C:C5	1:AA:819:A:H1'	2.49	0.48
1:AA:830:G:C2'	1:AA:831:U:H5'	2.44	0.48
1:AA:918:A:O2'	1:AA:919:A:P	2.72	0.48
2:AC:19:G:N1	2:AC:56:C:N4	2.61	0.48
2:AC:69:C:H2'	2:AC:70:G:C8	2.43	0.48
3:AD:73:A:H2	3:AD:74:C:O4'	1.95	0.48
5:AE:132:LYS:NZ	5:AE:132:LYS:N	2.60	0.48
5:AE:115:LEU:HD13	5:AE:145:LEU:HG	1.96	0.48
5:AE:175:ARG:HG2	5:AE:179:LYS:CD	2.44	0.48
5:AE:182:ILE:HG22	5:AE:183:PRO:HD3	1.95	0.48
5:AE:16:HIS:CD2	5:AE:214:ILE:CG1	2.97	0.48
5:AE:39:ILE:O	5:AE:41:ILE:CD1	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:73:THR:HG22	5:AE:94:ASN:C	2.34	0.48
6:AF:142:MET:HB3	6:AF:149:ALA:HB3	1.96	0.48
7:AG:117:ALA:O	7:AG:120:LEU:HG	2.13	0.48
1:AA:404:U:C4'	7:AG:122:ARG:NH1	2.77	0.48
7:AG:57:ARG:HB3	7:AG:206:PHE:CB	2.31	0.48
7:AG:63:LYS:HG2	7:AG:64:LEU:H	1.75	0.48
7:AG:80:GLU:O	7:AG:81:GLU:C	2.52	0.48
9:AI:64:GLN:HE21	9:AI:64:GLN:HB3	1.48	0.48
10:AJ:118:VAL:HG12	10:AJ:122:HIS:CE1	2.48	0.48
10:AJ:56:GLN:NE2	10:AJ:56:GLN:H	2.11	0.48
12:AL:70:LYS:HZ3	12:AL:70:LYS:H	1.57	0.48
12:AL:93:ARG:NH1	12:AL:97:LYS:HD3	2.29	0.48
14:AN:13:GLN:O	14:AN:14:VAL:HG23	2.14	0.48
14:AN:14:VAL:C	14:AN:16:SER:H	2.17	0.48
15:AO:6:THR:OG1	15:AO:9:GLN:CD	2.52	0.48
1:AA:974:A:C8	17:AQ:31:ARG:NE	2.82	0.48
1:AA:1358:U:OP1	17:AQ:34:TYR:CB	2.61	0.48
18:AR:74:ASP:OD1	18:AR:76:GLU:CB	2.61	0.48
19:AS:19:ILE:CB	19:AS:37:GLY:O	2.53	0.48
19:AS:43:LYS:CD	19:AS:48:TRP:HZ3	2.26	0.48
20:AT:6:LEU:HD12	20:AT:59:ILE:HG22	1.96	0.48
21:AU:44:LEU:CD1	21:AU:45:SER:H	2.25	0.48
23:AW:21:LYS:CA	23:AW:24:LEU:HD12	2.34	0.48
50:B2:6:VAL:HG12	50:B2:56:VAL:CA	2.42	0.48
54:B6:11:LYS:HZ1	54:B6:15:THR:HG21	1.79	0.48
55:B7:15:LYS:C	55:B7:16:ILE:HD12	2.33	0.48
55:B7:34:TRP:O	55:B7:36:LYS:HB2	2.14	0.48
37:BO:49:ARG:HG3	55:B7:52:LYS:CE	2.44	0.48
55:B7:4:MET:HE3	55:B7:62:LEU:HD11	1.95	0.48
25:BA:1011:G:C6	25:BA:1013:C:C4	3.02	0.48
25:BA:1153:C:C4	25:BA:1154:G:C6	3.02	0.48
25:BA:1486:A:H2'	25:BA:1487:G:C8	2.49	0.48
25:BA:1518:C:H3'	25:BA:1519:G:C4'	2.43	0.48
25:BA:1527:G:N2	25:BA:1545:A:C8	2.82	0.48
25:BA:1539:G:C8	25:BA:1540:G:C8	3.02	0.48
25:BA:1591:G:C2	25:BA:1592:C:N3	2.82	0.48
25:BA:1609:A:N3	25:BA:1609:A:C2'	2.77	0.48
25:BA:754:C:OP1	25:BA:1619:G:H5''	2.14	0.48
25:BA:1651:G:O3'	25:BA:1652:A:O4'	2.32	0.48
25:BA:1685:C:H2'	25:BA:1686:C:H6	1.78	0.48
25:BA:1689:A:N6	25:BA:1698:A:H2	2.04	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1913:A:O2'	25:BA:1916:A:N1	2.39	0.48
25:BA:1826:G:O2'	25:BA:1971:A:H4'	2.14	0.48
25:BA:1975:G:O2'	25:BA:1976:U:H5'	2.14	0.48
25:BA:2028:U:H2'	25:BA:2029:G:N7	2.29	0.48
25:BA:2050:C:N4	25:BA:2051:A:N6	2.62	0.48
25:BA:2053:G:O3'	29:BE:145:LYS:NZ	2.45	0.48
25:BA:2088:G:C6	25:BA:2089:U:N3	2.82	0.48
25:BA:2132:U:C6	25:BA:2132:U:OP2	2.67	0.48
25:BA:2135:A:O5'	25:BA:2136:C:OP1	2.32	0.48
25:BA:2157:G:OP2	25:BA:2157:G:N3	2.47	0.48
25:BA:2227:A:H8	25:BA:2227:A:O5'	1.96	0.48
25:BA:2236:C:C4	25:BA:2237:G:C4	3.02	0.48
25:BA:233:A:N6	25:BA:234:C:N3	2.62	0.48
25:BA:237:C:C2	25:BA:238:C:C5	3.01	0.48
3:AD:76:A:H2'	25:BA:2432:A:H4'	1.96	0.48
25:BA:2452:C:C4	25:BA:2453:A:C6	3.02	0.48
25:BA:2459:A:N6	25:BA:2493:U:C4	2.81	0.48
25:BA:253:C:O2'	25:BA:254:G:H5'	2.13	0.48
25:BA:2554:U:C4	25:BA:2555:U:O4	2.67	0.48
25:BA:2630:G:N3	25:BA:2630:G:H2'	2.29	0.48
25:BA:2686:G:H2'	25:BA:2687:U:O4'	2.13	0.48
25:BA:2701:C:C5'	25:BA:2701:C:H6	2.27	0.48
25:BA:2721:A:H3'	25:BA:2722:G:C8	2.48	0.48
25:BA:2793:G:O6	25:BA:2794:C:N4	2.47	0.48
25:BA:2840:C:H2'	25:BA:2841:C:O5'	2.13	0.48
25:BA:35:G:N2	25:BA:450:G:N3	2.59	0.48
25:BA:410:G:C6	25:BA:411:G:O6	2.66	0.48
25:BA:223:A:C5	25:BA:422:A:N7	2.82	0.48
25:BA:483:A:C4	25:BA:484:C:C6	3.01	0.48
25:BA:489:G:C2	25:BA:491:G:H1'	2.45	0.48
25:BA:492:A:H2'	25:BA:493:G:O4'	2.14	0.48
25:BA:475:U:C6	25:BA:509:C:C4	2.92	0.48
25:BA:532:A:OP1	25:BA:2021:C:N4	2.32	0.48
25:BA:660:G:H5'	30:BF:99:TYR:CE1	2.49	0.48
25:BA:675:A:H5''	30:BF:67:GLN:CG	2.42	0.48
25:BA:708:C:H2'	25:BA:709:U:O5'	2.13	0.48
25:BA:717:G:C2'	25:BA:718:A:O5'	2.62	0.48
25:BA:974:G:N7	25:BA:974(A):C:C5	2.82	0.48
25:BA:984:A:O5'	25:BA:984:A:H8	1.97	0.48
26:BB:113:C:O2'	26:BB:114:G:H5'	2.14	0.48
26:BB:99:A:H5''	26:BB:99:A:C8	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2125:G:C5'	27:BC:40:THR:HG21	2.40	0.48
28:BD:105:ILE:CG1	28:BD:106:ILE:HG13	2.43	0.48
28:BD:111:LEU:CA	28:BD:115:GLN:HE22	2.27	0.48
28:BD:5:LYS:HE3	28:BD:81:ALA:HB1	1.96	0.48
30:BF:137:LYS:CA	30:BF:137:LYS:NZ	2.77	0.48
30:BF:148:LEU:CD2	30:BF:148:LEU:N	2.75	0.48
30:BF:200:GLU:OE1	30:BF:201:VAL:CG2	2.58	0.48
25:BA:675:A:C4'	30:BF:67:GLN:OE1	2.47	0.48
31:BG:33:ARG:HD2	31:BG:34:LEU:CA	2.44	0.48
31:BG:49:ASP:H	31:BG:53:LEU:CD1	2.26	0.48
25:BA:2746:U:H5'	32:BH:139:GLN:HA	1.96	0.48
32:BH:76:VAL:HG23	32:BH:77:LYS:N	2.23	0.48
35:BM:14:VAL:HA	35:BM:138:LEU:O	2.14	0.48
35:BM:7:LYS:NZ	35:BM:8:GLN:O	2.46	0.48
35:BM:70:LYS:CD	35:BM:86:PRO:CB	2.90	0.48
36:BN:26:LYS:CG	36:BN:27:GLY:N	2.72	0.48
36:BN:64:ARG:O	36:BN:65:THR:O	2.31	0.48
36:BN:79:PHE:CE1	41:BS:65:LYS:NZ	2.82	0.48
37:BO:16:ARG:NE	37:BO:19:VAL:HG22	2.28	0.48
38:BP:109:VAL:CG1	38:BP:114:ALA:HB2	2.44	0.48
38:BP:50:ALA:N	38:BP:124:LYS:HZ1	2.12	0.48
38:BP:75:THR:HG22	38:BP:77:LYS:CA	2.43	0.48
38:BP:98:LYS:H	38:BP:99:PRO:CD	2.27	0.48
41:BS:31:SER:HA	41:BS:48:ILE:O	2.14	0.48
42:BT:52:ARG:O	42:BT:54:LYS:N	2.46	0.48
43:BU:53:GLU:O	43:BU:57:VAL:HG23	2.14	0.48
44:BV:33:ARG:CZ	44:BV:37:ARG:CB	2.91	0.48
46:BX:42:VAL:HB	46:BX:43:ASN:H	1.48	0.48
47:BY:121:HIS:N	47:BY:172:ALA:HB2	2.18	0.48
47:BY:11:GLU:CG	47:BY:36:LYS:NZ	2.73	0.48
33:BK:53:ALA:C	33:BK:57:ARG:NH2	2.67	0.48
33:BK:58:LEU:HB3	33:BK:62:LYS:HE3	1.94	0.48
33:BK:97:ILE:HG22	33:BK:98:ALA:N	2.29	0.48
25:BA:1057:A:C8	25:BA:1085:A:C2	3.02	0.48
6:AF:157:ILE:HD12	6:AF:164:ARG:NH1	2.29	0.48
46:BX:86:ARG:O	46:BX:88:LYS:N	2.43	0.48
1:AA:1020:U:H2'	1:AA:1021:G:H8	1.79	0.48
4:A1:5:A:H2'	4:A1:6:G:O4'	2.13	0.48
16:AP:94:ARG:HD3	16:AP:94:ARG:HA	1.74	0.48
1:AA:99:C:HO2'	1:AA:101:A:P	2.36	0.48
1:AA:1099:G:C2	1:AA:1100:C:O4'	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:9:G:C2	1:AA:10:A:C5	3.02	0.48
1:AA:1129:C:C4	1:AA:1139:G:O6	2.67	0.48
1:AA:1134:G:C3'	1:AA:1135:U:H5'	2.44	0.48
1:AA:1214:C:H4'	1:AA:1215:G:OP2	2.10	0.48
1:AA:130:A:H2	1:AA:263:A:C2	2.32	0.48
1:AA:1378:C:C2	1:AA:1379:G:H1'	2.48	0.48
1:AA:1450:U:O2'	1:AA:1453:G:O6	2.32	0.48
1:AA:161:A:N6	1:AA:162:A:C6	2.82	0.48
1:AA:5:U:HO2'	1:AA:6:G:P	2.37	0.48
1:AA:673:G:H5''	9:AI:87:ARG:CZ	2.43	0.48
1:AA:654:G:N1	1:AA:754:C:N4	2.62	0.48
1:AA:789:U:H2'	1:AA:790:A:H3'	1.96	0.48
1:AA:962:C:C2'	1:AA:963:G:O4'	2.61	0.48
2:AC:60:U:H5'	2:AC:61:C:OP2	2.14	0.48
3:AD:34:G:N3	3:AD:34:G:C2'	2.76	0.48
3:AD:39:U:H2'	3:AD:40:C:O4'	2.14	0.48
5:AE:139:LYS:CG	5:AE:140:HIS:H	2.26	0.48
5:AE:153:ARG:O	5:AE:154:LEU:O	2.32	0.48
5:AE:82:ARG:O	5:AE:86:GLU:CB	2.61	0.48
1:AA:1100:C:C2'	5:AE:98:LEU:HD11	2.38	0.48
6:AF:43:LEU:HD11	6:AF:55:VAL:HG11	1.95	0.48
6:AF:8:ILE:CG2	6:AF:9:GLY:N	2.76	0.48
7:AG:101:LEU:CD2	7:AG:133:VAL:HG12	2.43	0.48
7:AG:165:MET:HG3	7:AG:166:LYS:N	2.29	0.48
7:AG:147:ALA:HB1	7:AG:181:MET:O	2.13	0.48
7:AG:187:ARG:O	7:AG:188:LEU:C	2.51	0.48
7:AG:73:ARG:O	7:AG:75:PHE:N	2.47	0.48
8:AH:119:LEU:HD12	8:AH:119:LEU:H	1.79	0.48
8:AH:137:GLU:OE2	8:AH:140:ARG:NH1	2.46	0.48
8:AH:47:LYS:H	8:AH:57:LYS:HD3	1.79	0.48
9:AI:34:GLY:O	9:AI:67:MET:HA	2.13	0.48
10:AJ:2:ALA:HB2	10:AJ:7:ALA:HB2	1.96	0.48
10:AJ:55:GLY:O	10:AJ:56:GLN:O	2.31	0.48
10:AJ:71:PRO:HB2	10:AJ:91:VAL:HG21	1.96	0.48
11:AK:109:ILE:O	11:AK:109:ILE:HG13	2.12	0.48
11:AK:40:ALA:HB2	11:AK:45:ILE:HD13	1.96	0.48
12:AL:23:ASN:OD1	12:AL:25:LYS:NZ	2.47	0.48
12:AL:26:VAL:HA	12:AL:61:ALA:O	2.14	0.48
12:AL:67:GLY:O	12:AL:68:GLY:C	2.52	0.48
12:AL:96:LEU:O	12:AL:100:GLY:HA3	2.12	0.48
13:AM:15:THR:HG23	13:AM:16:LEU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:6:ILE:HG21	13:AM:98:ILE:HG13	1.94	0.48
14:AN:116:HIS:O	14:AN:117:ASN:CB	2.62	0.48
14:AN:99:GLN:CA	14:AN:105:VAL:CG2	2.92	0.48
15:AO:27:LEU:C	15:AO:29:GLY:N	2.63	0.48
15:AO:76:ASN:O	15:AO:77:LEU:CB	2.61	0.48
1:AA:1230:C:HO2'	16:AP:126:LYS:HE2	1.79	0.48
16:AP:13:LYS:O	16:AP:14:ARG:O	2.32	0.48
1:AA:1048:G:OP1	17:AQ:3:ARG:HA	2.13	0.48
17:AQ:40:CYS:HB2	17:AQ:42:ILE:HG12	1.96	0.48
17:AQ:9:LYS:HG2	17:AQ:21:TYR:O	2.13	0.48
18:AR:21:ASP:CG	18:AR:24:SER:HB2	2.34	0.48
18:AR:66:LEU:O	18:AR:69:TYR:N	2.47	0.48
19:AS:14:ASN:CA	19:AS:42:ARG:NH2	2.77	0.48
19:AS:59:TRP:O	19:AS:60:LEU:C	2.53	0.48
20:AT:59:ILE:HG13	20:AT:60:ILE:H	1.71	0.48
20:AT:65:ILE:HG23	20:AT:69:LYS:O	2.14	0.48
21:AU:59:SER:O	21:AU:62:GLU:N	2.47	0.48
50:B2:15:TYR:N	50:B2:15:TYR:CD1	2.81	0.48
51:B3:40:HIS:CB	51:B3:41:PRO:CD	2.90	0.48
37:BO:54:GLY:HA2	55:B7:12:LYS:NZ	2.29	0.48
55:B7:13:ARG:HB3	55:B7:24:ALA:HA	1.96	0.48
55:B7:61:LEU:O	55:B7:62:LEU:CG	2.62	0.48
25:BA:1129:A:H2'	25:BA:1130:U:OP2	2.12	0.48
25:BA:1152:C:H2'	25:BA:1153:C:H5'	1.95	0.48
25:BA:1171:G:H8	25:BA:1173:G:H5''	1.78	0.48
25:BA:1183:G:P	25:BA:1183:G:H3'	2.54	0.48
25:BA:1204:A:P	37:BO:6:LEU:CD1	3.02	0.48
25:BA:1305:C:O2'	25:BA:1306:C:H5'	2.13	0.48
25:BA:140:A:H61	25:BA:1596:A:H4'	1.79	0.48
25:BA:1449(A):G:C6	25:BA:1450:C:C4	3.02	0.48
25:BA:1476:C:C5	25:BA:1477:A:C2	3.02	0.48
25:BA:1534:G:N2	25:BA:1537:C:C5	2.75	0.48
25:BA:1568:G:OP2	28:BD:61:LEU:CG	2.62	0.48
25:BA:1592:C:O2'	25:BA:1593:G:C5'	2.62	0.48
25:BA:1603:A:OP2	25:BA:1604:C:OP2	2.32	0.48
25:BA:1667:G:C2'	25:BA:1667:G:N3	2.76	0.48
25:BA:1906:G:C4	25:BA:1907:G:C8	3.02	0.48
25:BA:1910:G:C4	25:BA:1921:G:C2	3.02	0.48
25:BA:1990:C:N3	25:BA:1991:U:C4	2.82	0.48
25:BA:2075:U:N3	25:BA:2238:G:N1	2.62	0.48
25:BA:2084:C:O2'	25:BA:2085:C:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1889:A:H1'	25:BA:2087:G:O4'	2.13	0.48
25:BA:2325:G:C4	25:BA:2326:C:H5	2.30	0.48
25:BA:2285:C:O2	25:BA:2384:G:N2	2.47	0.48
25:BA:2393:A:OP2	55:B7:32:LEU:CD2	2.51	0.48
25:BA:246:C:H42	25:BA:252:G:H1	1.60	0.48
25:BA:246:C:N4	25:BA:252:G:H1	2.12	0.48
25:BA:257:A:C6	25:BA:258:G:C4	3.02	0.48
25:BA:2635:C:H2'	25:BA:2636:U:C6	2.49	0.48
25:BA:269:U:C5'	25:BA:270(Y):G:H2'	2.44	0.48
25:BA:271:G:C2	25:BA:272:G:C8	3.02	0.48
25:BA:2758:A:OP2	25:BA:2759:G:OP2	2.32	0.48
25:BA:2781:A:H2'	25:BA:2782:G:H4'	1.94	0.48
25:BA:2783:G:C2	25:BA:2784:C:C2	3.02	0.48
25:BA:2829:C:HO2'	25:BA:2830:G:C5'	2.25	0.48
25:BA:280:C:N4	25:BA:283:A:N7	2.62	0.48
25:BA:2849:U:H1'	25:BA:2868:A:C4	2.49	0.48
25:BA:2856:C:C2'	25:BA:2857:G:C5'	2.92	0.48
25:BA:297:C:O3'	46:BX:83:THR:OG1	2.29	0.48
25:BA:311:A:HO2'	25:BA:312:G:P	2.36	0.48
25:BA:357:A:C5	25:BA:358:U:C5	3.02	0.48
25:BA:453:C:C4'	25:BA:457:A:H62	2.25	0.48
25:BA:462:C:C4	25:BA:468:G:C2	3.02	0.48
25:BA:482:A:C2'	25:BA:483:A:OP2	2.62	0.48
25:BA:572:A:N6	25:BA:573:G:C2	2.81	0.48
25:BA:616:A:H2'	25:BA:616:A:N3	2.28	0.48
25:BA:628:G:C2	25:BA:629:G:C5	3.02	0.48
25:BA:647:G:H5''	25:BA:2352:A:H5''	1.96	0.48
25:BA:696:G:N3	25:BA:697:C:C6	2.82	0.48
25:BA:823:G:C4	25:BA:824:A:C8	3.02	0.48
25:BA:831:G:C3'	25:BA:832:G:H5'	2.44	0.48
25:BA:66:C:C4	25:BA:89:G:N1	2.82	0.48
25:BA:91:A:H2'	25:BA:92:G:O5'	2.14	0.48
25:BA:941:A:N3	25:BA:941:A:C2'	2.77	0.48
25:BA:974:G:H8	25:BA:974(A):C:O4'	1.97	0.48
25:BA:983:A:H2'	25:BA:984:A:C8	2.49	0.48
26:BB:6:C:N3	26:BB:115:G:N2	2.62	0.48
27:BC:64:LEU:CD1	27:BC:161:ILE:CG2	2.89	0.48
25:BA:2175:C:H1'	27:BC:218:MET:HA	1.95	0.48
27:BC:84:LYS:O	27:BC:88:GLU:HB2	2.14	0.48
28:BD:96:HIS:NE2	28:BD:102:LYS:CE	2.75	0.48
28:BD:171:ASP:O	28:BD:186:HIS:CA	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:231:HIS:HB3	28:BD:233:HIS:CE1	2.48	0.48
28:BD:95:LEU:HD12	28:BD:105:ILE:HG21	1.96	0.48
28:BD:97:TYR:O	28:BD:98:VAL:C	2.53	0.48
29:BE:100:GLU:CB	29:BE:172:VAL:HG21	2.44	0.48
29:BE:32:PRO:HD2	29:BE:88:GLY:C	2.35	0.48
29:BE:44:TYR:HD1	29:BE:82:ARG:HH11	1.60	0.48
30:BF:11:VAL:CG2	30:BF:126:VAL:HG12	2.43	0.48
30:BF:132:VAL:O	30:BF:133:ASN:CB	2.62	0.48
30:BF:158:THR:OG1	30:BF:195:ASP:N	2.40	0.48
31:BG:130:ASN:O	31:BG:161:THR:HG23	2.14	0.48
31:BG:130:ASN:O	31:BG:131:TYR:CB	2.62	0.48
31:BG:18:GLU:HB3	31:BG:19:LEU:HD12	1.95	0.48
31:BG:53:LEU:N	31:BG:53:LEU:HD12	2.29	0.48
31:BG:77:ILE:HD12	31:BG:77:ILE:O	2.14	0.48
25:BA:2749:A:H5'	32:BH:62:LYS:O	2.13	0.48
35:BM:37:LYS:HZ1	35:BM:44:PRO:N	2.12	0.48
36:BN:39:ILE:O	36:BN:59:LYS:CE	2.61	0.48
36:BN:4:PRO:CG	36:BN:5:GLN:N	2.69	0.48
25:BA:1249:U:N3	37:BO:21:ARG:NH2	2.60	0.48
37:BO:76:LYS:O	37:BO:115:LEU:CB	2.42	0.48
37:BO:97:PRO:HD3	37:BO:102:ARG:HH22	1.77	0.48
38:BP:34:LEU:CB	38:BP:67:ARG:HH22	2.27	0.48
38:BP:6:ARG:C	38:BP:6:ARG:HD3	2.34	0.48
39:BQ:51:LEU:HD23	39:BQ:66:VAL:CG1	2.39	0.48
40:BR:106:ARG:NH1	40:BR:110:LEU:HB2	2.29	0.48
41:BS:38:ASN:ND2	41:BS:39:ARG:HG2	2.29	0.48
42:BT:47:TYR:HE2	43:BU:75:PHE:CA	2.26	0.48
42:BT:79:PHE:CE1	42:BT:83:LEU:HD12	2.49	0.48
43:BU:14:VAL:CG2	43:BU:19:LYS:HG3	2.40	0.48
43:BU:21:ARG:O	43:BU:22:VAL:C	2.51	0.48
43:BU:4:ILE:O	43:BU:4:ILE:HG22	2.13	0.48
25:BA:1225:C:OP1	43:BU:88:ARG:CB	2.62	0.48
25:BA:2010:G:H4'	44:BV:42:ARG:HH22	1.79	0.48
46:BX:11:ASP:OD1	46:BX:24:VAL:HG12	2.14	0.48
47:BY:113:ALA:CB	47:BY:145:GLU:CD	2.80	0.48
47:BY:153:SER:CB	47:BY:168:GLU:HB2	2.41	0.48
47:BY:50:GLN:HB3	47:BY:53:ILE:CG1	2.40	0.48
25:BA:856:C:O2'	48:BZ:69:PHE:CZ	2.67	0.48
48:BZ:83:PRO:O	48:BZ:84:LEU:C	2.53	0.48
33:BK:75:LEU:HD13	33:BK:76:THR:HG23	1.95	0.48
34:BL:38:VAL:HG12	34:BL:39:LYS:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:30:LEU:HG	22:AV:50:ALA:N	2.29	0.48
1:AA:1004:A:O2'	1:AA:1005:A:O5'	2.32	0.48
1:AA:842:C:H5''	1:AA:843:U:O5'	2.14	0.48
1:AA:89:U:C2	1:AA:90:C:C6	3.02	0.48
1:AA:748:C:O2'	1:AA:749:C:C6	2.67	0.48
1:AA:996:A:C2	1:AA:997:U:C5	3.02	0.48
1:AA:119:A:N3	1:AA:240:C:C5	2.82	0.48
1:AA:1092:A:N6	1:AA:1093:A:N1	2.62	0.47
1:AA:1184:G:N3	1:AA:1185:G:N7	2.62	0.47
1:AA:1454:G:C4	1:AA:1455:G:C8	3.02	0.47
1:AA:1520:G:O2'	1:AA:1521:G:H5'	2.14	0.47
1:AA:269:C:O2'	1:AA:270:A:H5'	2.13	0.47
1:AA:284:G:C4	1:AA:285:G:C8	3.02	0.47
1:AA:115:G:N1	1:AA:313:A:C6	2.82	0.47
1:AA:54:C:N4	1:AA:352:C:H2'	2.29	0.47
1:AA:367:U:H4'	1:AA:368:U:OP1	2.14	0.47
1:AA:403:C:H2'	1:AA:404:U:H6	1.76	0.47
1:AA:519:C:H2'	1:AA:520:A:O5'	2.13	0.47
1:AA:664:G:H8	1:AA:664:G:H3'	1.78	0.47
1:AA:778:G:C4	1:AA:779:C:C6	3.02	0.47
1:AA:571:U:C4'	1:AA:819:A:N7	2.77	0.47
1:AA:874:G:C2	1:AA:875:C:C6	3.02	0.47
1:AA:964:A:C2	1:AA:965:A:N7	2.81	0.47
1:AA:986:A:C4'	22:AV:55:LYS:HG3	2.43	0.47
2:AC:52:G:N3	2:AC:63:G:C2	2.81	0.47
2:AC:56:C:O2	2:AC:56:C:H2'	2.13	0.47
2:AC:57:A:H3'	2:AC:58:A:H5''	1.96	0.47
2:AC:64:G:O2'	2:AC:65:C:H5'	2.14	0.47
2:AC:7:G:C6	2:AC:49:G:C6	3.02	0.47
5:AE:118:LEU:O	5:AE:119:GLU:C	2.52	0.47
5:AE:160:ASP:O	5:AE:161:ALA:CB	2.61	0.47
6:AF:28:GLN:HE22	6:AF:29:TYR:HB2	1.78	0.47
7:AG:31:CYS:C	7:AG:33:MET:H	2.15	0.47
8:AH:140:ARG:O	8:AH:141:GLN:O	2.32	0.47
9:AI:76:ALA:HB1	9:AI:80:ARG:NE	2.28	0.47
10:AJ:136:LYS:O	10:AJ:140:ASP:OD1	2.32	0.47
10:AJ:65:ALA:N	10:AJ:128:ALA:HA	2.29	0.47
10:AJ:72:ARG:HG3	10:AJ:73:MET:H	1.79	0.47
10:AJ:84:ASN:C	10:AJ:85:TYR:CD2	2.84	0.47
11:AK:104:ARG:HB3	11:AK:107:LEU:HG	1.95	0.47
11:AK:13:ILE:O	11:AK:14:ARG:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:93:VAL:HG12	11:AK:95:VAL:CG1	2.44	0.47
1:AA:942:G:N2	12:AL:124:GLN:OE1	2.47	0.47
12:AL:15:ALA:CB	12:AL:77:ILE:N	2.77	0.47
14:AN:84:VAL:HG21	14:AN:111:ASP:H	1.76	0.47
14:AN:99:GLN:CB	14:AN:105:VAL:CG1	2.90	0.47
15:AO:84:LEU:O	15:AO:100:ILE:HG22	2.13	0.47
17:AQ:12:ARG:CB	17:AQ:14:PRO:HD3	2.39	0.47
19:AS:20:VAL:HG11	19:AS:32:TYR:HB2	1.96	0.47
20:AT:44:ALA:HB2	20:AT:59:ILE:CD1	2.40	0.47
20:AT:65:ILE:O	20:AT:69:LYS:O	2.32	0.47
20:AT:85:VAL:HG12	20:AT:89:LEU:CD1	2.40	0.47
21:AU:31:LEU:HD22	21:AU:65:ILE:HG13	1.96	0.47
22:AV:36:ARG:HH11	22:AV:36:ARG:CG	2.26	0.47
50:B2:4:LEU:HD23	50:B2:5:LYS:O	2.14	0.47
50:B2:8:LEU:HD13	50:B2:31:LEU:O	2.13	0.47
51:B3:55:ARG:O	51:B3:56:VAL:HG23	2.13	0.47
51:B3:5:ILE:CD1	51:B3:60:GLN:HE22	2.20	0.47
25:BA:2577:A:O2'	52:B4:4:HIS:CE1	2.67	0.47
54:B6:1:MET:HB3	54:B6:3:ARG:HD3	1.96	0.47
25:BA:1001:A:H61	25:BA:1154:G:H1'	1.79	0.47
25:BA:1005:C:O2	25:BA:1005:C:H2'	2.13	0.47
25:BA:1011:G:H5'	25:BA:1012:U:OP2	2.14	0.47
25:BA:104:U:O2'	25:BA:105:C:H5'	2.13	0.47
25:BA:116:C:H2'	25:BA:117:G:C8	2.48	0.47
25:BA:118:A:C8	25:BA:119:A:N7	2.82	0.47
25:BA:1224:G:H8	25:BA:1224:G:P	2.36	0.47
25:BA:1263:U:N1	25:BA:1264:G:C2	2.82	0.47
25:BA:1286:A:N3	25:BA:1329:U:C4	2.81	0.47
25:BA:1270:C:O2'	25:BA:1325:G:N7	2.47	0.47
25:BA:1375:C:O2'	25:BA:1376:C:H5'	2.14	0.47
25:BA:1445:C:O2	25:BA:1466:G:N2	2.43	0.47
25:BA:1487:G:N2	25:BA:1503:U:C2	2.82	0.47
25:BA:1508:A:P	25:BA:1508:A:N3	2.87	0.47
25:BA:1513:C:C3'	25:BA:1513:C:C6	2.97	0.47
25:BA:1598:C:N3	25:BA:1599:C:C5	2.82	0.47
25:BA:14:A:C8	25:BA:15:G:O4'	2.66	0.47
25:BA:1602:U:O5'	25:BA:1602:U:C6	2.67	0.47
25:BA:1623:G:C2	25:BA:1624:G:C8	3.01	0.47
25:BA:1681:G:H2'	25:BA:1682:G:OP1	2.13	0.47
25:BA:180:G:C5'	25:BA:181:A:OP1	2.61	0.47
25:BA:1827:C:H2'	25:BA:1828:G:C4'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1790:C:H3'	25:BA:1828:G:N2	2.29	0.47
25:BA:1844:C:C2	25:BA:1845:G:C8	3.02	0.47
25:BA:1858:G:C6	25:BA:1883:G:N1	2.82	0.47
25:BA:1919:A:OP2	25:BA:1920:C:C5	2.64	0.47
25:BA:1926:U:C4	25:BA:1929:G:N2	2.82	0.47
25:BA:1952:A:C2	36:BN:22:ILE:HD13	2.49	0.47
25:BA:2017:U:H4'	52:B4:8:LYS:NZ	2.29	0.47
25:BA:2070:G:C2	25:BA:2071:A:N3	2.82	0.47
25:BA:2119:A:H2	25:BA:2170:A:H2'	1.75	0.47
25:BA:2199:A:C5	25:BA:2225:A:N1	2.82	0.47
25:BA:2309:A:N3	25:BA:2309:A:C2'	2.77	0.47
25:BA:2311:A:N3	31:BG:43:LEU:HD23	2.28	0.47
25:BA:2353:G:C2'	48:BZ:35:ASN:HD21	2.27	0.47
25:BA:227:A:N7	25:BA:2407:G:O4'	2.47	0.47
25:BA:1129:A:HO2'	25:BA:2515:C:H1'	1.79	0.47
25:BA:2525:G:C2	25:BA:2539:C:C4	3.02	0.47
25:BA:252:G:C2	25:BA:253:C:C6	3.01	0.47
25:BA:2784:C:H4'	29:BE:41:LYS:HE2	1.96	0.47
25:BA:2818:G:O5'	25:BA:2837:G:O2'	2.29	0.47
25:BA:280:C:O2'	25:BA:281:G:P	2.72	0.47
25:BA:348:G:N3	25:BA:348:G:H2'	2.29	0.47
25:BA:37:C:H2'	25:BA:38:A:C8	2.49	0.47
25:BA:450:G:H5'	30:BF:52:LYS:CD	2.35	0.47
25:BA:480:A:H3'	25:BA:481:G:H5''	1.95	0.47
25:BA:640:C:C3'	25:BA:641:C:H5'	2.45	0.47
25:BA:721:C:N3	25:BA:722:A:N7	2.61	0.47
25:BA:794:G:H2'	25:BA:795:C:O5'	2.13	0.47
25:BA:831:G:H2'	25:BA:832:G:H5'	1.96	0.47
25:BA:870:A:C6	25:BA:871:U:C2	3.02	0.47
25:BA:943:U:C2'	25:BA:944:G:OP1	2.61	0.47
25:BA:996:A:N3	25:BA:997:G:C8	2.83	0.47
28:BD:109:ASP:HB2	28:BD:195:ALA:CB	2.40	0.47
28:BD:136:ILE:HB	28:BD:168:ARG:HH22	1.71	0.47
28:BD:171:ASP:O	28:BD:186:HIS:HB3	2.14	0.47
28:BD:232:PRO:HG2	28:BD:246:PRO:O	2.14	0.47
28:BD:258:LYS:HG2	28:BD:259:THR:H	1.70	0.47
28:BD:46:GLN:C	28:BD:48:ARG:N	2.66	0.47
29:BE:104:VAL:HG13	29:BE:105:THR:N	2.27	0.47
29:BE:111:ARG:HG2	29:BE:111:ARG:NH2	2.28	0.47
25:BA:2512:C:OP1	29:BE:120:TRP:HH2	1.97	0.47
29:BE:136:ARG:HB2	29:BE:136:ARG:HE	1.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:80:GLU:HG2	29:BE:83:ASP:OD1	2.13	0.47
29:BE:8:LYS:CE	29:BE:8:LYS:CA	2.85	0.47
30:BF:135:LYS:HB3	30:BF:138:GLU:CG	2.45	0.47
25:BA:323:G:C2'	30:BF:170:LEU:HB2	2.14	0.47
30:BF:81:PRO:CG	30:BF:82:ILE:N	2.77	0.47
31:BG:141:PHE:CD2	31:BG:145:THR:HG22	2.49	0.47
31:BG:50:ALA:CB	31:BG:51:ARG:NH2	2.75	0.47
31:BG:82:LEU:O	31:BG:83:ARG:HD2	2.13	0.47
31:BG:75:LYS:HD2	31:BG:87:PRO:HD2	1.95	0.47
35:BM:123:TYR:CB	35:BM:129:PRO:HB3	2.44	0.47
36:BN:10:VAL:O	36:BN:17:ARG:NE	2.43	0.47
36:BN:11:ALA:HB1	36:BN:97:ARG:NH1	2.24	0.47
36:BN:64:ARG:NH1	36:BN:67:LYS:C	2.67	0.47
38:BP:102:VAL:CG2	38:BP:104:PHE:CE2	2.97	0.47
38:BP:114:ALA:O	38:BP:118:LEU:CG	2.61	0.47
38:BP:118:LEU:O	38:BP:120:ILE:N	2.47	0.47
38:BP:42:ILE:H	38:BP:94:VAL:HG21	1.78	0.47
38:BP:50:ALA:O	38:BP:54:MET:HG2	2.13	0.47
38:BP:17:LEU:O	38:BP:72:LYS:NZ	2.46	0.47
38:BP:98:LYS:HZ2	38:BP:99:PRO:HD3	1.79	0.47
40:BR:69:VAL:O	40:BR:73:LEU:CD1	2.55	0.47
41:BS:30:VAL:CG1	41:BS:32:TYR:OH	2.56	0.47
41:BS:56:GLY:O	41:BS:61:PHE:HA	2.14	0.47
41:BS:59:THR:CA	41:BS:61:PHE:CE1	2.97	0.47
36:BN:79:PHE:HD1	41:BS:75:ILE:HD11	1.78	0.47
42:BT:32:PHE:CD1	42:BT:32:PHE:N	2.82	0.47
42:BT:58:ARG:NH1	42:BT:58:ARG:HB3	2.29	0.47
43:BU:53:GLU:HB3	43:BU:57:VAL:HG23	1.95	0.47
43:BU:80:GLN:O	43:BU:82:ARG:N	2.47	0.47
44:BV:66:GLU:O	44:BV:69:LEU:HD13	2.13	0.47
44:BV:67:ASP:OD2	44:BV:68:ARG:N	2.47	0.47
44:BV:69:LEU:HD23	44:BV:107:LEU:HD21	1.95	0.47
25:BA:519:U:H4'	44:BV:74:ALA:O	2.14	0.47
45:BW:73:ARG:HH21	45:BW:76:ARG:HB2	1.79	0.47
46:BX:42:VAL:N	46:BX:61:ILE:CB	2.65	0.47
46:BX:76:CYS:N	46:BX:100:ALA:CB	2.77	0.47
47:BY:101:PRO:HA	47:BY:124:ILE:CG1	2.38	0.47
47:BY:120:ILE:CD1	47:BY:120:ILE:H	2.16	0.47
47:BY:100:VAL:HG23	47:BY:125:LEU:O	2.13	0.47
47:BY:20:ARG:HH11	47:BY:20:ARG:HG3	1.79	0.47
47:BY:28:MET:SD	47:BY:90:VAL:HG13	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1054:A:C2	25:BA:1055:G:N1	2.82	0.47
10:AJ:126:ASP:HA	10:AJ:131:LYS:HE2	1.96	0.47
9:AI:32:ASN:ND2	9:AI:32:ASN:N	2.60	0.47
7:AG:118:ARG:NH2	7:AG:118:ARG:HG3	2.29	0.47
7:AG:70:ILE:HD11	7:AG:118:ARG:HH22	1.79	0.47
1:AA:1102:A:N1	1:AA:1103:C:C4	2.82	0.47
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.44	0.47
1:AA:1138:G:H2'	1:AA:1139:G:O3'	2.14	0.47
1:AA:1242:C:N3	1:AA:1243:C:C5	2.82	0.47
1:AA:1243:C:OP2	24:AX:10:ARG:CD	2.62	0.47
1:AA:124:G:N7	1:AA:125:U:C5	2.82	0.47
1:AA:1317:C:C6	1:AA:1317:C:OP1	2.67	0.47
1:AA:1346:A:O2'	1:AA:1347:G:OP2	2.21	0.47
1:AA:1401:G:C2'	1:AA:1402:C:C5'	2.89	0.47
1:AA:1440:C:OP2	1:AA:1440:C:H6	1.96	0.47
1:AA:1534:A:C5	1:AA:1535:C:C4	3.02	0.47
1:AA:308:C:N3	1:AA:309:G:N7	2.62	0.47
1:AA:583:A:H2'	1:AA:584:G:O4'	2.14	0.47
1:AA:593:G:O2'	1:AA:594:G:H5'	2.14	0.47
1:AA:624:C:O2	1:AA:625:G:C8	2.67	0.47
1:AA:717:C:HO2'	1:AA:718:G:P	2.37	0.47
1:AA:770:C:H2'	1:AA:771:G:H8	1.79	0.47
1:AA:771:G:O6	1:AA:809:G:C6	2.67	0.47
1:AA:864:A:H8	1:AA:864:A:O5'	1.96	0.47
1:AA:864:A:N6	1:AA:865:A:C6	2.83	0.47
2:AC:18:G:C6	2:AC:57:A:C6	3.01	0.47
5:AE:163:PHE:HA	5:AE:185:ILE:O	2.13	0.47
5:AE:8:LYS:O	5:AE:217:ARG:NH2	2.47	0.47
7:AG:127:THR:C	7:AG:146:ILE:HG22	2.34	0.47
7:AG:19:LEU:N	7:AG:33:MET:CE	2.74	0.47
8:AH:147:ASP:HA	8:AH:150:ARG:CG	2.43	0.47
8:AH:18:ARG:O	8:AH:25:ARG:O	2.32	0.47
9:AI:78:GLU:C	9:AI:81:ILE:HG13	2.34	0.47
9:AI:95:GLU:CD	9:AI:95:GLU:H	2.17	0.47
10:AJ:69:VAL:HB	10:AJ:104:LEU:HD11	1.95	0.47
10:AJ:103:TRP:CZ2	10:AJ:138:LYS:HA	2.49	0.47
1:AA:589:C:H4'	11:AK:29:SER:OG	2.14	0.47
12:AL:78:LYS:NZ	12:AL:101:PHE:HE2	2.10	0.47
12:AL:97:LYS:HD2	12:AL:102:LEU:HD21	1.95	0.47
14:AN:87:THR:HG22	14:AN:91:ARG:NH2	2.29	0.47
15:AO:36:VAL:HG23	15:AO:82:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:58:VAL:CG1	15:AO:59:ARG:N	2.76	0.47
18:AR:17:ARG:HG3	18:AR:17:ARG:NH1	2.30	0.47
18:AR:57:LEU:N	18:AR:57:LEU:HD12	2.29	0.47
19:AS:53:VAL:HA	19:AS:79:VAL:CG2	2.44	0.47
20:AT:104:LYS:HD3	20:AT:105:ALA:CA	2.43	0.47
21:AU:31:LEU:H	21:AU:31:LEU:HD12	1.80	0.47
21:AU:64:ARG:HH11	21:AU:64:ARG:CG	2.27	0.47
23:AW:89:ARG:O	23:AW:92:LEU:C	2.52	0.47
50:B2:39:ASP:OD2	50:B2:44:ARG:CD	2.62	0.47
55:B7:3:LYS:O	55:B7:4:MET:HB2	2.14	0.47
37:BO:49:ARG:HG3	55:B7:52:LYS:HD3	1.96	0.47
55:B7:4:MET:HB3	55:B7:7:HIS:NE2	2.29	0.47
25:BA:1009:A:N3	25:BA:1153:C:O2'	2.47	0.47
25:BA:1225:C:N3	25:BA:1226:G:N1	2.62	0.47
25:BA:1227:A:C3'	25:BA:1228:G:H5''	2.44	0.47
25:BA:1318:C:H2'	25:BA:1318:C:O2	2.14	0.47
25:BA:1381:G:C6	25:BA:1382:G:C4	3.03	0.47
25:BA:1655:A:H2'	25:BA:1656:C:C6	2.48	0.47
25:BA:1688:U:O2	25:BA:1698:A:C2	2.67	0.47
25:BA:1755:A:H5'	25:BA:1756:G:OP2	2.14	0.47
25:BA:1929:G:H5''	25:BA:1930:G:OP1	2.14	0.47
25:BA:1936:A:C4	25:BA:1940:U:N3	2.83	0.47
25:BA:1984:G:O2'	25:BA:1985:G:H5'	2.13	0.47
25:BA:2067:G:C6	25:BA:2069:G:N7	2.82	0.47
25:BA:2114:A:H1'	25:BA:2168:G:H5'	1.95	0.47
25:BA:2125:G:N2	25:BA:2172:U:H5'	2.27	0.47
25:BA:2227:A:C5	25:BA:2228:G:C8	3.02	0.47
25:BA:2298:A:C8	25:BA:2298:A:O5'	2.67	0.47
25:BA:2378:A:C2	25:BA:2379:G:C1'	2.94	0.47
25:BA:2291:U:H5'	25:BA:2380:C:O2	2.15	0.47
25:BA:2409:G:H21	25:BA:2410:G:H1'	1.75	0.47
25:BA:676:A:C8	25:BA:2443:C:H1'	2.48	0.47
25:BA:2447:G:N3	25:BA:2501:C:C4	2.82	0.47
25:BA:2511:U:C2'	25:BA:2512:C:H5'	2.44	0.47
25:BA:250:G:O2'	25:BA:251:A:O5'	2.32	0.47
25:BA:2621:A:O2'	25:BA:2622:C:O5'	2.31	0.47
25:BA:2665:A:C5'	25:BA:2665:A:C8	2.94	0.47
25:BA:2701:C:H5'	25:BA:2702:U:H5''	1.96	0.47
25:BA:270(B):A:C4'	25:BA:270(C):C:C6	2.94	0.47
25:BA:2715:C:C4	25:BA:2716:U:C4	3.02	0.47
25:BA:271(C):U:O4	25:BA:421:U:C2	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2733:A:C2'	25:BA:2734:A:O4'	2.60	0.47
25:BA:2787:C:P	29:BE:64:LYS:HD2	2.54	0.47
25:BA:27:G:O2'	25:BA:28:A:O4'	2.31	0.47
25:BA:2839:G:H21	39:BQ:91:GLN:CG	2.27	0.47
25:BA:2841:C:C2'	25:BA:2842:G:C8	2.89	0.47
25:BA:408:G:N3	25:BA:409:C:C6	2.81	0.47
25:BA:464:U:H2'	25:BA:465:G:O4'	2.13	0.47
25:BA:470:A:O2'	25:BA:471:A:P	2.72	0.47
25:BA:564:C:C5	25:BA:565:C:C5	3.00	0.47
25:BA:574:C:H4'	25:BA:575:A:H5'	1.96	0.47
25:BA:604:G:N1	25:BA:605:C:C4	2.82	0.47
25:BA:620:G:C5'	25:BA:621:A:OP1	2.60	0.47
25:BA:647:G:C2	25:BA:648:G:C5	3.02	0.47
25:BA:650:C:C2'	25:BA:650:C:O2	2.50	0.47
25:BA:696:G:H2'	25:BA:697:C:C6	2.40	0.47
25:BA:72:U:H2'	25:BA:73:A:OP1	2.14	0.47
25:BA:586:A:N6	25:BA:809:G:HO2'	2.12	0.47
25:BA:814:C:C2	25:BA:815:C:C6	3.02	0.47
25:BA:86:C:C2	25:BA:87:C:H5	2.32	0.47
26:BB:59:A:C8	26:BB:59:A:OP2	2.68	0.47
27:BC:103:ILE:HG12	27:BC:110:PHE:HE2	1.79	0.47
27:BC:184:LYS:O	27:BC:187:ASP:N	2.47	0.47
27:BC:204:ALA:O	27:BC:205:LYS:HD3	2.14	0.47
28:BD:142:VAL:HG21	28:BD:191:ALA:CB	2.44	0.47
28:BD:173:VAL:C	28:BD:174:ILE:HD12	2.33	0.47
28:BD:200:ASP:O	28:BD:201:HIS:C	2.53	0.47
28:BD:209:ALA:HB1	28:BD:213:ARG:CD	2.45	0.47
25:BA:1791:A:OP1	28:BD:213:ARG:HB3	2.14	0.47
25:BA:2596:U:C3'	28:BD:242:ARG:CZ	2.93	0.47
28:BD:181:GLU:OE2	28:BD:270:ILE:HB	2.12	0.47
25:BA:1816:G:P	28:BD:43:ARG:HH21	2.37	0.47
25:BA:2823:A:P	29:BE:113:PHE:CZ	3.08	0.47
29:BE:14:ILE:HD12	29:BE:14:ILE:H	1.78	0.47
29:BE:12:THR:HA	29:BE:21:VAL:CG2	2.40	0.47
29:BE:60:ASN:ND2	29:BE:61:ARG:H	2.11	0.47
29:BE:55:ASN:ND2	29:BE:73:GLU:HG3	2.28	0.47
30:BF:142:TRP:O	30:BF:143:ALA:C	2.52	0.47
30:BF:146:ALA:C	30:BF:148:LEU:HD22	2.33	0.47
30:BF:164:ARG:CG	30:BF:177:ALA:HB2	2.43	0.47
31:BG:135:LEU:HD21	31:BG:137:GLU:HB3	1.96	0.47
31:BG:75:LYS:CB	31:BG:84:LYS:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:11:VAL:HB	32:BH:50:VAL:HG22	1.95	0.47
32:BH:94:TYR:OH	32:BH:128:PRO:HG2	2.14	0.47
35:BM:115:ARG:HA	35:BM:118:LYS:CD	2.43	0.47
35:BM:40:PRO:O	35:BM:41:ASP:CB	2.60	0.47
36:BN:68:GLU:OE1	36:BN:102:VAL:CG1	2.62	0.47
36:BN:25:LEU:O	36:BN:26:LYS:O	2.32	0.47
36:BN:43:VAL:HG11	36:BN:54:GLU:C	2.34	0.47
37:BO:130:PHE:HB2	37:BO:135:LEU:CD1	2.44	0.47
38:BP:67:ARG:HB2	38:BP:103:MET:HA	1.95	0.47
38:BP:48:GLU:HA	38:BP:51:ARG:CG	2.43	0.47
40:BR:39:ILE:HD12	40:BR:49:VAL:CG1	2.44	0.47
40:BR:36:TYR:HH	40:BR:50:SER:HB2	1.76	0.47
25:BA:2376:A:N1	40:BR:87:PHE:HZ	2.12	0.47
40:BR:93:LYS:O	40:BR:98:VAL:CG1	2.63	0.47
41:BS:54:ARG:NE	41:BS:100:TYR:HB3	2.29	0.47
41:BS:6:LEU:N	41:BS:6:LEU:HD13	2.23	0.47
25:BA:1156:A:P	42:BT:55:ARG:HH12	2.34	0.47
43:BU:60:GLU:CG	43:BU:100:ARG:O	2.60	0.47
43:BU:42:GLY:O	43:BU:48:GLY:HA2	2.14	0.47
45:BW:29:TRP:CD2	45:BW:76:ARG:NE	2.71	0.47
45:BW:89:ILE:HG22	45:BW:89:ILE:O	2.14	0.47
38:BP:61:GLY:HA3	47:BY:177:PRO:HB2	1.95	0.47
47:BY:7:ALA:HB1	47:BY:38:TYR:CE1	2.49	0.47
47:BY:56:VAL:HB	47:BY:135:GLU:CD	2.34	0.47
33:BK:66:GLU:OE2	33:BK:69:LYS:HD3	2.14	0.47
25:BA:1076:C:O2'	34:BL:90:LYS:CD	2.50	0.47
5:AE:35:GLU:O	5:AE:36:ARG:NE	2.46	0.47
25:BA:2185:C:H2'	25:BA:2186:G:C8	2.32	0.47
3:AD:26:A:H61	3:AD:44:G:H1	1.62	0.47
14:AN:114:VAL:CG2	14:AN:115:PRO:CD	2.91	0.47
1:AA:1285:A:OP1	1:AA:1285:A:C8	2.67	0.47
1:AA:1363:A:C2	1:AA:1365:G:C6	3.02	0.47
1:AA:1376:U:O2	1:AA:1377:A:N7	2.47	0.47
1:AA:937:A:N3	1:AA:1379:G:C6	2.82	0.47
1:AA:138:G:O2'	1:AA:139:G:H5'	2.14	0.47
1:AA:1451:A:C2'	1:AA:1452:C:OP1	2.62	0.47
1:AA:1521:G:C6	1:AA:1522:U:C4	3.02	0.47
1:AA:1521:G:O2'	1:AA:1522:U:H5'	2.13	0.47
1:AA:342:C:O2'	1:AA:343:U:H5'	2.14	0.47
1:AA:62:U:H5''	1:AA:385:C:O2	2.13	0.47
1:AA:391:G:P	19:AS:28:ARG:NH2	2.86	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:394:G:C6	1:AA:395:C:C4	3.02	0.47
1:AA:405:U:O2	1:AA:405:U:C2'	2.53	0.47
1:AA:474:G:H5'	19:AS:81:ARG:NE	2.28	0.47
1:AA:483:C:C6	1:AA:483:C:O5'	2.68	0.47
1:AA:520:A:H8	1:AA:520:A:H3'	1.80	0.47
1:AA:533:A:C2'	1:AA:534:U:O5'	2.63	0.47
1:AA:644:G:O6	1:AA:645:C:N3	2.47	0.47
1:AA:664:G:C8	1:AA:664:G:C3'	2.97	0.47
1:AA:670:G:C2'	1:AA:671:G:H5'	2.43	0.47
1:AA:716:A:N3	14:AN:117:ASN:O	2.48	0.47
1:AA:735:C:O2'	1:AA:736:C:O5'	2.32	0.47
1:AA:660:G:C6	1:AA:746:A:C6	3.02	0.47
1:AA:781:A:H2'	1:AA:782:A:O4'	2.14	0.47
1:AA:808:C:P	18:AR:48:LYS:NZ	2.87	0.47
1:AA:880:C:C2	1:AA:881:G:C8	3.02	0.47
1:AA:940:C:C2	1:AA:941:G:N7	2.82	0.47
2:AC:33:U:H6	2:AC:33:U:O5'	1.96	0.47
3:AD:35:A:N1	4:A1:14:A:C2	2.82	0.47
5:AE:62:ALA:CB	5:AE:225:ALA:HB3	2.45	0.47
1:AA:829:G:H1'	5:AE:26:PRO:HG2	1.95	0.47
5:AE:33:TYR:HB2	5:AE:43:ASP:CA	2.44	0.47
5:AE:33:TYR:CD2	5:AE:43:ASP:HA	2.49	0.47
6:AF:136:GLN:O	6:AF:139:GLN:N	2.47	0.47
6:AF:7:PRO:HG3	6:AF:184:TYR:CD1	2.50	0.47
6:AF:58:GLU:HB2	6:AF:65:ALA:CB	2.44	0.47
7:AG:14:ARG:C	7:AG:14:ARG:HD3	2.35	0.47
8:AH:11:ILE:HG22	8:AH:31:LEU:HD13	1.96	0.47
9:AI:3:ARG:HA	9:AI:65:VAL:O	2.14	0.47
9:AI:96:PRO:O	21:AU:32:ARG:HG3	2.15	0.47
10:AJ:76:ARG:CD	10:AJ:156:TRP:HE1	2.27	0.47
10:AJ:17:VAL:HG12	10:AJ:17:VAL:O	2.14	0.47
11:AK:51:VAL:HG12	11:AK:52:ASP:N	2.29	0.47
11:AK:87:SER:HB3	11:AK:92:ARG:HA	1.96	0.47
11:AK:96:GLY:O	11:AK:97:VAL:HG12	2.14	0.47
12:AL:66:ARG:C	12:AL:73:GLN:HE21	2.18	0.47
13:AM:23:ILE:O	13:AM:27:ALA:HB3	2.13	0.47
14:AN:106:LYS:HG2	14:AN:107:SER:N	2.26	0.47
14:AN:23:ALA:HB1	14:AN:28:THR:HG1	1.80	0.47
15:AO:47:LYS:H	15:AO:48:PRO:CD	2.26	0.47
19:AS:27:LYS:HZ2	19:AS:27:LYS:H	1.61	0.47
19:AS:43:LYS:CA	19:AS:48:TRP:CE3	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:130:A:C8	20:AT:63:ARG:HG3	2.46	0.47
20:AT:75:ARG:NH1	20:AT:77:VAL:HA	2.30	0.47
1:AA:1455:G:OP1	23:AW:35:THR:HG21	2.13	0.47
23:AW:83:ARG:O	23:AW:84:LEU:C	2.52	0.47
49:B1:30:LEU:HD11	49:B1:44:LYS:HB3	1.96	0.47
25:BA:400:G:O6	51:B3:63:TYR:CE2	2.67	0.47
52:B4:44:THR:C	52:B4:52:TYR:OH	2.52	0.47
53:B5:15:GLU:OE1	53:B5:15:GLU:CA	2.62	0.47
53:B5:25:LYS:C	53:B5:26:ASN:ND2	2.67	0.47
53:B5:50:ARG:NE	53:B5:52:VAL:CG2	2.77	0.47
25:BA:1004:C:O4'	25:BA:1010:A:C2	2.68	0.47
25:BA:980:A:H62	25:BA:1135:C:H5''	1.80	0.47
25:BA:1020:A:N3	25:BA:1140:C:C2	2.82	0.47
25:BA:1237:A:O2'	25:BA:1238:G:P	2.73	0.47
25:BA:1238:G:C2	25:BA:1239:G:N9	2.82	0.47
25:BA:1264:G:H3'	25:BA:1264:G:H8	1.79	0.47
25:BA:1309:G:N1	25:BA:1310:G:N7	2.62	0.47
25:BA:1391:U:O2	25:BA:1393:A:C8	2.62	0.47
25:BA:1469:A:N6	25:BA:1470:G:N2	2.04	0.47
25:BA:1472:A:C5	25:BA:1473:G:O6	2.67	0.47
25:BA:1534:G:H3'	25:BA:1534:G:C8	2.49	0.47
25:BA:1582:C:N3	25:BA:1583:A:C5	2.83	0.47
25:BA:1655:A:N3	25:BA:1656:C:H1'	2.29	0.47
25:BA:1661:G:O2'	25:BA:1662:C:C5'	2.62	0.47
25:BA:152:G:N2	25:BA:175:G:C4	2.83	0.47
25:BA:1770:G:C6	25:BA:1983:C:N4	2.82	0.47
25:BA:1998:G:O2'	25:BA:2724:C:H1'	2.14	0.47
25:BA:204:A:O2'	25:BA:205:G:O5'	2.27	0.47
25:BA:2061:G:C2'	25:BA:2063:C:H41	2.25	0.47
25:BA:2106:G:N1	25:BA:2184:G:C5	2.82	0.47
25:BA:2127:G:N2	25:BA:2128:C:H1'	2.29	0.47
25:BA:2167:U:O2	25:BA:2167:U:H2'	2.13	0.47
25:BA:2199:A:C2'	25:BA:2205:C:H5'	2.44	0.47
25:BA:2250:G:OP2	25:BA:2275:C:H2'	2.14	0.47
25:BA:2442:C:O2'	25:BA:2443:C:H5'	2.14	0.47
25:BA:2507:C:C5'	25:BA:2573:C:N4	2.71	0.47
25:BA:2565:A:H2'	25:BA:2566:A:H1'	1.96	0.47
25:BA:2714:G:H2'	25:BA:2715:C:H5'	1.96	0.47
25:BA:273(A):G:H2'	25:BA:273(B):C:C6	2.48	0.47
25:BA:2742:C:C2'	25:BA:2743:C:H5'	2.44	0.47
25:BA:2749:A:OP2	25:BA:2751:G:OP2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:282:A:H2'	25:BA:284:U:P	2.54	0.47
25:BA:273(F):C:O2'	25:BA:363(A):A:N1	2.45	0.47
25:BA:388:G:N3	25:BA:390:A:N6	2.61	0.47
25:BA:502:A:H2'	25:BA:503:A:C8	2.49	0.47
25:BA:570:G:OP1	25:BA:821:A:N6	2.48	0.47
25:BA:673:C:H5'	30:BF:82:ILE:HG23	1.96	0.47
25:BA:674:G:H2'	25:BA:804:A:N1	2.29	0.47
25:BA:66:C:C4	25:BA:67:U:O4	2.67	0.47
25:BA:70:G:H2'	25:BA:114:U:H5	1.79	0.47
25:BA:714:U:C5'	25:BA:715:G:P	3.02	0.47
25:BA:77:C:C2	25:BA:78:A:N7	2.81	0.47
25:BA:783:A:H3'	28:BD:227:ASN:ND2	2.30	0.47
25:BA:795:C:H2'	25:BA:796:C:O5'	2.14	0.47
27:BC:30:LYS:HZ1	27:BC:182:PRO:CD	2.05	0.47
27:BC:5:LYS:N	27:BC:5:LYS:HD2	2.29	0.47
28:BD:196:VAL:CG1	28:BD:197:GLY:N	2.39	0.47
28:BD:229:VAL:HG13	28:BD:230:ASP:OD1	2.13	0.47
28:BD:9:TYR:O	28:BD:10:THR:HB	2.13	0.47
29:BE:116:VAL:HG12	29:BE:120:TRP:NE1	2.29	0.47
29:BE:134:ILE:O	29:BE:135:HIS:C	2.52	0.47
29:BE:176:ILE:HD11	29:BE:179:GLU:HG2	1.95	0.47
29:BE:60:ASN:CA	29:BE:63:LEU:HG	2.44	0.47
30:BF:168:ARG:CG	30:BF:169:ASN:N	2.74	0.47
30:BF:41:LEU:CB	30:BF:44:ARG:NH1	2.72	0.47
31:BG:103:LEU:CD2	31:BG:176:LEU:HD21	2.43	0.47
31:BG:22:ARG:CD	31:BG:23:PHE:HD2	2.27	0.47
32:BH:12:PRO:O	32:BH:13:LYS:CG	2.56	0.47
32:BH:26:VAL:HG12	32:BH:79:VAL:HG11	1.95	0.47
32:BH:29:PRO:CD	32:BH:79:VAL:O	2.60	0.47
33:BK:46:ALA:O	33:BK:49:ALA:HB3	2.14	0.47
35:BM:39:ARG:HB3	35:BM:48:MET:CG	2.43	0.47
35:BM:46:VAL:CG1	35:BM:48:MET:O	2.62	0.47
36:BN:11:ALA:O	36:BN:12:ASP:HB3	2.14	0.47
38:BP:36:ALA:O	38:BP:100:GLY:CA	2.60	0.47
38:BP:44:ALA:O	38:BP:45:GLN:C	2.51	0.47
38:BP:98:LYS:HZ2	38:BP:99:PRO:CD	2.28	0.47
39:BQ:11:ASN:ND2	39:BQ:12:ARG:H	2.11	0.47
41:BS:14:TYR:CD1	41:BS:14:TYR:N	2.81	0.47
41:BS:30:VAL:HG22	41:BS:32:TYR:OH	2.14	0.47
41:BS:54:ARG:CD	41:BS:55:ASN:N	2.74	0.47
41:BS:65:LYS:HZ3	41:BS:75:ILE:CD1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:39:LEU:O	42:BT:40:PHE:C	2.52	0.47
43:BU:13:ARG:O	43:BU:14:VAL:HG22	2.14	0.47
43:BU:15:GLU:OE1	43:BU:16:PRO:HD3	2.13	0.47
43:BU:20:LEU:CD1	43:BU:68:LYS:HZ1	2.15	0.47
44:BV:11:ARG:O	44:BV:11:ARG:HG2	2.14	0.47
25:BA:26:G:OP1	44:BV:80:PRO:HG3	2.13	0.47
46:BX:40:GLU:H	46:BX:62:GLU:CG	2.27	0.47
47:BY:93:ASP:O	47:BY:94:GLU:CB	2.59	0.47
48:BZ:35:ASN:ND2	48:BZ:35:ASN:N	2.56	0.47
34:BL:9:LYS:HG2	34:BL:56:GLU:CG	2.41	0.47
1:AA:1446:A:O2'	1:AA:1447:G:O5'	2.31	0.47
1:AA:1002:G:O4'	1:AA:1002:G:P	2.73	0.47
1:AA:1158:C:H2'	1:AA:1158:C:O2	2.14	0.47
1:AA:1214:C:O2	1:AA:1214:C:H2'	2.14	0.47
1:AA:977:A:N6	1:AA:1224:G:OP1	2.47	0.47
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.13	0.47
1:AA:954:G:N2	1:AA:1228:C:N4	2.62	0.47
1:AA:1269:A:C2	1:AA:1312:G:N3	2.83	0.47
1:AA:1285:A:OP1	1:AA:1285:A:H8	1.96	0.47
1:AA:1301:U:O4	1:AA:1303:C:C2	2.68	0.47
1:AA:1396:A:H4'	1:AA:1397:C:H5''	1.96	0.47
1:AA:17:U:C2	1:AA:18:C:C6	3.03	0.47
1:AA:226:G:C2	1:AA:227:G:C4	3.02	0.47
1:AA:309:G:H2'	1:AA:310:G:H8	1.80	0.47
1:AA:354:G:C6	1:AA:355:C:C4	3.02	0.47
1:AA:362:G:OP1	15:AO:61:THR:HG22	2.14	0.47
1:AA:364:A:C2	1:AA:365:U:O4	2.68	0.47
1:AA:369:C:OP2	1:AA:388:G:N1	2.36	0.47
1:AA:445:G:O2'	1:AA:446:G:C5'	2.61	0.47
1:AA:475:G:N3	1:AA:476:G:C8	2.83	0.47
1:AA:497:U:O2	1:AA:498:A:H8	1.97	0.47
1:AA:126:G:O2'	1:AA:635:G:H5'	2.13	0.47
1:AA:689:C:OP2	14:AN:46:GLY:HA3	2.14	0.47
1:AA:717:C:C2'	1:AA:718:G:OP2	2.62	0.47
1:AA:792:A:O2'	1:AA:794:A:C5	2.56	0.47
1:AA:795:C:O4'	1:AA:1506:U:C2	2.67	0.47
1:AA:826:C:C4'	11:AK:12:ARG:HB3	2.45	0.47
1:AA:869:G:C4'	1:AA:872:A:C8	2.98	0.47
1:AA:961:U:H6	1:AA:983:A:N3	2.13	0.47
1:AA:992:U:OP2	1:AA:993:G:C8	2.67	0.47
2:AC:57:A:H8	2:AC:57:A:O5'	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:36:A:C2'	3:AD:37:A:H8	2.26	0.47
5:AE:125:PRO:C	5:AE:127:ILE:N	2.67	0.47
5:AE:59:GLU:CB	5:AE:221:LEU:HD11	2.44	0.47
5:AE:64:ARG:HG2	5:AE:66:GLY:N	2.29	0.47
5:AE:57:PHE:HE2	5:AE:64:ARG:NH1	2.12	0.47
6:AF:7:PRO:O	6:AF:11:ARG:HG2	2.14	0.47
6:AF:17:ASP:O	6:AF:18:TRP:C	2.52	0.47
7:AG:122:ARG:HA	7:AG:134:ASP:CB	2.32	0.47
7:AG:26:CYS:O	7:AG:33:MET:CG	2.62	0.47
8:AH:82:VAL:CG1	8:AH:89:ILE:CG2	2.87	0.47
9:AI:91:VAL:HG22	21:AU:72:ARG:HH22	1.78	0.47
10:AJ:20:ASP:HB3	10:AJ:23:VAL:HG23	1.95	0.47
11:AK:100:ILE:HG12	11:AK:125:ARG:CZ	2.44	0.47
11:AK:99:GLU:O	11:AK:101:PRO:CD	2.63	0.47
1:AA:1177:G:OP2	12:AL:93:ARG:NH2	2.47	0.47
13:AM:42:THR:HG23	13:AM:68:HIS:HA	1.96	0.47
14:AN:14:VAL:HG11	14:AN:35:PRO:CG	2.44	0.47
14:AN:54:ARG:NH1	14:AN:54:ARG:CG	2.69	0.47
14:AN:85:ARG:HH11	14:AN:85:ARG:CG	2.26	0.47
14:AN:95:ILE:H	14:AN:95:ILE:HG13	1.53	0.47
15:AO:44:THR:HB	15:AO:45:PRO:HD2	1.96	0.47
16:AP:116:THR:O	16:AP:116:THR:OG1	2.32	0.47
20:AT:98:LEU:HD13	20:AT:102:GLY:O	2.14	0.47
11:AK:91:ARG:NH1	20:AT:33:GLY:HA3	2.30	0.47
9:AI:91:VAL:CG1	21:AU:72:ARG:NH2	2.77	0.47
23:AW:53:LEU:O	23:AW:56:MET:CB	2.63	0.47
50:B2:5:LYS:HB2	50:B2:35:ARG:O	2.15	0.47
25:BA:1809:A:C2	51:B3:3:GLU:OE1	2.67	0.47
51:B3:11:PRO:CA	51:B3:40:HIS:NE2	2.74	0.47
25:BA:2615:U:H1'	52:B4:7:PRO:HA	1.96	0.47
54:B6:42:LEU:CD2	54:B6:44:PRO:HD2	2.44	0.47
56:B8:30:PRO:HG2	56:B8:31:LYS:N	2.29	0.47
25:BA:1030:G:N2	25:BA:1031:G:C4	2.83	0.47
25:BA:1155:A:HO2'	25:BA:1156:A:C5'	2.27	0.47
25:BA:1178:C:O2'	25:BA:1179:C:P	2.73	0.47
25:BA:1210:A:C5	25:BA:1237:A:C6	3.03	0.47
25:BA:1215:G:H2'	25:BA:1216:G:H5'	1.96	0.47
25:BA:1222:C:N3	25:BA:1227:A:N6	2.62	0.47
25:BA:1223:C:N3	25:BA:1227:A:N1	2.63	0.47
25:BA:1431:U:H2'	25:BA:1432:C:O4'	2.15	0.47
25:BA:1514:U:C2'	25:BA:1514:U:O2	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1562:A:C4	25:BA:1563:G:C8	3.02	0.47
25:BA:1408:C:N3	25:BA:1595:G:C2	2.83	0.47
25:BA:1655:A:H4'	29:BE:114:ALA:HA	1.96	0.47
25:BA:1698:A:H2'	25:BA:1699:G:OP2	2.15	0.47
25:BA:1705:G:N3	25:BA:1705:G:H2'	2.29	0.47
25:BA:1709:U:C5'	25:BA:1709:U:H6	2.24	0.47
25:BA:1731:G:N3	25:BA:1731:G:C2'	2.77	0.47
25:BA:1772:G:H2'	25:BA:1773:A:H4'	1.95	0.47
25:BA:1890:A:C2	25:BA:1891:G:H1'	2.49	0.47
25:BA:1934:C:O2	25:BA:1935:G:C8	2.67	0.47
25:BA:1996:C:N3	25:BA:1997:G:H1'	2.29	0.47
25:BA:2075:U:OP2	25:BA:2075:U:H3'	2.13	0.47
25:BA:209:C:H2'	25:BA:210:C:O4'	2.14	0.47
25:BA:2148:G:N3	25:BA:2149:G:N7	2.62	0.47
25:BA:216:A:N6	25:BA:432:A:N9	2.62	0.47
25:BA:2205:C:N4	25:BA:2206:C:N4	2.62	0.47
25:BA:2289:G:H5'	25:BA:2384:G:O2'	2.15	0.47
25:BA:2375:G:H1'	25:BA:2377:A:N7	2.30	0.47
25:BA:2395:C:C2	25:BA:2396:G:C8	3.02	0.47
25:BA:2246:G:C1'	25:BA:2426:A:C2	2.97	0.47
25:BA:675:A:N3	25:BA:2443:C:O2'	2.46	0.47
25:BA:2578:G:HO2'	25:BA:2579:C:P	2.36	0.47
25:BA:2624:G:N2	25:BA:2625:G:H1'	2.30	0.47
25:BA:2658:C:N4	25:BA:2659:G:C2	2.83	0.47
25:BA:1755:A:H62	25:BA:2694:G:H1'	1.79	0.47
25:BA:270(A):A:OP2	25:BA:270(B):A:C2	2.67	0.47
25:BA:2759:G:N2	25:BA:2760:C:C2	2.83	0.47
25:BA:2784:C:H1'	29:BE:41:LYS:HZ3	1.78	0.47
25:BA:2851:A:H2'	25:BA:2852:G:O5'	2.14	0.47
25:BA:364:C:O2	25:BA:365:C:C5	2.67	0.47
25:BA:402:A:N3	25:BA:406:G:O2'	2.47	0.47
25:BA:447:A:C6	25:BA:473:G:N9	2.83	0.47
25:BA:637:A:H5'	25:BA:638:G:O5'	2.14	0.47
25:BA:629:G:OP1	25:BA:649:G:O2'	2.33	0.47
25:BA:747:U:O5'	25:BA:747:U:C6	2.67	0.47
25:BA:467:G:HO2'	25:BA:797:C:H5'	1.78	0.47
25:BA:878:A:C4	25:BA:879:G:C5	3.01	0.47
25:BA:942:G:C6	25:BA:943:U:C4	3.03	0.47
25:BA:95:G:O3'	49:B1:40:SER:HA	2.14	0.47
26:BB:100:G:N7	26:BB:101:A:N7	2.62	0.47
26:BB:52:A:N3	26:BB:53:A:O4'	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:78:ALA:HB2	27:BC:116:THR:HG23	1.94	0.47
27:BC:100:ILE:HG23	27:BC:127:LEU:CD1	2.44	0.47
27:BC:14:VAL:CG1	27:BC:16:PRO:HD3	2.44	0.47
27:BC:27:HIS:CD2	27:BC:182:PRO:CB	2.95	0.47
27:BC:39:GLU:HG3	27:BC:40:THR:N	2.28	0.47
28:BD:176:ARG:CG	28:BD:176:ARG:NH1	2.65	0.47
28:BD:94:LEU:HD11	28:BD:102:LYS:HB3	1.95	0.47
25:BA:2052:G:C4	29:BE:150:VAL:HG23	2.49	0.47
29:BE:33:VAL:HG21	29:BE:77:ILE:CD1	2.45	0.47
25:BA:2305:A:HO2'	31:BG:154:GLY:HA2	1.79	0.47
31:BG:15:VAL:O	31:BG:18:GLU:HB3	2.14	0.47
31:BG:21:ARG:NH1	31:BG:28:VAL:H	2.13	0.47
32:BH:64:LEU:O	32:BH:67:LEU:HB2	2.14	0.47
32:BH:96:ALA:O	32:BH:128:PRO:HG3	2.15	0.47
36:BN:106:LEU:HD11	41:BS:38:ASN:ND2	2.29	0.47
37:BO:45:LEU:CB	37:BO:46:LYS:HE3	2.32	0.47
25:BA:1242:A:N1	37:BO:6:LEU:HD21	2.29	0.47
38:BP:114:ALA:O	38:BP:118:LEU:CD2	2.63	0.47
38:BP:66:ILE:N	38:BP:105:GLU:CG	2.75	0.47
38:BP:85:LYS:HG3	38:BP:86:GLY:N	2.29	0.47
40:BR:64:GLU:OE2	40:BR:67:ARG:CB	2.59	0.47
40:BR:67:ARG:HH21	40:BR:67:ARG:HG2	1.79	0.47
42:BT:91:ASP:OD1	43:BU:10:LYS:CE	2.62	0.47
42:BT:97:ASP:OD1	42:BT:97:ASP:N	2.41	0.47
43:BU:15:GLU:CA	43:BU:100:ARG:NH2	2.78	0.47
43:BU:15:GLU:C	43:BU:100:ARG:CZ	2.82	0.47
43:BU:20:LEU:HB3	43:BU:95:LEU:CD2	2.36	0.47
43:BU:27:ALA:HB1	43:BU:33:VAL:HG11	1.96	0.47
43:BU:35:LEU:CA	43:BU:61:VAL:HG13	2.43	0.47
44:BV:34:ASN:HD21	44:BV:37:ARG:HH11	1.56	0.47
44:BV:59:VAL:HG21	44:BV:66:GLU:CA	2.43	0.47
44:BV:83:LYS:HA	44:BV:96:ILE:O	2.14	0.47
45:BW:20:GLY:CA	45:BW:25:LYS:O	2.63	0.47
33:BK:122:GLU:O	33:BK:123:LEU:CB	2.62	0.47
33:BK:114:LEU:H	33:BK:131:LYS:HZ1	1.63	0.47
33:BK:63:ALA:CA	33:BK:67:ARG:HH21	2.28	0.47
34:BL:60:TYR:O	34:BL:61:ALA:O	2.32	0.47
1:AA:1034:G:C2	1:AA:1035:A:C5	3.02	0.47
1:AA:1009:G:C6	1:AA:1021:G:C6	3.02	0.47
1:AA:1063:C:H5'	1:AA:1064:G:OP2	2.15	0.47
1:AA:1069:C:O2'	1:AA:1192:C:O2'	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1096:C:C2'	1:AA:1097:C:O5'	2.62	0.47
1:AA:1201:A:C2'	1:AA:1202:G:OP2	2.62	0.47
1:AA:1269:A:N6	1:AA:1312:G:HO2'	2.12	0.47
1:AA:1430:C:H2'	1:AA:1431:C:H6	1.79	0.47
1:AA:1468:A:H8	1:AA:1468:A:OP2	1.96	0.47
1:AA:148:G:C2	1:AA:175:C:C4	3.03	0.47
1:AA:191(C):G:C2'	1:AA:191(D):U:C6	2.78	0.47
1:AA:223:U:H2'	1:AA:224:C:H6	1.79	0.47
1:AA:262:A:C6	1:AA:263:A:N6	2.83	0.47
1:AA:264:U:H3'	1:AA:264:U:O2	2.15	0.47
1:AA:341:C:O2'	1:AA:342:C:C5'	2.62	0.47
1:AA:345:C:H5'	1:AA:346:G:C4	2.50	0.47
1:AA:42:G:C6	1:AA:43:C:C4	3.02	0.47
1:AA:625:G:C6	1:AA:626:U:C4	3.03	0.47
1:AA:695:A:C4	1:AA:696:A:C8	3.02	0.47
1:AA:782:A:N1	1:AA:801:U:C2	2.83	0.47
1:AA:828:A:O2'	1:AA:829:G:O4'	2.32	0.47
1:AA:853:G:H2'	1:AA:854:G:C8	2.50	0.47
1:AA:862:C:C4	1:AA:863:U:O4	2.67	0.47
1:AA:874:G:N2	1:AA:875:C:N1	2.63	0.47
1:AA:960:U:C2	1:AA:1225:A:N7	2.83	0.47
1:AA:969:A:H2'	1:AA:969:A:N3	2.29	0.47
1:AA:969:A:N6	1:AA:970:C:N4	2.63	0.47
1:AA:979:C:OP1	1:AA:1223:C:N4	2.47	0.47
2:AC:16:C:OP2	2:AC:60:U:O2'	2.25	0.47
2:AC:9:G:H5''	2:AC:10:G:OP2	2.14	0.47
5:AE:20:GLU:HG2	5:AE:189:ASP:OD2	2.14	0.47
5:AE:31:TYR:HE2	5:AE:200:ILE:CG2	2.26	0.47
5:AE:83:MET:O	5:AE:87:ARG:HG3	2.15	0.47
6:AF:131:ARG:HD3	8:AH:50:GLU:OE1	2.14	0.47
6:AF:110:ASN:HD21	6:AF:140:ARG:CD	2.27	0.47
7:AG:198:VAL:O	7:AG:199:ASN:CB	2.62	0.47
7:AG:67:ILE:CD1	7:AG:68:TYR:CD1	2.97	0.47
9:AI:14:LEU:HD12	9:AI:15:ASP:H	1.79	0.47
9:AI:77:ARG:N	9:AI:80:ARG:HE	2.11	0.47
9:AI:96:PRO:C	21:AU:32:ARG:HG3	2.34	0.47
9:AI:98:LEU:HD21	21:AU:28:GLU:CG	2.44	0.47
10:AJ:70:LYS:O	10:AJ:138:LYS:HE3	2.14	0.47
11:AK:104:ARG:C	11:AK:106:GLY:N	2.67	0.47
11:AK:114:THR:C	11:AK:116:LYS:H	2.17	0.47
11:AK:22:GLU:HA	11:AK:63:LEU:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:50:LEU:HD21	12:AL:55:ALA:O	2.15	0.47
13:AM:7:LYS:HG2	13:AM:71:LEU:HD11	1.95	0.47
13:AM:96:ILE:HB	13:AM:98:ILE:CD1	2.44	0.47
14:AN:19:ALA:HA	14:AN:31:THR:O	2.15	0.47
14:AN:67:ASP:CA	14:AN:70:LYS:HD2	2.41	0.47
18:AR:3:ILE:HA	18:AR:38:ARG:NH1	2.28	0.47
1:AA:668:G:C1'	18:AR:46:HIS:NE2	2.73	0.47
19:AS:18:ARG:NH1	19:AS:32:TYR:OH	2.47	0.47
20:AT:75:ARG:NH2	20:AT:77:VAL:CG2	2.76	0.47
21:AU:37:VAL:CG1	21:AU:41:LYS:NZ	2.77	0.47
1:AA:735:C:HO2'	21:AU:75:ILE:HD11	1.77	0.47
22:AV:44:MET:HA	22:AV:47:HIS:HE2	1.80	0.47
23:AW:42:GLN:O	23:AW:45:GLN:CB	2.54	0.47
49:B1:1:MET:SD	49:B1:3:LYS:HB3	2.54	0.47
53:B5:37:ARG:HB2	53:B5:51:GLU:HB3	1.95	0.47
54:B6:17:GLY:O	54:B6:21:ARG:NH1	2.43	0.47
55:B7:12:LYS:O	55:B7:13:ARG:O	2.32	0.47
56:B8:11:CYS:HB3	56:B8:32:HIS:CD2	2.49	0.47
25:BA:1000:A:N7	25:BA:1001:A:C6	2.83	0.47
25:BA:1048:A:N3	25:BA:1048:A:H2'	2.29	0.47
25:BA:1138:G:O2'	25:BA:1139:G:H5'	2.15	0.47
25:BA:1139:G:H2'	25:BA:1140:C:H5''	1.96	0.47
25:BA:1152:C:H2'	25:BA:1153:C:C5'	2.44	0.47
25:BA:1340:U:C2'	25:BA:1341:U:OP1	2.62	0.47
25:BA:1464:C:H4'	25:BA:1528:A:H1'	1.95	0.47
25:BA:1464:C:C2	25:BA:1465:G:N7	2.82	0.47
25:BA:1499:C:C2	25:BA:1500:G:C8	3.02	0.47
25:BA:1534:G:N1	25:BA:1538:G:C5	2.82	0.47
25:BA:1548:C:H2'	25:BA:1549:C:C6	2.50	0.47
25:BA:1646:C:O2'	25:BA:1647:G:OP1	2.27	0.47
25:BA:1703:G:H2'	25:BA:1704:G:O4'	2.14	0.47
25:BA:171:G:N3	25:BA:172:C:N4	2.63	0.47
25:BA:1858:G:HO2'	25:BA:1859:A:C5'	2.28	0.47
25:BA:1892:C:N3	25:BA:1893:C:C5	2.82	0.47
25:BA:1912:A:H61	25:BA:1919:A:C1'	2.26	0.47
25:BA:192:C:C6	25:BA:193:U:C5	3.02	0.47
25:BA:1972:A:C2	25:BA:1973:G:N7	2.83	0.47
25:BA:1980:G:O2'	25:BA:1982:C:OP2	2.31	0.47
25:BA:2305:A:O3'	31:BG:136:ARG:CG	2.62	0.47
25:BA:2331:G:C2	25:BA:2385:C:C4	3.01	0.47
25:BA:2403:C:N4	25:BA:2415:G:C6	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2549:G:C2'	25:BA:2550:G:C5'	2.88	0.47
25:BA:2644:G:N1	25:BA:2645:G:C2	2.82	0.47
25:BA:2828:C:O2	25:BA:2829:C:C5	2.67	0.47
25:BA:2872:G:N2	25:BA:2873:A:N6	2.62	0.47
25:BA:387:U:O2'	51:B3:23:GLU:OE2	2.32	0.47
25:BA:464:U:C2	25:BA:788:A:C5	3.02	0.47
25:BA:542:C:C2	25:BA:543:C:C6	3.03	0.47
25:BA:571:A:C4	25:BA:2030:A:C6	3.02	0.47
25:BA:572:A:C6	25:BA:573:G:C2	3.03	0.47
25:BA:598:G:C4'	37:BO:13:ASN:HD22	2.27	0.47
25:BA:609(A):G:C8	25:BA:610:C:C5	3.02	0.47
25:BA:676:A:H2'	25:BA:677:A:C5'	2.44	0.47
25:BA:685:A:C2	25:BA:689:A:C6	3.02	0.47
25:BA:764:A:C6	25:BA:781:A:H2	2.28	0.47
25:BA:774:A:N9	25:BA:775:G:N7	2.63	0.47
25:BA:885:C:H42	25:BA:889:C:H1'	1.80	0.47
25:BA:910:A:N6	25:BA:911:A:H62	2.12	0.47
25:BA:969:U:C4	25:BA:970:C:C5	3.02	0.47
26:BB:110:G:C2	26:BB:111:U:H1'	2.50	0.47
26:BB:41:U:OP1	26:BB:42:C:C5	2.68	0.47
27:BC:32:LEU:CD1	27:BC:220:PRO:HG2	2.43	0.47
28:BD:176:ARG:NH1	28:BD:182:LEU:HD21	2.29	0.47
28:BD:142:VAL:HG21	28:BD:191:ALA:HB1	1.97	0.47
25:BA:1789:A:O2'	28:BD:220:HIS:CE1	2.67	0.47
28:BD:228:PRO:HD3	28:BD:235:GLY:HA3	1.95	0.47
25:BA:1804:C:OP1	28:BD:257:LEU:HD22	2.13	0.47
28:BD:259:THR:HG22	28:BD:260:ARG:CG	2.38	0.47
28:BD:260:ARG:HG3	28:BD:260:ARG:NH1	2.30	0.47
28:BD:45:ASN:O	28:BD:46:GLN:HG3	2.13	0.47
28:BD:5:LYS:O	28:BD:29:PRO:HD3	2.14	0.47
28:BD:61:LEU:HD13	28:BD:63:ARG:NH2	2.29	0.47
29:BE:170:LEU:CD1	29:BE:186:GLY:HA3	2.43	0.47
29:BE:49:LEU:HD13	29:BE:76:ARG:HG3	1.91	0.47
29:BE:52:LEU:CA	29:BE:74:PRO:HA	2.20	0.47
30:BF:120:GLU:N	30:BF:120:GLU:OE1	2.48	0.47
30:BF:158:THR:CG2	30:BF:196:LEU:H	2.28	0.47
30:BF:139:PHE:HE2	30:BF:167:ALA:HB2	1.78	0.47
30:BF:199:TRP:C	30:BF:203:GLN:OE1	2.52	0.47
31:BG:115:ARG:O	31:BG:117:PHE:HD1	1.97	0.47
31:BG:123:ASN:O	31:BG:124:SER:C	2.52	0.47
31:BG:121:ASN:CB	31:BG:133:LEU:HD21	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:127:GLU:CB	32:BH:129:THR:N	2.78	0.47
35:BM:139:GLU:O	35:BM:140:VAL:HG22	2.15	0.47
35:BM:30:ILE:HG22	35:BM:34:LEU:HD13	1.97	0.47
35:BM:39:ARG:HB3	35:BM:48:MET:HE2	1.90	0.47
35:BM:87:LEU:HG	35:BM:88:GLU:N	2.29	0.47
30:BF:38:ARG:NH1	37:BO:10:PRO:HA	2.29	0.47
25:BA:672:C:O5'	37:BO:38:GLN:CD	2.53	0.47
37:BO:65:ARG:NH1	37:BO:68:GLN:NE2	2.62	0.47
37:BO:7:ARG:N	37:BO:7:ARG:CD	2.65	0.47
38:BP:109:VAL:HG21	38:BP:114:ALA:CA	2.44	0.47
38:BP:122:GLY:C	38:BP:124:LYS:N	2.64	0.47
38:BP:124:LYS:O	38:BP:125:LEU:O	2.31	0.47
38:BP:16:ARG:CZ	38:BP:72:LYS:HA	2.44	0.47
40:BR:6:ALA:O	40:BR:9:ARG:CB	2.43	0.47
41:BS:105:LEU:C	41:BS:107:ASP:H	2.18	0.47
41:BS:113:LYS:O	41:BS:114:LEU:C	2.48	0.47
41:BS:15:VAL:O	41:BS:16:ARG:C	2.53	0.47
25:BA:533:G:O2'	42:BT:45:TYR:HD2	1.97	0.47
42:BT:66:ASN:N	42:BT:76:TYR:OH	2.47	0.47
42:BT:70:ARG:CG	42:BT:75:ASN:HA	2.44	0.47
42:BT:97:ASP:HB3	42:BT:101:ARG:CZ	2.44	0.47
44:BV:14:PRO:N	44:BV:78:GLU:OE1	2.47	0.47
45:BW:28:PHE:O	45:BW:79:ALA:O	2.32	0.47
46:BX:52:SER:HB3	46:BX:56:PRO:HB3	1.91	0.47
47:BY:110:GLY:C	47:BY:113:ALA:HB3	2.34	0.47
47:BY:35:ARG:O	47:BY:37:VAL:HG23	2.15	0.47
48:BZ:5:LYS:CG	48:BZ:6:GLY:H	2.22	0.47
25:BA:1077:A:H2'	25:BA:1078:U:C1'	2.45	0.47
34:BL:134:MET:C	34:BL:134:MET:SD	2.93	0.47
34:BL:18:THR:H	34:BL:19:PRO:HD2	1.80	0.47
34:BL:77:LEU:C	34:BL:80:LYS:HB2	2.35	0.47
1:AA:1122:U:H2'	1:AA:1123:A:O4'	2.15	0.47
26:BB:117:G:N2	26:BB:118:G:C8	2.82	0.47
33:BK:133:HIS:HB3	33:BK:136:VAL:HG23	1.94	0.47
33:BK:85:GLU:H	33:BK:85:GLU:CD	2.17	0.47
25:BA:1881:C:O4'	25:BA:1881:C:OP1	2.32	0.47
12:AL:99:LEU:N	12:AL:99:LEU:HD22	2.30	0.47
1:AA:1058:G:H8	1:AA:1058:G:O5'	1.98	0.47
1:AA:1078:U:C6	1:AA:1079:G:N7	2.82	0.47
1:AA:1102:A:C6	1:AA:1103:C:N4	2.82	0.47
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1227:A:H8	1:AA:1228:C:O4'	1.97	0.47
1:AA:1274:G:N2	1:AA:1275:A:N6	2.55	0.47
1:AA:1320:C:H2'	1:AA:1320:C:O2	2.14	0.47
1:AA:1440:C:C2'	1:AA:1441:G:H8	2.24	0.47
1:AA:1499:A:N7	1:AA:1500:A:N7	2.63	0.47
1:AA:152:A:N7	1:AA:153:C:C5	2.83	0.47
1:AA:198:G:N2	1:AA:199:G:C1'	2.78	0.47
1:AA:198:G:C2	1:AA:199:G:N9	2.82	0.47
1:AA:20:U:HO2'	1:AA:21:G:H5'	1.77	0.47
1:AA:340:U:O2'	1:AA:341:C:C5'	2.63	0.47
1:AA:40:C:O2	1:AA:41:G:C8	2.67	0.47
1:AA:458:C:C4	1:AA:475:G:N1	2.82	0.47
1:AA:535:A:N3	1:AA:535:A:C2'	2.77	0.47
1:AA:534:U:H5''	1:AA:535:A:OP2	2.14	0.47
1:AA:646:U:C2'	1:AA:647:C:O5'	2.62	0.47
1:AA:768:A:C5	1:AA:769:G:N7	2.81	0.47
1:AA:791:G:C5	1:AA:792:A:N7	2.82	0.47
1:AA:813:U:HO2'	1:AA:1511:G:HO2'	1.59	0.47
1:AA:899:C:H2'	1:AA:900:A:O4'	2.14	0.47
1:AA:994:A:C2	1:AA:995:C:C2	3.02	0.47
3:AD:34:G:OP1	3:AD:34:G:C5	2.68	0.47
3:AD:54:U:H4'	27:BC:54:SER:HG	1.74	0.47
5:AE:168:THR:HG21	5:AE:192:SER:CA	2.40	0.47
5:AE:171:ALA:N	5:AE:174:VAL:CG2	2.78	0.47
6:AF:95:THR:O	6:AF:97:LYS:HE2	2.14	0.47
7:AG:131:ARG:H	7:AG:131:ARG:CD	2.27	0.47
7:AG:153:ARG:HD3	7:AG:181:MET:CE	2.43	0.47
7:AG:57:ARG:CD	7:AG:202:LEU:HD23	2.42	0.47
1:AA:1193:G:O2'	8:AH:25:ARG:NH1	2.48	0.47
8:AH:76:ILE:HD11	8:AH:139:LEU:HD23	1.94	0.47
11:AK:10:LEU:CD2	11:AK:135:CYS:SG	3.03	0.47
11:AK:8:ASP:CA	11:AK:11:THR:OG1	2.62	0.47
11:AK:30:ARG:O	11:AK:33:GLU:CB	2.62	0.47
11:AK:44:PHE:CD1	11:AK:79:VAL:HG12	2.50	0.47
11:AK:79:VAL:C	11:AK:81:HIS:N	2.68	0.47
13:AM:32:ALA:H	13:AM:74:ILE:CG2	2.27	0.47
14:AN:84:VAL:HG23	14:AN:111:ASP:H	1.79	0.47
14:AN:18:ARG:CZ	14:AN:36:ASP:O	2.62	0.47
14:AN:32:ILE:HD13	14:AN:72:ALA:HB2	1.96	0.47
15:AO:33:ARG:CB	15:AO:85:ILE:CG2	2.90	0.47
16:AP:34:LEU:HD22	16:AP:41:PRO:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:39:ILE:HG21	16:AP:56:LEU:HD11	1.96	0.47
16:AP:99:ARG:NH1	16:AP:99:ARG:HG3	2.29	0.47
17:AQ:48:ALA:O	17:AQ:49:HIS:C	2.52	0.47
6:AF:8:ILE:HG22	17:AQ:49:HIS:O	2.14	0.47
1:AA:668:G:O2'	18:AR:46:HIS:NE2	2.34	0.47
18:AR:15:PHE:CD2	18:AR:84:LYS:HD3	2.49	0.47
1:AA:230:G:OP1	19:AS:33:ILE:HG12	2.14	0.47
1:AA:265:G:H4'	20:AT:66:SER:O	2.14	0.47
50:B2:17:LYS:C	50:B2:19:GLN:N	2.68	0.47
50:B2:17:LYS:HB2	50:B2:17:LYS:HE3	1.75	0.47
51:B3:5:ILE:HG13	51:B3:9:LEU:HA	1.96	0.47
52:B4:19:ARG:O	52:B4:21:SER:N	2.48	0.47
25:BA:2612:C:C2	52:B4:4:HIS:CG	3.02	0.47
25:BA:996:A:N6	25:BA:1160:G:C6	2.83	0.47
25:BA:120:U:C2'	25:BA:149:A:N3	2.78	0.47
25:BA:1222:C:H2'	25:BA:1223:C:O5'	2.15	0.47
25:BA:1225:C:N3	25:BA:1226:G:C2	2.83	0.47
25:BA:1227:A:C8	25:BA:1227:A:C3'	2.96	0.47
25:BA:1284:A:H2'	25:BA:1285:G:C8	2.49	0.47
25:BA:1313:U:P	25:BA:1313:U:H6	2.36	0.47
25:BA:1338:G:C2'	25:BA:1339:G:H5'	2.44	0.47
25:BA:1349:A:H5'	25:BA:1350:C:O5'	2.15	0.47
25:BA:1488:G:H2'	25:BA:1489:U:C5'	2.17	0.47
25:BA:1518:C:C3'	25:BA:1519:G:C4'	2.92	0.47
25:BA:1530:G:O3'	25:BA:1531:C:O4'	2.32	0.47
25:BA:1332:G:C4	25:BA:1609:A:N6	2.82	0.47
25:BA:1690:A:N3	25:BA:1690:A:C2'	2.77	0.47
25:BA:1812:A:H2'	25:BA:1813:G:O4'	2.15	0.47
25:BA:1816:G:O5'	28:BD:43:ARG:NH2	2.48	0.47
25:BA:1823:G:N3	25:BA:1823:G:H2'	2.29	0.47
25:BA:1822:G:C2	25:BA:1823:G:N7	2.83	0.47
25:BA:1837:C:N3	25:BA:1899:G:O6	2.48	0.47
25:BA:1844:C:H2'	25:BA:1845:G:O5'	2.15	0.47
25:BA:1914:C:N3	25:BA:1915:U:H5	2.13	0.47
25:BA:200:U:C5'	25:BA:201:C:OP2	2.62	0.47
25:BA:2060:A:OP1	30:BF:69:HIS:CA	2.63	0.47
25:BA:2178:C:O2'	27:BC:168:THR:HB	2.14	0.47
25:BA:2196:C:H2'	25:BA:2196:C:O2	2.14	0.47
25:BA:2253:G:C2'	25:BA:2254:C:O5'	2.62	0.47
25:BA:2253:G:O2'	25:BA:2254:C:P	2.72	0.47
25:BA:2301:C:N3	25:BA:2302:G:N7	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:229:A:H5'	25:BA:230:U:OP1	2.14	0.47
25:BA:2298:A:O4'	25:BA:2322:A:H1'	2.14	0.47
25:BA:2361:A:C5'	25:BA:2362:G:OP2	2.62	0.47
25:BA:2375:G:H2'	25:BA:2376:A:O5'	2.15	0.47
25:BA:2396:G:O2'	25:BA:2397:G:O5'	2.33	0.47
25:BA:2447:G:C8	25:BA:2501:C:N1	2.83	0.47
25:BA:2447:G:H1'	25:BA:2501:C:H5	1.72	0.47
25:BA:2508:G:O2'	25:BA:2509:G:H5'	2.14	0.47
25:BA:2588:G:C8	25:BA:2588:G:C3'	2.98	0.47
25:BA:1966:A:C4	25:BA:2593:U:H5'	2.49	0.47
25:BA:2627:G:C2	25:BA:2628:C:C4	3.02	0.47
25:BA:2749:A:C8	25:BA:2749:A:H3'	2.50	0.47
25:BA:2785:C:C2'	25:BA:2786:U:H6	2.21	0.47
25:BA:2794:C:C2'	25:BA:2795:G:OP1	2.60	0.47
25:BA:2828:C:HO2'	25:BA:2829:C:C5'	2.26	0.47
25:BA:2852:G:O2'	25:BA:2853:C:O5'	2.31	0.47
25:BA:2897:U:C2	25:BA:2898:U:C6	3.02	0.47
25:BA:2900:A:O2'	25:BA:2901:C:H5'	2.14	0.47
25:BA:304:G:H2'	25:BA:305:U:C6	2.50	0.47
25:BA:417:C:C2	25:BA:2407:G:O6	2.68	0.47
25:BA:526:A:H5''	25:BA:527:C:P	2.54	0.47
25:BA:573:G:H2'	25:BA:574:C:C3'	2.41	0.47
25:BA:584:C:H2'	25:BA:585:G:H5'	1.97	0.47
25:BA:602:G:H4'	25:BA:603:A:O2'	2.14	0.47
25:BA:696:G:C2'	25:BA:697:C:O5'	2.63	0.47
25:BA:716:A:C2'	25:BA:717:G:C5'	2.85	0.47
25:BA:751:A:H5''	25:BA:752:A:OP1	2.15	0.47
25:BA:774:A:H5''	25:BA:778:G:H4'	1.97	0.47
25:BA:828:U:C2'	25:BA:829:A:H8	1.91	0.47
25:BA:945:A:C2'	25:BA:946:G:O5'	2.63	0.47
26:BB:74:U:C4	26:BB:75:G:C8	3.03	0.47
27:BC:162:GLU:C	27:BC:163:PHE:CD2	2.79	0.47
27:BC:34:THR:HG23	27:BC:37:PHE:O	2.13	0.47
28:BD:177:LEU:CB	28:BD:178:PRO:HD2	2.45	0.47
28:BD:239:ARG:O	28:BD:241:PRO:HD3	2.14	0.47
28:BD:7:LYS:HE3	28:BD:91:ARG:HE	1.74	0.47
29:BE:176:ILE:HG23	29:BE:181:LEU:HB2	1.94	0.47
29:BE:4:ILE:N	29:BE:27:LEU:HD22	2.30	0.47
29:BE:58:ARG:HH11	29:BE:75:VAL:CG1	2.22	0.47
30:BF:136:THR:O	30:BF:137:LYS:C	2.52	0.47
30:BF:37:VAL:O	30:BF:184:TYR:CE1	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:18:ARG:C	30:BF:19:GLU:CG	2.74	0.47
31:BG:102:PHE:O	31:BG:103:LEU:C	2.52	0.47
31:BG:134:GLY:O	31:BG:135:LEU:O	2.33	0.47
31:BG:44:GLY:O	31:BG:47:LYS:CB	2.62	0.47
31:BG:75:LYS:HB3	31:BG:84:LYS:N	2.30	0.47
31:BG:7:LEU:HD22	31:BG:11:TYR:CE1	2.50	0.47
32:BH:97:ARG:HH11	32:BH:99:VAL:HG21	1.80	0.47
33:BK:32:PRO:O	33:BK:33:ARG:O	2.32	0.47
33:BK:2:LYS:HZ2	33:BK:44:LEU:HD21	1.78	0.47
35:BM:35:ARG:NE	35:BM:38:HIS:HB3	2.29	0.47
36:BN:68:GLU:O	36:BN:75:SER:CB	2.63	0.47
37:BO:136:GLU:CB	37:BO:137:LYS:NZ	2.77	0.47
37:BO:81:GLN:HA	37:BO:86:LYS:HZ2	1.80	0.47
38:BP:110:THR:CG2	38:BP:110:THR:O	2.62	0.47
39:BQ:11:ASN:O	39:BQ:12:ARG:HB2	2.15	0.47
39:BQ:21:TYR:HB3	39:BQ:47:PHE:CD2	2.49	0.47
25:BA:1279:G:P	39:BQ:34:ILE:HG23	2.54	0.47
40:BR:102:ALA:O	40:BR:103:GLU:C	2.52	0.47
40:BR:42:ASP:OD2	40:BR:42:ASP:C	2.52	0.47
44:BV:33:ARG:O	44:BV:37:ARG:HG2	2.14	0.47
45:BW:27:THR:HG22	45:BW:80:ILE:CG2	2.45	0.47
45:BW:30:VAL:O	45:BW:77:LYS:HG2	2.15	0.47
47:BY:152:ALA:C	47:BY:155:LEU:HD22	2.35	0.47
48:BZ:44:ARG:O	48:BZ:77:ARG:CB	2.59	0.47
33:BK:81:VAL:CB	33:BK:88:ILE:HG12	2.45	0.47
26:BB:4:C:N3	26:BB:117:G:C2	2.83	0.47
1:AA:457:C:H6	1:AA:457:C:O5'	1.97	0.47
1:AA:101:A:N3	1:AA:102:G:C8	2.82	0.47
1:AA:1057:G:H5'	6:AF:155:GLY:HA3	1.96	0.47
1:AA:1148:U:H6	12:AL:16:ARG:NH1	2.13	0.47
1:AA:1118:C:O4'	1:AA:1179:A:C1'	2.63	0.47
1:AA:1234:C:C5'	1:AA:1364:U:O2'	2.60	0.47
1:AA:1406:U:H2'	1:AA:1407:C:H5'	1.97	0.47
1:AA:1418:A:N1	1:AA:1483:A:C5	2.82	0.47
1:AA:1419:G:O2'	1:AA:1420:C:H5'	2.15	0.47
1:AA:1497:G:HO2'	1:AA:1518:A:H2	1.62	0.47
1:AA:156:G:C6	1:AA:157:G:C8	3.03	0.47
1:AA:198:G:C2	1:AA:199:G:C4	3.02	0.47
1:AA:236:G:C2'	1:AA:237:C:C6	2.85	0.47
1:AA:280:C:H1'	20:AT:38:ARG:HG3	1.97	0.47
1:AA:449:C:C2	1:AA:450:G:C1'	2.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:46:G:C4	1:AA:396:G:N1	2.83	0.47
1:AA:510:A:C8	1:AA:510:A:O5'	2.64	0.47
1:AA:515:G:C8	1:AA:516:U:C5	3.03	0.47
1:AA:590:C:H5''	11:AK:30:ARG:HG3	1.96	0.47
1:AA:790:A:C5	1:AA:791:G:C6	3.03	0.47
1:AA:771:G:C6	1:AA:809:G:C6	3.03	0.47
1:AA:961:U:H5'	1:AA:984:C:C1'	2.42	0.47
1:AA:968:A:OP1	1:AA:968:A:C8	2.65	0.47
1:AA:978:A:N6	1:AA:1318:A:N6	2.62	0.47
2:AC:18:G:C8	2:AC:18:G:O5'	2.66	0.47
3:AD:35:A:C3'	3:AD:36:A:H8	2.26	0.47
3:AD:52:G:N2	3:AD:53:G:H1'	2.29	0.47
5:AE:192:SER:C	5:AE:194:PRO:HD3	2.34	0.47
6:AF:10:PHE:HZ	6:AF:176:HIS:C	2.18	0.47
1:AA:1109:C:P	6:AF:176:HIS:CE1	3.08	0.47
6:AF:22:TRP:CZ3	6:AF:32:LEU:HD12	2.50	0.47
6:AF:84:ILE:HA	6:AF:101:LEU:CD1	2.44	0.47
7:AG:32:ALA:C	7:AG:34:GLU:N	2.66	0.47
9:AI:12:PRO:HB3	9:AI:58:GLY:CA	2.34	0.47
9:AI:33:TYR:CE1	9:AI:75:LEU:HD23	2.49	0.47
10:AJ:122:HIS:O	10:AJ:125:MET:HB2	2.15	0.47
11:AK:86:ILE:CD1	11:AK:136:GLU:OE1	2.59	0.47
11:AK:89:PRO:HB3	11:AK:92:ARG:HH21	1.78	0.47
12:AL:26:VAL:O	12:AL:32:ASP:HA	2.14	0.47
12:AL:67:GLY:N	12:AL:73:GLN:HE22	2.10	0.47
12:AL:70:LYS:O	12:AL:71:SER:C	2.53	0.47
15:AO:45:PRO:HG3	15:AO:50:SER:CA	2.30	0.47
15:AO:46:LYS:CA	15:AO:48:PRO:HD2	2.45	0.47
1:AA:952:U:C5	16:AP:104:ARG:NH1	2.83	0.47
16:AP:90:LEU:HA	16:AP:93:ARG:HB3	1.96	0.47
17:AQ:14:PRO:HB2	17:AQ:17:LYS:N	2.29	0.47
17:AQ:14:PRO:O	17:AQ:16:PHE:N	2.47	0.47
17:AQ:26:ARG:O	17:AQ:28:GLY:N	2.47	0.47
1:AA:751:U:OP1	18:AR:18:PHE:CZ	2.68	0.47
20:AT:62:SER:CB	20:AT:72:ARG:NE	2.70	0.47
1:AA:1319:A:C5'	22:AV:5:LEU:HD21	2.41	0.47
23:AW:23:ARG:O	23:AW:24:LEU:C	2.52	0.47
23:AW:57:ARG:O	23:AW:59:ALA:N	2.48	0.47
23:AW:63:ILE:O	23:AW:66:ALA:HB3	2.14	0.47
49:B1:2:ARG:O	49:B1:6:GLU:OE2	2.33	0.47
49:B1:7:GLU:CD	49:B1:7:GLU:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B1:7:GLU:OE2	49:B1:7:GLU:N	2.47	0.47
50:B2:19:GLN:HE22	50:B2:50:VAL:N	2.12	0.47
51:B3:50:VAL:O	51:B3:51:ASP:CB	2.61	0.47
51:B3:6:HIS:HB2	51:B3:56:VAL:HA	1.95	0.47
52:B4:55:ARG:HD3	52:B4:55:ARG:H	1.79	0.47
54:B6:2:LYS:O	54:B6:3:ARG:C	2.51	0.47
55:B7:15:LYS:C	55:B7:22:VAL:HG22	2.35	0.47
55:B7:16:ILE:HD12	55:B7:16:ILE:H	1.76	0.47
25:BA:253:C:H41	55:B7:7:HIS:CE1	2.33	0.47
25:BA:1005:C:C6	25:BA:1142(A):A:O3'	2.67	0.47
25:BA:1226:G:H3'	25:BA:1226:G:C8	2.50	0.47
25:BA:1233:C:O2	25:BA:1233:C:H2'	2.14	0.47
25:BA:1314:C:C4	25:BA:1315:C:N4	2.82	0.47
25:BA:1321:A:H2	25:BA:1322:A:O4'	1.96	0.47
25:BA:133:C:H2'	25:BA:134:C:H6	1.79	0.47
25:BA:1414:G:C2	25:BA:1415:U:C2	3.03	0.47
25:BA:1494:A:H5''	25:BA:1494:A:C8	2.50	0.47
25:BA:1494:A:C6	25:BA:1495:A:C8	3.03	0.47
25:BA:1625:C:C2	25:BA:1626:G:C8	3.02	0.47
25:BA:1693:U:O4	25:BA:1829:A:N1	2.47	0.47
25:BA:1710:C:O2'	25:BA:1711:C:C5'	2.62	0.47
25:BA:154:G:N1	25:BA:173:G:N1	2.61	0.47
25:BA:1781:C:H2'	25:BA:1782:C:OP2	2.14	0.47
25:BA:1789:A:H5'	28:BD:222:ARG:HG2	1.97	0.47
25:BA:1789:A:OP1	28:BD:222:ARG:CG	2.59	0.47
25:BA:1919:A:C2	25:BA:1920:C:C6	3.03	0.47
25:BA:1926:U:O2'	25:BA:1927:A:C8	2.67	0.47
25:BA:1936:A:C2	25:BA:1945:G:C8	3.03	0.47
25:BA:1964:G:HO2'	25:BA:1965:C:P	2.37	0.47
25:BA:1996:C:C5'	25:BA:1996:C:C6	2.83	0.47
25:BA:2088:G:O6	25:BA:2089:U:N3	2.48	0.47
25:BA:2258:C:C5	25:BA:2426:A:O5'	2.68	0.47
25:BA:2320:A:N3	25:BA:2333:A:C2	2.83	0.47
25:BA:2432:A:C8	25:BA:2433:A:C5	3.03	0.47
25:BA:2517:C:HO2'	25:BA:2518:A:C5'	2.24	0.47
25:BA:2520:C:N4	25:BA:2567:G:C5	2.82	0.47
25:BA:2703:C:C2'	25:BA:2704:C:O5'	2.63	0.47
25:BA:2717:G:C2	25:BA:2718:G:C5	3.03	0.47
25:BA:2797:U:C2	25:BA:2799:A:N7	2.83	0.47
25:BA:2805:G:C2'	25:BA:2807:G:H5''	2.44	0.47
25:BA:2821:A:O2'	25:BA:2822:G:C5'	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2854:G:C6	25:BA:2864:G:C6	3.02	0.47
25:BA:319:C:N3	25:BA:320:A:N7	2.63	0.47
25:BA:444:C:O3'	42:BT:2:PRO:CG	2.62	0.47
25:BA:556:G:H2'	25:BA:557:U:O5'	2.13	0.47
25:BA:67:U:O5'	25:BA:67:U:C6	2.64	0.47
25:BA:731:C:H5'	25:BA:731:C:H6	1.79	0.47
25:BA:827:U:O3'	25:BA:828:U:O2	2.33	0.47
25:BA:828:U:C6	25:BA:829:A:N7	2.82	0.47
25:BA:848:G:N2	25:BA:933:A:C4	2.83	0.47
26:BB:104:A:H2'	26:BB:105:G:O4'	2.15	0.47
26:BB:115:G:H4'	40:BR:50:SER:OG	2.14	0.47
26:BB:50:G:C5'	40:BR:61:ASN:HB3	2.44	0.47
27:BC:43:VAL:HG21	27:BC:175:VAL:HG21	1.96	0.47
27:BC:51:PRO:C	27:BC:53:ARG:N	2.67	0.47
27:BC:59:ARG:HA	27:BC:163:PHE:HB2	1.96	0.47
28:BD:165:ILE:H	28:BD:165:ILE:CD1	2.28	0.47
28:BD:7:LYS:HE2	28:BD:25:THR:HG22	1.94	0.47
28:BD:7:LYS:HG3	28:BD:27:THR:H	1.78	0.47
28:BD:80:ALA:CB	28:BD:96:HIS:ND1	2.77	0.47
29:BE:46:ALA:HB1	29:BE:85:ASN:OD1	2.14	0.47
29:BE:49:LEU:CD1	29:BE:76:ARG:O	2.58	0.47
30:BF:156:LEU:HD23	30:BF:193:VAL:HB	1.95	0.47
30:BF:161:GLU:CD	30:BF:177:ALA:HB1	2.34	0.47
30:BF:34:TRP:O	30:BF:38:ARG:HD2	2.13	0.47
25:BA:660:G:C5'	30:BF:99:TYR:CE1	2.98	0.47
31:BG:114:ILE:CD1	31:BG:115:ARG:HG3	2.44	0.47
31:BG:49:ASP:H	31:BG:53:LEU:HD13	1.79	0.47
32:BH:101:ARG:HH12	32:BH:122:THR:CG2	2.19	0.47
32:BH:40:GLU:O	32:BH:41:MET:O	2.33	0.47
35:BM:49:GLY:O	35:BM:50:ASP:HB2	2.15	0.47
35:BM:95:PRO:CA	35:BM:98:VAL:HG23	2.41	0.47
37:BO:124:LYS:HZ1	37:BO:141:ALA:CB	2.27	0.47
37:BO:76:LYS:HZ2	37:BO:96:THR:CG2	2.08	0.47
37:BO:83:VAL:O	37:BO:84:ASN:CG	2.53	0.47
38:BP:106:VAL:CG2	38:BP:107:ALA:N	2.77	0.47
38:BP:90:VAL:HB	38:BP:93:TYR:OH	2.14	0.47
39:BQ:50:HIS:O	39:BQ:51:LEU:C	2.52	0.47
40:BR:31:SER:OG	40:BR:32:LEU:N	2.47	0.47
41:BS:29:ARG:HG2	41:BS:51:ARG:HG2	1.94	0.47
41:BS:65:LYS:CA	41:BS:76:PHE:O	2.63	0.47
42:BT:92:ARG:CA	42:BT:95:LEU:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:40:LEU:HB3	43:BU:51:VAL:CG1	2.28	0.47
43:BU:52:VAL:HG12	43:BU:53:GLU:OE2	2.15	0.47
44:BV:34:ASN:ND2	44:BV:34:ASN:N	2.63	0.47
25:BA:336:C:H4'	46:BX:67:LEU:HD21	1.97	0.47
47:BY:105:VAL:HG12	47:BY:107:THR:H	1.80	0.47
47:BY:116:VAL:CA	47:BY:177:PRO:HD3	2.42	0.47
47:BY:122:ARG:NH2	47:BY:169:GLU:HB3	2.30	0.47
47:BY:18:LEU:HD22	47:BY:23:LYS:HD3	1.96	0.47
1:AA:1187:G:C6	1:AA:1188:A:C6	3.02	0.47
1:AA:1324:A:O4'	1:AA:1362:C:H4'	2.14	0.47
1:AA:318:G:HO2'	1:AA:1468:A:HO2'	1.54	0.47
1:AA:1507:A:N1	1:AA:1530:G:C8	2.82	0.47
1:AA:1517:G:N2	1:AA:1518:A:H1'	2.30	0.47
1:AA:171:A:C2'	1:AA:172:A:H5'	2.45	0.47
1:AA:196:A:O2'	1:AA:222:U:H5'	2.14	0.47
1:AA:266:G:N2	1:AA:269:C:C4	2.78	0.47
1:AA:421:U:C2	6:AF:127:ARG:CZ	2.98	0.47
1:AA:430:A:N7	1:AA:431:A:N7	2.62	0.47
1:AA:410:G:N3	1:AA:432:A:C6	2.82	0.47
1:AA:448:A:N7	1:AA:487:A:C6	2.83	0.47
1:AA:445:G:C6	1:AA:490:G:N1	2.83	0.47
1:AA:492:G:N7	1:AA:493:G:N7	2.63	0.47
1:AA:529:G:N1	15:AO:49:ASN:HB3	2.30	0.47
1:AA:582:U:O4	1:AA:583:A:N6	2.47	0.47
1:AA:596:C:O2	1:AA:597:G:C8	2.67	0.47
1:AA:647:C:H2'	1:AA:648:A:H8	1.79	0.47
1:AA:654:G:C6	1:AA:655:A:C4	3.03	0.47
1:AA:661:G:N2	1:AA:745:C:C2	2.83	0.47
1:AA:687:A:C2	1:AA:704:A:C6	3.02	0.47
1:AA:767:A:C3'	1:AA:767:A:C8	2.98	0.47
1:AA:715:A:O4'	1:AA:777:A:N6	2.48	0.47
1:AA:944:G:C3'	1:AA:945:G:C5'	2.93	0.47
1:AA:953:G:C6	1:AA:954:G:C6	3.02	0.47
1:AA:956:U:O2	1:AA:960:U:C4	2.68	0.47
1:AA:992:U:HO2'	1:AA:993:G:P	2.33	0.47
2:AC:38:A:O2'	2:AC:39:C:H5'	2.15	0.47
5:AE:118:LEU:CD2	5:AE:142:LEU:HB2	2.45	0.47
5:AE:223:ILE:HG21	5:AE:229:VAL:HA	1.96	0.47
5:AE:43:ASP:O	5:AE:47:THR:HB	2.15	0.47
5:AE:54:THR:HG23	5:AE:199:TYR:CB	2.45	0.47
5:AE:84:GLU:HG2	5:AE:234:PRO:CG	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:131:ARG:O	6:AF:132:ARG:C	2.53	0.47
6:AF:39:ILE:CG2	6:AF:57:ILE:HD13	2.45	0.47
8:AH:146:ALA:O	8:AH:149:GLU:N	2.48	0.47
8:AH:76:ILE:HG21	8:AH:142:LEU:CB	2.45	0.47
9:AI:11:ASN:CG	9:AI:12:PRO:N	2.68	0.47
9:AI:62:TRP:O	9:AI:62:TRP:CE3	2.68	0.47
10:AJ:75:VAL:N	10:AJ:145:ALA:CB	2.78	0.47
11:AK:135:CYS:SG	11:AK:136:GLU:N	2.88	0.47
11:AK:38:ILE:H	11:AK:38:ILE:CD1	2.09	0.47
11:AK:65:TYR:CD1	11:AK:65:TYR:N	2.82	0.47
12:AL:50:LEU:O	12:AL:51:ARG:C	2.53	0.47
13:AM:34:VAL:HG22	13:AM:74:ILE:CG1	2.43	0.47
13:AM:88:LEU:O	13:AM:89:ASP:O	2.33	0.47
14:AN:101:SER:OG	14:AN:103:LEU:HG	2.14	0.47
14:AN:123:LYS:CA	14:AN:126:ARG:HG3	2.45	0.47
17:AQ:14:PRO:HB2	17:AQ:17:LYS:CA	2.45	0.47
17:AQ:24:CYS:C	17:AQ:26:ARG:N	2.67	0.47
6:AF:12:LEU:HD11	17:AQ:57:ARG:CB	2.45	0.47
19:AS:71:ARG:CZ	19:AS:71:ARG:HB2	2.45	0.47
22:AV:11:VAL:HG12	22:AV:15:LEU:HD11	1.97	0.47
22:AV:18:LYS:HD3	22:AV:31:ILE:CD1	2.44	0.47
22:AV:34:TRP:O	22:AV:36:ARG:N	2.44	0.47
23:AW:23:ARG:CA	23:AW:26:ASN:OD1	2.62	0.47
23:AW:55:ILE:O	23:AW:57:ARG:N	2.48	0.47
23:AW:82:SER:O	23:AW:86:ARG:HG2	2.14	0.47
51:B3:18:CYS:N	51:B3:33:VAL:HG21	2.29	0.47
51:B3:47:GLN:OE1	51:B3:50:VAL:N	2.37	0.47
53:B5:19:ARG:HH12	53:B5:41:PRO:HG2	1.74	0.47
25:BA:180:G:OP1	54:B6:32:LYS:HE2	2.14	0.47
25:BA:1613:G:H1'	54:B6:3:ARG:CD	2.45	0.47
55:B7:53:PRO:HA	55:B7:56:GLU:OE2	2.14	0.47
55:B7:61:LEU:O	55:B7:62:LEU:CB	2.63	0.47
56:B8:10:ILE:HD11	56:B8:32:HIS:HB3	1.96	0.47
25:BA:1131:G:C1'	35:BM:82:LEU:HD11	2.44	0.47
25:BA:1180:C:OP2	25:BA:1180:C:H3'	2.15	0.47
25:BA:1224:G:OP1	25:BA:1224:G:C8	2.68	0.47
25:BA:1196:C:O4'	25:BA:1226:G:N3	2.48	0.47
25:BA:1248:G:H22	30:BF:52:LYS:NZ	2.13	0.47
25:BA:1259:G:C4	25:BA:1260:G:C8	3.03	0.47
25:BA:1366:A:H2	25:BA:1367:A:C1'	2.27	0.47
25:BA:1446:C:H2'	25:BA:1447:G:C8	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1530:G:N2	25:BA:1541:U:O2'	2.48	0.47
25:BA:1498:C:C6	25:BA:1576:U:O4'	2.66	0.47
25:BA:1417:C:N3	25:BA:1582:C:O2	2.47	0.47
25:BA:1669:A:N6	25:BA:1994:C:O2	2.48	0.47
25:BA:1697:G:O6	25:BA:1698:A:N1	2.47	0.47
25:BA:1775:U:O4	25:BA:1776:G:N7	2.48	0.47
25:BA:1996:C:N3	25:BA:1997:G:C1'	2.78	0.47
25:BA:2020:A:C2	25:BA:2035:G:C6	3.03	0.47
25:BA:2110:G:C5	25:BA:2120:G:C8	3.03	0.47
25:BA:2146:C:H2'	25:BA:2147:G:O4'	2.15	0.47
25:BA:2252:G:H2'	25:BA:2253:G:C8	2.49	0.47
25:BA:230:U:HO2'	25:BA:231:C:C5'	2.28	0.47
25:BA:2395:C:H2'	25:BA:2396:G:O4'	2.15	0.47
25:BA:241:A:C8	25:BA:243:U:N3	2.83	0.47
25:BA:2470:G:C2	25:BA:2471:C:C4	3.02	0.47
25:BA:2470:G:C2	25:BA:2471:C:C5	3.03	0.47
25:BA:2505:G:N2	25:BA:2610:C:H5	2.13	0.47
25:BA:251:A:C2'	25:BA:252:G:O5'	2.62	0.47
25:BA:247:G:N1	25:BA:252:G:O6	2.47	0.47
25:BA:2791:C:C6	25:BA:2893:G:O6	2.67	0.47
25:BA:2818:G:H4'	25:BA:2837:G:H4'	1.97	0.47
25:BA:2848:G:H3'	41:BS:99:LEU:HD11	1.97	0.47
25:BA:2867:G:H4'	25:BA:2868:A:H8	1.80	0.47
25:BA:306:U:C5	25:BA:307:G:C4	3.02	0.47
25:BA:422:A:H2'	25:BA:423:A:O5'	2.15	0.47
25:BA:498:G:H3'	25:BA:498:G:C8	2.48	0.47
25:BA:547:A:C6	25:BA:548:A:C6	3.02	0.47
25:BA:544:C:N4	25:BA:550:G:N1	2.62	0.47
25:BA:558:G:O2'	25:BA:559:G:H5''	2.14	0.47
25:BA:60:G:O2'	25:BA:61:G:OP1	2.31	0.47
25:BA:64:A:C5'	45:BW:73:ARG:HA	2.45	0.47
25:BA:662:G:C5'	37:BO:16:ARG:HG2	2.45	0.47
25:BA:776:G:N7	25:BA:793:A:H3'	2.29	0.47
25:BA:905:U:C4	25:BA:906:G:C8	3.03	0.47
25:BA:922:U:O2'	48:BZ:26:TYR:CD2	2.68	0.47
25:BA:979:G:H8	25:BA:979:G:H3'	1.79	0.47
28:BD:181:GLU:OE2	28:BD:271:ILE:C	2.53	0.47
29:BE:142:GLY:O	29:BE:143:ASN:HB3	2.15	0.47
29:BE:91:VAL:CG2	29:BE:180:ASN:ND2	2.78	0.47
29:BE:44:TYR:HB3	29:BE:82:ARG:NH1	2.30	0.47
29:BE:85:ASN:ND2	29:BE:85:ASN:N	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:9:ARG:O	31:BG:13:GLU:HG3	2.14	0.47
32:BH:105:LEU:HB2	32:BH:113:VAL:CG1	2.44	0.47
32:BH:149:ARG:HG2	32:BH:153:LYS:HE3	1.97	0.47
25:BA:1112:G:P	32:BH:4:ILE:HG12	2.54	0.47
32:BH:44:VAL:HG12	32:BH:51:ARG:HB3	1.96	0.47
32:BH:35:VAL:CG1	32:BH:71:LEU:HD23	2.44	0.47
32:BH:84:SER:HA	32:BH:135:GLY:H	1.79	0.47
33:BK:37:VAL:HG12	33:BK:43:ASN:OD1	2.14	0.47
35:BM:69:GLN:HE22	35:BM:70:LYS:HZ2	1.62	0.47
35:BM:97:ARG:O	35:BM:98:VAL:C	2.53	0.47
36:BN:114:ILE:HG22	36:BN:115:VAL:H	1.80	0.47
37:BO:46:LYS:CD	37:BO:46:LYS:H	2.25	0.47
37:BO:57:THR:C	55:B7:13:ARG:NH1	2.68	0.47
38:BP:6:ARG:NH2	38:BP:8:LYS:H	2.13	0.47
40:BR:11:LYS:O	40:BR:14:VAL:CB	2.63	0.47
36:BN:77:ILE:CG1	41:BS:75:ILE:HD12	2.44	0.47
42:BT:40:PHE:HB3	43:BU:78:LYS:HZ3	1.76	0.47
42:BT:57:PHE:N	42:BT:57:PHE:CD1	2.83	0.47
25:BA:997:G:C3'	42:BT:92:ARG:NH1	2.78	0.47
42:BT:94:ASN:O	42:BT:95:LEU:C	2.47	0.47
44:BV:21:VAL:HG13	44:BV:22:ASP:N	2.30	0.47
45:BW:50:LYS:HZ3	45:BW:87:GLN:HG2	1.80	0.47
46:BX:95:LYS:CG	46:BX:96:ILE:N	2.78	0.47
47:BY:145:GLU:O	47:BY:174:VAL:HG23	2.14	0.47
47:BY:171:ILE:O	47:BY:172:ALA:HB2	2.15	0.47
47:BY:71:VAL:HG13	47:BY:87:ASP:O	2.15	0.47
48:BZ:39:ARG:HG2	48:BZ:58:THR:HG23	1.95	0.47
33:BK:118:LYS:O	33:BK:119:PRO:C	2.51	0.47
33:BK:123:LEU:HD11	33:BK:145:VAL:C	2.35	0.47
33:BK:88:ILE:CG2	33:BK:89:TYR:N	2.78	0.47
25:BA:1069:A:N7	25:BA:1073:A:C8	2.82	0.47
34:BL:112:MET:O	34:BL:113:PRO:O	2.33	0.47
34:BL:18:THR:HA	34:BL:38:VAL:CG2	2.42	0.47
34:BL:55:VAL:HG22	34:BL:69:THR:HG22	1.96	0.47
25:BA:1084:A:H3'	25:BA:1085:A:H5'	1.97	0.47
25:BA:1084:A:N7	25:BA:1085:A:C2	2.82	0.47
34:BL:131:ALA:C	34:BL:136:VAL:O	2.53	0.47
34:BL:13:PRO:O	34:BL:16:LYS:HB2	2.15	0.47
34:BL:23:VAL:HG21	34:BL:41:PHE:HE1	1.80	0.47
34:BL:41:PHE:CZ	34:BL:57:ILE:CD1	2.96	0.47
1:AA:1003:G:OP2	1:AA:1003:G:C8	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1006:C:O2	1:AA:1006:C:C2'	2.62	0.47
1:AA:1033:G:C2	1:AA:1034:G:C5	3.03	0.47
1:AA:842:C:H4'	1:AA:848:C:N3	2.30	0.47
26:BB:0:A:C5'	26:BB:0:A:N3	2.78	0.47
1:AA:748:C:HO2'	1:AA:749:C:H6	1.56	0.47
4:A1:11:U:OP1	14:AN:127:LYS:O	2.33	0.47
25:BA:2295:C:O2	25:BA:2295:C:H2'	2.15	0.47
4:A1:6:G:N3	4:A1:6:G:H2'	2.29	0.47
1:AA:615:C:O2'	1:AA:616:G:H5'	2.15	0.47
1:AA:931:C:O2	1:AA:931:C:H2'	2.14	0.47
1:AA:1082:G:C5	1:AA:1083:U:C5	3.03	0.47
1:AA:1178:G:N9	1:AA:1180:A:OP2	2.48	0.47
1:AA:1050:G:OP1	1:AA:1215:G:OP1	2.33	0.47
1:AA:1242:C:O2'	1:AA:1303:C:H5''	2.15	0.47
1:AA:130:A:H5''	1:AA:190:G:C4	2.49	0.47
1:AA:1314:C:H2'	1:AA:1315:U:H5	1.79	0.47
1:AA:1316:G:H5''	17:AQ:17:LYS:CD	2.44	0.47
1:AA:1326:C:C2	1:AA:1327:C:C5	3.02	0.47
1:AA:142:G:N1	1:AA:143:A:C5	2.83	0.47
1:AA:1464:G:N3	1:AA:1465:C:C5	2.82	0.47
1:AA:1480:G:C2'	1:AA:1481:U:C5'	2.90	0.47
1:AA:1520:G:O2'	1:AA:1521:G:C5'	2.63	0.47
1:AA:194:C:H5''	23:AW:65:LYS:NZ	2.29	0.47
1:AA:390:C:C6	1:AA:390:C:H3'	2.49	0.47
1:AA:394:G:C5	1:AA:395:C:C4	3.02	0.47
1:AA:695:A:H2'	1:AA:696:A:C8	2.50	0.47
1:AA:796:C:OP1	14:AN:123:LYS:HD3	2.14	0.47
1:AA:9:G:C8	8:AH:126:ARG:NH1	2.83	0.47
1:AA:1104:G:H4'	5:AE:111:ARG:HE	1.80	0.47
5:AE:52:GLU:CD	5:AE:53:ARG:N	2.69	0.47
6:AF:142:MET:CG	6:AF:143:GLU:N	2.78	0.47
6:AF:175:LEU:HA	6:AF:182:ILE:HD12	1.97	0.47
6:AF:46:GLU:HB3	6:AF:47:LEU:CD2	2.43	0.47
7:AG:128:VAL:CG1	7:AG:129:ASN:N	2.78	0.47
7:AG:191:ARG:O	7:AG:191:ARG:NE	2.48	0.47
7:AG:25:ARG:NH2	7:AG:30:LYS:HD3	2.30	0.47
8:AH:141:GLN:O	8:AH:142:LEU:CB	2.63	0.47
8:AH:145:LYS:O	8:AH:148:VAL:HG23	2.15	0.47
8:AH:69:VAL:O	8:AH:71:LEU:N	2.39	0.47
10:AJ:43:PHE:O	10:AJ:46:ALA:HB3	2.14	0.47
11:AK:39:LEU:CB	11:AK:45:ILE:HG21	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:5:ARG:NE	13:AM:73:ASP:OD1	2.44	0.47
14:AN:123:LYS:HA	14:AN:126:ARG:HG3	1.97	0.47
14:AN:43:SER:OG	14:AN:47:VAL:HG11	2.14	0.47
14:AN:45:GLY:O	14:AN:55:LYS:HB3	2.15	0.47
15:AO:9:GLN:O	15:AO:10:LEU:C	2.52	0.47
1:AA:363:A:OP2	15:AO:34:ARG:CZ	2.63	0.47
16:AP:3:ARG:NE	31:BG:113:ARG:HG2	2.30	0.47
17:AQ:40:CYS:HB2	17:AQ:42:ILE:CG1	2.44	0.47
17:AQ:59:ALA:HB1	17:AQ:61:TRP:CZ3	2.49	0.47
18:AR:32:LEU:HB3	18:AR:63:ARG:HB3	1.97	0.47
18:AR:5:LYS:HG3	18:AR:6:GLU:OE2	2.14	0.47
18:AR:78:TYR:O	18:AR:79:ARG:C	2.52	0.47
20:AT:91:ARG:HB3	20:AT:91:ARG:HE	1.46	0.47
21:AU:52:PRO:O	21:AU:53:ARG:C	2.52	0.47
21:AU:53:ARG:HH22	21:AU:60:GLY:N	2.11	0.47
21:AU:53:ARG:HH12	21:AU:60:GLY:HA2	1.80	0.47
23:AW:22:ARG:O	23:AW:23:ARG:C	2.53	0.47
1:AA:195:A:H4'	23:AW:68:LYS:HZ2	1.79	0.47
49:B1:51:GLN:O	49:B1:55:LEU:CD1	2.63	0.47
50:B2:31:LEU:HD12	50:B2:32:GLN:HE22	1.79	0.47
52:B4:19:ARG:C	52:B4:21:SER:N	2.68	0.47
52:B4:4:HIS:HB3	52:B4:5:PRO:CD	2.45	0.47
53:B5:10:LEU:HG	53:B5:28:ARG:HE	1.80	0.47
53:B5:17:LYS:HG2	53:B5:19:ARG:HE	1.80	0.47
55:B7:16:ILE:CD1	55:B7:22:VAL:HG22	2.44	0.47
25:BA:1005:C:H5'	25:BA:1012:U:O2'	2.15	0.47
25:BA:1044:G:C2	25:BA:1111:A:O2'	2.63	0.47
25:BA:1027:A:N6	25:BA:1126:A:H1'	2.29	0.47
25:BA:1210:A:C5'	25:BA:1211:U:O5'	2.63	0.47
25:BA:1195:G:C2'	25:BA:1226:G:N2	2.78	0.47
25:BA:1243:G:N2	25:BA:1244:G:N3	2.63	0.47
25:BA:125:G:N2	54:B6:10:ARG:CA	2.70	0.47
25:BA:1264:G:H5''	25:BA:1265:A:C3'	2.45	0.47
25:BA:1341:U:H2'	45:BW:55:ASN:HB3	1.97	0.47
25:BA:1471:A:N3	25:BA:1471:A:H2'	2.29	0.47
25:BA:1488:G:C2	25:BA:1489:U:H1'	2.50	0.47
25:BA:1538:G:C2	25:BA:1539:G:N3	2.83	0.47
25:BA:1447:G:H1'	25:BA:1545(A):A:O4'	2.13	0.47
25:BA:1552:G:C4'	25:BA:1553:A:OP1	2.63	0.47
25:BA:1579:A:N6	25:BA:1581:G:H22	2.05	0.47
25:BA:1660:C:H4'	25:BA:2712(A):A:H62	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1749:A:O2'	25:BA:1750:G:H5'	2.14	0.47
25:BA:1769:G:C4	25:BA:1770:G:N7	2.83	0.47
25:BA:1831:G:C6	25:BA:1832:C:C4	3.03	0.47
25:BA:1884:A:H3'	25:BA:1884:A:C8	2.50	0.47
25:BA:1886:C:C2	25:BA:1887:C:C5	3.02	0.47
25:BA:199:A:N1	25:BA:2433:A:O2'	2.37	0.47
25:BA:2018:G:O6	25:BA:2035:G:O6	2.32	0.47
25:BA:2026:C:C2	25:BA:2027:G:C8	3.03	0.47
25:BA:203:C:C5	25:BA:204:A:C5	3.03	0.47
25:BA:2215:G:O5'	25:BA:2215:G:C8	2.68	0.47
25:BA:2218:G:C6	25:BA:2219:G:N7	2.83	0.47
25:BA:2236:C:C6	25:BA:2236:C:C5'	2.92	0.47
25:BA:2312:U:OP1	31:BG:86:MET:CG	2.50	0.47
25:BA:2326:C:N4	25:BA:2389:G:H1	2.13	0.47
25:BA:2404:C:C4	25:BA:2414:G:C2	3.02	0.47
25:BA:2423:U:H5'	25:BA:2423:U:C6	2.50	0.47
25:BA:2522:U:H2'	25:BA:2543:G:H22	1.78	0.47
25:BA:2544:G:C6	25:BA:2545:G:C5	3.02	0.47
25:BA:2605:U:H2'	25:BA:2606:C:C5	2.50	0.47
25:BA:270(B):A:C2'	25:BA:270(C):C:H6	2.27	0.47
25:BA:2749:A:H8	25:BA:2749:A:H3'	1.79	0.47
25:BA:284:U:H6	25:BA:284:U:OP2	1.97	0.47
25:BA:408:G:H2'	25:BA:409:C:C5'	2.44	0.47
25:BA:519:U:H2'	25:BA:520:G:O5'	2.14	0.47
25:BA:598:G:C2'	25:BA:599:G:O5'	2.63	0.47
25:BA:628:G:P	25:BA:628:G:H8	2.38	0.47
25:BA:681:G:H2'	25:BA:682:G:H8	1.80	0.47
25:BA:728:G:N3	25:BA:763:G:P	2.88	0.47
25:BA:819:A:C5	25:BA:1189:A:C2	3.03	0.47
25:BA:862:G:C2	25:BA:863:A:H1'	2.49	0.47
25:BA:84:A:N7	25:BA:99:U:O2	2.47	0.47
27:BC:61:THR:HG21	27:BC:160:ARG:NH2	2.30	0.47
27:BC:189:ILE:HD11	27:BC:214:VAL:HG21	1.97	0.47
27:BC:20:TYR:CZ	27:BC:222:VAL:HG22	2.50	0.47
27:BC:22:ILE:HG22	27:BC:186:ALA:HA	1.96	0.47
27:BC:58:VAL:CG1	27:BC:199:HIS:HB3	2.45	0.47
28:BD:131:LEU:HA	28:BD:131:LEU:HD12	1.56	0.47
28:BD:131:LEU:CG	28:BD:132:PRO:HD2	2.44	0.47
28:BD:181:GLU:HG2	28:BD:268:ARG:HE	1.76	0.47
28:BD:258:LYS:CG	28:BD:259:THR:N	2.66	0.47
30:BF:137:LYS:NZ	30:BF:140:LEU:HB3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:35:GLU:HA	30:BF:38:ARG:HH21	1.80	0.47
31:BG:117:PHE:CZ	31:BG:135:LEU:HG	2.50	0.47
32:BH:19:VAL:HG11	32:BH:42:ARG:NH1	2.30	0.47
32:BH:97:ARG:HH11	32:BH:99:VAL:CG2	2.27	0.47
33:BK:45:LYS:NZ	33:BK:48:GLU:CB	2.76	0.47
25:BA:1139:G:C5	35:BM:65:LYS:HE2	2.48	0.47
25:BA:2562:U:O2'	36:BN:23:ARG:NH2	2.48	0.47
38:BP:67:ARG:CD	38:BP:103:MET:HB3	2.44	0.47
38:BP:115:MET:HA	38:BP:118:LEU:HD11	1.97	0.47
38:BP:11:LYS:CG	38:BP:12:GLN:N	2.78	0.47
39:BQ:77:ARG:CB	39:BQ:77:ARG:CZ	2.86	0.47
40:BR:106:ARG:C	40:BR:106:ARG:HH11	2.17	0.47
40:BR:41:ASP:CG	40:BR:46:VAL:HG23	2.34	0.47
26:BB:114:G:H4'	40:BR:47:THR:CG2	2.45	0.47
25:BA:2376:A:N6	40:BR:94:TYR:CZ	2.82	0.47
29:BE:183:LEU:CD2	41:BS:10:VAL:HG11	2.44	0.47
42:BT:15:LYS:CG	42:BT:18:LEU:HD11	2.44	0.47
42:BT:25:TRP:HB2	42:BT:28:ARG:NH1	2.30	0.47
42:BT:8:VAL:O	42:BT:12:ARG:HG3	2.14	0.47
44:BV:18:ARG:HD3	44:BV:76:VAL:HG12	1.95	0.47
44:BV:29:LEU:O	44:BV:30:GLU:C	2.51	0.47
44:BV:2:GLU:O	44:BV:4:LYS:HE2	2.15	0.47
44:BV:42:ARG:HG3	44:BV:43:GLY:N	2.28	0.47
46:BX:12:THR:O	46:BX:22:GLY:CA	2.60	0.47
46:BX:13:VAL:HG12	46:BX:73:ARG:HE	1.79	0.47
47:BY:130:PRO:O	47:BY:131:ARG:C	2.52	0.47
47:BY:79:ARG:C	47:BY:80:ARG:HD2	2.36	0.47
33:BK:91:SER:CB	33:BK:119:PRO:HB2	2.41	0.47
25:BA:1069:A:H5''	25:BA:1070:A:OP1	2.15	0.47
25:BA:1081:U:H5''	34:BL:122:ALA:CB	2.45	0.47
10:AJ:129:GLU:OE1	10:AJ:131:LYS:CG	2.63	0.47
1:AA:89:U:O5'	1:AA:89:U:H6	1.95	0.47
1:AA:996:A:N1	1:AA:997:U:C4	2.83	0.47
25:BA:57:C:C6	25:BA:57:C:O5'	2.67	0.47
1:AA:1082:G:C6	1:AA:1083:U:C4	3.02	0.47
1:AA:1174:G:C2'	1:AA:1175:G:H5'	2.45	0.47
1:AA:1328:C:OP1	16:AP:28:ALA:HB2	2.15	0.47
1:AA:1343:G:N2	1:AA:1344:C:O2	2.48	0.47
1:AA:976:G:C4	1:AA:1363:A:N6	2.83	0.47
1:AA:137:C:H6	1:AA:137:C:O5'	1.97	0.47
1:AA:1502:A:H2'	1:AA:1502:A:N3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1516:G:C2	1:AA:1518:A:OP2	2.67	0.47
1:AA:197:A:O2'	1:AA:198:G:P	2.72	0.47
1:AA:246:A:N3	1:AA:282:A:C6	2.82	0.47
1:AA:424:G:N3	1:AA:425:G:C8	2.83	0.47
1:AA:547:A:H1'	1:AA:548:G:O4'	2.14	0.47
1:AA:682:G:C6	1:AA:709:G:O6	2.67	0.47
1:AA:769:G:C2	1:AA:770:C:C5	3.02	0.47
1:AA:778:G:C4	1:AA:779:C:C5	3.03	0.47
1:AA:814:A:C8	1:AA:816:A:C5	3.03	0.47
1:AA:836:G:C5	1:AA:851:G:N1	2.83	0.47
1:AA:853:G:H2'	1:AA:854:G:O4'	2.14	0.47
1:AA:864:A:N6	1:AA:865:A:N1	2.63	0.47
1:AA:979:C:C2'	1:AA:980:C:H5'	2.44	0.47
3:AD:32:C:H1'	10:AJ:86:GLN:HE22	1.79	0.47
3:AD:56:C:H5'	27:BC:133:PRO:O	2.15	0.47
5:AE:209:ARG:NH1	5:AE:213:LEU:CD1	2.78	0.47
5:AE:46:LYS:HA	5:AE:49:GLU:CD	2.35	0.47
5:AE:97:TRP:HH2	5:AE:176:GLU:CG	2.27	0.47
6:AF:134:ILE:HG23	6:AF:151:VAL:HG12	1.97	0.47
7:AG:15:GLU:OE2	7:AG:63:LYS:CB	2.62	0.47
7:AG:187:ARG:HE	7:AG:188:LEU:CG	2.28	0.47
7:AG:22:LYS:CD	7:AG:26:CYS:HB2	2.45	0.47
7:AG:73:ARG:C	7:AG:75:PHE:N	2.64	0.47
8:AH:84:PHE:CB	8:AH:134:ALA:HB2	2.45	0.47
9:AI:11:ASN:OD1	9:AI:14:LEU:N	2.48	0.47
9:AI:47:ARG:HG2	9:AI:57:GLN:CG	2.44	0.47
10:AJ:78:ARG:N	10:AJ:156:TRP:HH2	2.13	0.47
11:AK:46:LYS:HG3	11:AK:64:LYS:HB2	1.96	0.47
11:AK:44:PHE:HD1	11:AK:79:VAL:HG12	1.80	0.47
11:AK:88:LYS:CB	11:AK:88:LYS:NZ	2.78	0.47
14:AN:34:ASP:CB	14:AN:35:PRO:CD	2.93	0.47
1:AA:686:U:O2	14:AN:42:TRP:HZ2	1.98	0.47
15:AO:122:THR:HG22	15:AO:123:LYS:O	2.15	0.47
16:AP:64:TRP:HB3	16:AP:66:LEU:CD2	2.44	0.47
16:AP:64:TRP:HD1	16:AP:66:LEU:HD22	1.77	0.47
17:AQ:10:ALA:C	17:AQ:12:ARG:H	2.15	0.47
17:AQ:45:ARG:NH1	17:AQ:45:ARG:CG	2.73	0.47
1:AA:1187:G:H1'	17:AQ:61:TRP:C	2.35	0.47
19:AS:39:TYR:CZ	19:AS:41:PRO:HG3	2.49	0.47
20:AT:70:ARG:O	20:AT:71:PHE:HD1	1.97	0.47
20:AT:86:GLU:CD	20:AT:89:LEU:HD12	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:18:ARG:NH2	21:AU:21:LYS:CD	2.71	0.47
23:AW:88:VAL:C	23:AW:92:LEU:HD12	2.35	0.47
54:B6:43:THR:C	54:B6:45:ALA:N	2.68	0.47
25:BA:71:A:N6	25:BA:114:U:H1'	2.17	0.47
25:BA:1158:C:H4'	50:B2:32:GLN:CD	2.36	0.47
25:BA:443:A:C5'	25:BA:1201:C:H5'	2.45	0.47
25:BA:1301:A:C6	25:BA:1303:G:H1'	2.50	0.47
25:BA:1317:A:C5	25:BA:1318:C:C4	3.03	0.47
25:BA:1327:C:H3'	25:BA:1328:G:N7	2.30	0.47
25:BA:1449(A):G:C2	25:BA:1450:C:C2	3.03	0.47
25:BA:1494:A:H2'	25:BA:1494:A:N3	2.30	0.47
25:BA:1519:G:N3	25:BA:1519:G:H2'	2.29	0.47
25:BA:1525:G:H2'	25:BA:1526:G:O5'	2.15	0.47
25:BA:1682:G:C2	25:BA:1683:C:C2	3.03	0.47
25:BA:1364:G:P	25:BA:1809:A:N6	2.88	0.47
25:BA:1906:G:C1'	25:BA:1929:G:C8	2.98	0.47
25:BA:1906:G:C5	25:BA:1907:G:N7	2.83	0.47
25:BA:1906:G:O4'	25:BA:1929:G:C8	2.68	0.47
25:BA:1917:U:C6	25:BA:1918:A:C8	3.02	0.47
1:AA:1517:G:C5	25:BA:1920:C:H5''	2.50	0.47
25:BA:1973:G:C6	25:BA:1974:C:N4	2.83	0.47
25:BA:2047:U:O2'	25:BA:2048:G:O5'	2.33	0.47
25:BA:2181:G:C2	25:BA:2182:G:C5	3.03	0.47
25:BA:2238:G:C2'	25:BA:2239:G:OP2	2.62	0.47
25:BA:2253:G:HO2'	25:BA:2254:C:P	2.37	0.47
25:BA:2306:C:OP1	31:BG:136:ARG:NH1	2.48	0.47
25:BA:2385:C:N3	25:BA:2386:C:C6	2.83	0.47
25:BA:2432:A:C4	25:BA:2433:A:N7	2.83	0.47
25:BA:245:G:C5	25:BA:246:C:H5	2.32	0.47
25:BA:2641:G:C5'	35:BM:75:TYR:HB2	2.44	0.47
25:BA:2681:C:OP1	29:BE:192:ASN:OD1	2.33	0.47
25:BA:2705:A:HO2'	25:BA:2706:G:P	2.37	0.47
25:BA:269:U:H5''	25:BA:270(Y):G:H2'	1.96	0.47
25:BA:2744:G:C2'	25:BA:2745:C:H5'	2.45	0.47
25:BA:2771:C:C2	25:BA:2772:C:C5	3.03	0.47
25:BA:2830:G:N2	25:BA:2831:G:H1'	2.30	0.47
25:BA:2897:U:H2'	25:BA:2898:U:C6	2.50	0.47
25:BA:427:U:H2'	25:BA:428:A:OP2	2.14	0.47
25:BA:485:C:H2'	25:BA:486:C:H6	1.79	0.47
25:BA:505:A:H3'	25:BA:505:A:C8	2.50	0.47
25:BA:545:G:H1'	25:BA:549:G:C2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:586:A:N6	25:BA:809:G:O2'	2.46	0.47
25:BA:678:C:C2'	25:BA:679:C:H5'	2.45	0.47
25:BA:833:U:H1'	37:BO:48:PRO:HB2	1.96	0.47
25:BA:915:C:O2'	25:BA:916:G:H5'	2.15	0.47
25:BA:960:A:H2'	25:BA:962:G:C8	2.42	0.47
25:BA:974:G:H3'	25:BA:974(A):C:C4'	2.45	0.47
27:BC:171:ILE:HD13	27:BC:192:PHE:CE1	2.50	0.47
27:BC:63:SER:OG	27:BC:160:ARG:NH1	2.42	0.47
28:BD:223:GLY:C	28:BD:225:ALA:N	2.61	0.47
28:BD:246:PRO:HD2	28:BD:250:TRP:C	2.35	0.47
28:BD:65:ILE:HB	28:BD:67:PHE:HE2	1.79	0.47
29:BE:178:GLU:N	29:BE:178:GLU:CD	2.68	0.47
29:BE:62:PRO:O	29:BE:65:GLY:N	2.47	0.47
30:BF:160:ASN:OD1	30:BF:160:ASN:O	2.32	0.47
30:BF:41:LEU:C	30:BF:44:ARG:HG2	2.33	0.47
30:BF:6:VAL:CB	30:BF:18:ARG:HD3	2.45	0.47
31:BG:105:LYS:HA	31:BG:109:VAL:CG2	2.45	0.47
31:BG:114:ILE:HD12	31:BG:115:ARG:N	2.29	0.47
31:BG:180:PHE:O	31:BG:181:ARG:O	2.33	0.47
31:BG:26:GLN:HG2	31:BG:29:TRP:CZ3	2.50	0.47
32:BH:11:VAL:O	32:BH:11:VAL:HG12	2.12	0.47
32:BH:151:ILE:O	32:BH:152:ARG:HB3	2.15	0.47
33:BK:31:LEU:HD13	33:BK:36:ALA:C	2.35	0.47
33:BK:48:GLU:OE1	33:BK:48:GLU:N	2.47	0.47
35:BM:62:VAL:CG1	35:BM:65:LYS:HB2	2.45	0.47
36:BN:10:VAL:CG1	36:BN:11:ALA:N	2.54	0.47
36:BN:2:ILE:C	36:BN:3:GLN:CD	2.73	0.47
36:BN:78:ARG:HH11	36:BN:78:ARG:HG2	1.79	0.47
36:BN:7:TYR:CB	36:BN:18:LYS:NZ	2.78	0.47
36:BN:86:ILE:HG23	36:BN:90:GLN:O	2.14	0.47
38:BP:75:THR:HG21	38:BP:88:GLY:O	2.15	0.47
38:BP:77:LYS:CE	38:BP:87:LYS:HZ2	2.27	0.47
40:BR:17:ARG:O	40:BR:20:ARG:CB	2.62	0.47
41:BS:51:ARG:C	41:BS:66:VAL:HG12	2.35	0.47
41:BS:68:TYR:CD1	41:BS:68:TYR:C	2.88	0.47
36:BN:77:ILE:O	41:BS:75:ILE:HD12	2.15	0.47
25:BA:1753:G:O2'	41:BS:98:LYS:NZ	2.48	0.47
42:BT:82:GLY:HA2	42:BT:117:GLN:HE21	1.80	0.47
42:BT:56:ASP:O	42:BT:59:ARG:HB2	2.15	0.47
42:BT:90:VAL:O	42:BT:91:ASP:HB2	2.14	0.47
43:BU:18:LEU:HD23	43:BU:18:LEU:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:3:ALA:C	43:BU:44:LYS:HZ1	2.17	0.47
44:BV:8:ARG:CZ	44:BV:102:HIS:CE1	2.98	0.47
45:BW:73:ARG:HG2	45:BW:74:PRO:CD	2.33	0.47
46:BX:76:CYS:HB2	46:BX:100:ALA:H	1.79	0.47
46:BX:72:VAL:HG23	46:BX:81:LYS:HE2	1.96	0.47
46:BX:95:LYS:HG3	46:BX:103:GLY:HA2	1.93	0.47
47:BY:152:ALA:HA	47:BY:155:LEU:CD2	2.45	0.47
25:BA:1053:C:C6	25:BA:1054:A:N7	2.83	0.47
25:BA:1071:G:H3'	25:BA:1072:C:H5'	1.95	0.47
1:AA:1004:A:H3'	1:AA:1025:U:N3	2.30	0.47
25:BA:1574:C:C5	25:BA:1575:C:C5	3.03	0.47
4:A1:22:A:C2'	4:A1:23:A:H5'	2.45	0.47
1:AA:1202:G:C8	17:AQ:42:ILE:CD1	2.98	0.47
1:AA:1307:U:C4	1:AA:1308:U:C5	3.03	0.47
1:AA:160:A:N6	1:AA:161:A:C2	2.83	0.47
1:AA:197:A:N6	1:AA:220:G:C2'	2.78	0.47
1:AA:270:A:H2'	1:AA:271:C:H6	1.80	0.47
1:AA:344:A:O2'	1:AA:345:C:OP1	2.27	0.47
1:AA:449:C:C2'	1:AA:450:G:O4'	2.49	0.47
1:AA:491:G:O2'	1:AA:492:G:H5'	2.15	0.47
1:AA:519:C:H5'	15:AO:51:ALA:CB	2.45	0.47
1:AA:6:G:O2'	1:AA:298:A:H1'	2.14	0.47
1:AA:752:G:OP2	1:AA:752:G:H8	1.98	0.47
1:AA:754:C:H1'	18:AR:69:TYR:CG	2.50	0.47
1:AA:758:G:C2'	1:AA:759:A:OP2	2.62	0.47
1:AA:887:G:C6	1:AA:888:G:C5	3.02	0.47
1:AA:891:U:C5	1:AA:892:A:N7	2.83	0.47
1:AA:895:G:H2'	1:AA:896:C:H6	1.80	0.47
1:AA:951:G:N2	1:AA:952:U:C2	2.82	0.47
1:AA:981:U:H3'	1:AA:981:U:C6	2.50	0.47
1:AA:981:U:N3	1:AA:982:U:C4	2.83	0.47
2:AC:10:G:N3	2:AC:11:A:C8	2.83	0.47
2:AC:70:G:N2	2:AC:71:C:N1	2.63	0.47
3:AD:32:C:O2'	10:AJ:84:ASN:ND2	2.47	0.47
5:AE:102:LEU:CD2	5:AE:176:GLU:HB3	2.45	0.47
5:AE:176:GLU:O	5:AE:180:LEU:CG	2.63	0.47
6:AF:172:ARG:CB	6:AF:172:ARG:CZ	2.93	0.47
6:AF:66:VAL:O	6:AF:102:ASN:CB	2.52	0.47
7:AG:15:GLU:OE1	7:AG:59:ARG:NH2	2.46	0.47
8:AH:37:ARG:NH2	8:AH:112:LEU:HD22	2.30	0.47
8:AH:48:ALA:HB1	8:AH:53:LEU:CB	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:76:ILE:HG22	8:AH:142:LEU:HD22	1.97	0.47
9:AI:12:PRO:CG	9:AI:13:ASN:HD22	2.28	0.47
9:AI:45:LEU:O	9:AI:46:ARG:CB	2.63	0.47
9:AI:4:TYR:HD2	9:AI:4:TYR:N	2.13	0.47
9:AI:6:VAL:HG22	9:AI:8:ILE:CG1	2.44	0.47
11:AK:112:LEU:HD21	11:AK:114:THR:HG23	1.96	0.47
11:AK:49:GLU:OE1	11:AK:49:GLU:C	2.53	0.47
12:AL:69:GLY:CA	12:AL:73:GLN:OE1	2.63	0.47
14:AN:128:ALA:O	14:AN:129:SER:CB	2.61	0.47
16:AP:29:ARG:NH1	16:AP:64:TRP:CD1	2.83	0.47
17:AQ:24:CYS:HA	17:AQ:39:LEU:CA	2.45	0.47
18:AR:43:LEU:HD11	18:AR:53:HIS:HD2	1.80	0.47
18:AR:76:GLU:O	18:AR:77:ARG:C	2.52	0.47
19:AS:14:ASN:CB	19:AS:16:HIS:HE1	2.27	0.47
21:AU:43:PHE:C	21:AU:51:LEU:HD13	2.34	0.47
1:AA:193:C:H4'	23:AW:61:SER:CA	2.45	0.47
1:AA:1242:C:OP1	24:AX:10:ARG:NH1	2.48	0.47
49:B1:55:LEU:O	49:B1:58:VAL:HG22	2.15	0.47
50:B2:28:LEU:CD2	50:B2:33:GLN:HE22	2.28	0.47
53:B5:37:ARG:HB2	53:B5:51:GLU:HB2	1.94	0.47
53:B5:14:THR:CB	53:B5:51:GLU:HA	2.44	0.47
55:B7:51:ALA:O	55:B7:54:GLU:OE1	2.31	0.47
25:BA:1023:U:C6	25:BA:1023:U:C3'	2.98	0.47
25:BA:1027:A:N3	25:BA:1028:A:C8	2.82	0.47
25:BA:112:U:HO2'	25:BA:113:G:P	2.38	0.47
25:BA:1183:G:O2'	25:BA:1184:G:P	2.73	0.47
25:BA:489:G:C8	25:BA:1284:A:C4	3.03	0.47
25:BA:1287:A:OP1	39:BQ:105:ARG:N	2.37	0.47
25:BA:1288:U:O2	25:BA:1327:C:C2	2.68	0.47
25:BA:1299:G:O4'	25:BA:1301:A:N3	2.48	0.47
25:BA:1306:C:H2'	25:BA:1307:A:O4'	2.14	0.47
25:BA:1350:C:H2'	25:BA:1351:C:C5'	2.44	0.47
25:BA:1372:U:N3	25:BA:1373:A:C5	2.83	0.47
25:BA:1403:C:OP1	25:BA:1521:G:N1	2.49	0.47
25:BA:1475:G:C6	25:BA:1477:A:N6	2.79	0.47
25:BA:1539:G:O6	25:BA:1540:G:O6	2.33	0.47
25:BA:1581:G:C2'	25:BA:1582:C:H5'	2.43	0.47
25:BA:1619:G:N2	25:BA:1620:G:H1'	2.30	0.47
25:BA:1669:A:H2'	25:BA:1670:C:C5'	2.44	0.47
25:BA:1783:A:O5'	25:BA:1784:A:OP1	2.32	0.47
25:BA:1796:U:H2'	25:BA:1797:C:C5	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1831:G:C6	25:BA:1975:G:C6	3.03	0.47
25:BA:1839:G:N7	25:BA:1927:A:H1'	2.30	0.47
25:BA:184:C:H2'	25:BA:185:U:C6	2.49	0.47
25:BA:1897:G:H2'	25:BA:1898:U:O4'	2.15	0.47
25:BA:1911:U:C2'	25:BA:1912:A:C5'	2.93	0.47
25:BA:1834:U:O2'	25:BA:1969:A:C5	2.66	0.47
25:BA:196:A:N6	25:BA:831:G:O2'	2.47	0.47
25:BA:200:U:H3'	25:BA:200:U:H6	1.79	0.47
25:BA:2016:U:C1'	52:B4:6:VAL:CG1	2.93	0.47
25:BA:2231:C:C2	25:BA:2232:U:C5	3.03	0.47
25:BA:2349:G:O6	25:BA:2350:C:C4	2.67	0.47
25:BA:2356:C:H2'	25:BA:2357:U:C5'	2.45	0.47
25:BA:2392:A:C2'	25:BA:2393:A:C5'	2.83	0.47
25:BA:2399:G:C2	53:B5:21:TYR:OH	2.67	0.47
25:BA:2454:G:N7	25:BA:2455:G:N7	2.63	0.47
25:BA:2586:C:C4	25:BA:2587:A:N6	2.70	0.47
25:BA:2589:A:C2	25:BA:2606:C:N4	2.83	0.47
25:BA:2704:C:H2'	25:BA:2705:A:C8	2.50	0.47
25:BA:2754:U:C6	25:BA:2754:U:O5'	2.57	0.47
25:BA:2638:G:N7	25:BA:2775:A:C6	2.83	0.47
25:BA:2776:A:C4	25:BA:2778:A:N7	2.83	0.47
25:BA:2811:G:C5'	29:BE:60:ASN:ND2	2.78	0.47
25:BA:2879:C:C5'	25:BA:2880:C:OP1	2.62	0.47
25:BA:364:C:O2'	25:BA:365:C:H6	1.97	0.47
25:BA:34:C:H2'	25:BA:455:C:N4	2.30	0.47
25:BA:468:G:H2'	25:BA:469:G:C5'	2.44	0.47
25:BA:475:U:H5	25:BA:509:C:H42	1.63	0.47
25:BA:528:A:C2'	25:BA:529:A:OP1	2.63	0.47
25:BA:261:G:H4'	25:BA:608:A:C2	2.46	0.47
25:BA:261:G:C5'	25:BA:608:A:H2	2.28	0.47
25:BA:627:A:C4	25:BA:637:A:C5	3.03	0.47
25:BA:465:G:N2	25:BA:683:C:HO2'	2.13	0.47
25:BA:756:C:N4	25:BA:757:U:N3	2.62	0.47
25:BA:775:G:C2	25:BA:787:U:C2'	2.90	0.47
25:BA:776:G:C4	25:BA:793:A:C6	3.03	0.47
25:BA:464:U:C1'	25:BA:788:A:C6	2.98	0.47
25:BA:848:G:C2	25:BA:933:A:N3	2.82	0.47
25:BA:969:U:C2	25:BA:970:C:C5	3.03	0.47
26:BB:113:C:O4'	40:BR:45:GLY:O	2.33	0.47
26:BB:73:A:C6	26:BB:104:A:C4	3.03	0.47
27:BC:99:ILE:HG12	27:BC:107:TRP:HZ3	1.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:151:LYS:CD	28:BD:154:LYS:HZ3	2.27	0.47
28:BD:208:LYS:NZ	28:BD:211:ARG:NE	2.62	0.47
25:BA:2597:G:C4'	28:BD:242:ARG:HE	2.27	0.47
29:BE:37:ARG:O	29:BE:39:PRO:HD3	2.15	0.47
30:BF:119:ARG:HH21	30:BF:119:ARG:CB	2.16	0.47
25:BA:673:C:H4'	30:BF:82:ILE:CG1	2.44	0.47
32:BH:107:VAL:HG13	32:BH:152:ARG:HD2	1.93	0.47
32:BH:151:ILE:O	32:BH:151:ILE:CG1	2.61	0.47
32:BH:159:GLU:HG2	32:BH:163:TYR:CZ	2.50	0.47
32:BH:172:LYS:HE2	32:BH:172:LYS:N	2.30	0.47
32:BH:22:GLY:O	32:BH:37:VAL:CG2	2.61	0.47
33:BK:7:GLU:CA	33:BK:14:ASP:HA	2.45	0.47
25:BA:1007:C:C3'	35:BM:108:PRO:HG3	2.45	0.47
35:BM:118:LYS:O	35:BM:121:LYS:HE2	2.14	0.47
35:BM:127:ASP:N	35:BM:129:PRO:CD	2.50	0.47
35:BM:31:ALA:HB2	35:BM:106:MET:CE	2.45	0.47
35:BM:34:LEU:HB3	35:BM:116:LEU:CD2	2.45	0.47
36:BN:18:LYS:NZ	36:BN:20:MET:CE	2.78	0.47
38:BP:11:LYS:NZ	38:BP:93:TYR:HE2	2.13	0.47
38:BP:130:LYS:HG2	38:BP:131:ILE:N	2.24	0.47
38:BP:45:GLN:H	38:BP:45:GLN:CD	2.18	0.47
25:BA:1653:G:H1	39:BQ:11:ASN:ND2	2.13	0.47
40:BR:19:LYS:O	40:BR:20:ARG:O	2.32	0.47
40:BR:49:VAL:HG21	40:BR:76:LYS:HG2	1.96	0.47
25:BA:1252:G:C2'	42:BT:33:ARG:HE	2.28	0.47
42:BT:74:LEU:HD23	42:BT:75:ASN:H	1.79	0.47
42:BT:94:ASN:HA	42:BT:97:ASP:CB	2.44	0.47
42:BT:94:ASN:OD1	43:BU:13:ARG:HD2	2.15	0.47
43:BU:43:GLU:H	43:BU:44:LYS:CE	2.28	0.47
43:BU:49:THR:HB	43:BU:50:PRO:CD	2.40	0.47
43:BU:67:GLY:O	43:BU:92:THR:OG1	2.33	0.47
46:BX:29:GLU:OE1	46:BX:32:PRO:HB2	2.13	0.47
48:BZ:7:LEU:HB3	48:BZ:8:GLY:H	1.44	0.47
33:BK:98:ALA:O	33:BK:101:LEU:HD23	2.15	0.47
33:BK:115:ALA:CB	33:BK:128:LEU:HD22	2.45	0.47
34:BL:17:ALA:O	34:BL:38:VAL:CG1	2.63	0.47
34:BL:24:GLY:HA2	34:BL:34:ILE:CG1	2.45	0.47
34:BL:27:LEU:HD11	34:BL:57:ILE:CD1	2.45	0.47
7:AG:159:ARG:O	7:AG:163:GLU:HB2	2.08	0.47
1:AA:1029:G:N3	1:AA:1031:G:OP2	2.48	0.47
1:AA:1032(B):G:N2	1:AA:1033:G:N3	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1033:G:N1	1:AA:1034:G:C5	2.83	0.47
1:AA:1036:G:C8	1:AA:1037:C:C5	3.03	0.47
25:BA:2186:G:N2	25:BA:2187:G:C5	2.83	0.47
1:AA:1010:G:N3	1:AA:1011:G:C8	2.83	0.47
3:AD:67:C:H2'	3:AD:68:U:C5'	2.44	0.47
34:BL:44:ALA:C	34:BL:46:ALA:N	2.67	0.47
43:BU:32:THR:O	43:BU:32:THR:HG22	2.14	0.47
1:AA:1046:A:C2	1:AA:1047:G:C8	3.03	0.46
1:AA:1071:C:N4	1:AA:1084:G:N2	2.63	0.46
1:AA:1073:U:O2'	1:AA:1074:G:H5'	2.16	0.46
1:AA:1171:G:N3	1:AA:1172:C:C5	2.83	0.46
1:AA:1057:G:C5	1:AA:1204:A:C2	3.02	0.46
1:AA:1246:C:C2'	1:AA:1247:U:O5'	2.63	0.46
1:AA:1411:C:N3	1:AA:1412:C:C5	2.82	0.46
1:AA:141:A:C6	1:AA:142:G:N7	2.83	0.46
1:AA:145:G:H2'	1:AA:146:G:H5'	1.96	0.46
1:AA:1474:G:C6	1:AA:1475:G:N7	2.83	0.46
1:AA:1521:G:C4	1:AA:1522:U:C5	3.03	0.46
1:AA:17:U:O2'	1:AA:18:C:O4'	2.28	0.46
1:AA:173:U:H4'	1:AA:197:A:C1'	2.45	0.46
1:AA:40:C:O2'	1:AA:41:G:C5'	2.63	0.46
1:AA:415:A:H2'	1:AA:416:G:O4'	2.14	0.46
1:AA:556:C:O2'	1:AA:557:G:H5'	2.15	0.46
1:AA:57:G:O6	1:AA:58:C:N4	2.48	0.46
1:AA:704:A:O2'	1:AA:705:U:H5'	2.16	0.46
1:AA:666:G:OP2	1:AA:726:C:H1'	2.15	0.46
1:AA:730:G:N7	1:AA:731:G:C1'	2.72	0.46
1:AA:778:G:C2'	1:AA:779:C:O4'	2.63	0.46
1:AA:781:A:H2'	1:AA:782:A:C4'	2.44	0.46
1:AA:834:C:C4	1:AA:853:G:N1	2.83	0.46
1:AA:950:U:H1'	1:AA:971:G:C4	2.50	0.46
2:AC:10:G:N2	2:AC:11:A:C8	2.83	0.46
2:AC:63:G:H2'	2:AC:64:G:C8	2.50	0.46
3:AD:58:A:C4	3:AD:61:C:C6	3.03	0.46
5:AE:115:LEU:HD23	5:AE:149:LEU:CD2	2.36	0.46
5:AE:55:PHE:CD2	5:AE:58:ILE:HD12	2.50	0.46
6:AF:15:THR:HG21	6:AF:181:ASN:HA	1.96	0.46
6:AF:23:TYR:CZ	13:AM:11:PHE:CD2	3.02	0.46
6:AF:27:LYS:O	6:AF:28:GLN:HB3	2.14	0.46
7:AG:145:GLU:O	7:AG:146:ILE:HG23	2.14	0.46
8:AH:79:GLU:CB	8:AH:91:LEU:O	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:96:PRO:O	8:AH:98:THR:N	2.48	0.46
10:AJ:150:ALA:HB2	14:AN:59:TYR:CD2	2.49	0.46
10:AJ:88:PRO:HA	10:AJ:89:MET:HE3	1.97	0.46
10:AJ:93:PRO:O	10:AJ:94:ARG:C	2.53	0.46
11:AK:112:LEU:CD2	11:AK:119:LEU:HB2	2.44	0.46
11:AK:33:GLU:HA	11:AK:59:LEU:CD1	2.45	0.46
13:AM:8:LEU:HD12	13:AM:19:SER:CB	2.45	0.46
14:AN:18:ARG:NE	14:AN:33:THR:OG1	2.43	0.46
14:AN:80:VAL:O	14:AN:106:LYS:CB	2.57	0.46
15:AO:35:GLY:HA3	15:AO:60:LEU:HA	1.96	0.46
16:AP:15:VAL:CG2	16:AP:39:ILE:HD12	2.46	0.46
16:AP:73:GLU:O	16:AP:76:ALA:N	2.48	0.46
16:AP:90:LEU:CD2	16:AP:93:ARG:HD3	2.30	0.46
1:AA:668:G:H1'	18:AR:46:HIS:CD2	2.48	0.46
18:AR:44:LYS:C	18:AR:46:HIS:H	2.18	0.46
19:AS:32:TYR:O	19:AS:34:GLU:N	2.48	0.46
49:B1:15:GLU:O	49:B1:16:LEU:C	2.53	0.46
49:B1:54:ARG:HH21	49:B1:54:ARG:CG	2.27	0.46
51:B3:6:HIS:NE2	51:B3:55:ARG:HB3	2.30	0.46
53:B5:9:LEU:CD2	53:B5:29:ASN:HD21	2.28	0.46
55:B7:34:TRP:CA	55:B7:36:LYS:HB2	2.45	0.46
55:B7:38:GLY:HA2	55:B7:41:ILE:CG1	2.45	0.46
55:B7:59:LYS:HA	55:B7:59:LYS:CE	2.43	0.46
55:B7:3:LYS:HZ3	55:B7:59:LYS:HZ1	1.63	0.46
25:BA:1020:A:H2	25:BA:1140:C:C2'	2.28	0.46
25:BA:1022:G:HO2'	25:BA:1023:U:P	2.23	0.46
25:BA:1029:A:H2'	25:BA:1030:G:H5'	1.96	0.46
25:BA:1327:C:C2'	25:BA:1328:G:C8	2.97	0.46
25:BA:1355:G:O2'	25:BA:1356:G:C5'	2.63	0.46
25:BA:1551:C:C2'	25:BA:1552:G:H8	2.19	0.46
25:BA:1272:A:C5	25:BA:1618:A:H1'	2.49	0.46
25:BA:1665:A:N3	25:BA:1666:G:C1'	2.79	0.46
25:BA:1727:U:C2'	25:BA:1728:G:OP1	2.63	0.46
25:BA:1769:G:H1'	25:BA:1958:C:OP1	2.14	0.46
25:BA:1861:G:H5'	27:BC:205:LYS:HG3	1.97	0.46
25:BA:1889:A:C2	25:BA:2234:G:H1'	2.50	0.46
25:BA:1892:C:N4	25:BA:1893:C:H41	2.12	0.46
25:BA:1913:A:C2'	25:BA:1916:A:N1	2.78	0.46
25:BA:1955:U:O2'	25:BA:1956:U:OP1	2.33	0.46
25:BA:1956:U:N3	25:BA:1957:C:N4	2.63	0.46
25:BA:1992:G:O6	25:BA:1997:G:C4	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2096:U:H2'	25:BA:2097:C:C5	2.50	0.46
25:BA:2127:G:H21	25:BA:2128:C:H1'	1.79	0.46
25:BA:2302:G:O2'	25:BA:2303:G:H5'	2.15	0.46
25:BA:2296:U:C1'	25:BA:2335:A:N6	2.78	0.46
25:BA:2531:A:C2'	25:BA:2532:G:O5'	2.62	0.46
25:BA:2538:C:H2'	25:BA:2539:C:H6	1.80	0.46
25:BA:2013:A:H61	25:BA:2613:U:H3	1.61	0.46
25:BA:262:A:C5	25:BA:263:C:C6	3.03	0.46
25:BA:2675:A:H2'	25:BA:2676:C:O5'	2.14	0.46
25:BA:270(W):G:C5	25:BA:270(X):G:C8	3.02	0.46
25:BA:269:U:O4	25:BA:270(Z):U:C5'	2.63	0.46
25:BA:2731:G:H2'	25:BA:2732:G:C8	2.50	0.46
25:BA:284:U:OP2	25:BA:284:U:H3'	2.15	0.46
25:BA:2900:A:H2'	25:BA:2901:C:H6	1.81	0.46
25:BA:360:G:C8	25:BA:360:G:O5'	2.59	0.46
25:BA:418:G:C2	25:BA:419:C:C6	3.02	0.46
25:BA:432:A:N6	25:BA:433:C:N3	2.63	0.46
25:BA:473:G:O2'	25:BA:474:G:H5'	2.15	0.46
25:BA:558:G:C2'	25:BA:559:G:C5'	2.94	0.46
25:BA:558:G:C2'	25:BA:559:G:H5''	2.45	0.46
25:BA:583:G:H2'	25:BA:584:C:C5'	2.45	0.46
25:BA:61:G:H2'	25:BA:62:C:O5'	2.15	0.46
25:BA:64:A:H5''	45:BW:73:ARG:HA	1.96	0.46
25:BA:654:A:H3'	25:BA:654:A:N3	2.30	0.46
25:BA:723:G:O2'	25:BA:724:U:H5'	2.15	0.46
25:BA:73:A:H2'	25:BA:74:A:OP2	2.16	0.46
25:BA:675:A:C8	25:BA:804:A:C6	3.03	0.46
25:BA:824:A:H5''	25:BA:825:C:OP2	2.14	0.46
25:BA:828:U:O2'	25:BA:829:A:O4'	2.19	0.46
28:BD:124:PRO:O	28:BD:126:GLN:HG2	2.15	0.46
28:BD:182:LEU:HD11	28:BD:270:ILE:HD11	1.97	0.46
28:BD:81:ALA:O	28:BD:93:ALA:HA	2.15	0.46
28:BD:7:LYS:HD2	28:BD:91:ARG:NE	2.30	0.46
29:BE:108:SER:HB3	29:BE:164:ARG:CA	2.32	0.46
29:BE:201:THR:O	29:BE:202:LYS:CB	2.63	0.46
30:BF:135:LYS:CE	30:BF:137:LYS:HB2	2.46	0.46
30:BF:128:ALA:CB	30:BF:142:TRP:CH2	2.92	0.46
31:BG:132:ASN:O	31:BG:133:LEU:HD23	2.15	0.46
31:BG:49:ASP:O	31:BG:53:LEU:CB	2.57	0.46
31:BG:56:ALA:C	31:BG:68:PRO:HD2	2.35	0.46
32:BH:127:GLU:CG	32:BH:130:ARG:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:127:GLU:HG3	32:BH:130:ARG:HB2	1.98	0.46
32:BH:58:GLU:O	32:BH:62:LYS:CG	2.62	0.46
33:BK:7:GLU:O	33:BK:12:LEU:HA	2.15	0.46
35:BM:37:LYS:O	35:BM:38:HIS:HB2	2.14	0.46
36:BN:18:LYS:HE3	36:BN:19:ILE:O	2.15	0.46
36:BN:23:ARG:H	36:BN:40:VAL:CG1	2.28	0.46
36:BN:47:ILE:HG21	36:BN:53:LYS:HA	1.95	0.46
36:BN:90:GLN:O	36:BN:91:LEU:O	2.33	0.46
36:BN:95:GLY:O	36:BN:96:THR:O	2.33	0.46
38:BP:67:ARG:HD3	38:BP:103:MET:HB3	1.97	0.46
25:BA:1649:G:N3	39:BQ:107:ASP:HB2	2.30	0.46
39:BQ:79:LEU:CG	39:BQ:80:PHE:N	2.77	0.46
40:BR:36:TYR:CD1	40:BR:51:ALA:HB3	2.51	0.46
40:BR:58:LEU:O	40:BR:62:LYS:HG3	2.15	0.46
41:BS:108:ARG:HD3	41:BS:108:ARG:N	2.30	0.46
41:BS:34:VAL:CG1	41:BS:36:GLU:CD	2.78	0.46
36:BN:99:PHE:CZ	41:BS:72:VAL:HG21	2.51	0.46
25:BA:1154:G:OP1	42:BT:62:ILE:HD11	2.15	0.46
42:BT:82:GLY:N	42:BT:117:GLN:NE2	2.62	0.46
42:BT:93:LYS:CA	42:BT:93:LYS:NZ	2.78	0.46
43:BU:2:PHE:CB	43:BU:13:ARG:NH2	2.59	0.46
43:BU:4:ILE:CG2	43:BU:13:ARG:HG2	2.45	0.46
43:BU:75:PHE:HE1	43:BU:89:GLN:HG3	1.80	0.46
47:BY:9:TYR:HB3	47:BY:14:LYS:HG3	1.97	0.46
48:BZ:42:GLY:O	48:BZ:57:PHE:CD2	2.66	0.46
51:B3:14:ILE:O	51:B3:14:ILE:HG23	2.15	0.46
1:AA:1048:G:C5'	17:AQ:3:ARG:NH1	2.78	0.46
1:AA:1091:U:H3'	1:AA:1091:U:C6	2.50	0.46
1:AA:1085:U:O2	1:AA:1094:G:O6	2.34	0.46
1:AA:1210:C:C4	1:AA:1211:U:C4	3.04	0.46
1:AA:1301:U:O4	1:AA:1303:C:H1'	2.16	0.46
1:AA:1305:G:N3	1:AA:1331:G:N2	2.63	0.46
1:AA:1403:C:C1'	1:AA:1500:A:N1	2.75	0.46
1:AA:1504:G:H3'	1:AA:1504:G:C8	2.50	0.46
1:AA:179:A:C3'	1:AA:180:U:H6	2.29	0.46
1:AA:197:A:C6	1:AA:221:C:C4'	2.97	0.46
1:AA:301:G:N2	1:AA:302:G:N3	2.62	0.46
1:AA:40:C:O2'	1:AA:41:G:O5'	2.33	0.46
1:AA:467:G:H21	19:AS:82:GLN:NE2	2.13	0.46
1:AA:558:G:C5'	1:AA:559:A:H5''	2.45	0.46
1:AA:607:A:C2'	1:AA:608:A:C5'	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:689:C:N3	1:AA:690:G:N7	2.63	0.46
1:AA:696:A:C2	1:AA:697:U:O4'	2.69	0.46
1:AA:706:A:O4'	14:AN:29:ILE:CD1	2.64	0.46
1:AA:822:C:H2'	1:AA:823:G:C8	2.37	0.46
1:AA:990:C:C2'	1:AA:991:U:O4'	2.63	0.46
2:AC:59:A:C2'	2:AC:59:A:N3	2.78	0.46
3:AD:2:C:H2'	3:AD:3:C:H6	1.77	0.46
3:AD:34:G:N2	3:AD:35:A:C5'	2.78	0.46
5:AE:184:VAL:O	5:AE:198:ASP:CB	2.49	0.46
5:AE:47:THR:OG1	5:AE:202:PRO:HG2	2.15	0.46
5:AE:44:LEU:O	5:AE:47:THR:HB	2.16	0.46
6:AF:123:GLN:O	6:AF:124:ILE:C	2.54	0.46
6:AF:172:ARG:HH12	6:AF:174:PRO:CG	2.28	0.46
7:AG:101:LEU:O	7:AG:104:VAL:HG23	2.15	0.46
8:AH:105:VAL:HG12	8:AH:106:PRO:HD3	1.97	0.46
8:AH:30:ALA:O	8:AH:45:PHE:HA	2.15	0.46
8:AH:80:ILE:CD1	8:AH:91:LEU:CB	2.85	0.46
8:AH:84:PHE:CB	8:AH:134:ALA:CB	2.93	0.46
9:AI:60:PHE:N	9:AI:60:PHE:HD1	2.13	0.46
9:AI:67:MET:CE	9:AI:67:MET:N	2.79	0.46
10:AJ:113:GLU:OE1	10:AJ:119:ARG:HA	2.15	0.46
10:AJ:15:ASP:CG	10:AJ:23:VAL:HG11	2.35	0.46
10:AJ:3:ARG:C	10:AJ:4:ARG:HG2	2.34	0.46
11:AK:100:ILE:HG22	11:AK:121:ASP:OD1	2.15	0.46
11:AK:40:ALA:HA	11:AK:45:ILE:HG23	1.97	0.46
13:AM:52:GLY:HA3	13:AM:56:HIS:CD2	2.51	0.46
15:AO:60:LEU:HD11	15:AO:64:TYR:CD2	2.50	0.46
16:AP:81:LEU:HD23	16:AP:89:GLY:HA2	1.96	0.46
17:AQ:27:CYS:N	17:AQ:43:CYS:HB3	2.24	0.46
18:AR:70:LEU:HD23	18:AR:81:LEU:CD1	2.44	0.46
22:AV:47:HIS:H	22:AV:62:ILE:HG23	1.76	0.46
23:AW:104:LEU:O	23:AW:105:SER:O	2.32	0.46
49:B1:53:ALA:HA	49:B1:56:LEU:HD22	1.97	0.46
53:B5:20:ASN:HD21	53:B5:43:CYS:CB	2.24	0.46
53:B5:9:LEU:HD22	53:B5:27:LYS:HG2	1.93	0.46
54:B6:34:ARG:HH12	54:B6:40:TRP:HB2	1.80	0.46
55:B7:63:PRO:O	55:B7:64:TYR:O	2.34	0.46
25:BA:1007:C:OP2	25:BA:1008:C:H3'	2.15	0.46
25:BA:1028:A:H2'	25:BA:1029:A:H8	1.79	0.46
25:BA:1032:A:N6	25:BA:1123:C:N4	2.63	0.46
25:BA:1048:A:OP2	25:BA:1109:C:N4	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1140:C:OP2	35:BM:63:THR:HB	2.15	0.46
25:BA:1154:G:C8	25:BA:1154:G:O5'	2.68	0.46
25:BA:1513:C:H3'	25:BA:1513:C:C6	2.51	0.46
25:BA:1557:C:H2'	25:BA:1558:A:C8	2.50	0.46
25:BA:1665:A:C2	25:BA:1666:G:C8	3.03	0.46
25:BA:15:G:C2'	25:BA:16:G:C5'	2.93	0.46
25:BA:1746:G:C2'	25:BA:1747:G:O4'	2.64	0.46
25:BA:1813:G:C5'	25:BA:1814:G:OP2	2.54	0.46
25:BA:1819:A:H1'	25:BA:1821:A:N1	2.29	0.46
25:BA:1936:A:H5'	25:BA:1937:A:N3	2.31	0.46
25:BA:1669:A:N1	25:BA:1994:C:O2	2.48	0.46
25:BA:2051:A:O3'	29:BE:141:ILE:CD1	2.63	0.46
25:BA:2091:U:H2'	25:BA:2092:U:H5'	1.97	0.46
25:BA:2296:U:H1'	25:BA:2335:A:N6	2.29	0.46
25:BA:2304:G:H2'	25:BA:2304:G:N3	2.31	0.46
25:BA:2305:A:C8	25:BA:2306:C:C6	3.03	0.46
25:BA:2350:C:HO2'	25:BA:2351:G:C4'	2.28	0.46
25:BA:2360:A:H5'	55:B7:49:VAL:CG2	2.44	0.46
25:BA:2406:U:C5	37:BO:65:ARG:HB3	2.50	0.46
25:BA:2457:U:O4	25:BA:2458:G:C2	2.69	0.46
25:BA:2461:C:C2'	25:BA:2462:U:O5'	2.63	0.46
25:BA:2495:G:H2'	25:BA:2496:C:O4'	2.16	0.46
25:BA:2527:C:H2'	25:BA:2528:U:H6	1.81	0.46
25:BA:2561:A:H2'	25:BA:2562:U:O5'	2.15	0.46
25:BA:2570:G:N2	25:BA:2571:C:O2	2.48	0.46
25:BA:2604:U:C2	25:BA:2605:U:C5	3.03	0.46
25:BA:2698:U:H2'	25:BA:2699:C:H5	1.76	0.46
25:BA:2738:A:C2'	25:BA:2739:U:O5'	2.63	0.46
25:BA:282:A:C2	25:BA:284:U:O5'	2.69	0.46
25:BA:2812:G:N2	25:BA:2889:C:C2	2.83	0.46
25:BA:386:G:O2'	25:BA:387:U:C4	2.68	0.46
25:BA:458:G:C1'	25:BA:469:G:O6	2.62	0.46
25:BA:468:G:C6	25:BA:469:G:N3	2.83	0.46
25:BA:533:G:C2	25:BA:534:U:O2	2.67	0.46
25:BA:558:G:OP1	35:BM:112:LEU:N	2.45	0.46
25:BA:564:C:C5	25:BA:573:G:OP1	2.68	0.46
25:BA:584:C:C2'	25:BA:585:G:C5'	2.94	0.46
25:BA:587:C:HO2'	25:BA:588:U:P	2.38	0.46
25:BA:628:G:O2'	25:BA:650:C:O2'	2.33	0.46
25:BA:685:A:C5	25:BA:774:A:C6	3.03	0.46
25:BA:711:G:H8	25:BA:711:G:O5'	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:718:A:H5''	25:BA:719:C:OP2	2.15	0.46
25:BA:724:U:O2	25:BA:725:G:O4'	2.32	0.46
25:BA:757:U:O5'	25:BA:757:U:H6	1.98	0.46
25:BA:857:C:C5'	25:BA:857:C:H6	2.27	0.46
25:BA:930:U:H1'	25:BA:932:G:C5	2.50	0.46
25:BA:984:A:H5''	25:BA:985:C:C5	2.50	0.46
25:BA:994:C:H3'	42:BT:54:LYS:HZ1	1.79	0.46
26:BB:32:C:OP1	26:BB:32:C:O4'	2.33	0.46
26:BB:37:C:N3	26:BB:48:A:O2'	2.47	0.46
26:BB:77:U:H5	26:BB:98:G:N2	2.13	0.46
27:BC:18:LYS:O	27:BC:20:TYR:CD2	2.68	0.46
27:BC:211:SER:CB	27:BC:213:TYR:CZ	2.96	0.46
27:BC:47:LEU:HA	27:BC:208:PHE:O	2.15	0.46
29:BE:74:PRO:HB2	29:BE:75:VAL:H	1.54	0.46
25:BA:799:G:OP1	30:BF:57:VAL:HG13	2.14	0.46
31:BG:20:ILE:HG22	31:BG:21:ARG:H	1.78	0.46
31:BG:40:ASN:HD22	31:BG:41:GLN:H	1.63	0.46
31:BG:48:GLU:O	31:BG:49:ASP:HB2	2.16	0.46
31:BG:78:SER:HB2	31:BG:82:LEU:C	2.36	0.46
31:BG:98:ARG:O	31:BG:102:PHE:HB2	2.14	0.46
32:BH:15:VAL:HG13	32:BH:15:VAL:O	2.14	0.46
32:BH:164:TYR:HD2	32:BH:166:GLY:H	1.63	0.46
32:BH:52:VAL:HG23	32:BH:65:HIS:CE1	2.50	0.46
35:BM:101:HIS:CD2	35:BM:104:LYS:HE3	2.50	0.46
35:BM:74:ARG:HG2	35:BM:76:SER:OG	2.14	0.46
37:BO:114:ILE:HG13	37:BO:123:LEU:HG	1.95	0.46
37:BO:83:VAL:HG23	37:BO:84:ASN:N	2.30	0.46
38:BP:83:MET:N	38:BP:83:MET:HE2	2.30	0.46
39:BQ:31:HIS:CD2	39:BQ:34:ILE:HD11	2.50	0.46
39:BQ:62:ALA:HB3	39:BQ:80:PHE:HZ	1.81	0.46
40:BR:25:ARG:O	40:BR:39:ILE:HG23	2.15	0.46
40:BR:38:GLN:NE2	40:BR:47:THR:HG23	2.30	0.46
41:BS:33:LYS:N	41:BS:87:ASP:HB3	2.30	0.46
41:BS:32:TYR:CA	41:BS:87:ASP:O	2.63	0.46
25:BA:445:C:P	42:BT:2:PRO:HB2	2.52	0.46
42:BT:94:ASN:ND2	43:BU:6:LYS:CE	2.78	0.46
44:BV:45:TYR:N	44:BV:45:TYR:CD2	2.75	0.46
25:BA:748:G:C5	44:BV:90:ARG:NH1	2.83	0.46
25:BA:297:C:C4'	46:BX:83:THR:OG1	2.62	0.46
47:BY:98:MET:HG2	47:BY:133:ILE:HG21	1.94	0.46
47:BY:77:ASP:HB3	47:BY:82:ARG:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1071:G:N2	25:BA:1090:U:O4	2.48	0.46
34:BL:79:ARG:CG	34:BL:134:MET:HE3	2.39	0.46
34:BL:77:LEU:HD12	34:BL:111:LYS:CE	2.45	0.46
34:BL:87:GLY:C	34:BL:89:HIS:H	2.18	0.46
6:AF:157:ILE:HG13	6:AF:164:ARG:CZ	2.44	0.46
1:AA:435:C:H2'	1:AA:436:C:C5'	2.44	0.46
26:BB:88:C:OP1	26:BB:88:C:H5	1.98	0.46
1:AA:1063:C:H5''	1:AA:1064:G:C5'	2.42	0.46
1:AA:1142:G:HO2'	1:AA:1143:G:H5'	1.77	0.46
1:AA:1127:G:O2'	1:AA:1148:U:C4	2.62	0.46
1:AA:1193:G:C3'	1:AA:1193:G:C8	2.98	0.46
1:AA:1196:U:H5'	1:AA:1197:G:H5''	1.89	0.46
1:AA:1242:C:C4	1:AA:1243:C:C5	3.03	0.46
1:AA:1253:G:C2'	1:AA:1254:C:O4'	2.58	0.46
1:AA:1261:A:N1	1:AA:1274:G:H1'	2.30	0.46
1:AA:1282:C:C2'	1:AA:1282:C:O2	2.64	0.46
1:AA:1324:A:H2'	1:AA:1325:C:H5'	1.97	0.46
1:AA:1378:C:O5'	10:AJ:6:ARG:HD2	2.15	0.46
1:AA:1480:G:C2	1:AA:1481:U:H1'	2.50	0.46
1:AA:1494:G:O2'	1:AA:1495:U:C6	2.66	0.46
1:AA:166:G:C2'	1:AA:167:G:O5'	2.62	0.46
1:AA:177:C:N4	1:AA:178:C:H41	2.13	0.46
1:AA:57:G:N2	1:AA:388:G:C6	2.83	0.46
1:AA:451:A:O2'	1:AA:452:A:C8	2.67	0.46
1:AA:793:U:H5'	1:AA:794:A:H5''	1.97	0.46
1:AA:890:G:O2'	1:AA:891:U:P	2.73	0.46
1:AA:891:U:C5	1:AA:906:G:N2	2.82	0.46
1:AA:909:A:C2'	1:AA:910:C:H5'	2.46	0.46
1:AA:932:C:H5''	10:AJ:3:ARG:CD	2.26	0.46
1:AA:980:C:C4	1:AA:981:U:C2	3.03	0.46
1:AA:988:G:N1	1:AA:989:C:C2	2.83	0.46
5:AE:16:HIS:NE2	5:AE:213:LEU:HB3	2.30	0.46
5:AE:72:GLY:HA2	5:AE:165:VAL:HG22	1.98	0.46
6:AF:150:LYS:NZ	6:AF:152:ILE:HG21	2.30	0.46
6:AF:10:PHE:HD1	6:AF:178:LEU:HD22	1.81	0.46
6:AF:190:ARG:HA	6:AF:190:ARG:NE	2.30	0.46
6:AF:52:LEU:O	6:AF:53:ALA:CB	2.64	0.46
7:AG:151:LYS:C	7:AG:154:ASN:HD21	2.12	0.46
7:AG:180:GLY:O	7:AG:181:MET:C	2.54	0.46
7:AG:205:GLU:O	7:AG:208:SER:N	2.49	0.46
7:AG:20:TYR:HB2	7:AG:27:TYR:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:20:TYR:CE1	7:AG:21:LEU:CD2	2.97	0.46
7:AG:78:LEU:O	7:AG:81:GLU:CB	2.63	0.46
9:AI:2:ARG:O	9:AI:66:GLU:CA	2.63	0.46
9:AI:75:LEU:O	9:AI:78:GLU:HB3	2.15	0.46
11:AK:95:VAL:O	11:AK:130:GLY:CA	2.63	0.46
11:AK:63:LEU:HD23	11:AK:63:LEU:N	2.28	0.46
11:AK:97:VAL:HG13	11:AK:98:LYS:H	1.80	0.46
12:AL:5:TYR:HD2	12:AL:6:GLY:H	1.61	0.46
15:AO:101:VAL:O	15:AO:104:VAL:HB	2.15	0.46
15:AO:34:ARG:HG2	15:AO:35:GLY:N	2.29	0.46
15:AO:92:ASP:C	15:AO:93:LEU:HD23	2.36	0.46
16:AP:20:THR:CG2	16:AP:20:THR:O	2.64	0.46
17:AQ:13:THR:HG22	17:AQ:15:LYS:HB2	1.97	0.46
17:AQ:53:LEU:O	17:AQ:56:VAL:HG22	2.14	0.46
20:AT:17:LYS:NZ	20:AT:47:PRO:HA	2.30	0.46
20:AT:82:MET:O	20:AT:85:VAL:CB	2.60	0.46
9:AI:98:LEU:HD11	21:AU:28:GLU:HG3	1.96	0.46
21:AU:72:ARG:HH11	21:AU:72:ARG:CG	2.28	0.46
22:AV:27:GLU:O	22:AV:28:LYS:HB2	2.15	0.46
23:AW:13:LEU:O	23:AW:14:LYS:C	2.54	0.46
23:AW:26:ASN:O	23:AW:27:LYS:C	2.53	0.46
23:AW:79:ARG:HH11	23:AW:79:ARG:CG	2.27	0.46
50:B2:12:PRO:O	50:B2:13:ILE:C	2.53	0.46
50:B2:8:LEU:HD22	50:B2:8:LEU:C	2.35	0.46
54:B6:41:ARG:O	54:B6:42:LEU:CB	2.64	0.46
55:B7:22:VAL:N	55:B7:48:PHE:CE1	2.83	0.46
25:BA:1007:C:N3	25:BA:1008:C:N4	2.64	0.46
25:BA:1033:U:O4	25:BA:2750:A:H1'	2.15	0.46
25:BA:1139:G:C8	25:BA:1139:G:O5'	2.60	0.46
25:BA:1183:G:OP2	50:B2:30:ARG:NH1	2.48	0.46
25:BA:1223:C:C2	25:BA:1227:A:C2	3.04	0.46
25:BA:1258:C:H2'	25:BA:1259:G:H8	1.80	0.46
25:BA:1296:G:O2'	25:BA:1297:C:H5'	2.14	0.46
25:BA:1323:U:OP2	44:BV:84:ARG:NH1	2.48	0.46
25:BA:1314:C:C2	25:BA:1339:G:C2	3.03	0.46
25:BA:1363:C:O3'	25:BA:1809:A:C6	2.68	0.46
25:BA:1439:A:H3'	25:BA:1440:G:H8	1.79	0.46
25:BA:151:C:C2'	25:BA:152:G:C8	2.97	0.46
25:BA:1545(A):A:H3'	25:BA:1545(A):A:H8	1.80	0.46
25:BA:1545:A:N1	25:BA:1545(A):A:C2	2.84	0.46
25:BA:1552:G:C5'	25:BA:1553:A:OP1	2.60	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1555:G:H2'	25:BA:1556:C:H6	1.79	0.46
25:BA:1681:G:C5	25:BA:1762:A:N7	2.83	0.46
25:BA:1770:G:C6	25:BA:1771:C:C5	3.03	0.46
25:BA:1784:A:H4'	25:BA:1785:A:C1'	2.45	0.46
25:BA:1789:A:C3'	25:BA:1790:C:O4'	2.48	0.46
25:BA:1799:G:C2	25:BA:1819:A:N7	2.83	0.46
25:BA:1803:A:C2	25:BA:1822:G:N3	2.82	0.46
25:BA:1858:G:O2'	25:BA:1859:A:H5'	2.14	0.46
25:BA:1871:A:C4	25:BA:1872:A:N7	2.84	0.46
1:AA:1517:G:C1'	25:BA:1919:A:O3'	2.56	0.46
25:BA:1933:G:C6	25:BA:1934:C:C4	3.02	0.46
25:BA:2010:G:N7	25:BA:2011:U:C5	2.83	0.46
25:BA:2020:A:N7	25:BA:2022:U:N3	2.63	0.46
25:BA:2129:C:O2'	25:BA:2130:U:O4'	2.27	0.46
25:BA:2168:G:H21	25:BA:2170:A:H2'	1.80	0.46
25:BA:2255:G:C2	25:BA:2256:G:C4	3.03	0.46
25:BA:2296:U:C1'	25:BA:2335:A:H61	2.28	0.46
25:BA:230:U:H2'	25:BA:231:C:H6	1.80	0.46
25:BA:2317:C:N4	25:BA:2318:G:C6	2.82	0.46
25:BA:199:A:N1	25:BA:2434:A:C2	2.83	0.46
25:BA:2496:C:P	38:BP:83:MET:HE1	2.54	0.46
25:BA:2512:C:O5'	25:BA:2512:C:H6	1.98	0.46
25:BA:2568:C:H2'	25:BA:2569:G:H5'	1.96	0.46
25:BA:2618:G:N2	25:BA:2619:C:C1'	2.78	0.46
25:BA:2641:G:OP1	35:BM:75:TYR:CD1	2.68	0.46
25:BA:2663:G:N7	25:BA:2664:G:C5	2.84	0.46
25:BA:270(N):G:C5'	25:BA:270(O):U:C5	2.92	0.46
25:BA:271(C):U:C2'	25:BA:271:G:O4'	2.63	0.46
25:BA:2722:G:H4'	39:BQ:5:LYS:CB	2.46	0.46
25:BA:1050:A:N6	25:BA:2751:G:O6	2.49	0.46
25:BA:2772:C:N3	25:BA:2773:C:C5	2.84	0.46
25:BA:2781:A:C8	25:BA:2782:G:H1'	2.51	0.46
25:BA:2808:U:H5''	25:BA:2809:A:OP2	2.15	0.46
25:BA:2821:A:O3'	29:BE:162:ALA:HB2	2.15	0.46
25:BA:283:A:OP1	25:BA:284:U:C5	2.68	0.46
25:BA:2849:U:C5	25:BA:2866:U:O2'	2.69	0.46
25:BA:503:A:H1'	25:BA:505:A:C8	2.51	0.46
25:BA:510:C:P	25:BA:512:G:N1	2.75	0.46
25:BA:28:A:C8	25:BA:513:A:C5	3.03	0.46
25:BA:575:A:H2	25:BA:576:U:H1'	1.80	0.46
25:BA:608:A:H2'	25:BA:609:A:C5'	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:612:G:N2	25:BA:617:G:C6	2.83	0.46
25:BA:675:A:O2'	25:BA:676:A:O4'	2.33	0.46
25:BA:834:C:H1'	25:BA:2358:G:N3	2.29	0.46
25:BA:863:A:C2	25:BA:864:G:C5	3.03	0.46
25:BA:952:G:C6	25:BA:966:G:N1	2.83	0.46
26:BB:55:U:HO2'	26:BB:56:G:C4'	2.28	0.46
26:BB:77:U:C6	26:BB:77:U:C3'	2.98	0.46
27:BC:4:GLY:O	27:BC:5:LYS:CG	2.62	0.46
28:BD:148:GLU:O	28:BD:149:PRO:C	2.54	0.46
28:BD:34:VAL:O	28:BD:36:PRO:CD	2.63	0.46
28:BD:5:LYS:C	28:BD:6:PHE:O	2.54	0.46
28:BD:5:LYS:HB3	28:BD:29:PRO:CB	2.43	0.46
28:BD:85:ASP:C	28:BD:87:ASN:N	2.68	0.46
29:BE:172:VAL:O	29:BE:174:ASP:N	2.48	0.46
29:BE:53:PRO:HD3	29:BE:75:VAL:HG22	1.95	0.46
30:BF:49:ALA:O	30:BF:94:PRO:HD3	2.15	0.46
25:BA:674:G:H1'	30:BF:74:ARG:NH2	2.30	0.46
30:BF:89:VAL:CG1	30:BF:90:PHE:H	2.17	0.46
30:BF:9:ILE:HG12	30:BF:124:LEU:HB2	1.97	0.46
31:BG:135:LEU:CD2	31:BG:137:GLU:HB3	2.45	0.46
31:BG:21:ARG:CZ	31:BG:28:VAL:HG23	2.45	0.46
31:BG:56:ALA:O	31:BG:68:PRO:HD2	2.15	0.46
31:BG:7:LEU:HD22	31:BG:11:TYR:OH	2.14	0.46
32:BH:98:LEU:H	32:BH:125:VAL:HG21	1.79	0.46
32:BH:92:ILE:O	32:BH:95:ARG:NH1	2.49	0.46
33:BK:21:VAL:O	33:BK:26:ALA:N	2.48	0.46
35:BM:4:TYR:CE2	42:BT:101:ARG:HA	2.50	0.46
37:BO:122:PRO:HD3	37:BO:137:LYS:HB3	1.97	0.46
25:BA:663:G:C4'	37:BO:18:ARG:NE	2.74	0.46
25:BA:2415:G:C5'	37:BO:61:ARG:HE	2.28	0.46
37:BO:64:LYS:CD	37:BO:64:LYS:C	2.83	0.46
37:BO:97:PRO:C	37:BO:99:LEU:N	2.68	0.46
38:BP:82:ARG:HB2	48:BZ:5:LYS:CD	2.45	0.46
39:BQ:67:LEU:C	39:BQ:69:ASP:N	2.65	0.46
42:BT:32:PHE:O	42:BT:35:ALA:HB3	2.15	0.46
42:BT:14:HIS:CD2	42:BT:36:ARG:HH12	2.33	0.46
43:BU:48:GLY:O	43:BU:49:THR:HG23	2.16	0.46
43:BU:51:VAL:CG1	43:BU:51:VAL:O	2.64	0.46
43:BU:6:LYS:CD	43:BU:10:LYS:O	2.63	0.46
44:BV:6:ILE:O	44:BV:6:ILE:CG2	2.62	0.46
46:BX:41:GLY:HA3	46:BX:61:ILE:CG2	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BX:49:VAL:C	46:BX:51:VAL:N	2.68	0.46
46:BX:70:SER:O	46:BX:71:LYS:O	2.33	0.46
46:BX:97:ARG:C	46:BX:98:VAL:CG2	2.84	0.46
47:BY:9:TYR:CA	47:BY:14:LYS:HG2	2.45	0.46
25:BA:2603:G:P	48:BZ:1:MET:HB2	2.53	0.46
33:BK:82:ARG:O	33:BK:83:ALA:CB	2.62	0.46
25:BA:1097:U:H2'	25:BA:1098:A:O5'	2.15	0.46
34:BL:24:GLY:HA2	34:BL:34:ILE:HD13	1.98	0.46
25:BA:846:C:C1'	25:BA:847:U:N3	2.77	0.46
1:AA:96:G:N2	1:AA:97:U:H1'	2.31	0.46
4:A1:11:U:H2'	4:A1:11:U:O2	2.13	0.46
2:AC:25:C:H2'	2:AC:26:G:H8	1.77	0.46
1:AA:930:C:C4	1:AA:931:C:C5	3.02	0.46
2:AC:23:C:O2	2:AC:23:C:H2'	2.14	0.46
1:AA:1169:A:P	1:AA:1169:A:H8	2.38	0.46
1:AA:1284:C:C2	1:AA:1285:A:N7	2.84	0.46
1:AA:236:G:C3'	1:AA:237:C:H6	2.28	0.46
1:AA:265:G:C8	1:AA:267:C:C5	3.03	0.46
1:AA:277:C:N3	1:AA:278:G:N7	2.64	0.46
1:AA:290:C:C6	1:AA:290:C:H3'	2.51	0.46
1:AA:406:G:C2	1:AA:407:G:C5	3.03	0.46
1:AA:440:A:N7	1:AA:442:C:C5	2.84	0.46
1:AA:451:A:C2	1:AA:480:U:C5	3.03	0.46
1:AA:468:A:H1'	19:AS:82:GLN:HE21	1.80	0.46
1:AA:484:G:H8	1:AA:486:U:C2	2.33	0.46
1:AA:569:C:O4'	1:AA:574:A:N1	2.48	0.46
1:AA:582:U:C4	1:AA:760:G:C6	3.04	0.46
1:AA:731:G:HO2'	1:AA:732:C:H5'	1.77	0.46
1:AA:785:G:C2	1:AA:786:G:C8	3.03	0.46
1:AA:794:A:C8	1:AA:794:A:C3'	2.98	0.46
1:AA:881:G:H2'	1:AA:882:C:C6	2.48	0.46
1:AA:907:A:H3'	1:AA:908:A:C8	2.49	0.46
1:AA:993:G:N3	1:AA:995:C:N4	2.64	0.46
5:AE:123:ALA:O	5:AE:124:SER:O	2.34	0.46
5:AE:153:ARG:NH1	5:AE:156:LYS:HB2	2.29	0.46
5:AE:179:LYS:HG2	11:AK:72:PRO:CB	2.46	0.46
5:AE:223:ILE:HA	5:AE:226:ARG:NE	2.24	0.46
5:AE:32:ILE:HG22	5:AE:32:ILE:O	2.14	0.46
6:AF:180:ALA:HB1	6:AF:182:ILE:CD1	2.45	0.46
6:AF:73:PRO:HA	6:AF:76:VAL:HB	1.98	0.46
7:AG:101:LEU:O	7:AG:104:VAL:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:193:ASP:C	7:AG:194:LEU:HD22	2.36	0.46
8:AH:78:HIS:CD2	8:AH:142:LEU:CD2	2.99	0.46
8:AH:37:ARG:HG3	8:AH:37:ARG:HH11	1.80	0.46
8:AH:69:VAL:CG1	8:AH:71:LEU:HB2	2.45	0.46
9:AI:95:GLU:H	9:AI:96:PRO:HD3	1.79	0.46
11:AK:18:ARG:CD	11:AK:18:ARG:H	2.25	0.46
11:AK:37:ARG:HD2	11:AK:38:ILE:CA	2.45	0.46
12:AL:126:SER:HB3	12:AL:127:LYS:H	1.63	0.46
13:AM:65:LEU:HD13	17:AQ:36:PHE:HZ	1.80	0.46
15:AO:76:ASN:HD22	15:AO:77:LEU:HD23	1.81	0.46
16:AP:19:LEU:HD11	16:AP:30:ALA:CA	2.45	0.46
16:AP:7:VAL:HG11	31:BG:140:ILE:CG2	2.45	0.46
18:AR:36:ILE:CG2	18:AR:37:ASN:ND2	2.75	0.46
19:AS:74:LEU:CD2	19:AS:79:VAL:HG21	2.45	0.46
15:AO:11:VAL:CG2	20:AT:29:HIS:CD2	2.97	0.46
20:AT:33:GLY:O	20:AT:34:LYS:C	2.53	0.46
20:AT:75:ARG:HH12	20:AT:77:VAL:HA	1.79	0.46
21:AU:78:LEU:O	21:AU:79:LEU:HG	2.14	0.46
23:AW:42:GLN:NE2	23:AW:42:GLN:C	2.66	0.46
23:AW:55:ILE:HG13	23:AW:55:ILE:H	1.42	0.46
50:B2:10:LYS:HE2	50:B2:31:LEU:CG	2.45	0.46
55:B7:30:ARG:NE	55:B7:44:LYS:HD2	2.30	0.46
55:B7:3:LYS:O	55:B7:4:MET:CB	2.63	0.46
55:B7:51:ALA:C	55:B7:53:PRO:CD	2.84	0.46
25:BA:1119:C:C2'	25:BA:1120:G:H8	2.28	0.46
25:BA:1206:G:C8	25:BA:1206:G:O5'	2.69	0.46
25:BA:489:G:N7	25:BA:1284:A:C2	2.83	0.46
25:BA:1305:C:O2'	25:BA:1306:C:C5'	2.63	0.46
25:BA:122:G:N2	25:BA:130:C:H1'	2.30	0.46
25:BA:1316:U:H2'	25:BA:1317:A:C8	2.50	0.46
25:BA:1342:A:N9	25:BA:1345:C:N4	2.64	0.46
25:BA:1448:G:H2'	25:BA:1449:A:C8	2.50	0.46
25:BA:1465:G:N2	25:BA:1466:G:H1'	2.31	0.46
25:BA:1530:G:C3'	25:BA:1531:C:H6	2.25	0.46
25:BA:1529:A:H8	25:BA:1530:G:C5	2.34	0.46
25:BA:1567:A:OP1	28:BD:59:LYS:CE	2.64	0.46
25:BA:1989:G:C6	25:BA:1990:C:C4	3.04	0.46
25:BA:1993:U:C6	25:BA:1994:C:C5	3.04	0.46
25:BA:2029:G:C2	25:BA:2033:A:N7	2.83	0.46
25:BA:2053:G:H5''	29:BE:145:LYS:NZ	2.30	0.46
25:BA:2098:U:O2	25:BA:2192:G:C2	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2227:A:H5''	28:BD:260:ARG:CD	2.36	0.46
25:BA:2259:G:C2	25:BA:2282:G:N1	2.83	0.46
25:BA:2287:A:N7	25:BA:2289:G:C6	2.83	0.46
25:BA:2313:C:C2	25:BA:2314:C:C5	3.03	0.46
25:BA:2321:G:H21	25:BA:2322:A:C1'	2.28	0.46
25:BA:2290:G:N2	25:BA:2374:C:H4'	2.31	0.46
25:BA:2329:G:N2	25:BA:2387:U:C2	2.83	0.46
25:BA:2438:U:H4'	25:BA:2440:C:OP1	2.15	0.46
25:BA:2485:G:H2'	25:BA:2486:G:H8	1.81	0.46
25:BA:2492:U:H2'	25:BA:2493:U:O5'	2.15	0.46
25:BA:2551:C:H2'	25:BA:2552:U:O4'	2.16	0.46
25:BA:2563:U:C2	25:BA:2565:A:OP2	2.68	0.46
25:BA:256:A:H2'	25:BA:257:A:H8	1.80	0.46
25:BA:2586:C:O5'	25:BA:2586:C:H6	1.98	0.46
25:BA:2590:A:N6	25:BA:2591:C:N4	2.64	0.46
25:BA:2599:G:C2'	25:BA:2600:A:H8	2.22	0.46
25:BA:2616:C:C2'	25:BA:2617:C:C6	2.94	0.46
25:BA:260:G:C2	25:BA:261:G:N9	2.83	0.46
25:BA:2633:G:N1	25:BA:2634:G:C5	2.84	0.46
25:BA:2643:G:H2'	25:BA:2644:G:H8	1.77	0.46
25:BA:2694:G:C6	25:BA:2695:C:C4	3.04	0.46
25:BA:1456:G:N2	25:BA:2703:C:C5	2.74	0.46
25:BA:1755:A:C2	25:BA:2716:U:H1'	2.50	0.46
25:BA:271(B):G:OP1	25:BA:271(C):U:C1'	2.63	0.46
25:BA:2741:A:C2'	25:BA:2742:C:H6	2.23	0.46
25:BA:285:C:C4	25:BA:286:C:N4	2.83	0.46
25:BA:289:A:C2'	25:BA:351:G:N2	2.75	0.46
25:BA:325:G:C2'	25:BA:326:G:O5'	2.63	0.46
25:BA:352:G:C2	25:BA:353:G:O4'	2.69	0.46
25:BA:357:A:C4	25:BA:358:U:C5	3.04	0.46
25:BA:374:A:H2'	25:BA:374:A:N3	2.30	0.46
25:BA:480:A:OP1	46:BX:44:ILE:CD1	2.62	0.46
25:BA:495:G:C2	25:BA:496:G:H1'	2.50	0.46
25:BA:609(A):G:N2	25:BA:619:G:O4'	2.49	0.46
25:BA:656:G:C5	25:BA:657:U:C4	3.03	0.46
25:BA:741:G:O2'	25:BA:742:G:H5'	2.15	0.46
25:BA:76:C:C2'	25:BA:76:C:O2	2.63	0.46
26:BB:106:G:O2'	26:BB:107:U:H5'	2.15	0.46
26:BB:16:G:O2'	26:BB:17:C:C5'	2.63	0.46
26:BB:30:C:H4'	26:BB:58:A:H2	1.80	0.46
27:BC:180:PHE:CD2	27:BC:181:PRO:HD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:91:ARG:HH21	28:BD:198:ASN:ND2	2.07	0.46
28:BD:209:ALA:CA	28:BD:213:ARG:HG2	2.44	0.46
28:BD:44:ASN:HB3	28:BD:217:ARG:HH22	1.79	0.46
28:BD:70:TRP:HE3	28:BD:73:VAL:CG1	2.28	0.46
25:BA:2773:C:H5''	29:BE:164:ARG:HH21	1.81	0.46
29:BE:91:VAL:CG1	29:BE:93:VAL:CG2	2.92	0.46
30:BF:117:ARG:CD	30:BF:191:ARG:HA	2.45	0.46
30:BF:80:ALA:H	30:BF:83:PHE:HE2	1.63	0.46
30:BF:53:THR:CA	30:BF:87:GLY:HA3	2.28	0.46
31:BG:118:ARG:HG3	31:BG:118:ARG:O	2.13	0.46
31:BG:74:LYS:O	31:BG:75:LYS:CB	2.63	0.46
31:BG:8:LYS:O	31:BG:9:ARG:C	2.54	0.46
32:BH:103:LEU:HD13	32:BH:115:VAL:CG1	2.38	0.46
33:BK:21:VAL:C	33:BK:26:ALA:HB2	2.36	0.46
35:BM:110:GLY:O	35:BM:114:ARG:CB	2.54	0.46
35:BM:39:ARG:CB	35:BM:40:PRO:HD2	2.37	0.46
36:BN:18:LYS:HZ3	36:BN:44:LYS:HD2	1.64	0.46
37:BO:122:PRO:HD3	37:BO:137:LYS:CB	2.45	0.46
37:BO:114:ILE:HD11	37:BO:130:PHE:CD2	2.51	0.46
25:BA:945:A:N7	37:BO:33:ARG:NH1	2.63	0.46
38:BP:104:PHE:O	38:BP:105:GLU:HG3	2.14	0.46
39:BQ:109:ALA:HA	39:BQ:110:PRO:HD2	1.80	0.46
25:BA:2690:C:H41	39:BQ:15:SER:N	2.12	0.46
39:BQ:5:LYS:HE2	39:BQ:6:SER:N	2.30	0.46
41:BS:65:LYS:CD	41:BS:75:ILE:CB	2.94	0.46
42:BT:55:ARG:O	42:BT:56:ASP:C	2.51	0.46
25:BA:1161:C:O2'	43:BU:22:VAL:HG13	2.14	0.46
42:BT:112:ARG:NH2	43:BU:50:PRO:HG3	2.29	0.46
44:BV:38:TYR:CD1	44:BV:38:TYR:N	2.83	0.46
45:BW:33:LYS:CB	45:BW:33:LYS:HZ2	2.27	0.46
45:BW:62:LYS:O	45:BW:72:LYS:HA	2.15	0.46
46:BX:1:MET:N	46:BX:33:LYS:CE	2.78	0.46
47:BY:24:LEU:CD1	47:BY:41:LEU:HD11	2.41	0.46
47:BY:4:ARG:HD2	47:BY:37:VAL:CG1	2.44	0.46
47:BY:70:LEU:O	47:BY:88:PHE:HA	2.16	0.46
33:BK:87:LYS:HG2	33:BK:122:GLU:HA	1.96	0.46
33:BK:130:TYR:CE1	33:BK:140:LEU:CD1	2.98	0.46
33:BK:68:LEU:O	33:BK:72:LEU:HG	2.16	0.46
25:BA:1056:G:O6	25:BA:1101:U:O5'	2.34	0.46
34:BL:26:ALA:O	34:BL:30:HIS:CB	2.62	0.46
34:BL:24:GLY:HA2	34:BL:34:ILE:HG21	1.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:30:LEU:HD23	22:AV:30:LEU:C	2.36	0.46
2:AC:28:C:HO2'	2:AC:29:G:H5'	1.80	0.46
3:AD:30:G:N1	3:AD:31:A:C6	2.83	0.46
1:AA:1126:U:C2	1:AA:1127:G:C8	3.03	0.46
1:AA:1171:G:C4	1:AA:1172:C:C5	3.03	0.46
1:AA:1426:C:C2	1:AA:1427:U:C5	3.03	0.46
1:AA:1430:C:C2	1:AA:1471:G:N2	2.84	0.46
1:AA:334:C:H2'	1:AA:335:C:H6	1.79	0.46
1:AA:344:A:H5''	1:AA:345:C:C5	2.50	0.46
1:AA:343:U:H2'	1:AA:344:A:O5'	2.15	0.46
1:AA:377:G:HO2'	1:AA:378:G:C5'	2.28	0.46
1:AA:478:A:C6	1:AA:479:C:N4	2.84	0.46
1:AA:64:G:C2	1:AA:67:C:N4	2.84	0.46
1:AA:730:G:O2'	1:AA:766:A:C4'	2.64	0.46
1:AA:767:A:H2'	1:AA:768:A:C5'	2.45	0.46
1:AA:775:G:C4	1:AA:776:G:N7	2.84	0.46
1:AA:859:A:C8	1:AA:860:A:C8	3.04	0.46
1:AA:953:G:O2'	1:AA:954:G:H5'	2.14	0.46
2:AC:13:C:H2'	2:AC:14:A:C5'	2.45	0.46
3:AD:14:A:N1	3:AD:15:G:O6	2.48	0.46
3:AD:37:A:C2	3:AD:38:A:H1'	2.50	0.46
5:AE:115:LEU:CB	5:AE:145:LEU:HG	2.38	0.46
5:AE:18:GLY:HA2	5:AE:42:ILE:N	2.18	0.46
5:AE:200:ILE:O	5:AE:200:ILE:HG22	2.16	0.46
6:AF:140:ARG:HA	6:AF:143:GLU:HB2	1.98	0.46
7:AG:34:GLU:O	7:AG:35:ARG:CB	2.62	0.46
7:AG:95:GLY:O	7:AG:98:GLU:HB3	2.16	0.46
8:AH:37:ARG:NH2	8:AH:112:LEU:CD2	2.78	0.46
8:AH:18:ARG:CB	8:AH:26:PHE:HA	2.45	0.46
1:AA:1298:C:H41	10:AJ:114:ARG:HB3	1.79	0.46
10:AJ:30:ILE:CD1	10:AJ:43:PHE:HB2	2.45	0.46
10:AJ:62:PHE:O	10:AJ:66:VAL:HG23	2.15	0.46
11:AK:69:ARG:HH12	11:AK:70:GLN:HG3	1.81	0.46
11:AK:69:ARG:NH1	11:AK:70:GLN:HG3	2.31	0.46
12:AL:47:LEU:HD22	12:AL:50:LEU:CB	2.45	0.46
12:AL:69:GLY:O	12:AL:70:LYS:O	2.34	0.46
13:AM:8:LEU:HD12	13:AM:19:SER:HB3	1.97	0.46
14:AN:78:GLN:CD	14:AN:79:SER:N	2.69	0.46
15:AO:34:ARG:HB2	15:AO:105:TYR:CE1	2.51	0.46
1:AA:952:U:H5	16:AP:104:ARG:HH12	1.64	0.46
17:AQ:39:LEU:HD13	17:AQ:44:LEU:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:48:TRP:CD1	19:AS:48:TRP:C	2.87	0.46
22:AV:21:GLU:O	22:AV:24:ALA:HB2	2.15	0.46
1:AA:324:G:H5''	23:AW:70:SER:OG	2.15	0.46
23:AW:76:ALA:O	23:AW:78:ALA:N	2.48	0.46
49:B1:33:GLN:O	49:B1:35:SER:N	2.48	0.46
49:B1:47:ASP:O	49:B1:50:ARG:HB2	2.16	0.46
49:B1:50:ARG:HH21	49:B1:50:ARG:HG3	1.79	0.46
51:B3:58:ARG:NH1	51:B3:58:ARG:CG	2.77	0.46
51:B3:44:THR:H	51:B3:61:ARG:HH21	1.63	0.46
25:BA:104:U:O2	25:BA:105:C:C1'	2.63	0.46
25:BA:1129:A:O2'	25:BA:1130:U:OP2	2.32	0.46
25:BA:1148:A:N1	25:BA:1149:G:C6	2.83	0.46
25:BA:551:G:C4'	25:BA:1220:A:C2	2.99	0.46
25:BA:1403:C:H5''	25:BA:1471:A:O4'	2.15	0.46
25:BA:1414:G:N2	25:BA:1415:U:C2	2.83	0.46
25:BA:1424:G:C8	25:BA:1424:G:OP2	2.68	0.46
25:BA:1495:A:H2'	25:BA:1496:A:N7	2.30	0.46
25:BA:1582:C:C4	25:BA:1583:A:N7	2.84	0.46
25:BA:1633:G:H2'	25:BA:1634:A:C5'	2.45	0.46
25:BA:1660:C:H42	25:BA:2001:A:N6	2.13	0.46
25:BA:1661:G:C6	25:BA:1662:C:N4	2.83	0.46
25:BA:1672:C:H6	25:BA:1673:U:H5'	1.81	0.46
25:BA:1753:G:N1	25:BA:1756:G:C2	2.84	0.46
25:BA:1772:G:N2	25:BA:1774:C:C5'	2.78	0.46
25:BA:1928:A:C2'	25:BA:1929:G:H5'	2.45	0.46
25:BA:1946:U:C2	25:BA:1947:C:C5	3.03	0.46
25:BA:1985:G:N1	25:BA:1986:A:C5	2.84	0.46
25:BA:2014:A:C2'	25:BA:2015:A:H2	2.20	0.46
25:BA:2104:G:C2	25:BA:2105:C:C2	3.03	0.46
25:BA:2115:G:O4'	25:BA:2167:U:O2'	2.34	0.46
25:BA:2132:U:O2	25:BA:2133:G:C5'	2.64	0.46
25:BA:2134:A:OP1	25:BA:2159:G:N2	2.46	0.46
25:BA:214:G:C2'	25:BA:215:G:O4'	2.58	0.46
25:BA:2169:A:N1	25:BA:2170:A:C2	2.83	0.46
25:BA:2197:U:C6	25:BA:2224:G:N1	2.84	0.46
25:BA:2286:A:C8	25:BA:2286:A:H3'	2.51	0.46
25:BA:2305:A:H1'	31:BG:155:MET:CA	2.45	0.46
25:BA:2306:C:OP2	25:BA:2307:G:C8	2.69	0.46
25:BA:2361:A:C2	25:BA:2362:G:H1'	2.51	0.46
25:BA:2290:G:N2	25:BA:2374:C:C4'	2.79	0.46
3:AD:76:A:OP1	25:BA:2422:A:N7	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2423:U:O2'	25:BA:2425:A:C3'	2.62	0.46
25:BA:248:G:N2	25:BA:2431:U:C5'	2.78	0.46
25:BA:2521:C:C2	25:BA:2522:U:C6	3.04	0.46
25:BA:2548:G:C2'	25:BA:2549:G:O5'	2.63	0.46
25:BA:2580:U:C6	25:BA:2581:G:N7	2.83	0.46
25:BA:2581:G:C2	25:BA:2610:C:H6	2.32	0.46
25:BA:2685:G:H4'	36:BN:66:LYS:CE	2.42	0.46
25:BA:270(K):C:N4	25:BA:270(M):U:C6	2.84	0.46
25:BA:271(C):U:O4	25:BA:421:U:N3	2.49	0.46
25:BA:2776:A:C8	25:BA:2781:A:C5	3.03	0.46
25:BA:2778:A:H5'	25:BA:2779:U:OP2	2.16	0.46
25:BA:2826:A:H2'	25:BA:2827:C:O5'	2.15	0.46
25:BA:2862:G:C4	25:BA:2863:C:C5	3.04	0.46
25:BA:2893:G:O2'	25:BA:2894:G:O4'	2.34	0.46
25:BA:419:C:N4	25:BA:420:C:N4	2.64	0.46
25:BA:557:U:H4'	35:BM:112:LEU:HD21	1.98	0.46
25:BA:607:U:C6	25:BA:607:U:C4'	2.98	0.46
25:BA:630:G:N1	25:BA:634:C:N4	2.60	0.46
25:BA:638:G:N7	25:BA:639:U:C2	2.83	0.46
25:BA:752:A:H4'	25:BA:753:C:C5'	2.45	0.46
25:BA:756:C:C2'	25:BA:757:U:H5'	2.45	0.46
25:BA:783:A:H4'	25:BA:2589:A:P	2.55	0.46
25:BA:806:C:H6	25:BA:806:C:O5'	1.98	0.46
25:BA:963:U:C2'	25:BA:964:C:O5'	2.62	0.46
25:BA:998:C:H2'	25:BA:999:U:O4'	2.16	0.46
26:BB:30:C:C5	26:BB:31:C:C6	3.03	0.46
26:BB:69:G:H3'	26:BB:70:C:C6	2.51	0.46
27:BC:59:ARG:CZ	27:BC:164:ARG:HG2	2.45	0.46
25:BA:1501:C:C1'	28:BD:100:GLY:HA2	2.43	0.46
28:BD:12:SER:O	28:BD:13:ARG:O	2.34	0.46
28:BD:132:PRO:HD2	28:BD:135:PHE:CD2	2.51	0.46
25:BA:764:A:P	28:BD:215:LEU:HD11	2.56	0.46
28:BD:7:LYS:HD2	28:BD:27:THR:OG1	2.15	0.46
25:BA:1814:G:P	28:BD:43:ARG:HG3	2.56	0.46
29:BE:102:VAL:HA	29:BE:200:GLU:OE1	2.15	0.46
29:BE:51:PHE:CE1	29:BE:75:VAL:N	2.76	0.46
30:BF:103:LYS:HB3	30:BF:107:LYS:HE3	1.98	0.46
30:BF:110:LEU:HD23	30:BF:186:ILE:HD12	1.96	0.46
30:BF:192:LEU:CD1	30:BF:194:MET:HG3	2.34	0.46
16:AP:3:ARG:CD	31:BG:113:ARG:O	2.62	0.46
31:BG:140:ILE:O	31:BG:142:PRO:CD	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:170:ARG:HG2	31:BG:170:ARG:NH1	2.26	0.46
31:BG:43:LEU:C	31:BG:45:GLU:H	2.18	0.46
31:BG:74:LYS:HB3	31:BG:87:PRO:HG2	1.93	0.46
32:BH:117:PRO:CD	32:BH:123:PHE:CZ	2.98	0.46
32:BH:13:LYS:O	32:BH:13:LYS:HG3	2.15	0.46
32:BH:166:GLY:O	32:BH:167:GLU:O	2.34	0.46
33:BK:40:THR:HB	33:BK:43:ASN:H	1.81	0.46
35:BM:15:LEU:HG	35:BM:139:GLU:CG	2.39	0.46
35:BM:18:ALA:O	35:BM:21:LYS:HB2	2.15	0.46
36:BN:104:ARG:O	36:BN:105:GLU:C	2.54	0.46
36:BN:114:ILE:CG2	36:BN:115:VAL:H	2.27	0.46
37:BO:128:HIS:CA	37:BO:147:LEU:HD23	2.39	0.46
38:BP:102:VAL:HG22	38:BP:104:PHE:CE2	2.51	0.46
38:BP:128:LYS:HB2	38:BP:128:LYS:HZ2	1.80	0.46
38:BP:42:ILE:O	38:BP:42:ILE:CG2	2.62	0.46
38:BP:6:ARG:NH2	38:BP:8:LYS:C	2.69	0.46
39:BQ:103:ARG:CA	39:BQ:109:ALA:O	2.62	0.46
40:BR:16:ASN:O	40:BR:17:ARG:C	2.52	0.46
40:BR:24:LEU:CB	40:BR:40:ILE:O	2.64	0.46
41:BS:31:SER:HB2	41:BS:91:ARG:CZ	2.46	0.46
42:BT:97:ASP:C	42:BT:100:VAL:HG23	2.36	0.46
42:BT:111:GLU:N	42:BT:114:LYS:HZ1	2.14	0.46
42:BT:34:LYS:CE	42:BT:37:GLU:OE2	2.64	0.46
43:BU:35:LEU:O	43:BU:61:VAL:CA	2.64	0.46
44:BV:33:ARG:HE	44:BV:33:ARG:HA	1.80	0.46
44:BV:34:ASN:HD21	44:BV:37:ARG:NH1	2.07	0.46
45:BW:13:LEU:O	45:BW:18:TYR:HE1	1.98	0.46
45:BW:23:GLU:C	45:BW:23:GLU:CD	2.73	0.46
45:BW:51:VAL:HG13	45:BW:81:VAL:HG21	1.98	0.46
46:BX:37:VAL:HG13	46:BX:39:VAL:CB	2.45	0.46
46:BX:6:HIS:HB2	46:BX:71:LYS:HE2	1.96	0.46
47:BY:50:GLN:HB2	47:BY:53:ILE:CD1	2.43	0.46
26:BB:75:G:N2	47:BY:85:HIS:CE1	2.84	0.46
48:BZ:32:ARG:HG2	48:BZ:64:ASP:OD1	2.15	0.46
34:BL:100:THR:O	34:BL:104:VAL:CG2	2.64	0.46
34:BL:18:THR:N	34:BL:38:VAL:HG22	2.29	0.46
52:B4:28:PRO:O	52:B4:30:LEU:HD12	2.14	0.46
1:AA:1095:U:C2	1:AA:1096:C:C6	3.04	0.46
1:AA:1129:C:H4'	1:AA:1130:A:C8	2.49	0.46
1:AA:1182:G:OP1	1:AA:1184:G:H4'	2.16	0.46
1:AA:1053:G:O6	1:AA:1200:C:OP2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1324:A:C2	1:AA:1325:C:N1	2.84	0.46
1:AA:1437:C:O2	1:AA:1438:G:C8	2.68	0.46
1:AA:1475:G:C2	1:AA:1476:G:C5	3.04	0.46
1:AA:178:C:C2	1:AA:179:A:H8	2.34	0.46
1:AA:276:G:O2'	20:AT:68:ARG:NH1	2.48	0.46
1:AA:293:G:N3	1:AA:294:U:C6	2.83	0.46
1:AA:302:G:O6	1:AA:303:A:C6	2.68	0.46
1:AA:61:G:H22	1:AA:379:C:H4'	1.78	0.46
1:AA:429:U:O3'	7:AG:22:LYS:NZ	2.44	0.46
1:AA:474:G:C2'	1:AA:475:G:H5'	2.46	0.46
1:AA:373:A:H1'	1:AA:481:G:H1'	1.96	0.46
1:AA:51:A:C2'	1:AA:52:G:OP2	2.63	0.46
1:AA:577:G:N3	1:AA:578:C:C6	2.84	0.46
1:AA:610:G:C2	1:AA:611:A:C8	3.04	0.46
1:AA:657:G:H2'	1:AA:658:G:H5'	1.98	0.46
1:AA:702:A:HO2'	1:AA:703:G:P	2.38	0.46
1:AA:737:A:O2'	9:AI:72:VAL:CG2	2.63	0.46
1:AA:739:C:H2'	1:AA:740:U:O5'	2.16	0.46
1:AA:789:U:C2'	1:AA:790:A:O5'	2.64	0.46
1:AA:864:A:H2	1:AA:917:G:N3	2.14	0.46
1:AA:874:G:C2	1:AA:875:C:N1	2.84	0.46
1:AA:946:A:OP2	16:AP:114:ARG:NH2	2.41	0.46
5:AE:132:LYS:HA	5:AE:135:GLN:OE1	2.15	0.46
5:AE:219:VAL:O	5:AE:222:ILE:HD12	2.15	0.46
5:AE:28:PHE:O	5:AE:29:ALA:C	2.53	0.46
5:AE:69:LEU:HD23	5:AE:91:PRO:CB	2.45	0.46
6:AF:138:VAL:CG1	6:AF:149:ALA:HB3	2.43	0.46
7:AG:57:ARG:HA	7:AG:202:LEU:CD2	2.46	0.46
7:AG:13:ARG:NH1	7:AG:36:ARG:HD3	2.18	0.46
7:AG:4:TYR:CD2	7:AG:5:ILE:O	2.69	0.46
9:AI:44:GLY:HA2	9:AI:59:TYR:CE1	2.50	0.46
9:AI:69:GLU:O	9:AI:72:VAL:HG22	2.15	0.46
10:AJ:29:LYS:HZ3	10:AJ:102:ARG:HB2	1.79	0.46
10:AJ:135:VAL:O	10:AJ:139:GLU:OE2	2.33	0.46
11:AK:102:ARG:NH1	11:AK:102:ARG:HG2	2.24	0.46
11:AK:37:ARG:O	11:AK:38:ILE:C	2.54	0.46
12:AL:13:ALA:HB1	12:AL:73:GLN:HG2	1.97	0.46
13:AM:16:LEU:HD22	13:AM:16:LEU:N	2.31	0.46
13:AM:85:LEU:HD12	13:AM:85:LEU:H	1.81	0.46
15:AO:44:THR:CB	15:AO:45:PRO:HD2	2.45	0.46
15:AO:76:ASN:ND2	15:AO:77:LEU:HD23	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:82:VAL:O	15:AO:106:ASP:CB	2.61	0.46
16:AP:102:ARG:HG2	16:AP:105:THR:O	2.16	0.46
16:AP:42:ALA:O	16:AP:43:THR:C	2.54	0.46
1:AA:581:G:H4'	18:AR:64:ARG:HH12	1.81	0.46
22:AV:69:HIS:HB2	22:AV:74:PHE:CE1	2.49	0.46
50:B2:23:LEU:HD11	50:B2:50:VAL:HG22	1.98	0.46
51:B3:19:GLY:HA2	51:B3:32:TYR:CZ	2.51	0.46
53:B5:16:CYS:HA	53:B5:49:HIS:C	2.31	0.46
25:BA:1613:G:O4'	54:B6:3:ARG:CZ	2.64	0.46
25:BA:458:G:O2'	54:B6:40:TRP:CZ2	2.67	0.46
25:BA:1021:A:C2'	25:BA:1022:G:OP1	2.64	0.46
25:BA:1112:G:H2'	25:BA:1113:U:C5	2.50	0.46
25:BA:1139:G:H2'	25:BA:1140:C:C5'	2.45	0.46
25:BA:1429:G:H3'	25:BA:1430:C:C6	2.50	0.46
25:BA:1442:G:O2'	25:BA:1443:G:H5'	2.16	0.46
25:BA:1545:A:C6	25:BA:1545(A):A:N1	2.84	0.46
25:BA:1670:C:O2'	25:BA:1671:U:H5'	2.15	0.46
25:BA:1676:A:O5'	25:BA:1676:A:H8	1.98	0.46
25:BA:1686:C:H6	25:BA:1686:C:O5'	1.97	0.46
25:BA:1772:G:N2	25:BA:1774:C:H5"	2.31	0.46
25:BA:1820:U:C2'	28:BD:202:LYS:CG	2.90	0.46
25:BA:1899:G:N2	25:BA:1902:C:N4	2.64	0.46
25:BA:1910:G:C2	25:BA:1921:G:C2	3.04	0.46
25:BA:1995:U:C4	25:BA:1996:C:N4	2.83	0.46
25:BA:2000:G:C6	25:BA:2001:A:N7	2.84	0.46
25:BA:2061:G:H2'	25:BA:2063:C:N4	2.28	0.46
25:BA:2083:G:O2'	25:BA:2084:C:C5'	2.60	0.46
25:BA:2112:G:C2	25:BA:2113:U:C2	3.03	0.46
25:BA:2262:U:O4'	25:BA:2328:A:C2	2.69	0.46
25:BA:2331:G:O3'	48:BZ:43:THR:CB	2.61	0.46
25:BA:642:G:H4'	25:BA:2349:G:O2'	2.16	0.46
25:BA:2403:C:O2	25:BA:2403:C:H2'	2.16	0.46
25:BA:2431:U:H3'	25:BA:2431:U:C6	2.50	0.46
3:AD:76:A:C2	25:BA:2431:U:O3'	2.67	0.46
25:BA:2447:G:N9	25:BA:2501:C:C5	2.84	0.46
25:BA:2491:U:C5	25:BA:2492:U:OP2	2.69	0.46
25:BA:2493:U:H5"	25:BA:2493:U:C6	2.48	0.46
25:BA:247:G:C8	25:BA:249:C:O2	2.68	0.46
25:BA:2623:G:N2	25:BA:2624:G:C4	2.84	0.46
25:BA:2657:A:C8	25:BA:2657:A:C3'	2.98	0.46
25:BA:2675:A:H61	25:BA:2732:G:H1	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2764:A:C8	25:BA:2764:A:C3'	2.99	0.46
25:BA:2798:C:C5	25:BA:2801:A:N6	2.83	0.46
25:BA:2887:U:C2	25:BA:2888:C:C6	3.04	0.46
25:BA:270(C):C:P	25:BA:365:C:H2'	2.55	0.46
25:BA:416:C:H5''	25:BA:416:C:H6	1.79	0.46
25:BA:575:A:OP2	25:BA:2055:C:H5	1.98	0.46
25:BA:711:G:N2	25:BA:712:G:H1'	2.31	0.46
25:BA:728:G:O2'	25:BA:729:G:P	2.74	0.46
25:BA:743:G:H2'	25:BA:744:G:H8	1.80	0.46
25:BA:695:G:C5	25:BA:768:G:C6	3.04	0.46
25:BA:945:A:H2'	25:BA:946:G:H5''	1.97	0.46
26:BB:31:C:H2'	26:BB:32:C:H6	1.81	0.46
26:BB:32:C:C2'	26:BB:33:G:H8	2.28	0.46
26:BB:44:G:O2'	26:BB:45:A:C5'	2.64	0.46
26:BB:47:C:C6	26:BB:47:C:O5'	2.67	0.46
26:BB:55:U:O2'	26:BB:56:G:O4'	2.28	0.46
27:BC:91:ALA:HB3	27:BC:94:VAL:CG2	2.46	0.46
28:BD:117:VAL:HG13	28:BD:129:ASN:N	2.30	0.46
28:BD:125:ILE:HD12	28:BD:137:PRO:HD3	1.97	0.46
28:BD:165:ILE:H	28:BD:165:ILE:HD12	1.80	0.46
28:BD:228:PRO:O	28:BD:229:VAL:C	2.52	0.46
28:BD:232:PRO:HD2	28:BD:233:HIS:ND1	2.30	0.46
28:BD:236:GLY:O	28:BD:237:GLU:CB	2.64	0.46
25:BA:2596:U:C3'	28:BD:242:ARG:NE	2.78	0.46
29:BE:14:ILE:O	29:BE:14:ILE:CD1	2.62	0.46
29:BE:154:LYS:HZ2	29:BE:156:MET:HB2	1.79	0.46
25:BA:659:C:H5'	30:BF:102:PRO:CD	2.43	0.46
30:BF:130:ALA:CB	30:BF:142:TRP:CE3	2.97	0.46
30:BF:170:LEU:HB3	30:BF:171:PRO:HD3	1.98	0.46
30:BF:150:GLY:HA2	30:BF:172:TRP:CZ3	2.50	0.46
30:BF:30:PRO:CA	30:BF:33:LEU:HD21	2.44	0.46
30:BF:49:ALA:HB3	30:BF:92:PRO:O	2.14	0.46
31:BG:9:ARG:O	31:BG:12:TYR:CD2	2.68	0.46
31:BG:165:THR:HG22	31:BG:166:ASP:N	2.30	0.46
31:BG:78:SER:CB	31:BG:82:LEU:CG	2.84	0.46
32:BH:85:LYS:N	32:BH:133:VAL:O	2.48	0.46
32:BH:89:ILE:HG23	32:BH:94:TYR:CZ	2.51	0.46
32:BH:89:ILE:HG13	32:BH:90:LYS:N	2.31	0.46
33:BK:31:LEU:HD21	33:BK:36:ALA:HB3	1.88	0.46
35:BM:15:LEU:HD21	35:BM:137:LYS:CA	2.45	0.46
35:BM:27:ALA:O	35:BM:29:LYS:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:7:LYS:HZ3	35:BM:39:ARG:NH1	2.07	0.46
36:BN:106:LEU:HD22	41:BS:39:ARG:CZ	2.45	0.46
36:BN:40:VAL:CG1	36:BN:40:VAL:O	2.62	0.46
36:BN:13:ASN:CG	36:BN:52:VAL:HG12	2.36	0.46
36:BN:9:GLU:CB	36:BN:81:ASP:O	2.51	0.46
37:BO:22:GLY:HA2	37:BO:23:PRO:HD3	1.55	0.46
37:BO:6:LEU:C	37:BO:7:ARG:CG	2.83	0.46
38:BP:109:VAL:O	38:BP:110:THR:HB	2.15	0.46
39:BQ:84:ALA:N	39:BQ:85:PRO:CD	2.78	0.46
41:BS:53:ARG:HH12	41:BS:103:ARG:HA	1.81	0.46
41:BS:109:GLU:O	41:BS:110:ILE:CB	2.64	0.46
41:BS:17:THR:HG22	41:BS:18:ASP:N	2.31	0.46
36:BN:77:ILE:O	41:BS:75:ILE:CG1	2.63	0.46
42:BT:105:VAL:O	42:BT:109:LEU:HG	2.16	0.46
44:BV:2:GLU:HG2	44:BV:108:GLY:CA	2.46	0.46
25:BA:519:U:OP1	44:BV:75:TYR:CD1	2.68	0.46
45:BW:48:LYS:N	45:BW:48:LYS:HD2	2.30	0.46
45:BW:8:ILE:C	45:BW:9:LEU:CD1	2.82	0.46
46:BX:9:LYS:HD2	46:BX:110:GLU:CD	2.36	0.46
46:BX:1:MET:HA	46:BX:33:LYS:CD	2.46	0.46
46:BX:2:ARG:CD	46:BX:3:VAL:N	2.66	0.46
25:BA:297:C:H4'	46:BX:83:THR:CG2	2.46	0.46
47:BY:145:GLU:CA	47:BY:174:VAL:HG21	2.45	0.46
47:BY:177:PRO:HG2	47:BY:178:GLU:N	2.23	0.46
47:BY:19:ARG:HE	47:BY:24:LEU:CD2	2.29	0.46
48:BZ:25:ARG:HH11	48:BZ:29:GLN:HE22	1.61	0.46
33:BK:76:THR:CA	33:BK:141:LYS:HE2	2.46	0.46
33:BK:79:ILE:O	33:BK:144:VAL:HA	2.14	0.46
33:BK:87:LYS:HB3	33:BK:121:LYS:CB	2.27	0.46
25:BA:1093:G:N2	25:BA:1098:A:H62	2.11	0.46
34:BL:23:VAL:HG12	34:BL:34:ILE:CA	2.37	0.46
34:BL:8:VAL:CG1	34:BL:27:LEU:HD23	2.41	0.46
34:BL:58:THR:HG23	34:BL:67:PHE:CD1	2.51	0.46
1:AA:1001:G:C8	1:AA:1001:G:C3'	2.99	0.46
2:AC:28:C:H2'	2:AC:29:G:C8	2.28	0.46
25:BA:57:C:H6	25:BA:57:C:O5'	1.99	0.46
25:BA:1038:C:OP2	25:BA:1038:C:H6	1.99	0.46
1:AA:1113:C:C6	1:AA:1113:C:OP2	2.69	0.46
1:AA:1126:U:O2'	1:AA:1127:G:C5'	2.63	0.46
1:AA:1192:C:C5	1:AA:1193:G:C4	3.04	0.46
1:AA:959:A:C2	1:AA:1222:G:O4'	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1260:C:H4'	1:AA:1284:C:H5''	1.94	0.46
1:AA:1352:C:C4	1:AA:1371:G:O6	2.69	0.46
1:AA:1234:C:C4'	1:AA:1364:U:O2'	2.64	0.46
1:AA:1372:U:C4	1:AA:1373:G:N7	2.84	0.46
1:AA:1426:C:H2'	1:AA:1427:U:C6	2.51	0.46
1:AA:1433:A:N6	1:AA:1434:A:N1	2.63	0.46
1:AA:173:U:H5''	1:AA:197:A:C4'	2.45	0.46
1:AA:250:A:C2	1:AA:274:A:N1	2.71	0.46
1:AA:515:G:C2	1:AA:537:G:C4	3.04	0.46
1:AA:598:U:C2	1:AA:599:C:C5	3.04	0.46
1:AA:5:U:O2'	1:AA:6:G:P	2.74	0.46
1:AA:678:U:H2'	1:AA:679:C:H6	1.72	0.46
1:AA:775:G:C2	1:AA:776:G:C8	3.03	0.46
1:AA:792:A:H2	1:AA:794:A:C2	2.33	0.46
1:AA:824:C:O4'	11:AK:1:MET:N	2.47	0.46
1:AA:925:G:C2	1:AA:927:G:C8	3.03	0.46
1:AA:928:G:C5'	1:AA:1533:C:C2	2.99	0.46
1:AA:939:G:H2'	1:AA:940:C:H6	1.78	0.46
1:AA:954:G:C5	1:AA:955:U:C5	3.04	0.46
2:AC:14:A:C5	2:AC:15:G:N7	2.84	0.46
2:AC:47:U:C5	2:AC:49:G:H4'	2.51	0.46
2:AC:59:A:C2	2:AC:60:U:H1'	2.51	0.46
3:AD:48:C:O2'	3:AD:49:G:OP2	2.31	0.46
3:AD:75:C:H5''	3:AD:76:A:H4'	1.96	0.46
5:AE:226:ARG:CG	5:AE:227:GLY:N	2.71	0.46
5:AE:58:ILE:O	5:AE:61:LEU:CB	2.53	0.46
6:AF:123:GLN:CB	6:AF:128:PHE:CE2	2.94	0.46
6:AF:11:ARG:CB	6:AF:15:THR:O	2.64	0.46
6:AF:50:ALA:CB	6:AF:70:VAL:HG11	2.46	0.46
7:AG:112:VAL:CG2	7:AG:161:ASN:ND2	2.76	0.46
7:AG:13:ARG:HG2	7:AG:32:ALA:HB2	1.97	0.46
7:AG:12:CYS:N	7:AG:19:LEU:HB2	2.29	0.46
7:AG:209:ARG:HG2	7:AG:209:ARG:HH11	1.81	0.46
7:AG:3:ARG:CD	7:AG:71:SER:H	2.28	0.46
7:AG:71:SER:O	7:AG:75:PHE:CB	2.61	0.46
9:AI:99:ALA:O	9:AI:100:ASN:C	2.53	0.46
9:AI:19:LEU:CD2	9:AI:23:LYS:NZ	2.78	0.46
9:AI:37:VAL:HA	9:AI:65:VAL:CB	2.45	0.46
9:AI:80:ARG:HG2	9:AI:80:ARG:HH11	1.80	0.46
10:AJ:106:GLN:O	10:AJ:110:GLN:HG2	2.15	0.46
10:AJ:113:GLU:HB2	10:AJ:118:VAL:HG11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:75:VAL:CG2	10:AJ:145:ALA:HB1	2.45	0.46
11:AK:19:VAL:CG2	11:AK:21:LYS:HE3	2.46	0.46
11:AK:82:HIS:HD2	11:AK:138:TRP:NE1	2.13	0.46
12:AL:47:LEU:HD22	12:AL:50:LEU:HB3	1.97	0.46
14:AN:62:GLN:OE1	14:AN:63:LEU:HA	2.15	0.46
16:AP:60:VAL:O	16:AP:61:GLU:C	2.53	0.46
17:AQ:47:LEU:CB	17:AQ:53:LEU:HD11	2.45	0.46
18:AR:55:GLY:O	18:AR:58:MET:N	2.48	0.46
18:AR:77:ARG:NH1	18:AR:77:ARG:O	2.46	0.46
19:AS:71:ARG:CB	19:AS:71:ARG:NH1	2.79	0.46
9:AI:97:PHE:CD2	21:AU:31:LEU:HD13	2.50	0.46
53:B5:14:THR:CA	53:B5:51:GLU:HA	2.45	0.46
25:BA:1111:A:O5'	32:BH:4:ILE:HG21	2.16	0.46
25:BA:1144:G:O2'	25:BA:1145:C:C5'	2.64	0.46
25:BA:1186:G:H5''	25:BA:1186:G:C8	2.50	0.46
25:BA:10:G:N1	25:BA:11:G:C6	2.84	0.46
25:BA:1245:G:OP1	37:BO:15:ARG:HB2	2.16	0.46
25:BA:1309:G:N1	25:BA:1310:G:C5	2.83	0.46
25:BA:1341:U:C6	25:BA:1341:U:O5'	2.69	0.46
25:BA:1342:A:N3	25:BA:1397:U:H6	2.13	0.46
25:BA:1403:C:C2	25:BA:1404:C:C6	3.04	0.46
25:BA:140:A:C4	25:BA:141:A:C8	3.04	0.46
25:BA:1444:G:N2	25:BA:1548:C:N1	2.63	0.46
25:BA:1471:A:C8	25:BA:1521:G:N2	2.84	0.46
25:BA:1538:G:C2	25:BA:1539:G:C2	3.04	0.46
25:BA:1663:C:H2'	25:BA:1664:A:C4	2.50	0.46
25:BA:1758:G:C8	25:BA:2695:C:O2'	2.59	0.46
25:BA:1815:A:OP1	25:BA:1822:G:C5'	2.64	0.46
25:BA:2000:G:C2	25:BA:2001:A:N7	2.83	0.46
25:BA:961:C:C4	25:BA:2031:A:C4	3.04	0.46
25:BA:677:A:O3'	25:BA:2071:A:C5'	2.64	0.46
3:AD:19:G:O6	25:BA:2112:G:O6	2.34	0.46
25:BA:2132:U:O2	25:BA:2134:A:C5	2.69	0.46
25:BA:2164:C:N4	25:BA:2165:G:N2	2.64	0.46
25:BA:2192:G:C6	25:BA:2193:G:N7	2.84	0.46
25:BA:2226:C:H2'	25:BA:2227:A:C8	2.51	0.46
25:BA:2271:G:C8	25:BA:2271:G:O5'	2.62	0.46
25:BA:2289:G:C5'	25:BA:2384:G:H1'	2.25	0.46
25:BA:2450:A:C2	25:BA:2451:A:N9	2.79	0.46
25:BA:2495:G:O2'	38:BP:83:MET:HE1	2.15	0.46
25:BA:2497:A:C8	25:BA:2497:A:C3'	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2515:C:O2'	25:BA:2516:G:H5'	2.15	0.46
25:BA:2542:A:C4'	25:BA:2543:G:OP1	2.40	0.46
25:BA:2751:G:N3	25:BA:2751:G:C2'	2.78	0.46
25:BA:2637:U:N3	25:BA:2782:G:N2	2.64	0.46
25:BA:2850:A:N7	25:BA:2866:U:N3	2.62	0.46
25:BA:2893:G:P	25:BA:2893:G:O4'	2.73	0.46
25:BA:344:G:C8	25:BA:344:G:C3'	2.90	0.46
25:BA:357:A:H8	25:BA:357:A:P	2.38	0.46
25:BA:401:A:N6	25:BA:423:A:C2	2.83	0.46
25:BA:450:G:C3'	25:BA:450:G:C8	2.99	0.46
25:BA:474:G:O2'	25:BA:475:U:OP1	2.32	0.46
25:BA:579:G:C2	25:BA:1262:A:C6	3.03	0.46
25:BA:599:G:C6	25:BA:600:G:N7	2.83	0.46
25:BA:637:A:OP2	37:BO:113:LYS:NZ	2.48	0.46
25:BA:648:G:C4	25:BA:649:G:N7	2.83	0.46
25:BA:656:G:O2'	25:BA:657:U:H5'	2.16	0.46
25:BA:466:A:O4'	25:BA:683:C:H4'	2.15	0.46
25:BA:713:G:N2	25:BA:714:U:C2	2.83	0.46
25:BA:802:A:H2'	25:BA:803:U:C5	2.51	0.46
25:BA:805:G:N7	25:BA:2067:G:O3'	2.48	0.46
25:BA:957:A:C8	25:BA:957:A:C3'	2.99	0.46
26:BB:33:G:C2'	26:BB:33:G:N3	2.79	0.46
27:BC:107:TRP:NE1	27:BC:109:ASP:HB2	2.30	0.46
27:BC:114:VAL:O	27:BC:114:VAL:HG23	2.15	0.46
27:BC:123:VAL:O	27:BC:127:LEU:HB2	2.16	0.46
27:BC:161:ILE:HG22	27:BC:174:PRO:CG	2.45	0.46
27:BC:7:TYR:OH	27:BC:220:PRO:CA	2.63	0.46
28:BD:119:ALA:CB	28:BD:130:ALA:O	2.62	0.46
28:BD:133:LEU:HD12	28:BD:186:HIS:C	2.36	0.46
25:BA:1566:A:C6	28:BD:215:LEU:HD22	2.51	0.46
28:BD:54:ARG:HG2	28:BD:220:HIS:O	2.15	0.46
25:BA:2597:G:O4'	28:BD:242:ARG:CZ	2.63	0.46
28:BD:257:LEU:HD23	28:BD:257:LEU:HA	1.82	0.46
25:BA:1656:C:H4'	29:BE:136:ARG:CZ	2.45	0.46
29:BE:71:GLY:O	29:BE:72:VAL:CG1	2.62	0.46
30:BF:192:LEU:HD13	30:BF:193:VAL:N	2.31	0.46
30:BF:208:GLY:O	30:BF:209:GLU:CG	2.64	0.46
30:BF:25:PRO:HG2	30:BF:26:ALA:H	1.81	0.46
31:BG:39:ILE:HG13	31:BG:157:ILE:CD1	2.46	0.46
31:BG:93:THR:O	31:BG:93:THR:HG22	2.15	0.46
32:BH:144:VAL:O	32:BH:147:ASN:CB	2.52	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:107:VAL:CG2	32:BH:160:LYS:HD3	2.35	0.46
32:BH:89:ILE:HG22	32:BH:131:VAL:HG13	1.93	0.46
33:BK:31:LEU:C	33:BK:33:ARG:HG2	2.35	0.46
35:BM:39:ARG:CB	35:BM:48:MET:CE	2.88	0.46
35:BM:60:ILE:CG2	35:BM:61:ARG:N	2.79	0.46
35:BM:88:GLU:N	35:BM:89:LYS:NZ	2.64	0.46
35:BM:95:PRO:O	35:BM:98:VAL:CB	2.64	0.46
36:BN:18:LYS:HZ3	36:BN:20:MET:HE2	1.81	0.46
37:BO:122:PRO:HB3	37:BO:137:LYS:CB	2.45	0.46
39:BQ:61:HIS:C	39:BQ:64:ARG:NH1	2.68	0.46
39:BQ:82:GLU:O	39:BQ:83:ILE:HD13	2.15	0.46
40:BR:47:THR:CG2	40:BR:48:LEU:H	2.28	0.46
40:BR:70:GLY:O	40:BR:72:ALA:N	2.49	0.46
41:BS:2:ASN:ND2	41:BS:3:ARG:HE	2.12	0.46
41:BS:32:TYR:HA	41:BS:87:ASP:O	2.15	0.46
42:BT:89:GLU:CD	43:BU:52:VAL:H	2.19	0.46
46:BX:39:VAL:O	46:BX:39:VAL:CG1	2.64	0.46
47:BY:68:PRO:CG	47:BY:131:ARG:NH1	2.78	0.46
47:BY:139:VAL:CG2	47:BY:155:LEU:O	2.64	0.46
47:BY:3:TYR:HB3	47:BY:61:LEU:HB2	1.97	0.46
47:BY:78:LYS:HZ2	47:BY:78:LYS:HB3	1.78	0.46
47:BY:29:TYR:O	47:BY:89:PHE:CD2	2.68	0.46
48:BZ:23:VAL:CG2	48:BZ:44:ARG:HH12	2.27	0.46
48:BZ:52:GLY:O	48:BZ:60:PHE:CD2	2.69	0.46
25:BA:1067:A:C8	25:BA:1068:G:N7	2.84	0.46
25:BA:1078:U:OP1	47:BY:112:ARG:HD3	2.16	0.46
34:BL:103:GLN:CA	34:BL:106:GLU:CG	2.93	0.46
34:BL:94:GLU:O	34:BL:95:LYS:C	2.54	0.46
32:BH:25:LYS:CE	32:BH:27:LYS:HG2	2.43	0.46
1:AA:838:G:H2'	1:AA:841:U:H5''	1.97	0.46
1:AA:843:U:C2'	1:AA:848:C:OP1	2.64	0.46
1:AA:216:G:N2	1:AA:217:C:C2	2.84	0.46
9:AI:32:ASN:HD22	9:AI:32:ASN:N	2.14	0.46
1:AA:723:U:C6	1:AA:723:U:O5'	2.68	0.46
1:AA:1060:C:H5'	13:AM:51:ARG:O	2.15	0.46
1:AA:1309:G:C6	1:AA:1329:A:N1	2.83	0.46
1:AA:131:C:C4	1:AA:232:G:N1	2.84	0.46
1:AA:1381:U:C2	1:AA:1382:C:C6	3.03	0.46
1:AA:1386:G:C2'	1:AA:1387:G:O5'	2.64	0.46
1:AA:1423:G:C4	1:AA:1424:C:C6	3.03	0.46
1:AA:1428:A:C2	1:AA:1429:C:N3	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1449:C:C2	1:AA:1455:G:C2	3.04	0.46
1:AA:174:C:C2	1:AA:175:C:H5	2.34	0.46
1:AA:183:G:O2'	1:AA:224:C:C1'	2.63	0.46
1:AA:20:U:H5'	1:AA:572:A:N6	2.30	0.46
1:AA:338:A:C5	1:AA:339:C:C5	3.04	0.46
1:AA:338:A:C4	1:AA:339:C:C5	3.03	0.46
1:AA:407:G:C2'	1:AA:408:A:O5'	2.63	0.46
1:AA:644:G:N7	1:AA:645:C:C5	2.84	0.46
1:AA:887:G:N7	1:AA:888:G:N7	2.63	0.46
1:AA:900:A:H2'	1:AA:901:A:O5'	2.15	0.46
1:AA:980:C:C5	1:AA:981:U:N3	2.83	0.46
5:AE:19:HIS:NE2	5:AE:204:ASN:ND2	2.62	0.46
5:AE:207:ALA:O	5:AE:210:SER:N	2.48	0.46
5:AE:78:GLN:CD	5:AE:96:ARG:HH12	2.19	0.46
6:AF:172:ARG:HH12	6:AF:174:PRO:CD	2.29	0.46
6:AF:23:TYR:O	6:AF:24:ALA:CB	2.64	0.46
6:AF:69:HIS:ND1	6:AF:104:GLN:HB2	2.30	0.46
7:AG:78:LEU:CD2	7:AG:96:LEU:HD22	2.44	0.46
8:AH:88:LYS:CB	8:AH:123:LEU:O	2.64	0.46
8:AH:96:PRO:O	8:AH:117:ASP:HB3	2.15	0.46
9:AI:2:ARG:HD2	9:AI:69:GLU:CB	2.44	0.46
1:AA:1346:A:N3	10:AJ:10:ARG:NH2	2.64	0.46
11:AK:26:VAL:CA	11:AK:58:TYR:HE1	2.29	0.46
12:AL:78:LYS:CE	12:AL:101:PHE:HE2	2.28	0.46
12:AL:20:ARG:O	12:AL:60:ASP:HB2	2.16	0.46
13:AM:54:PHE:CZ	13:AM:55:LYS:HG2	2.51	0.46
14:AN:54:ARG:HH11	14:AN:54:ARG:CG	2.11	0.46
15:AO:53:ARG:CG	15:AO:53:ARG:HH11	2.28	0.46
18:AR:77:ARG:O	18:AR:78:TYR:C	2.54	0.46
18:AR:70:LEU:HD11	18:AR:78:TYR:H	1.79	0.46
19:AS:19:ILE:HB	19:AS:37:GLY:C	2.35	0.46
1:AA:127:G:O2'	20:AT:2:PRO:N	2.44	0.46
9:AI:49:ALA:HB3	21:AU:80:PRO:HD3	1.98	0.46
23:AW:64:ASP:O	23:AW:65:LYS:C	2.54	0.46
24:AX:3:LYS:O	24:AX:14:TRP:HE3	1.99	0.46
51:B3:47:GLN:HA	51:B3:52:THR:HB	1.91	0.46
53:B5:19:ARG:NH2	53:B5:47:THR:OG1	2.49	0.46
54:B6:25:PRO:CA	54:B6:28:ARG:HH21	2.28	0.46
25:BA:1183:G:O2'	25:BA:1184:G:OP2	2.32	0.46
25:BA:1296:G:N2	25:BA:1645:G:C4	2.84	0.46
25:BA:1306:C:O2'	25:BA:1307:A:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1353:A:C6	25:BA:1378:A:C4	3.04	0.46
25:BA:1307:A:C4'	25:BA:1379:A:N6	2.56	0.46
25:BA:1403:C:H2'	25:BA:1404:C:O5'	2.16	0.46
25:BA:1412:A:C6	25:BA:1591:G:C6	3.04	0.46
25:BA:141(A):C:O2'	25:BA:142:G:H5'	2.16	0.46
25:BA:1403:C:H4'	25:BA:1471:A:H5'	1.97	0.46
25:BA:1483:G:H1'	25:BA:1507:A:N1	2.28	0.46
25:BA:1520:U:H2'	25:BA:1521:G:C5'	2.41	0.46
25:BA:1528:A:H8	25:BA:1529:A:N3	2.13	0.46
25:BA:1449:A:N9	25:BA:1529:A:C2	2.84	0.46
25:BA:1542:G:C1'	25:BA:1543:A:N6	2.63	0.46
25:BA:1585:C:C4'	25:BA:1586:A:OP1	2.63	0.46
25:BA:1651:G:C2	25:BA:1652:A:N7	2.83	0.46
25:BA:1707:G:C2	25:BA:1708:C:C4	3.03	0.46
25:BA:172:C:O5'	25:BA:172:C:H6	1.98	0.46
25:BA:740:U:C1'	25:BA:1784:A:C8	2.98	0.46
25:BA:1790:C:H2'	25:BA:1790:C:O2	2.14	0.46
25:BA:182:A:C2	25:BA:183:C:C2	3.03	0.46
25:BA:1904:G:C2	25:BA:1905:C:N1	2.83	0.46
25:BA:1935:G:H3'	25:BA:1962:C:H42	1.81	0.46
25:BA:1967:C:N3	25:BA:1968:G:N3	2.63	0.46
25:BA:197:A:O4'	25:BA:2068:U:O2	2.33	0.46
25:BA:2003:G:C2'	25:BA:2004:G:O5'	2.64	0.46
25:BA:2034:U:H2'	25:BA:2034:U:O2	2.13	0.46
25:BA:2144:U:OP2	25:BA:2144:U:H6	1.99	0.46
25:BA:2173:A:H8	25:BA:2173:A:P	2.39	0.46
25:BA:2353:G:C2'	48:BZ:35:ASN:ND2	2.79	0.46
25:BA:2462:U:C2	25:BA:2463:C:C6	3.04	0.46
25:BA:1952:A:C1'	25:BA:2560:C:O2'	2.45	0.46
25:BA:2570:G:H3'	25:BA:2571:C:C5	2.51	0.46
25:BA:2711:A:OP2	25:BA:2712(A):A:OP2	2.34	0.46
25:BA:2716:U:H2'	25:BA:2717:G:C8	2.51	0.46
25:BA:527:C:H41	25:BA:2779:U:H3'	1.80	0.46
25:BA:80:G:C4'	25:BA:347:A:H62	2.28	0.46
25:BA:376:C:H2'	25:BA:377:C:C6	2.51	0.46
25:BA:413:C:N4	25:BA:414:C:N4	2.64	0.46
25:BA:479:A:HO2'	25:BA:480:A:P	2.39	0.46
25:BA:501:A:C6	25:BA:502:A:N1	2.84	0.46
25:BA:589:C:H2'	25:BA:590:A:H8	1.81	0.46
25:BA:607:U:C6	25:BA:607:U:C5'	2.99	0.46
25:BA:629:G:N2	25:BA:640:C:OP1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:658:C:O2'	30:BF:102:PRO:HG2	2.15	0.46
25:BA:681:G:H2'	25:BA:682:G:C8	2.51	0.46
25:BA:722:A:C2	25:BA:723:G:C8	3.04	0.46
25:BA:784:A:O4'	28:BD:227:ASN:OD1	2.33	0.46
25:BA:849:A:C2	25:BA:931:G:N2	2.83	0.46
26:BB:30:C:C4'	26:BB:58:A:H2	2.28	0.46
26:BB:40:U:C3'	26:BB:41:U:H5'	2.46	0.46
26:BB:53:A:C4	26:BB:54:G:C8	3.03	0.46
26:BB:83:G:N2	26:BB:84:C:C2	2.84	0.46
27:BC:110:PHE:O	27:BC:136:LEU:HD23	2.15	0.46
27:BC:190:ARG:CB	27:BC:190:ARG:HH11	2.27	0.46
25:BA:1860:G:O2'	27:BC:205:LYS:HG3	2.16	0.46
27:BC:75:LEU:HD21	27:BC:99:ILE:HG23	1.97	0.46
28:BD:106:ILE:HD12	28:BD:108:PRO:CG	2.45	0.46
28:BD:112:GLN:O	28:BD:113:VAL:C	2.54	0.46
28:BD:75:ILE:C	28:BD:118:VAL:HG13	2.36	0.46
25:BA:1820:U:C5	28:BD:159:ALA:O	2.68	0.46
28:BD:234:GLY:N	28:BD:241:PRO:HG2	2.31	0.46
29:BE:102:VAL:HG12	29:BE:172:VAL:CG1	2.42	0.46
29:BE:128:SER:C	29:BE:130:GLY:H	2.18	0.46
29:BE:15:PHE:CD1	29:BE:16:ARG:HG3	2.50	0.46
29:BE:23:VAL:CG2	29:BE:186:GLY:H	2.23	0.46
29:BE:188:VAL:HG12	29:BE:191:PRO:O	2.16	0.46
29:BE:200:GLU:C	29:BE:202:LYS:HE2	2.36	0.46
29:BE:38:THR:HA	29:BE:41:LYS:O	2.16	0.46
29:BE:54:GLN:CB	29:BE:57:LYS:HG3	2.43	0.46
29:BE:64:LYS:C	29:BE:66:HIS:H	2.18	0.46
30:BF:34:TRP:O	30:BF:37:VAL:CB	2.63	0.46
31:BG:110:ALA:O	31:BG:111:LEU:O	2.34	0.46
31:BG:134:GLY:HA3	31:BG:156:ASP:HB2	1.98	0.46
31:BG:27:ASN:O	31:BG:28:VAL:C	2.54	0.46
32:BH:137:ASP:OD2	32:BH:140:LYS:CD	2.64	0.46
33:BK:10:GLU:C	33:BK:11:ASN:CG	2.75	0.46
35:BM:39:ARG:CB	35:BM:40:PRO:CD	2.94	0.46
35:BM:23:LEU:CD2	35:BM:62:VAL:HA	2.45	0.46
36:BN:64:ARG:CZ	36:BN:67:LYS:C	2.84	0.46
36:BN:79:PHE:HE1	41:BS:65:LYS:NZ	2.13	0.46
36:BN:97:ARG:NH1	36:BN:98:VAL:HG22	2.31	0.46
37:BO:122:PRO:HG2	37:BO:124:LYS:HZ3	1.81	0.46
38:BP:128:LYS:O	38:BP:129:THR:HG23	2.16	0.46
38:BP:32:TYR:N	38:BP:32:TYR:CD1	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:34:LEU:HD13	38:BP:67:ARG:HH21	1.79	0.46
38:BP:56:ARG:CZ	38:BP:57:HIS:CB	2.88	0.46
38:BP:75:THR:HG23	38:BP:91:GLU:CD	2.36	0.46
39:BQ:53:HIS:O	39:BQ:56:LYS:HG3	2.16	0.46
40:BR:51:ALA:HA	40:BR:73:LEU:HG	1.96	0.46
41:BS:54:ARG:HG3	41:BS:101:PHE:CD2	2.51	0.46
41:BS:31:SER:OG	41:BS:49:VAL:HA	2.16	0.46
41:BS:53:ARG:HH22	41:BS:103:ARG:H	1.60	0.46
41:BS:99:LEU:O	41:BS:100:TYR:O	2.32	0.46
42:BT:99:ALA:CB	42:BT:106:PHE:CG	2.97	0.46
42:BT:88:ILE:CD1	43:BU:52:VAL:HG22	2.46	0.46
42:BT:98:LEU:CD1	42:BT:105:VAL:HG11	2.45	0.46
44:BV:87:PRO:O	44:BV:87:PRO:HG2	2.16	0.46
45:BW:14:SER:HB2	45:BW:16:LYS:CE	2.39	0.46
45:BW:31:HIS:CD2	45:BW:31:HIS:C	2.89	0.46
46:BX:32:PRO:O	46:BX:34:LYS:HG3	2.15	0.46
46:BX:33:LYS:HB3	46:BX:35:TYR:CE2	2.48	0.46
47:BY:153:SER:CA	47:BY:168:GLU:HB2	2.46	0.46
48:BZ:21:LEU:HG	48:BZ:39:ARG:C	2.25	0.46
33:BK:60:GLU:O	33:BK:63:ALA:N	2.49	0.46
33:BK:87:LYS:HG2	33:BK:122:GLU:CA	2.46	0.46
34:BL:18:THR:HG22	34:BL:38:VAL:HG21	1.94	0.46
25:BA:1060:U:OP1	34:BL:74:ALA:N	2.48	0.46
1:AA:1004:A:C4'	1:AA:1005:A:OP1	2.61	0.46
1:AA:848:C:O2'	1:AA:849:C:H5'	2.16	0.46
1:AA:82:U:H2'	1:AA:85:U:C5	2.50	0.46
1:AA:86:U:C2'	1:AA:87:A:H5'	2.45	0.46
1:AA:90:C:N3	1:AA:91:C:C5	2.84	0.46
1:AA:1007:C:N1	1:AA:1023:G:N2	2.64	0.46
25:BA:2670:A:C8	25:BA:2670:A:H5''	2.51	0.46
4:A1:14:A:H2'	4:A1:14:A:N3	2.31	0.46
1:AA:107:G:OP1	1:AA:108:G:OP2	2.34	0.46
1:AA:1084:G:O2'	1:AA:1085:U:OP1	2.29	0.46
1:AA:1091:U:C4	1:AA:1093:A:OP2	2.68	0.46
1:AA:60:A:N6	1:AA:110:C:N4	2.62	0.46
1:AA:977:A:N6	1:AA:1224:G:P	2.89	0.46
1:AA:1344:C:O2'	1:AA:1349:A:C5'	2.64	0.46
1:AA:1381:U:H2'	1:AA:1382:C:C5'	2.46	0.46
1:AA:148:G:C2'	1:AA:149:A:H5'	2.46	0.46
1:AA:1506:U:C3'	1:AA:1507:A:C5'	2.93	0.46
1:AA:195:A:C2'	1:AA:222:U:O2'	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:234:C:N3	1:AA:235:C:C5	2.84	0.46
1:AA:278:G:H4'	1:AA:282:A:H1'	1.98	0.46
1:AA:355:C:O4'	1:AA:388:G:H2'	2.15	0.46
1:AA:389:A:N3	1:AA:390:C:O4'	2.49	0.46
1:AA:414:A:C5	1:AA:415:A:N7	2.84	0.46
1:AA:597:G:N9	1:AA:644:G:N2	2.64	0.46
1:AA:675:A:C2	1:AA:676:A:C4	3.03	0.46
1:AA:693:G:O2'	1:AA:694:A:H5'	2.16	0.46
1:AA:69:G:N3	1:AA:73:G:C8	2.84	0.46
1:AA:578:C:HO2'	1:AA:728:A:H2'	1.81	0.46
1:AA:780:A:H1'	1:AA:802:A:H61	1.80	0.46
1:AA:928:G:O3'	1:AA:1533:C:H1'	2.15	0.46
1:AA:969:A:N1	1:AA:970:C:C4	2.84	0.46
2:AC:21:A:O5'	2:AC:21:A:H8	1.99	0.46
2:AC:60:U:OP2	2:AC:60:U:O4'	2.34	0.46
3:AD:76:A:N9	25:BA:2432:A:H1'	2.31	0.46
5:AE:145:LEU:O	5:AE:149:LEU:CB	2.57	0.46
5:AE:31:TYR:CD1	5:AE:31:TYR:N	2.83	0.46
6:AF:15:THR:O	6:AF:16:ARG:O	2.34	0.46
6:AF:204:LEU:O	6:AF:205:GLY:C	2.52	0.46
6:AF:21:ARG:NH2	6:AF:54:ARG:NH2	2.64	0.46
7:AG:208:SER:O	7:AG:209:ARG:HD2	2.14	0.46
7:AG:60:GLU:O	7:AG:61:LYS:C	2.53	0.46
7:AG:92:VAL:C	7:AG:96:LEU:HD12	2.35	0.46
7:AG:96:LEU:O	7:AG:97:LEU:C	2.53	0.46
7:AG:68:TYR:CE2	7:AG:97:LEU:HB3	2.44	0.46
9:AI:50:TYR:CE2	9:AI:52:ILE:HG13	2.51	0.46
11:AK:126:LYS:CD	11:AK:126:LYS:C	2.82	0.46
11:AK:44:PHE:H	11:AK:64:LYS:HZ3	1.64	0.46
11:AK:96:GLY:N	11:AK:99:GLU:OE2	2.49	0.46
12:AL:2:GLU:O	12:AL:20:ARG:HG2	2.16	0.46
12:AL:9:ARG:HD2	12:AL:14:VAL:CG2	2.40	0.46
13:AM:5:ARG:CG	13:AM:5:ARG:HH11	2.28	0.46
13:AM:60:ARG:HB3	13:AM:61:GLU:H	1.54	0.46
1:AA:676:A:H5''	14:AN:113:PRO:HB2	1.97	0.46
14:AN:22:HIS:ND1	14:AN:29:ILE:HD11	2.30	0.46
15:AO:76:ASN:O	15:AO:77:LEU:HB2	2.16	0.46
1:AA:1229:A:N6	16:AP:105:THR:HG21	2.31	0.46
16:AP:66:LEU:HA	16:AP:70:LEU:HB2	1.98	0.46
16:AP:73:GLU:C	16:AP:73:GLU:CD	2.74	0.46
18:AR:35:ARG:CZ	18:AR:59:MET:HG3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:60:VAL:HA	18:AR:63:ARG:CD	2.39	0.46
19:AS:57:ARG:O	19:AS:58:TYR:C	2.50	0.46
21:AU:16:PRO:HB3	21:AU:54:ARG:NH1	2.30	0.46
22:AV:13:ASP:OD1	22:AV:17:GLU:N	2.48	0.46
22:AV:19:VAL:CG1	22:AV:20:LEU:N	2.78	0.46
23:AW:52:ALA:HA	23:AW:55:ILE:CD1	2.46	0.46
50:B2:46:ASN:O	50:B2:49:LYS:HB3	2.16	0.46
51:B3:58:ARG:C	51:B3:62:ARG:CZ	2.84	0.46
53:B5:15:GLU:HA	53:B5:21:TYR:HA	1.98	0.46
53:B5:54:ILE:HD12	53:B5:54:ILE:O	2.16	0.46
54:B6:26:GLY:CA	54:B6:29:LYS:HD2	2.43	0.46
54:B6:42:LEU:HD23	54:B6:42:LEU:HA	1.74	0.46
56:B8:19:ARG:HD2	56:B8:24:TYR:CD1	2.51	0.46
25:BA:1005:C:H2'	25:BA:1006:C:C6	2.50	0.46
25:BA:1008:C:O2'	25:BA:1009:A:C5'	2.64	0.46
25:BA:9:U:H2'	25:BA:10:G:C5'	2.46	0.46
25:BA:111:A:C2	25:BA:112:U:C4	3.03	0.46
25:BA:1131:G:HO2'	25:BA:1132:A:P	2.37	0.46
25:BA:1000:A:H8	25:BA:1154:G:N2	2.09	0.46
25:BA:1181:C:H2'	25:BA:1182:A:C1'	2.46	0.46
25:BA:1225:C:OP1	43:BU:88:ARG:HB2	2.16	0.46
25:BA:1229:G:C6	25:BA:1230:C:N3	2.84	0.46
25:BA:1258:C:H2'	25:BA:1259:G:C8	2.50	0.46
25:BA:1358:G:H2'	25:BA:1371:G:H22	1.79	0.46
25:BA:1370:C:C5	25:BA:1371:G:N7	2.83	0.46
25:BA:1381:G:C5	25:BA:1382:G:C5	3.04	0.46
25:BA:1422:G:N2	25:BA:1423:G:N9	2.64	0.46
25:BA:1425:G:H2'	25:BA:1426:G:N9	2.31	0.46
25:BA:1534:G:HO2'	25:BA:1535:U:H5	1.57	0.46
25:BA:1670:C:C6	25:BA:1671:U:H5	2.32	0.46
25:BA:1675:C:O2	25:BA:1675:C:C2'	2.45	0.46
25:BA:1688:U:H3	25:BA:1700:A:H5''	1.80	0.46
25:BA:1697:G:C3'	25:BA:1698:A:H5''	2.37	0.46
25:BA:1718:G:C2'	25:BA:1725:G:H8	2.18	0.46
25:BA:1750:G:O2'	25:BA:1751:C:C5'	2.56	0.46
25:BA:1772:G:C2	25:BA:1980:G:C2	3.03	0.46
25:BA:1791:A:C2	25:BA:1829:A:H4'	2.50	0.46
25:BA:1804:C:H5'	28:BD:250:TRP:CH2	2.51	0.46
25:BA:1820:U:H5	28:BD:159:ALA:CB	2.29	0.46
25:BA:1668:A:C6	25:BA:1993:U:H1'	2.40	0.46
25:BA:2044:C:C2	25:BA:2625:G:C2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2056:G:C5	25:BA:2577:A:C4	3.03	0.46
25:BA:2103:C:C2	25:BA:2104:G:N7	2.84	0.46
25:BA:2135:A:H4'	25:BA:2136:C:H5	1.80	0.46
25:BA:2146:C:O5'	25:BA:2146:C:C6	2.69	0.46
25:BA:2209:C:C3'	25:BA:2209:C:C6	2.99	0.46
25:BA:224:G:C2	25:BA:225:A:C8	3.04	0.46
25:BA:2345:G:N7	25:BA:2371:G:C2	2.81	0.46
25:BA:2460:U:C5'	25:BA:2460:U:H6	2.27	0.46
25:BA:2497:A:C5'	25:BA:2497:A:C8	2.98	0.46
25:BA:2555:U:H3'	25:BA:2555:U:C6	2.51	0.46
25:BA:2639:A:H2'	25:BA:2640:G:C5'	2.46	0.46
25:BA:270(I):G:N2	25:BA:270(J):G:H1'	2.31	0.46
25:BA:2633:G:C5'	25:BA:2812:G:H5'	2.45	0.46
25:BA:2815:C:H2'	25:BA:2816:C:C6	2.48	0.46
25:BA:322:A:OP1	30:BF:168:ARG:NE	2.49	0.46
25:BA:351:G:O2'	25:BA:352:G:C8	2.55	0.46
25:BA:463:G:N2	25:BA:467:G:N7	2.64	0.46
25:BA:544:C:O2'	25:BA:545:G:H5'	2.16	0.46
25:BA:632:A:N6	25:BA:641:C:OP1	2.48	0.46
25:BA:696:G:HO2'	25:BA:697:C:P	2.38	0.46
25:BA:765:G:C5	25:BA:766:C:C5	3.03	0.46
25:BA:775:G:C5'	25:BA:777:A:C4	2.99	0.46
25:BA:827:U:H4'	25:BA:828:U:H3	1.80	0.46
25:BA:830:G:HO2'	25:BA:831:G:P	2.37	0.46
25:BA:931:G:O2'	50:B2:24:LYS:HE3	2.16	0.46
26:BB:24:G:N2	26:BB:27:C:H42	2.13	0.46
26:BB:53:A:C5	26:BB:54:G:N7	2.84	0.46
26:BB:57:A:O4'	31:BG:29:TRP:CE2	2.69	0.46
27:BC:49:ILE:CG1	27:BC:50:ASP:H	2.28	0.46
28:BD:96:HIS:ND1	28:BD:102:LYS:HG2	2.31	0.46
28:BD:202:LYS:C	28:BD:203:ASN:HD22	2.19	0.46
28:BD:268:ARG:C	28:BD:269:PHE:CD1	2.89	0.46
28:BD:26:LYS:O	28:BD:28:GLU:OE2	2.33	0.46
29:BE:111:ARG:CB	29:BE:161:GLY:CA	2.89	0.46
29:BE:49:LEU:HD22	29:BE:77:ILE:N	2.31	0.46
30:BF:9:ILE:CG1	30:BF:124:LEU:HD13	2.43	0.46
30:BF:140:LEU:HD23	30:BF:140:LEU:O	2.14	0.46
31:BG:15:VAL:CG2	31:BG:16:ARG:N	2.79	0.46
31:BG:56:ALA:HB3	31:BG:68:PRO:HB2	1.98	0.46
32:BH:163:TYR:O	32:BH:164:TYR:C	2.54	0.46
32:BH:41:MET:CE	32:BH:68:THR:HG1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BK:26:ALA:O	33:BK:27:ARG:O	2.33	0.46
36:BN:3:GLN:HB2	36:BN:6:THR:CB	2.46	0.46
36:BN:62:VAL:O	36:BN:63:VAL:CG2	2.62	0.46
36:BN:64:ARG:NH1	36:BN:67:LYS:CA	2.79	0.46
36:BN:77:ILE:C	36:BN:78:ARG:CZ	2.84	0.46
37:BO:122:PRO:HB2	37:BO:138:LEU:HB2	1.97	0.46
37:BO:35:HIS:HB2	37:BO:36:LYS:HE2	1.94	0.46
37:BO:49:ARG:HG2	55:B7:52:LYS:CG	2.40	0.46
38:BP:118:LEU:O	38:BP:121:ALA:N	2.48	0.46
38:BP:22:LYS:CG	38:BP:23:GLY:H	2.29	0.46
38:BP:46:GLN:O	38:BP:49:ALA:N	2.48	0.46
39:BQ:105:ARG:O	39:BQ:107:ASP:N	2.39	0.46
39:BQ:20:LEU:HD21	39:BQ:24:GLN:CG	2.45	0.46
40:BR:20:ARG:O	40:BR:21:THR:HG23	2.16	0.46
26:BB:48:A:OP1	40:BR:92:TYR:CD2	2.68	0.46
41:BS:109:GLU:HB2	41:BS:110:ILE:H	1.30	0.46
42:BT:36:ARG:O	42:BT:37:GLU:C	2.53	0.46
42:BT:54:LYS:CE	42:BT:54:LYS:H	2.29	0.46
25:BA:1151:G:O3'	42:BT:81:HIS:CE1	2.69	0.46
45:BW:90:GLU:O	45:BW:91:ALA:C	2.53	0.46
46:BX:42:VAL:N	46:BX:61:ILE:CG2	2.79	0.46
47:BY:50:GLN:HA	47:BY:50:GLN:OE1	2.16	0.46
48:BZ:36:ILE:HD12	48:BZ:60:PHE:HB3	1.97	0.46
48:BZ:62:LEU:O	48:BZ:62:LEU:HD23	2.16	0.46
26:BB:12:C:OP2	48:BZ:74:ARG:CG	2.64	0.46
33:BK:140:LEU:O	33:BK:140:LEU:HD12	2.15	0.46
33:BK:63:ALA:C	33:BK:67:ARG:HH21	2.19	0.46
25:BA:1096:A:C8	25:BA:1097:U:C6	3.04	0.46
26:BB:20:C:O5'	26:BB:20:C:H6	1.98	0.46
27:BC:1:PRO:C	27:BC:2:LYS:HG3	2.36	0.46
1:AA:1058:G:C2'	1:AA:1059:C:H5'	2.45	0.46
1:AA:106:C:H2'	1:AA:107:G:O5'	2.16	0.46
1:AA:1105:A:O2'	1:AA:1106:G:H5'	2.16	0.46
1:AA:1255:G:C6	1:AA:1279:A:C2	3.04	0.46
1:AA:1286:A:C3'	1:AA:1286:A:C8	2.99	0.46
1:AA:1299:A:C2'	1:AA:1300:G:O5'	2.64	0.46
1:AA:130:A:OP2	1:AA:189:U:C5	2.68	0.46
1:AA:1341:U:C6	1:AA:1341:U:C3'	2.98	0.46
1:AA:1387:G:C4	1:AA:1388:C:C5	3.04	0.46
1:AA:1464:G:C2	1:AA:1465:C:N4	2.82	0.46
1:AA:1475:G:H2'	1:AA:1476:G:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:236:G:C4	1:AA:237:C:C6	3.04	0.46
1:AA:345:C:O4'	1:AA:346:G:C2	2.69	0.46
1:AA:430:A:P	7:AG:9:CYS:H	2.39	0.46
1:AA:468:A:O3'	19:AS:80:PHE:O	2.34	0.46
1:AA:595:G:C8	1:AA:641:U:O4	2.69	0.46
1:AA:65:U:H2'	1:AA:381:C:H5	1.81	0.46
1:AA:766:A:N6	1:AA:767:A:C2	2.84	0.46
1:AA:798:G:N1	1:AA:799:G:C8	2.84	0.46
1:AA:892:A:N6	1:AA:907:A:C8	2.84	0.46
1:AA:907:A:C4	1:AA:908:A:N7	2.84	0.46
1:AA:969:A:OP1	1:AA:969:A:O4'	2.34	0.46
2:AC:61:C:H2'	2:AC:62:C:H6	1.81	0.46
3:AD:1:G:H2'	3:AD:2:C:H6	1.81	0.46
3:AD:4:G:C6	3:AD:70:G:C6	3.03	0.46
5:AE:193:ASP:O	5:AE:194:PRO:C	2.54	0.46
5:AE:21:ARG:HB2	5:AE:22:LYS:H	1.39	0.46
6:AF:31:HIS:ND1	6:AF:34:LEU:HD13	2.30	0.46
7:AG:114:ARG:CG	7:AG:114:ARG:HH11	2.29	0.46
7:AG:155:LEU:O	7:AG:158:ILE:N	2.49	0.46
7:AG:19:LEU:N	7:AG:33:MET:SD	2.89	0.46
10:AJ:79:ARG:NH2	10:AJ:84:ASN:CB	2.78	0.46
12:AL:5:TYR:CD2	12:AL:6:GLY:N	2.83	0.46
12:AL:5:TYR:CG	12:AL:18:PHE:CE2	3.04	0.46
1:AA:1151:A:N3	13:AM:39:PRO:HG3	2.31	0.46
13:AM:32:ALA:HA	13:AM:76:ASN:OD1	2.16	0.46
15:AO:71:PRO:HD2	15:AO:100:ILE:HG12	1.96	0.46
17:AQ:39:LEU:HD12	17:AQ:44:LEU:CD1	2.36	0.46
17:AQ:48:ALA:CA	17:AQ:53:LEU:HD12	2.46	0.46
18:AR:71:GLN:HB2	18:AR:78:TYR:CD1	2.51	0.46
19:AS:10:GLY:O	19:AS:11:SER:OG	2.31	0.46
20:AT:95:TYR:O	20:AT:98:LEU:CD2	2.64	0.46
21:AU:73:ALA:C	21:AU:79:LEU:HD21	2.36	0.46
9:AI:50:TYR:CE1	21:AU:81:PHE:CZ	3.03	0.46
23:AW:10:LEU:HD12	23:AW:11:SER:N	2.30	0.46
23:AW:79:ARG:HG3	23:AW:79:ARG:NH1	2.29	0.46
24:AX:6:ARG:CB	24:AX:6:ARG:HH11	2.29	0.46
49:B1:52:ILE:O	49:B1:56:LEU:HD13	2.15	0.46
53:B5:11:LEU:HD22	55:B7:35:GLN:CD	2.35	0.46
25:BA:1050:A:C2'	25:BA:1051:G:H5'	2.46	0.46
25:BA:989:G:H4'	25:BA:1157:G:C5'	2.46	0.46
25:BA:1288:U:C4'	25:BA:1289:C:OP2	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1340:U:H3'	25:BA:1340:U:H6	1.80	0.46
25:BA:1345:C:C2'	25:BA:1346:G:H5'	2.45	0.46
25:BA:1359:A:C4	25:BA:1373:A:N1	2.84	0.46
25:BA:1443:G:C2	25:BA:1444:G:H1'	2.50	0.46
25:BA:1487:G:C2'	25:BA:1488:G:H5'	2.46	0.46
25:BA:1581:G:C2'	25:BA:1582:C:C5'	2.94	0.46
25:BA:1668:A:H1'	25:BA:1669:A:C6	2.51	0.46
25:BA:1781:C:H2'	25:BA:2609:U:O4	2.16	0.46
25:BA:1826:G:OP1	28:BD:233:HIS:CD2	2.68	0.46
25:BA:1856:G:H2'	25:BA:1857:G:C5'	2.46	0.46
25:BA:1861:G:N2	25:BA:1862:G:N9	2.63	0.46
25:BA:1883:G:H5''	25:BA:1884:A:OP1	2.16	0.46
25:BA:2053:G:N3	25:BA:2053:G:H2'	2.31	0.46
25:BA:2134:A:C8	25:BA:2136:C:N4	2.84	0.46
25:BA:2164:C:H41	25:BA:2165:G:N2	2.14	0.46
25:BA:2195:C:O2'	25:BA:2196:C:C5'	2.49	0.46
25:BA:2226:C:N3	25:BA:2227:A:C4	2.83	0.46
25:BA:224:G:C2	25:BA:225:A:N9	2.84	0.46
25:BA:2280:G:C2	25:BA:2281:C:C6	3.04	0.46
25:BA:411:G:H1'	25:BA:2407:G:OP1	2.15	0.46
25:BA:2500:U:O2'	25:BA:2501:C:OP1	2.34	0.46
25:BA:2709:G:C2'	25:BA:2710:C:C5'	2.94	0.46
25:BA:2716:U:H2'	25:BA:2717:G:H8	1.81	0.46
25:BA:2754:U:H2'	25:BA:2756:U:OP2	2.16	0.46
25:BA:2824:C:C5	25:BA:2825:C:N1	2.84	0.46
25:BA:2826:A:N7	25:BA:2827:C:H5	2.11	0.46
25:BA:2844:G:C2	25:BA:2845:G:C8	3.04	0.46
25:BA:2848:G:C8	41:BS:99:LEU:CD1	2.90	0.46
25:BA:324:A:OP2	25:BA:613:U:O4	2.34	0.46
25:BA:309:G:C4	25:BA:330:A:C5	3.04	0.46
25:BA:386:G:C4'	25:BA:386:G:OP1	2.64	0.46
25:BA:410:G:C4	25:BA:411:G:N7	2.84	0.46
25:BA:266:G:N2	25:BA:427:U:C2	2.84	0.46
25:BA:451:C:H6	25:BA:451:C:H3'	1.81	0.46
25:BA:489:G:C8	25:BA:1284:A:N3	2.83	0.46
25:BA:496:G:C6	25:BA:497:A:C6	3.04	0.46
25:BA:502:A:H3'	25:BA:502:A:C8	2.51	0.46
25:BA:531:C:C6	25:BA:532:A:N3	2.84	0.46
25:BA:556:G:O2'	25:BA:557:U:H5'	2.16	0.46
25:BA:569:U:C4	25:BA:570:G:N1	2.84	0.46
25:BA:602:G:H2'	25:BA:655:A:N1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:724:U:C2'	25:BA:725:G:H5'	2.45	0.46
25:BA:740:U:O2	25:BA:1981:A:H2'	2.15	0.46
25:BA:795:C:O2'	25:BA:796:C:C5'	2.63	0.46
25:BA:586:A:C2	25:BA:809:G:N3	2.83	0.46
25:BA:86:C:C2	25:BA:87:C:C5	3.04	0.46
25:BA:951:C:H2'	25:BA:952:G:H8	1.80	0.46
25:BA:958:U:O2'	25:BA:959:A:O5'	2.34	0.46
27:BC:59:ARG:C	27:BC:199:HIS:HD2	2.19	0.46
27:BC:49:ILE:O	27:BC:50:ASP:CB	2.64	0.46
27:BC:59:ARG:NH1	27:BC:164:ARG:HD3	2.31	0.46
28:BD:181:GLU:CD	28:BD:270:ILE:CB	2.84	0.46
29:BE:133:LYS:CG	29:BE:137:HIS:CD2	2.99	0.46
25:BA:2787:C:O2'	29:BE:61:ARG:HD2	2.15	0.46
29:BE:49:LEU:CG	29:BE:74:PRO:CB	2.93	0.46
29:BE:36:ARG:CB	29:BE:79:ARG:HH11	2.29	0.46
29:BE:31:CYS:HA	29:BE:89:ASP:HA	1.97	0.46
29:BE:98:PRO:HB3	29:BE:175:VAL:HG13	1.97	0.46
30:BF:167:ALA:O	30:BF:173:VAL:HG21	2.16	0.46
30:BF:110:LEU:HD11	30:BF:181:LEU:HD23	1.98	0.46
31:BG:107:LEU:HG	31:BG:177:GLY:O	2.16	0.46
32:BH:37:VAL:HA	32:BH:41:MET:CE	2.46	0.46
32:BH:54:ARG:HH21	32:BH:65:HIS:CG	2.34	0.46
32:BH:7:LEU:CB	32:BH:51:ARG:HD3	2.46	0.46
33:BK:40:THR:C	33:BK:42:SER:N	2.65	0.46
33:BK:9:LEU:HA	33:BK:17:GLN:CD	2.35	0.46
35:BM:7:LYS:HZ3	35:BM:10:GLU:HB3	1.81	0.46
35:BM:135:PRO:O	35:BM:136:GLU:O	2.34	0.46
35:BM:15:LEU:HA	35:BM:53:VAL:O	2.16	0.46
25:BA:1131:G:O4'	35:BM:82:LEU:HG	2.16	0.46
36:BN:37:ASP:OD1	36:BN:37:ASP:N	2.48	0.46
37:BO:65:ARG:CZ	37:BO:68:GLN:CD	2.84	0.46
37:BO:96:THR:O	37:BO:102:ARG:CD	2.64	0.46
38:BP:13:GLN:HA	38:BP:13:GLN:NE2	2.31	0.46
38:BP:61:GLY:C	47:BY:177:PRO:HA	2.36	0.46
38:BP:6:ARG:CG	38:BP:70:PRO:CB	2.93	0.46
38:BP:80:GLU:OE1	38:BP:81:VAL:N	2.48	0.46
38:BP:85:LYS:HZ2	48:BZ:10:THR:CG2	2.28	0.46
25:BA:2690:C:N4	39:BQ:14:SER:CB	2.79	0.46
40:BR:57:LYS:NZ	40:BR:62:LYS:CG	2.78	0.46
25:BA:2377:A:H2	40:BR:87:PHE:CE2	2.34	0.46
42:BT:104:GLN:O	42:BT:105:VAL:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BW:18:TYR:O	45:BW:19:ALA:C	2.54	0.46
46:BX:94:LYS:C	46:BX:95:LYS:O	2.55	0.46
47:BY:43:GLU:C	47:BY:45:ASP:N	2.66	0.46
48:BZ:36:ILE:HG13	48:BZ:37:LEU:H	1.78	0.46
34:BL:131:ALA:O	34:BL:136:VAL:HB	2.16	0.46
34:BL:132:ARG:NH2	34:BL:138:VAL:HG11	2.16	0.46
1:AA:1002:G:N3	1:AA:1002:G:H2'	2.31	0.46
26:BB:2:C:C2	26:BB:3:C:C5	3.04	0.46
1:AA:748:C:O2'	1:AA:749:C:H6	1.99	0.46
1:AA:1011:G:H2'	1:AA:1012:U:H5'	1.96	0.46
3:AD:26:A:N3	3:AD:26:A:H2'	2.31	0.46
1:AA:1108:G:C8	1:AA:1109:C:C5	3.04	0.45
1:AA:109:A:OP2	1:AA:111:G:O6	2.35	0.45
1:AA:1138:G:C5	1:AA:1140:C:C6	3.04	0.45
1:AA:1184:G:C6	1:AA:1185:G:O6	2.69	0.45
1:AA:1049:U:O4'	1:AA:1201:A:H5''	2.15	0.45
1:AA:979:C:OP1	1:AA:1222:G:O6	2.34	0.45
1:AA:1238:A:N3	1:AA:1241:G:H1'	2.31	0.45
1:AA:1256:A:N6	1:AA:1278:U:H2'	2.11	0.45
1:AA:1275:A:C2	1:AA:1283:G:H5'	2.51	0.45
1:AA:1476:G:H2'	1:AA:1477:C:C6	2.50	0.45
1:AA:1507:A:H2	1:AA:1530:G:O4'	1.99	0.45
1:AA:168:G:C6	1:AA:169:C:N4	2.84	0.45
1:AA:190:G:H5''	1:AA:191(A):G:H8	1.80	0.45
1:AA:269:C:H2'	1:AA:270:A:H8	1.80	0.45
1:AA:280:C:H1'	20:AT:38:ARG:CG	2.46	0.45
1:AA:448:A:O2'	1:AA:449:C:H5'	2.16	0.45
1:AA:467:G:OP2	1:AA:467:G:H3'	2.17	0.45
1:AA:528:C:O5'	1:AA:535:A:N6	2.49	0.45
1:AA:555:C:H5''	1:AA:556:C:OP2	2.16	0.45
1:AA:560:U:C2'	1:AA:561:U:OP2	2.63	0.45
1:AA:611:A:N1	1:AA:629:G:C2	2.84	0.45
1:AA:728:A:H8	18:AR:54:ARG:NH2	2.13	0.45
1:AA:900:A:C2'	1:AA:901:A:O5'	2.64	0.45
1:AA:965:A:O2'	1:AA:966:G:O5'	2.33	0.45
1:AA:977:A:H2'	1:AA:977:A:N3	2.31	0.45
2:AC:60:U:H5''	2:AC:61:C:C6	2.51	0.45
2:AC:9:G:O4'	2:AC:46:G:H1'	2.16	0.45
3:AD:32:C:C2'	3:AD:33:U:H5'	2.46	0.45
6:AF:101:LEU:O	6:AF:101:LEU:CD2	2.64	0.45
6:AF:130:VAL:HA	6:AF:133:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:139:GLN:O	6:AF:143:GLU:CB	2.63	0.45
6:AF:110:ASN:HD21	6:AF:140:ARG:CG	2.28	0.45
1:AA:1107:C:OP1	6:AF:174:PRO:HD3	2.15	0.45
6:AF:113:ALA:CA	6:AF:202:ILE:HD11	2.46	0.45
6:AF:37:GLN:C	6:AF:39:ILE:N	2.68	0.45
6:AF:58:GLU:O	6:AF:59:ARG:CZ	2.65	0.45
6:AF:6:HIS:HB3	17:AQ:49:HIS:ND1	2.25	0.45
7:AG:11:LEU:N	7:AG:11:LEU:HD23	2.31	0.45
7:AG:101:LEU:HB3	7:AG:138:TYR:O	2.16	0.45
10:AJ:68:ASN:HD22	10:AJ:128:ALA:HA	1.81	0.45
10:AJ:64:GLN:HG3	10:AJ:128:ALA:C	2.34	0.45
11:AK:100:ILE:CD1	11:AK:100:ILE:H	2.16	0.45
11:AK:109:ILE:HG12	11:AK:137:VAL:CA	2.46	0.45
12:AL:69:GLY:O	12:AL:73:GLN:HG3	2.16	0.45
14:AN:20:TYR:HB2	14:AN:31:THR:HB	1.98	0.45
14:AN:27:ASN:ND2	14:AN:55:LYS:HZ2	2.15	0.45
14:AN:66:LEU:O	14:AN:70:LYS:HD2	2.16	0.45
14:AN:21:ILE:HD12	14:AN:95:ILE:HG12	1.98	0.45
16:AP:48:LEU:HD22	16:AP:53:VAL:HG22	1.97	0.45
19:AS:16:HIS:HE1	19:AS:42:ARG:HH22	1.63	0.45
1:AA:376:G:OP1	19:AS:6:LEU:CD1	2.63	0.45
20:AT:20:THR:O	20:AT:21:VAL:HG13	2.15	0.45
21:AU:30:ASP:OD2	21:AU:32:ARG:HB2	2.16	0.45
21:AU:58:LEU:C	21:AU:62:GLU:HB2	2.37	0.45
21:AU:69:THR:C	21:AU:71:LYS:N	2.66	0.45
23:AW:38:LYS:O	23:AW:39:LYS:C	2.54	0.45
52:B4:58:LEU:O	52:B4:58:LEU:CD1	2.61	0.45
25:BA:2017:U:O2'	52:B4:8:LYS:O	2.34	0.45
54:B6:41:ARG:HG3	54:B6:42:LEU:H	1.82	0.45
25:BA:1177:A:O2'	25:BA:1178:C:O5'	2.33	0.45
25:BA:1248:G:N1	30:BF:52:LYS:NZ	2.64	0.45
25:BA:1251:C:O5'	42:BT:10:ARG:HD3	2.16	0.45
25:BA:1345:C:O2	25:BA:1346:G:C8	2.69	0.45
25:BA:1355:G:C6	25:BA:1377:G:C2	3.04	0.45
25:BA:1459:G:O6	25:BA:1461:G:C4	2.69	0.45
25:BA:1484:G:H2'	25:BA:1485:G:O4'	2.16	0.45
25:BA:1542:G:O4'	25:BA:1542:G:N3	2.49	0.45
25:BA:1348:G:N2	25:BA:1599:C:C2	2.84	0.45
25:BA:1613:G:H1'	54:B6:3:ARG:HD2	1.98	0.45
25:BA:163:U:C6	25:BA:163:U:OP2	2.68	0.45
25:BA:1679:U:C5	25:BA:1680:U:C4	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1747:G:C6	25:BA:1748:G:N7	2.84	0.45
25:BA:176:G:O2'	25:BA:177:G:H5'	2.16	0.45
25:BA:1803:A:O2'	28:BD:257:LEU:CD1	2.64	0.45
25:BA:1818:U:C6	25:BA:1818:U:O5'	2.69	0.45
25:BA:1860:G:H2'	25:BA:1861:G:H8	1.80	0.45
25:BA:1838:C:N4	25:BA:1899:G:O5'	2.49	0.45
25:BA:1973:G:H2'	25:BA:1974:C:C6	2.51	0.45
25:BA:197:A:C5	25:BA:2430:A:C8	3.04	0.45
25:BA:2057:A:C5	25:BA:2058:A:C5	3.04	0.45
25:BA:2087:G:C6	25:BA:2233:U:C2	3.04	0.45
25:BA:2160:G:C2	25:BA:2161:C:C2	3.04	0.45
25:BA:2355:C:C4	25:BA:2356:C:C4	3.04	0.45
25:BA:2409:G:C2	25:BA:2410:G:N9	2.84	0.45
25:BA:2423:U:C2'	25:BA:2423:U:O2	2.63	0.45
25:BA:2457:U:C2'	25:BA:2458:G:C5'	2.89	0.45
25:BA:2457:U:H2'	25:BA:2458:G:C5'	2.47	0.45
25:BA:2461:C:O2'	25:BA:2462:U:H5'	2.16	0.45
25:BA:2531:A:N3	25:BA:2532:G:C8	2.84	0.45
25:BA:2631:G:H4'	25:BA:2892:A:C4'	2.45	0.45
25:BA:2655:G:C2'	25:BA:2656:U:OP2	2.64	0.45
25:BA:270(B):A:C4'	25:BA:270(C):C:C5	2.98	0.45
25:BA:2767:C:H2'	25:BA:2768:C:C5'	2.46	0.45
25:BA:2805:G:H2'	25:BA:2807:G:H4'	1.93	0.45
25:BA:2810:A:H2'	25:BA:2811:G:C5'	2.46	0.45
25:BA:2847:U:OP1	41:BS:54:ARG:NH2	2.49	0.45
25:BA:2882:A:C2	25:BA:2883:A:C8	3.04	0.45
25:BA:308:G:N1	25:BA:309:G:C4	2.84	0.45
25:BA:476:G:C2	25:BA:478:A:H3'	2.51	0.45
25:BA:487:C:O5'	25:BA:487:C:H6	1.99	0.45
25:BA:59:U:H2'	25:BA:60:G:C4'	2.45	0.45
25:BA:740:U:C2'	25:BA:741:G:H8	2.29	0.45
25:BA:774:A:H5''	25:BA:778:G:C4'	2.46	0.45
25:BA:826:U:H3'	25:BA:828:U:C4	2.51	0.45
25:BA:984:A:P	25:BA:985:C:H41	2.37	0.45
25:BA:9:U:C2'	25:BA:10:G:H5'	2.46	0.45
26:BB:112:G:N1	26:BB:113:C:C4	2.84	0.45
27:BC:18:LYS:C	27:BC:20:TYR:H	2.19	0.45
27:BC:32:LEU:CD1	27:BC:220:PRO:HB2	2.37	0.45
27:BC:47:LEU:HD21	27:BC:49:ILE:CD1	2.47	0.45
28:BD:145:VAL:HB	28:BD:155:LEU:HD23	1.98	0.45
28:BD:177:LEU:O	28:BD:178:PRO:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:202:LYS:HD3	28:BD:202:LYS:H	1.81	0.45
28:BD:57:GLY:O	28:BD:216:GLY:O	2.34	0.45
28:BD:60:ARG:HB3	28:BD:62:TYR:HE2	1.77	0.45
28:BD:76:PRO:HA	28:BD:118:VAL:CG2	2.40	0.45
29:BE:105:THR:O	29:BE:196:VAL:CG1	2.49	0.45
29:BE:116:VAL:HG23	29:BE:137:HIS:O	2.15	0.45
29:BE:176:ILE:HG23	29:BE:176:ILE:O	2.16	0.45
25:BA:2632:A:C1'	29:BE:61:ARG:HH11	2.23	0.45
29:BE:53:PRO:CD	29:BE:74:PRO:HA	2.43	0.45
29:BE:44:TYR:HB3	29:BE:82:ARG:HH11	1.81	0.45
29:BE:81:ILE:CG2	29:BE:82:ARG:N	2.76	0.45
30:BF:158:THR:CG2	30:BF:160:ASN:ND2	2.78	0.45
30:BF:185:ASP:HA	30:BF:188:ARG:HH22	1.79	0.45
31:BG:139:LEU:C	31:BG:142:PRO:HD3	2.36	0.45
31:BG:37:VAL:HG22	31:BG:159:VAL:CB	2.46	0.45
31:BG:52:ILE:O	31:BG:55:LYS:HB2	2.16	0.45
31:BG:53:LEU:HD22	31:BG:70:VAL:HG13	1.98	0.45
32:BH:170:ARG:O	32:BH:171:LEU:CG	2.64	0.45
25:BA:2093:G:HO2'	33:BK:29:TYR:HB3	1.81	0.45
33:BK:21:VAL:HG11	33:BK:30:LEU:HD23	1.98	0.45
35:BM:22:THR:OG1	35:BM:25:ARG:CG	2.62	0.45
35:BM:23:LEU:HD23	35:BM:60:ILE:HG21	1.98	0.45
35:BM:74:ARG:O	35:BM:75:TYR:C	2.53	0.45
36:BN:14:THR:C	36:BN:16:ALA:N	2.70	0.45
36:BN:63:VAL:HG22	36:BN:82:ASN:CG	2.34	0.45
36:BN:78:ARG:N	36:BN:78:ARG:NH1	2.63	0.45
39:BQ:13:HIS:NE2	39:BQ:15:SER:HB3	2.31	0.45
39:BQ:28:LEU:HD22	39:BQ:28:LEU:O	2.16	0.45
25:BA:2840:C:C5'	39:BQ:53:HIS:CD2	2.74	0.45
40:BR:24:LEU:H	40:BR:86:ALA:CB	2.29	0.45
41:BS:54:ARG:HA	41:BS:100:TYR:CE2	2.50	0.45
42:BT:103:PRO:HG2	42:BT:104:GLN:H	1.81	0.45
42:BT:114:LYS:O	42:BT:117:GLN:HB2	2.15	0.45
42:BT:79:PHE:HE2	42:BT:106:PHE:CZ	2.33	0.45
25:BA:997:G:OP1	42:BT:93:LYS:CE	2.65	0.45
45:BW:57:LEU:O	45:BW:78:LYS:O	2.34	0.45
45:BW:54:VAL:CG2	45:BW:81:VAL:HG23	2.46	0.45
33:BK:57:ARG:CD	33:BK:61:ARG:NH2	2.77	0.45
33:BK:76:THR:HB	33:BK:141:LYS:CD	2.41	0.45
33:BK:87:LYS:CE	33:BK:121:LYS:N	2.79	0.45
25:BA:1091:G:N1	25:BA:1101:U:N3	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BL:27:LEU:CA	34:BL:32:ALA:HB3	2.46	0.45
1:AA:1001:G:H2'	1:AA:1002:G:O4'	2.16	0.45
1:AA:1026:G:N7	1:AA:1027:C:C6	2.84	0.45
1:AA:1032:A:N7	1:AA:1032(A):G:C4	2.84	0.45
1:AA:80:G:H2'	1:AA:81:G:C4'	2.46	0.45
1:AA:84:U:C4	1:AA:85:U:C4	3.04	0.45
2:AC:28:C:O2	2:AC:29:G:C8	2.70	0.45
26:BB:4:C:N3	26:BB:117:G:N2	2.64	0.45
1:AA:1007:C:O2'	1:AA:1008:C:C5'	2.63	0.45
1:AA:25:C:H5''	1:AA:524:G:H1'	1.97	0.45
25:BA:1040:C:OP2	25:BA:1040:C:H6	1.97	0.45
1:AA:104:G:C4	1:AA:105:G:C8	3.04	0.45
1:AA:1151:A:O2'	13:AM:70:ARG:NH2	2.49	0.45
1:AA:1290:G:C6	1:AA:1291:G:N7	2.84	0.45
1:AA:1300:G:HO2'	1:AA:1301:U:P	2.39	0.45
1:AA:1316:G:C2'	1:AA:1318:A:OP2	2.61	0.45
1:AA:1347:G:C8	12:AL:107:ARG:NE	2.84	0.45
1:AA:1347:G:H8	12:AL:107:ARG:NE	2.14	0.45
1:AA:1405:G:N1	1:AA:1406:U:H5	2.13	0.45
1:AA:1528:U:O2'	1:AA:1529:G:O5'	2.34	0.45
1:AA:293:G:N3	1:AA:293:G:C2'	2.76	0.45
1:AA:340:U:C2'	1:AA:341:C:H6	2.28	0.45
1:AA:487:A:H2'	1:AA:488:C:C5'	2.46	0.45
1:AA:519:C:C5	1:AA:520:A:C2	3.05	0.45
1:AA:560:U:C6	1:AA:566:G:N3	2.84	0.45
1:AA:768:A:N7	1:AA:769:G:C8	2.84	0.45
1:AA:828:A:N1	1:AA:859:A:C1'	2.79	0.45
1:AA:896:C:O2	1:AA:897:C:C6	2.69	0.45
2:AC:76:A:H3'	2:AC:76:A:C8	2.52	0.45
3:AD:20:U:O2	3:AD:20:U:C2'	2.61	0.45
3:AD:42:C:O2	3:AD:42:C:H2'	2.16	0.45
5:AE:169:LYS:HZ3	5:AE:170:GLU:HA	1.80	0.45
5:AE:41:ILE:N	5:AE:41:ILE:CD1	2.72	0.45
6:AF:31:HIS:O	6:AF:34:LEU:HD22	2.16	0.45
7:AG:122:ARG:CA	7:AG:134:ASP:HB2	2.34	0.45
7:AG:14:ARG:NH1	7:AG:59:ARG:HH21	2.15	0.45
7:AG:61:LYS:HZ1	7:AG:65:ARG:HD3	1.81	0.45
7:AG:65:ARG:HE	7:AG:72:GLU:N	2.14	0.45
8:AH:9:LYS:HE3	8:AH:112:LEU:HD23	1.99	0.45
9:AI:76:ALA:O	9:AI:80:ARG:CG	2.62	0.45
10:AJ:50:ILE:O	10:AJ:54:THR:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:102:ARG:HH21	11:AK:105:ARG:HD2	1.81	0.45
1:AA:642:A:C2	11:AK:113:SER:C	2.89	0.45
11:AK:1:MET:HG2	11:AK:2:LEU:N	2.27	0.45
12:AL:28:VAL:HG23	12:AL:32:ASP:C	2.36	0.45
14:AN:100:ALA:C	14:AN:102:GLY:N	2.70	0.45
14:AN:101:SER:O	14:AN:102:GLY:C	2.53	0.45
14:AN:102:GLY:O	14:AN:103:LEU:C	2.55	0.45
14:AN:67:ASP:OD1	14:AN:71:LYS:HD2	2.16	0.45
15:AO:33:ARG:HA	15:AO:33:ARG:NE	2.29	0.45
18:AR:62:GLN:CG	18:AR:66:LEU:HD21	2.43	0.45
19:AS:20:VAL:CG1	19:AS:32:TYR:HD2	2.28	0.45
19:AS:67:THR:HB	19:AS:70:ALA:CA	2.47	0.45
20:AT:20:THR:HA	20:AT:43:LEU:HD23	1.94	0.45
20:AT:50:LYS:HG2	20:AT:51:TYR:N	2.30	0.45
20:AT:84:LEU:HG	20:AT:85:VAL:H	1.81	0.45
22:AV:63:THR:O	22:AV:64:GLU:O	2.34	0.45
23:AW:65:LYS:O	23:AW:68:LYS:CG	2.64	0.45
23:AW:85:MET:H	23:AW:85:MET:HG2	1.60	0.45
24:AX:18:TYR:CG	24:AX:24:ARG:HD3	2.51	0.45
51:B3:62:ARG:HA	51:B3:65:ASP:OD1	2.17	0.45
54:B6:34:ARG:HH21	54:B6:42:LEU:HD23	1.80	0.45
25:BA:1309:G:C5'	54:B6:9:ARG:HG3	2.46	0.45
25:BA:1007:C:H3'	25:BA:1008:C:C5	2.52	0.45
25:BA:1007:C:H3'	25:BA:1008:C:C6	2.51	0.45
25:BA:1128:A:N7	25:BA:2518:A:N6	2.61	0.45
25:BA:1137:G:H8	25:BA:1137:G:O5'	1.99	0.45
25:BA:1143:A:N3	25:BA:1144:G:N9	2.64	0.45
25:BA:1154:G:OP2	42:BT:58:ARG:CD	2.64	0.45
25:BA:1165:U:H2'	25:BA:1166:C:C5	2.51	0.45
25:BA:1184:G:O2'	25:BA:1185:C:H5'	2.16	0.45
25:BA:1222:C:H2'	25:BA:1223:C:C5'	2.47	0.45
25:BA:1201:C:C4	25:BA:1245:G:N1	2.84	0.45
25:BA:1282:U:H2'	25:BA:1283:G:C8	2.52	0.45
25:BA:1487:G:C4	25:BA:1488:G:C8	3.05	0.45
25:BA:1515:C:C2'	25:BA:1516:U:OP1	2.64	0.45
25:BA:1525:G:C4	25:BA:1526:G:C8	3.05	0.45
25:BA:1537:C:N4	25:BA:1538:G:H1'	2.32	0.45
25:BA:1578:U:H3'	25:BA:1580:A:C2	2.52	0.45
25:BA:1582:C:C2	25:BA:1583:A:C5	3.04	0.45
25:BA:1418:G:C5'	25:BA:1587:A:O2'	2.55	0.45
25:BA:1661:G:H5'	25:BA:2712:U:O4	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:164:U:O2	25:BA:171:G:H4'	2.16	0.45
25:BA:1834:U:C1'	25:BA:1969:A:C2	2.99	0.45
1:AA:702:A:C2	25:BA:1848:A:C5	3.04	0.45
25:BA:1899:G:C8	25:BA:1899:G:H5''	2.51	0.45
25:BA:1940:U:O2	25:BA:1940:U:H2'	2.15	0.45
25:BA:1998:G:O6	25:BA:1999:C:N4	2.49	0.45
25:BA:2029:G:C5	25:BA:2031:A:OP1	2.68	0.45
25:BA:2067:G:C6	25:BA:2069:G:C8	3.04	0.45
25:BA:216:A:C2	25:BA:217:G:C5	3.04	0.45
25:BA:221:A:C2	25:BA:233:A:H1'	2.52	0.45
25:BA:2061:G:C8	25:BA:2503:A:N3	2.84	0.45
25:BA:195:A:H4'	25:BA:251:A:H4'	1.97	0.45
25:BA:2641:G:N1	25:BA:2774:C:C4	2.84	0.45
25:BA:2645:G:H8	25:BA:2645:G:H5''	1.82	0.45
25:BA:2666:C:C5	25:BA:2667:C:C2	2.99	0.45
25:BA:2703:C:C6	25:BA:2704:C:C5	3.04	0.45
25:BA:286:C:C4	25:BA:287:C:C5	3.04	0.45
25:BA:2888:C:C2	25:BA:2889:C:C6	3.04	0.45
25:BA:300:A:C4	25:BA:334:C:H1'	2.52	0.45
25:BA:318:C:O2	25:BA:334:C:O2	2.33	0.45
25:BA:475:U:C6	25:BA:509:C:N4	2.84	0.45
25:BA:662:G:H5'	37:BO:16:ARG:CA	2.39	0.45
25:BA:696:G:C2	25:BA:697:C:C6	3.04	0.45
25:BA:714:U:C6	25:BA:714:U:OP1	2.69	0.45
25:BA:853:G:N3	25:BA:854:G:C8	2.84	0.45
25:BA:871:U:H2'	25:BA:872:A:H8	1.81	0.45
26:BB:78:A:H8	26:BB:78:A:O5'	1.98	0.45
27:BC:181:PRO:CD	27:BC:184:LYS:HD2	2.45	0.45
27:BC:190:ARG:HA	27:BC:193:ILE:HD12	1.97	0.45
27:BC:29:VAL:CG2	27:BC:216:THR:CG2	2.94	0.45
28:BD:69:ARG:HH22	28:BD:192:THR:HG23	1.81	0.45
28:BD:61:LEU:HB3	28:BD:63:ARG:NH2	2.31	0.45
28:BD:29:PRO:HG2	28:BD:83:GLU:HA	1.97	0.45
29:BE:59:VAL:CG1	29:BE:62:PRO:CD	2.94	0.45
31:BG:112:PRO:HA	31:BG:117:PHE:CB	2.46	0.45
31:BG:13:GLU:O	31:BG:17:PRO:HD3	2.16	0.45
31:BG:18:GLU:OE1	31:BG:22:ARG:NH1	2.46	0.45
31:BG:63:ILE:CG2	31:BG:64:THR:N	2.79	0.45
32:BH:9:ILE:O	32:BH:50:VAL:HG23	2.16	0.45
36:BN:71:ARG:N	36:BN:72:PRO:CD	2.79	0.45
36:BN:63:VAL:CG1	36:BN:78:ARG:HG3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:13:ASN:CB	36:BN:94:ARG:HB2	2.45	0.45
39:BQ:103:ARG:HB2	39:BQ:109:ALA:N	2.31	0.45
39:BQ:99:LYS:HD3	52:B4:43:HIS:ND1	2.30	0.45
40:BR:103:GLU:HA	40:BR:106:ARG:CB	2.46	0.45
41:BS:10:VAL:HG12	41:BS:14:TYR:HE1	1.78	0.45
41:BS:72:VAL:CG1	41:BS:73:GLU:H	2.29	0.45
36:BN:122:LEU:C	41:BS:74:ARG:HH12	2.20	0.45
42:BT:112:ARG:O	42:BT:113:ALA:C	2.55	0.45
25:BA:1249:U:C5'	42:BT:4:ALA:CB	2.92	0.45
43:BU:5:VAL:HG12	43:BU:37:VAL:HG22	1.97	0.45
45:BW:84:ALA:CB	45:BW:85:PRO:HD3	2.42	0.45
47:BY:10:ARG:NH1	47:BY:36:LYS:HD2	2.31	0.45
47:BY:127:LYS:CA	47:BY:164:ALA:HB3	2.43	0.45
47:BY:24:LEU:HD12	47:BY:41:LEU:HD13	1.98	0.45
47:BY:51:ALA:O	47:BY:52:SER:C	2.54	0.45
33:BK:147:GLN:OE1	33:BK:148:GLU:N	2.49	0.45
33:BK:93:THR:O	33:BK:94:ALA:C	2.54	0.45
6:AF:157:ILE:CG2	6:AF:164:ARG:NH2	2.77	0.45
3:AD:28:G:C6	3:AD:43:A:C6	3.04	0.45
40:BR:83:LYS:O	40:BR:84:GLN:NE2	2.49	0.45
1:AA:1069:C:H5	1:AA:1094:G:O6	1.99	0.45
1:AA:1102:A:C2	1:AA:1103:C:N3	2.85	0.45
1:AA:1284:C:N3	1:AA:1285:A:C6	2.84	0.45
1:AA:129(A):G:O2'	1:AA:130:A:P	2.74	0.45
1:AA:1486:G:C6	1:AA:1487:G:C6	3.04	0.45
1:AA:1502:A:C6	1:AA:1504:G:N2	2.84	0.45
1:AA:197:A:HO2'	1:AA:198:G:C4'	2.28	0.45
1:AA:231:G:O6	1:AA:232:G:O6	2.35	0.45
1:AA:273:A:C6	1:AA:274:A:C5	3.04	0.45
1:AA:318:G:O2'	1:AA:1468:A:O2'	2.30	0.45
1:AA:389:A:H2'	1:AA:390:C:O5'	2.16	0.45
1:AA:422:C:O4'	1:AA:423:G:C2	2.69	0.45
1:AA:545:C:C2'	1:AA:546:G:H5'	2.46	0.45
1:AA:583:A:O2'	1:AA:584:G:O4'	2.34	0.45
1:AA:578:C:H1'	1:AA:729:A:H1'	1.98	0.45
1:AA:775:G:HO2'	1:AA:776:G:C5'	2.29	0.45
1:AA:790:A:OP1	2:AC:38:A:O2'	2.30	0.45
1:AA:909:A:O5'	1:AA:909:A:C8	2.67	0.45
1:AA:20:U:H5	1:AA:916:G:N2	2.14	0.45
1:AA:975:A:C5'	1:AA:976:G:H5'	2.47	0.45
2:AC:75:C:H5	2:AC:76:A:O2'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:68:ILE:CG1	5:AE:90:MET:HG3	2.30	0.45
6:AF:175:LEU:HD21	6:AF:201:TYR:HD2	1.77	0.45
7:AG:155:LEU:CB	7:AG:158:ILE:HG12	2.42	0.45
7:AG:201:GLN:NE2	7:AG:201:GLN:HA	2.31	0.45
7:AG:56:VAL:HG12	7:AG:202:LEU:CD2	2.45	0.45
7:AG:58:LEU:CD2	7:AG:62:GLN:CG	2.94	0.45
1:AA:430:A:H4'	7:AG:7:PRO:HB3	1.98	0.45
8:AH:11:ILE:HD11	8:AH:104:ALA:HB1	1.98	0.45
10:AJ:101:LEU:C	10:AJ:101:LEU:CD2	2.85	0.45
10:AJ:122:HIS:N	10:AJ:122:HIS:CD2	2.82	0.45
10:AJ:29:LYS:HZ3	10:AJ:102:ARG:HE	1.63	0.45
10:AJ:46:ALA:O	10:AJ:49:ILE:N	2.49	0.45
11:AK:11:THR:O	11:AK:14:ARG:CD	2.57	0.45
11:AK:123:GLU:OE2	11:AK:124:ALA:N	2.49	0.45
11:AK:46:LYS:HG3	11:AK:64:LYS:CB	2.46	0.45
13:AM:39:PRO:O	13:AM:69:ASN:O	2.34	0.45
13:AM:48:THR:HA	13:AM:61:GLU:O	2.16	0.45
14:AN:81:ASP:HB2	14:AN:106:LYS:CE	2.47	0.45
14:AN:71:LYS:O	14:AN:74:ALA:N	2.49	0.45
14:AN:78:GLN:O	14:AN:104:GLN:CB	2.48	0.45
17:AQ:11:LYS:HE3	17:AQ:11:LYS:HB3	1.73	0.45
17:AQ:12:ARG:HA	17:AQ:20:ALA:HB2	1.97	0.45
18:AR:81:LEU:CD2	18:AR:85:LEU:HD13	2.46	0.45
18:AR:81:LEU:HD23	18:AR:85:LEU:CD1	2.45	0.45
19:AS:20:VAL:HG22	19:AS:35:LYS:HA	1.97	0.45
19:AS:71:ARG:NH1	19:AS:71:ARG:HB2	2.32	0.45
19:AS:7:ALA:HB3	19:AS:18:ARG:HG3	1.98	0.45
21:AU:53:ARG:HG2	21:AU:63:GLN:NE2	2.32	0.45
23:AW:42:GLN:HA	23:AW:42:GLN:NE2	2.31	0.45
1:AA:194:C:H4'	23:AW:68:LYS:HE2	1.98	0.45
24:AX:4:GLY:O	24:AX:6:ARG:HG2	2.16	0.45
49:B1:1:MET:O	49:B1:2:ARG:C	2.55	0.45
49:B1:30:LEU:O	49:B1:31:ARG:C	2.55	0.45
51:B3:5:ILE:HG21	51:B3:60:GLN:NE2	2.31	0.45
51:B3:57:GLU:C	51:B3:61:ARG:HB2	2.36	0.45
51:B3:59:PHE:HA	51:B3:62:ARG:NH1	2.32	0.45
51:B3:65:ASP:C	51:B3:68:ARG:HH12	2.19	0.45
53:B5:22:ALA:C	53:B5:23:THR:HG23	2.37	0.45
53:B5:38:LYS:HB3	53:B5:39:TYR:H	1.32	0.45
25:BA:1007:C:N4	25:BA:1136:G:O6	2.49	0.45
25:BA:1044:G:C2	25:BA:1111:A:H1'	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:115:C:C2'	25:BA:116:C:O5'	2.65	0.45
25:BA:1170:G:N1	25:BA:1180:C:N4	2.65	0.45
25:BA:1182:A:H3'	25:BA:1183:G:H3'	1.97	0.45
25:BA:1345:C:C2	25:BA:1346:G:C8	3.04	0.45
25:BA:1413:G:C6	25:BA:1414:G:N7	2.84	0.45
25:BA:1569:A:N1	25:BA:1570:A:C5	2.85	0.45
25:BA:1650:G:O2'	25:BA:1651:G:OP1	2.32	0.45
25:BA:172:C:H2'	25:BA:173:G:C8	2.51	0.45
25:BA:1730:U:C6	25:BA:1730:U:O5'	2.69	0.45
25:BA:740:U:C6	25:BA:1784:A:C5	3.05	0.45
25:BA:1827:C:H5''	25:BA:1971:A:O3'	2.16	0.45
25:BA:1892:C:C2	25:BA:1893:C:C5	3.05	0.45
25:BA:1918:A:C3'	25:BA:1919:A:H62	2.29	0.45
25:BA:1965:C:C3'	25:BA:1966:A:C8	2.98	0.45
25:BA:1993:U:H2'	25:BA:1994:C:C5'	2.46	0.45
25:BA:2070:G:C6	25:BA:2442:C:C4	3.04	0.45
25:BA:2136:C:C4	25:BA:2137:C:C5	3.05	0.45
25:BA:2173:A:C8	25:BA:2173:A:OP2	2.70	0.45
25:BA:225:A:N6	25:BA:419:C:H4'	2.31	0.45
25:BA:230:U:O2'	25:BA:231:C:O5'	2.33	0.45
25:BA:2325:G:C8	25:BA:2326:C:H5	2.33	0.45
25:BA:2352:A:C2	25:BA:2353:G:H1'	2.51	0.45
25:BA:2357:U:C2'	25:BA:2358:G:H5''	2.45	0.45
25:BA:2402:C:C6	25:BA:2402:C:O5'	2.69	0.45
25:BA:2404:C:H2'	25:BA:2405:G:H8	1.80	0.45
25:BA:827:U:P	25:BA:2429:G:OP2	2.74	0.45
25:BA:2432:A:C6	25:BA:2433:A:N6	2.82	0.45
25:BA:2527:C:O2'	25:BA:2528:U:C5'	2.64	0.45
25:BA:1782:C:N4	25:BA:2587:A:C6	2.84	0.45
25:BA:2617:C:C2'	25:BA:2618:G:H5'	2.46	0.45
25:BA:261:G:O4'	25:BA:608:A:C2	2.69	0.45
25:BA:2633:G:C2	25:BA:2634:G:C8	3.05	0.45
25:BA:2659:G:C1'	25:BA:2661:G:OP2	2.65	0.45
25:BA:269:U:O2	25:BA:270:A:N7	2.49	0.45
25:BA:2736:G:N2	25:BA:2769:C:C2	2.84	0.45
25:BA:2857:G:H2'	25:BA:2858:C:H5''	1.98	0.45
25:BA:359:A:P	25:BA:360:G:OP1	2.74	0.45
25:BA:376:C:C2	25:BA:399:G:N2	2.85	0.45
25:BA:382:G:C2'	25:BA:383:U:H5'	2.46	0.45
25:BA:223:A:C5	25:BA:408:G:C1'	2.97	0.45
25:BA:40:C:H2'	25:BA:41:C:C5	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:469:G:H2'	25:BA:470:A:O5'	2.16	0.45
25:BA:571:A:C5	25:BA:575:A:N7	2.85	0.45
25:BA:581:C:H2'	25:BA:582:G:C8	2.51	0.45
25:BA:599:G:O2'	30:BF:32:LEU:HD12	2.16	0.45
25:BA:613:U:C5	25:BA:614:U:O2	2.70	0.45
25:BA:754:C:O2'	25:BA:755:C:H5'	2.16	0.45
25:BA:806:C:H6	25:BA:806:C:H3'	1.81	0.45
25:BA:813:U:H2'	25:BA:814:C:H6	1.81	0.45
25:BA:815:C:N3	25:BA:816:C:C5	2.84	0.45
25:BA:823:G:C6	25:BA:835:A:C6	3.04	0.45
25:BA:817:C:O2	25:BA:839:U:H5''	2.17	0.45
25:BA:931:G:C8	25:BA:932:G:C1'	2.86	0.45
25:BA:942:G:N1	25:BA:943:U:C4	2.85	0.45
25:BA:97:C:C2'	25:BA:98:G:O5'	2.65	0.45
26:BB:53:A:C2	26:BB:54:G:C8	3.04	0.45
27:BC:108:MET:HG3	27:BC:110:PHE:CZ	2.52	0.45
25:BA:2124:G:H4'	27:BC:42:GLU:CD	2.37	0.45
27:BC:64:LEU:HG	27:BC:161:ILE:CG1	2.47	0.45
27:BC:83:ILE:HG23	27:BC:94:VAL:CG1	2.47	0.45
28:BD:217:ARG:CG	28:BD:218:ARG:N	2.78	0.45
28:BD:219:PRO:C	28:BD:220:HIS:CG	2.89	0.45
28:BD:264:LYS:HB2	28:BD:265:PRO:HD3	1.96	0.45
28:BD:51:VAL:HG12	28:BD:52:ARG:CD	2.46	0.45
29:BE:170:LEU:CD2	29:BE:170:LEU:N	2.79	0.45
25:BA:443:A:N7	30:BF:45:ARG:CZ	2.79	0.45
31:BG:79:ASN:C	31:BG:82:LEU:HD21	2.37	0.45
32:BH:15:VAL:O	32:BH:17:VAL:HG12	2.16	0.45
32:BH:76:VAL:O	32:BH:79:VAL:CG2	2.64	0.45
35:BM:19:GLU:HB2	35:BM:56:ASN:O	2.17	0.45
36:BN:114:ILE:O	36:BN:115:VAL:C	2.55	0.45
36:BN:17:ARG:NH2	36:BN:99:PHE:HD1	2.15	0.45
36:BN:13:ASN:O	36:BN:52:VAL:CG1	2.64	0.45
37:BO:113:LYS:CA	37:BO:129:ALA:CB	2.93	0.45
38:BP:134:ARG:CD	38:BP:137:TYR:HA	2.45	0.45
38:BP:55:VAL:CG2	38:BP:64:ILE:HD11	2.46	0.45
25:BA:2708:G:P	39:BQ:68:ARG:HE	2.35	0.45
40:BR:97:ARG:HH21	40:BR:97:ARG:HG3	1.82	0.45
41:BS:11:GLU:O	41:BS:13:ARG:N	2.50	0.45
41:BS:16:ARG:NH1	41:BS:16:ARG:HG3	2.24	0.45
43:BU:12:TYR:CE1	43:BU:14:VAL:N	2.84	0.45
43:BU:1:MET:O	43:BU:2:PHE:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:24:ILE:HG21	44:BV:36:LEU:CD2	2.46	0.45
44:BV:65:LEU:N	44:BV:65:LEU:HD22	2.31	0.45
44:BV:88:ARG:O	44:BV:89:ALA:CB	2.63	0.45
45:BW:87:GLN:N	45:BW:87:GLN:NE2	2.65	0.45
46:BX:14:LEU:HB3	46:BX:17:SER:CB	2.46	0.45
47:BY:128:VAL:HB	47:BY:162:GLU:CB	2.46	0.45
47:BY:153:SER:N	47:BY:168:GLU:HB2	2.32	0.45
25:BA:904:C:O4'	47:BY:169:GLU:OE2	2.35	0.45
47:BY:6:LYS:HZ3	47:BY:35:ARG:HG3	1.81	0.45
33:BK:115:ALA:O	33:BK:128:LEU:HD11	2.15	0.45
25:BA:1062:G:H2'	25:BA:1062:G:N3	2.31	0.45
34:BL:134:MET:SD	34:BL:135:GLY:N	2.90	0.45
1:AA:1442:G:H3'	1:AA:1446:A:H2	1.82	0.45
47:BY:179:ASP:CG	47:BY:180:VAL:N	2.70	0.45
10:AJ:126:ASP:HA	10:AJ:131:LYS:HG2	1.98	0.45
1:AA:1023:G:C2'	1:AA:1024:G:H5'	2.41	0.45
1:AA:456:C:H3'	1:AA:456:C:C6	2.51	0.45
1:AA:1049:U:C1'	1:AA:1201:A:O4'	2.65	0.45
1:AA:1062:U:C4	1:AA:1063:C:N4	2.85	0.45
1:AA:1102:A:C2'	1:AA:1103:C:O5'	2.64	0.45
1:AA:114:U:H2'	1:AA:115:G:C8	2.52	0.45
1:AA:1215:G:N2	1:AA:1216:G:C8	2.83	0.45
1:AA:1462:G:H2'	1:AA:1463:C:H6	1.81	0.45
1:AA:819:A:C2	1:AA:1529:G:N7	2.85	0.45
1:AA:134:A:H1'	1:AA:325:A:C4	2.51	0.45
1:AA:414:A:H2'	1:AA:415:A:O4'	2.16	0.45
1:AA:47:C:O2	1:AA:49:U:H5	1.99	0.45
1:AA:588:G:H1'	1:AA:753:A:C2	2.52	0.45
1:AA:594:G:O6	1:AA:595:G:N2	2.49	0.45
1:AA:665:A:N7	1:AA:733:A:N1	2.64	0.45
1:AA:733:A:H5''	1:AA:733:A:C8	2.52	0.45
1:AA:888:G:H3'	1:AA:889:A:H8	1.82	0.45
1:AA:953:G:N1	1:AA:1229:A:C6	2.84	0.45
2:AC:75:C:OP1	2:AC:76:A:OP2	2.35	0.45
3:AD:4:G:C6	3:AD:70:G:N1	2.85	0.45
3:AD:71:G:H5'	25:BA:1892:C:O2'	2.17	0.45
5:AE:50:GLU:O	5:AE:53:ARG:N	2.49	0.45
5:AE:97:TRP:O	5:AE:97:TRP:CG	2.66	0.45
6:AF:107:GLN:H	6:AF:107:GLN:NE2	2.15	0.45
6:AF:108:ASN:HD22	6:AF:111:LEU:HD11	1.81	0.45
6:AF:43:LEU:HD23	6:AF:44:GLU:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:128:VAL:HG23	7:AG:132:ARG:C	2.37	0.45
7:AG:165:MET:HE3	7:AG:167:GLY:H	1.81	0.45
7:AG:177:ASP:HB3	7:AG:182:LYS:O	2.16	0.45
7:AG:60:GLU:CG	7:AG:203:VAL:CG2	2.86	0.45
8:AH:71:LEU:O	8:AH:72:GLN:HG3	2.16	0.45
8:AH:91:LEU:C	8:AH:91:LEU:CD2	2.82	0.45
9:AI:100:ASN:O	21:AU:28:GLU:HA	2.16	0.45
9:AI:1:MET:SD	9:AI:68:PRO:HD3	2.56	0.45
9:AI:55:ASP:C	9:AI:57:GLN:H	2.20	0.45
9:AI:81:ILE:HB	9:AI:82:ARG:H	1.31	0.45
10:AJ:6:ARG:O	10:AJ:7:ALA:C	2.54	0.45
11:AK:137:VAL:HG12	11:AK:138:TRP:H	1.81	0.45
11:AK:12:ARG:HA	11:AK:15:ASN:HB2	1.98	0.45
11:AK:96:GLY:C	11:AK:97:VAL:HG12	2.36	0.45
12:AL:14:VAL:O	12:AL:14:VAL:HG12	2.16	0.45
14:AN:59:TYR:O	14:AN:60:ALA:C	2.55	0.45
14:AN:79:SER:OG	14:AN:104:GLN:NE2	2.38	0.45
15:AO:26:ALA:HB3	15:AO:29:GLY:HA2	1.98	0.45
1:AA:33:A:H1'	15:AO:31:PRO:HB3	1.98	0.45
15:AO:74:GLY:O	15:AO:75:HIS:HB3	2.16	0.45
18:AR:26:GLU:HA	18:AR:26:GLU:OE1	2.17	0.45
19:AS:58:TYR:O	19:AS:61:SER:HB3	2.16	0.45
20:AT:9:VAL:O	20:AT:9:VAL:HG13	2.16	0.45
16:AP:87:TYR:N	22:AV:73:GLU:O	2.49	0.45
1:AA:1243:C:OP2	24:AX:10:ARG:CZ	2.64	0.45
50:B2:44:ARG:O	50:B2:45:GLY:C	2.54	0.45
53:B5:46:HIS:O	53:B5:47:THR:O	2.35	0.45
54:B6:8:ASN:HD21	54:B6:10:ARG:HB2	1.80	0.45
25:BA:1379:A:OP2	54:B6:10:ARG:NH2	2.48	0.45
55:B7:29:LYS:CB	55:B7:34:TRP:CZ2	2.97	0.45
56:B8:1:MET:O	56:B8:33:LYS:O	2.34	0.45
25:BA:1044:G:H4'	25:BA:1047:G:C1'	2.08	0.45
25:BA:1181:C:C2	25:BA:1182:A:C8	3.05	0.45
25:BA:1223:C:O2'	25:BA:1224:G:OP1	2.31	0.45
25:BA:1249:U:O4	37:BO:21:ARG:CZ	2.64	0.45
25:BA:1277:G:O2'	39:BQ:24:GLN:HG2	2.16	0.45
25:BA:1324:G:H3'	25:BA:1325:G:H4'	1.97	0.45
25:BA:1493:C:C2'	25:BA:1493:C:O2	2.58	0.45
25:BA:1504:C:C2'	25:BA:1505:C:H6	2.22	0.45
25:BA:1560:G:C2'	25:BA:1561:G:O5'	2.64	0.45
25:BA:1605:C:C4'	25:BA:1610:A:N6	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1303:G:N2	25:BA:1626:G:C2'	2.80	0.45
25:BA:1650:G:H2'	25:BA:1651:G:H8	1.81	0.45
25:BA:1801:G:C8	25:BA:1801:G:OP1	2.70	0.45
25:BA:1806:C:C2'	25:BA:1807:G:H5'	2.47	0.45
25:BA:1820:U:C5	28:BD:159:ALA:CB	3.00	0.45
25:BA:182:A:OP2	25:BA:182:A:C8	2.68	0.45
25:BA:1859:A:C8	25:BA:1859:A:C3'	2.99	0.45
25:BA:1911:U:O4	25:BA:1918:A:N7	2.50	0.45
25:BA:200:U:O4	25:BA:248:G:N7	2.48	0.45
25:BA:1268:A:C6	25:BA:2013:A:N7	2.84	0.45
25:BA:2020:A:C2	25:BA:2035:G:C5	3.04	0.45
25:BA:2090:G:H2'	25:BA:2091:U:C6	2.51	0.45
25:BA:2091:U:O4	25:BA:2092:U:C4	2.69	0.45
25:BA:2094:G:C6	25:BA:2095:C:N3	2.84	0.45
25:BA:2115:G:C2	25:BA:2117:A:N7	2.83	0.45
25:BA:185:U:N3	25:BA:212:G:C2	2.84	0.45
25:BA:2134:A:C4	25:BA:2134:A:OP2	2.68	0.45
25:BA:46:C:H5	25:BA:215:G:OP2	2.00	0.45
25:BA:2277:G:C5'	25:BA:2278:A:OP2	2.65	0.45
25:BA:2286:A:C8	53:B5:31:PRO:CD	2.99	0.45
25:BA:2317:C:C4	25:BA:2318:G:O6	2.69	0.45
25:BA:2373:G:C6	25:BA:2374:C:N4	2.85	0.45
25:BA:23:G:H2'	25:BA:24:G:C5'	2.47	0.45
25:BA:2060:A:O2'	25:BA:2502:G:H5'	2.17	0.45
25:BA:2538:C:O2	25:BA:2539:C:C6	2.69	0.45
25:BA:1782:C:C5	25:BA:2587:A:N1	2.85	0.45
25:BA:2773:C:H2'	25:BA:2774:C:C6	2.51	0.45
25:BA:2776:A:C4'	25:BA:2777:G:H5''	2.14	0.45
25:BA:2782:G:C2'	25:BA:2783:G:O5'	2.65	0.45
25:BA:2633:G:H5''	25:BA:2812:G:H5'	1.99	0.45
25:BA:2850:A:H2	39:BQ:61:HIS:CE1	2.34	0.45
25:BA:2875:C:C2	25:BA:2876:G:C8	3.04	0.45
25:BA:373:U:C2'	25:BA:374:A:OP2	2.64	0.45
25:BA:387:U:O3'	25:BA:388:G:O4'	2.35	0.45
25:BA:472:A:C2'	25:BA:473:G:H5''	2.44	0.45
25:BA:499:U:C6	25:BA:500:G:O4'	2.69	0.45
25:BA:580:C:O2'	25:BA:581:C:C5'	2.63	0.45
25:BA:72:U:C4	25:BA:112:U:H1'	2.51	0.45
25:BA:801:G:HO2'	25:BA:802:A:P	2.35	0.45
25:BA:824:A:C3'	25:BA:825:C:C5	2.97	0.45
25:BA:832:G:HO2'	25:BA:833:U:H6	1.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:961:C:C2'	25:BA:962:G:OP1	2.64	0.45
25:BA:963:U:O2'	25:BA:964:C:O5'	2.34	0.45
25:BA:974:G:C3'	25:BA:974(A):C:C5'	2.89	0.45
25:BA:975:G:H21	25:BA:1156:A:H62	1.61	0.45
25:BA:977:G:N2	25:BA:978:G:N3	2.64	0.45
26:BB:114:G:H5'	40:BR:47:THR:HB	1.98	0.45
26:BB:81:G:C6	26:BB:82:G:C5	3.05	0.45
26:BB:8:U:C2	26:BB:9:G:H8	2.29	0.45
27:BC:63:SER:O	27:BC:65:PRO:CD	2.64	0.45
28:BD:120:GLY:O	28:BD:131:LEU:CD1	2.64	0.45
28:BD:198:ASN:OD1	28:BD:201:HIS:HB3	2.17	0.45
28:BD:211:ARG:O	28:BD:215:LEU:CD1	2.51	0.45
28:BD:261:LYS:C	28:BD:263:ARG:N	2.70	0.45
28:BD:77:ALA:HB3	28:BD:95:LEU:HD21	1.95	0.45
29:BE:171:GLU:HB2	29:BE:185:LYS:HZ2	1.81	0.45
25:BA:2811:G:P	29:BE:60:ASN:HD22	2.39	0.45
25:BA:2787:C:H5'	29:BE:64:LYS:HB2	1.98	0.45
29:BE:8:LYS:HE3	41:BS:3:ARG:HG3	1.96	0.45
30:BF:201:VAL:O	30:BF:202:PHE:C	2.54	0.45
31:BG:41:GLN:OE1	31:BG:155:MET:CE	2.64	0.45
32:BH:161:GLY:C	32:BH:163:TYR:HE1	2.20	0.45
32:BH:43:VAL:CB	32:BH:51:ARG:O	2.64	0.45
32:BH:64:LEU:HA	32:BH:67:LEU:HD23	1.98	0.45
33:BK:30:LEU:C	33:BK:31:LEU:HD23	2.37	0.45
33:BK:38:LEU:C	33:BK:38:LEU:CD1	2.85	0.45
33:BK:5:LEU:CA	33:BK:8:PRO:HD2	2.46	0.45
35:BM:123:TYR:CG	35:BM:129:PRO:CB	2.99	0.45
36:BN:109:LYS:HB2	36:BN:109:LYS:HE2	1.77	0.45
37:BO:113:LYS:CA	37:BO:129:ALA:HB3	2.47	0.45
38:BP:14:ARG:CA	38:BP:14:ARG:NE	2.58	0.45
38:BP:55:VAL:HG22	38:BP:64:ILE:HD11	1.97	0.45
38:BP:77:LYS:CE	38:BP:87:LYS:HZ3	2.28	0.45
40:BR:33:LYS:O	40:BR:34:HIS:O	2.33	0.45
40:BR:24:LEU:HG	40:BR:41:ASP:HA	1.98	0.45
40:BR:56:LEU:HB3	40:BR:59:LYS:CD	2.42	0.45
40:BR:78:LEU:O	40:BR:82:ILE:O	2.33	0.45
41:BS:41:ARG:C	41:BS:43:GLN:N	2.70	0.45
41:BS:67:SER:HA	41:BS:75:ILE:CG2	2.46	0.45
43:BU:1:MET:H3	43:BU:44:LYS:CA	2.29	0.45
43:BU:72:VAL:O	43:BU:88:ARG:CG	2.65	0.45
46:BX:44:ILE:CG2	46:BX:44:ILE:O	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:146:ILE:O	47:BY:148:ASP:N	2.46	0.45
47:BY:39:VAL:HA	47:BY:44:PHE:CE1	2.52	0.45
47:BY:43:GLU:HA	47:BY:46:LYS:CG	2.46	0.45
25:BA:1060:U:H5''	25:BA:1061:U:C4	2.52	0.45
25:BA:1087:G:H2'	25:BA:1089:G:C4'	2.47	0.45
34:BL:131:ALA:HB1	34:BL:136:VAL:HG12	1.97	0.45
34:BL:55:VAL:HG21	34:BL:69:THR:HG22	1.99	0.45
25:BA:188:G:C2'	25:BA:189:G:H5'	2.46	0.45
32:BH:109:PHE:N	32:BH:109:PHE:HD2	2.13	0.45
30:BF:149:ASP:OD1	30:BF:151:SER:HB3	2.16	0.45
1:AA:1311:G:OP2	22:AV:2:PRO:N	2.49	0.45
1:AA:1060:C:O2'	1:AA:1061:G:H5'	2.17	0.45
1:AA:1115:C:N4	1:AA:1116:C:N4	2.65	0.45
1:AA:1159:U:O4	1:AA:1182:G:H1'	2.16	0.45
1:AA:1178:G:H2'	1:AA:1180:A:OP2	2.16	0.45
1:AA:1227:A:HO2'	16:AP:115:LYS:CG	2.28	0.45
1:AA:1246:C:N4	1:AA:1247:U:O4	2.49	0.45
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.17	0.45
1:AA:1466:C:H2'	1:AA:1467:G:N9	2.31	0.45
1:AA:1419:G:C5	1:AA:1482:G:C2	3.05	0.45
1:AA:171:A:C2	1:AA:172:A:C2	3.05	0.45
1:AA:219:C:C4	1:AA:220:G:C8	3.05	0.45
1:AA:223:U:H2'	1:AA:224:C:C6	2.51	0.45
1:AA:23:C:C2'	1:AA:23:C:O2	2.63	0.45
1:AA:278:G:H21	1:AA:279:A:N6	2.12	0.45
1:AA:375:U:O3'	19:AS:6:LEU:HD11	2.17	0.45
1:AA:405:U:O4	7:AG:2:GLY:CA	2.65	0.45
1:AA:467:G:N2	1:AA:468:A:C4	2.84	0.45
1:AA:766:A:C8	1:AA:814:A:N1	2.85	0.45
1:AA:780:A:C2	1:AA:803:G:C6	3.03	0.45
1:AA:869:G:H5'	1:AA:872:A:O4'	2.17	0.45
1:AA:889:A:H4'	1:AA:890:G:C4'	2.44	0.45
1:AA:901:A:N3	1:AA:902:G:C1'	2.79	0.45
1:AA:919:A:C4	1:AA:920:U:C5	3.05	0.45
1:AA:942:G:C2	1:AA:943:U:C6	3.05	0.45
2:AC:50:U:C6	2:AC:50:U:OP2	2.69	0.45
2:AC:74:C:H6	2:AC:75:C:H5''	1.81	0.45
5:AE:133:LYS:HB3	5:AE:137:ARG:HH12	1.82	0.45
5:AE:181:PHE:HE1	11:AK:70:GLN:NE2	2.13	0.45
7:AG:13:ARG:CD	7:AG:32:ALA:HB2	2.46	0.45
7:AG:58:LEU:O	7:AG:62:GLN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:62:TRP:CH2	9:AI:64:GLN:HB2	2.48	0.45
10:AJ:21:VAL:HG23	10:AJ:22:LEU:N	2.31	0.45
14:AN:110:ASP:CB	21:AU:88:LYS:HB2	2.45	0.45
15:AO:34:ARG:O	15:AO:60:LEU:CB	2.61	0.45
15:AO:6:THR:HG1	15:AO:9:GLN:CD	2.19	0.45
16:AP:104:ARG:HG2	16:AP:105:THR:CG2	2.23	0.45
1:AA:1308:U:O5'	16:AP:99:ARG:NH1	2.49	0.45
17:AQ:17:LYS:HG3	17:AQ:18:VAL:H	1.82	0.45
21:AU:47:THR:HA	21:AU:83:GLU:H	1.81	0.45
22:AV:39:THR:O	22:AV:41:VAL:HG13	2.16	0.45
23:AW:43:LEU:CD1	23:AW:51:GLU:CG	2.95	0.45
49:B1:27:LEU:HD11	49:B1:48:LEU:CG	2.47	0.45
25:BA:1364:G:N7	51:B3:2:LYS:HB2	2.31	0.45
52:B4:12:SER:O	52:B4:13:LYS:C	2.55	0.45
25:BA:1612:C:C5'	54:B6:7:PRO:HD3	2.46	0.45
55:B7:10:ALA:CB	55:B7:64:TYR:HE2	2.25	0.45
25:BA:1036:G:OP1	32:BH:59:ARG:NH2	2.49	0.45
25:BA:1136:G:O2'	25:BA:1137:G:H5'	2.16	0.45
25:BA:1215:G:C2'	25:BA:1216:G:C5'	2.95	0.45
25:BA:1212:G:N7	25:BA:1235:G:O6	2.50	0.45
25:BA:1252:G:H3'	25:BA:1253:A:C1'	2.47	0.45
25:BA:126:A:N3	54:B6:18:PHE:CB	2.79	0.45
25:BA:1328:G:H4'	25:BA:1329:U:C5	2.51	0.45
25:BA:137:C:O2'	25:BA:137(A):G:H5'	2.15	0.45
25:BA:1480:G:H2'	25:BA:1480:G:N3	2.31	0.45
25:BA:1485:G:O6	25:BA:1486:A:N6	2.49	0.45
25:BA:1492:G:H2'	25:BA:1493:C:C4	2.50	0.45
25:BA:1560:G:H2'	25:BA:1561:G:H8	1.82	0.45
25:BA:1661:G:N1	25:BA:1662:C:C4	2.85	0.45
25:BA:1693:U:H4'	25:BA:1694:C:OP2	2.15	0.45
25:BA:1892:C:N4	25:BA:1893:C:N4	2.64	0.45
25:BA:1894:C:O2	25:BA:1895:C:C6	2.70	0.45
25:BA:1943:U:C4	25:BA:1945:G:O4'	2.70	0.45
25:BA:2004:G:C6	25:BA:2005:A:C2	3.05	0.45
25:BA:2040:C:O2	25:BA:2041:U:C6	2.70	0.45
25:BA:2080:G:O2'	25:BA:2081:C:O5'	2.35	0.45
25:BA:2141:G:O2'	25:BA:2142:C:H5'	2.15	0.45
25:BA:2179:C:O2	25:BA:2179:C:H2'	2.16	0.45
25:BA:2190:G:C6	25:BA:2191:G:N7	2.84	0.45
25:BA:2198:A:H2	25:BA:2225:A:N6	2.05	0.45
25:BA:2199:A:N1	25:BA:2226:C:N4	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2207:C:C2'	25:BA:2208:U:C5'	2.95	0.45
25:BA:2210:G:O2'	25:BA:2211:G:OP2	2.29	0.45
25:BA:2236:C:H6	25:BA:2236:C:C4'	2.25	0.45
25:BA:2278:A:OP1	38:BP:14:ARG:CG	2.64	0.45
25:BA:2304:G:N3	31:BG:156:ASP:OD1	2.50	0.45
25:BA:2385:C:C2	25:BA:2386:C:H6	2.32	0.45
25:BA:244:A:N6	25:BA:245:G:N2	2.64	0.45
25:BA:2455:G:C2	25:BA:2456:C:C4	3.04	0.45
25:BA:2462:U:N3	25:BA:2463:C:C5	2.85	0.45
25:BA:2520:C:H2'	25:BA:2521:C:H5'	1.94	0.45
25:BA:2629:A:HO2'	25:BA:2630:G:C5'	2.28	0.45
25:BA:2683:C:C4	25:BA:2684:U:C4	3.05	0.45
25:BA:270(R):G:C2	25:BA:270(S):G:C4	3.05	0.45
25:BA:1033:U:C6	25:BA:2750:A:N3	2.85	0.45
25:BA:2759:G:C2	25:BA:2760:C:C6	3.05	0.45
25:BA:2780:G:HO2'	25:BA:2781:A:C4'	2.29	0.45
25:BA:2853:C:O5'	25:BA:2853:C:H6	1.99	0.45
25:BA:285:C:H2'	25:BA:286:C:C5	2.52	0.45
25:BA:2876:G:OP1	41:BS:3:ARG:NH1	2.50	0.45
25:BA:386:G:O3'	25:BA:387:U:C6	2.70	0.45
25:BA:398:G:N2	25:BA:399:G:H1'	2.32	0.45
25:BA:39:C:H2'	25:BA:40:C:H6	1.82	0.45
25:BA:270:A:N6	25:BA:424:G:C6	2.84	0.45
25:BA:470:A:C2	25:BA:471:A:N3	2.84	0.45
25:BA:515:A:H5'	25:BA:581:C:H4'	1.97	0.45
25:BA:627:A:C3'	37:BO:75:ILE:HG21	2.46	0.45
25:BA:641:C:H2'	25:BA:642:G:C5'	2.46	0.45
25:BA:664:C:O3'	25:BA:941:A:OP1	2.35	0.45
25:BA:69:C:H2'	25:BA:69:C:O2	2.17	0.45
25:BA:814:C:C4	25:BA:815:C:C5	3.05	0.45
25:BA:820:A:C2	25:BA:943:U:O2'	2.58	0.45
25:BA:840:C:H2'	25:BA:841:A:H8	1.81	0.45
25:BA:84:A:H1'	25:BA:103:A:H61	1.75	0.45
25:BA:902:C:C2	25:BA:903:C:C5	3.05	0.45
25:BA:981:A:H3'	25:BA:982:C:C6	2.51	0.45
25:BA:99:U:C6	25:BA:99:U:H5''	2.51	0.45
26:BB:51:G:H8	26:BB:51:G:OP2	1.99	0.45
26:BB:73:A:C2	47:BY:29:TYR:OH	2.56	0.45
27:BC:154:ARG:HH11	27:BC:154:ARG:HG3	1.82	0.45
27:BC:61:THR:CA	27:BC:162:GLU:HA	2.45	0.45
27:BC:54:SER:HA	27:BC:57:ASN:ND2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:253:GLN:N	28:BD:253:GLN:OE1	2.44	0.45
28:BD:267:SER:O	28:BD:269:PHE:CE1	2.69	0.45
28:BD:48:ARG:HB3	28:BD:48:ARG:CZ	2.46	0.45
28:BD:59:LYS:CE	28:BD:59:LYS:O	2.56	0.45
28:BD:85:ASP:OD1	28:BD:85:ASP:N	2.48	0.45
29:BE:170:LEU:HD23	29:BE:170:LEU:H	1.82	0.45
29:BE:36:ARG:HH21	29:BE:41:LYS:HZ1	1.64	0.45
30:BF:139:PHE:HE2	30:BF:167:ALA:CB	2.28	0.45
31:BG:105:LYS:HA	31:BG:109:VAL:HG22	1.97	0.45
31:BG:4:ASP:O	31:BG:7:LEU:HB2	2.16	0.45
32:BH:6:ARG:O	32:BH:6:ARG:HG3	2.16	0.45
33:BK:5:LEU:C	33:BK:8:PRO:HD2	2.36	0.45
35:BM:114:ARG:O	35:BM:117:PHE:N	2.50	0.45
35:BM:115:ARG:HA	35:BM:118:LYS:CE	2.46	0.45
35:BM:132:ALA:C	35:BM:133:GLN:OE1	2.55	0.45
35:BM:2:LYS:O	35:BM:3:THR:O	2.35	0.45
35:BM:8:GLN:O	35:BM:9:VAL:C	2.54	0.45
36:BN:39:ILE:O	36:BN:58:VAL:HA	2.16	0.45
37:BO:16:ARG:HD3	37:BO:19:VAL:N	2.19	0.45
38:BP:134:ARG:HD2	38:BP:136:ALA:H	1.80	0.45
40:BR:102:ALA:C	40:BR:104:GLY:N	2.67	0.45
40:BR:74:ALA:HB2	40:BR:104:GLY:C	2.35	0.45
40:BR:13:ARG:CD	40:BR:90:GLY:O	2.55	0.45
43:BU:7:THR:OG1	43:BU:24:LYS:HE3	2.17	0.45
43:BU:1:MET:CE	43:BU:45:THR:CG2	2.94	0.45
43:BU:68:LYS:HA	43:BU:68:LYS:HD2	1.54	0.45
25:BA:566:U:C5'	43:BU:82:ARG:HH22	2.08	0.45
45:BW:30:VAL:HG22	45:BW:77:LYS:HG3	1.97	0.45
45:BW:39:ILE:HG21	45:BW:54:VAL:HG13	1.97	0.45
45:BW:58:HIS:CD2	45:BW:77:LYS:HD3	2.52	0.45
45:BW:60:ARG:HH12	54:B6:48:LYS:NZ	2.14	0.45
45:BW:62:LYS:CA	45:BW:72:LYS:HB3	2.46	0.45
46:BX:40:GLU:N	46:BX:62:GLU:OE2	2.50	0.45
47:BY:118:GLN:NE2	47:BY:119:GLU:N	2.65	0.45
33:BK:93:THR:C	33:BK:95:LYS:N	2.68	0.45
34:BL:12:LEU:CB	34:BL:13:PRO:HD2	2.34	0.45
34:BL:10:LEU:CD1	34:BL:41:PHE:HZ	2.27	0.45
1:AA:1032(B):G:H2'	1:AA:1033:G:C8	2.52	0.45
1:AA:93:U:O2	1:AA:95:G:N7	2.50	0.45
1:AA:96:G:H2'	1:AA:97:U:C6	2.51	0.45
27:BC:210:ARG:NH1	27:BC:210:ARG:HG2	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:45:VAL:O	32:BH:45:VAL:HG12	2.17	0.45
1:AA:1081:G:H2'	1:AA:1082:G:C8	2.52	0.45
1:AA:118:U:O4	1:AA:288:A:H2'	2.17	0.45
1:AA:10:A:C2'	1:AA:11:G:C5'	2.95	0.45
1:AA:1277:C:H2'	1:AA:1278:U:O4'	2.17	0.45
1:AA:1284:C:C4	1:AA:1285:A:C6	3.04	0.45
1:AA:1304:G:C1'	1:AA:1333:A:H61	2.27	0.45
1:AA:135:C:C5	1:AA:136:C:H5	2.34	0.45
1:AA:1386:G:C2	1:AA:1387:G:C5	3.05	0.45
1:AA:12:U:O2	1:AA:13:U:O4	2.35	0.45
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.51	0.45
1:AA:1475:G:C2'	1:AA:1476:G:O5'	2.65	0.45
1:AA:150:C:C2'	1:AA:151:A:O5'	2.64	0.45
1:AA:196:A:H1'	1:AA:222:U:O4'	2.16	0.45
1:AA:33:A:H5''	1:AA:34:C:OP2	2.16	0.45
1:AA:37:U:O2	1:AA:37:U:C2'	2.59	0.45
1:AA:450:G:N7	1:AA:481:G:C6	2.84	0.45
1:AA:397:A:N6	1:AA:548:G:N7	2.65	0.45
1:AA:568:G:N3	1:AA:574:A:H2	2.14	0.45
1:AA:574:A:O5'	1:AA:574:A:H8	1.99	0.45
1:AA:588:G:H1'	1:AA:753:A:N1	2.31	0.45
1:AA:591:U:C4	1:AA:649:G:C6	3.05	0.45
1:AA:64:G:H4'	1:AA:65:U:O5'	2.16	0.45
1:AA:6:G:H22	8:AH:98:THR:HG23	1.80	0.45
1:AA:713:G:H2'	1:AA:714:G:C8	2.52	0.45
1:AA:812:C:C1'	1:AA:813:U:H5	2.29	0.45
1:AA:862:C:O4'	1:AA:874:G:H4'	2.16	0.45
1:AA:881:G:C6	1:AA:882:C:C4	3.05	0.45
1:AA:886:G:H2'	1:AA:887:G:H5'	1.97	0.45
1:AA:928:G:H22	1:AA:1390:U:H1'	1.81	0.45
1:AA:932:C:O3'	10:AJ:3:ARG:HG3	2.16	0.45
1:AA:959:A:H4'	1:AA:985:C:H4'	1.99	0.45
1:AA:979:C:H2'	1:AA:979:C:O2	2.16	0.45
2:AC:52:G:C6	2:AC:53:G:C5	3.05	0.45
2:AC:9:G:O6	2:AC:22:G:N7	2.49	0.45
3:AD:52:G:C5	3:AD:53:G:C8	3.04	0.45
3:AD:58:A:O2'	3:AD:60:U:C5	2.69	0.45
5:AE:97:TRP:CH2	5:AE:176:GLU:HG3	2.49	0.45
5:AE:213:LEU:C	5:AE:213:LEU:HD23	2.37	0.45
5:AE:213:LEU:CD2	5:AE:217:ARG:HD3	2.42	0.45
6:AF:10:PHE:HZ	6:AF:176:HIS:CA	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:121:ALA:CB	6:AF:187:ALA:HB1	2.46	0.45
1:AA:1206:G:C5'	6:AF:194:GLY:HA2	2.39	0.45
6:AF:29:TYR:CE1	13:AM:65:LEU:CD1	2.90	0.45
7:AG:113:SER:O	7:AG:114:ARG:C	2.51	0.45
1:AA:8:A:O4'	8:AH:102:ALA:HA	2.17	0.45
8:AH:39:GLY:CA	8:AH:69:VAL:HB	2.41	0.45
9:AI:99:ALA:HB3	21:AU:31:LEU:HD11	1.98	0.45
10:AJ:99:LEU:HD21	10:AJ:102:ARG:NH1	2.31	0.45
11:AK:120:THR:H	11:AK:123:GLU:CD	2.09	0.45
11:AK:127:LEU:HA	11:AK:127:LEU:HD22	1.63	0.45
11:AK:6:ILE:CG2	11:AK:85:ARG:HH12	2.25	0.45
11:AK:87:SER:OG	11:AK:93:VAL:N	2.49	0.45
14:AN:67:ASP:C	14:AN:69:ALA:N	2.69	0.45
15:AO:102:ARG:HE	15:AO:102:ARG:HB3	1.53	0.45
15:AO:6:THR:O	15:AO:10:LEU:CD1	2.64	0.45
15:AO:88:GLY:HA3	15:AO:99:HIS:NE2	2.32	0.45
16:AP:108:ARG:HH11	16:AP:108:ARG:CB	2.29	0.45
16:AP:90:LEU:O	16:AP:91:ARG:C	2.55	0.45
16:AP:91:ARG:HA	16:AP:96:LEU:CD2	2.43	0.45
19:AS:25:ARG:O	19:AS:26:ARG:O	2.35	0.45
1:AA:760:G:O2'	20:AT:102:GLY:O	2.35	0.45
21:AU:58:LEU:HD22	21:AU:62:GLU:CG	2.46	0.45
45:BW:5:TYR:HB2	49:B1:24:LYS:HD3	1.99	0.45
50:B2:50:VAL:CG1	50:B2:53:LEU:HG	2.27	0.45
53:B5:25:LYS:HB3	53:B5:26:ASN:H	1.33	0.45
53:B5:24:GLU:HG2	55:B7:37:SER:HA	1.98	0.45
55:B7:26:LYS:HZ2	55:B7:43:GLN:HA	1.82	0.45
56:B8:9:ARG:NH2	56:B8:16:VAL:CG1	2.80	0.45
25:BA:1133:U:HO2'	25:BA:1134:G:H5''	1.80	0.45
25:BA:1140:C:O2'	25:BA:1141:U:OP2	2.34	0.45
25:BA:1142:U:C2'	25:BA:1142(A):A:C8	2.99	0.45
25:BA:1155:A:H2'	25:BA:1156:A:C5'	2.46	0.45
25:BA:118:A:H2'	25:BA:177:G:H21	1.81	0.45
25:BA:1262:A:C2'	25:BA:1263:U:O5'	2.65	0.45
25:BA:1334:G:C4	25:BA:1335:U:C5	3.04	0.45
25:BA:1404:C:C2'	25:BA:1405:U:C5'	2.94	0.45
25:BA:1455:G:C6	25:BA:1456:G:N7	2.85	0.45
25:BA:1470:G:N7	25:BA:1519:G:C8	2.84	0.45
25:BA:1472:A:C4	25:BA:1473:G:O6	2.70	0.45
25:BA:1537:C:C3'	25:BA:1538:G:H5'	2.46	0.45
25:BA:1605:C:C3'	25:BA:1606:G:H8	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1613:G:C4	54:B6:3:ARG:NH1	2.84	0.45
25:BA:1613:G:N2	25:BA:1619:G:C8	2.84	0.45
25:BA:1649:G:C2'	25:BA:1650:G:O5'	2.65	0.45
25:BA:1690:A:H62	25:BA:1697:G:N2	2.14	0.45
25:BA:1753:G:C2'	41:BS:98:LYS:HZ1	2.30	0.45
25:BA:1931:U:H5	25:BA:1932:A:N7	2.15	0.45
25:BA:1965:C:C3'	25:BA:1966:A:H8	2.25	0.45
25:BA:1993:U:H2'	25:BA:1994:C:C6	2.51	0.45
25:BA:1999:C:O2'	25:BA:2000:G:H5'	2.17	0.45
25:BA:2047:U:C2'	25:BA:2048:G:O5'	2.64	0.45
25:BA:1842:G:H5''	25:BA:2076:U:O4	2.16	0.45
25:BA:2176:A:C5'	27:BC:221:SER:HB2	2.47	0.45
25:BA:2217:G:C6	25:BA:2218:G:N7	2.85	0.45
25:BA:2259:G:C8	25:BA:2427:C:C5	3.04	0.45
25:BA:2270:G:C6	25:BA:2271:G:N3	2.85	0.45
25:BA:2333:A:O4'	25:BA:2335:A:C1'	2.64	0.45
25:BA:2346:A:H62	53:B5:37:ARG:CZ	2.22	0.45
25:BA:236:C:C2	25:BA:237:C:C5	3.04	0.45
25:BA:2375:G:C2'	25:BA:2377:A:N7	2.80	0.45
25:BA:412:A:N6	25:BA:2411:A:O2'	2.50	0.45
25:BA:2553:G:O6	25:BA:2583:G:O2'	2.35	0.45
25:BA:2579:C:C6	25:BA:2579:C:C4'	2.99	0.45
25:BA:260:G:C6	25:BA:261:G:C8	3.05	0.45
25:BA:2678:C:C2'	25:BA:2679:A:O5'	2.64	0.45
25:BA:2681:C:O2'	25:BA:2682:U:H6	1.99	0.45
25:BA:270(G):C:C2'	25:BA:270(H):C:C6	2.90	0.45
25:BA:2781:A:C2'	25:BA:2782:G:C4'	2.94	0.45
25:BA:2847:U:C6	25:BA:2848:G:C8	3.05	0.45
25:BA:2884:U:O2'	25:BA:2885:C:H5'	2.17	0.45
25:BA:290:G:C2'	25:BA:291:C:O5'	2.63	0.45
25:BA:319:C:C5	25:BA:320:A:N7	2.84	0.45
25:BA:336:C:H4'	46:BX:67:LEU:CD2	2.47	0.45
25:BA:495:G:H1'	44:BV:57:ASN:ND2	2.32	0.45
25:BA:476:G:C4'	25:BA:505:A:H2	2.28	0.45
25:BA:602:G:C4'	25:BA:603:A:O2'	2.64	0.45
25:BA:61:G:C5	25:BA:62:C:C5	3.05	0.45
25:BA:627:A:N7	25:BA:636:G:O2'	2.44	0.45
25:BA:659:C:C2	25:BA:660:G:C8	3.05	0.45
25:BA:673:C:H5''	30:BF:82:ILE:HD12	1.99	0.45
25:BA:679:C:C2	25:BA:680:G:N7	2.84	0.45
25:BA:67:U:H2'	25:BA:68:G:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:718:A:C8	25:BA:719:C:C6	3.04	0.45
25:BA:748:G:OP2	44:BV:88:ARG:O	2.34	0.45
25:BA:914:C:C5	25:BA:915:C:C6	3.05	0.45
25:BA:915:C:C2'	25:BA:916:G:H5'	2.46	0.45
26:BB:75:G:O6	26:BB:102:G:C2	2.69	0.45
26:BB:27:C:OP2	40:BR:33:LYS:NZ	2.49	0.45
26:BB:98:G:H5''	26:BB:99:A:OP1	2.16	0.45
27:BC:78:ALA:HA	27:BC:119:VAL:CG1	2.47	0.45
28:BD:78:LYS:HE2	28:BD:114:GLY:O	2.17	0.45
28:BD:11:PRO:HG2	28:BD:26:LYS:HE3	1.97	0.45
28:BD:141:VAL:HG13	28:BD:163:ALA:O	2.17	0.45
28:BD:149:PRO:O	28:BD:150:LYS:CB	2.64	0.45
28:BD:146:GLU:CB	28:BD:154:LYS:H	2.30	0.45
25:BA:764:A:N3	28:BD:214:TRP:CD1	2.84	0.45
28:BD:244:ARG:CB	28:BD:252:TRP:NE1	2.79	0.45
28:BD:244:ARG:CG	28:BD:252:TRP:CD1	2.99	0.45
28:BD:57:GLY:O	28:BD:58:HIS:ND1	2.49	0.45
28:BD:58:HIS:O	28:BD:59:LYS:HE2	2.17	0.45
29:BE:197:ILE:HB	29:BE:199:ARG:HE	1.82	0.45
29:BE:49:LEU:CG	29:BE:74:PRO:HB2	2.47	0.45
25:BA:443:A:OP2	30:BF:46:ARG:HB2	2.16	0.45
30:BF:62:ARG:HG3	30:BF:63:LYS:HG3	1.98	0.45
30:BF:73:ALA:O	30:BF:74:ARG:C	2.55	0.45
30:BF:97:TYR:C	30:BF:98:SER:O	2.55	0.45
32:BH:11:VAL:HG21	32:BH:17:VAL:HG21	1.98	0.45
32:BH:69:ARG:CG	32:BH:69:ARG:NH2	2.80	0.45
35:BM:123:TYR:HB2	35:BM:129:PRO:HB3	1.97	0.45
35:BM:25:ARG:C	35:BM:28:THR:HG23	2.37	0.45
25:BA:1022:G:H5''	35:BM:68:GLU:OE1	2.17	0.45
36:BN:39:ILE:CD1	36:BN:61:VAL:HG23	2.47	0.45
36:BN:39:ILE:O	36:BN:59:LYS:HE2	2.16	0.45
36:BN:92:GLU:H	36:BN:92:GLU:HG2	1.04	0.45
36:BN:17:ARG:NH1	36:BN:98:VAL:CG2	2.80	0.45
37:BO:112:LEU:O	37:BO:128:HIS:CE1	2.69	0.45
25:BA:1245:G:OP1	37:BO:15:ARG:CG	2.65	0.45
38:BP:109:VAL:HG11	38:BP:114:ALA:CA	2.46	0.45
38:BP:11:LYS:HE3	38:BP:11:LYS:HB2	1.81	0.45
38:BP:131:ILE:C	38:BP:132:VAL:HG13	2.35	0.45
38:BP:8:LYS:HD2	38:BP:93:TYR:CE2	2.52	0.45
39:BQ:37:THR:O	39:BQ:38:VAL:C	2.54	0.45
39:BQ:55:ALA:HB1	39:BQ:79:LEU:CG	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:70:LEU:N	39:BQ:70:LEU:HD23	2.31	0.45
39:BQ:73:VAL:C	39:BQ:77:ARG:NH1	2.70	0.45
39:BQ:73:VAL:O	39:BQ:74:LYS:C	2.53	0.45
40:BR:70:GLY:O	40:BR:71:ARG:C	2.54	0.45
41:BS:96:ARG:N	41:BS:96:ARG:HD2	2.32	0.45
42:BT:112:ARG:O	42:BT:115:ALA:CB	2.61	0.45
42:BT:32:PHE:C	42:BT:36:ARG:HE	2.19	0.45
42:BT:50:ARG:HB2	42:BT:50:ARG:CZ	2.36	0.45
42:BT:83:LEU:CD1	42:BT:95:LEU:CD1	2.94	0.45
42:BT:94:ASN:HD21	43:BU:6:LYS:HE3	1.81	0.45
44:BV:4:LYS:CA	44:BV:106:ILE:HD11	2.35	0.45
46:BX:97:ARG:CZ	46:BX:101:LYS:CD	2.95	0.45
46:BX:14:LEU:HB2	46:BX:20:TYR:H	1.80	0.45
47:BY:19:ARG:NE	47:BY:24:LEU:HD23	2.32	0.45
26:BB:103:U:H1'	47:BY:72:ARG:CG	2.47	0.45
26:BB:102:G:H1'	47:BY:73:GLN:NE2	2.31	0.45
48:BZ:29:GLN:HG2	48:BZ:31:VAL:HG13	1.99	0.45
25:BA:2353:G:H4'	48:BZ:32:ARG:NH2	2.31	0.45
1:AA:1039:C:H6	1:AA:1039:C:O5'	1.99	0.45
7:AG:69:GLY:C	7:AG:70:ILE:HG12	2.35	0.45
1:AA:525:C:H3'	1:AA:525:C:H6	1.80	0.45
34:BL:3:LYS:HB2	34:BL:3:LYS:HE3	1.71	0.45
1:AA:102:G:C6	1:AA:103:C:C5	3.05	0.45
1:AA:1171:G:H2'	1:AA:1172:C:C5	2.52	0.45
1:AA:1261:A:H3'	1:AA:1262:C:C6	2.51	0.45
1:AA:1305:G:O4'	1:AA:1305:G:OP2	2.35	0.45
1:AA:1331:G:O2'	1:AA:1332:A:O5'	2.34	0.45
1:AA:1352:C:C2	1:AA:1371:G:C6	3.05	0.45
1:AA:134:A:C2	1:AA:135:C:C2	3.05	0.45
1:AA:1504:G:H3'	1:AA:1504:G:H8	1.82	0.45
1:AA:226:G:N2	1:AA:227:G:C1'	2.77	0.45
1:AA:241:C:H2'	1:AA:242:C:O5'	2.16	0.45
1:AA:428:G:H5'	1:AA:430:A:O4'	2.17	0.45
1:AA:465:A:N7	1:AA:467:G:C2	2.85	0.45
1:AA:523:A:C8	1:AA:523:A:O5'	2.68	0.45
1:AA:540:G:H2'	1:AA:541:G:O4'	2.17	0.45
1:AA:558:G:C4	1:AA:559:A:C2	3.04	0.45
1:AA:659:U:H2'	1:AA:660:G:C8	2.50	0.45
1:AA:690:G:C2	1:AA:691:G:O4'	2.69	0.45
1:AA:69:G:C2	1:AA:73:G:C8	3.05	0.45
1:AA:774:G:H5'	28:BD:276:LYS:HG3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:836:G:C4	1:AA:851:G:C2	3.05	0.45
1:AA:880:C:HO2'	1:AA:881:G:H5'	1.81	0.45
1:AA:959:A:O5'	1:AA:960:U:OP2	2.35	0.45
1:AA:973:G:H3'	1:AA:974:A:H5''	1.98	0.45
1:AA:994:A:N7	1:AA:1216:G:C4'	2.67	0.45
2:AC:20:U:O2	2:AC:20:U:C2'	2.65	0.45
2:AC:31:G:N2	2:AC:40:C:C2	2.85	0.45
2:AC:38:A:H2'	2:AC:39:C:C5'	2.47	0.45
5:AE:9:GLU:HB2	5:AE:217:ARG:HH21	1.82	0.45
6:AF:22:TRP:CZ3	6:AF:32:LEU:CD1	3.00	0.45
7:AG:141:ARG:HD2	7:AG:142:PRO:CD	2.29	0.45
7:AG:127:THR:O	7:AG:146:ILE:HG22	2.16	0.45
7:AG:17:VAL:O	7:AG:18:LYS:O	2.34	0.45
7:AG:19:LEU:C	7:AG:21:LEU:H	2.15	0.45
8:AH:19:MET:CE	8:AH:20:GLN:N	2.80	0.45
8:AH:39:GLY:HA2	8:AH:69:VAL:CB	2.41	0.45
9:AI:11:ASN:HD21	9:AI:13:ASN:H	1.64	0.45
10:AJ:96:GLN:O	10:AJ:100:ALA:CB	2.65	0.45
10:AJ:42:ILE:CD1	10:AJ:116:ALA:HB3	2.36	0.45
10:AJ:78:ARG:HE	10:AJ:80:VAL:HG23	1.81	0.45
11:AK:39:LEU:HA	11:AK:39:LEU:HD13	1.47	0.45
12:AL:10:ARG:O	12:AL:11:LYS:C	2.54	0.45
14:AN:43:SER:C	14:AN:47:VAL:HG21	2.36	0.45
15:AO:38:THR:CG2	15:AO:39:VAL:N	2.78	0.45
1:AA:529:G:C6	15:AO:49:ASN:CB	2.99	0.45
17:AQ:15:LYS:O	17:AQ:16:PHE:CB	2.64	0.45
17:AQ:26:ARG:CB	17:AQ:43:CYS:HB2	2.43	0.45
19:AS:61:SER:OG	19:AS:62:VAL:HG22	2.17	0.45
20:AT:51:TYR:HD2	20:AT:57:VAL:HG11	1.81	0.45
50:B2:37:LEU:CD2	50:B2:39:ASP:HA	2.36	0.45
52:B4:43:HIS:O	52:B4:43:HIS:CD2	2.70	0.45
52:B4:48:GLU:C	52:B4:50:GLY:N	2.70	0.45
54:B6:21:ARG:O	54:B6:22:MET:C	2.53	0.45
55:B7:40:GLU:CG	55:B7:41:ILE:N	2.80	0.45
56:B8:9:ARG:NH2	56:B8:16:VAL:HG11	2.32	0.45
25:BA:1014:U:C2'	25:BA:1015:G:C5'	2.93	0.45
25:BA:1022:G:C5	25:BA:1139:G:N1	2.85	0.45
25:BA:1176:G:C5'	25:BA:1177:A:C8	2.99	0.45
25:BA:1208:C:C2	25:BA:1239:G:N2	2.84	0.45
25:BA:1288:U:C2	25:BA:1327:C:C2	3.05	0.45
25:BA:1327:C:H2'	25:BA:1328:G:H8	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1433:U:C6	25:BA:1433:U:O5'	2.69	0.45
25:BA:1465:G:N2	25:BA:1545(A):A:H1'	2.32	0.45
25:BA:1559:G:O6	25:BA:1560:G:C4'	2.64	0.45
25:BA:1743:G:C6	25:BA:1746:G:C5	3.04	0.45
25:BA:1748:G:C2'	25:BA:1749:A:O4'	2.63	0.45
25:BA:1901:A:HO2'	28:BD:244:ARG:HD2	1.82	0.45
25:BA:1906:G:C1'	25:BA:1929:G:N7	2.80	0.45
25:BA:1666:G:C2	25:BA:1995:U:O2	2.69	0.45
25:BA:2049:G:O2'	25:BA:2050:C:P	2.74	0.45
25:BA:2051:A:H3'	25:BA:2578:G:H5''	1.97	0.45
25:BA:2143:C:N4	25:BA:2144:U:O4	2.50	0.45
25:BA:2145:C:OP1	25:BA:2145:C:C6	2.70	0.45
3:AD:56:C:N4	25:BA:2169:A:C4	2.85	0.45
25:BA:2225:A:H5''	25:BA:2226:C:H5'	1.98	0.45
25:BA:2273:A:H2'	25:BA:2274:A:H5'	1.98	0.45
25:BA:231:C:N4	25:BA:232:G:C2	2.84	0.45
25:BA:2376:A:N6	40:BR:94:TYR:CD1	2.85	0.45
25:BA:2401:U:C2'	25:BA:2402:C:H5'	2.47	0.45
25:BA:2495:G:O3'	38:BP:83:MET:HE1	2.17	0.45
25:BA:2500:U:C5'	25:BA:2500:U:H6	2.29	0.45
25:BA:253:C:H2'	25:BA:254:G:O4'	2.16	0.45
25:BA:2580:U:C5	25:BA:2581:G:C8	3.05	0.45
25:BA:2590:A:C5	25:BA:2591:C:C5	3.04	0.45
25:BA:2702:U:OP1	25:BA:2702:U:O4'	2.34	0.45
25:BA:2790:A:H1'	25:BA:2893:G:N2	2.32	0.45
25:BA:2869:G:C2	25:BA:2870:C:C2	3.05	0.45
25:BA:2629:A:N7	25:BA:2895:U:C4	2.84	0.45
25:BA:2900:A:H2'	25:BA:2901:C:C6	2.52	0.45
25:BA:299:A:HO2'	25:BA:319:C:C3'	2.29	0.45
25:BA:415:A:C6	25:BA:416:C:O2	2.70	0.45
25:BA:509:C:C3'	25:BA:509:C:C6	3.00	0.45
25:BA:5:A:H4'	35:BM:134:ARG:HH12	1.82	0.45
25:BA:640:C:C3'	25:BA:641:C:C5'	2.95	0.45
25:BA:72:U:O2'	25:BA:73:A:P	2.75	0.45
25:BA:756:C:N4	25:BA:757:U:C4	2.84	0.45
25:BA:809:G:N1	25:BA:810:U:C5	2.85	0.45
26:BB:101:A:O2'	26:BB:102:G:H5'	2.17	0.45
27:BC:128:GLY:HA2	27:BC:137:LEU:HD11	1.99	0.45
27:BC:48:GLY:O	27:BC:208:PHE:HE1	1.99	0.45
27:BC:29:VAL:HG12	27:BC:30:LYS:H	1.82	0.45
27:BC:56:GLN:NE2	27:BC:203:GLY:CA	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:92:ILE:HD11	28:BD:104:TYR:CE1	2.52	0.45
28:BD:136:ILE:HD12	28:BD:168:ARG:HH12	1.80	0.45
28:BD:165:ILE:CD1	28:BD:165:ILE:N	2.79	0.45
28:BD:244:ARG:CB	28:BD:252:TRP:HD1	2.12	0.45
28:BD:51:VAL:HG12	28:BD:52:ARG:N	2.32	0.45
29:BE:111:ARG:HG2	29:BE:111:ARG:HH21	1.82	0.45
29:BE:205:ALA:O	29:BE:206:LYS:C	2.53	0.45
29:BE:8:LYS:O	29:BE:192:ASN:CB	2.63	0.45
29:BE:8:LYS:CD	29:BE:9:VAL:N	2.78	0.45
30:BF:194:MET:SD	30:BF:197:ASP:HB3	2.57	0.45
31:BG:135:LEU:C	31:BG:137:GLU:N	2.70	0.45
31:BG:175:LEU:HA	31:BG:175:LEU:HD23	1.74	0.45
31:BG:43:LEU:HD12	31:BG:88:ILE:O	2.17	0.45
32:BH:135:GLY:HA3	32:BH:141:VAL:HG22	1.98	0.45
33:BK:7:GLU:CA	33:BK:14:ASP:CG	2.64	0.45
33:BK:5:LEU:N	33:BK:5:LEU:CD2	2.69	0.45
33:BK:6:LEU:C	33:BK:8:PRO:HD3	2.34	0.45
35:BM:70:LYS:HD2	35:BM:86:PRO:HB3	1.92	0.45
35:BM:69:GLN:NE2	35:BM:70:LYS:NZ	2.64	0.45
36:BN:90:GLN:CD	36:BN:110:GLY:O	2.55	0.45
36:BN:92:GLU:OE1	36:BN:114:ILE:N	2.47	0.45
37:BO:36:LYS:HA	37:BO:36:LYS:HD3	1.55	0.45
37:BO:63:PRO:HD2	37:BO:65:ARG:HD2	1.99	0.45
25:BA:244:A:O3'	37:BO:65:ARG:NH2	2.48	0.45
38:BP:10:ARG:O	38:BP:11:LYS:O	2.34	0.45
38:BP:42:ILE:O	38:BP:94:VAL:CG2	2.65	0.45
38:BP:6:ARG:C	38:BP:6:ARG:CD	2.85	0.45
39:BQ:13:HIS:CD2	39:BQ:16:HIS:H	2.35	0.45
39:BQ:34:ILE:CG2	39:BQ:35:THR:H	2.30	0.45
39:BQ:96:ARG:CG	39:BQ:98:LEU:HD11	2.37	0.45
41:BS:1:MET:O	41:BS:5:ALA:CB	2.65	0.45
36:BN:72:PRO:CB	41:BS:84:GLN:NE2	2.56	0.45
43:BU:12:TYR:HE1	43:BU:98:GLU:OE2	1.99	0.45
43:BU:2:PHE:HB2	43:BU:13:ARG:NH2	2.29	0.45
25:BA:1224:G:C2'	43:BU:87:HIS:CE1	2.99	0.45
44:BV:16:LYS:HA	44:BV:19:LEU:CD1	2.24	0.45
47:BY:119:GLU:CG	47:BY:119:GLU:O	2.64	0.45
38:BP:137:TYR:HH	47:BY:123:ASP:HB3	1.76	0.45
48:BZ:72:ARG:C	48:BZ:73:GLY:O	2.52	0.45
33:BK:114:LEU:H	33:BK:131:LYS:NZ	2.15	0.45
33:BK:70:LYS:O	33:BK:71:ILE:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BL:132:ARG:N	34:BL:136:VAL:O	2.50	0.45
34:BL:60:TYR:C	34:BL:61:ALA:O	2.55	0.45
51:B3:13:ARG:O	51:B3:14:ILE:CG2	2.65	0.45
1:AA:95:G:O2'	1:AA:96:G:H5'	2.16	0.45
25:BA:2341:G:H2'	25:BA:2342:C:H6	1.75	0.45
25:BA:1193:G:C2	25:BA:1194:A:C4	3.05	0.45
6:AF:62:ASP:C	6:AF:62:ASP:OD1	2.55	0.45
1:AA:1153:C:N4	1:AA:1154:G:C6	2.84	0.45
1:AA:1195:C:C2	1:AA:1197:G:C8	3.04	0.45
1:AA:1244:C:C2	1:AA:1245:A:N7	2.85	0.45
1:AA:1256:A:H3'	6:AF:27:LYS:NZ	2.32	0.45
1:AA:1368:G:C6	1:AA:1369:C:C4	3.05	0.45
1:AA:1401:G:H2'	1:AA:1402:C:O4'	2.17	0.45
1:AA:1430:C:C2	1:AA:1431:C:C5	3.05	0.45
1:AA:1520:G:C2'	1:AA:1521:G:O5'	2.65	0.45
1:AA:1534:A:C6	1:AA:1535:C:C4	3.04	0.45
1:AA:68:G:C5'	1:AA:171:A:C1'	2.82	0.45
1:AA:148:G:N1	1:AA:175:C:C4	2.84	0.45
1:AA:293:G:N2	1:AA:294:U:N1	2.64	0.45
1:AA:377:G:O2'	1:AA:378:G:O5'	2.34	0.45
1:AA:62:U:C5'	1:AA:385:C:O2	2.65	0.45
1:AA:423:G:N2	1:AA:424:G:C5	2.85	0.45
1:AA:427:U:O2'	1:AA:428:G:OP1	2.30	0.45
1:AA:496:A:O2'	1:AA:497:U:OP1	2.33	0.45
1:AA:549:C:C2'	1:AA:550:G:O5'	2.65	0.45
1:AA:559:A:C8	1:AA:561:U:C5	3.05	0.45
1:AA:581:G:HO2'	1:AA:582:U:H6	1.63	0.45
1:AA:607:A:H2'	1:AA:608:A:C5'	2.46	0.45
1:AA:402:G:C4'	1:AA:620:C:H42	2.30	0.45
1:AA:867:G:N2	1:AA:868:C:C2	2.85	0.45
1:AA:928:G:O2'	1:AA:1533:C:C4'	2.64	0.45
1:AA:9:G:C6	1:AA:26:A:N6	2.84	0.45
2:AC:44:A:C2	2:AC:45:G:N3	2.85	0.45
2:AC:59:A:C5	2:AC:60:U:C5	3.05	0.45
2:AC:74:C:C3'	2:AC:75:C:C5'	2.94	0.45
3:AD:36:A:H2'	3:AD:37:A:H8	1.79	0.45
3:AD:75:C:H3'	3:AD:76:A:H4'	1.97	0.45
5:AE:169:LYS:HD3	5:AE:170:GLU:CA	2.46	0.45
5:AE:219:VAL:HG12	5:AE:223:ILE:CD1	2.47	0.45
5:AE:69:LEU:O	5:AE:162:ILE:CA	2.65	0.45
5:AE:97:TRP:C	5:AE:99:GLY:N	2.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:28:GLN:HA	6:AF:30:ARG:NH1	2.30	0.45
7:AG:13:ARG:NH1	7:AG:36:ARG:HB2	2.32	0.45
7:AG:207:TYR:O	7:AG:208:SER:C	2.55	0.45
7:AG:21:LEU:CD1	7:AG:67:ILE:CG2	2.88	0.45
7:AG:77:ASN:O	7:AG:78:LEU:C	2.55	0.45
8:AH:48:ALA:CB	8:AH:54:ALA:N	2.79	0.45
8:AH:71:LEU:CD2	8:AH:72:GLN:N	2.65	0.45
9:AI:2:ARG:O	9:AI:66:GLU:HB2	2.17	0.45
10:AJ:111:ARG:NH1	10:AJ:112:PRO:HD2	2.30	0.45
11:AK:99:GLU:O	11:AK:101:PRO:HD3	2.17	0.45
13:AM:8:LEU:HD13	13:AM:94:VAL:HB	1.97	0.45
13:AM:9:ARG:CD	13:AM:95:GLU:OE2	2.61	0.45
14:AN:19:ALA:CB	14:AN:80:VAL:HG21	2.46	0.45
16:AP:97:PRO:HG2	16:AP:103:THR:HG22	1.99	0.45
16:AP:91:ARG:O	16:AP:96:LEU:CD2	2.64	0.45
1:AA:43:C:C5'	19:AS:12:LYS:CB	2.89	0.45
19:AS:15:PRO:C	19:AS:16:HIS:ND1	2.70	0.45
19:AS:75:ARG:CA	19:AS:80:PHE:CB	2.76	0.45
20:AT:95:TYR:O	20:AT:96:GLN:C	2.55	0.45
21:AU:21:LYS:CG	21:AU:22:VAL:N	2.79	0.45
21:AU:79:LEU:O	21:AU:79:LEU:CD1	2.53	0.45
22:AV:51:VAL:HB	22:AV:58:VAL:HG22	1.98	0.45
22:AV:5:LEU:CB	22:AV:9:VAL:HG22	2.31	0.45
23:AW:57:ARG:C	23:AW:59:ALA:N	2.68	0.45
25:BA:78:A:OP1	49:B1:5:LEU:HD11	2.17	0.45
39:BQ:33:ARG:HH21	52:B4:56:LYS:HB2	1.80	0.45
52:B4:9:LYS:HE2	52:B4:10:LYS:CA	2.41	0.45
53:B5:33:LYS:O	53:B5:35:GLU:HB3	2.17	0.45
54:B6:14:LYS:O	54:B6:15:THR:C	2.54	0.45
55:B7:36:LYS:O	55:B7:37:SER:HB3	2.17	0.45
55:B7:50:LEU:HA	55:B7:53:PRO:CG	2.43	0.45
25:BA:1003:G:H2'	25:BA:1010:A:C2	2.51	0.45
25:BA:1118:C:H2'	25:BA:1119:C:O4'	2.17	0.45
25:BA:1137:G:C2'	25:BA:1138:G:O5'	2.64	0.45
25:BA:1012:U:C5	25:BA:1142:U:C5	3.04	0.45
25:BA:1182:A:C6	25:BA:1183:G:C6	3.04	0.45
25:BA:551:G:O5'	25:BA:1220:A:H2	2.00	0.45
25:BA:1264:G:N7	25:BA:1265:A:C4	2.85	0.45
25:BA:1283:G:N2	25:BA:1329:U:O4	2.48	0.45
25:BA:12:U:H5''	25:BA:13:A:OP2	2.17	0.45
25:BA:140:A:H2	25:BA:1408:C:HI'	1.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1420:U:H3'	25:BA:1420:U:H6	1.81	0.45
25:BA:1447:G:C2'	25:BA:1448:G:H5'	2.47	0.45
25:BA:1455:G:C2'	25:BA:1456:G:H5'	2.46	0.45
25:BA:1526:G:N2	25:BA:1546:C:C4	2.85	0.45
25:BA:1480:G:O5'	25:BA:1559:G:C2	2.70	0.45
25:BA:1568:G:C4'	28:BD:60:ARG:O	2.65	0.45
25:BA:768:G:C5'	25:BA:1622:G:H4'	2.37	0.45
25:BA:1795:C:C2'	25:BA:1796:U:C5'	2.95	0.45
25:BA:1911:U:O4	25:BA:1913:A:N6	2.49	0.45
25:BA:1989:G:C6	25:BA:1990:C:N3	2.85	0.45
25:BA:2016:U:C1'	52:B4:6:VAL:HG11	2.46	0.45
25:BA:2205:C:C2'	25:BA:2206:C:H5'	2.40	0.45
25:BA:2236:C:N4	25:BA:2237:G:N3	2.64	0.45
25:BA:2306:C:C4	25:BA:2311:A:N1	2.85	0.45
25:BA:2284:C:H1'	25:BA:2325:G:H1	1.82	0.45
25:BA:2330:G:O2'	48:BZ:42:GLY:HA3	2.17	0.45
25:BA:2331:G:H3'	25:BA:2332:U:C6	2.52	0.45
25:BA:2371:G:H4'	53:B5:46:HIS:HB3	1.99	0.45
25:BA:2391:G:HO2'	25:BA:2392:A:P	2.40	0.45
25:BA:2400:G:N1	25:BA:2401:U:C2	2.85	0.45
25:BA:410:G:N2	25:BA:2407:G:N7	2.65	0.45
25:BA:2546:U:H4'	25:BA:2565:A:C2	2.52	0.45
25:BA:2568:C:H2'	25:BA:2569:G:O5'	2.17	0.45
25:BA:2634:G:N3	25:BA:2635:C:C6	2.84	0.45
25:BA:2711:A:P	25:BA:2712(A):A:P	3.15	0.45
25:BA:2741:A:C2'	25:BA:2742:C:O5'	2.65	0.45
25:BA:2749:A:H62	25:BA:2753:A:H61	1.63	0.45
25:BA:2817:G:C6	25:BA:2818:G:C5	3.05	0.45
25:BA:2823:A:H2'	25:BA:2823:A:N3	2.32	0.45
25:BA:296:C:O2'	25:BA:297:C:C5'	2.64	0.45
25:BA:324:A:C2	25:BA:325:G:C1'	2.89	0.45
25:BA:375:C:H2'	25:BA:375:C:O2	2.15	0.45
25:BA:410:G:C2'	25:BA:411:G:H8	2.27	0.45
25:BA:627:A:N6	25:BA:636:G:HO2'	2.09	0.45
25:BA:659:C:H4'	30:BF:102:PRO:CD	2.46	0.45
25:BA:659:C:O2'	25:BA:660:G:H5'	2.17	0.45
25:BA:673:C:O2'	25:BA:674:G:H5'	2.16	0.45
25:BA:679:C:O2	25:BA:680:G:C8	2.70	0.45
25:BA:775:G:N2	25:BA:791:C:H41	2.14	0.45
25:BA:817:C:C2'	25:BA:818:G:H5'	2.46	0.45
25:BA:869:G:C2'	25:BA:870:A:H5''	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:923:C:H6	25:BA:923:C:C4'	2.29	0.45
25:BA:961:C:O2'	25:BA:962:G:P	2.75	0.45
25:BA:95:G:C6	25:BA:96:G:C8	3.05	0.45
25:BA:976:C:C2'	25:BA:976:C:O2	2.62	0.45
25:BA:976:C:H2'	25:BA:977:G:O5'	2.16	0.45
25:BA:980:A:H5''	25:BA:981:A:OP2	2.17	0.45
25:BA:84:A:C6	25:BA:99:U:H1'	2.52	0.45
27:BC:20:TYR:HB2	27:BC:21:THR:H	1.52	0.45
28:BD:117:VAL:CG1	28:BD:118:VAL:N	2.79	0.45
28:BD:123:ALA:HB1	28:BD:129:ASN:CB	2.41	0.45
28:BD:161:THR:O	28:BD:162:SER:CB	2.64	0.45
28:BD:266:SER:O	28:BD:267:SER:HB2	2.17	0.45
29:BE:152:LYS:HG2	35:BM:78:TYR:CB	2.35	0.45
29:BE:51:PHE:CD1	29:BE:52:LEU:N	2.85	0.45
30:BF:140:LEU:O	30:BF:141:ALA:C	2.55	0.45
30:BF:203:GLN:HE21	30:BF:206:ILE:HG13	1.82	0.45
31:BG:128:ARG:NH1	31:BG:130:ASN:HD21	2.14	0.45
32:BH:85:LYS:HZ3	32:BH:142:GLY:CA	2.29	0.45
33:BK:1:MET:CE	33:BK:27:ARG:HG3	2.47	0.45
35:BM:108:PRO:O	35:BM:113:GLY:HA3	2.17	0.45
35:BM:131:GLN:O	35:BM:132:ALA:C	2.55	0.45
25:BA:245:G:C5'	37:BO:63:PRO:O	2.64	0.45
37:BO:6:LEU:CD2	37:BO:6:LEU:O	2.64	0.45
37:BO:72:PRO:O	37:BO:74:GLU:N	2.50	0.45
39:BQ:14:SER:HA	39:BQ:17:ARG:HE	1.80	0.45
40:BR:15:ARG:CG	40:BR:15:ARG:NH2	2.74	0.45
41:BS:21:GLU:C	41:BS:21:GLU:CD	2.73	0.45
41:BS:7:ILE:C	41:BS:9:LEU:N	2.65	0.45
42:BT:53:ARG:HH11	42:BT:53:ARG:CG	2.29	0.45
42:BT:61:TRP:O	42:BT:65:ILE:CD1	2.65	0.45
42:BT:89:GLU:CD	43:BU:52:VAL:CB	2.84	0.45
43:BU:5:VAL:HB	43:BU:6:LYS:H	1.35	0.45
44:BV:4:LYS:CD	44:BV:4:LYS:N	2.71	0.45
44:BV:65:LEU:H	44:BV:65:LEU:CD2	2.28	0.45
46:BX:50:ARG:HB2	46:BX:54:LYS:CD	2.15	0.45
46:BX:53:PRO:C	46:BX:55:TYR:N	2.70	0.45
47:BY:31:ARG:NH2	47:BY:33:LEU:HD11	2.29	0.45
47:BY:10:ARG:NH1	47:BY:36:LYS:HB2	2.26	0.45
47:BY:2:GLU:C	47:BY:3:TYR:CD2	2.90	0.45
47:BY:41:LEU:O	47:BY:45:ASP:OD1	2.35	0.45
48:BZ:3:HIS:O	48:BZ:4:LYS:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1088:A:H2'	25:BA:1089:G:OP1	2.17	0.45
25:BA:2294:C:C2	25:BA:2295:C:C6	3.05	0.45
25:BA:1:G:H2'	25:BA:2:G:H8	1.81	0.45
1:AA:1092:A:H5''	10:AJ:4:ARG:HH22	1.82	0.45
1:AA:1179:A:H2'	1:AA:1180:A:C8	2.51	0.45
1:AA:1237:C:C4'	1:AA:1334:G:H21	2.29	0.45
1:AA:1243:C:P	24:AX:10:ARG:HD2	2.56	0.45
1:AA:1260:C:O2	1:AA:1260:C:H2'	2.16	0.45
1:AA:1273:G:C2'	1:AA:1274:G:H5'	2.47	0.45
1:AA:1277:C:H2'	1:AA:1279:A:H8	1.80	0.45
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.34	0.45
1:AA:1323:G:C2	1:AA:1324:A:C5	3.04	0.45
1:AA:1331:G:C2'	1:AA:1332:A:OP2	2.65	0.45
1:AA:220:G:C5	1:AA:221:C:C5	3.05	0.45
1:AA:263:A:OP1	23:AW:79:ARG:HD3	2.16	0.45
1:AA:354:G:C2'	1:AA:355:C:O5'	2.64	0.45
1:AA:391:G:C6	1:AA:392:G:C5	3.05	0.45
1:AA:425:G:O3'	7:AG:45:GLN:OE1	2.34	0.45
1:AA:544:G:H2'	1:AA:545:C:O4'	2.17	0.45
1:AA:67:C:H1'	1:AA:172:A:N3	2.32	0.45
1:AA:695:A:C6	1:AA:696:A:C5	3.05	0.45
1:AA:755:G:OP2	18:AR:65:ARG:CD	2.65	0.45
1:AA:874:G:H2'	1:AA:875:C:H5'	1.99	0.45
1:AA:877:C:H2'	1:AA:878:G:H8	1.82	0.45
2:AC:44:A:N6	2:AC:45:G:N2	2.65	0.45
2:AC:16:C:H5'	2:AC:60:U:O2'	2.17	0.45
2:AC:61:C:H2'	2:AC:62:C:C6	2.52	0.45
5:AE:167:PRO:HG2	5:AE:192:SER:OG	2.17	0.45
5:AE:33:TYR:HB2	5:AE:42:ILE:C	2.37	0.45
6:AF:124:ILE:HD11	6:AF:130:VAL:CG1	2.47	0.45
6:AF:173:VAL:O	6:AF:175:LEU:CD1	2.65	0.45
7:AG:150:GLU:C	7:AG:152:SER:H	2.19	0.45
7:AG:20:TYR:O	7:AG:26:CYS:SG	2.75	0.45
8:AH:145:LYS:C	8:AH:148:VAL:HG23	2.37	0.45
8:AH:18:ARG:NH2	8:AH:25:ARG:HB2	2.31	0.45
8:AH:47:LYS:CD	8:AH:47:LYS:N	2.80	0.45
9:AI:45:LEU:CG	9:AI:59:TYR:CD1	2.83	0.45
10:AJ:135:VAL:HG12	10:AJ:139:GLU:OE2	2.17	0.45
11:AK:100:ILE:O	11:AK:102:ARG:N	2.50	0.45
11:AK:45:ILE:HB	11:AK:61:VAL:HG11	1.98	0.45
11:AK:6:ILE:CG2	11:AK:85:ARG:NH1	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:684:A:C1'	14:AN:38:ASN:HB3	2.47	0.45
15:AO:42:THR:HG23	15:AO:42:THR:O	2.15	0.45
15:AO:39:VAL:HG21	15:AO:57:LYS:HD2	1.98	0.45
15:AO:97:ARG:HB3	15:AO:98:TYR:CE1	2.52	0.45
17:AQ:21:TYR:CD1	17:AQ:21:TYR:N	2.84	0.45
17:AQ:26:ARG:HD2	17:AQ:47:LEU:HD12	1.95	0.45
17:AQ:22:THR:CG2	17:AQ:33:VAL:HG23	2.47	0.45
13:AM:11:PHE:HE1	17:AQ:54:PRO:HB2	1.81	0.45
6:AF:29:TYR:OH	17:AQ:54:PRO:O	2.35	0.45
9:AI:2:ARG:NH2	18:AR:2:PRO:HG2	2.30	0.45
1:AA:666:G:N2	18:AR:52:SER:OG	2.46	0.45
18:AR:57:LEU:H	18:AR:57:LEU:CD1	2.29	0.45
18:AR:62:GLN:O	18:AR:63:ARG:C	2.55	0.45
21:AU:36:ASN:OD1	21:AU:39:VAL:CB	2.64	0.45
21:AU:47:THR:C	21:AU:49:LYS:HZ2	2.20	0.45
22:AV:15:LEU:HG	22:AV:16:LEU:HD13	1.98	0.45
1:AA:1242:C:C5'	24:AX:10:ARG:NH1	2.79	0.45
49:B1:23:LYS:HZ2	49:B1:55:LEU:CD2	2.30	0.45
49:B1:30:LEU:HD23	49:B1:30:LEU:H	1.81	0.45
50:B2:22:ALA:CB	50:B2:46:ASN:OD1	2.55	0.45
50:B2:9:VAL:CG2	50:B2:53:LEU:HA	2.47	0.45
53:B5:20:ASN:OD1	53:B5:42:TRP:NE1	2.50	0.45
54:B6:32:LYS:O	54:B6:33:ARG:C	2.54	0.45
54:B6:41:ARG:CG	54:B6:42:LEU:H	2.29	0.45
37:BO:53:GLY:O	55:B7:12:LYS:HD3	2.15	0.45
55:B7:16:ILE:CG1	55:B7:22:VAL:HG22	2.47	0.45
55:B7:33:ASN:O	55:B7:34:TRP:CG	2.70	0.45
25:BA:1147:C:O5'	25:BA:1147:C:H6	1.99	0.45
25:BA:1183:G:O3'	25:BA:1183:G:OP2	2.35	0.45
25:BA:1268:A:H1'	25:BA:2013:A:N6	2.32	0.45
25:BA:1300:U:C6	25:BA:1300:U:O5'	2.70	0.45
25:BA:1339:G:C2	25:BA:1603:A:C8	3.04	0.45
25:BA:1352:U:C1'	25:BA:1570:A:H2	2.30	0.45
25:BA:1366:A:C2'	25:BA:1367:A:O5'	2.65	0.45
25:BA:1369:G:H2'	25:BA:1370:C:H5'	1.97	0.45
25:BA:1426:G:H3'	25:BA:1427:A:H8	1.80	0.45
25:BA:1485:G:C6	25:BA:1486:A:C6	3.04	0.45
25:BA:1558:A:C2	25:BA:1560:G:C8	3.04	0.45
25:BA:1580:A:C2'	25:BA:1581:G:C1'	2.95	0.45
25:BA:1754:C:H5'	41:BS:104:ASN:HD21	1.78	0.45
25:BA:1799:G:N1	28:BD:157:ARG:NH1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1815:A:H1'	25:BA:1817:G:C5	2.52	0.45
25:BA:1915:U:N1	25:BA:1915:U:OP2	2.50	0.45
25:BA:1919:A:C5	25:BA:1919:A:OP2	2.70	0.45
25:BA:1649:G:O6	25:BA:2009:G:C6	2.70	0.45
25:BA:2033:A:C2	25:BA:2036:C:C5	3.04	0.45
25:BA:2069:G:O2'	25:BA:2070:G:H5'	2.17	0.45
25:BA:2078:C:H5'	25:BA:2434:A:H4'	1.99	0.45
25:BA:2211:G:C3'	25:BA:2211:G:N3	2.77	0.45
25:BA:2230:G:C2	25:BA:2231:C:C5	3.05	0.45
25:BA:2259:G:N1	25:BA:2282:G:C6	2.85	0.45
25:BA:2251:G:N9	25:BA:2450:A:H1'	2.31	0.45
25:BA:2461:C:H2'	25:BA:2462:U:O5'	2.16	0.45
3:AD:76:A:N6	25:BA:248:G:O4'	2.49	0.45
25:BA:2513:G:H2'	25:BA:2514:U:C5	2.51	0.45
25:BA:255:A:H2'	25:BA:256:A:O4'	2.17	0.45
25:BA:2622:C:H5'	29:BE:159:HIS:ND1	2.31	0.45
25:BA:1050:A:N6	25:BA:2751:G:C5	2.85	0.45
25:BA:2843:G:C4	25:BA:2844:G:N7	2.84	0.45
25:BA:2848:G:N2	25:BA:2849:U:H3	2.15	0.45
25:BA:299:A:HO2'	25:BA:319:C:C4'	2.27	0.45
25:BA:298:G:H5''	25:BA:299:A:OP1	2.17	0.45
25:BA:306:U:H5	25:BA:307:G:N9	2.14	0.45
25:BA:332:A:C2	25:BA:335:C:C6	3.04	0.45
25:BA:336:C:H2'	25:BA:336:C:O2	2.17	0.45
25:BA:428:A:N3	25:BA:429:A:C8	2.84	0.45
25:BA:473:G:N2	25:BA:474:G:C4	2.84	0.45
25:BA:52:A:C4	25:BA:53:A:C8	3.04	0.45
25:BA:52:A:H2'	25:BA:53:A:O4'	2.17	0.45
25:BA:563:G:C5	25:BA:2018:G:C6	3.04	0.45
25:BA:55:G:C4	25:BA:56:A:C8	3.05	0.45
25:BA:569:U:C2	25:BA:570:G:C2	3.05	0.45
25:BA:713:G:O2'	25:BA:714:U:OP2	2.29	0.45
25:BA:714:U:C5'	25:BA:715:G:OP2	2.65	0.45
25:BA:720:C:O2'	25:BA:721:C:C5'	2.65	0.45
25:BA:728:G:O2'	25:BA:729:G:OP2	2.34	0.45
25:BA:869:G:H2'	25:BA:870:A:H5''	1.98	0.45
25:BA:949:C:H2'	25:BA:950:G:H8	1.82	0.45
25:BA:989:G:OP2	50:B2:12:PRO:HG3	2.17	0.45
26:BB:32:C:H5'	26:BB:33:G:OP2	2.17	0.45
27:BC:200:LYS:NZ	27:BC:208:PHE:CE2	2.85	0.45
25:BA:1790:C:H1'	28:BD:213:ARG:HH22	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:239:ARG:HD2	28:BD:239:ARG:N	2.32	0.45
28:BD:275:LYS:CG	28:BD:275:LYS:O	2.65	0.45
28:BD:34:VAL:HG21	28:BD:94:LEU:HD21	1.99	0.45
28:BD:31:LYS:HD2	28:BD:83:GLU:HB3	1.95	0.45
29:BE:101:ARG:HD3	29:BE:101:ARG:HA	1.72	0.45
29:BE:108:SER:O	29:BE:108:SER:OG	2.33	0.45
30:BF:123:LEU:HB2	30:BF:192:LEU:O	2.16	0.45
31:BG:10:LYS:O	31:BG:11:TYR:C	2.55	0.45
31:BG:13:GLU:O	31:BG:17:PRO:CD	2.65	0.45
31:BG:37:VAL:HG13	31:BG:159:VAL:HG12	1.97	0.45
31:BG:165:THR:O	31:BG:168:GLU:HB2	2.17	0.45
32:BH:167:GLU:N	32:BH:167:GLU:OE1	2.45	0.45
33:BK:24:GLY:O	33:BK:25:TYR:C	2.55	0.45
36:BN:107:ARG:O	36:BN:108:GLU:C	2.54	0.45
36:BN:66:LYS:O	36:BN:67:LYS:CB	2.65	0.45
25:BA:2684:U:O2'	36:BN:67:LYS:HG3	2.17	0.45
37:BO:97:PRO:O	37:BO:99:LEU:N	2.49	0.45
25:BA:2495:G:O3'	38:BP:83:MET:CE	2.64	0.45
38:BP:22:LYS:CD	38:BP:99:PRO:CB	2.87	0.45
40:BR:27:SER:O	40:BR:28:VAL:C	2.55	0.45
40:BR:57:LYS:HD3	40:BR:57:LYS:C	2.37	0.45
43:BU:6:LYS:CG	43:BU:10:LYS:O	2.64	0.45
43:BU:14:VAL:CG1	43:BU:19:LYS:HG3	2.40	0.45
43:BU:38:LEU:HD12	43:BU:55:ALA:HA	1.99	0.45
43:BU:90:PRO:C	43:BU:91:TYR:CD1	2.90	0.45
44:BV:11:ARG:CB	44:BV:98:LYS:HD2	2.46	0.45
44:BV:30:GLU:O	44:BV:33:ARG:HB3	2.17	0.45
44:BV:34:ASN:HA	44:BV:37:ARG:CG	2.47	0.45
45:BW:18:TYR:HA	45:BW:21:PHE:CE1	2.52	0.45
45:BW:89:ILE:CG2	45:BW:92:LEU:HB2	2.47	0.45
45:BW:6:ASP:O	45:BW:8:ILE:HG12	2.17	0.45
46:BX:15:VAL:CG1	46:BX:16:ALA:H	2.17	0.45
47:BY:102:LEU:HD11	47:BY:125:LEU:HD12	1.98	0.45
47:BY:48:PHE:CB	47:BY:54:HIS:HE2	2.30	0.45
25:BA:2255:G:C1'	48:BZ:7:LEU:HD21	2.47	0.45
25:BA:1076:C:O2	34:BL:91:PRO:HD2	2.17	0.45
8:AH:36:ASP:C	8:AH:38:GLN:N	2.70	0.45
14:AN:112:THR:O	14:AN:112:THR:HG22	2.17	0.45
23:AW:94:ALA:O	23:AW:95:ALA:HB3	2.16	0.45
25:BA:2669:G:H2'	25:BA:2670:A:O5'	2.17	0.45
4:A1:18:G:H5'	4:A1:19:A:OP1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1085:U:OP2	1:AA:1086:U:O4	2.34	0.45
1:AA:1265:G:H2'	1:AA:1266:G:C5'	2.24	0.45
1:AA:1273:G:C3'	1:AA:1274:G:H8	2.28	0.45
1:AA:1410:G:C6	1:AA:1411:C:C4	3.05	0.45
1:AA:1468:A:H3'	1:AA:1468:A:P	2.57	0.45
1:AA:129(A):G:O6	1:AA:188:U:H4'	2.14	0.45
1:AA:190:G:H5''	1:AA:191(A):G:C8	2.52	0.45
1:AA:223:U:O2'	1:AA:224:C:H5'	2.17	0.45
1:AA:124:G:N2	1:AA:238:G:C4	2.85	0.45
1:AA:118:U:O4	1:AA:289:G:H4'	2.16	0.45
1:AA:322:C:H42	1:AA:332:G:N2	2.15	0.45
1:AA:359:U:H2'	1:AA:360:A:C8	2.52	0.45
1:AA:362:G:H2'	1:AA:364:A:OP2	2.16	0.45
1:AA:429:U:H4'	1:AA:430:A:C5'	2.46	0.45
1:AA:65:U:C6	1:AA:381:C:N4	2.85	0.45
1:AA:678:U:O2'	1:AA:679:C:O5'	2.26	0.45
1:AA:729:A:C2	1:AA:730:G:H1'	2.52	0.45
1:AA:69:G:C2	1:AA:73:G:N7	2.85	0.45
1:AA:818:G:HO2'	1:AA:819:A:P	2.33	0.45
1:AA:993:G:O2'	1:AA:994:A:P	2.75	0.45
2:AC:36:U:H6	2:AC:36:U:C5'	2.30	0.45
2:AC:70:G:H2'	2:AC:70:G:N3	2.32	0.45
3:AD:1:G:O2'	3:AD:2:C:H5'	2.16	0.45
3:AD:36:A:C2'	3:AD:37:A:C8	2.99	0.45
3:AD:39:U:O2	3:AD:39:U:H2'	2.17	0.45
5:AE:140:HIS:HA	5:AE:143:GLU:OE1	2.17	0.45
5:AE:234:PRO:C	5:AE:238:LEU:HD22	2.36	0.45
6:AF:11:ARG:O	6:AF:12:LEU:C	2.55	0.45
6:AF:78:GLY:CA	6:AF:82:GLU:OE1	2.62	0.45
7:AG:150:GLU:O	7:AG:151:LYS:C	2.54	0.45
7:AG:143:GLY:HA2	7:AG:185:PHE:CG	2.52	0.45
7:AG:13:ARG:NH1	7:AG:36:ARG:HB3	2.31	0.45
8:AH:33:VAL:O	8:AH:34:VAL:HG23	2.17	0.45
8:AH:86:ALA:O	8:AH:125:SER:CB	2.65	0.45
10:AJ:42:ILE:O	10:AJ:43:PHE:C	2.55	0.45
10:AJ:64:GLN:O	10:AJ:68:ASN:ND2	2.50	0.45
11:AK:101:PRO:O	11:AK:102:ARG:CG	2.65	0.45
11:AK:29:SER:O	11:AK:33:GLU:HB2	2.17	0.45
11:AK:63:LEU:HD12	11:AK:65:TYR:CE1	2.52	0.45
11:AK:63:LEU:HB2	11:AK:65:TYR:CE1	2.51	0.45
12:AL:40:LEU:HB3	12:AL:42:ARG:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:964:A:C2'	13:AM:55:LYS:HZ3	2.28	0.45
13:AM:61:GLU:OE1	17:AQ:58:LYS:NZ	2.40	0.45
14:AN:69:ALA:O	14:AN:71:LYS:N	2.50	0.45
1:AA:1230:C:O2'	16:AP:126:LYS:CE	2.62	0.45
19:AS:8:ARG:HD2	19:AS:8:ARG:O	2.16	0.45
20:AT:29:HIS:HB2	20:AT:36:ILE:HG23	1.98	0.45
21:AU:72:ARG:HA	21:AU:75:ILE:CG1	2.45	0.45
49:B1:41:GLN:O	49:B1:42:ASN:C	2.54	0.45
49:B1:16:LEU:CD2	49:B1:58:VAL:HG22	2.46	0.45
50:B2:3:ARG:HH12	50:B2:59:VAL:CG1	2.25	0.45
51:B3:29:PRO:CG	51:B3:30:GLU:N	2.75	0.45
25:BA:2046:G:H1'	52:B4:22:HIS:ND1	2.30	0.45
53:B5:33:LYS:O	53:B5:35:GLU:CB	2.65	0.45
55:B7:26:LYS:C	55:B7:28:GLY:H	2.20	0.45
25:BA:1006:C:H2'	25:BA:1007:C:H6	1.81	0.45
25:BA:1050:A:H2'	25:BA:1051:G:O4'	2.17	0.45
25:BA:1205:U:O3'	25:BA:1206:G:C8	2.68	0.45
25:BA:1250:G:O2'	25:BA:1251:C:OP2	2.30	0.45
25:BA:1336:A:C2	25:BA:1337:G:C4	3.05	0.45
25:BA:1403:C:O3'	25:BA:1471:A:H4'	2.16	0.45
25:BA:141:A:C5	25:BA:1596:A:O2'	2.69	0.45
25:BA:141:A:C6	25:BA:141(A):C:Cl'	3.00	0.45
25:BA:1489:U:O2'	25:BA:1490:A:P	2.75	0.45
25:BA:1491:G:H22	25:BA:1493:C:H41	1.59	0.45
25:BA:1559:G:N3	25:BA:1559:G:C2'	2.78	0.45
25:BA:1429:G:N2	25:BA:1565:C:O2	2.50	0.45
25:BA:1579:A:C2'	25:BA:1580:A:H5'	2.47	0.45
25:BA:1617:C:C5'	25:BA:1618:A:OP2	2.65	0.45
25:BA:1689:A:C4	25:BA:1700:A:N1	2.84	0.45
25:BA:1707:G:O2'	25:BA:1758:G:N2	2.42	0.45
25:BA:1777:U:H2'	25:BA:1778:U:O5'	2.16	0.45
25:BA:1815:A:O4'	25:BA:1817:G:C4	2.70	0.45
25:BA:1948:G:C2	25:BA:1949:G:C8	3.04	0.45
25:BA:1951:U:C2	25:BA:1953:A:C5'	3.00	0.45
25:BA:2090:G:C5	25:BA:2230:G:O6	2.70	0.45
25:BA:2114:A:O5'	25:BA:2114:A:C8	2.68	0.45
25:BA:2173:A:C2	27:BC:218:MET:SD	3.10	0.45
25:BA:2311:A:H2'	25:BA:2311:A:N3	2.31	0.45
25:BA:244:A:N6	25:BA:245:G:N3	2.64	0.45
25:BA:2519:U:C4'	25:BA:2520:C:OP1	2.65	0.45
25:BA:2544:G:O5'	25:BA:2544:G:H8	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2567:G:H2'	25:BA:2568:C:C6	2.52	0.45
25:BA:2600:A:C6	25:BA:2601:C:N4	2.85	0.45
25:BA:2644:G:O3'	25:BA:2645:G:O4'	2.34	0.45
25:BA:273(E):U:O5'	25:BA:273(E):U:H6	2.00	0.45
25:BA:2807:G:N3	25:BA:2808:U:C5	2.85	0.45
25:BA:106:C:O2'	25:BA:294:A:H5'	2.17	0.45
25:BA:388:G:HO2'	25:BA:390:A:H62	1.64	0.45
25:BA:216:A:N6	25:BA:432:A:H1'	2.31	0.45
25:BA:452:G:C2	25:BA:458:G:N2	2.84	0.45
25:BA:456:C:N3	45:BW:69:TYR:HB2	2.32	0.45
25:BA:547:A:C5	25:BA:548:A:C5	3.05	0.45
25:BA:591:C:C4	25:BA:592:G:C5	3.05	0.45
25:BA:602:G:N2	25:BA:655:A:H3'	2.31	0.45
25:BA:643:A:C1'	25:BA:644:A:C8	2.88	0.45
25:BA:653:A:N7	25:BA:655:A:O4'	2.50	0.45
25:BA:696:G:C5	25:BA:697:C:C5	3.05	0.45
25:BA:713:G:C2'	25:BA:713:G:N3	2.68	0.45
25:BA:70:G:H4'	25:BA:71:A:O5'	2.17	0.45
25:BA:729:G:H2'	25:BA:730:C:H1'	1.96	0.45
25:BA:753:C:H2'	25:BA:754:C:C6	2.51	0.45
25:BA:763:G:H2'	25:BA:763:G:H8	1.65	0.45
25:BA:775:G:OP1	25:BA:777:A:H1'	2.17	0.45
25:BA:931:G:O2'	50:B2:24:LYS:CE	2.64	0.45
25:BA:569:U:H1'	25:BA:947:G:O4'	2.16	0.45
25:BA:995:C:N4	35:BM:3:THR:HG23	2.31	0.45
26:BB:73:A:O2'	26:BB:74:U:O5'	2.34	0.45
26:BB:82:G:C4	26:BB:83:G:N7	2.85	0.45
27:BC:120:MET:HG3	27:BC:145:VAL:CG1	2.47	0.45
27:BC:89:ALA:HB2	27:BC:154:ARG:HG3	1.95	0.45
28:BD:116:GLN:HG2	28:BD:117:VAL:N	2.32	0.45
28:BD:259:THR:HG22	28:BD:260:ARG:N	2.20	0.45
28:BD:8:PRO:HD3	28:BD:28:GLU:OE2	2.17	0.45
28:BD:37:LEU:HA	28:BD:37:LEU:HD22	1.70	0.45
29:BE:156:MET:CG	29:BE:157:ALA:H	2.27	0.45
29:BE:104:VAL:CG1	29:BE:196:VAL:CG1	2.95	0.45
29:BE:60:ASN:HD21	29:BE:61:ARG:HD3	1.81	0.45
30:BF:122:LYS:CE	30:BF:122:LYS:HA	2.44	0.45
30:BF:181:LEU:HB2	30:BF:182:ASN:H	1.58	0.45
30:BF:36:VAL:CG1	30:BF:183:VAL:HB	2.47	0.45
25:BA:38:A:N3	30:BF:48:THR:HG21	2.31	0.45
30:BF:4:VAL:O	30:BF:20:LEU:HD12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1257:C:H4'	30:BF:83:PHE:CD1	2.52	0.45
31:BG:114:ILE:CD1	31:BG:115:ARG:HH21	2.25	0.45
31:BG:12:TYR:CD1	31:BG:12:TYR:C	2.90	0.45
31:BG:150:ASP:O	31:BG:151:ALA:C	2.55	0.45
31:BG:30:GLU:C	31:BG:32:PRO:HA	2.38	0.45
31:BG:40:ASN:ND2	31:BG:41:GLN:N	2.65	0.45
31:BG:47:LYS:HD3	31:BG:72:ARG:CB	2.44	0.45
31:BG:47:LYS:HD2	31:BG:53:LEU:HD11	1.99	0.45
32:BH:7:LEU:CG	32:BH:51:ARG:HD3	2.43	0.45
32:BH:56:SER:OG	32:BH:57:ASP:N	2.49	0.45
33:BK:31:LEU:HD13	33:BK:36:ALA:CB	2.47	0.45
25:BA:2641:G:H5''	35:BM:75:TYR:HB2	1.98	0.45
35:BM:8:GLN:OE1	35:BM:9:VAL:HG22	2.17	0.45
36:BN:112:MET:HA	36:BN:115:VAL:HG23	1.99	0.45
36:BN:42:SER:HB2	36:BN:56:ASP:HB3	1.99	0.45
36:BN:97:ARG:CD	36:BN:118:ALA:CB	2.95	0.45
30:BF:38:ARG:HH12	37:BO:10:PRO:HA	1.82	0.45
30:BF:34:TRP:CE3	37:BO:8:PRO:HD2	2.50	0.45
25:BA:2484:G:O2'	38:BP:46:GLN:HG3	2.17	0.45
38:BP:77:LYS:HG3	38:BP:87:LYS:O	2.16	0.45
39:BQ:34:ILE:O	39:BQ:113:LEU:HA	2.17	0.45
39:BQ:100:LEU:CD2	39:BQ:113:LEU:HB2	2.47	0.45
39:BQ:56:LYS:HD3	39:BQ:94:TYR:CE1	2.52	0.45
39:BQ:73:VAL:HG12	39:BQ:77:ARG:HD3	1.99	0.45
39:BQ:82:GLU:HB3	39:BQ:83:ILE:CD1	2.47	0.45
41:BS:23:ARG:HH22	41:BS:90:GLN:H	0.69	0.45
42:BT:112:ARG:HH12	43:BU:50:PRO:CB	2.28	0.45
42:BT:61:TRP:O	42:BT:65:ILE:CG1	2.65	0.45
44:BV:18:ARG:HD2	44:BV:18:ARG:HA	1.80	0.45
44:BV:70:TYR:CD1	44:BV:71:VAL:O	2.69	0.45
47:BY:10:ARG:NH1	47:BY:36:LYS:CG	2.80	0.45
47:BY:122:ARG:HH21	47:BY:169:GLU:HB3	1.82	0.45
47:BY:31:ARG:O	47:BY:33:LEU:N	2.50	0.45
47:BY:70:LEU:HD12	47:BY:70:LEU:H	1.81	0.45
47:BY:87:ASP:OD2	47:BY:87:ASP:N	2.49	0.45
48:BZ:14:ARG:N	48:BZ:14:ARG:HD3	2.30	0.45
25:BA:2355:C:P	48:BZ:25:ARG:HH22	2.38	0.45
48:BZ:72:ARG:HB2	48:BZ:76:GLY:O	2.17	0.45
33:BK:109:ILE:CG2	33:BK:113:ARG:HH21	2.30	0.45
25:BA:1076:C:C4'	34:BL:93:ARG:NH2	2.80	0.45
26:BB:87:G:O2'	26:BB:89:G:C6	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:122:GLU:O	6:AF:125:GLU:CB	2.55	0.45
1:AA:102:G:H2'	1:AA:151:A:H2	1.82	0.44
1:AA:1046:A:N3	1:AA:1046:A:C2'	2.79	0.44
1:AA:1095:U:N3	1:AA:1096:C:C5	2.86	0.44
1:AA:1154:G:O2'	1:AA:1155:G:C5'	2.65	0.44
1:AA:1173:G:C2	1:AA:1174:G:C8	3.06	0.44
1:AA:986:A:N6	1:AA:1220:G:C6	2.85	0.44
1:AA:1305:G:N2	1:AA:1331:G:N3	2.65	0.44
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.17	0.44
1:AA:244:U:C6	1:AA:894:G:C2	3.04	0.44
1:AA:254:G:H2'	1:AA:255:G:C8	2.51	0.44
1:AA:447:G:H21	1:AA:487:A:H62	1.65	0.44
1:AA:520:A:C8	1:AA:520:A:H3'	2.52	0.44
1:AA:520:A:N7	1:AA:521:G:O4'	2.49	0.44
1:AA:61:G:C5	1:AA:62:U:N3	2.86	0.44
1:AA:620:C:C5	1:AA:621:A:C5	3.05	0.44
1:AA:708:C:N3	1:AA:709:G:N7	2.64	0.44
1:AA:710:G:O2'	1:AA:711:G:H5'	2.16	0.44
1:AA:716:A:C2'	1:AA:717:C:H5'	2.47	0.44
1:AA:862:C:C4	1:AA:863:U:C5	3.04	0.44
1:AA:862:C:C6	1:AA:863:U:H5	2.34	0.44
1:AA:886:G:H2'	1:AA:887:G:C5'	2.47	0.44
1:AA:8:A:H3'	1:AA:8:A:P	2.56	0.44
1:AA:20:U:C5	1:AA:916:G:N2	2.85	0.44
1:AA:980:C:C4	1:AA:981:U:O2	2.70	0.44
1:AA:987:G:O2'	1:AA:988:G:H5'	2.17	0.44
2:AC:34:C:C2'	2:AC:35:A:C5'	2.72	0.44
3:AD:19:G:C5'	3:AD:20:U:C4	3.00	0.44
3:AD:48:C:OP1	3:AD:48:C:C6	2.70	0.44
5:AE:208:ILE:O	5:AE:209:ARG:C	2.54	0.44
5:AE:84:GLU:O	5:AE:219:VAL:HG21	2.17	0.44
6:AF:179:ARG:O	6:AF:181:ASN:ND2	2.50	0.44
6:AF:92:ALA:HA	6:AF:96:GLY:O	2.17	0.44
7:AG:120:LEU:CG	7:AG:121:VAL:N	2.80	0.44
1:AA:403:C:HO2'	7:AG:122:ARG:NH1	2.12	0.44
7:AG:152:SER:O	7:AG:155:LEU:HD23	2.17	0.44
7:AG:201:GLN:O	7:AG:202:LEU:C	2.55	0.44
7:AG:13:ARG:HH21	7:AG:40:PRO:HA	1.81	0.44
1:AA:737:A:H5''	9:AI:92:LYS:HG3	1.99	0.44
10:AJ:64:GLN:CG	10:AJ:128:ALA:HB1	2.47	0.44
10:AJ:86:GLN:O	10:AJ:148:ASN:CB	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:104:ARG:O	12:AL:105:ASP:CB	2.65	0.44
12:AL:28:VAL:C	12:AL:30:GLY:N	2.70	0.44
12:AL:40:LEU:HB2	12:AL:42:ARG:HB2	1.99	0.44
12:AL:66:ARG:HG2	12:AL:67:GLY:H	1.82	0.44
16:AP:39:ILE:CD1	16:AP:56:LEU:HD13	2.38	0.44
18:AR:3:ILE:HA	18:AR:38:ARG:CZ	2.47	0.44
19:AS:51:VAL:HB	19:AS:77:ALA:CB	2.47	0.44
20:AT:13:ASP:CG	20:AT:14:LYS:N	2.71	0.44
20:AT:18:THR:HG23	20:AT:69:LYS:HE3	1.99	0.44
20:AT:97:SER:C	20:AT:98:LEU:HD22	2.37	0.44
49:B1:50:ARG:CG	49:B1:50:ARG:HH21	2.29	0.44
50:B2:50:VAL:HG13	50:B2:53:LEU:CB	2.46	0.44
51:B3:10:VAL:HG11	51:B3:41:PRO:HG3	1.99	0.44
51:B3:64:GLY:O	51:B3:67:TYR:HB2	2.17	0.44
53:B5:12:GLU:HG2	53:B5:13:CYS:H	1.81	0.44
53:B5:22:ALA:CB	53:B5:39:TYR:CE2	3.00	0.44
55:B7:52:LYS:HB3	55:B7:53:PRO:CD	2.46	0.44
25:BA:9:U:H2'	25:BA:10:G:H5'	1.98	0.44
25:BA:1252:G:C3'	25:BA:1253:A:O4'	2.62	0.44
25:BA:1539:G:C2'	25:BA:1540:G:O5'	2.66	0.44
25:BA:1605:C:O4'	25:BA:1610:A:C5	2.71	0.44
25:BA:1718:G:H8	25:BA:1718:G:H3'	1.82	0.44
25:BA:1731:G:C3'	25:BA:1731:G:N3	2.80	0.44
25:BA:178:G:H8	25:BA:178:G:O5'	2.00	0.44
25:BA:1364:G:C5'	25:BA:1809:A:C5	3.00	0.44
25:BA:1871:A:C2'	25:BA:1872:A:H8	2.30	0.44
25:BA:1969:A:O2'	25:BA:1972:A:H1'	2.17	0.44
25:BA:204:A:P	25:BA:204:A:H8	2.40	0.44
25:BA:2141:G:H2'	25:BA:2142:C:O4'	2.17	0.44
25:BA:2210:G:C2	28:BD:70:TRP:CD1	3.05	0.44
25:BA:223:A:C6	25:BA:408:G:C1'	3.00	0.44
25:BA:2251:G:C5	25:BA:2450:A:O2'	2.63	0.44
25:BA:2283:C:C4	25:BA:2389:G:C2	3.05	0.44
25:BA:2327:A:N1	25:BA:2388:A:C2	2.85	0.44
25:BA:2323:G:N2	25:BA:2331:G:N2	2.65	0.44
25:BA:2423:U:C2'	25:BA:2424:C:OP2	2.65	0.44
25:BA:242:G:HO2'	25:BA:243:U:P	2.40	0.44
25:BA:2465:C:O3'	56:B8:5:ALA:CB	2.63	0.44
25:BA:2482:G:N7	25:BA:2483:C:C5	2.85	0.44
25:BA:2494:G:O2'	38:BP:80:GLU:O	2.34	0.44
25:BA:2051:A:H2'	25:BA:2578:G:OP1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1938:A:H2	25:BA:2590:A:H1'	1.78	0.44
25:BA:273(F):C:C5	25:BA:274:G:C8	3.05	0.44
25:BA:274:G:C3'	25:BA:274:G:N3	2.79	0.44
25:BA:27:G:O2'	25:BA:28:A:H8	1.98	0.44
25:BA:2692:C:H1'	25:BA:2847:U:O2'	2.17	0.44
25:BA:2850:A:C4	25:BA:2869:G:H4'	2.53	0.44
25:BA:2883:A:H3'	25:BA:2884:U:H5'	1.98	0.44
25:BA:2887:U:C6	25:BA:2887:U:O5'	2.70	0.44
25:BA:331:A:C4	25:BA:1209:G:C2	3.04	0.44
25:BA:371:A:H62	25:BA:424:G:C1'	2.30	0.44
25:BA:379:G:C2	25:BA:396:G:C5	3.05	0.44
25:BA:417:C:H2'	25:BA:418:G:C8	2.50	0.44
25:BA:456:C:N3	45:BW:66:LEU:HD12	2.32	0.44
25:BA:530:G:O2'	25:BA:531:C:OP1	2.34	0.44
25:BA:734:A:H2	25:BA:735:A:C1'	2.30	0.44
25:BA:768:G:C2'	25:BA:769:G:H5'	2.47	0.44
25:BA:777:A:H2'	25:BA:778:G:C5'	2.47	0.44
25:BA:775:G:O2'	25:BA:794:G:C8	2.67	0.44
25:BA:805:G:O6	25:BA:2068:U:C5'	2.65	0.44
25:BA:813:U:H2'	25:BA:814:C:C6	2.53	0.44
25:BA:86:C:O2	25:BA:87:C:C5	2.71	0.44
25:BA:960:A:C2'	25:BA:962:G:H8	2.28	0.44
25:BA:972:G:OP1	25:BA:974(A):C:C3'	2.62	0.44
25:BA:997:G:N2	25:BA:998:C:C2	2.85	0.44
26:BB:16:G:C2	26:BB:17:C:C6	3.05	0.44
26:BB:40:U:C2'	26:BB:41:U:OP1	2.65	0.44
26:BB:70:C:N3	26:BB:71:C:C5	2.85	0.44
27:BC:209:LEU:O	27:BC:209:LEU:HD23	2.17	0.44
27:BC:26:ALA:HB1	27:BC:185:LEU:HD12	1.98	0.44
27:BC:36:LYS:O	27:BC:37:PHE:HB3	2.17	0.44
27:BC:59:ARG:HH11	27:BC:59:ARG:HB2	1.80	0.44
28:BD:211:ARG:C	28:BD:215:LEU:HD12	2.36	0.44
28:BD:56:GLY:N	28:BD:217:ARG:NH1	2.65	0.44
28:BD:246:PRO:HG3	28:BD:252:TRP:CA	2.41	0.44
29:BE:119:ARG:CD	29:BE:156:MET:H	2.29	0.44
29:BE:27:LEU:HA	29:BE:76:ARG:NH1	2.24	0.44
25:BA:2786:U:O2	29:BE:61:ARG:HG3	2.17	0.44
25:BA:2636:U:OP1	29:BE:78:LEU:HD12	2.17	0.44
30:BF:103:LYS:HB3	30:BF:107:LYS:HZ1	1.83	0.44
25:BA:320:A:H2'	30:BF:136:THR:OG1	2.17	0.44
30:BF:30:PRO:O	30:BF:32:LEU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:4:VAL:O	30:BF:20:LEU:CD1	2.64	0.44
31:BG:178:PHE:CD1	31:BG:179:PRO:HD2	2.52	0.44
31:BG:21:ARG:CZ	31:BG:28:VAL:H	2.30	0.44
31:BG:49:ASP:C	31:BG:53:LEU:HD22	2.38	0.44
31:BG:49:ASP:HB3	31:BG:50:ALA:H	1.62	0.44
32:BH:156:ALA:C	32:BH:157:TYR:CD2	2.91	0.44
35:BM:118:LYS:O	35:BM:121:LYS:HE3	2.17	0.44
35:BM:127:ASP:O	35:BM:128:HIS:C	2.52	0.44
35:BM:37:LYS:HE3	35:BM:43:THR:HA	1.99	0.44
35:BM:7:LYS:NZ	35:BM:8:GLN:C	2.71	0.44
36:BN:16:ALA:CB	36:BN:45:GLU:O	2.65	0.44
37:BO:74:GLU:N	37:BO:107:LYS:CE	2.79	0.44
25:BA:811:U:OP2	37:BO:28:GLY:HA3	2.17	0.44
37:BO:6:LEU:C	37:BO:7:ARG:HG3	2.37	0.44
25:BA:1204:A:OP1	37:BO:6:LEU:HD12	2.16	0.44
38:BP:64:ILE:CA	38:BP:106:VAL:O	2.64	0.44
39:BQ:20:LEU:HD12	39:BQ:21:TYR:CD2	2.49	0.44
40:BR:12:PHE:O	40:BR:13:ARG:C	2.55	0.44
40:BR:78:LEU:HD13	40:BR:79:ALA:CA	2.46	0.44
41:BS:2:ASN:ND2	41:BS:3:ARG:NH2	2.65	0.44
41:BS:48:ILE:HG23	41:BS:50:ILE:CG1	2.47	0.44
42:BT:55:ARG:O	42:BT:59:ARG:HG2	2.17	0.44
43:BU:33:VAL:HG12	43:BU:34:GLU:H	1.82	0.44
43:BU:1:MET:HG3	43:BU:45:THR:CG2	2.47	0.44
43:BU:35:LEU:H	43:BU:61:VAL:HG13	1.76	0.44
43:BU:7:THR:O	43:BU:8:GLY:C	2.55	0.44
25:BA:518:G:C4'	44:BV:18:ARG:NH1	2.73	0.44
47:BY:134:PRO:HG2	47:BY:137:ILE:HG13	1.99	0.44
47:BY:106:GLY:HA3	47:BY:144:LEU:HD21	1.99	0.44
47:BY:3:TYR:N	47:BY:3:TYR:CD1	2.80	0.44
48:BZ:76:GLY:N	48:BZ:78:TYR:HE1	2.15	0.44
33:BK:53:ALA:CB	33:BK:57:ARG:NH2	2.77	0.44
25:BA:1052:C:O2'	25:BA:1053:C:C5'	2.65	0.44
25:BA:1073:A:C8	25:BA:1074:G:C5	3.04	0.44
34:BL:105:LEU:N	34:BL:105:LEU:HD23	2.31	0.44
1:AA:1025:U:H2'	1:AA:1026:G:N7	2.32	0.44
1:AA:849:C:C2	1:AA:850:U:C5	3.05	0.44
6:AF:162:GLN:CD	6:AF:162:GLN:C	2.75	0.44
1:AA:1109:C:OP2	6:AF:176:HIS:ND1	2.50	0.44
1:AA:1132:C:C2	1:AA:1133:G:C8	3.05	0.44
1:AA:1238:A:N7	1:AA:1301:U:O4	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1394:A:N7	1:AA:1501:C:O4'	2.50	0.44
1:AA:1506:U:P	1:AA:1506:U:O4'	2.76	0.44
1:AA:186(B):C:N3	1:AA:186(C):G:C8	2.86	0.44
1:AA:257:G:C2'	1:AA:258:G:H5'	2.47	0.44
1:AA:258:G:C2	1:AA:259:G:N7	2.85	0.44
1:AA:425:G:H21	1:AA:426:G:H1'	1.82	0.44
1:AA:432:A:N7	1:AA:433:C:C5	2.85	0.44
1:AA:451:A:H61	1:AA:480:U:C2'	2.25	0.44
1:AA:703:G:H4'	1:AA:704:A:O5'	2.16	0.44
1:AA:794:A:C5	1:AA:795:C:N4	2.86	0.44
1:AA:803:G:C6	1:AA:804:U:N3	2.85	0.44
1:AA:914:A:H2'	1:AA:915:A:H8	1.74	0.44
5:AE:166:ASP:OD2	5:AE:188:ALA:O	2.35	0.44
5:AE:223:ILE:HG22	5:AE:224:GLN:N	2.31	0.44
5:AE:87:ARG:HB2	5:AE:87:ARG:HE	1.44	0.44
6:AF:11:ARG:CZ	6:AF:11:ARG:HA	2.47	0.44
6:AF:183:ASP:O	6:AF:201:TYR:HA	2.17	0.44
7:AG:106:TYR:CD1	7:AG:111:ALA:O	2.71	0.44
7:AG:125:HIS:O	7:AG:126:ILE:CG1	2.54	0.44
8:AH:110:LEU:O	8:AH:113:ALA:HB3	2.17	0.44
9:AI:62:TRP:CG	21:AU:35:ARG:NH1	2.76	0.44
11:AK:34:GLU:O	11:AK:38:ILE:HD11	2.17	0.44
11:AK:36:LEU:C	11:AK:39:LEU:HB2	2.37	0.44
12:AL:56:LEU:CD2	12:AL:56:LEU:O	2.63	0.44
12:AL:69:GLY:H	12:AL:73:GLN:HG3	1.81	0.44
13:AM:16:LEU:HB3	13:AM:70:ARG:HG2	1.98	0.44
13:AM:8:LEU:HD22	13:AM:94:VAL:HG12	1.98	0.44
14:AN:26:ASN:HA	14:AN:56:GLY:HA3	1.99	0.44
14:AN:62:GLN:OE1	14:AN:63:LEU:CA	2.65	0.44
15:AO:37:CYS:SG	15:AO:81:SER:HB2	2.57	0.44
1:AA:1309:G:OP2	16:AP:99:ARG:NH2	2.50	0.44
17:AQ:9:LYS:HA	17:AQ:21:TYR:CE1	2.52	0.44
17:AQ:36:PHE:HB3	17:AQ:37:PHE:HD2	1.82	0.44
19:AS:3:LYS:CG	19:AS:24:ALA:HB2	2.47	0.44
20:AT:40:LYS:HB2	20:AT:42:TYR:HE1	1.81	0.44
20:AT:59:ILE:O	20:AT:59:ILE:HG23	2.16	0.44
22:AV:17:GLU:CG	22:AV:18:LYS:H	2.30	0.44
23:AW:34:LYS:O	23:AW:35:THR:C	2.56	0.44
23:AW:43:LEU:HD22	23:AW:48:LYS:HB2	1.98	0.44
1:AA:1326:C:OP1	24:AX:17:THR:HG21	2.18	0.44
49:B1:14:VAL:HA	49:B1:17:GLU:OE2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B1:31:ARG:O	49:B1:34:ALA:HB3	2.17	0.44
52:B4:15:ARG:NH1	52:B4:19:ARG:HH22	2.15	0.44
54:B6:41:ARG:HG3	54:B6:42:LEU:N	2.33	0.44
25:BA:1044:G:H1	25:BA:1112:G:HO2'	1.62	0.44
25:BA:1112:G:O4'	25:BA:1112:G:OP2	2.34	0.44
25:BA:1134:G:C4	25:BA:1136:G:OP2	2.69	0.44
25:BA:1143:A:C4	25:BA:1144:G:C8	3.06	0.44
25:BA:1159:U:O5'	25:BA:1159:U:H6	1.99	0.44
25:BA:1201:C:H2'	25:BA:1202:C:C5'	2.45	0.44
25:BA:1249:U:O2'	25:BA:1250:G:C5'	2.65	0.44
25:BA:1376:C:H2'	25:BA:1377:G:C8	2.53	0.44
25:BA:1428:C:O2'	25:BA:1429:G:P	2.75	0.44
25:BA:1555:G:H2'	25:BA:1556:C:C5	2.51	0.44
25:BA:1672:C:C5	25:BA:1673:U:C6	2.97	0.44
25:BA:1754:C:C5	41:BS:98:LYS:NZ	2.73	0.44
25:BA:1790:C:C2'	25:BA:1791:A:N7	2.71	0.44
25:BA:1885:A:H2'	25:BA:1886:C:O4'	2.18	0.44
25:BA:1935:G:C3'	25:BA:1962:C:H42	2.31	0.44
25:BA:1982:C:C2'	25:BA:1983:C:H6	2.28	0.44
25:BA:2064:C:H5''	25:BA:2064:C:H6	1.83	0.44
25:BA:2063:C:OP2	25:BA:2064:C:OP2	2.35	0.44
25:BA:2079:U:N3	25:BA:2080:G:N7	2.65	0.44
25:BA:2134:A:N1	25:BA:2135:A:C2	2.86	0.44
25:BA:2157:G:H4'	25:BA:2158:A:OP1	2.17	0.44
25:BA:2164:C:C5	25:BA:2165:G:C2	3.04	0.44
25:BA:2459:A:C5	25:BA:2493:U:C4	3.06	0.44
25:BA:260:G:N2	25:BA:261:G:C1'	2.80	0.44
25:BA:270(C):C:C4	25:BA:270(D):C:C5	3.05	0.44
25:BA:270(X):G:C2	25:BA:270(Y):G:H4'	2.53	0.44
25:BA:2780:G:O2'	25:BA:2781:A:C4'	2.65	0.44
25:BA:301:G:C2	25:BA:302:C:C4	3.05	0.44
25:BA:366:C:C6	25:BA:366:C:O5'	2.67	0.44
25:BA:512:G:H3'	25:BA:512:G:H8	1.82	0.44
25:BA:515:A:H2'	25:BA:516:C:O4'	2.17	0.44
25:BA:541:C:H5''	25:BA:542:C:OP2	2.17	0.44
25:BA:551:G:H4'	25:BA:1220:A:C2	2.51	0.44
25:BA:55:G:C2	25:BA:56:A:C8	3.06	0.44
25:BA:592:G:C4	25:BA:593:G:C8	3.05	0.44
25:BA:688:U:H5'	25:BA:1780:A:C2	2.52	0.44
25:BA:696:G:O2'	25:BA:697:C:P	2.75	0.44
25:BA:748:G:N7	25:BA:750:A:C5	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:829:A:H5''	25:BA:830:G:H5''	1.96	0.44
25:BA:952:G:C2'	25:BA:953:A:O5'	2.64	0.44
25:BA:978:G:C5	25:BA:979:G:C6	3.05	0.44
25:BA:99:U:H6	25:BA:99:U:H5''	1.83	0.44
26:BB:99:A:C2	26:BB:100:G:N3	2.85	0.44
26:BB:114:G:C6	26:BB:115:G:C5	3.04	0.44
26:BB:30:C:O2'	26:BB:57:A:N6	2.50	0.44
27:BC:124:GLY:O	27:BC:128:GLY:CA	2.65	0.44
27:BC:137:LEU:HD23	27:BC:138:PRO:CD	2.46	0.44
27:BC:20:TYR:CE1	27:BC:222:VAL:HG22	2.51	0.44
27:BC:78:ALA:C	27:BC:79:LYS:HG3	2.38	0.44
27:BC:8:ARG:NE	27:BC:8:ARG:HA	2.32	0.44
28:BD:179:SER:OG	28:BD:180:GLY:N	2.50	0.44
28:BD:9:TYR:OH	28:BD:198:ASN:CG	2.56	0.44
25:BA:1788:C:C1'	28:BD:222:ARG:HH21	2.27	0.44
28:BD:65:ILE:HG22	28:BD:66:ASP:N	2.31	0.44
25:BA:2210:G:C4	28:BD:70:TRP:HD1	2.35	0.44
28:BD:7:LYS:CD	28:BD:91:ARG:CZ	2.95	0.44
28:BD:8:PRO:HG2	28:BD:8:PRO:O	2.18	0.44
29:BE:120:TRP:CZ2	29:BE:122:PHE:O	2.70	0.44
29:BE:133:LYS:HG3	29:BE:137:HIS:CD2	2.52	0.44
29:BE:151:TYR:CE2	29:BE:152:LYS:HG3	2.52	0.44
29:BE:111:ARG:CB	29:BE:161:GLY:HA3	2.48	0.44
29:BE:164:ARG:HG2	29:BE:165:VAL:H	1.79	0.44
25:BA:2731:G:C4'	29:BE:168:MET:HE2	2.35	0.44
29:BE:82:ARG:NE	29:BE:82:ARG:HA	2.31	0.44
30:BF:118:ALA:HA	30:BF:122:LYS:HE2	1.99	0.44
30:BF:36:VAL:CG1	30:BF:37:VAL:N	2.77	0.44
30:BF:56:GLU:O	30:BF:57:VAL:O	2.34	0.44
31:BG:42:GLY:O	31:BG:43:LEU:O	2.35	0.44
31:BG:8:LYS:HA	31:BG:11:TYR:CD2	2.52	0.44
32:BH:104:GLU:C	32:BH:105:LEU:HG	2.38	0.44
32:BH:23:ARG:HH21	32:BH:34:GLU:C	2.20	0.44
32:BH:6:ARG:O	32:BH:69:ARG:CD	2.65	0.44
35:BM:42:TRP:CD1	35:BM:42:TRP:N	2.82	0.44
36:BN:18:LYS:HZ3	36:BN:20:MET:CE	2.30	0.44
37:BO:56:SER:HB3	55:B7:13:ARG:HH21	1.78	0.44
37:BO:7:ARG:CD	37:BO:8:PRO:CD	2.95	0.44
38:BP:34:LEU:HB2	38:BP:67:ARG:HH22	1.82	0.44
38:BP:77:LYS:HE3	38:BP:87:LYS:HZ2	1.82	0.44
41:BS:29:ARG:HD3	41:BS:51:ARG:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:89:GLU:O	42:BT:90:VAL:CG2	2.65	0.44
43:BU:5:VAL:O	43:BU:6:LYS:CB	2.65	0.44
44:BV:33:ARG:CD	44:BV:37:ARG:HG2	2.46	0.44
44:BV:35:ILE:CG2	44:BV:36:LEU:N	2.80	0.44
44:BV:54:ALA:HB1	44:BV:107:LEU:HB2	1.99	0.44
45:BW:14:SER:O	45:BW:18:TYR:CD1	2.70	0.44
46:BX:21:LYS:O	46:BX:23:ARG:NE	2.49	0.44
46:BX:1:MET:CA	46:BX:33:LYS:HG3	2.35	0.44
46:BX:35:TYR:CD1	46:BX:64:GLU:O	2.70	0.44
46:BX:97:ARG:NH2	46:BX:101:LYS:CD	2.74	0.44
47:BY:127:LYS:HD2	47:BY:163:LEU:CB	2.48	0.44
25:BA:1063:G:C5	25:BA:1064:C:N4	2.85	0.44
25:BA:1072:C:O2	25:BA:1092:C:C5	2.70	0.44
34:BL:97:GLY:O	34:BL:135:GLY:O	2.36	0.44
34:BL:37:PHE:CE2	34:BL:66:THR:N	2.83	0.44
1:AA:1447:G:C6	1:AA:1448:C:N4	2.85	0.44
6:AF:157:ILE:CG1	6:AF:164:ARG:CG	2.71	0.44
10:AJ:126:ASP:O	10:AJ:131:LYS:HG2	2.18	0.44
1:AA:398:C:H3'	1:AA:398:C:C6	2.52	0.44
1:AA:1075:C:O2'	1:AA:1101:A:N7	2.45	0.44
1:AA:1108:G:C6	1:AA:1109:C:N4	2.85	0.44
1:AA:1129:C:O2'	1:AA:1131:G:N7	2.50	0.44
1:AA:1202:G:C5	17:AQ:42:ILE:HD12	2.53	0.44
1:AA:1260:C:O2'	1:AA:1283:G:H4'	2.17	0.44
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.82	0.44
1:AA:1480:G:H2'	1:AA:1481:U:O5'	2.17	0.44
1:AA:791:G:N2	1:AA:1498:U:P	2.79	0.44
1:AA:1499:A:C8	1:AA:1499:A:H3'	2.53	0.44
1:AA:1405:G:H1'	1:AA:1519:A:O4'	2.17	0.44
1:AA:172:A:N6	1:AA:174:C:O2	2.50	0.44
1:AA:22:G:OP1	1:AA:561:U:O2	2.35	0.44
1:AA:236:G:H5''	1:AA:237:C:OP2	2.17	0.44
1:AA:238:G:N1	1:AA:239:U:C2	2.85	0.44
1:AA:263:A:O2'	1:AA:264:U:C5'	2.64	0.44
1:AA:28:G:O2'	1:AA:296:U:H5''	2.18	0.44
1:AA:321:A:N1	1:AA:332:G:N2	2.59	0.44
1:AA:429:U:C3'	7:AG:22:LYS:NZ	2.79	0.44
1:AA:511:C:N3	1:AA:541:G:N2	2.66	0.44
1:AA:541:G:O2'	1:AA:542:G:H5'	2.17	0.44
1:AA:622:A:N7	1:AA:623:C:C5	2.85	0.44
1:AA:759:A:H4'	1:AA:881:G:OP1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:768:A:O2'	1:AA:1523:G:N2	2.49	0.44
1:AA:697:U:C5'	1:AA:786:G:H4'	2.47	0.44
1:AA:790:A:H8	1:AA:790:A:O5'	2.00	0.44
1:AA:816:A:C4'	1:AA:817:C:H5''	2.38	0.44
1:AA:924:C:H2'	1:AA:925:G:H8	1.82	0.44
1:AA:924:C:H2'	1:AA:925:G:C8	2.52	0.44
1:AA:982:U:H3	1:AA:1223:C:N4	2.15	0.44
1:AA:982:U:H5''	1:AA:983:A:OP1	2.18	0.44
3:AD:63:G:C5	3:AD:64:C:C5	3.05	0.44
3:AD:9:A:N6	3:AD:22:G:C8	2.85	0.44
5:AE:131:PRO:CB	5:AE:134:GLU:HG2	2.47	0.44
5:AE:72:GLY:CA	5:AE:165:VAL:CG1	2.94	0.44
6:AF:83:ARG:C	6:AF:85:ARG:N	2.65	0.44
6:AF:91:LEU:HD11	6:AF:99:VAL:CA	2.46	0.44
7:AG:67:ILE:CD1	7:AG:67:ILE:C	2.84	0.44
9:AI:14:LEU:HD22	9:AI:18:GLN:CD	2.37	0.44
10:AJ:62:PHE:HA	10:AJ:124:LEU:HD21	1.98	0.44
10:AJ:55:GLY:O	10:AJ:56:GLN:C	2.55	0.44
11:AK:37:ARG:HE	11:AK:38:ILE:HD13	1.81	0.44
12:AL:113:LYS:NZ	12:AL:119:ALA:CB	2.79	0.44
12:AL:32:ASP:CG	12:AL:33:PHE:H	2.21	0.44
12:AL:49:PRO:HG2	12:AL:81:ILE:CG2	2.47	0.44
13:AM:11:PHE:HD2	13:AM:11:PHE:HA	1.67	0.44
13:AM:47:PHE:O	13:AM:62:HIS:HA	2.18	0.44
13:AM:95:GLU:O	13:AM:95:GLU:OE1	2.35	0.44
14:AN:69:ALA:C	14:AN:71:LYS:N	2.70	0.44
14:AN:69:ALA:O	14:AN:72:ALA:N	2.50	0.44
15:AO:70:ILE:HG21	15:AO:77:LEU:HD12	1.98	0.44
1:AA:952:U:H5	16:AP:104:ARG:NH1	2.14	0.44
16:AP:15:VAL:HG21	16:AP:39:ILE:HD12	1.99	0.44
16:AP:96:LEU:O	16:AP:97:PRO:C	2.56	0.44
17:AQ:26:ARG:HB3	17:AQ:27:CYS:H	1.61	0.44
18:AR:65:ARG:HH11	18:AR:65:ARG:HB2	1.83	0.44
19:AS:14:ASN:CB	19:AS:42:ARG:NH2	2.70	0.44
19:AS:60:LEU:O	19:AS:61:SER:C	2.56	0.44
21:AU:66:LEU:CG	21:AU:67:ALA:N	2.80	0.44
14:AN:110:ASP:CB	21:AU:85:LEU:HB3	2.44	0.44
22:AV:20:LEU:C	22:AV:21:GLU:HG2	2.38	0.44
50:B2:54:VAL:HG22	50:B2:55:ARG:H	1.78	0.44
51:B3:5:ILE:CD1	51:B3:9:LEU:C	2.84	0.44
52:B4:59:GLU:OE1	52:B4:59:GLU:HA	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B5:15:GLU:OE2	53:B5:20:ASN:O	2.36	0.44
53:B5:25:LYS:HZ2	55:B7:35:GLN:CB	2.30	0.44
25:BA:987:G:H4'	25:BA:1000:A:O2'	2.17	0.44
25:BA:1024:G:OP2	25:BA:1025:G:N3	2.51	0.44
25:BA:1113:U:H2'	25:BA:1114:G:H8	1.78	0.44
25:BA:1178:C:O2'	25:BA:1179:C:C6	2.70	0.44
25:BA:1202:C:H2'	25:BA:1203:G:H4'	1.99	0.44
25:BA:1356:G:C2	25:BA:1357:U:C2	3.06	0.44
25:BA:1364:G:C8	25:BA:1364:G:P	3.10	0.44
25:BA:1386:C:O2'	25:BA:1387:C:O4'	2.28	0.44
25:BA:135:G:C6	25:BA:145:G:C6	3.05	0.44
25:BA:1488:G:C4	25:BA:1489:U:O4'	2.70	0.44
25:BA:1513:C:C5'	25:BA:1513:C:H6	2.29	0.44
25:BA:1581:G:H2'	25:BA:1582:C:H6	1.81	0.44
25:BA:1618:A:O2'	25:BA:1619:G:OP1	2.15	0.44
25:BA:1676:A:H3'	25:BA:1677:A:H8	1.82	0.44
25:BA:1923:U:C2'	25:BA:1924:C:C6	2.84	0.44
25:BA:1978:A:N6	25:BA:1979:C:N4	2.65	0.44
25:BA:1995:U:C5	25:BA:1996:C:C4	2.98	0.44
25:BA:571:A:C2	25:BA:2030:A:C5	3.06	0.44
25:BA:2073:C:C2'	25:BA:2074:U:O4'	2.66	0.44
25:BA:2234:G:C2'	25:BA:2235:G:H5'	2.48	0.44
25:BA:2236:C:H2'	25:BA:2237:G:C5'	2.45	0.44
25:BA:2305:A:C3'	25:BA:2306:C:C5'	2.93	0.44
25:BA:2370:G:C6	25:BA:2371:G:C5	3.05	0.44
25:BA:2481:G:C2'	25:BA:2482:G:OP2	2.65	0.44
25:BA:2588:G:C8	25:BA:2588:G:H3'	2.52	0.44
25:BA:2603:G:C6	25:BA:2604:U:C5	3.03	0.44
25:BA:2616:C:H2'	25:BA:2616:C:O2	2.17	0.44
25:BA:2617:C:C2	25:BA:2618:G:C8	3.06	0.44
25:BA:2637:U:C2	25:BA:2782:G:N2	2.86	0.44
25:BA:2637:U:H3	25:BA:2782:G:N2	2.15	0.44
25:BA:2664:G:N2	25:BA:2665:A:N6	2.65	0.44
25:BA:2681:C:H1'	25:BA:2682:U:H5	1.83	0.44
25:BA:270(U):C:H2'	25:BA:270(V):G:C1'	2.47	0.44
25:BA:2725:A:OP2	25:BA:2725:A:H8	2.00	0.44
25:BA:2749:A:C5	25:BA:2750:A:C8	3.05	0.44
25:BA:2749:A:C4	25:BA:2750:A:N7	2.85	0.44
25:BA:2774:C:H5'	25:BA:2775:A:OP2	2.18	0.44
25:BA:2850:A:C2	39:BQ:61:HIS:NE2	2.85	0.44
25:BA:2849:U:O2'	25:BA:2850:A:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2864:G:C2	25:BA:2865:U:C2	3.05	0.44
25:BA:306:U:C5	25:BA:307:G:C1'	3.00	0.44
25:BA:398:G:H5''	25:BA:2090:G:O4'	2.16	0.44
25:BA:416:C:C2	25:BA:2407:G:O6	2.71	0.44
25:BA:458:G:OP1	54:B6:39:ARG:CZ	2.65	0.44
25:BA:564:C:H2'	25:BA:565:C:C6	2.52	0.44
25:BA:575:A:C2	25:BA:576:U:C1'	3.00	0.44
25:BA:58:G:H1'	25:BA:70:G:C2	2.52	0.44
25:BA:617:G:OP2	30:BF:40:GLN:NE2	2.51	0.44
25:BA:622:G:HO2'	25:BA:623:G:H5'	1.80	0.44
25:BA:667:U:H2'	25:BA:668:G:C1'	2.48	0.44
25:BA:678:C:O2'	25:BA:679:C:H5'	2.17	0.44
25:BA:729:G:H1'	28:BD:17:THR:HG22	1.99	0.44
25:BA:71:A:C2'	25:BA:72:U:OP2	2.66	0.44
25:BA:764:A:OP1	28:BD:211:ARG:CB	2.64	0.44
25:BA:687:C:O2	25:BA:788:A:O5'	2.36	0.44
25:BA:824:A:C4	25:BA:825:C:C5	3.06	0.44
25:BA:870:A:N6	25:BA:871:U:N3	2.65	0.44
25:BA:957:A:C8	25:BA:959:A:C8	3.02	0.44
25:BA:975:G:N2	25:BA:976:C:C6	2.86	0.44
25:BA:987:G:O6	25:BA:988:A:C5	2.70	0.44
25:BA:993:G:C6	25:BA:994:C:N4	2.86	0.44
26:BB:114:G:C4'	40:BR:47:THR:HG21	2.47	0.44
27:BC:182:PRO:HG2	27:BC:183:GLU:OE1	2.16	0.44
27:BC:56:GLN:NE2	27:BC:203:GLY:H	2.16	0.44
27:BC:216:THR:OG1	27:BC:219:GLY:CA	2.65	0.44
28:BD:111:LEU:CA	28:BD:115:GLN:NE2	2.80	0.44
25:BA:728:G:C5'	28:BD:16:MET:HE1	2.47	0.44
25:BA:1825:A:H4'	28:BD:252:TRP:CZ3	2.52	0.44
29:BE:102:VAL:HG23	29:BE:198:VAL:CG1	2.42	0.44
25:BA:2786:U:O2'	29:BE:61:ARG:O	2.30	0.44
29:BE:86:PRO:O	29:BE:87:GLU:CG	2.62	0.44
30:BF:154:VAL:HG21	30:BF:193:VAL:CG2	2.46	0.44
25:BA:617:G:P	30:BF:40:GLN:OE1	2.75	0.44
30:BF:82:ILE:CD1	30:BF:82:ILE:H	2.28	0.44
31:BG:17:PRO:HA	31:BG:20:ILE:HB	1.98	0.44
31:BG:21:ARG:NH2	31:BG:28:VAL:CG2	2.78	0.44
31:BG:29:TRP:C	31:BG:31:VAL:HG23	2.38	0.44
32:BH:76:VAL:O	32:BH:77:LYS:C	2.54	0.44
33:BK:22:LYS:O	33:BK:26:ALA:CB	2.65	0.44
36:BN:2:ILE:CB	36:BN:32:TYR:HB3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:72:PRO:HD2	37:BO:111:ARG:NE	2.31	0.44
37:BO:15:ARG:CZ	37:BO:16:ARG:H	2.31	0.44
37:BO:38:GLN:C	37:BO:40:SER:N	2.67	0.44
38:BP:24:GLY:H	38:BP:101:ARG:NE	2.15	0.44
38:BP:46:GLN:OE1	38:BP:125:LEU:C	2.55	0.44
38:BP:16:ARG:HB2	38:BP:17:LEU:H	1.62	0.44
38:BP:37:LEU:HG	38:BP:130:LYS:H	1.81	0.44
38:BP:42:ILE:C	38:BP:94:VAL:HB	2.35	0.44
39:BQ:44:LEU:O	39:BQ:48:VAL:HG23	2.16	0.44
40:BR:18:ILE:O	40:BR:19:LYS:C	2.55	0.44
41:BS:50:ILE:CG2	41:BS:68:TYR:N	2.79	0.44
42:BT:35:ALA:O	42:BT:36:ARG:C	2.55	0.44
42:BT:70:ARG:HG2	42:BT:75:ASN:CA	2.45	0.44
42:BT:68:ALA:CB	42:BT:99:ALA:CB	2.94	0.44
43:BU:13:ARG:C	43:BU:14:VAL:CG2	2.86	0.44
43:BU:18:LEU:CD2	43:BU:18:LEU:H	2.29	0.44
43:BU:27:ALA:HB3	43:BU:35:LEU:CD1	2.46	0.44
43:BU:6:LYS:CG	43:BU:12:TYR:HB3	2.46	0.44
44:BV:77:ASP:OD2	44:BV:102:HIS:CB	2.62	0.44
47:BY:106:GLY:O	47:BY:107:THR:O	2.35	0.44
47:BY:24:LEU:HD22	47:BY:84:GLU:CA	2.47	0.44
33:BK:131:LYS:HA	33:BK:132:PRO:HD2	1.84	0.44
33:BK:63:ALA:HB1	33:BK:67:ARG:HH21	1.82	0.44
25:BA:1102:C:O2'	25:BA:1103:A:H8	1.99	0.44
34:BL:9:LYS:HA	34:BL:56:GLU:CG	2.47	0.44
1:AA:1025:U:O2'	1:AA:1026:G:C5	2.67	0.44
25:BA:2186:G:C2	25:BA:2187:G:C5	3.05	0.44
1:AA:1403:C:N4	4:A1:18:G:OP2	2.48	0.44
1:AA:1068:G:C8	1:AA:1094:G:N7	2.85	0.44
1:AA:1124:G:OP1	13:AM:35:SER:O	2.35	0.44
1:AA:1282:C:O2	1:AA:1282:C:H2'	2.17	0.44
1:AA:1531:A:H2'	1:AA:1532:U:C2	2.53	0.44
1:AA:246:A:C2'	1:AA:247:G:OP2	2.66	0.44
1:AA:307:C:O5'	1:AA:308:C:OP2	2.36	0.44
1:AA:46:G:N2	1:AA:366:C:N1	2.65	0.44
1:AA:542:G:N2	1:AA:543:C:H1'	2.33	0.44
1:AA:300:A:H1'	1:AA:565:U:O2	2.18	0.44
1:AA:609:A:H2'	1:AA:610:G:H8	1.81	0.44
1:AA:675:A:C2	1:AA:716:A:C2	3.06	0.44
1:AA:676:A:N3	1:AA:677:U:C6	2.85	0.44
1:AA:762:C:N4	1:AA:763:G:O6	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:808:C:C2	1:AA:809:G:C8	3.05	0.44
1:AA:821:G:C6	1:AA:822:C:C4	3.06	0.44
1:AA:826:C:C6	1:AA:826:C:OP2	2.71	0.44
1:AA:863:U:O2	1:AA:865:A:OP2	2.34	0.44
1:AA:895:G:C4	1:AA:896:C:C5	3.05	0.44
1:AA:993:G:O6	1:AA:1046:A:C5	2.70	0.44
1:AA:993:G:C2'	1:AA:994:A:OP1	2.65	0.44
2:AC:6:G:O2'	2:AC:7:G:O4'	2.24	0.44
5:AE:167:PRO:CG	5:AE:188:ALA:HA	2.46	0.44
5:AE:80:ILE:HD12	5:AE:211:ILE:HG21	1.98	0.44
5:AE:80:ILE:HD13	5:AE:212:GLN:HB2	1.98	0.44
6:AF:121:ALA:HB2	6:AF:187:ALA:HB1	1.99	0.44
6:AF:119:ARG:HH21	6:AF:140:ARG:HH22	1.65	0.44
6:AF:182:ILE:HG12	6:AF:203:PHE:CE1	2.53	0.44
6:AF:38:ARG:CB	6:AF:38:ARG:NH1	2.60	0.44
7:AG:61:LYS:NZ	7:AG:65:ARG:CD	2.79	0.44
8:AH:109:ILE:HG22	8:AH:110:LEU:H	1.81	0.44
8:AH:16:THR:HG23	8:AH:28:PHE:HA	1.99	0.44
8:AH:94:ALA:HB1	8:AH:98:THR:CG2	2.41	0.44
9:AI:90:VAL:O	9:AI:90:VAL:HG13	2.17	0.44
1:AA:939:G:O3'	10:AJ:102:ARG:NH1	2.50	0.44
10:AJ:115:ARG:O	10:AJ:118:VAL:HB	2.18	0.44
10:AJ:78:ARG:HD2	10:AJ:79:ARG:N	2.31	0.44
12:AL:116:LYS:HB2	12:AL:121:ARG:O	2.17	0.44
1:AA:1148:U:C5'	12:AL:16:ARG:HD2	2.47	0.44
12:AL:41:VAL:O	12:AL:41:VAL:HG12	2.17	0.44
12:AL:66:ARG:C	12:AL:73:GLN:NE2	2.70	0.44
13:AM:3:LYS:NZ	13:AM:77:PRO:HG3	2.33	0.44
14:AN:42:TRP:HZ3	14:AN:47:VAL:CG2	2.30	0.44
14:AN:67:ASP:CA	14:AN:70:LYS:NZ	2.80	0.44
16:AP:67:GLU:OE2	16:AP:68:GLY:N	2.51	0.44
18:AR:34:LEU:HD23	18:AR:35:ARG:H	1.83	0.44
19:AS:5:ARG:HH12	19:AS:24:ALA:CA	2.17	0.44
23:AW:18:GLN:H	23:AW:18:GLN:HG2	1.37	0.44
23:AW:20:LEU:O	23:AW:23:ARG:NH1	2.51	0.44
49:B1:3:LYS:HD3	49:B1:6:GLU:CG	2.46	0.44
49:B1:55:LEU:CA	49:B1:58:VAL:HG13	2.47	0.44
25:BA:1158:C:C4'	50:B2:32:GLN:NE2	2.80	0.44
52:B4:37:LYS:HB2	52:B4:38:ALA:H	1.57	0.44
53:B5:19:ARG:O	53:B5:20:ASN:CG	2.55	0.44
37:BO:45:LEU:CD2	55:B7:55:ALA:HB1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1014:U:C2	25:BA:1015:G:C8	3.05	0.44
25:BA:1044:G:C6	25:BA:1048:A:C4	3.05	0.44
25:BA:1048:A:N1	25:BA:1049:C:O2	2.50	0.44
25:BA:1208:C:N4	25:BA:1209:G:C6	2.86	0.44
25:BA:1211:U:OP1	25:BA:1211:U:H6	2.00	0.44
25:BA:122:G:H2'	25:BA:123:G:O4'	2.17	0.44
25:BA:1275:A:H1'	39:BQ:12:ARG:HH21	1.82	0.44
25:BA:1353:A:N6	25:BA:1378:A:C8	2.85	0.44
25:BA:1372:U:H2'	25:BA:1373:A:C5'	2.48	0.44
25:BA:1385:G:C5	25:BA:1386:C:C4	3.05	0.44
25:BA:1410:G:C5	25:BA:1411:C:C4	3.06	0.44
25:BA:1449:A:N1	25:BA:1449(A):G:C4	2.86	0.44
25:BA:1473:G:C2'	25:BA:1474:C:O4'	2.51	0.44
25:BA:1658:C:C5'	25:BA:1659:U:OP2	2.66	0.44
25:BA:1666:G:N3	25:BA:1666:G:C2'	2.77	0.44
25:BA:1700:A:H8	25:BA:1701:A:C8	2.35	0.44
25:BA:1725:G:N2	25:BA:1726:G:C1'	2.80	0.44
25:BA:1785:A:C2'	25:BA:1786:A:C8	3.01	0.44
25:BA:1808:U:O2	25:BA:1809:A:O4'	2.36	0.44
25:BA:1837:C:O2'	25:BA:1928:A:H1'	2.18	0.44
25:BA:1907:G:C4	25:BA:1908:C:C5	3.05	0.44
25:BA:1913:A:N3	25:BA:1913:A:C2'	2.75	0.44
25:BA:1837:C:H1'	25:BA:1928:A:N3	2.32	0.44
25:BA:1942:C:C4	25:BA:1943:U:C4	3.05	0.44
25:BA:1943:U:N1	25:BA:1945:G:H5''	2.33	0.44
25:BA:2067:G:C6	25:BA:2444:G:C6	3.05	0.44
25:BA:2208:U:H1'	25:BA:2217:G:N2	2.31	0.44
25:BA:2244:U:H2'	25:BA:2245:U:O5'	2.17	0.44
25:BA:2291:U:C5'	25:BA:2380:C:O2	2.65	0.44
25:BA:2359:C:C6	25:BA:2359:C:O5'	2.56	0.44
25:BA:2373:G:C2	25:BA:2374:C:C2	3.05	0.44
25:BA:2374:C:O2'	25:BA:2375:G:H5'	2.17	0.44
25:BA:2388:A:H8	25:BA:2389:G:N7	2.12	0.44
25:BA:22:C:C2'	25:BA:23:G:O5'	2.65	0.44
25:BA:2491:U:C2'	25:BA:2492:U:H5'	2.48	0.44
25:BA:252:G:N2	25:BA:253:C:N1	2.66	0.44
25:BA:2570:G:C3'	25:BA:2571:C:C6	3.00	0.44
25:BA:2620:C:C2	25:BA:2621:A:C8	3.06	0.44
25:BA:2637:U:H5''	29:BE:81:ILE:CD1	2.32	0.44
25:BA:2658:C:N4	25:BA:2659:G:N3	2.65	0.44
25:BA:270(E):G:O4'	25:BA:270(E):G:P	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:270(G):C:C2	25:BA:270(H):C:C4	3.05	0.44
25:BA:270(K):C:H3'	25:BA:270(L):U:H6	1.83	0.44
25:BA:2738:A:C2	25:BA:2739:U:C1'	2.99	0.44
25:BA:2782:G:HO2'	25:BA:2783:G:C5'	2.31	0.44
25:BA:2862:G:O2'	25:BA:2863:C:H5'	2.18	0.44
25:BA:2863:C:N3	25:BA:2864:G:N7	2.65	0.44
25:BA:408:G:C4	25:BA:409:C:C6	3.06	0.44
25:BA:412:A:H2'	25:BA:413:C:H5'	1.98	0.44
25:BA:414:C:H1'	25:BA:1864:U:C1'	2.40	0.44
25:BA:526:A:C5'	25:BA:527:C:P	3.05	0.44
25:BA:571:A:H1'	25:BA:573:G:C8	2.52	0.44
25:BA:628:G:C2	25:BA:629:G:C4	3.06	0.44
25:BA:72:U:H1'	49:B1:53:ALA:HA	2.00	0.44
25:BA:849:A:H2'	25:BA:850:C:H5'	1.98	0.44
25:BA:861:A:N6	25:BA:916:G:H21	2.13	0.44
25:BA:936:C:C2	25:BA:937:U:C5	3.06	0.44
25:BA:941:A:N1	25:BA:942:G:N3	2.65	0.44
25:BA:959:A:C2'	25:BA:960:A:O5'	2.66	0.44
26:BB:46:A:C8	26:BB:47:C:N4	2.86	0.44
27:BC:194:ARG:O	27:BC:195:ALA:C	2.53	0.44
27:BC:19:ILE:HD12	27:BC:223:ARG:CD	2.48	0.44
27:BC:41:VAL:HG12	27:BC:42:GLU:N	2.32	0.44
27:BC:47:LEU:HD23	27:BC:169:GLY:O	2.17	0.44
27:BC:62:VAL:CG1	27:BC:62:VAL:O	2.66	0.44
27:BC:90:GLY:O	27:BC:153:ILE:CG2	2.57	0.44
28:BD:216:GLY:O	28:BD:217:ARG:HB2	2.17	0.44
28:BD:243:GLY:O	28:BD:244:ARG:CG	2.65	0.44
28:BD:264:LYS:HB2	28:BD:265:PRO:HD2	1.97	0.44
28:BD:7:LYS:HZ2	28:BD:91:ARG:CZ	2.27	0.44
25:BA:2572:A:N1	29:BE:144:ARG:CZ	2.79	0.44
29:BE:192:ASN:O	29:BE:193:GLY:O	2.36	0.44
30:BF:12:LEU:C	30:BF:14:PRO:HD3	2.37	0.44
30:BF:27:GLU:CD	30:BF:116:ASP:HB2	2.37	0.44
31:BG:174:GLU:CB	31:BG:179:PRO:HB3	2.47	0.44
31:BG:27:ASN:O	31:BG:29:TRP:N	2.50	0.44
31:BG:56:ALA:O	31:BG:60:LEU:HD23	2.17	0.44
32:BH:118:PRO:HD2	32:BH:121:ILE:CD1	2.43	0.44
32:BH:127:GLU:HB2	32:BH:128:PRO:C	2.38	0.44
32:BH:23:ARG:HD2	32:BH:34:GLU:OE1	2.17	0.44
35:BM:37:LYS:NZ	35:BM:43:THR:C	2.70	0.44
35:BM:4:TYR:CD2	42:BT:100:VAL:HG11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:105:LEU:C	37:BO:106:LEU:HG	2.38	0.44
38:BP:75:THR:O	38:BP:77:LYS:HD2	2.16	0.44
39:BQ:8:ARG:NE	39:BQ:10:LEU:HD11	2.32	0.44
25:BA:2723:C:HO2'	39:BQ:2:ARG:HA	1.70	0.44
39:BQ:67:LEU:O	39:BQ:69:ASP:N	2.50	0.44
40:BR:26:LEU:HD13	40:BR:28:VAL:H	1.82	0.44
40:BR:41:ASP:CG	40:BR:42:ASP:H	2.16	0.44
41:BS:10:VAL:O	41:BS:14:TYR:HD1	1.98	0.44
42:BT:98:LEU:CD2	42:BT:101:ARG:HD2	2.42	0.44
42:BT:111:GLU:HG2	42:BT:112:ARG:H	1.82	0.44
42:BT:14:HIS:ND1	42:BT:36:ARG:NH2	2.65	0.44
42:BT:62:ILE:C	42:BT:65:ILE:HG12	2.37	0.44
43:BU:3:ALA:O	43:BU:12:TYR:HE2	1.97	0.44
46:BX:29:GLU:CG	46:BX:32:PRO:O	2.66	0.44
46:BX:82:PRO:CD	46:BX:96:ILE:HA	2.47	0.44
47:BY:29:TYR:HB2	47:BY:72:ARG:NH2	2.33	0.44
48:BZ:59:LEU:CD2	48:BZ:79:VAL:CG2	2.95	0.44
25:BA:1062:G:C6	25:BA:1077:A:C4	3.05	0.44
25:BA:1080:C:C4	25:BA:1081:U:C5	3.06	0.44
34:BL:20:ALA:CB	34:BL:21:PRO:CD	2.95	0.44
34:BL:27:LEU:O	34:BL:32:ALA:N	2.50	0.44
33:BK:134:PRO:O	33:BK:135:GLU:HG3	2.18	0.44
1:AA:1010:G:N2	1:AA:1020:U:C1'	2.77	0.44
1:AA:723:U:C2'	1:AA:723:U:O2	2.65	0.44
1:AA:12:U:OP1	4:A1:27:A:C2	2.70	0.44
1:AA:1060:C:H2'	1:AA:1061:G:H8	1.81	0.44
1:AA:107:G:C6	23:AW:15:ARG:NH2	2.85	0.44
1:AA:1124:G:N2	1:AA:1126:U:N3	2.37	0.44
1:AA:1190:G:OP1	6:AF:5:ILE:HD11	2.17	0.44
1:AA:1283:G:O2'	1:AA:1284:C:H5'	2.18	0.44
1:AA:1326:C:OP2	24:AX:6:ARG:NH2	2.48	0.44
1:AA:1338:G:C6	1:AA:1339:A:C6	3.06	0.44
1:AA:1345:U:C4	1:AA:1377:A:C2	3.04	0.44
1:AA:1410:G:C6	1:AA:1411:C:N4	2.85	0.44
1:AA:144:G:C6	1:AA:179:A:N6	2.86	0.44
1:AA:175:C:O2	1:AA:176:C:C6	2.69	0.44
1:AA:191(F):U:C3'	1:AA:191(F):U:C6	3.01	0.44
1:AA:192:U:C2'	1:AA:193:C:O5'	2.65	0.44
1:AA:193:C:N3	1:AA:194:C:C5	2.85	0.44
1:AA:432:A:H3'	1:AA:432:A:C8	2.53	0.44
1:AA:532:A:O4'	6:AF:161:GLU:OE1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:606:G:C2	1:AA:631:G:C2	3.06	0.44
1:AA:688:G:N9	1:AA:700:G:N2	2.66	0.44
1:AA:708:C:C2	1:AA:709:G:C8	3.06	0.44
1:AA:976:G:H2'	1:AA:977:A:OP2	2.18	0.44
2:AC:14:A:C2	2:AC:22:G:C4	3.06	0.44
2:AC:58:A:C5	2:AC:61:C:C5	3.05	0.44
3:AD:40:C:H2'	3:AD:41:G:H5''	1.99	0.44
5:AE:146:GLN:HE21	5:AE:150:SER:HB2	1.82	0.44
5:AE:84:GLU:HG2	5:AE:234:PRO:CD	2.47	0.44
5:AE:61:LEU:O	5:AE:64:ARG:HD2	2.17	0.44
6:AF:116:VAL:HG21	6:AF:141:VAL:CG1	2.47	0.44
6:AF:15:THR:CG2	6:AF:181:ASN:OD1	2.66	0.44
6:AF:23:TYR:CE2	6:AF:24:ALA:O	2.71	0.44
6:AF:48:TYR:HA	6:AF:52:LEU:HD23	1.96	0.44
7:AG:144:ASP:CA	7:AG:184:LYS:HD3	2.48	0.44
9:AI:16:GLN:HG3	9:AI:17:SER:H	1.79	0.44
9:AI:27:GLN:CA	9:AI:30:LEU:HD12	2.48	0.44
9:AI:3:ARG:HD2	9:AI:38:GLU:OE1	2.17	0.44
9:AI:77:ARG:O	9:AI:78:GLU:C	2.56	0.44
10:AJ:45:ASP:O	10:AJ:49:ILE:CD1	2.59	0.44
10:AJ:72:ARG:H	10:AJ:91:VAL:HG21	1.81	0.44
12:AL:4:TYR:CE2	12:AL:88:TYR:HB2	2.53	0.44
13:AM:24:VAL:CG2	13:AM:72:VAL:HG13	2.46	0.44
13:AM:8:LEU:HA	13:AM:8:LEU:HD22	1.77	0.44
13:AM:9:ARG:CG	13:AM:95:GLU:OE2	2.65	0.44
14:AN:116:HIS:O	14:AN:117:ASN:HB2	2.17	0.44
14:AN:39:PRO:O	14:AN:40:ILE:HG23	2.17	0.44
15:AO:45:PRO:CG	15:AO:49:ASN:O	2.66	0.44
17:AQ:17:LYS:O	17:AQ:19:ARG:N	2.47	0.44
1:AA:1318:A:N6	17:AQ:18:VAL:HG11	2.33	0.44
17:AQ:40:CYS:C	17:AQ:42:ILE:N	2.70	0.44
17:AQ:39:LEU:HD12	17:AQ:44:LEU:CB	2.48	0.44
18:AR:70:LEU:HG	18:AR:78:TYR:CB	2.48	0.44
20:AT:53:LEU:HD21	20:AT:85:VAL:HG11	1.98	0.44
20:AT:66:SER:HB2	20:AT:69:LYS:HZ3	1.82	0.44
20:AT:81:ARG:HD2	20:AT:81:ARG:HA	1.86	0.44
23:AW:34:LYS:HE2	23:AW:34:LYS:HB3	1.67	0.44
23:AW:43:LEU:HD11	23:AW:51:GLU:HB2	1.99	0.44
24:AX:17:THR:O	24:AX:22:ARG:CZ	2.66	0.44
24:AX:23:PRO:C	24:AX:25:LYS:N	2.71	0.44
24:AX:6:ARG:O	24:AX:7:ARG:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B6:11:LYS:O	54:B6:14:LYS:CB	2.53	0.44
25:BA:180:G:P	54:B6:32:LYS:HZ3	2.41	0.44
56:B8:1:MET:H2	56:B8:35:ARG:NH2	2.13	0.44
25:BA:1006:C:N3	25:BA:1007:C:C5	2.86	0.44
25:BA:1009:A:C2	25:BA:1010:A:N3	2.84	0.44
25:BA:1021:A:N6	25:BA:1022:G:N2	2.66	0.44
25:BA:1022:G:C6	25:BA:1140:C:C6	3.06	0.44
25:BA:1044:G:N1	25:BA:1112:G:O2'	2.50	0.44
25:BA:1129:A:C5	25:BA:2570:G:H1'	2.52	0.44
25:BA:1170:G:H1	25:BA:1180:C:N4	2.16	0.44
25:BA:1223:C:C5	25:BA:1227:A:N6	2.86	0.44
25:BA:1305:C:H2'	25:BA:1306:C:H6	1.82	0.44
25:BA:1323:U:O2	25:BA:1331:A:C2	2.71	0.44
25:BA:136:G:O2'	25:BA:137:C:H5'	2.17	0.44
25:BA:146:G:H2'	25:BA:147:U:C4'	2.48	0.44
25:BA:1528:A:H3'	25:BA:1529:A:O4'	2.17	0.44
25:BA:1558:A:N3	25:BA:1560:G:O4'	2.49	0.44
25:BA:1429:G:C2	25:BA:1568:G:N1	2.85	0.44
25:BA:1710:C:H1'	25:BA:2858:C:N4	2.29	0.44
25:BA:1758:G:N7	25:BA:2695:C:H4'	2.32	0.44
25:BA:16:G:C2'	25:BA:17:G:H5'	2.47	0.44
25:BA:1819:A:P	28:BD:157:ARG:HA	2.58	0.44
25:BA:1836:C:C4	25:BA:1837:C:C5	3.05	0.44
25:BA:1842:G:HO2'	25:BA:1843:C:H5'	1.83	0.44
25:BA:1845:G:C4	25:BA:1896:G:N2	2.85	0.44
25:BA:1890:A:O5'	25:BA:1890:A:C8	2.69	0.44
25:BA:1903:G:C2	25:BA:1904:G:C8	3.06	0.44
25:BA:1912:A:C6	25:BA:1919:A:N9	2.85	0.44
25:BA:1973:G:H2'	25:BA:1974:C:H6	1.81	0.44
25:BA:1980:G:C5	25:BA:1982:C:C5	3.06	0.44
25:BA:1660:C:N3	25:BA:2001:A:C6	2.86	0.44
25:BA:209:C:C2'	25:BA:210:C:C5'	2.96	0.44
25:BA:2219:G:H2'	25:BA:2219:G:N3	2.31	0.44
25:BA:2244:U:O2'	25:BA:2245:U:P	2.75	0.44
25:BA:224:G:C6	25:BA:225:A:N7	2.85	0.44
25:BA:2259:G:O4'	25:BA:2427:C:C6	2.71	0.44
25:BA:2278:A:N7	48:BZ:14:ARG:CG	2.76	0.44
25:BA:2298:A:H62	25:BA:2318:G:N2	2.15	0.44
25:BA:2322:A:C5	25:BA:2323:G:C8	3.05	0.44
25:BA:2346:A:N6	53:B5:37:ARG:CZ	2.81	0.44
25:BA:2346:A:N3	25:BA:2383:G:C2	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2415:G:H5''	37:BO:61:ARG:CD	2.48	0.44
25:BA:2453:A:C2'	25:BA:2454:G:O5'	2.66	0.44
25:BA:2529:G:O5'	25:BA:2530:A:O5'	2.35	0.44
25:BA:2532:G:H2'	25:BA:2533:A:O4'	2.17	0.44
25:BA:2603:G:O5'	48:BZ:1:MET:SD	2.75	0.44
25:BA:261:G:N1	25:BA:262:A:C5	2.85	0.44
25:BA:270(L):U:O2'	25:BA:270(M):U:P	2.74	0.44
25:BA:270(O):U:H5''	25:BA:270(P):C:C4	2.51	0.44
25:BA:1998:G:O3'	25:BA:2724:C:H4'	2.18	0.44
25:BA:2749:A:H5'	32:BH:62:LYS:C	2.38	0.44
25:BA:2785:C:C2'	25:BA:2786:U:C6	2.96	0.44
25:BA:2812:G:H2'	25:BA:2813:A:H8	1.82	0.44
25:BA:2825:C:N3	25:BA:2826:A:N7	2.65	0.44
25:BA:31:C:C4	25:BA:32:C:C5	3.06	0.44
25:BA:459:U:H5	25:BA:469:G:C2	2.35	0.44
25:BA:623:G:OP2	37:BO:105:LEU:CD1	2.60	0.44
25:BA:650:C:N3	25:BA:651:G:N3	2.66	0.44
25:BA:67:U:C2	25:BA:68:G:C8	3.06	0.44
25:BA:67:U:C2	25:BA:68:G:N7	2.86	0.44
25:BA:682:G:C2'	25:BA:683:C:H5'	2.48	0.44
25:BA:72:U:O4'	49:B1:56:LEU:HD23	2.18	0.44
25:BA:749:C:H3'	25:BA:749:C:C6	2.52	0.44
25:BA:839:U:O2	25:BA:940:G:C2	2.70	0.44
25:BA:940:G:C2	25:BA:941:A:C8	3.05	0.44
25:BA:940:G:N1	25:BA:941:A:C8	2.86	0.44
26:BB:37:C:C4	26:BB:49:C:O4'	2.71	0.44
27:BC:225:ASN:O	27:BC:225:ASN:CG	2.55	0.44
28:BD:117:VAL:HG13	28:BD:129:ASN:CA	2.48	0.44
28:BD:157:ARG:O	28:BD:158:ALA:C	2.55	0.44
28:BD:136:ILE:CB	28:BD:168:ARG:NH2	2.65	0.44
28:BD:120:GLY:HA2	28:BD:190:TYR:OH	2.18	0.44
28:BD:10:THR:CA	28:BD:23:GLU:OE2	2.62	0.44
28:BD:234:GLY:H	28:BD:241:PRO:CG	2.28	0.44
25:BA:1799:G:N7	28:BD:268:ARG:NH1	2.64	0.44
28:BD:54:ARG:HE	28:BD:221:VAL:HG23	1.82	0.44
29:BE:26:ILE:CA	29:BE:181:LEU:HD23	2.47	0.44
30:BF:155:LEU:CA	30:BF:189:THR:HG21	2.48	0.44
30:BF:18:ARG:CG	30:BF:19:GLU:H	2.26	0.44
25:BA:449:A:O3'	30:BF:52:LYS:HD3	2.18	0.44
30:BF:88:VAL:O	30:BF:89:VAL:O	2.36	0.44
31:BG:166:ASP:O	31:BG:168:GLU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:37:VAL:N	31:BG:99:MET:SD	2.88	0.44
33:BK:9:LEU:O	33:BK:9:LEU:CD2	2.66	0.44
35:BM:55:VAL:HG21	35:BM:129:PRO:HG2	1.95	0.44
36:BN:102:VAL:O	36:BN:103:ALA:C	2.56	0.44
36:BN:10:VAL:HG23	36:BN:83:ALA:O	2.17	0.44
25:BA:625:G:O6	37:BO:100:LEU:CB	2.66	0.44
37:BO:65:ARG:HB2	37:BO:66:GLY:H	1.63	0.44
38:BP:134:ARG:HH11	38:BP:135:ASP:CA	2.30	0.44
38:BP:75:THR:HG22	38:BP:77:LYS:HD2	1.99	0.44
38:BP:75:THR:O	38:BP:77:LYS:NZ	2.50	0.44
38:BP:98:LYS:N	38:BP:98:LYS:CE	2.81	0.44
39:BQ:20:LEU:O	39:BQ:21:TYR:C	2.55	0.44
41:BS:33:LYS:HD3	41:BS:45:PHE:CE2	2.47	0.44
41:BS:56:GLY:O	41:BS:61:PHE:CA	2.66	0.44
41:BS:85:LYS:HG2	41:BS:86:ILE:N	2.31	0.44
42:BT:45:TYR:HB3	42:BT:49:HIS:CE1	2.52	0.44
42:BT:81:HIS:C	42:BT:117:GLN:NE2	2.71	0.44
43:BU:22:VAL:HG11	43:BU:24:LYS:HZ3	1.83	0.44
43:BU:23:GLU:OE1	43:BU:25:LEU:HB2	2.17	0.44
43:BU:80:GLN:C	43:BU:82:ARG:N	2.67	0.44
44:BV:36:LEU:HD11	44:BV:48:ALA:N	2.33	0.44
44:BV:52:GLU:HA	44:BV:52:GLU:OE2	2.16	0.44
44:BV:82:LEU:CB	44:BV:98:LYS:NZ	2.81	0.44
45:BW:36:LYS:HE3	45:BW:56:THR:CG2	2.47	0.44
25:BA:1340:U:H5''	45:BW:57:LEU:CD1	2.47	0.44
45:BW:83:VAL:HB	45:BW:84:ALA:H	1.55	0.44
46:BX:1:MET:HA	46:BX:33:LYS:CE	2.48	0.44
47:BY:130:PRO:C	47:BY:132:ASN:N	2.69	0.44
47:BY:105:VAL:O	47:BY:140:ASP:OD2	2.35	0.44
25:BA:1066:U:O2'	25:BA:1068:G:H8	1.99	0.44
25:BA:1072:C:H42	25:BA:1100:C:N4	2.10	0.44
25:BA:1091:G:N1	25:BA:1101:U:C4	2.82	0.44
1:AA:91:C:O2	1:AA:92:G:C8	2.71	0.44
33:BK:134:PRO:HG2	33:BK:135:GLU:OE2	2.18	0.44
28:BD:18:VAL:CG1	28:BD:18:VAL:O	2.66	0.44
1:AA:1049:U:H1'	1:AA:1201:A:H8	1.79	0.44
1:AA:1111:A:H2'	1:AA:1112:C:H6	1.74	0.44
1:AA:1143:G:C2'	1:AA:1144:G:H8	2.28	0.44
1:AA:1165:C:H2'	1:AA:1166:G:C5'	2.47	0.44
1:AA:122:G:O5'	1:AA:122:G:C8	2.71	0.44
1:AA:819:A:N3	1:AA:1529:G:O6	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:225:C:H2'	1:AA:225:C:O2	2.16	0.44
1:AA:275:G:C6	1:AA:276:G:N7	2.86	0.44
1:AA:293:G:N2	1:AA:294:U:H1'	2.31	0.44
1:AA:421:U:O5'	1:AA:422:C:H5	2.01	0.44
1:AA:458:C:N4	1:AA:464:G:N1	2.65	0.44
1:AA:559:A:HO2'	1:AA:560:U:P	2.40	0.44
1:AA:563:A:H1'	1:AA:566:G:C2'	2.48	0.44
1:AA:62:U:H2'	1:AA:63:C:C6	2.53	0.44
1:AA:677:U:C2	1:AA:678:U:C5	3.05	0.44
1:AA:675:A:C2	1:AA:716:A:H2	2.35	0.44
1:AA:721:G:H1'	1:AA:722:A:C6	2.53	0.44
1:AA:577:G:C8	1:AA:816:A:N1	2.85	0.44
1:AA:981:U:C3'	1:AA:981:U:C6	3.01	0.44
2:AC:19:G:C3'	2:AC:20:U:C4	2.90	0.44
2:AC:57:A:C3'	2:AC:58:A:H5''	2.47	0.44
3:AD:33:U:H3'	3:AD:34:G:C5'	2.48	0.44
5:AE:88:ALA:CB	5:AE:219:VAL:HG22	2.48	0.44
1:AA:421:U:N3	6:AF:127:ARG:NH1	2.66	0.44
6:AF:147:LYS:CE	6:AF:147:LYS:HA	2.44	0.44
6:AF:150:LYS:HA	6:AF:169:ALA:CB	2.48	0.44
6:AF:184:TYR:CG	6:AF:185:GLY:N	2.86	0.44
7:AG:198:VAL:CG2	7:AG:199:ASN:H	2.28	0.44
9:AI:18:GLN:O	9:AI:19:LEU:C	2.56	0.44
9:AI:85:VAL:CG1	9:AI:88:VAL:CG2	2.91	0.44
10:AJ:10:ARG:CG	10:AJ:10:ARG:NH1	2.81	0.44
10:AJ:76:ARG:O	10:AJ:156:TRP:CH2	2.71	0.44
11:AK:32:LYS:HE3	11:AK:32:LYS:HB3	1.91	0.44
1:AA:1179:A:O3'	12:AL:102:LEU:O	2.36	0.44
1:AA:1347:G:C3'	12:AL:107:ARG:HB3	2.47	0.44
1:AA:1341:U:O2'	12:AL:126:SER:O	2.16	0.44
12:AL:33:PHE:C	12:AL:35:GLU:N	2.70	0.44
13:AM:16:LEU:HD13	13:AM:94:VAL:CG2	2.45	0.44
13:AM:6:ILE:CG1	13:AM:72:VAL:HB	2.47	0.44
14:AN:17:GLY:N	14:AN:77:MET:SD	2.91	0.44
14:AN:39:PRO:HA	14:AN:40:ILE:HD13	2.00	0.44
15:AO:73:GLU:HB2	15:AO:110:VAL:HG12	2.00	0.44
16:AP:3:ARG:HH22	31:BG:139:LEU:HD21	1.76	0.44
19:AS:21:VAL:O	19:AS:22:THR:HG22	2.17	0.44
19:AS:42:ARG:O	19:AS:43:LYS:CB	2.64	0.44
19:AS:49:LEU:CD2	19:AS:51:VAL:HG23	2.47	0.44
20:AT:65:ILE:O	20:AT:66:SER:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:55:LYS:HG2	22:AV:56:GLN:NE2	2.33	0.44
22:AV:40:ILE:C	22:AV:68:GLY:HA2	2.37	0.44
1:AA:191:G:H21	23:AW:103:GLY:C	2.20	0.44
50:B2:8:LEU:HD12	50:B2:31:LEU:C	2.38	0.44
51:B3:5:ILE:HA	51:B3:57:GLU:HG3	2.00	0.44
52:B4:49:CYS:O	52:B4:50:GLY:C	2.56	0.44
53:B5:19:ARG:HH22	53:B5:41:PRO:HD2	1.83	0.44
25:BA:1613:G:H1'	54:B6:3:ARG:CZ	2.48	0.44
55:B7:23:VAL:HG23	55:B7:48:PHE:HB2	1.98	0.44
37:BO:49:ARG:CG	55:B7:52:LYS:CD	2.95	0.44
55:B7:57:ARG:HB2	55:B7:57:ARG:HH11	1.78	0.44
55:B7:5:LYS:NZ	55:B7:63:PRO:HG3	2.33	0.44
56:B8:8:LYS:C	56:B8:9:ARG:O	2.55	0.44
25:BA:1212:G:O6	25:BA:1236:G:O6	2.35	0.44
25:BA:1259:G:O2'	25:BA:1260:G:O4'	2.20	0.44
25:BA:1304:C:H2'	25:BA:1305:C:O5'	2.17	0.44
25:BA:1309:G:C2'	25:BA:1310:G:C5'	2.93	0.44
25:BA:1339:G:O4'	25:BA:1393:A:C2	2.70	0.44
25:BA:1433:U:HO2'	25:BA:1434:A:P	2.41	0.44
25:BA:1436:G:C2	25:BA:1437:C:C2	3.05	0.44
25:BA:1449:A:C2	25:BA:1449(A):G:C1'	2.97	0.44
25:BA:1455:G:N2	25:BA:1456:G:H1'	2.33	0.44
25:BA:1472:A:N6	25:BA:1518:C:N4	2.66	0.44
25:BA:1517:G:C2	25:BA:1518:C:C2	3.06	0.44
25:BA:1469:A:H62	25:BA:1522:G:H1	1.56	0.44
25:BA:1524:G:C6	25:BA:1525:G:C5	3.05	0.44
25:BA:1559:G:C5'	25:BA:1559:G:C8	3.00	0.44
25:BA:1626:G:C2	25:BA:1634:A:N3	2.86	0.44
25:BA:1640:C:H3'	25:BA:1641:A:H8	1.82	0.44
25:BA:1676:A:H2	25:BA:1993:U:C4'	2.31	0.44
25:BA:1688:U:O2'	25:BA:1689:A:C8	2.71	0.44
25:BA:1844:C:O2'	25:BA:1845:G:C5'	2.66	0.44
25:BA:2118:U:H5''	25:BA:2119:A:P	2.57	0.44
25:BA:2333:A:H4'	25:BA:2335:A:C5'	2.47	0.44
25:BA:2349:G:H3'	25:BA:2350:C:C5'	2.46	0.44
25:BA:233:A:N6	25:BA:234:C:C4	2.86	0.44
25:BA:2388:A:N7	25:BA:2389:G:C5	2.85	0.44
25:BA:2524:G:N3	25:BA:2525:G:H1'	2.31	0.44
25:BA:2651:C:H2'	25:BA:2652:C:C6	2.52	0.44
25:BA:2653:U:N3	25:BA:2654:A:N6	2.44	0.44
25:BA:221:A:N7	25:BA:266:G:C6	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:266:G:C6	25:BA:267:C:C4	3.06	0.44
25:BA:2687:U:C2	25:BA:2688:U:C6	3.05	0.44
25:BA:270(G):C:C2'	25:BA:270(G):C:O2	2.61	0.44
25:BA:271(B):G:H5''	25:BA:271(C):U:H5'	1.99	0.44
25:BA:2761:G:H2'	25:BA:2762:G:C5'	2.47	0.44
25:BA:2740:A:C6	25:BA:2764:A:C4	3.05	0.44
25:BA:281:G:C4	25:BA:281:G:OP1	2.70	0.44
25:BA:283:A:C5'	25:BA:283:A:C8	2.98	0.44
25:BA:301:G:C2	25:BA:302:C:N3	2.86	0.44
25:BA:311:A:O2'	25:BA:312:G:OP2	2.33	0.44
25:BA:483:A:C2	25:BA:484:C:C1'	3.00	0.44
25:BA:543:C:C2	25:BA:544:C:C5	3.06	0.44
25:BA:626:U:H4'	25:BA:653:A:N1	2.31	0.44
25:BA:633:A:O5'	25:BA:633:A:H8	2.00	0.44
25:BA:714:U:O4	25:BA:717:G:OP2	2.36	0.44
25:BA:752:A:O2'	25:BA:753:C:O5'	2.36	0.44
25:BA:835:A:C4'	25:BA:2358:G:C1'	2.96	0.44
25:BA:872:A:O3'	38:BP:66:ILE:HD13	2.18	0.44
25:BA:917:A:H2	25:BA:918:A:C4	2.35	0.44
25:BA:971:C:H2'	25:BA:972:G:H1'	2.00	0.44
25:BA:978:G:N7	25:BA:979:G:O6	2.51	0.44
26:BB:30:C:C4	26:BB:31:C:C6	3.06	0.44
26:BB:33:G:C2'	26:BB:34:U:C6	3.00	0.44
26:BB:35:U:O2	26:BB:35:U:C2'	2.66	0.44
27:BC:19:ILE:HG23	27:BC:223:ARG:C	2.38	0.44
27:BC:47:LEU:CD1	27:BC:49:ILE:HD13	2.38	0.44
27:BC:56:GLN:HG2	27:BC:201:PRO:HB2	1.99	0.44
25:BA:2216:G:H21	28:BD:150:LYS:NZ	2.15	0.44
28:BD:106:ILE:HD12	28:BD:192:THR:HG21	1.91	0.44
25:BA:2513:G:OP1	29:BE:120:TRP:CZ3	2.70	0.44
29:BE:33:VAL:HG23	29:BE:34:VAL:N	2.33	0.44
29:BE:97:LYS:C	29:BE:97:LYS:HD2	2.37	0.44
30:BF:137:LYS:C	30:BF:137:LYS:HZ2	2.21	0.44
30:BF:176:LEU:CD2	30:BF:180:GLY:O	2.62	0.44
30:BF:5:ALA:HB2	30:BF:24:LEU:CD1	2.48	0.44
30:BF:39:TRP:CZ3	30:BF:99:TYR:HB3	2.53	0.44
31:BG:49:ASP:HA	31:BG:53:LEU:CD1	2.48	0.44
32:BH:76:VAL:O	32:BH:79:VAL:HG22	2.18	0.44
32:BH:90:LYS:CG	32:BH:90:LYS:O	2.65	0.44
25:BA:2093:G:HO2'	33:BK:29:TYR:CB	2.29	0.44
33:BK:4:ILE:HD11	33:BK:39:ALA:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:12:ARG:NE	35:BM:12:ARG:N	2.65	0.44
35:BM:15:LEU:HD11	35:BM:137:LYS:O	2.18	0.44
36:BN:106:LEU:O	36:BN:109:LYS:N	2.50	0.44
36:BN:13:ASN:HA	36:BN:94:ARG:NH1	2.32	0.44
37:BO:107:LYS:O	37:BO:107:LYS:HG3	2.16	0.44
37:BO:65:ARG:NH1	37:BO:68:GLN:N	2.63	0.44
37:BO:77:ARG:C	37:BO:79:ARG:H	2.21	0.44
38:BP:37:LEU:HG	38:BP:129:THR:C	2.38	0.44
38:BP:85:LYS:C	38:BP:87:LYS:H	2.21	0.44
39:BQ:85:PRO:O	39:BQ:88:ARG:N	2.50	0.44
41:BS:17:THR:CB	41:BS:20:PRO:CD	2.93	0.44
41:BS:26:ASP:H	41:BS:94:ALA:HB1	1.82	0.44
25:BA:1009:A:H1'	42:BT:59:ARG:CZ	2.47	0.44
42:BT:8:VAL:HG13	42:BT:11:ARG:HH11	1.83	0.44
43:BU:62:LEU:HA	43:BU:99:ILE:CG1	2.47	0.44
44:BV:13:SER:O	44:BV:17:VAL:CG1	2.57	0.44
44:BV:3:ALA:CB	44:BV:58:ALA:HB2	2.42	0.44
45:BW:11:PRO:HB2	45:BW:13:LEU:HD21	2.00	0.44
45:BW:21:PHE:CZ	45:BW:27:THR:OG1	2.68	0.44
45:BW:33:LYS:CD	45:BW:33:LYS:C	2.84	0.44
45:BW:62:LYS:O	45:BW:72:LYS:CA	2.65	0.44
46:BX:72:VAL:HG21	46:BX:81:LYS:HZ3	1.82	0.44
46:BX:74:PRO:CD	46:BX:76:CYS:O	2.66	0.44
47:BY:105:VAL:HB	47:BY:140:ASP:CG	2.35	0.44
33:BK:100:ALA:O	33:BK:104:GLN:HB2	2.17	0.44
33:BK:68:LEU:HD23	33:BK:68:LEU:HA	1.69	0.44
34:BL:139:VAL:O	34:BL:139:VAL:HG12	2.17	0.44
34:BL:79:ARG:NH1	34:BL:86:LYS:O	2.51	0.44
34:BL:79:ARG:HA	34:BL:82:ALA:HB3	1.98	0.44
25:BA:2153:G:O2'	25:BA:2154:G:H5'	2.18	0.44
2:AC:25:C:H2'	2:AC:26:G:O4'	2.17	0.44
31:BG:108:ASN:N	31:BG:108:ASN:OD1	2.49	0.44
4:A1:8:A:H8	4:A1:8:A:C5'	2.31	0.44
38:BP:139:GLU:OE1	38:BP:140:ALA:O	2.36	0.44
1:AA:1077:G:C4	1:AA:1081:G:N1	2.86	0.44
1:AA:1091:U:C5	1:AA:1093:A:OP2	2.71	0.44
1:AA:1069:C:H1'	1:AA:1191:A:H2	1.81	0.44
1:AA:1198:G:H2'	1:AA:1199:U:C4'	2.48	0.44
1:AA:1352:C:N3	1:AA:1371:G:C6	2.86	0.44
1:AA:1383:C:O2'	1:AA:1384:C:H5'	2.18	0.44
1:AA:1415:G:C6	1:AA:1486:G:C6	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:179:A:C2	1:AA:180:U:H1'	2.52	0.44
1:AA:226:G:O2'	1:AA:227:G:O4'	2.27	0.44
1:AA:270:A:O2'	1:AA:271:C:H5'	2.18	0.44
1:AA:277:C:N3	1:AA:278:G:C8	2.86	0.44
1:AA:243:A:H61	1:AA:281:G:HO2'	1.64	0.44
1:AA:451:A:C4	1:AA:452:A:N6	2.86	0.44
1:AA:533:A:H2'	1:AA:534:U:O5'	2.18	0.44
1:AA:558:G:OP2	1:AA:559:A:O3'	2.35	0.44
1:AA:566:G:C8	1:AA:566:G:O5'	2.67	0.44
1:AA:676:A:H2'	1:AA:677:U:O5'	2.18	0.44
1:AA:73:G:N2	1:AA:74:C:C2	2.86	0.44
1:AA:760:G:C2'	20:AT:103:GLY:CA	2.92	0.44
1:AA:763:G:C2'	1:AA:764:C:O5'	2.66	0.44
1:AA:808:C:C4	1:AA:809:G:N7	2.86	0.44
1:AA:898:G:N1	1:AA:902:G:C5	2.86	0.44
1:AA:910:C:H2'	1:AA:911:U:O4'	2.18	0.44
1:AA:947:G:N2	1:AA:948:C:C2	2.86	0.44
1:AA:950:U:C6	16:AP:102:ARG:NH2	2.86	0.44
2:AC:31:G:H3'	2:AC:32:C:H5	1.83	0.44
3:AD:18:G:H1'	3:AD:58:A:C1'	2.48	0.44
5:AE:164:VAL:HG21	5:AE:170:GLU:HB2	2.00	0.44
6:AF:59:ARG:NE	6:AF:64:VAL:CA	2.80	0.44
6:AF:5:ILE:HG23	13:AM:51:ARG:NH1	2.18	0.44
7:AG:108:LEU:CD1	7:AG:183:GLY:HA3	2.47	0.44
7:AG:3:ARG:HE	7:AG:71:SER:CB	2.31	0.44
7:AG:85:LYS:NZ	7:AG:85:LYS:HB2	2.33	0.44
8:AH:99:GLY:C	8:AH:101:ILE:HD13	2.38	0.44
8:AH:149:GLU:O	8:AH:150:ARG:C	2.56	0.44
8:AH:34:VAL:CG1	8:AH:35:GLY:N	2.81	0.44
8:AH:84:PHE:CD1	8:AH:134:ALA:CA	2.99	0.44
9:AI:10:LEU:N	9:AI:10:LEU:CD2	2.80	0.44
10:AJ:66:VAL:HG12	10:AJ:70:LYS:CD	2.48	0.44
11:AK:14:ARG:HD2	11:AK:15:ASN:N	2.32	0.44
11:AK:32:LYS:O	11:AK:35:ILE:N	2.51	0.44
11:AK:85:ARG:HG2	11:AK:85:ARG:NH1	2.33	0.44
12:AL:97:LYS:HZ2	12:AL:102:LEU:CD2	2.31	0.44
13:AM:9:ARG:HH11	13:AM:9:ARG:HB3	1.83	0.44
14:AN:24:SER:OG	14:AN:25:TYR:N	2.50	0.44
15:AO:36:VAL:HG23	15:AO:82:VAL:CG2	2.48	0.44
15:AO:84:LEU:HB3	15:AO:104:VAL:CG1	2.35	0.44
16:AP:102:ARG:HD3	16:AP:102:ARG:HA	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:9:LYS:HZ3	17:AQ:10:ALA:HB2	1.83	0.44
17:AQ:11:LYS:O	17:AQ:13:THR:N	2.51	0.44
17:AQ:24:CYS:HB3	17:AQ:29:ARG:O	2.18	0.44
18:AR:36:ILE:CD1	18:AR:59:MET:SD	3.06	0.44
19:AS:16:HIS:HE1	19:AS:42:ARG:NH2	2.15	0.44
20:AT:70:ARG:C	20:AT:71:PHE:HD1	2.21	0.44
20:AT:8:GLY:O	20:AT:56:VAL:CG1	2.63	0.44
21:AU:50:ILE:O	21:AU:51:LEU:O	2.36	0.44
21:AU:58:LEU:O	21:AU:59:SER:O	2.36	0.44
22:AV:14:HIS:HD2	22:AV:35:SER:HB3	1.83	0.44
22:AV:36:ARG:HG3	22:AV:36:ARG:HH11	1.83	0.44
23:AW:25:ARG:O	23:AW:28:ALA:CB	2.55	0.44
49:B1:47:ASP:O	49:B1:48:LEU:C	2.56	0.44
49:B1:59:LEU:HD11	49:B1:63:ARG:CG	2.48	0.44
50:B2:32:GLN:OE1	50:B2:32:GLN:CA	2.64	0.44
50:B2:37:LEU:HG	50:B2:38:GLU:O	2.17	0.44
52:B4:10:LYS:CD	52:B4:15:ARG:NH1	2.81	0.44
52:B4:13:LYS:HD3	52:B4:13:LYS:N	2.32	0.44
53:B5:15:GLU:CD	53:B5:20:ASN:O	2.56	0.44
53:B5:25:LYS:CG	55:B7:35:GLN:CG	2.96	0.44
53:B5:35:GLU:O	53:B5:52:VAL:CG2	2.66	0.44
55:B7:25:MET:C	55:B7:27:THR:HG22	2.38	0.44
56:B8:7:VAL:HG12	56:B8:7:VAL:O	2.17	0.44
25:BA:1176:G:H3'	25:BA:1177:A:C5'	2.48	0.44
25:BA:1221:C:C2'	25:BA:1221:C:O2	2.66	0.44
25:BA:1232:G:C2	25:BA:1233:C:C6	3.06	0.44
25:BA:489:G:C8	25:BA:1284:A:C2	3.06	0.44
25:BA:1388:G:C4	25:BA:1389:G:C8	3.06	0.44
25:BA:139:G:C2'	25:BA:140:A:O5'	2.66	0.44
25:BA:1464:C:C5'	25:BA:1528:A:O2'	2.65	0.44
25:BA:1666:G:N2	25:BA:1995:U:O2	2.50	0.44
25:BA:1679:U:C4	25:BA:1764:G:H5''	2.52	0.44
25:BA:1691:C:HO2'	25:BA:1692:U:H5'	1.77	0.44
25:BA:1716:U:O2	25:BA:1717:G:C8	2.71	0.44
25:BA:1679:U:O4	25:BA:1764:G:OP2	2.36	0.44
25:BA:1809:A:N1	51:B3:3:GLU:OE1	2.50	0.44
25:BA:1859:A:H61	25:BA:1883:G:C2'	2.31	0.44
25:BA:1838:C:C2'	25:BA:1898:U:C4	3.01	0.44
25:BA:1907:G:C5	25:BA:1908:C:C5	3.06	0.44
25:BA:1915:U:C2	25:BA:1916:A:N6	2.84	0.44
25:BA:1933:G:H3'	25:BA:1934:C:H6	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1957:C:H2'	25:BA:1958:C:H6	1.82	0.44
25:BA:2133:G:OP2	25:BA:2133:G:H8	1.99	0.44
25:BA:2189:U:O2'	25:BA:2190:G:O5'	2.35	0.44
25:BA:2194:G:C2	25:BA:2195:C:C4	3.05	0.44
25:BA:2289:G:O2'	25:BA:2383:G:H1'	2.17	0.44
25:BA:2358:G:C8	25:BA:2358:G:O5'	2.71	0.44
25:BA:411:G:N2	25:BA:2408:U:H3	2.03	0.44
25:BA:2426:A:H3'	25:BA:2427:C:H5'	1.92	0.44
25:BA:245:G:C4	25:BA:246:C:H5	2.36	0.44
25:BA:252:G:N7	55:B7:8:LYS:NZ	2.61	0.44
25:BA:252:G:C2'	25:BA:253:C:H5'	2.48	0.44
25:BA:2586:C:H2'	25:BA:2587:A:N7	2.33	0.44
25:BA:2602:A:C5	48:BZ:2:ALA:HA	2.52	0.44
25:BA:2671:A:O2'	25:BA:2672:G:C5'	2.59	0.44
25:BA:2679:A:C2'	25:BA:2680:C:H5'	2.48	0.44
25:BA:2695:C:O2'	25:BA:2696:U:C6	2.71	0.44
25:BA:2749:A:N7	25:BA:2750:A:N7	2.66	0.44
25:BA:284:U:OP2	25:BA:284:U:C3'	2.65	0.44
25:BA:2893:G:OP2	25:BA:2893:G:O4'	2.36	0.44
25:BA:536:A:H2'	25:BA:537:C:O4'	2.17	0.44
25:BA:551:G:O4'	25:BA:1220:A:N1	2.51	0.44
25:BA:566:U:H5''	25:BA:567:A:OP2	2.18	0.44
25:BA:598:G:N2	25:BA:599:G:H1'	2.32	0.44
25:BA:620:G:OP2	25:BA:620:G:O4'	2.36	0.44
25:BA:626:U:O4	37:BO:74:GLU:OE2	2.34	0.44
25:BA:687:C:H2'	25:BA:688:U:N1	2.33	0.44
25:BA:729:G:C5	25:BA:730:C:N1	2.85	0.44
25:BA:699:A:N7	25:BA:734:A:C6	2.85	0.44
25:BA:827:U:O5'	25:BA:828:U:N3	2.51	0.44
25:BA:879:G:N2	25:BA:880:G:N9	2.66	0.44
25:BA:882:G:N1	25:BA:883:G:C5	2.86	0.44
25:BA:910:A:H2'	25:BA:911:A:O5'	2.17	0.44
25:BA:975:G:N2	25:BA:976:C:H6	2.13	0.44
25:BA:996:A:O3'	42:BT:93:LYS:HG2	2.17	0.44
26:BB:29:A:C5	26:BB:30:C:C4	3.05	0.44
26:BB:41:U:OP2	26:BB:41:U:C6	2.71	0.44
27:BC:110:PHE:HD1	27:BC:113:VAL:HG22	1.78	0.44
28:BD:121:PRO:CA	28:BD:135:PHE:HE2	2.23	0.44
25:BA:1814:G:OP1	28:BD:43:ARG:HG3	2.18	0.44
28:BD:91:ARG:HH11	28:BD:91:ARG:CA	2.30	0.44
25:BA:1675:C:H5	29:BE:129:HIS:CE1	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:30:PRO:HG2	29:BE:90:THR:HG22	1.98	0.44
30:BF:110:LEU:HD11	30:BF:181:LEU:CD2	2.48	0.44
30:BF:91:GLY:C	30:BF:93:LYS:N	2.70	0.44
30:BF:99:TYR:O	30:BF:100:THR:C	2.55	0.44
31:BG:115:ARG:HH21	31:BG:115:ARG:CG	2.27	0.44
32:BH:102:ALA:HA	32:BH:115:VAL:HG12	2.00	0.44
32:BH:60:ARG:HG2	32:BH:64:LEU:HD12	2.00	0.44
32:BH:67:LEU:O	32:BH:68:THR:C	2.55	0.44
32:BH:94:TYR:O	32:BH:95:ARG:CD	2.65	0.44
33:BK:7:GLU:HG3	33:BK:14:ASP:OD1	2.17	0.44
35:BM:12:ARG:CG	35:BM:12:ARG:O	2.65	0.44
35:BM:17:ASP:CA	35:BM:21:LYS:HZ2	2.31	0.44
35:BM:12:ARG:NH1	35:BM:48:MET:SD	2.91	0.44
36:BN:5:GLN:O	36:BN:5:GLN:HG2	2.18	0.44
36:BN:86:ILE:HD13	36:BN:90:GLN:HG3	2.00	0.44
37:BO:111:ARG:HB2	37:BO:128:HIS:NE2	2.31	0.44
37:BO:56:SER:CB	55:B7:13:ARG:HE	2.27	0.44
38:BP:109:VAL:CG2	38:BP:113:GLN:HB2	2.47	0.44
38:BP:48:GLU:CA	38:BP:48:GLU:OE1	2.65	0.44
39:BQ:8:ARG:O	39:BQ:9:LYS:CG	2.62	0.44
41:BS:68:TYR:CD1	41:BS:69:GLY:N	2.86	0.44
41:BS:95:ARG:HG2	41:BS:96:ARG:N	2.20	0.44
25:BA:1251:C:O5'	42:BT:10:ARG:CD	2.66	0.44
44:BV:14:PRO:HD3	44:BV:78:GLU:OE1	2.17	0.44
44:BV:86:LEU:HD12	44:BV:86:LEU:HA	1.73	0.44
45:BW:44:GLU:HA	45:BW:49:VAL:HG22	1.98	0.44
45:BW:8:ILE:CA	45:BW:9:LEU:HD12	2.48	0.44
46:BX:44:ILE:C	46:BX:46:LYS:H	2.21	0.44
47:BY:102:LEU:HA	47:BY:137:ILE:O	2.18	0.44
47:BY:57:ILE:HG12	47:BY:70:LEU:CA	2.48	0.44
25:BA:1078:U:C5'	25:BA:1079:C:OP1	2.60	0.44
33:BK:133:HIS:CG	33:BK:134:PRO:HD2	2.52	0.44
25:BA:1628:G:H2'	25:BA:1629:U:C6	2.53	0.44
1:AA:10:A:H2'	1:AA:11:G:H5'	1.98	0.44
1:AA:1153:C:C4	1:AA:1154:G:C6	3.05	0.44
1:AA:114:U:O2'	1:AA:115:G:C5'	2.65	0.44
1:AA:1160:G:C2	1:AA:1161:C:C6	3.06	0.44
1:AA:1177:G:P	12:AL:93:ARG:NH2	2.90	0.44
1:AA:1200:C:H5'	1:AA:1201:A:O3'	2.16	0.44
1:AA:126:G:C2	1:AA:127:G:N9	2.86	0.44
1:AA:1330:U:C4	1:AA:1331:G:N7	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1344:C:O5'	1:AA:1344:C:H6	2.00	0.44
1:AA:1353:G:C2	1:AA:1370:G:N2	2.86	0.44
1:AA:1345:U:C5	1:AA:1377:A:C2	3.05	0.44
1:AA:1412:C:O2	1:AA:1412:C:H2'	2.17	0.44
1:AA:1425:U:C2	1:AA:1476:G:N1	2.86	0.44
1:AA:1513:A:C2	1:AA:1523:G:C6	3.06	0.44
1:AA:1528:U:N3	1:AA:1530:G:H8	2.15	0.44
1:AA:259:G:H21	1:AA:260:G:H1'	1.81	0.44
1:AA:324:G:N2	1:AA:327:A:OP2	2.50	0.44
1:AA:363:A:N1	1:AA:364:A:C4	2.86	0.44
1:AA:565:U:OP1	1:AA:566:G:O3'	2.36	0.44
1:AA:572:A:H1'	1:AA:917:G:O4'	2.17	0.44
1:AA:665:A:C8	1:AA:725:G:C2	3.05	0.44
1:AA:798:G:C2	1:AA:799:G:C8	3.05	0.44
1:AA:799:G:C6	1:AA:800:G:N3	2.86	0.44
1:AA:874:G:C2	1:AA:875:C:C2	3.06	0.44
1:AA:932:C:H5'	10:AJ:3:ARG:HB3	1.99	0.44
1:AA:962:C:C4	1:AA:963:G:C5	3.05	0.44
1:AA:983:A:C3'	1:AA:983:A:N3	2.80	0.44
2:AC:33:U:H2'	2:AC:34:C:H3'	2.00	0.44
5:AE:165:VAL:O	5:AE:187:LEU:O	2.35	0.44
6:AF:8:ILE:C	6:AF:10:PHE:N	2.69	0.44
6:AF:94:LEU:O	6:AF:95:THR:CB	2.66	0.44
7:AG:19:LEU:CD2	7:AG:21:LEU:HD12	2.47	0.44
7:AG:67:ILE:HD12	7:AG:68:TYR:CD1	2.53	0.44
8:AH:57:LYS:CG	8:AH:61:TYR:HE2	2.25	0.44
8:AH:57:LYS:HE3	8:AH:61:TYR:OH	2.17	0.44
9:AI:89:MET:HE1	21:AU:75:ILE:HD13	2.00	0.44
1:AA:643:C:O2'	11:AK:132:GLU:OE1	2.25	0.44
11:AK:72:PRO:HG2	11:AK:72:PRO:O	2.17	0.44
1:AA:1117:G:P	12:AL:104:ARG:HH11	2.39	0.44
14:AN:22:HIS:HA	14:AN:85:ARG:HB2	1.98	0.44
14:AN:99:GLN:CA	14:AN:105:VAL:HG21	2.47	0.44
1:AA:362:G:O5'	15:AO:34:ARG:NH2	2.50	0.44
1:AA:1226:C:OP2	16:AP:103:THR:HB	2.18	0.44
16:AP:7:VAL:HG13	31:BG:114:ILE:HG12	2.00	0.44
18:AR:18:PHE:CD2	18:AR:18:PHE:N	2.85	0.44
18:AR:69:TYR:HD1	18:AR:72:ARG:NE	2.16	0.44
18:AR:69:TYR:CZ	18:AR:73:GLU:HG3	2.53	0.44
19:AS:20:VAL:HG11	19:AS:32:TYR:CB	2.48	0.44
19:AS:67:THR:CB	19:AS:70:ALA:CB	2.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:74:LEU:HD22	19:AS:79:VAL:CG2	2.48	0.44
20:AT:83:ASP:O	20:AT:86:GLU:CB	2.52	0.44
22:AV:71:LEU:O	22:AV:72:GLY:C	2.55	0.44
50:B2:28:LEU:CD2	50:B2:33:GLN:NE2	2.80	0.44
50:B2:52:HIS:ND1	50:B2:52:HIS:N	2.66	0.44
25:BA:687:C:C5'	54:B6:4:THR:HB	2.46	0.44
56:B8:17:ILE:HD12	56:B8:26:ILE:CD1	2.48	0.44
56:B8:19:ARG:HD2	56:B8:24:TYR:CG	2.52	0.44
25:BA:1025:G:N3	25:BA:1025:G:H3'	2.33	0.44
25:BA:9:U:H2'	25:BA:10:G:O5'	2.18	0.44
25:BA:1174:A:N6	25:BA:1177:A:N3	2.55	0.44
25:BA:1205:U:H2'	25:BA:1207:C:C5	2.52	0.44
25:BA:1223:C:O2	25:BA:1223:C:H2'	2.17	0.44
25:BA:1240:U:H2'	25:BA:1241:A:C1'	2.47	0.44
25:BA:1275:A:N6	25:BA:1296:G:C5'	2.72	0.44
25:BA:1286:A:N1	25:BA:1329:U:H2'	2.32	0.44
25:BA:1366:A:C5'	51:B3:1:MET:H1	2.31	0.44
25:BA:1406:U:C2	25:BA:1407:C:C6	3.05	0.44
25:BA:1463:C:C2'	25:BA:1464:C:O5'	2.66	0.44
25:BA:1447:G:C1'	25:BA:1545(A):A:O4'	2.66	0.44
25:BA:1444:G:N2	25:BA:1548:C:C6	2.85	0.44
25:BA:1571:A:H2	25:BA:1572:A:N7	2.16	0.44
25:BA:1498:C:C5	25:BA:1576:U:H1'	2.52	0.44
25:BA:1622:G:N1	25:BA:1623:G:C5	2.86	0.44
25:BA:1695:G:N2	25:BA:1696:G:C8	2.86	0.44
25:BA:1735:C:H42	25:BA:1741:C:N4	2.15	0.44
25:BA:1707:G:C4	25:BA:1756:G:C2	3.06	0.44
25:BA:1793:C:O2'	25:BA:1900:A:N1	2.37	0.44
1:AA:1517:G:C8	25:BA:1920:C:OP1	2.70	0.44
25:BA:1940:U:H5'	25:BA:1941:C:OP1	2.18	0.44
25:BA:1998:G:H4'	25:BA:2724:C:O2'	2.18	0.44
25:BA:203:C:OP2	25:BA:203:C:C6	2.71	0.44
25:BA:2244:U:C2'	25:BA:2245:U:O5'	2.65	0.44
25:BA:233:A:C2'	25:BA:234:C:H5'	2.47	0.44
25:BA:2392:A:N6	25:BA:2393:A:C5	2.86	0.44
25:BA:2397:G:O2'	25:BA:2398:U:H5'	2.17	0.44
25:BA:2406:U:C4	37:BO:65:ARG:HA	2.53	0.44
25:BA:227:A:H61	25:BA:2407:G:H8	1.63	0.44
25:BA:2527:C:P	25:BA:2527:C:H3'	2.58	0.44
25:BA:2051:A:H5''	25:BA:2578:G:H5''	1.99	0.44
25:BA:2615:U:C6	52:B4:7:PRO:HD3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:270(Z):U:C2	25:BA:271(B):G:OP1	2.71	0.44
25:BA:272:G:N1	25:BA:273:G:C4	2.86	0.44
25:BA:2769:C:O2'	25:BA:2770:G:H5'	2.17	0.44
25:BA:2793:G:H2'	25:BA:2794:C:C6	2.53	0.44
25:BA:294:A:C3'	25:BA:295:G:C5'	2.95	0.44
25:BA:388:G:C1'	25:BA:390:A:N6	2.75	0.44
25:BA:500:G:H2'	25:BA:501:A:C3'	2.48	0.44
25:BA:833:U:O2'	37:BO:49:ARG:CD	2.66	0.44
25:BA:945:A:C3'	25:BA:946:G:C5'	2.95	0.44
25:BA:987:G:C2'	25:BA:988:A:C5'	2.93	0.44
26:BB:16:G:O2'	26:BB:17:C:H5'	2.18	0.44
26:BB:46:A:C4	26:BB:47:C:N3	2.86	0.44
26:BB:99:A:C2'	26:BB:100:G:H5'	2.48	0.44
25:BA:916:G:C4'	26:BB:99:A:O2'	2.66	0.44
27:BC:131:LEU:HB2	27:BC:137:LEU:CB	2.43	0.44
27:BC:184:LYS:O	27:BC:187:ASP:HB3	2.17	0.44
28:BD:224:ALA:HB2	28:BD:233:HIS:CD2	2.52	0.44
28:BD:31:LYS:HB3	28:BD:31:LYS:HE3	1.82	0.44
28:BD:40:THR:HG22	28:BD:43:ARG:NH2	2.32	0.44
28:BD:45:ASN:OD1	28:BD:50:THR:OG1	2.34	0.44
29:BE:103:ASP:O	29:BE:104:VAL:CG2	2.66	0.44
29:BE:120:TRP:CD1	29:BE:121:ASN:O	2.70	0.44
29:BE:197:ILE:HD13	29:BE:199:ARG:HH22	1.82	0.44
29:BE:64:LYS:HG2	29:BE:67:PHE:CD1	2.52	0.44
30:BF:25:PRO:O	30:BF:26:ALA:C	2.55	0.44
25:BA:669:G:N7	30:BF:54:ARG:NH1	2.65	0.44
31:BG:12:TYR:O	31:BG:13:GLU:C	2.55	0.44
31:BG:24:GLY:O	31:BG:26:GLN:N	2.47	0.44
31:BG:53:LEU:CG	31:BG:72:ARG:NH2	2.78	0.44
31:BG:76:SER:C	31:BG:78:SER:N	2.71	0.44
32:BH:11:VAL:HG13	32:BH:15:VAL:HG12	1.99	0.44
32:BH:125:VAL:N	32:BH:126:PRO:CD	2.81	0.44
32:BH:24:VAL:HG13	32:BH:37:VAL:HG12	1.98	0.44
32:BH:6:ARG:CB	32:BH:6:ARG:CZ	2.95	0.44
32:BH:74:ASN:ND2	32:BH:75:ALA:N	2.66	0.44
35:BM:4:TYR:OH	42:BT:101:ARG:CB	2.66	0.44
35:BM:67:LEU:O	35:BM:68:GLU:CB	2.65	0.44
35:BM:68:GLU:N	35:BM:70:LYS:HE2	2.32	0.44
36:BN:122:LEU:OXT	41:BS:74:ARG:CZ	2.65	0.44
37:BO:101:VAL:O	37:BO:101:VAL:HG23	2.18	0.44
37:BO:125:VAL:O	37:BO:126:VAL:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:47:ASP:O	37:BO:48:PRO:C	2.56	0.44
38:BP:137:TYR:HD2	38:BP:138:ASP:N	2.16	0.44
38:BP:51:ARG:HG3	38:BP:52:VAL:H	1.79	0.44
38:BP:67:ARG:HB2	38:BP:103:MET:HE2	1.99	0.44
39:BQ:13:HIS:CG	39:BQ:14:SER:N	2.86	0.44
29:BE:111:ARG:O	39:BQ:4:LEU:HD12	2.17	0.44
39:BQ:52:ILE:HA	39:BQ:55:ALA:HB2	2.00	0.44
40:BR:100:ALA:C	40:BR:102:ALA:N	2.69	0.44
41:BS:103:ARG:HB3	41:BS:107:ASP:CG	2.37	0.44
41:BS:15:VAL:HG21	41:BS:81:PRO:HG2	2.00	0.44
41:BS:39:ARG:HG3	41:BS:42:ILE:CD1	2.46	0.44
41:BS:73:GLU:OE1	41:BS:106:SER:OG	2.36	0.44
41:BS:85:LYS:HD2	41:BS:88:ILE:HD11	1.99	0.44
25:BA:445:C:P	42:BT:2:PRO:CB	3.06	0.44
42:BT:95:LEU:HD23	42:BT:95:LEU:HA	1.53	0.44
42:BT:47:TYR:CE2	43:BU:75:PHE:HB3	2.53	0.44
43:BU:67:GLY:HA2	43:BU:94:LEU:HA	1.98	0.44
44:BV:71:VAL:HG23	44:BV:105:VAL:CG2	2.48	0.44
44:BV:34:ASN:H	44:BV:34:ASN:ND2	2.16	0.44
44:BV:18:ARG:HE	44:BV:76:VAL:H	1.65	0.44
44:BV:98:LYS:HB3	44:BV:98:LYS:NZ	2.32	0.44
45:BW:90:GLU:HA	45:BW:93:GLU:OE2	2.17	0.44
46:BX:2:ARG:C	46:BX:4:LYS:N	2.71	0.44
46:BX:61:ILE:HD12	46:BX:61:ILE:N	2.33	0.44
26:BB:76:G:OP2	47:BY:11:GLU:O	2.36	0.44
47:BY:141:VAL:C	47:BY:143:GLY:N	2.71	0.44
47:BY:152:ALA:O	47:BY:155:LEU:CD2	2.65	0.44
34:BL:35:MET:O	34:BL:35:MET:SD	2.75	0.44
25:BA:1059:G:H2'	34:BL:74:ALA:HB2	1.99	0.44
1:AA:88:C:O2'	1:AA:89:U:P	2.76	0.44
25:BA:771:G:C2'	25:BA:772:C:O5'	2.66	0.44
11:AK:54:ASP:C	11:AK:56:LYS:H	2.21	0.44
1:AA:996:A:C2	1:AA:997:U:C6	3.06	0.44
1:AA:993:G:O6	1:AA:1046:A:C6	2.71	0.44
1:AA:1072:G:N1	1:AA:1104:G:C2	2.86	0.44
1:AA:109:A:H4'	1:AA:110:C:OP2	2.18	0.44
1:AA:1142:G:C4	1:AA:1143:G:C8	3.05	0.44
1:AA:1256:A:N1	1:AA:1278:U:H1'	2.33	0.44
1:AA:1374:A:C4	1:AA:1375:A:C8	3.06	0.44
1:AA:173:U:O2	1:AA:197:A:C2	2.52	0.44
1:AA:188:U:H6	1:AA:188:U:OP2	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:225:C:O2	1:AA:226:G:O4'	2.36	0.44
1:AA:359:U:H2'	1:AA:360:A:H8	1.82	0.44
1:AA:428:G:H5'	1:AA:430:A:H1'	2.00	0.44
1:AA:445:G:O6	1:AA:490:G:C6	2.71	0.44
1:AA:44:G:O6	1:AA:399:G:O6	2.35	0.44
1:AA:582:U:N3	1:AA:760:G:N1	2.65	0.44
1:AA:632:A:O2'	1:AA:633:G:H5'	2.18	0.44
1:AA:65:U:C5	1:AA:381:C:C4	3.06	0.44
1:AA:686:U:O2'	1:AA:687:A:OP1	2.34	0.44
1:AA:729:A:H2	1:AA:730:G:H1'	1.83	0.44
1:AA:767:A:C2'	1:AA:768:A:C5'	2.95	0.44
1:AA:774:G:C2	1:AA:775:G:C4	3.06	0.44
1:AA:782:A:C2	1:AA:801:U:C2	3.05	0.44
1:AA:801:U:C2	1:AA:802:A:C8	3.05	0.44
1:AA:807:A:C2	1:AA:808:C:C2	3.06	0.44
1:AA:832:C:C4	1:AA:855:G:O6	2.71	0.44
2:AC:34:C:H2'	2:AC:35:A:O4'	2.18	0.44
5:AE:103:THR:C	5:AE:104:ASN:HD22	2.21	0.44
5:AE:115:LEU:HD13	5:AE:145:LEU:CG	2.47	0.44
5:AE:17:PHE:CD1	5:AE:18:GLY:N	2.86	0.44
5:AE:83:MET:HB2	5:AE:234:PRO:CB	2.48	0.44
5:AE:43:ASP:O	5:AE:44:LEU:O	2.36	0.44
6:AF:24:ALA:HB1	6:AF:28:GLN:NE2	2.32	0.44
6:AF:39:ILE:HA	6:AF:94:LEU:CD1	2.48	0.44
7:AG:18:LYS:O	7:AG:19:LEU:HD23	2.18	0.44
1:AA:412:A:C2	7:AG:35:ARG:NH2	2.85	0.44
7:AG:38:TYR:CZ	7:AG:45:GLN:HG3	2.53	0.44
7:AG:76:ARG:O	7:AG:79:PHE:HB3	2.18	0.44
11:AK:26:VAL:O	11:AK:58:TYR:CD1	2.70	0.44
12:AL:27:THR:HG22	12:AL:30:GLY:H	1.83	0.44
14:AN:19:ALA:HB3	14:AN:82:VAL:HG23	1.98	0.44
14:AN:18:ARG:HB2	14:AN:33:THR:HG1	1.83	0.44
15:AO:87:GLY:HA2	15:AO:98:TYR:CB	2.39	0.44
16:AP:22:ILE:CD1	16:AP:25:ILE:HD12	2.43	0.44
16:AP:59:TYR:CE2	16:AP:60:VAL:CG2	2.94	0.44
16:AP:66:LEU:C	16:AP:70:LEU:HB2	2.38	0.44
1:AA:754:C:C4'	18:AR:72:ARG:NH2	2.65	0.44
18:AR:79:ARG:O	18:AR:80:ALA:C	2.56	0.44
19:AS:55:ARG:O	19:AS:56:ALA:C	2.56	0.44
19:AS:5:ARG:HA	19:AS:67:THR:OG1	2.18	0.44
19:AS:51:VAL:CG2	19:AS:77:ALA:HB2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:189:U:C4	20:AT:63:ARG:HB2	2.52	0.44
21:AU:36:ASN:HB3	21:AU:40:LEU:CG	2.47	0.44
21:AU:39:VAL:HA	21:AU:42:ARG:CD	2.47	0.44
22:AV:12:ASP:O	22:AV:16:LEU:CD1	2.62	0.44
22:AV:15:LEU:HD21	22:AV:38:SER:CB	2.48	0.44
22:AV:22:LEU:CD2	22:AV:25:LYS:HE2	2.47	0.44
23:AW:79:ARG:HG2	23:AW:79:ARG:H	1.42	0.44
51:B3:29:PRO:C	51:B3:30:GLU:HG3	2.37	0.44
51:B3:66:SER:CA	51:B3:69:LYS:HD2	2.35	0.44
25:BA:1263:U:O3'	52:B4:10:LYS:CD	2.65	0.44
53:B5:17:LYS:CE	53:B5:48:VAL:CG1	2.83	0.44
53:B5:45:LYS:HA	53:B5:45:LYS:CE	2.41	0.44
53:B5:45:LYS:O	53:B5:46:HIS:CB	2.65	0.44
25:BA:126:A:C5'	54:B6:18:PHE:HD1	2.28	0.44
25:BA:1047:G:C4	25:BA:1110:G:C6	3.06	0.44
25:BA:49:A:H2	25:BA:120:U:H3	1.60	0.44
25:BA:1248:G:O2'	25:BA:1249:U:O5'	2.36	0.44
25:BA:1328:G:N2	25:BA:1330:C:N3	2.66	0.44
25:BA:1338:G:O2'	25:BA:1339:G:H5'	2.18	0.44
25:BA:1369:G:N2	25:BA:1370:C:H1'	2.33	0.44
25:BA:1385:G:C6	25:BA:1386:C:C4	3.06	0.44
25:BA:1388:G:C4'	25:BA:1524:G:O2'	2.66	0.44
25:BA:1343:G:N2	25:BA:1405:U:C2	2.86	0.44
25:BA:1552:G:H4'	25:BA:1553:A:OP1	2.18	0.44
25:BA:1670:C:H6	25:BA:1670:C:O5'	2.01	0.44
25:BA:1770:G:C6	25:BA:1771:C:C4	3.06	0.44
25:BA:1794:U:O2'	25:BA:1795:C:H5'	2.17	0.44
25:BA:182:A:H2'	25:BA:183:C:H6	1.82	0.44
25:BA:1832:C:C4	25:BA:1833:U:C5	3.05	0.44
25:BA:1853:A:C2	25:BA:1854:A:N3	2.86	0.44
25:BA:1856:G:N7	25:BA:1857:G:N2	2.66	0.44
25:BA:1912:A:C8	25:BA:1913:A:C1'	3.01	0.44
25:BA:1998:G:C2'	25:BA:1999:C:H5'	2.47	0.44
25:BA:18:C:C4	25:BA:19:C:C5	3.06	0.44
25:BA:2030:A:C2'	25:BA:2031:A:O5'	2.66	0.44
25:BA:2058:A:N3	25:BA:2059:A:N7	2.66	0.44
25:BA:2097:C:C4	25:BA:2193:G:O6	2.71	0.44
25:BA:2231:C:C2	25:BA:2232:U:C6	3.06	0.44
25:BA:2407:G:C2	25:BA:2408:U:H1'	2.49	0.44
25:BA:2459:A:N6	25:BA:2493:U:O4	2.50	0.44
25:BA:2497:A:H3'	25:BA:2497:A:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2645:G:O4'	25:BA:2645:G:P	2.76	0.44
25:BA:2655:G:C2'	25:BA:2655:G:N3	2.81	0.44
25:BA:2701:C:H5'	25:BA:2701:C:H6	1.83	0.44
25:BA:270:A:H2'	25:BA:270(A):A:O4'	2.18	0.44
25:BA:273(E):U:C4	25:BA:273(F):C:H1'	2.53	0.44
25:BA:2822:G:O2'	25:BA:2824:C:OP2	2.35	0.44
25:BA:2886:G:N2	25:BA:2887:U:C2	2.86	0.44
25:BA:296:C:N3	25:BA:297:C:C5	2.86	0.44
25:BA:299:A:C2'	25:BA:319:C:O2'	2.66	0.44
25:BA:352:G:N2	25:BA:353:G:C1'	2.80	0.44
25:BA:359:A:O3'	25:BA:360:G:N7	2.51	0.44
25:BA:419:C:C4	25:BA:420:C:C5	3.06	0.44
25:BA:479:A:O2'	25:BA:480:A:OP2	2.30	0.44
25:BA:562:U:C2'	25:BA:562:U:O2	2.63	0.44
25:BA:733:G:O6	25:BA:761:A:C8	2.70	0.44
25:BA:78:A:H5'	49:B1:9:ARG:HH12	1.82	0.44
25:BA:950:G:C5	25:BA:951:C:C5	3.06	0.44
25:BA:968:G:C2	25:BA:969:U:C2	3.06	0.44
26:BB:95:U:H2'	26:BB:96:G:C8	2.52	0.44
27:BC:10:LEU:HA	27:BC:13:LYS:CG	2.47	0.44
27:BC:103:ILE:HD13	27:BC:110:PHE:HZ	1.82	0.44
3:AD:56:C:H5''	27:BC:133:PRO:O	2.18	0.44
27:BC:184:LYS:O	27:BC:185:LEU:C	2.54	0.44
25:BA:2175:C:C1'	27:BC:218:MET:HA	2.48	0.44
28:BD:146:GLU:CG	28:BD:154:LYS:HE3	2.40	0.44
28:BD:157:ARG:N	28:BD:157:ARG:HE	2.16	0.44
28:BD:226:MET:O	28:BD:227:ASN:C	2.56	0.44
28:BD:181:GLU:OE2	28:BD:270:ILE:CB	2.65	0.44
25:BA:1567:A:C2	28:BD:86:PRO:HD3	2.53	0.44
28:BD:84:TYR:CB	28:BD:91:ARG:HG3	2.44	0.44
30:BF:158:THR:HG23	30:BF:196:LEU:HB2	1.99	0.44
31:BG:117:PHE:CE2	31:BG:135:LEU:HG	2.53	0.44
31:BG:124:SER:OG	31:BG:125:PHE:N	2.49	0.44
31:BG:143:GLU:O	31:BG:144:ILE:C	2.57	0.44
25:BA:2305:A:H2'	31:BG:154:GLY:HA2	1.99	0.44
32:BH:98:LEU:HD21	32:BH:100:GLY:O	2.18	0.44
32:BH:11:VAL:N	32:BH:12:PRO:CD	2.81	0.44
32:BH:172:LYS:N	32:BH:172:LYS:CE	2.80	0.44
32:BH:11:VAL:HG21	32:BH:17:VAL:HG11	1.99	0.44
33:BK:7:GLU:CA	33:BK:14:ASP:OD1	2.65	0.44
36:BN:113:LYS:HZ2	36:BN:117:LEU:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BN:7:TYR:HB3	36:BN:18:LYS:NZ	2.33	0.44
37:BO:114:ILE:HB	37:BO:130:PHE:HA	2.00	0.44
37:BO:126:VAL:CB	37:BO:146:VAL:HG23	2.45	0.44
37:BO:47:ASP:HB2	37:BO:48:PRO:HD2	2.00	0.44
25:BA:833:U:H1'	37:BO:48:PRO:HG2	2.00	0.44
39:BQ:32:GLY:O	39:BQ:116:LEU:HG	2.18	0.44
40:BR:92:TYR:CE2	40:BR:93:LYS:CG	2.98	0.44
41:BS:108:ARG:NH1	41:BS:108:ARG:HB2	2.33	0.44
36:BN:75:SER:O	41:BS:77:PRO:CD	2.66	0.44
42:BT:18:LEU:O	42:BT:19:LYS:C	2.54	0.44
43:BU:35:LEU:O	43:BU:61:VAL:CG1	2.59	0.44
46:BX:76:CYS:CB	46:BX:100:ALA:H	2.31	0.44
46:BX:19:LYS:C	46:BX:21:LYS:H	2.21	0.44
47:BY:56:VAL:HG21	47:BY:135:GLU:CD	2.38	0.44
47:BY:155:LEU:HD23	47:BY:163:LEU:CD2	2.44	0.44
33:BK:124:GLY:O	33:BK:125:GLU:HG3	2.17	0.44
25:BA:1065:U:H2'	25:BA:1066:U:C5'	2.48	0.44
34:BL:27:LEU:HD22	34:BL:32:ALA:CB	2.48	0.44
34:BL:70:LYS:O	34:BL:71:THR:O	2.36	0.44
34:BL:88:ALA:HB2	34:BL:134:MET:HE1	1.99	0.44
1:AA:1026:G:C8	1:AA:1027:C:C6	3.06	0.44
30:BF:77:ASP:CG	30:BF:77:ASP:O	2.53	0.44
1:AA:1064:G:C1'	1:AA:1066:C:N3	2.67	0.43
1:AA:1082:G:O5'	1:AA:1082:G:H8	2.01	0.43
1:AA:1115:C:C4	1:AA:1116:C:C4	3.05	0.43
1:AA:112:G:N2	1:AA:113:G:N9	2.66	0.43
1:AA:1188:A:N3	1:AA:1188:A:H2'	2.33	0.43
1:AA:122:G:N2	1:AA:123:C:C2	2.86	0.43
1:AA:1306:A:H2'	1:AA:1307:U:C6	2.53	0.43
1:AA:1325:C:C2	1:AA:1326:C:C5	3.06	0.43
1:AA:1251:A:C2	1:AA:1354:C:H1'	2.53	0.43
1:AA:1368:G:OP2	12:AL:113:LYS:O	2.36	0.43
1:AA:1287:A:H61	1:AA:1371:G:C4'	2.31	0.43
1:AA:1437:C:O2'	1:AA:1438:G:H5'	2.18	0.43
1:AA:1522:U:H2'	1:AA:1523:G:C8	2.50	0.43
1:AA:193:C:H2'	1:AA:194:C:C6	2.52	0.43
1:AA:231:G:C6	1:AA:232:G:C6	3.06	0.43
1:AA:247:G:O6	1:AA:278:G:C6	2.71	0.43
1:AA:287:U:H2'	1:AA:288:A:C8	2.53	0.43
1:AA:370:C:C2'	1:AA:371:G:H8	2.21	0.43
1:AA:509:A:H2'	1:AA:510:A:C8	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:579:G:N3	1:AA:580:U:C6	2.85	0.43
1:AA:582:U:C2'	1:AA:583:A:O5'	2.66	0.43
1:AA:617:G:C2	1:AA:618:C:C2	3.06	0.43
1:AA:627:G:C2	1:AA:628:G:C8	3.06	0.43
1:AA:788:U:O2	1:AA:789:U:O2	2.36	0.43
1:AA:812:C:C2'	1:AA:813:U:OP2	2.66	0.43
1:AA:873:A:C4'	1:AA:874:G:OP2	2.66	0.43
1:AA:894:G:C2'	1:AA:895:G:H8	2.28	0.43
2:AC:58:A:C8	2:AC:61:C:C4	3.06	0.43
3:AD:18:G:OP1	3:AD:58:A:C2	2.71	0.43
3:AD:59:U:C2	3:AD:59:U:OP1	2.71	0.43
5:AE:108:ILE:O	5:AE:112:VAL:HG23	2.18	0.43
5:AE:69:LEU:CD2	5:AE:91:PRO:CB	2.96	0.43
6:AF:139:GLN:O	6:AF:143:GLU:CG	2.66	0.43
6:AF:188:LEU:HD13	6:AF:189:ALA:H	1.80	0.43
6:AF:87:LEU:N	6:AF:87:LEU:HD23	2.32	0.43
1:AA:403:C:HO2'	7:AG:122:ARG:HH12	1.66	0.43
7:AG:138:TYR:HD2	7:AG:139:ARG:N	2.16	0.43
7:AG:57:ARG:C	7:AG:206:PHE:HD1	2.20	0.43
7:AG:4:TYR:CE2	7:AG:8:VAL:HG22	2.53	0.43
8:AH:44:GLY:O	8:AH:58:ALA:HB1	2.18	0.43
9:AI:13:ASN:N	9:AI:13:ASN:HD22	2.16	0.43
10:AJ:85:TYR:N	10:AJ:85:TYR:CD2	2.84	0.43
11:AK:9:MET:O	11:AK:11:THR:N	2.51	0.43
11:AK:33:GLU:HA	11:AK:59:LEU:HD11	1.99	0.43
11:AK:95:VAL:O	11:AK:130:GLY:HA2	2.17	0.43
12:AL:28:VAL:CG2	12:AL:32:ASP:C	2.87	0.43
12:AL:65:VAL:HG21	12:AL:77:ILE:CG1	2.48	0.43
13:AM:30:SER:HG	13:AM:81:THR:HA	1.80	0.43
14:AN:18:ARG:CD	14:AN:34:ASP:O	2.65	0.43
14:AN:42:TRP:CZ3	14:AN:47:VAL:HG22	2.49	0.43
15:AO:56:ALA:CB	15:AO:100:ILE:HD11	2.48	0.43
15:AO:41:ARG:NH2	15:AO:57:LYS:HE3	2.25	0.43
16:AP:10:PRO:CG	16:AP:18:ALA:CB	2.79	0.43
17:AQ:22:THR:CB	17:AQ:33:VAL:CG2	2.88	0.43
19:AS:39:TYR:CE1	19:AS:41:PRO:N	2.86	0.43
20:AT:44:ALA:CB	20:AT:59:ILE:CD1	2.95	0.43
21:AU:63:GLN:OE1	21:AU:66:LEU:HD21	2.18	0.43
21:AU:65:ILE:HG12	21:AU:65:ILE:H	1.54	0.43
1:AA:1268:A:C5'	24:AX:20:LYS:HB2	2.48	0.43
24:AX:3:LYS:O	24:AX:14:TRP:CE3	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B2:4:LEU:C	50:B2:4:LEU:CD2	2.85	0.43
50:B2:6:VAL:HG11	50:B2:47:VAL:HG11	2.00	0.43
51:B3:6:HIS:HB2	51:B3:7:PRO:HD3	2.00	0.43
53:B5:11:LEU:HA	53:B5:25:LYS:HA	2.00	0.43
53:B5:50:ARG:CZ	53:B5:52:VAL:CG2	2.85	0.43
37:BO:56:SER:C	55:B7:13:ARG:CZ	2.86	0.43
25:BA:1137:G:C2	25:BA:1138:G:H1'	2.53	0.43
25:BA:1171:G:C8	25:BA:1173:G:H5''	2.52	0.43
25:BA:1235:G:C2	25:BA:1236:G:N2	2.86	0.43
25:BA:1268:A:C4	25:BA:2013:A:N6	2.86	0.43
25:BA:1298:C:C4	25:BA:1643:G:C6	3.06	0.43
25:BA:1298:C:H5'	25:BA:1302:A:N6	2.32	0.43
25:BA:1418:G:N2	25:BA:1580:A:H2	2.16	0.43
25:BA:1527:G:O6	25:BA:1541:U:C4	2.71	0.43
25:BA:1580:A:H5''	25:BA:1581:G:OP2	2.17	0.43
25:BA:1582:C:C5'	25:BA:1583:A:O5'	2.66	0.43
25:BA:1596:A:N6	25:BA:1597:A:C6	2.86	0.43
25:BA:1679:U:H5	25:BA:1680:U:C4	2.35	0.43
25:BA:1789:A:C2'	25:BA:1789:A:N3	2.78	0.43
25:BA:1860:G:H2'	25:BA:1861:G:C8	2.53	0.43
25:BA:1862:G:H2'	25:BA:1863:G:C8	2.53	0.43
25:BA:1904:G:N3	25:BA:1905:C:C6	2.85	0.43
25:BA:1935:G:O2'	25:BA:1936:A:P	2.76	0.43
25:BA:1950:G:C8	25:BA:1951:U:C5	3.05	0.43
25:BA:1975:G:O2'	25:BA:1976:U:C5'	2.66	0.43
25:BA:1977:A:N3	25:BA:1978:A:C1'	2.80	0.43
25:BA:2008:C:C2	25:BA:2009:G:C8	3.05	0.43
25:BA:2019:A:N1	25:BA:2020:A:N3	2.66	0.43
25:BA:2286:A:C5'	25:BA:2287:A:OP1	2.65	0.43
25:BA:2307:G:OP2	25:BA:2307:G:H8	2.01	0.43
25:BA:2356:C:O2'	48:BZ:20:ARG:NH2	2.50	0.43
25:BA:2392:A:OP1	55:B7:32:LEU:HD13	2.18	0.43
25:BA:411:G:C5	25:BA:2407:G:N7	2.86	0.43
25:BA:2432:A:N7	25:BA:2433:A:N7	2.66	0.43
25:BA:250:G:C2	25:BA:251:A:N7	2.86	0.43
25:BA:2579:C:O2'	29:BE:132:HIS:CE1	2.62	0.43
25:BA:2642:G:C2	25:BA:2773:C:N3	2.86	0.43
25:BA:2729:G:N7	25:BA:2730:C:C5	2.86	0.43
25:BA:2741:A:O5'	25:BA:2741:A:H8	2.01	0.43
25:BA:2766:G:C2	25:BA:2767:C:C6	3.06	0.43
25:BA:2802:G:C8	25:BA:2803:C:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2899:G:H2'	25:BA:2900:A:H8	1.82	0.43
25:BA:344:G:OP1	25:BA:345:A:OP2	2.35	0.43
25:BA:365:C:O5'	25:BA:365:C:C6	2.71	0.43
25:BA:455:C:H5'	25:BA:456:C:OP1	2.17	0.43
25:BA:500:G:C2'	25:BA:501:A:H5''	2.45	0.43
25:BA:515:A:N7	25:BA:516:C:C5	2.86	0.43
25:BA:531:C:C6	25:BA:532:A:C2	3.06	0.43
25:BA:540:G:C5	25:BA:541:C:C5	3.06	0.43
25:BA:565:C:N3	25:BA:566:U:C2	2.85	0.43
25:BA:583:G:O2'	25:BA:584:C:H5'	2.18	0.43
25:BA:602:G:C2	25:BA:656:G:C6	3.06	0.43
25:BA:617:G:C8	25:BA:618:G:C8	3.06	0.43
25:BA:69:C:O2	25:BA:73:A:O2'	2.18	0.43
25:BA:6:A:C2	25:BA:7:G:C5	3.06	0.43
25:BA:778:G:C2	25:BA:787:U:C2	3.06	0.43
25:BA:813:U:H2'	25:BA:814:C:O4'	2.18	0.43
25:BA:816:C:C2	25:BA:817:C:C5	3.06	0.43
25:BA:818:G:H3'	25:BA:1187:G:H22	1.83	0.43
25:BA:932:G:C2	25:BA:933:A:C6	3.06	0.43
26:BB:15:A:C5'	26:BB:16:G:O5'	2.62	0.43
26:BB:52:A:OP1	26:BB:52:A:H4'	2.18	0.43
26:BB:13:A:N7	26:BB:70:C:H4'	2.33	0.43
27:BC:108:MET:C	27:BC:110:PHE:N	2.71	0.43
27:BC:129:ARG:HB2	27:BC:130:ILE:HD12	2.00	0.43
27:BC:171:ILE:HD13	27:BC:192:PHE:CZ	2.53	0.43
25:BA:2176:A:H5'	27:BC:221:SER:HB2	2.00	0.43
28:BD:111:LEU:N	28:BD:111:LEU:CD2	2.81	0.43
28:BD:131:LEU:HD12	28:BD:132:PRO:HD2	2.00	0.43
28:BD:5:LYS:CD	28:BD:29:PRO:HB3	2.45	0.43
28:BD:41:GLY:O	28:BD:60:ARG:NH1	2.50	0.43
28:BD:98:VAL:CG1	28:BD:99:ASP:N	2.69	0.43
29:BE:104:VAL:HG13	29:BE:105:THR:H	1.83	0.43
29:BE:202:LYS:HB2	29:BE:204:ALA:HB3	2.00	0.43
30:BF:122:LYS:HD3	30:BF:122:LYS:C	2.38	0.43
25:BA:321:G:OP2	30:BF:135:LYS:HE3	2.18	0.43
30:BF:139:PHE:HB2	30:BF:166:ALA:CB	2.47	0.43
30:BF:34:TRP:C	30:BF:38:ARG:HD2	2.37	0.43
31:BG:44:GLY:H	31:BG:88:ILE:CG2	2.29	0.43
31:BG:49:ASP:C	31:BG:53:LEU:HD13	2.38	0.43
31:BG:93:THR:O	31:BG:94:LEU:C	2.56	0.43
32:BH:90:LYS:HE2	32:BH:163:TYR:CD1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BK:2:LYS:CE	33:BK:39:ALA:CB	2.96	0.43
33:BK:2:LYS:CE	33:BK:39:ALA:HB2	2.48	0.43
35:BM:18:ALA:H	35:BM:21:LYS:HE3	1.76	0.43
36:BN:47:ILE:HD12	36:BN:53:LYS:N	2.23	0.43
36:BN:89:ASN:OD1	36:BN:89:ASN:N	2.50	0.43
37:BO:47:ASP:HB3	37:BO:48:PRO:CD	2.48	0.43
38:BP:34:LEU:CD1	38:BP:67:ARG:HH21	2.30	0.43
39:BQ:32:GLY:HA2	39:BQ:116:LEU:CG	2.47	0.43
39:BQ:63:ARG:HH22	39:BQ:77:ARG:HG2	1.79	0.43
40:BR:9:ARG:O	40:BR:12:PHE:CG	2.71	0.43
42:BT:101:ARG:HB2	42:BT:101:ARG:HH11	1.81	0.43
25:BA:1151:G:O2'	42:BT:77:SER:HA	2.17	0.43
43:BU:27:ALA:HB2	43:BU:35:LEU:CD1	2.48	0.43
47:BY:10:ARG:H	47:BY:14:LYS:HZ3	1.61	0.43
47:BY:27:VAL:HG13	47:BY:34:ASN:ND2	2.32	0.43
48:BZ:12:ASN:CA	48:BZ:14:ARG:NE	2.81	0.43
48:BZ:47:PRO:CG	48:BZ:53:MET:SD	3.06	0.43
26:BB:12:C:C4'	48:BZ:74:ARG:NE	2.77	0.43
25:BA:1091:G:N2	25:BA:1101:U:C2	2.86	0.43
25:BA:1092:C:H6	25:BA:1092:C:C3'	2.23	0.43
34:BL:106:GLU:HA	34:BL:109:LYS:CG	2.48	0.43
34:BL:12:LEU:HB3	34:BL:13:PRO:CD	2.36	0.43
34:BL:37:PHE:HE2	34:BL:65:PHE:C	2.21	0.43
1:AA:1029:G:C4	1:AA:1032(A):G:N1	2.86	0.43
25:BA:1607:C:C2'	25:BA:1607:C:O2	2.65	0.43
1:AA:1054:C:H6	1:AA:1054:C:H3'	1.84	0.43
1:AA:1158:C:C3'	1:AA:1158:C:O2	2.66	0.43
1:AA:1252:A:C4	1:AA:1253:G:C8	3.06	0.43
1:AA:1324:A:H2'	1:AA:1325:C:C5'	2.48	0.43
1:AA:131:C:O2'	1:AA:132:C:H5'	2.18	0.43
1:AA:1341:U:H5'	2:AC:32:C:OP1	2.18	0.43
1:AA:1394:A:H62	1:AA:1501:C:C5'	2.31	0.43
1:AA:1413:A:C2	1:AA:1414:U:C6	3.06	0.43
1:AA:1517:G:N3	1:AA:1517:G:H2'	2.33	0.43
1:AA:185:A:H1'	23:AW:81:LYS:HZ2	1.83	0.43
1:AA:521:G:H4'	15:AO:73:GLU:OE2	2.18	0.43
1:AA:577:G:N2	1:AA:578:C:N1	2.65	0.43
1:AA:672:U:O2	1:AA:673:G:C8	2.71	0.43
1:AA:673:G:O3'	9:AI:87:ARG:NH2	2.52	0.43
1:AA:718:G:C8	1:AA:719:C:H5	2.36	0.43
1:AA:799:G:O6	1:AA:800:G:C2	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:800:G:C2'	1:AA:801:U:OP2	2.66	0.43
1:AA:877:C:H5''	11:AK:88:LYS:CG	2.46	0.43
1:AA:916:G:N2	1:AA:917:G:C4	2.86	0.43
1:AA:916:G:N2	1:AA:917:G:C5	2.86	0.43
1:AA:921:U:OP1	1:AA:1082:G:H5''	2.18	0.43
1:AA:922:G:C4'	8:AH:19:MET:O	2.66	0.43
1:AA:979:C:O5'	1:AA:980:C:H5	2.01	0.43
2:AC:66:C:H2'	2:AC:67:C:C6	2.53	0.43
2:AC:7:G:HO2'	2:AC:8:U:P	2.40	0.43
3:AD:76:A:N3	25:BA:2432:A:O5'	2.51	0.43
5:AE:161:ALA:HA	5:AE:183:PRO:HD2	2.00	0.43
5:AE:25:ASN:HD22	5:AE:27:LYS:H	1.62	0.43
6:AF:26:LYS:O	6:AF:28:GLN:N	2.51	0.43
7:AG:78:LEU:HD21	7:AG:96:LEU:CD2	2.47	0.43
8:AH:26:PHE:C	8:AH:27:ARG:HG3	2.36	0.43
8:AH:9:LYS:HB2	8:AH:33:VAL:CB	2.49	0.43
8:AH:78:HIS:HB2	11:AK:104:ARG:CD	2.35	0.43
11:AK:17:THR:H	11:AK:17:THR:HG1	1.60	0.43
11:AK:14:ARG:O	11:AK:18:ARG:NE	2.51	0.43
11:AK:20:TYR:HD1	11:AK:65:TYR:CZ	2.36	0.43
11:AK:63:LEU:HB2	11:AK:65:TYR:OH	2.18	0.43
11:AK:6:ILE:O	11:AK:10:LEU:HG	2.19	0.43
11:AK:70:GLN:HE21	11:AK:71:GLY:N	2.07	0.43
12:AL:93:ARG:C	12:AL:95:LYS:N	2.69	0.43
13:AM:13:HIS:C	13:AM:14:LYS:HD3	2.39	0.43
14:AN:43:SER:CA	14:AN:47:VAL:HG21	2.48	0.43
18:AR:39:LEU:HD13	18:AR:56:LEU:HD13	1.99	0.43
19:AS:56:ALA:O	19:AS:57:ARG:C	2.54	0.43
20:AT:34:LYS:HD2	20:AT:35:VAL:N	2.33	0.43
20:AT:17:LYS:CE	20:AT:47:PRO:C	2.86	0.43
20:AT:66:SER:HB3	20:AT:69:LYS:NZ	2.32	0.43
1:AA:720:C:C4'	21:AU:50:ILE:HG22	2.48	0.43
22:AV:69:HIS:HB2	22:AV:74:PHE:HZ	1.76	0.43
22:AV:69:HIS:HB3	22:AV:73:GLU:OE1	2.18	0.43
49:B1:52:ILE:O	49:B1:56:LEU:CD2	2.58	0.43
50:B2:40:THR:HB	50:B2:43:ILE:CG1	2.43	0.43
52:B4:15:ARG:O	52:B4:16:ARG:C	2.55	0.43
54:B6:24:THR:HG23	54:B6:27:GLY:CA	2.48	0.43
25:BA:107:C:H5'	25:BA:293:U:C4'	2.48	0.43
25:BA:1107:G:C8	25:BA:1107:G:C3'	3.01	0.43
25:BA:1137:G:O2'	35:BM:102:ALA:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1158:C:O4'	50:B2:32:GLN:NE2	2.51	0.43
25:BA:115:C:H2'	25:BA:116:C:O5'	2.18	0.43
25:BA:819:A:C6	25:BA:1189:A:C4	3.06	0.43
25:BA:1212:G:O2'	25:BA:1213:A:H8	2.01	0.43
25:BA:1272:A:O2'	25:BA:1273:U:P	2.75	0.43
25:BA:1287:A:OP1	39:BQ:105:ARG:CB	2.64	0.43
25:BA:1322:A:H2'	25:BA:1323:U:H5'	2.00	0.43
25:BA:1351:C:C4	25:BA:1381:G:N1	2.86	0.43
25:BA:1367:A:C8	25:BA:1367:A:H3'	2.53	0.43
25:BA:1372:U:O5'	25:BA:1372:U:C6	2.63	0.43
25:BA:1380:G:C6	25:BA:1381:G:N7	2.86	0.43
25:BA:1407:C:OP2	25:BA:1407:C:H6	2.01	0.43
25:BA:1459:G:C6	25:BA:1461:G:C5	3.06	0.43
25:BA:1543:A:H3'	25:BA:1544:C:C5'	2.47	0.43
25:BA:1696:G:H2'	25:BA:1697:G:C8	2.54	0.43
25:BA:164:U:H2'	25:BA:171:G:O5'	2.17	0.43
25:BA:1804:C:C5'	28:BD:250:TRP:HH2	2.30	0.43
25:BA:1835:G:C2'	25:BA:1836:C:H5'	2.48	0.43
25:BA:1912:A:N1	25:BA:1919:A:N9	2.66	0.43
25:BA:1945:G:N1	25:BA:1946:U:C4	2.87	0.43
25:BA:1975:G:C5	25:BA:1976:U:C5	3.06	0.43
25:BA:2057:A:C8	25:BA:2058:A:N7	2.87	0.43
25:BA:2286:A:H62	53:B5:29:ASN:C	2.19	0.43
25:BA:2344:U:O2	25:BA:2344:U:C2'	2.66	0.43
25:BA:2345:G:O2'	25:BA:2346:A:OP2	2.22	0.43
25:BA:2336:A:O2'	25:BA:2385:C:O4'	2.36	0.43
25:BA:960:A:C5'	25:BA:2457:U:H4'	2.46	0.43
25:BA:2459:A:OP2	25:BA:2460:U:C4	2.70	0.43
25:BA:2484:G:O2'	25:BA:2485:G:H5'	2.18	0.43
25:BA:23:G:C2'	25:BA:24:G:H5'	2.48	0.43
25:BA:2510:C:N4	25:BA:2511:U:C4	2.86	0.43
25:BA:2687:U:H2'	25:BA:2688:U:H5'	2.00	0.43
25:BA:2723:C:OP2	29:BE:109:LYS:NZ	2.47	0.43
25:BA:2788:C:H4'	25:BA:2810:A:C4'	2.48	0.43
25:BA:288:C:H3'	25:BA:289:A:H4'	2.00	0.43
25:BA:347:A:N3	25:BA:347:A:C2'	2.74	0.43
25:BA:507:A:H4'	25:BA:509:C:C6	2.53	0.43
25:BA:510:C:C6	25:BA:512:G:N2	2.86	0.43
25:BA:612:G:O2'	25:BA:616:A:C5	2.68	0.43
25:BA:685:A:C4	25:BA:774:A:N1	2.86	0.43
25:BA:715:G:C2	25:BA:716:A:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:756:C:H2'	25:BA:757:U:H5'	2.00	0.43
25:BA:728:G:C4	25:BA:763:G:OP2	2.72	0.43
25:BA:777:A:H2'	25:BA:778:G:H5'	1.98	0.43
25:BA:823:G:N1	25:BA:835:A:C4	2.86	0.43
25:BA:945:A:C2	25:BA:2448:A:N3	2.86	0.43
25:BA:960:A:C8	25:BA:962:G:N7	2.86	0.43
25:BA:997:G:H5''	42:BT:92:ARG:CD	2.48	0.43
25:BA:997:G:OP2	25:BA:997:G:H8	2.01	0.43
26:BB:96:G:C2	26:BB:97:G:C8	3.06	0.43
27:BC:10:LEU:O	27:BC:13:LYS:CB	2.66	0.43
27:BC:190:ARG:CG	27:BC:190:ARG:NH1	2.58	0.43
27:BC:76:ALA:HA	27:BC:114:VAL:O	2.18	0.43
28:BD:246:PRO:C	28:BD:247:ALA:O	2.56	0.43
28:BD:260:ARG:O	28:BD:262:ARG:N	2.51	0.43
29:BE:49:LEU:CD2	29:BE:76:ARG:O	2.63	0.43
30:BF:133:ASN:O	30:BF:133:ASN:ND2	2.51	0.43
25:BA:1204:A:C4	30:BF:188:ARG:HA	2.46	0.43
31:BG:12:TYR:HA	31:BG:15:VAL:HG22	2.00	0.43
31:BG:19:LEU:HD23	31:BG:171:ALA:HB1	1.99	0.43
31:BG:27:ASN:O	31:BG:29:TRP:CG	2.71	0.43
32:BH:140:LYS:CA	32:BH:143:GLN:HG3	2.37	0.43
32:BH:56:SER:O	32:BH:57:ASP:HB3	2.18	0.43
35:BM:107:LEU:HD21	35:BM:113:GLY:CA	2.48	0.43
35:BM:137:LYS:O	35:BM:138:LEU:C	2.57	0.43
35:BM:28:THR:HA	35:BM:106:MET:SD	2.58	0.43
35:BM:35:ARG:CZ	35:BM:48:MET:HE1	2.48	0.43
35:BM:60:ILE:HG22	35:BM:61:ARG:N	2.33	0.43
35:BM:23:LEU:CD1	35:BM:62:VAL:HG13	2.46	0.43
36:BN:16:ALA:O	36:BN:18:LYS:N	2.50	0.43
36:BN:76:ALA:CB	36:BN:78:ARG:NH2	2.74	0.43
37:BO:127:ALA:C	37:BO:128:HIS:CG	2.89	0.43
38:BP:65:PHE:N	38:BP:105:GLU:CG	2.82	0.43
25:BA:956:G:P	38:BP:87:LYS:HD2	2.58	0.43
38:BP:42:ILE:C	38:BP:94:VAL:CG2	2.87	0.43
39:BQ:73:VAL:HG23	39:BQ:74:LYS:N	2.28	0.43
39:BQ:9:LYS:O	39:BQ:10:LEU:CD2	2.53	0.43
40:BR:97:ARG:CG	40:BR:97:ARG:HH21	2.31	0.43
41:BS:49:VAL:O	41:BS:68:TYR:HB2	2.18	0.43
41:BS:50:ILE:HD13	41:BS:50:ILE:HG21	1.77	0.43
41:BS:82:LEU:C	41:BS:84:GLN:N	2.71	0.43
41:BS:25:GLY:CA	41:BS:94:ALA:HB2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:99:LEU:C	41:BS:102:ILE:HG23	2.38	0.43
42:BT:30:LYS:HD2	42:BT:30:LYS:N	2.33	0.43
42:BT:33:ARG:O	42:BT:36:ARG:CG	2.66	0.43
43:BU:11:GLN:CB	43:BU:21:ARG:HB3	2.48	0.43
43:BU:23:GLU:CG	43:BU:25:LEU:HG	2.45	0.43
43:BU:79:VAL:HG12	43:BU:81:TYR:CG	2.53	0.43
43:BU:67:GLY:HA2	43:BU:94:LEU:CA	2.48	0.43
44:BV:13:SER:O	44:BV:16:LYS:NZ	2.51	0.43
44:BV:35:ILE:HG23	44:BV:36:LEU:H	1.83	0.43
25:BA:493:G:O3'	44:BV:8:ARG:HB2	2.19	0.43
25:BA:1335:U:OP1	45:BW:65:ARG:CD	2.66	0.43
46:BX:10:GLY:C	46:BX:11:ASP:CG	2.77	0.43
47:BY:150:LEU:HA	47:BY:150:LEU:HD23	1.68	0.43
48:BZ:29:GLN:O	48:BZ:31:VAL:HG22	2.17	0.43
48:BZ:40:GLN:NE2	48:BZ:42:GLY:O	2.51	0.43
33:BK:101:LEU:CG	33:BK:102:SER:N	2.79	0.43
33:BK:114:LEU:HB3	33:BK:115:ALA:H	1.56	0.43
33:BK:74:ASN:O	33:BK:141:LYS:NZ	2.39	0.43
33:BK:93:THR:HG21	33:BK:95:LYS:HB3	2.00	0.43
33:BK:95:LYS:O	33:BK:99:GLU:OE2	2.36	0.43
25:BA:1071:G:C4	25:BA:1089:G:C4	3.06	0.43
34:BL:21:PRO:HG2	34:BL:22:PRO:HD2	1.99	0.43
7:AG:159:ARG:HH11	7:AG:159:ARG:HG2	1.84	0.43
1:AA:1012:U:C4	1:AA:1013:G:C6	3.06	0.43
3:AD:26:A:H2'	3:AD:27:U:O5'	2.18	0.43
15:AO:103:GLY:H	15:AO:108:ALA:C	2.21	0.43
4:A1:16:A:C2'	4:A1:17:U:O5'	2.66	0.43
1:AA:1105:A:H2'	1:AA:1106:G:C8	2.41	0.43
1:AA:1164:G:O6	1:AA:1165:C:C4	2.70	0.43
1:AA:1230:C:C4'	16:AP:125:ARG:NH2	2.81	0.43
1:AA:1246:C:H2'	1:AA:1247:U:O5'	2.18	0.43
1:AA:1279:A:O2'	1:AA:1282:C:C4	2.56	0.43
1:AA:1286:A:C2	24:AX:18:TYR:CZ	3.06	0.43
1:AA:1369:C:H2'	1:AA:1370:G:C1'	2.49	0.43
1:AA:1399:C:O2	1:AA:1401:G:N9	2.51	0.43
1:AA:1413:A:H2'	1:AA:1413:A:N3	2.31	0.43
1:AA:1475:G:H2'	1:AA:1476:G:O5'	2.18	0.43
1:AA:1515:C:O2	1:AA:1516:G:H8	1.99	0.43
1:AA:1533:C:O2'	1:AA:1534:A:OP2	2.36	0.43
1:AA:175:C:C2	1:AA:176:C:C5	3.06	0.43
1:AA:247:G:C6	1:AA:278:G:C6	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:337:C:N4	1:AA:338:A:N6	2.65	0.43
1:AA:468:A:P	19:AS:75:ARG:NH2	2.82	0.43
1:AA:602:A:C5	1:AA:603:U:C4	3.06	0.43
1:AA:605:U:H2'	1:AA:606:G:O4'	2.18	0.43
1:AA:658:G:C4	1:AA:659:U:C6	3.06	0.43
1:AA:677:U:H6	1:AA:677:U:O5'	2.01	0.43
1:AA:709:G:O2'	1:AA:710:G:C5'	2.67	0.43
1:AA:715:A:C2'	1:AA:716:A:O4'	2.60	0.43
1:AA:792:A:C4'	1:AA:793:U:OP1	2.47	0.43
1:AA:861:G:H2'	1:AA:862:C:C6	2.54	0.43
1:AA:866:C:C5	1:AA:867:G:H1'	2.54	0.43
1:AA:914:A:C2	1:AA:915:A:C4	3.07	0.43
2:AC:40:C:C2'	2:AC:41:C:C5'	2.91	0.43
2:AC:41:C:H2'	2:AC:42:G:O4'	2.18	0.43
2:AC:62:C:O2'	2:AC:63:G:O5'	2.36	0.43
2:AC:69:C:N3	2:AC:70:G:N7	2.66	0.43
5:AE:136:VAL:N	5:AE:139:LYS:HZ1	2.14	0.43
5:AE:91:PRO:HG2	5:AE:155:LEU:H	1.79	0.43
5:AE:193:ASP:OD2	5:AE:196:LEU:HD11	2.18	0.43
5:AE:233:SER:CB	5:AE:234:PRO:CD	2.93	0.43
5:AE:55:PHE:CE2	5:AE:218:ALA:CA	2.88	0.43
5:AE:74:LYS:CD	5:AE:76:GLN:HB2	2.47	0.43
6:AF:139:GLN:C	6:AF:143:GLU:OE1	2.57	0.43
1:AA:620:C:N1	7:AG:135:LEU:HD13	2.32	0.43
7:AG:148:VAL:HG11	7:AG:158:ILE:HG21	1.99	0.43
8:AH:112:LEU:HA	8:AH:112:LEU:HD22	1.76	0.43
8:AH:139:LEU:O	8:AH:141:GLN:O	2.37	0.43
8:AH:57:LYS:O	8:AH:58:ALA:C	2.57	0.43
8:AH:73:ASN:C	8:AH:73:ASN:HD22	2.22	0.43
9:AI:10:LEU:O	9:AI:11:ASN:O	2.37	0.43
9:AI:74:ASP:OD1	9:AI:74:ASP:N	2.43	0.43
9:AI:76:ALA:CB	9:AI:80:ARG:HE	2.30	0.43
10:AJ:5:ARG:NH1	10:AJ:5:ARG:CG	2.80	0.43
11:AK:29:SER:N	11:AK:32:LYS:HZ3	2.16	0.43
11:AK:63:LEU:CD1	11:AK:65:TYR:HE1	2.31	0.43
11:AK:6:ILE:HD11	11:AK:10:LEU:HD21	2.00	0.43
13:AM:20:ALA:HB1	13:AM:37:PRO:CB	2.47	0.43
13:AM:75:ILE:CG2	13:AM:76:ASN:N	2.81	0.43
14:AN:106:LYS:CG	14:AN:107:SER:N	2.81	0.43
14:AN:20:TYR:O	14:AN:30:VAL:HG13	2.19	0.43
14:AN:43:SER:OG	14:AN:47:VAL:CG1	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:70:ILE:HA	15:AO:100:ILE:CG1	2.49	0.43
1:AA:551:U:C4'	15:AO:119:LYS:HE2	2.47	0.43
15:AO:60:LEU:CD2	15:AO:64:TYR:HB3	2.48	0.43
16:AP:22:ILE:HD12	16:AP:25:ILE:CD1	2.40	0.43
16:AP:3:ARG:NH2	31:BG:113:ARG:CD	2.76	0.43
16:AP:37:THR:HG1	16:AP:56:LEU:HA	1.78	0.43
16:AP:78:ILE:HA	16:AP:81:LEU:HD11	2.00	0.43
18:AR:70:LEU:HD21	18:AR:77:ARG:NH1	2.19	0.43
19:AS:53:VAL:CG1	19:AS:79:VAL:HG22	2.30	0.43
20:AT:38:ARG:CG	20:AT:39:SER:H	2.30	0.43
20:AT:84:LEU:O	20:AT:85:VAL:C	2.55	0.43
21:AU:27:GLY:O	21:AU:28:GLU:C	2.56	0.43
21:AU:55:ARG:HA	21:AU:55:ARG:HD2	1.74	0.43
50:B2:31:LEU:HD13	50:B2:32:GLN:OE1	2.18	0.43
52:B4:7:PRO:O	52:B4:8:LYS:CG	2.65	0.43
55:B7:34:TRP:O	55:B7:36:LYS:N	2.51	0.43
25:BA:1006:C:N3	25:BA:1137:G:N2	2.66	0.43
25:BA:1143:A:C2'	25:BA:1144:G:C8	3.00	0.43
25:BA:1173:G:N2	25:BA:1175:U:P	2.80	0.43
25:BA:1222:C:C2	25:BA:1223:C:C5	3.07	0.43
25:BA:1242:A:N3	25:BA:1242:A:C2'	2.77	0.43
25:BA:1255:U:O2	25:BA:1255:U:C2'	2.66	0.43
25:BA:1264:G:P	52:B4:10:LYS:NZ	2.91	0.43
25:BA:1266:G:C2'	25:BA:1267:U:OP2	2.65	0.43
25:BA:1304:C:OP1	25:BA:1642:G:O2'	2.34	0.43
25:BA:1366:A:N1	25:BA:1367:A:N3	2.66	0.43
25:BA:1502:C:N3	25:BA:1503:U:C5	2.87	0.43
25:BA:1508:A:H5''	25:BA:1510:A:N7	2.30	0.43
25:BA:1525:G:H2'	25:BA:1525:G:N3	2.34	0.43
25:BA:1650:G:C2	25:BA:1651:G:N9	2.86	0.43
25:BA:1682:G:C5	25:BA:1757:U:C1'	3.01	0.43
25:BA:1772:G:H21	25:BA:1774:C:H5''	1.83	0.43
25:BA:1785:A:H8	25:BA:1785:A:OP2	2.00	0.43
25:BA:1806:C:H2'	25:BA:1807:G:H5'	2.00	0.43
25:BA:1820:U:C2	28:BD:202:LYS:CG	2.95	0.43
25:BA:1853:A:H1'	25:BA:2233:U:O2'	2.18	0.43
25:BA:1856:G:H2'	25:BA:1857:G:H5'	2.00	0.43
25:BA:1858:G:O2'	25:BA:1859:A:C5'	2.66	0.43
25:BA:574:C:N4	25:BA:2054:A:H5'	2.29	0.43
25:BA:792:G:N2	25:BA:2072:G:O2'	2.51	0.43
25:BA:209:C:H2'	25:BA:210:C:C5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2134:A:N1	25:BA:2135:A:N1	2.66	0.43
25:BA:2199:A:C2	25:BA:2205:C:H1'	2.53	0.43
25:BA:2252:G:C4	25:BA:2253:G:N7	2.86	0.43
25:BA:2255:G:H1'	48:BZ:7:LEU:CD2	2.48	0.43
25:BA:917:A:N6	25:BA:2268:A:N1	2.66	0.43
25:BA:2316:C:C2	25:BA:2317:C:C6	3.06	0.43
25:BA:2371:G:O2'	25:BA:2372:G:O4'	2.33	0.43
25:BA:2483:C:C4	25:BA:2484:G:C8	3.07	0.43
25:BA:2538:C:O2'	25:BA:2539:C:H5'	2.19	0.43
25:BA:2718:G:C2'	25:BA:2719:G:C8	2.99	0.43
25:BA:2691:C:N4	25:BA:2719:G:N2	2.65	0.43
25:BA:2766:G:N3	25:BA:2767:C:C5	2.86	0.43
25:BA:2818:G:C2	25:BA:2829:C:C4	3.06	0.43
25:BA:2849:U:H3'	25:BA:2849:U:H6	1.83	0.43
25:BA:2884:U:C2'	25:BA:2885:C:H5'	2.49	0.43
25:BA:385:C:HO2'	25:BA:388:G:H21	1.64	0.43
25:BA:371:A:H3'	25:BA:423:A:C8	2.54	0.43
25:BA:618:G:C5	25:BA:618(A):C:C4	3.06	0.43
25:BA:65:C:H2'	25:BA:66:C:H6	1.83	0.43
25:BA:836:G:C8	25:BA:837:C:C5	3.06	0.43
25:BA:848:G:H2'	25:BA:849:A:C8	2.54	0.43
25:BA:852:G:C5	25:BA:853:G:N7	2.87	0.43
25:BA:861:A:C5	25:BA:862:G:C8	3.06	0.43
25:BA:867:C:H3'	25:BA:867:C:OP2	2.17	0.43
25:BA:957:A:H8	25:BA:957:A:H3'	1.82	0.43
25:BA:997:G:C8	25:BA:997:G:OP2	2.72	0.43
26:BB:97:G:N3	26:BB:97:G:H2'	2.32	0.43
27:BC:23:ASP:O	27:BC:24:GLU:C	2.54	0.43
27:BC:7:TYR:CE2	27:BC:11:LEU:CB	3.00	0.43
28:BD:157:ARG:O	28:BD:158:ALA:O	2.37	0.43
28:BD:142:VAL:CG1	28:BD:192:THR:O	2.66	0.43
28:BD:221:VAL:O	28:BD:222:ARG:CG	2.55	0.43
29:BE:106:GLY:O	29:BE:164:ARG:CG	2.62	0.43
29:BE:128:SER:O	29:BE:130:GLY:N	2.51	0.43
29:BE:32:PRO:O	29:BE:33:VAL:C	2.56	0.43
29:BE:51:PHE:CD1	29:BE:76:ARG:CG	3.01	0.43
29:BE:77:ILE:O	29:BE:78:LEU:HD13	2.18	0.43
29:BE:30:PRO:CD	29:BE:90:THR:O	2.62	0.43
30:BF:139:PHE:HE2	30:BF:167:ALA:CA	2.31	0.43
30:BF:32:LEU:O	30:BF:35:GLU:N	2.51	0.43
31:BG:163:ALA:O	31:BG:169:ALA:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:91:ARG:HG2	31:BG:91:ARG:NH2	2.32	0.43
33:BK:22:LYS:O	33:BK:23:PRO:O	2.36	0.43
35:BM:5:VAL:O	35:BM:6:PRO:O	2.36	0.43
36:BN:103:ALA:O	36:BN:105:GLU:N	2.51	0.43
37:BO:113:LYS:NZ	37:BO:115:LEU:HD12	2.31	0.43
38:BP:78:PRO:HB3	38:BP:81:VAL:HG23	1.99	0.43
39:BQ:25:ALA:O	39:BQ:29:LEU:HD23	2.18	0.43
39:BQ:63:ARG:O	39:BQ:64:ARG:C	2.57	0.43
39:BQ:71:GLN:O	39:BQ:72:ASP:HB2	2.18	0.43
39:BQ:85:PRO:C	39:BQ:87:TYR:N	2.69	0.43
40:BR:32:LEU:C	40:BR:34:HIS:H	2.20	0.43
26:BB:50:G:C3'	40:BR:61:ASN:HA	2.49	0.43
40:BR:92:TYR:HB3	40:BR:98:VAL:HG11	1.99	0.43
41:BS:110:ILE:O	41:BS:113:LYS:N	2.51	0.43
41:BS:31:SER:OG	41:BS:49:VAL:HG13	2.19	0.43
41:BS:33:LYS:HG2	41:BS:47:GLY:CA	2.48	0.43
41:BS:59:THR:N	41:BS:61:PHE:CZ	2.82	0.43
41:BS:64:ARG:HA	41:BS:64:ARG:HH11	0.66	0.43
42:BT:59:ARG:HA	42:BT:62:ILE:HD12	2.00	0.43
43:BU:69:LYS:CG	43:BU:70:ILE:N	2.81	0.43
44:BV:70:TYR:CZ	44:BV:72:LYS:HG3	2.53	0.43
45:BW:18:TYR:O	45:BW:21:PHE:N	2.51	0.43
45:BW:26:TYR:N	45:BW:26:TYR:CD1	2.86	0.43
45:BW:31:HIS:O	45:BW:33:LYS:N	2.51	0.43
45:BW:5:TYR:HB3	49:B1:24:LYS:HZ3	1.83	0.43
45:BW:8:ILE:C	45:BW:9:LEU:CG	2.86	0.43
46:BX:12:THR:HG21	46:BX:70:SER:O	2.18	0.43
47:BY:127:LYS:HD3	47:BY:165:VAL:H	1.82	0.43
47:BY:139:VAL:CG1	47:BY:140:ASP:N	2.79	0.43
47:BY:2:GLU:O	47:BY:60:GLU:HA	2.19	0.43
34:BL:10:LEU:H	34:BL:10:LEU:HD23	1.79	0.43
1:AA:841:U:C2'	1:AA:842:C:OP1	2.66	0.43
1:AA:85:U:O2'	1:AA:86:U:H5'	2.18	0.43
1:AA:217:C:H2'	1:AA:218:C:C6	2.54	0.43
1:AA:1022:G:C6	1:AA:1023:G:C6	3.06	0.43
25:BA:438:G:C2'	25:BA:439:G:O5'	2.67	0.43
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.35	0.43
1:AA:1171:G:O2'	1:AA:1172:C:H6	1.83	0.43
1:AA:124:G:C5	1:AA:125:U:C5	3.07	0.43
1:AA:1273:G:C8	1:AA:1274:G:C8	3.06	0.43
1:AA:1317:C:OP1	1:AA:1317:C:C5	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1346:A:N6	1:AA:1375:A:OP2	2.38	0.43
1:AA:1376:U:C2	1:AA:1377:A:N7	2.86	0.43
1:AA:1387:G:C2	1:AA:1388:C:C4	3.07	0.43
1:AA:1436:U:C2	1:AA:1437:C:C6	3.06	0.43
1:AA:1439:C:O2	1:AA:1439:C:H2'	2.18	0.43
1:AA:1510:U:H2'	1:AA:1511:G:H8	1.81	0.43
1:AA:173:U:C1'	1:AA:197:A:H2	2.10	0.43
1:AA:246:A:C1'	1:AA:282:A:N6	2.82	0.43
1:AA:293:G:C2	1:AA:294:U:C5	3.06	0.43
1:AA:109:A:N3	1:AA:327:A:C2	2.85	0.43
1:AA:358:U:H2'	1:AA:359:U:C6	2.53	0.43
1:AA:397:A:C6	1:AA:548:G:C5	3.07	0.43
1:AA:506:G:C6	1:AA:507:C:N4	2.87	0.43
1:AA:500:G:C5	1:AA:546:G:N2	2.87	0.43
1:AA:557:G:H2'	1:AA:558:G:N9	2.34	0.43
1:AA:581:G:H5''	18:AR:61:GLY:HA3	1.99	0.43
1:AA:68:G:C4'	1:AA:171:A:C1'	2.97	0.43
1:AA:687:A:C8	1:AA:701:C:N4	2.86	0.43
1:AA:703:G:O2'	1:AA:704:A:OP2	2.29	0.43
1:AA:769:G:C6	1:AA:811:C:O2	2.72	0.43
1:AA:766:A:C8	1:AA:814:A:C6	3.07	0.43
1:AA:893:C:OP2	1:AA:893:C:C6	2.71	0.43
1:AA:896:C:N3	1:AA:897:C:C5	2.87	0.43
1:AA:942:G:N3	1:AA:943:U:C6	2.87	0.43
1:AA:948:C:O2'	1:AA:949:A:H5'	2.17	0.43
1:AA:993:G:C6	1:AA:1046:A:C6	3.06	0.43
3:AD:35:A:H3'	3:AD:35:A:C8	2.53	0.43
3:AD:71:G:OP1	25:BA:1893:C:H5'	2.18	0.43
5:AE:125:PRO:C	5:AE:127:ILE:HG13	2.39	0.43
5:AE:50:GLU:HG3	5:AE:200:ILE:HB	1.99	0.43
5:AE:84:GLU:OE1	5:AE:233:SER:CB	2.67	0.43
5:AE:69:LEU:O	5:AE:162:ILE:CB	2.66	0.43
5:AE:74:LYS:HD3	5:AE:74:LYS:C	2.39	0.43
6:AF:23:TYR:CE2	13:AM:11:PHE:CE2	3.07	0.43
6:AF:8:ILE:O	6:AF:9:GLY:C	2.55	0.43
7:AG:42:GLN:O	7:AG:43:HIS:ND1	2.52	0.43
9:AI:16:GLN:CG	9:AI:17:SER:N	2.78	0.43
10:AJ:17:VAL:O	10:AJ:18:TYR:CD1	2.70	0.43
10:AJ:74:GLU:CG	10:AJ:75:VAL:N	2.80	0.43
10:AJ:94:ARG:CZ	10:AJ:98:SER:OG	2.67	0.43
11:AK:103:VAL:HG11	11:AK:109:ILE:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:33:GLU:O	11:AK:34:GLU:C	2.57	0.43
11:AK:48:TYR:C	11:AK:48:TYR:CD1	2.91	0.43
14:AN:32:ILE:CD1	14:AN:72:ALA:HB2	2.49	0.43
15:AO:119:LYS:O	15:AO:120:TYR:CB	2.59	0.43
1:AA:1216:G:P	17:AQ:3:ARG:HH22	2.41	0.43
17:AQ:24:CYS:CB	17:AQ:40:CYS:N	2.74	0.43
1:AA:376:G:H5''	19:AS:5:ARG:CG	2.49	0.43
20:AT:104:LYS:HD3	20:AT:105:ALA:H	1.75	0.43
20:AT:104:LYS:CD	20:AT:105:ALA:N	2.67	0.43
21:AU:18:ARG:CG	21:AU:18:ARG:HH11	2.32	0.43
21:AU:58:LEU:HD22	21:AU:62:GLU:HG3	2.00	0.43
22:AV:5:LEU:CB	22:AV:9:VAL:HG13	2.48	0.43
23:AW:79:ARG:O	23:AW:80:ARG:C	2.56	0.43
51:B3:61:ARG:O	51:B3:65:ASP:OD1	2.35	0.43
44:BV:19:LEU:HD22	52:B4:25:LEU:HB2	1.99	0.43
39:BQ:99:LYS:HB2	52:B4:43:HIS:CD2	2.53	0.43
53:B5:20:ASN:OD1	53:B5:43:CYS:SG	2.74	0.43
54:B6:8:ASN:HD22	54:B6:9:ARG:N	2.16	0.43
55:B7:21:LYS:HB2	55:B7:21:LYS:HZ2	1.79	0.43
25:BA:1029:A:H2'	25:BA:1030:G:C5'	2.49	0.43
25:BA:1048:A:H2	25:BA:1113:U:O4'	2.00	0.43
25:BA:1128:A:H2	25:BA:1129:A:C6	2.33	0.43
25:BA:1168:G:H2'	25:BA:1169:G:O4'	2.18	0.43
25:BA:1236:G:H2'	25:BA:1237:A:O5'	2.18	0.43
25:BA:126:A:N7	25:BA:127:A:N1	2.66	0.43
25:BA:1293:C:H2'	25:BA:1294:U:O5'	2.18	0.43
25:BA:1423:G:H2'	25:BA:1423:G:N3	2.33	0.43
25:BA:1505:C:O2	25:BA:1505:C:C2'	2.65	0.43
25:BA:1520:U:C6	25:BA:1520:U:OP2	2.72	0.43
25:BA:1530:G:H3'	25:BA:1531:C:C5	2.54	0.43
25:BA:1466:G:O2'	25:BA:1546:C:H4'	2.18	0.43
25:BA:1581:G:H2'	25:BA:1582:C:C5'	2.48	0.43
25:BA:1620:G:HO2'	25:BA:1621:U:H5'	1.79	0.43
25:BA:1631:A:N1	25:BA:1632:A:C2	2.86	0.43
25:BA:1712:C:C2	25:BA:1716:U:C5	3.06	0.43
25:BA:1741:C:H2'	25:BA:1741:C:O2	2.17	0.43
25:BA:1778:U:C6	25:BA:1779:U:C4	3.06	0.43
25:BA:1813:G:N2	28:BD:52:ARG:CZ	2.80	0.43
25:BA:1853:A:H2'	25:BA:1854:A:O4'	2.18	0.43
25:BA:1948:G:N1	25:BA:1949:G:C5	2.86	0.43
25:BA:1981:A:C5'	25:BA:1982:C:P	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1987:G:C2	25:BA:1988:C:C4	3.05	0.43
25:BA:1995:U:C5'	25:BA:1996:C:C5'	2.88	0.43
25:BA:200:U:H3'	25:BA:200:U:C6	2.52	0.43
3:AD:56:C:C4	25:BA:2169:A:C4	3.05	0.43
25:BA:2215:G:N3	25:BA:2216:G:C8	2.87	0.43
25:BA:2286:A:H62	53:B5:32:ASN:H	1.65	0.43
25:BA:2346:A:H2'	25:BA:2347:C:OP1	2.18	0.43
25:BA:2350:C:N4	25:BA:2382:G:H1	2.14	0.43
25:BA:234:C:H2'	25:BA:235:U:H5'	2.01	0.43
25:BA:2413:G:C2	25:BA:2414:G:H1'	2.53	0.43
25:BA:247:G:HO2'	25:BA:386:G:H1	1.62	0.43
25:BA:2468:G:C6	25:BA:2481:G:C6	3.07	0.43
25:BA:2485:G:H2'	25:BA:2486:G:O4'	2.19	0.43
25:BA:2525:G:N1	25:BA:2526:G:N7	2.67	0.43
25:BA:2543:G:C5	25:BA:2544:G:C5	3.07	0.43
25:BA:2578:G:N2	25:BA:2579:C:C6	2.84	0.43
25:BA:2609:U:H5'	25:BA:2610:C:OP2	2.18	0.43
25:BA:2638:G:C8	25:BA:2775:A:C6	3.06	0.43
25:BA:270(J):G:N1	25:BA:270(K):C:C2	2.87	0.43
25:BA:2723:C:C4'	39:BQ:2:ARG:O	2.66	0.43
25:BA:2783:G:O6	25:BA:2784:C:N4	2.52	0.43
25:BA:2829:C:C2	25:BA:2830:G:C8	3.06	0.43
25:BA:2868:A:C2	25:BA:2869:G:C4	3.06	0.43
25:BA:2873:A:H2'	25:BA:2874:C:O5'	2.17	0.43
25:BA:2886:G:C2	25:BA:2887:U:C6	3.05	0.43
25:BA:299:A:C2	25:BA:322:A:C8	3.06	0.43
25:BA:327:G:N1	25:BA:328:U:C6	2.85	0.43
25:BA:351:G:C2'	25:BA:352:G:OP2	2.66	0.43
25:BA:354:G:H3'	25:BA:354:G:OP2	2.19	0.43
25:BA:430:G:H5''	25:BA:431:U:OP2	2.19	0.43
25:BA:494:G:N1	25:BA:495:G:N7	2.66	0.43
25:BA:507:A:C5'	25:BA:509:C:O4'	2.66	0.43
25:BA:50:U:H6	25:BA:50:U:C3'	2.24	0.43
25:BA:513:A:C6	25:BA:514:A:N7	2.86	0.43
25:BA:602:G:H21	25:BA:655:A:C3'	2.31	0.43
25:BA:610:C:N3	25:BA:618(A):C:N3	2.66	0.43
25:BA:621:A:H8	25:BA:621:A:C3'	2.13	0.43
25:BA:77:C:C6	25:BA:77:C:OP2	2.71	0.43
25:BA:832:G:OP2	37:BO:35:HIS:CD2	2.72	0.43
25:BA:834:C:H2'	25:BA:835:A:O5'	2.17	0.43
25:BA:855:G:N2	48:BZ:27:GLU:H	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:928:G:N7	25:BA:929:G:C4	2.87	0.43
25:BA:986:C:H3'	25:BA:986:C:H6	1.78	0.43
26:BB:74:U:C5	26:BB:75:G:C8	3.06	0.43
27:BC:23:ASP:CG	27:BC:186:ALA:HB2	2.37	0.43
27:BC:209:LEU:HD21	27:BC:212:VAL:HB	1.99	0.43
27:BC:23:ASP:OD1	27:BC:183:GLU:HA	2.17	0.43
27:BC:47:LEU:CG	27:BC:49:ILE:HG12	2.46	0.43
28:BD:136:ILE:HB	28:BD:168:ARG:CZ	2.45	0.43
28:BD:244:ARG:HD3	28:BD:252:TRP:HD1	1.83	0.43
28:BD:270:ILE:C	28:BD:271:ILE:HG13	2.38	0.43
29:BE:171:GLU:OE1	29:BE:172:VAL:N	2.51	0.43
29:BE:36:ARG:O	29:BE:44:TYR:HA	2.19	0.43
29:BE:4:ILE:HA	29:BE:197:ILE:HG23	2.00	0.43
30:BF:9:ILE:HA	30:BF:10:PRO:HD3	1.54	0.43
30:BF:114:VAL:CG2	30:BF:186:ILE:HD13	2.48	0.43
30:BF:7:TYR:O	30:BF:18:ARG:CG	2.66	0.43
30:BF:80:ALA:N	30:BF:83:PHE:HE2	2.16	0.43
31:BG:100:TRP:C	31:BG:102:PHE:N	2.69	0.43
31:BG:151:ALA:O	31:BG:152:LEU:CG	2.59	0.43
31:BG:18:GLU:OE1	31:BG:19:LEU:N	2.51	0.43
31:BG:27:ASN:O	31:BG:27:ASN:OD1	2.36	0.43
31:BG:35:GLU:CD	31:BG:36:LYS:N	2.71	0.43
32:BH:149:ARG:CG	32:BH:162:ILE:HG12	2.47	0.43
35:BM:39:ARG:CB	35:BM:48:MET:HE2	2.48	0.43
36:BN:43:VAL:CG1	36:BN:54:GLU:C	2.87	0.43
36:BN:64:ARG:CA	36:BN:81:ASP:OD2	2.50	0.43
37:BO:122:PRO:N	37:BO:137:LYS:HB2	2.34	0.43
37:BO:124:LYS:CB	37:BO:138:LEU:HG	2.48	0.43
37:BO:15:ARG:NE	37:BO:16:ARG:H	2.15	0.43
37:BO:8:PRO:O	37:BO:9:ASN:O	2.36	0.43
38:BP:42:ILE:CD1	38:BP:46:GLN:NE2	2.81	0.43
38:BP:58:PHE:CE2	38:BP:64:ILE:HG23	2.54	0.43
38:BP:6:ARG:CG	38:BP:70:PRO:HB3	2.49	0.43
25:BA:1999:C:OP1	39:BQ:2:ARG:CB	2.63	0.43
40:BR:34:HIS:O	40:BR:35:ILE:O	2.36	0.43
41:BS:30:VAL:HG23	41:BS:89:VAL:C	2.27	0.43
41:BS:31:SER:C	41:BS:32:TYR:CG	2.81	0.43
41:BS:55:ASN:OD1	41:BS:55:ASN:N	2.52	0.43
41:BS:1:MET:O	41:BS:5:ALA:HB2	2.18	0.43
42:BT:25:TRP:HE3	42:BT:25:TRP:C	2.22	0.43
42:BT:49:HIS:CD2	42:BT:52:ARG:CZ	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BU:14:VAL:HG11	43:BU:19:LYS:HE2	2.00	0.43
43:BU:27:ALA:O	43:BU:28:GLU:C	2.56	0.43
25:BA:1224:G:C4	43:BU:87:HIS:NE2	2.87	0.43
44:BV:5:ALA:CB	44:BV:105:VAL:HG12	2.48	0.43
44:BV:28:SER:HB2	44:BV:70:TYR:HA	1.99	0.43
44:BV:33:ARG:HE	44:BV:33:ARG:CA	2.31	0.43
45:BW:63:LYS:HA	45:BW:72:LYS:HG2	2.00	0.43
46:BX:20:TYR:O	46:BX:22:GLY:N	2.43	0.43
46:BX:46:LYS:HZ2	46:BX:46:LYS:HB3	1.80	0.43
46:BX:59:GLY:O	46:BX:61:ILE:CD1	2.65	0.43
47:BY:107:THR:HB	47:BY:142:SER:OG	2.18	0.43
47:BY:30:ASN:HB2	47:BY:90:VAL:CG2	2.46	0.43
25:BA:2354:G:H1'	48:BZ:35:ASN:HA	1.99	0.43
48:BZ:45:PHE:HD2	48:BZ:77:ARG:HB2	1.83	0.43
48:BZ:4:LYS:O	48:BZ:5:LYS:HB3	2.18	0.43
47:BY:157:LEU:HD23	47:BY:158:PRO:N	2.32	0.43
34:BL:13:PRO:HD2	34:BL:19:PRO:HG3	2.00	0.43
34:BL:7:VAL:HB	34:BL:56:GLU:OE1	2.18	0.43
6:AF:157:ILE:O	6:AF:158:GLY:C	2.57	0.43
25:BA:771:G:C4	25:BA:772:C:C5	3.06	0.43
25:BA:1630:G:N7	25:BA:1630(A):C:H5	2.15	0.43
27:BC:102:LYS:HE3	27:BC:102:LYS:HB3	1.85	0.43
1:AA:1046:A:N3	1:AA:1047:G:C8	2.86	0.43
1:AA:1057:G:C5'	6:AF:155:GLY:HA3	2.49	0.43
1:AA:1057:G:H2'	1:AA:1058:G:C8	2.51	0.43
1:AA:1065:U:H2'	1:AA:1065:U:O2	2.17	0.43
1:AA:1102:A:H2'	1:AA:1103:C:O5'	2.18	0.43
1:AA:111:G:H8	1:AA:111:G:O5'	2.02	0.43
1:AA:1134:G:OP2	1:AA:1135:U:C5	2.62	0.43
1:AA:1176:A:C6	1:AA:1177:G:C6	3.06	0.43
1:AA:1308:U:H5''	16:AP:92:HIS:CE1	2.53	0.43
1:AA:1433:A:C2	1:AA:1434:A:N3	2.86	0.43
1:AA:1465:C:C2'	1:AA:1466:C:O5'	2.66	0.43
1:AA:1499:A:H2'	1:AA:1500:A:C5'	2.47	0.43
1:AA:13:U:H4'	1:AA:14:U:OP2	2.14	0.43
1:AA:1534:A:C8	1:AA:1534:A:OP1	2.71	0.43
1:AA:164:U:C2'	1:AA:165:C:C6	3.02	0.43
1:AA:237:C:OP1	20:AT:40:LYS:CE	2.60	0.43
1:AA:298:A:C3'	1:AA:299:G:C8	2.93	0.43
1:AA:363:A:N1	1:AA:364:A:C2	2.87	0.43
1:AA:44:G:C6	1:AA:399:G:N1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:520:A:N7	1:AA:521:G:N9	2.67	0.43
1:AA:52:G:C2'	1:AA:53:A:O5'	2.67	0.43
1:AA:595:G:H8	1:AA:641:U:O4	2.02	0.43
1:AA:690:G:N3	1:AA:691:G:O4'	2.52	0.43
1:AA:874:G:N2	1:AA:875:C:C1'	2.81	0.43
1:AA:878:G:O4'	11:AK:3:THR:CG2	2.66	0.43
1:AA:893:C:N3	1:AA:894:G:N7	2.66	0.43
1:AA:770:C:O2'	1:AA:899:C:N3	2.51	0.43
1:AA:926:G:C2	1:AA:1505:G:C4	3.07	0.43
1:AA:971:G:H2'	1:AA:1365:G:C4'	2.44	0.43
2:AC:36:U:H6	2:AC:36:U:H5''	1.83	0.43
2:AC:50:U:H6	2:AC:50:U:O5'	2.01	0.43
5:AE:115:LEU:HD12	5:AE:118:LEU:CD1	2.44	0.43
6:AF:88:ARG:HE	6:AF:101:LEU:HB3	1.83	0.43
6:AF:150:LYS:HZ2	6:AF:152:ILE:HG23	1.84	0.43
6:AF:17:ASP:HB3	6:AF:18:TRP:HE3	1.82	0.43
6:AF:201:TYR:CD1	6:AF:201:TYR:N	2.86	0.43
7:AG:4:TYR:HE2	7:AG:8:VAL:HG22	1.82	0.43
7:AG:88:VAL:HG12	7:AG:88:VAL:O	2.19	0.43
8:AH:111:GLU:H	8:AH:111:GLU:HG3	1.66	0.43
8:AH:55:VAL:O	8:AH:56:GLN:C	2.55	0.43
9:AI:75:LEU:CD2	9:AI:79:LEU:HD21	2.48	0.43
11:AK:22:GLU:CA	11:AK:63:LEU:HD13	2.48	0.43
12:AL:27:THR:HG21	12:AL:62:TYR:CD1	2.53	0.43
12:AL:80:GLY:O	12:AL:81:ILE:C	2.57	0.43
14:AN:63:LEU:HD23	14:AN:66:LEU:HD12	2.01	0.43
18:AR:33:THR:CG2	18:AR:87:ILE:CD1	2.81	0.43
18:AR:36:ILE:HG13	18:AR:59:MET:CE	2.47	0.43
18:AR:53:HIS:O	18:AR:56:LEU:N	2.52	0.43
18:AR:55:GLY:O	18:AR:56:LEU:C	2.55	0.43
19:AS:6:LEU:HD23	19:AS:17:TYR:CE2	2.53	0.43
20:AT:5:VAL:CG2	20:AT:60:ILE:HA	2.28	0.43
21:AU:47:THR:N	21:AU:49:LYS:HZ2	2.16	0.43
22:AV:58:VAL:HG23	22:AV:58:VAL:O	2.19	0.43
23:AW:65:LYS:O	23:AW:66:ALA:C	2.56	0.43
51:B3:58:ARG:O	51:B3:62:ARG:CG	2.67	0.43
25:BA:2815:C:C4'	52:B4:42:PRO:HG3	2.48	0.43
53:B5:17:LYS:HD3	53:B5:49:HIS:O	2.18	0.43
53:B5:51:GLU:OE1	53:B5:52:VAL:CA	2.66	0.43
54:B6:45:ALA:O	54:B6:46:VAL:C	2.57	0.43
56:B8:7:VAL:HB	56:B8:36:GLN:CD	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1044:G:C5'	25:BA:1047:G:H1'	2.46	0.43
25:BA:1111:A:O3'	25:BA:1112:G:C4'	2.66	0.43
25:BA:1117:G:H2'	25:BA:1118:C:C6	2.54	0.43
25:BA:1124:C:N4	25:BA:1125:G:C6	2.87	0.43
25:BA:1179:C:HO2'	25:BA:1180:C:P	2.30	0.43
25:BA:974:G:C4	25:BA:1186:G:C6	3.07	0.43
25:BA:1269:A:C2	25:BA:1270:C:N3	2.87	0.43
25:BA:1359:A:C2	25:BA:1360:A:N9	2.87	0.43
25:BA:1519:G:OP1	25:BA:1519:G:C4'	2.64	0.43
25:BA:1789:A:O4'	28:BD:222:ARG:CZ	2.65	0.43
25:BA:179:G:C4	25:BA:180:G:N7	2.86	0.43
25:BA:179:G:N7	25:BA:180:G:N7	2.66	0.43
25:BA:1826:G:C5	25:BA:1827:C:C5	3.06	0.43
25:BA:1663:C:C4	25:BA:1992:G:C8	3.06	0.43
25:BA:1997:G:N1	25:BA:1998:G:C6	2.86	0.43
25:BA:2020:A:N6	25:BA:2022:U:O2	2.52	0.43
25:BA:2054:A:O5'	25:BA:2054:A:H8	2.02	0.43
25:BA:2078:C:C2	25:BA:2079:U:C5	3.06	0.43
25:BA:2132:U:H2'	25:BA:2134:A:C5	2.53	0.43
25:BA:2210:G:C5	28:BD:70:TRP:CD1	3.06	0.43
25:BA:2213:U:C5'	25:BA:2213:U:C2	2.99	0.43
25:BA:2278:A:C6	25:BA:2279:G:N7	2.86	0.43
25:BA:2301:C:C2	25:BA:2302:G:C8	3.07	0.43
25:BA:2351:G:N3	25:BA:2351:G:H2'	2.33	0.43
25:BA:2409:G:C2	25:BA:2410:G:C1'	3.00	0.43
25:BA:2415:G:C6	25:BA:2416:C:C5	3.07	0.43
25:BA:2246:G:H1'	25:BA:2426:A:C2	2.53	0.43
25:BA:2077:A:C5	25:BA:2435:A:N7	2.86	0.43
25:BA:2491:U:O3'	25:BA:2570:G:OP1	2.36	0.43
25:BA:2496:C:OP1	38:BP:82:ARG:HG2	2.19	0.43
25:BA:24:G:C4	25:BA:25:U:C5	3.06	0.43
25:BA:2545:G:H2'	25:BA:2565:A:C2	2.54	0.43
25:BA:2631:G:N2	29:BE:61:ARG:HH12	2.17	0.43
25:BA:2639:A:C2	25:BA:2640:G:H1'	2.53	0.43
25:BA:2652:C:O2'	25:BA:2653:U:H5'	2.18	0.43
25:BA:2694:G:C8	25:BA:2694:G:O5'	2.71	0.43
25:BA:270(J):G:N2	25:BA:270(K):C:H1'	2.33	0.43
25:BA:527:C:N4	25:BA:2779:U:H3'	2.34	0.43
25:BA:2793:G:H8	25:BA:2793:G:O5'	2.02	0.43
25:BA:32:C:OP1	25:BA:1238:G:H5'	2.19	0.43
25:BA:342:G:C2'	25:BA:343:C:O4'	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:556:G:C2'	25:BA:557:U:O5'	2.66	0.43
25:BA:565:C:C3'	25:BA:1253:A:H2	2.32	0.43
25:BA:567:A:C2	25:BA:568:U:C2	3.07	0.43
25:BA:603:A:H2'	25:BA:604:G:H8	1.83	0.43
25:BA:641:C:C2'	25:BA:642:G:C5'	2.93	0.43
25:BA:685:A:H1'	25:BA:688:U:C4	2.53	0.43
25:BA:792:G:C5	25:BA:2440:C:C1'	3.02	0.43
25:BA:684:G:C2	25:BA:794:G:C2	3.07	0.43
25:BA:917:A:H3'	25:BA:918:A:H5''	2.00	0.43
25:BA:989:G:HO2'	25:BA:990:A:C5'	2.30	0.43
26:BB:73:A:HO2'	26:BB:74:U:C5'	2.30	0.43
27:BC:182:PRO:HG2	27:BC:183:GLU:H	1.84	0.43
27:BC:75:LEU:HG	27:BC:77:ILE:CG1	2.49	0.43
28:BD:144:ALA:O	28:BD:153:ALA:HB1	2.19	0.43
28:BD:172:TYR:CD2	28:BD:184:LYS:HB2	2.54	0.43
28:BD:208:LYS:HZ3	28:BD:211:ARG:NE	2.16	0.43
25:BA:1804:C:O3'	28:BD:250:TRP:CZ2	2.71	0.43
28:BD:64:ILE:HG23	28:BD:64:ILE:O	2.18	0.43
29:BE:100:GLU:C	29:BE:172:VAL:HG13	2.33	0.43
29:BE:197:ILE:HB	29:BE:199:ARG:NE	2.33	0.43
30:BF:103:LYS:HA	30:BF:106:ARG:CD	2.49	0.43
30:BF:103:LYS:HA	30:BF:106:ARG:CZ	2.44	0.43
30:BF:196:LEU:O	30:BF:199:TRP:HB2	2.18	0.43
31:BG:62:LEU:HD22	31:BG:144:ILE:HG13	2.01	0.43
31:BG:1:MET:O	31:BG:2:PRO:C	2.55	0.43
31:BG:74:LYS:HG2	31:BG:75:LYS:CD	2.49	0.43
32:BH:26:VAL:HG21	32:BH:75:ALA:HB3	2.01	0.43
32:BH:73:ALA:HA	32:BH:76:VAL:CG1	2.49	0.43
35:BM:103:VAL:CG2	35:BM:104:LYS:H	2.29	0.43
35:BM:134:ARG:N	35:BM:135:PRO:CD	2.82	0.43
35:BM:3:THR:HB	35:BM:4:TYR:H	1.54	0.43
25:BA:1022:G:C5'	35:BM:68:GLU:OE1	2.67	0.43
36:BN:107:ARG:O	36:BN:109:LYS:CG	2.58	0.43
36:BN:23:ARG:H	36:BN:40:VAL:HG12	1.82	0.43
36:BN:34:THR:O	36:BN:37:ASP:OD1	2.35	0.43
36:BN:53:LYS:HB2	36:BN:53:LYS:HE3	1.69	0.43
36:BN:88:ASN:HB2	36:BN:89:ASN:OD1	2.18	0.43
37:BO:65:ARG:CZ	37:BO:68:GLN:NE2	2.81	0.43
37:BO:81:GLN:CA	37:BO:86:LYS:HZ2	2.32	0.43
38:BP:8:LYS:HG3	38:BP:8:LYS:O	2.19	0.43
40:BR:73:LEU:CA	40:BR:76:LYS:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:26:ASP:OD2	41:BS:100:TYR:CE2	2.71	0.43
41:BS:58:ASN:O	41:BS:60:THR:O	2.36	0.43
41:BS:67:SER:HA	41:BS:75:ILE:HG23	2.00	0.43
36:BN:73:ASP:HB2	41:BS:82:LEU:HD21	2.00	0.43
42:BT:8:VAL:HG11	42:BT:12:ARG:HH21	1.84	0.43
42:BT:31:SER:HB2	42:BT:34:LYS:CB	2.49	0.43
25:BA:1334:G:O3'	45:BW:65:ARG:NH2	2.51	0.43
46:BX:12:THR:C	46:BX:73:ARG:CZ	2.87	0.43
46:BX:74:PRO:HD2	46:BX:76:CYS:O	2.19	0.43
47:BY:65:GLN:O	47:BY:67:LEU:N	2.51	0.43
33:BK:58:LEU:HA	33:BK:61:ARG:CG	2.45	0.43
33:BK:78:THR:CA	33:BK:79:ILE:HD12	2.49	0.43
25:BA:1093:G:N2	25:BA:1098:A:C6	2.85	0.43
25:BA:1093:G:C2	25:BA:1098:A:N6	2.86	0.43
34:BL:37:PHE:HB3	34:BL:57:ILE:HD12	2.00	0.43
7:AG:159:ARG:HG3	7:AG:160:GLN:N	2.33	0.43
26:BB:87:G:C2	26:BB:90:C:C2	3.06	0.43
34:BL:49:GLY:O	34:BL:50:ASP:CG	2.57	0.43
1:AA:1113:C:C5	1:AA:1113:C:OP2	2.71	0.43
1:AA:1229:A:OP1	16:AP:116:THR:CG2	2.66	0.43
1:AA:1267:C:N4	1:AA:1268:A:C2	2.83	0.43
1:AA:1150:U:H5'	1:AA:1280:A:N1	2.33	0.43
1:AA:131:C:O2'	1:AA:262:A:H1'	2.18	0.43
1:AA:1346:A:C8	1:AA:1348:U:N3	2.87	0.43
1:AA:1349:A:OP2	12:AL:118:LYS:CD	2.56	0.43
1:AA:1386:G:HO2'	1:AA:1387:G:C5'	2.32	0.43
1:AA:1479:C:C2	1:AA:1480:G:C8	3.06	0.43
1:AA:925:G:N3	1:AA:1502:A:H1'	2.34	0.43
1:AA:156:G:C5	1:AA:166:G:C6	3.06	0.43
1:AA:129(A):G:C2	1:AA:191(A):G:C8	3.07	0.43
1:AA:225:C:N3	1:AA:226:G:C8	2.87	0.43
1:AA:264:U:C3'	1:AA:264:U:O2	2.66	0.43
1:AA:286:G:O2'	1:AA:287:U:H5'	2.18	0.43
1:AA:316:G:N3	1:AA:317:G:C8	2.87	0.43
1:AA:425:G:N2	1:AA:426:G:C1'	2.82	0.43
1:AA:586:C:O2'	1:AA:587:G:H5'	2.18	0.43
1:AA:5:U:C5	7:AG:86:LYS:CE	3.01	0.43
1:AA:609:A:C2	1:AA:610:G:C4	3.07	0.43
1:AA:685:G:H2'	1:AA:686:U:C6	2.53	0.43
1:AA:861:G:HO2'	1:AA:874:G:HO2'	1.64	0.43
1:AA:893:C:C2	1:AA:894:G:C8	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:916:G:C2	1:AA:917:G:N7	2.86	0.43
1:AA:949:A:O2'	1:AA:971:G:N2	2.49	0.43
1:AA:958:A:C2'	1:AA:959:A:H5'	2.47	0.43
5:AE:80:ILE:HG13	5:AE:208:ILE:CD1	2.48	0.43
5:AE:7:VAL:HG23	5:AE:8:LYS:HG3	2.00	0.43
5:AE:78:GLN:HE22	5:AE:96:ARG:HH22	1.65	0.43
6:AF:84:ILE:CD1	6:AF:101:LEU:HD22	2.49	0.43
6:AF:116:VAL:C	6:AF:119:ARG:HB3	2.33	0.43
6:AF:150:LYS:HE2	6:AF:167:TRP:CE3	2.54	0.43
6:AF:28:GLN:NE2	6:AF:29:TYR:HB2	2.32	0.43
7:AG:127:THR:O	7:AG:146:ILE:HG23	2.18	0.43
8:AH:102:ALA:CB	8:AH:106:PRO:CB	2.96	0.43
8:AH:144:THR:HG22	8:AH:145:LYS:N	2.33	0.43
9:AI:24:GLU:OE2	9:AI:24:GLU:C	2.56	0.43
10:AJ:146:GLU:C	10:AJ:148:ASN:N	2.68	0.43
10:AJ:27:ILE:HG12	10:AJ:43:PHE:CE1	2.54	0.43
10:AJ:30:ILE:O	10:AJ:31:MET:O	2.37	0.43
10:AJ:5:ARG:NH1	10:AJ:5:ARG:HB3	2.33	0.43
10:AJ:75:VAL:CB	10:AJ:145:ALA:HB1	2.49	0.43
10:AJ:95:ARG:C	10:AJ:97:GLN:N	2.71	0.43
11:AK:64:LYS:CE	11:AK:79:VAL:HG11	2.49	0.43
12:AL:111:ARG:HD2	17:AQ:61:TRP:NE1	2.33	0.43
1:AA:1231:G:OP1	12:AL:126:SER:HB3	2.18	0.43
12:AL:97:LYS:HZ2	12:AL:102:LEU:CD1	2.31	0.43
14:AN:104:GLN:NE2	14:AN:106:LYS:HB2	2.19	0.43
14:AN:124:LYS:HD3	14:AN:125:PHE:HE1	1.81	0.43
15:AO:28:LYS:C	15:AO:30:ALA:H	2.22	0.43
15:AO:28:LYS:CD	15:AO:33:ARG:NH1	2.78	0.43
16:AP:33:ALA:HA	16:AP:59:TYR:CE2	2.53	0.43
16:AP:37:THR:HG23	16:AP:38:GLY:N	2.33	0.43
17:AQ:22:THR:HG22	17:AQ:33:VAL:HB	2.01	0.43
6:AF:18:TRP:HH2	17:AQ:57:ARG:HB2	1.82	0.43
19:AS:4:ILE:HG12	19:AS:66:PRO:CA	2.48	0.43
19:AS:52:ASP:CG	19:AS:55:ARG:HB2	2.39	0.43
21:AU:39:VAL:O	21:AU:40:LEU:C	2.54	0.43
21:AU:41:LYS:HA	21:AU:44:LEU:HD23	1.99	0.43
49:B1:53:ALA:CA	49:B1:56:LEU:HD22	2.49	0.43
50:B2:28:LEU:HD23	50:B2:28:LEU:H	1.83	0.43
50:B2:37:LEU:HG	50:B2:38:GLU:C	2.38	0.43
50:B2:55:ARG:CA	50:B2:55:ARG:CZ	2.96	0.43
51:B3:32:TYR:N	51:B3:32:TYR:CD1	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B3:66:SER:CA	51:B3:69:LYS:HG3	2.47	0.43
52:B4:15:ARG:CG	52:B4:16:ARG:N	2.56	0.43
39:BQ:99:LYS:CG	52:B4:43:HIS:NE2	2.74	0.43
52:B4:51:TYR:HD1	52:B4:54:GLY:N	2.11	0.43
25:BA:179:G:OP1	54:B6:32:LYS:NZ	2.51	0.43
55:B7:25:MET:HB3	55:B7:25:MET:HE2	1.66	0.43
25:BA:1044:G:N2	25:BA:1111:A:O4'	2.52	0.43
25:BA:1144:G:H2'	25:BA:1145:C:C5	2.51	0.43
25:BA:1177:A:C2	25:BA:1178:C:C2	3.06	0.43
25:BA:1317:A:H2'	25:BA:1318:C:O4'	2.19	0.43
25:BA:1472:A:H1'	25:BA:1473:G:N7	2.34	0.43
25:BA:1660:C:C4	25:BA:2001:A:N6	2.87	0.43
25:BA:1704:G:C2'	25:BA:1705:G:O5'	2.66	0.43
25:BA:1707:G:C8	25:BA:1756:G:C4	3.07	0.43
25:BA:1775:U:O4	25:BA:1776:G:C8	2.72	0.43
25:BA:1812:A:H2'	25:BA:1813:G:C8	2.53	0.43
25:BA:1819:A:C1'	25:BA:1821:A:C2	2.89	0.43
25:BA:1856:G:O2'	25:BA:1857:G:H5'	2.18	0.43
25:BA:1908:C:H42	25:BA:1923:U:H3	1.63	0.43
25:BA:1944:U:H1'	25:BA:1955:U:C4'	2.48	0.43
25:BA:195:A:H4'	25:BA:251:A:C4'	2.49	0.43
25:BA:2093:G:O3'	33:BK:25:TYR:HB3	2.18	0.43
25:BA:2094:G:H2'	25:BA:2095:C:H6	1.83	0.43
25:BA:2101:G:C5	25:BA:2102:U:C4	3.07	0.43
25:BA:213:A:C2	25:BA:214:G:N3	2.86	0.43
25:BA:46:C:C5	25:BA:215:G:OP2	2.71	0.43
25:BA:2206:C:C2'	25:BA:2207:C:H5'	2.47	0.43
25:BA:2287:A:N1	25:BA:2346:A:N6	2.66	0.43
25:BA:2306:C:OP1	31:BG:136:ARG:CZ	2.67	0.43
25:BA:231:C:N3	25:BA:232:G:C2	2.87	0.43
25:BA:2373:G:C2	25:BA:2374:C:C4	3.07	0.43
25:BA:2404:C:C6	25:BA:2414:G:N2	2.87	0.43
25:BA:792:G:C6	25:BA:2440:C:C1'	3.01	0.43
25:BA:2071:A:H2	25:BA:2441:C:N3	2.16	0.43
25:BA:2454:G:C5	25:BA:2455:G:C8	3.07	0.43
25:BA:2447:G:N7	25:BA:2500:U:C2'	2.81	0.43
25:BA:253:C:C2'	25:BA:254:G:C5'	2.90	0.43
25:BA:2555:U:H2'	25:BA:2556:C:O5'	2.19	0.43
25:BA:2507:C:N1	25:BA:2583:G:N2	2.66	0.43
25:BA:2590:A:N1	25:BA:2591:C:C4	2.87	0.43
25:BA:2654:A:O2'	25:BA:2656:U:C5	2.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2731:G:H22	25:BA:2732:G:N2	2.15	0.43
25:BA:2757:A:H2'	25:BA:2758:A:C5'	2.48	0.43
25:BA:2781:A:O3'	25:BA:2782:G:H4'	2.19	0.43
25:BA:2784:C:N3	25:BA:2785:C:C5	2.86	0.43
25:BA:2809:A:O3'	25:BA:2810:A:H3'	2.18	0.43
25:BA:2881:C:C2	25:BA:2882:A:N7	2.86	0.43
25:BA:332:A:O2'	25:BA:333:G:O5'	2.37	0.43
25:BA:279:C:N3	25:BA:360:G:O6	2.51	0.43
25:BA:452:G:H2'	25:BA:457:A:C6	2.53	0.43
25:BA:457:A:N3	25:BA:459:U:O4	2.51	0.43
25:BA:525:U:O2'	25:BA:526:A:H8	2.02	0.43
25:BA:531:C:C5'	25:BA:532:A:C2	3.01	0.43
25:BA:544:C:C4	25:BA:550:G:N1	2.87	0.43
25:BA:556:G:C8	25:BA:556:G:O5'	2.65	0.43
25:BA:569:U:C1'	25:BA:947:G:O4'	2.67	0.43
25:BA:580:C:H2'	25:BA:581:C:C5	2.51	0.43
25:BA:582:G:H2'	25:BA:583:G:C8	2.53	0.43
25:BA:626:U:H2'	25:BA:626:U:O2	2.19	0.43
25:BA:669:G:C4'	25:BA:670:A:OP2	2.67	0.43
25:BA:679:C:H2'	25:BA:680:G:C8	2.53	0.43
25:BA:785:G:C2	25:BA:786:C:C4	3.06	0.43
25:BA:870:A:H5'	25:BA:870:A:C8	2.54	0.43
25:BA:911:A:C8	25:BA:2264:C:C1'	2.65	0.43
25:BA:943:U:H6	25:BA:944:G:N7	2.17	0.43
25:BA:948:G:C1'	25:BA:984:A:C2	3.00	0.43
25:BA:956:G:OP1	38:BP:87:LYS:CG	2.66	0.43
25:BA:974:G:C4	25:BA:1186:G:O6	2.72	0.43
25:BA:979:G:N2	25:BA:985:C:C4	2.86	0.43
26:BB:69:G:C2'	26:BB:69:G:N3	2.81	0.43
26:BB:69:G:H3'	26:BB:70:C:H6	1.84	0.43
26:BB:75:G:H21	47:BY:85:HIS:CD2	2.36	0.43
27:BC:10:LEU:CG	27:BC:220:PRO:HG3	2.47	0.43
27:BC:10:LEU:CD1	27:BC:32:LEU:O	2.66	0.43
27:BC:91:ALA:CB	27:BC:94:VAL:HG22	2.49	0.43
28:BD:161:THR:HG23	28:BD:196:VAL:HB	2.00	0.43
28:BD:175:LEU:O	28:BD:177:LEU:HD23	2.17	0.43
29:BE:136:ARG:CD	29:BE:136:ARG:C	2.87	0.43
29:BE:111:ARG:CA	29:BE:161:GLY:HA3	2.49	0.43
29:BE:40:GLU:C	29:BE:41:LYS:HD3	2.38	0.43
25:BA:2787:C:C5'	29:BE:64:LYS:HB2	2.48	0.43
29:BE:8:LYS:HZ3	29:BE:193:GLY:N	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:109:GLY:O	30:BF:112:MET:N	2.52	0.43
30:BF:139:PHE:CE2	30:BF:167:ALA:HB2	2.52	0.43
30:BF:194:MET:HE2	30:BF:195:ASP:CA	2.48	0.43
30:BF:200:GLU:C	30:BF:203:GLN:HB2	2.37	0.43
30:BF:35:GLU:H	30:BF:38:ARG:NH2	2.15	0.43
30:BF:67:GLN:O	30:BF:68:LYS:O	2.36	0.43
25:BA:1258:C:C5'	30:BF:84:VAL:HG21	2.48	0.43
25:BA:2305:A:C1'	31:BG:154:GLY:C	2.85	0.43
31:BG:1:MET:O	31:BG:3:LEU:N	2.52	0.43
31:BG:51:ARG:CD	31:BG:51:ARG:N	2.72	0.43
32:BH:172:LYS:HE2	32:BH:172:LYS:H	1.82	0.43
25:BA:2749:A:H4'	32:BH:62:LYS:HB2	2.00	0.43
33:BK:30:LEU:N	33:BK:30:LEU:HD22	2.34	0.43
35:BM:34:LEU:HD12	35:BM:34:LEU:H	1.83	0.43
35:BM:12:ARG:CZ	35:BM:48:MET:HG2	2.48	0.43
36:BN:18:LYS:CG	36:BN:19:ILE:N	2.63	0.43
36:BN:5:GLN:HG3	36:BN:20:MET:SD	2.58	0.43
36:BN:57:VAL:HG23	36:BN:58:VAL:C	2.38	0.43
37:BO:20:GLY:O	37:BO:21:ARG:CB	2.66	0.43
38:BP:75:THR:HG22	38:BP:77:LYS:CD	2.48	0.43
39:BQ:28:LEU:HD13	39:BQ:29:LEU:HD22	2.01	0.43
39:BQ:63:ARG:O	39:BQ:67:LEU:CB	2.66	0.43
39:BQ:61:HIS:CG	39:BQ:64:ARG:CD	3.01	0.43
40:BR:67:ARG:CD	40:BR:103:GLU:HB3	2.42	0.43
41:BS:105:LEU:CG	41:BS:106:SER:N	2.55	0.43
41:BS:21:GLU:OE2	41:BS:23:ARG:HD2	2.19	0.43
43:BU:52:VAL:CG1	43:BU:53:GLU:OE2	2.67	0.43
42:BT:94:ASN:ND2	43:BU:6:LYS:NZ	2.65	0.43
43:BU:20:LEU:C	43:BU:93:GLU:OE2	2.56	0.43
43:BU:68:LYS:CG	43:BU:95:LEU:HD21	2.35	0.43
44:BV:12:ILE:HD12	44:BV:46:PHE:CE2	2.54	0.43
47:BY:1:MET:CE	47:BY:61:LEU:HD11	2.48	0.43
47:BY:42:VAL:CA	47:BY:45:ASP:OD2	2.66	0.43
25:BA:2602:A:O2'	48:BZ:2:ALA:CB	2.67	0.43
33:BK:87:LYS:CE	33:BK:121:LYS:HG3	2.44	0.43
33:BK:125:GLU:C	33:BK:126:TYR:CD1	2.92	0.43
33:BK:60:GLU:O	33:BK:61:ARG:C	2.57	0.43
34:BL:98:ARG:HB3	34:BL:139:VAL:HB	2.00	0.43
25:BA:188:G:H2'	25:BA:189:G:C5'	2.49	0.43
1:AA:1537:U:H2'	1:AA:1538:C:O4'	2.18	0.43
1:AA:1538:C:C2	1:AA:1539:C:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:843:U:H3	5:AE:37:ASN:CA	2.25	0.43
33:BK:133:HIS:HB3	33:BK:136:VAL:HG22	1.95	0.43
33:BK:135:GLU:N	33:BK:135:GLU:CD	2.72	0.43
4:A1:10:G:C6	4:A1:11:U:O4	2.71	0.43
4:A1:11:U:C2'	4:A1:12:A:OP1	2.67	0.43
2:AC:24:U:H2'	2:AC:25:C:O4'	2.18	0.43
25:BA:1:G:H2'	25:BA:2:G:C8	2.53	0.43
25:BA:2535:G:N3	25:BA:2535:G:H2'	2.32	0.43
2:AC:35:A:C4	4:A1:18:G:N2	2.87	0.43
1:AA:1049:U:OP1	17:AQ:2:ALA:O	2.36	0.43
1:AA:1073:U:O2'	1:AA:1074:G:C5'	2.66	0.43
1:AA:1114:C:H4'	17:AQ:57:ARG:HH22	1.83	0.43
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.19	0.43
1:AA:1226:C:O2	1:AA:1226:C:H2'	2.19	0.43
1:AA:1403:C:O2'	1:AA:1404:C:O5'	2.32	0.43
1:AA:1418:A:C2	1:AA:1483:A:C6	3.06	0.43
1:AA:1488:G:N1	1:AA:1489:G:C5	2.87	0.43
1:AA:1505:G:C5'	1:AA:1506:U:O5'	2.62	0.43
1:AA:1510:U:C2'	1:AA:1511:G:O5'	2.66	0.43
1:AA:16:A:H2'	1:AA:16:A:N3	2.34	0.43
1:AA:178:C:N3	1:AA:179:A:N7	2.66	0.43
1:AA:182:U:H6	1:AA:182:U:H3'	1.83	0.43
1:AA:195:A:P	23:AW:68:LYS:HZ1	2.41	0.43
1:AA:20:U:H5'	1:AA:572:A:N1	2.33	0.43
1:AA:302:G:C6	1:AA:303:A:C5	3.07	0.43
1:AA:316:G:O6	1:AA:338:A:N6	2.52	0.43
1:AA:443:C:C2	1:AA:444:C:C5	3.07	0.43
1:AA:518:C:HO2'	1:AA:519:C:P	2.38	0.43
1:AA:531:U:OP2	1:AA:531:U:H3'	2.18	0.43
1:AA:684:A:O3'	14:AN:12:ARG:NH2	2.52	0.43
1:AA:6:G:N2	8:AH:98:THR:CG2	2.81	0.43
1:AA:792:A:N3	1:AA:794:A:N1	2.67	0.43
1:AA:830:G:C2	1:AA:857:C:C2	3.07	0.43
1:AA:947:G:C4	1:AA:948:C:C5	3.07	0.43
1:AA:976:G:OP2	1:AA:1358:U:C1'	2.66	0.43
2:AC:15:G:C2	2:AC:59:A:N1	2.86	0.43
3:AD:1:G:N1	3:AD:73:A:C5	2.87	0.43
5:AE:115:LEU:CB	5:AE:149:LEU:HD13	2.49	0.43
5:AE:131:PRO:O	5:AE:135:GLN:OE1	2.36	0.43
5:AE:154:LEU:O	5:AE:155:LEU:C	2.57	0.43
5:AE:163:PHE:CD2	5:AE:164:VAL:N	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:208:ILE:HD12	5:AE:239:VAL:CG1	2.49	0.43
5:AE:71:VAL:HG22	5:AE:93:VAL:N	2.32	0.43
6:AF:47:LEU:HD22	6:AF:47:LEU:N	2.34	0.43
6:AF:73:PRO:O	6:AF:74:GLY:C	2.57	0.43
1:AA:407:G:O2'	7:AG:116:GLN:HA	2.17	0.43
7:AG:3:ARG:HH21	7:AG:74:GLN:CD	2.21	0.43
8:AH:11:ILE:HG21	8:AH:31:LEU:HD13	2.00	0.43
10:AJ:99:LEU:CD2	10:AJ:102:ARG:HD2	2.49	0.43
10:AJ:153:HIS:C	10:AJ:153:HIS:CD2	2.92	0.43
10:AJ:75:VAL:HG22	10:AJ:88:PRO:N	2.33	0.43
11:AK:34:GLU:CG	11:AK:118:VAL:HG23	2.47	0.43
11:AK:65:TYR:HE2	11:AK:78:GLN:HE22	1.67	0.43
1:AA:1117:G:C5'	12:AL:104:ARG:HD3	2.46	0.43
12:AL:40:LEU:O	12:AL:42:ARG:N	2.51	0.43
12:AL:7:THR:HG22	12:AL:83:ARG:NH1	2.33	0.43
13:AM:3:LYS:CE	13:AM:77:PRO:CD	2.94	0.43
14:AN:40:ILE:H	14:AN:40:ILE:HD13	1.79	0.43
15:AO:100:ILE:CD1	15:AO:100:ILE:H	2.03	0.43
15:AO:102:ARG:NE	15:AO:109:GLY:HA2	2.34	0.43
15:AO:113:ARG:NH1	15:AO:115:LYS:HB2	2.30	0.43
15:AO:39:VAL:HB	15:AO:57:LYS:CB	2.41	0.43
16:AP:20:THR:HA	16:AP:25:ILE:CB	2.48	0.43
16:AP:46:LYS:HG3	16:AP:47:ASP:CG	2.39	0.43
19:AS:54:GLU:O	19:AS:54:GLU:OE2	2.36	0.43
20:AT:17:LYS:HE3	20:AT:48:GLU:HA	2.01	0.43
20:AT:60:ILE:HG21	20:AT:72:ARG:HG3	1.95	0.43
21:AU:47:THR:O	21:AU:48:GLY:C	2.56	0.43
23:AW:74:LYS:C	23:AW:76:ALA:H	2.20	0.43
1:AA:261:U:C4	23:AW:79:ARG:NH2	2.87	0.43
51:B3:38:LYS:HE3	51:B3:40:HIS:CG	2.54	0.43
51:B3:61:ARG:O	51:B3:64:GLY:N	2.51	0.43
51:B3:68:ARG:HA	51:B3:68:ARG:HD3	1.83	0.43
53:B5:49:HIS:HB3	53:B5:50:ARG:H	1.63	0.43
45:BW:60:ARG:HH12	54:B6:48:LYS:HZ3	1.66	0.43
25:BA:1109:C:N3	25:BA:1110:G:C2	2.87	0.43
25:BA:974:G:O2'	25:BA:1186:G:C1'	2.67	0.43
25:BA:1221:C:C4	25:BA:1229:G:N1	2.87	0.43
25:BA:1263:U:C4	25:BA:1264:G:N1	2.86	0.43
25:BA:1295:C:H2'	25:BA:1296:G:H8	1.82	0.43
25:BA:1317:A:C5	25:BA:1318:C:C5	3.06	0.43
25:BA:1322:A:H5''	44:BV:11:ARG:HH11	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1342:A:N1	25:BA:1397:U:H5	2.12	0.43
25:BA:1359:A:C6	25:BA:1360:A:C8	3.07	0.43
25:BA:1386:C:O2'	25:BA:1387:C:H5'	2.18	0.43
25:BA:1442:G:N2	25:BA:1443:G:C4	2.87	0.43
25:BA:1465:G:H2'	25:BA:1466:G:H8	1.82	0.43
25:BA:1496:A:C4	25:BA:1577:C:O2'	2.70	0.43
25:BA:1611:C:O2	25:BA:1611:C:H2'	2.18	0.43
25:BA:1692:U:C2	25:BA:1696:G:N2	2.87	0.43
25:BA:1774:C:C6	25:BA:1774:C:C3'	3.01	0.43
25:BA:178:G:C3'	25:BA:178:G:C8	3.02	0.43
25:BA:197:A:C4	25:BA:198:C:C6	3.07	0.43
25:BA:2019:A:C2'	25:BA:2020:A:OP1	2.67	0.43
25:BA:2019:A:C6	25:BA:2035:G:O6	2.71	0.43
25:BA:2052:G:H2'	25:BA:2053:G:O5'	2.19	0.43
25:BA:2082:A:C4	25:BA:2083:G:C8	3.07	0.43
25:BA:2114:A:C2'	25:BA:2115:G:C5'	2.89	0.43
25:BA:2135:A:O4'	25:BA:2135:A:N3	2.52	0.43
25:BA:222:A:N6	25:BA:224:G:N2	2.65	0.43
25:BA:221:A:C2	25:BA:233:A:C4	3.04	0.43
25:BA:2258:C:C4	25:BA:2426:A:O5'	2.72	0.43
25:BA:2468:G:O6	25:BA:2481:G:C6	2.71	0.43
25:BA:2503:A:H5'	25:BA:2504:U:OP2	2.19	0.43
25:BA:2550:G:C2	25:BA:2559:C:C2	3.07	0.43
25:BA:239:U:H1'	25:BA:259:G:N2	2.33	0.43
25:BA:261:G:H5'	25:BA:608:A:C2	2.54	0.43
25:BA:2654:A:H1'	25:BA:2656:U:C6	2.53	0.43
25:BA:270(L):U:HO2'	25:BA:270(M):U:C5'	2.28	0.43
25:BA:2789:C:O2'	25:BA:2790:A:P	2.77	0.43
25:BA:2876:G:C2	25:BA:2877:G:C5	3.06	0.43
25:BA:294:A:N1	25:BA:346:A:N1	2.67	0.43
25:BA:336:C:O2	25:BA:337:C:H5'	2.18	0.43
25:BA:337:C:OP1	46:BX:33:LYS:NZ	2.48	0.43
25:BA:401:A:H2	25:BA:407:G:C5'	2.32	0.43
25:BA:451:C:C4	25:BA:453:C:C6	3.07	0.43
25:BA:481:G:H2'	25:BA:507:A:N6	2.33	0.43
25:BA:485:C:C4	25:BA:486:C:C5	3.06	0.43
25:BA:499:U:C5	25:BA:500:G:H1'	2.54	0.43
25:BA:514:A:N3	25:BA:514:A:H2'	2.33	0.43
25:BA:547:A:OP2	25:BA:547:A:H8	2.01	0.43
25:BA:559:G:H2'	25:BA:560:C:C6	2.53	0.43
25:BA:621:A:H8	25:BA:622:G:O5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:704:G:O2'	25:BA:725:G:N2	2.49	0.43
25:BA:714:U:H5'	25:BA:715:G:OP1	2.19	0.43
25:BA:720:C:C2'	25:BA:721:C:O5'	2.66	0.43
25:BA:723:G:H21	25:BA:724:U:H1'	1.83	0.43
25:BA:743:G:C2	25:BA:755:C:C2	3.06	0.43
25:BA:782:A:H8	25:BA:782:A:OP1	2.02	0.43
25:BA:810:U:OP1	25:BA:1253:A:C6	2.72	0.43
25:BA:824:A:H2'	25:BA:825:C:C5	2.53	0.43
25:BA:836:G:C5	25:BA:837:C:C5	3.07	0.43
25:BA:84:A:C5	25:BA:99:U:O2	2.70	0.43
25:BA:903:C:C2	25:BA:904:C:C5	3.06	0.43
25:BA:981:A:O5'	25:BA:982:C:H5	2.02	0.43
26:BB:84:C:C2	26:BB:85:G:C8	3.07	0.43
27:BC:14:VAL:HG12	27:BC:16:PRO:CD	2.46	0.43
28:BD:27:THR:CG2	28:BD:29:PRO:CD	2.83	0.43
29:BE:128:SER:C	29:BE:130:GLY:N	2.71	0.43
29:BE:46:ALA:HB2	29:BE:85:ASN:OD1	2.19	0.43
29:BE:92:THR:HG23	29:BE:92:THR:O	2.17	0.43
30:BF:78:ILE:HA	30:BF:83:PHE:HZ	1.83	0.43
31:BG:114:ILE:O	31:BG:117:PHE:CD1	2.71	0.43
31:BG:34:LEU:HD23	31:BG:172:LEU:CG	2.49	0.43
31:BG:8:LYS:HE2	31:BG:103:LEU:CD2	2.45	0.43
32:BH:89:ILE:CG1	32:BH:94:TYR:CE2	3.02	0.43
35:BM:120:LEU:HD12	35:BM:121:LYS:H	1.77	0.43
35:BM:58:ASP:CG	35:BM:59:LYS:N	2.72	0.43
35:BM:19:GLU:HG3	35:BM:59:LYS:HD2	2.00	0.43
35:BM:70:LYS:CD	35:BM:86:PRO:HB3	2.47	0.43
36:BN:10:VAL:HG22	36:BN:11:ALA:H	1.78	0.43
36:BN:1:MET:O	36:BN:34:THR:HG23	2.17	0.43
37:BO:78:PRO:HG2	37:BO:117:GLU:CD	2.39	0.43
38:BP:22:LYS:HZ2	38:BP:23:GLY:C	2.22	0.43
38:BP:45:GLN:CD	38:BP:45:GLN:N	2.71	0.43
38:BP:60:ARG:N	38:BP:60:ARG:HD2	2.33	0.43
25:BA:956:G:OP2	38:BP:77:LYS:HE2	2.19	0.43
38:BP:85:LYS:CD	38:BP:86:GLY:H	2.29	0.43
38:BP:73:PRO:CA	38:BP:93:TYR:CE2	3.02	0.43
39:BQ:97:VAL:HG22	39:BQ:114:VAL:HG11	2.01	0.43
25:BA:2822:G:N7	39:BQ:4:LEU:CD2	2.81	0.43
39:BQ:54:LEU:HD11	39:BQ:57:ARG:HD3	1.97	0.43
39:BQ:67:LEU:CD2	39:BQ:71:GLN:HA	2.48	0.43
41:BS:102:ILE:O	41:BS:104:ASN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:75:ILE:HG13	41:BS:75:ILE:H	1.54	0.43
42:BT:114:LYS:HB3	42:BT:114:LYS:HE2	1.44	0.43
42:BT:65:ILE:C	42:BT:76:TYR:OH	2.56	0.43
25:BA:1151:G:H4'	42:BT:81:HIS:CD2	2.54	0.43
43:BU:11:GLN:H	43:BU:11:GLN:HG3	1.38	0.43
43:BU:69:LYS:HG2	43:BU:70:ILE:HG13	1.99	0.43
44:BV:37:ARG:HB2	44:BV:38:TYR:HD1	1.80	0.43
44:BV:44:ALA:O	44:BV:45:TYR:C	2.57	0.43
44:BV:90:ARG:HH21	44:BV:90:ARG:HA	1.76	0.43
25:BA:72:U:P	45:BW:3:THR:N	2.92	0.43
46:BX:43:ASN:HD22	46:BX:57:GLN:HB3	1.82	0.43
47:BY:171:ILE:CD1	47:BY:171:ILE:C	2.87	0.43
47:BY:177:PRO:CG	47:BY:178:GLU:N	2.80	0.43
48:BZ:27:GLU:OE1	48:BZ:27:GLU:HA	2.19	0.43
48:BZ:33:ALA:HA	48:BZ:61:ALA:CB	2.49	0.43
33:BK:114:LEU:CB	33:BK:130:TYR:HD2	2.30	0.43
33:BK:76:THR:CA	33:BK:77:LEU:HD23	2.49	0.43
34:BL:116:ASN:HD21	34:BL:126:MET:HE1	1.84	0.43
1:AA:1442:G:C4	1:AA:1446:A:N1	2.87	0.43
15:AO:16:GLU:O	15:AO:17:LYS:O	2.36	0.43
39:BQ:27:SER:O	39:BQ:30:THR:HB	2.18	0.43
19:AS:46:PRO:HG2	19:AS:47:ASP:H	1.84	0.43
20:AT:26:GLN:HG2	20:AT:37:LYS:HB3	1.99	0.43
1:AA:1192:C:C4	1:AA:1193:G:C4	3.04	0.43
1:AA:1287:A:C8	1:AA:1288:A:N7	2.87	0.43
1:AA:1290:G:C2	1:AA:1291:G:C8	3.06	0.43
1:AA:1222:G:OP2	1:AA:1322:C:H5	2.01	0.43
1:AA:1433:A:C2'	1:AA:1434:A:C5'	2.96	0.43
1:AA:152:A:N6	1:AA:169:C:C4	2.87	0.43
1:AA:173:U:H4'	1:AA:197:A:O4'	2.19	0.43
1:AA:247:G:C2	1:AA:282:A:H2	2.36	0.43
1:AA:322:C:N4	1:AA:332:G:H22	2.17	0.43
1:AA:395:C:C2	1:AA:396:G:N7	2.87	0.43
1:AA:542:G:H21	1:AA:543:C:H1'	1.84	0.43
1:AA:598:U:H4'	11:AK:94:TYR:CB	2.48	0.43
1:AA:682:G:H2'	1:AA:683:G:O5'	2.17	0.43
1:AA:754:C:C5'	1:AA:755:G:H8	2.28	0.43
1:AA:832:C:C4	1:AA:833:U:O4	2.72	0.43
1:AA:948:C:O2'	1:AA:949:A:O5'	2.37	0.43
1:AA:957:U:H6	1:AA:957:U:O5'	2.02	0.43
1:AA:975:A:C8	1:AA:1365:G:N2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:71:C:C2	2:AC:72:A:C8	3.07	0.43
5:AE:10:LEU:HG	5:AE:11:LEU:N	2.33	0.43
5:AE:168:THR:OG1	5:AE:192:SER:CA	2.61	0.43
6:AF:76:VAL:HG11	6:AF:103:VAL:HG11	2.01	0.43
7:AG:148:VAL:HB	7:AG:181:MET:HE3	1.99	0.43
7:AG:32:ALA:N	7:AG:34:GLU:O	2.52	0.43
8:AH:132:ALA:O	8:AH:135:THR:HB	2.18	0.43
8:AH:19:MET:HE3	8:AH:20:GLN:N	2.33	0.43
9:AI:42:GLU:HG2	9:AI:44:GLY:H	1.83	0.43
9:AI:50:TYR:CD1	21:AU:81:PHE:CZ	3.06	0.43
12:AL:50:LEU:HD23	12:AL:50:LEU:C	2.39	0.43
13:AM:3:LYS:CA	13:AM:3:LYS:CE	2.96	0.43
13:AM:41:PRO:O	13:AM:42:THR:C	2.57	0.43
14:AN:85:ARG:HA	14:AN:85:ARG:HD3	1.29	0.43
15:AO:41:ARG:HH12	15:AO:55:VAL:HG11	1.83	0.43
16:AP:110:ARG:HG3	16:AP:111:LYS:N	2.33	0.43
16:AP:71:ARG:O	16:AP:73:GLU:N	2.52	0.43
17:AQ:3:ARG:C	17:AQ:3:ARG:HD2	2.39	0.43
18:AR:17:ARG:HH11	18:AR:17:ARG:HG3	1.83	0.43
20:AT:59:ILE:HG12	20:AT:71:PHE:CB	2.41	0.43
21:AU:59:SER:O	21:AU:60:GLY:C	2.57	0.43
21:AU:62:GLU:O	21:AU:63:GLN:C	2.56	0.43
21:AU:80:PRO:HB2	21:AU:83:GLU:OE2	2.19	0.43
23:AW:39:LYS:O	23:AW:42:GLN:HB2	2.19	0.43
24:AX:6:ARG:HB3	24:AX:15:ARG:NH2	2.34	0.43
50:B2:5:LYS:NZ	50:B2:57:GLU:CB	2.73	0.43
51:B3:5:ILE:CB	51:B3:8:LYS:O	2.61	0.43
53:B5:29:ASN:O	53:B5:30:THR:C	2.57	0.43
53:B5:33:LYS:O	53:B5:33:LYS:HD2	2.18	0.43
53:B5:17:LYS:HZ3	53:B5:50:ARG:N	2.17	0.43
56:B8:10:ILE:N	56:B8:10:ILE:CD1	2.73	0.43
56:B8:2:LYS:HG2	56:B8:35:ARG:HB2	2.00	0.43
56:B8:9:ARG:HH21	56:B8:16:VAL:HG11	1.82	0.43
25:BA:1192:G:H8	25:BA:1192:G:O5'	2.01	0.43
25:BA:1195:G:N1	25:BA:1196:C:C5	2.87	0.43
25:BA:1263:U:C4'	52:B4:10:LYS:HZ2	2.32	0.43
25:BA:1302:A:H3'	25:BA:1303:G:C5'	2.49	0.43
25:BA:1304:C:C2'	25:BA:1305:C:O5'	2.67	0.43
25:BA:1334:G:C6	25:BA:1335:U:C4	3.07	0.43
25:BA:1370:C:C4	25:BA:1371:G:C5	3.07	0.43
25:BA:1356:G:C6	25:BA:1376:C:N4	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1419:A:C5	25:BA:1421:G:C6	3.07	0.43
25:BA:1567:A:N3	25:BA:1567:A:H2'	2.34	0.43
25:BA:1410:G:C2	25:BA:1593:G:C2	3.06	0.43
25:BA:1606:G:O2'	25:BA:1608:A:C2	2.62	0.43
25:BA:1625:C:C4	25:BA:1626:G:H8	2.35	0.43
25:BA:1661:G:C6	25:BA:2000:G:C6	3.07	0.43
25:BA:1676:A:C2'	25:BA:1677:A:C8	3.00	0.43
25:BA:1701:A:H2'	25:BA:1702:G:H8	1.83	0.43
25:BA:1778:U:C2'	25:BA:1779:U:O5'	2.66	0.43
25:BA:1809:A:H3'	25:BA:1810:A:N3	2.33	0.43
25:BA:180:G:OP2	54:B6:32:LYS:NZ	2.47	0.43
25:BA:1848:A:C6	25:BA:1849:G:C4	3.07	0.43
25:BA:1853:A:N3	25:BA:2233:U:O2'	2.48	0.43
25:BA:1929:G:H4'	25:BA:1930:G:OP1	2.18	0.43
25:BA:1935:G:C2'	25:BA:1936:A:OP2	2.67	0.43
25:BA:1772:G:N3	25:BA:1980:G:N2	2.66	0.43
25:BA:2142:C:H2'	25:BA:2143:C:C6	2.53	0.43
25:BA:2268:A:C5'	25:BA:2269:A:OP2	2.54	0.43
25:BA:2327:A:C2	25:BA:2388:A:C2	3.07	0.43
25:BA:2346:A:C2'	25:BA:2347:C:OP1	2.66	0.43
25:BA:2348:U:C2	25:BA:2349:G:C8	3.07	0.43
25:BA:2373:G:N2	25:BA:2374:C:C2	2.87	0.43
25:BA:2395:C:C2'	25:BA:2396:G:H8	2.13	0.43
25:BA:2468:G:O2'	25:BA:2469:A:P	2.76	0.43
25:BA:2555:U:H6	25:BA:2555:U:C3'	2.31	0.43
25:BA:2585:U:O4'	25:BA:2585:U:P	2.76	0.43
25:BA:2615:U:C2	25:BA:2616:C:C6	3.06	0.43
25:BA:270(S):G:N3	25:BA:270(T):G:C8	2.87	0.43
25:BA:2639:A:C1'	25:BA:2778:A:C2	2.95	0.43
25:BA:2839:G:C4	25:BA:2840:C:C6	3.07	0.43
25:BA:2857:G:C6	25:BA:2861:G:O6	2.72	0.43
25:BA:2886:G:H21	25:BA:2887:U:C1'	2.27	0.43
25:BA:289:A:H2'	25:BA:351:G:C2	2.53	0.43
25:BA:297:C:C4	25:BA:342:G:N1	2.86	0.43
25:BA:307:G:H22	25:BA:310:A:H5''	1.79	0.43
25:BA:332:A:O2'	25:BA:333:G:P	2.76	0.43
25:BA:396:G:C4	25:BA:397:G:C8	3.07	0.43
25:BA:399:G:C5	25:BA:400:G:H1'	2.53	0.43
25:BA:449:A:C2	25:BA:450:G:N3	2.87	0.43
25:BA:487:C:H6	25:BA:487:C:H3'	1.83	0.43
25:BA:530:G:N2	25:BA:2021:C:C6	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:589:C:C2	25:BA:590:A:N7	2.87	0.43
25:BA:613:U:O5'	25:BA:615:G:C8	2.72	0.43
25:BA:630:G:N2	25:BA:633:A:OP2	2.52	0.43
25:BA:703:U:H2'	25:BA:704:G:O4'	2.18	0.43
25:BA:734:A:C2	25:BA:735:A:C4	3.07	0.43
25:BA:757:U:H2'	25:BA:758:C:C6	2.54	0.43
25:BA:823:G:C2'	25:BA:824:A:H8	2.32	0.43
25:BA:865:C:C2'	25:BA:865:C:O2	2.66	0.43
25:BA:866:A:N3	25:BA:866:A:C2'	2.79	0.43
25:BA:896:A:OP1	47:BY:146:ILE:CG2	2.66	0.43
25:BA:957:A:O3'	25:BA:958:U:C4'	2.67	0.43
26:BB:28:C:C6	26:BB:28:C:O5'	2.58	0.43
26:BB:81:G:C2'	26:BB:82:G:H5'	2.48	0.43
27:BC:59:ARG:CD	27:BC:163:PHE:O	2.67	0.43
27:BC:87:GLU:HA	27:BC:94:VAL:HG21	1.99	0.43
28:BD:172:TYR:HD2	28:BD:185:VAL:N	2.16	0.43
28:BD:164:GLN:O	28:BD:176:ARG:HB3	2.18	0.43
28:BD:201:HIS:CG	28:BD:202:LYS:HD2	2.53	0.43
29:BE:60:ASN:O	29:BE:61:ARG:C	2.56	0.43
29:BE:51:PHE:CD1	29:BE:76:ARG:HB3	2.53	0.43
31:BG:37:VAL:HB	31:BG:99:MET:SD	2.59	0.43
32:BH:22:GLY:O	32:BH:37:VAL:CG1	2.63	0.43
33:BK:39:ALA:O	33:BK:40:THR:O	2.37	0.43
35:BM:131:GLN:C	35:BM:133:GLN:N	2.71	0.43
35:BM:136:GLU:OE1	35:BM:137:LYS:N	2.51	0.43
35:BM:6:PRO:N	35:BM:41:ASP:HB3	2.30	0.43
37:BO:125:VAL:O	37:BO:125:VAL:HG12	2.19	0.43
37:BO:147:LEU:C	37:BO:147:LEU:HD13	2.39	0.43
37:BO:15:ARG:O	37:BO:17:LYS:CE	2.66	0.43
37:BO:62:LEU:HD12	37:BO:62:LEU:N	2.34	0.43
37:BO:69:GLY:O	37:BO:70:GLN:CB	2.63	0.43
37:BO:81:GLN:CG	37:BO:86:LYS:NZ	2.81	0.43
38:BP:73:PRO:HG2	38:BP:73:PRO:O	2.19	0.43
25:BA:956:G:OP1	38:BP:87:LYS:HB2	2.18	0.43
39:BQ:10:LEU:HD22	39:BQ:43:GLU:HG2	1.99	0.43
39:BQ:31:HIS:HD2	39:BQ:34:ILE:CD1	2.32	0.43
40:BR:67:ARG:CZ	40:BR:71:ARG:HG2	2.48	0.43
40:BR:88:ASP:OD1	40:BR:89:ARG:N	2.51	0.43
41:BS:58:ASN:HA	41:BS:61:PHE:CZ	2.53	0.43
36:BN:122:LEU:HG	41:BS:71:GLY:HA3	1.89	0.43
42:BT:91:ASP:O	42:BT:95:LEU:HD21	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:98:LEU:HB3	42:BT:105:VAL:CG1	2.49	0.43
43:BU:62:LEU:HD22	43:BU:98:GLU:C	2.37	0.43
43:BU:64:HIS:CB	43:BU:96:ILE:HG22	2.48	0.43
44:BV:64:MET:HG2	44:BV:109:GLU:CD	2.36	0.43
25:BA:480:A:P	46:BX:44:ILE:HD11	2.59	0.43
46:BX:65:ALA:O	46:BX:66:PRO:C	2.57	0.43
47:BY:74:VAL:HG12	47:BY:76:LEU:HG	2.01	0.43
48:BZ:31:VAL:CG2	48:BZ:67:VAL:N	2.82	0.43
33:BK:83:ALA:HA	33:BK:89:TYR:CE1	2.54	0.43
33:BK:93:THR:O	33:BK:96:ASP:CB	2.67	0.43
25:BA:1053:C:C5	25:BA:1054:A:N7	2.87	0.43
25:BA:1084:A:C3'	25:BA:1085:A:H5'	2.49	0.43
34:BL:19:PRO:O	34:BL:20:ALA:C	2.56	0.43
34:BL:79:ARG:NH1	34:BL:86:LYS:C	2.72	0.43
47:BY:175:VAL:HG13	47:BY:176:PRO:CD	2.47	0.43
1:AA:82:U:O2	1:AA:87:A:H2	2.01	0.43
7:AG:195:ALA:O	7:AG:196:LEU:C	2.57	0.43
3:AD:27:U:H2'	3:AD:28:G:H8	1.83	0.43
3:AD:29:C:H2'	3:AD:30:G:O5'	2.17	0.43
11:AK:54:ASP:N	11:AK:54:ASP:OD1	2.52	0.43
25:BA:438:G:H2'	25:BA:439:G:O5'	2.17	0.43
44:BV:81:ALA:CB	44:BV:97:LYS:HB2	2.49	0.43
1:AA:103:C:O4'	1:AA:151:A:H2	2.00	0.43
1:AA:1067:A:C2	1:AA:1068:G:H1'	2.54	0.43
1:AA:1083:U:C4	1:AA:1084:G:C6	3.07	0.43
1:AA:108:G:H5''	1:AA:109:A:C2	2.54	0.43
1:AA:1140:C:N3	1:AA:1141:C:C5	2.87	0.43
1:AA:1169:A:N1	1:AA:1170:A:H2	2.16	0.43
1:AA:1232:U:O5'	1:AA:1232:U:H6	2.02	0.43
1:AA:1241:G:C6	1:AA:1242:C:C4	3.06	0.43
1:AA:1247:U:O2'	1:AA:1248:A:C5'	2.64	0.43
1:AA:1287:A:N6	1:AA:1288:A:N6	2.66	0.43
1:AA:1299:A:C5	1:AA:1301:U:H1'	2.53	0.43
1:AA:1360:A:O2'	1:AA:1361:G:H5'	2.19	0.43
1:AA:1399:C:N3	1:AA:1401:G:N3	2.67	0.43
1:AA:1476:G:H2'	1:AA:1477:C:H6	1.84	0.43
1:AA:156:G:N2	1:AA:157:G:H1'	2.34	0.43
1:AA:242:C:H2'	1:AA:243:A:C5'	2.48	0.43
1:AA:267:C:H2'	1:AA:268:C:H6	1.79	0.43
1:AA:266:G:N2	1:AA:269:C:H41	2.11	0.43
1:AA:509:A:C6	1:AA:510:A:C2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:67:C:O2'	1:AA:171:A:H1'	2.19	0.43
1:AA:698:G:H2'	1:AA:699:C:H6	1.84	0.43
1:AA:712:A:H2'	1:AA:713:G:C8	2.54	0.43
2:AC:60:U:O2	2:AC:60:U:C2'	2.50	0.43
2:AC:70:G:N2	2:AC:71:C:H1'	2.33	0.43
2:AC:76:A:H5'	2:AC:76:A:H8	1.84	0.43
5:AE:142:LEU:O	5:AE:143:GLU:C	2.57	0.43
5:AE:31:TYR:CZ	5:AE:200:ILE:HG21	2.53	0.43
5:AE:43:ASP:O	5:AE:47:THR:CB	2.66	0.43
5:AE:75:LYS:O	5:AE:77:ALA:N	2.50	0.43
5:AE:79:ASP:OD1	5:AE:82:ARG:HG2	2.18	0.43
6:AF:120:VAL:O	6:AF:123:GLN:HB2	2.19	0.43
6:AF:153:VAL:O	6:AF:153:VAL:HG23	2.17	0.43
6:AF:138:VAL:C	6:AF:170:GLN:NE2	2.72	0.43
6:AF:40:ARG:HG3	6:AF:57:ILE:HD12	2.01	0.43
7:AG:52:SER:OG	7:AG:54:TYR:HB3	2.18	0.43
8:AH:118:ILE:CG2	8:AH:119:LEU:N	2.82	0.43
8:AH:109:ILE:HD11	8:AH:136:MET:HA	2.00	0.43
8:AH:144:THR:O	8:AH:147:ASP:N	2.52	0.43
8:AH:33:VAL:O	8:AH:34:VAL:CG2	2.67	0.43
8:AH:78:HIS:HD2	8:AH:78:HIS:N	2.13	0.43
9:AI:46:ARG:CG	9:AI:47:ARG:N	2.71	0.43
11:AK:103:VAL:HB	11:AK:109:ILE:N	2.33	0.43
11:AK:136:GLU:N	11:AK:136:GLU:OE1	2.51	0.43
12:AL:113:LYS:HZ2	12:AL:119:ALA:CB	2.32	0.43
12:AL:113:LYS:O	12:AL:115:GLY:N	2.50	0.43
1:AA:1131:G:OP2	12:AL:20:ARG:NH2	2.52	0.43
12:AL:79:LEU:CD1	12:AL:101:PHE:HB3	2.48	0.43
12:AL:91:ASP:O	12:AL:92:TYR:HD2	2.01	0.43
13:AM:50:ILE:HB	17:AQ:41:ARG:CZ	2.49	0.43
14:AN:82:VAL:O	14:AN:108:ILE:HA	2.19	0.43
16:AP:81:LEU:HG	16:AP:88:ARG:NH2	2.34	0.43
17:AQ:26:ARG:HG3	17:AQ:39:LEU:HD22	2.00	0.43
1:AA:974:A:N9	17:AQ:31:ARG:NH2	2.67	0.43
19:AS:78:GLY:O	19:AS:79:VAL:CG2	2.66	0.43
21:AU:47:THR:CB	21:AU:49:LYS:NZ	2.71	0.43
22:AV:22:LEU:HD23	22:AV:22:LEU:C	2.39	0.43
23:AW:25:ARG:HG2	23:AW:29:LYS:HE2	2.01	0.43
50:B2:33:GLN:O	50:B2:33:GLN:HG3	2.17	0.43
50:B2:6:VAL:HG12	50:B2:55:ARG:C	2.38	0.43
51:B3:5:ILE:C	51:B3:7:PRO:HD2	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B5:23:THR:OG1	53:B5:24:GLU:N	2.51	0.43
53:B5:27:LYS:O	53:B5:28:ARG:HB2	2.19	0.43
53:B5:33:LYS:O	53:B5:35:GLU:HG2	2.18	0.43
54:B6:25:PRO:HA	54:B6:28:ARG:HH21	1.84	0.43
55:B7:12:LYS:CD	55:B7:13:ARG:HH22	2.31	0.43
55:B7:38:GLY:O	55:B7:41:ILE:HG12	2.19	0.43
55:B7:52:LYS:O	55:B7:54:GLU:OE1	2.37	0.43
56:B8:11:CYS:HB3	56:B8:32:HIS:CE1	2.54	0.43
25:BA:1021:A:C3'	25:BA:1021:A:C8	3.01	0.43
25:BA:105:C:H2'	25:BA:106:C:H6	1.84	0.43
25:BA:108:U:H2'	25:BA:109:G:H8	1.84	0.43
25:BA:1112:G:OP1	32:BH:4:ILE:HG21	2.19	0.43
25:BA:1000:A:C6	25:BA:1155:A:C8	3.07	0.43
25:BA:812:C:C1'	25:BA:1250:G:N1	2.81	0.43
25:BA:1391:U:C4	25:BA:1394:U:C5	3.07	0.43
25:BA:1405:U:N3	25:BA:1406:U:C4	2.87	0.43
25:BA:1451:C:C4'	25:BA:1451:C:OP2	2.67	0.43
25:BA:1480:G:O2'	25:BA:1482:U:OP1	2.29	0.43
25:BA:1581:G:C8	25:BA:1582:C:C5	3.06	0.43
25:BA:1648:C:N3	25:BA:1649:G:N7	2.67	0.43
25:BA:1782:C:C6	25:BA:1782:C:C3'	3.02	0.43
25:BA:181:A:C2	25:BA:434:U:O2'	2.72	0.43
25:BA:1790:C:C4'	25:BA:1828:G:H22	2.31	0.43
25:BA:1846:G:N2	25:BA:1895:C:N3	2.66	0.43
25:BA:1853:A:N6	25:BA:1889:A:N7	2.67	0.43
25:BA:1926:U:N3	25:BA:1929:G:N2	2.67	0.43
25:BA:1952:A:N6	25:BA:1953:A:N1	2.66	0.43
25:BA:1996:C:H2'	25:BA:1997:G:O5'	2.18	0.43
25:BA:529:A:N6	25:BA:2042:A:H2	2.16	0.43
25:BA:2061:G:N2	25:BA:2063:C:N1	2.67	0.43
25:BA:213:A:N1	25:BA:214:G:N3	2.67	0.43
25:BA:21:A:H1'	25:BA:520:G:N2	2.34	0.43
25:BA:2218:G:H4'	28:BD:186:HIS:CE1	2.53	0.43
25:BA:966:G:C2'	25:BA:2267:A:N6	2.81	0.43
25:BA:2269:A:H2'	25:BA:2270:G:O4'	2.18	0.43
25:BA:2313:C:H5''	31:BG:91:ARG:HG2	2.00	0.43
25:BA:2376:A:H3'	25:BA:2377:A:H8	1.83	0.43
25:BA:2449:U:H5'	25:BA:2450:A:P	2.58	0.43
25:BA:250:G:N3	25:BA:250:G:H2'	2.33	0.43
25:BA:2520:C:C4	25:BA:2567:G:C8	3.06	0.43
25:BA:2660:A:H2'	25:BA:2661:G:O5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2662:A:O5'	25:BA:2662:A:C8	2.72	0.43
25:BA:2665:A:C2'	25:BA:2666:C:O5'	2.67	0.43
25:BA:2671:A:H2'	25:BA:2672:G:C8	2.53	0.43
25:BA:2714:G:C2'	25:BA:2715:C:H5'	2.49	0.43
25:BA:2787:C:H1'	29:BE:61:ARG:NE	2.34	0.43
25:BA:2848:G:C1'	41:BS:99:LEU:HD11	2.49	0.43
25:BA:284:U:P	25:BA:284:U:H3'	2.59	0.43
25:BA:2888:C:C2	25:BA:2889:C:C5	3.07	0.43
25:BA:288:C:O5'	25:BA:288:C:H6	2.01	0.43
25:BA:289:A:C4	25:BA:351:G:O6	2.71	0.43
25:BA:297:C:H3'	25:BA:298:G:N7	2.31	0.43
25:BA:353:G:C6	25:BA:354:G:C6	3.07	0.43
25:BA:404:C:H4'	25:BA:406:G:C8	2.53	0.43
25:BA:479:A:C2'	25:BA:480:A:H5'	2.49	0.43
25:BA:486:C:N3	25:BA:495:G:C6	2.87	0.43
25:BA:501:A:O5'	25:BA:501:A:C8	2.71	0.43
25:BA:512:G:H5'	25:BA:513:A:OP1	2.19	0.43
25:BA:629:G:O6	25:BA:630:G:C6	2.72	0.43
25:BA:630:G:H2'	25:BA:632:A:OP2	2.19	0.43
25:BA:715:G:N3	25:BA:716:A:C2	2.87	0.43
25:BA:765:G:O6	25:BA:766:C:N4	2.52	0.43
25:BA:684:G:N1	25:BA:775:G:C5	2.87	0.43
25:BA:674:G:N2	25:BA:807:U:C4	2.86	0.43
25:BA:932:G:N2	25:BA:933:A:C5	2.87	0.43
26:BB:109:G:C2	26:BB:110:G:C8	3.07	0.43
26:BB:74:U:H2'	26:BB:75:G:C1'	2.49	0.43
27:BC:55:ASP:O	27:BC:56:GLN:HG2	2.19	0.43
27:BC:54:SER:HA	27:BC:57:ASN:HD22	1.84	0.43
25:BA:1813:G:N3	28:BD:52:ARG:CZ	2.82	0.43
28:BD:61:LEU:C	28:BD:62:TYR:CG	2.89	0.43
25:BA:2729:G:H4'	29:BE:185:LYS:CE	2.49	0.43
29:BE:8:LYS:HZ3	29:BE:193:GLY:HA3	1.83	0.43
29:BE:102:VAL:HA	29:BE:202:LYS:HZ1	1.84	0.43
30:BF:162:LEU:HG	30:BF:162:LEU:H	1.62	0.43
31:BG:115:ARG:O	31:BG:117:PHE:N	2.52	0.43
31:BG:21:ARG:HH11	31:BG:27:ASN:HA	1.79	0.43
32:BH:149:ARG:HG2	32:BH:153:LYS:CE	2.48	0.43
32:BH:40:GLU:CG	32:BH:55:PRO:HG3	2.48	0.43
32:BH:60:ARG:HD2	32:BH:61:HIS:HD2	1.79	0.43
32:BH:97:ARG:NH1	32:BH:99:VAL:HG21	2.34	0.43
35:BM:128:HIS:O	35:BM:131:GLN:CB	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1006:C:H4'	35:BM:32:THR:OG1	2.19	0.43
36:BN:106:LEU:HB2	41:BS:39:ARG:CZ	2.41	0.43
36:BN:3:GLN:CB	36:BN:6:THR:HB	2.49	0.43
37:BO:107:LYS:CE	37:BO:110:TYR:HB3	2.47	0.43
37:BO:126:VAL:O	37:BO:127:ALA:HB2	2.19	0.43
37:BO:130:PHE:HB3	37:BO:134:ALA:CB	2.49	0.43
37:BO:43:GLY:O	37:BO:44:GLY:C	2.57	0.43
40:BR:68:GLN:C	40:BR:70:GLY:N	2.71	0.43
40:BR:72:ALA:O	40:BR:73:LEU:C	2.57	0.43
40:BR:77:ALA:O	40:BR:79:ALA:N	2.52	0.43
41:BS:85:LYS:CD	41:BS:88:ILE:HD11	2.47	0.43
25:BA:996:A:C4'	42:BT:93:LYS:CG	2.86	0.43
42:BT:93:LYS:CG	43:BU:10:LYS:HZ2	2.30	0.43
43:BU:62:LEU:CG	43:BU:98:GLU:HA	2.48	0.43
25:BA:1266:G:C1'	44:BV:15:ARG:NH1	2.82	0.43
45:BW:24:GLY:C	45:BW:82:GLN:HG3	2.39	0.43
46:BX:15:VAL:CG1	46:BX:16:ALA:N	2.77	0.43
46:BX:15:VAL:O	46:BX:17:SER:N	2.51	0.43
46:BX:2:ARG:NE	46:BX:3:VAL:HG23	2.34	0.43
47:BY:43:GLU:HA	47:BY:46:LYS:HG3	2.01	0.43
47:BY:98:MET:HG3	47:BY:133:ILE:CG2	2.42	0.43
48:BZ:48:GLY:O	48:BZ:49:LYS:C	2.57	0.43
25:BA:1057:A:C4	25:BA:1085:A:N1	2.86	0.43
34:BL:92:GLY:C	34:BL:94:GLU:H	2.22	0.43
25:BA:2342:C:H6	25:BA:2342:C:O5'	2.01	0.43
23:AW:8:ARG:CB	23:AW:8:ARG:CZ	2.95	0.43
1:AA:1310:G:H3'	22:AV:2:PRO:HD2	2.01	0.43
1:AA:1063:C:C5'	1:AA:1064:G:OP2	2.67	0.43
1:AA:1068:G:C8	1:AA:1094:G:C8	3.07	0.43
1:AA:10:A:OP2	8:AH:126:ARG:HD2	2.19	0.43
1:AA:1301:U:C4	1:AA:1303:C:C6	3.06	0.43
1:AA:1415:G:H2'	1:AA:1416:G:O5'	2.18	0.43
1:AA:319:G:H5'	1:AA:1468:A:H4'	2.01	0.43
1:AA:1430:C:N3	1:AA:1471:G:C2	2.86	0.43
1:AA:1514:C:N4	1:AA:1515:C:N4	2.67	0.43
1:AA:151:A:H2'	1:AA:152:A:H5'	2.00	0.43
1:AA:153:C:O5'	1:AA:153:C:H6	2.02	0.43
1:AA:156:G:C6	1:AA:166:G:C6	3.07	0.43
1:AA:150:C:N4	1:AA:170:U:N3	2.67	0.43
1:AA:177:C:C4	1:AA:178:C:C5	3.06	0.43
1:AA:234:C:O2	1:AA:235:C:C6	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:262:A:C2	1:AA:263:A:C5	3.07	0.43
1:AA:293:G:N2	1:AA:294:U:C2	2.87	0.43
1:AA:311:C:H2'	1:AA:312:C:H6	1.84	0.43
1:AA:338:A:C4	1:AA:339:C:C6	3.06	0.43
1:AA:440:A:H2'	1:AA:442:C:H6	1.84	0.43
1:AA:528:C:N4	15:AO:49:ASN:HD22	2.10	0.43
1:AA:541:G:H2'	1:AA:542:G:O4'	2.19	0.43
1:AA:683:G:C2'	1:AA:684:A:O5'	2.67	0.43
1:AA:6:G:H1	8:AH:98:THR:CG2	2.31	0.43
1:AA:761:G:C2'	1:AA:762:C:H5'	2.49	0.43
1:AA:777:A:N7	1:AA:778:G:N7	2.67	0.43
1:AA:788:U:C2	1:AA:789:U:O2	2.72	0.43
1:AA:585:G:H21	1:AA:879:C:C4'	2.32	0.43
1:AA:945:G:C2	1:AA:946:A:C8	3.07	0.43
2:AC:21:A:H2'	2:AC:22:G:C8	2.54	0.43
2:AC:30:G:C2'	2:AC:31:G:O5'	2.67	0.43
3:AD:52:G:C2	3:AD:53:G:H1'	2.53	0.43
5:AE:73:THR:CG2	5:AE:95:GLN:O	2.66	0.43
7:AG:10:ARG:CD	7:AG:10:ARG:C	2.87	0.43
7:AG:3:ARG:NH2	7:AG:74:GLN:CD	2.72	0.43
1:AA:5:U:C6	7:AG:86:LYS:HE2	2.54	0.43
1:AA:8:A:N3	8:AH:102:ALA:O	2.52	0.43
1:AA:7:G:N2	8:AH:121:LYS:CB	2.75	0.43
8:AH:20:GLN:O	8:AH:21:ALA:C	2.55	0.43
8:AH:28:PHE:HE1	8:AH:50:GLU:CA	2.30	0.43
10:AJ:42:ILE:CG2	10:AJ:120:ILE:HD11	2.45	0.43
10:AJ:12:LEU:HD12	10:AJ:12:LEU:H	1.82	0.43
11:AK:8:ASP:C	11:AK:11:THR:OG1	2.56	0.43
11:AK:123:GLU:OE2	11:AK:124:ALA:HA	2.18	0.43
1:AA:826:C:H5'	11:AK:12:ARG:NE	2.34	0.43
11:AK:14:ARG:CD	11:AK:15:ASN:N	2.82	0.43
12:AL:2:GLU:O	12:AL:20:ARG:CG	2.67	0.43
12:AL:86:VAL:O	12:AL:90:PRO:N	2.51	0.43
13:AM:13:HIS:O	13:AM:14:LYS:CD	2.67	0.43
13:AM:80:LYS:O	13:AM:81:THR:C	2.58	0.43
14:AN:33:THR:HB	14:AN:38:ASN:O	2.19	0.43
15:AO:33:ARG:HE	15:AO:33:ARG:CA	2.25	0.43
15:AO:58:VAL:HG12	15:AO:59:ARG:O	2.19	0.43
22:AV:12:ASP:O	22:AV:16:LEU:CD2	2.66	0.43
22:AV:37:ARG:HD3	22:AV:37:ARG:HA	1.65	0.43
50:B2:10:LYS:HZ3	50:B2:31:LEU:CD2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B2:6:VAL:CG2	50:B2:35:ARG:CZ	2.97	0.43
53:B5:20:ASN:CG	53:B5:43:CYS:HG	2.21	0.43
53:B5:31:PRO:HB3	53:B5:34:LEU:HD12	2.01	0.43
53:B5:52:VAL:CG1	53:B5:53:LYS:H	2.27	0.43
25:BA:1048:A:C2	25:BA:1113:U:O4'	2.72	0.43
25:BA:1013:C:O5'	25:BA:1142:U:O2	2.37	0.43
25:BA:124:G:C8	25:BA:124:G:H3'	2.54	0.43
25:BA:125:G:N2	54:B6:14:LYS:CG	2.81	0.43
25:BA:1264:G:H5''	25:BA:1265:A:C4'	2.48	0.43
25:BA:1275:A:HO2'	25:BA:1276:A:C4'	2.32	0.43
25:BA:1287:A:H3'	25:BA:1288:U:H6	1.84	0.43
25:BA:1371:G:O5'	25:BA:1371:G:H8	2.02	0.43
25:BA:1462:C:C5'	25:BA:1463:C:P	3.07	0.43
25:BA:1471:A:O2'	25:BA:1472:A:H5'	2.19	0.43
25:BA:1487:G:C5	25:BA:1488:G:N7	2.87	0.43
25:BA:147:U:C2	25:BA:148:C:C4	3.06	0.43
25:BA:1535:U:H2'	25:BA:1536:A:H8	1.83	0.43
25:BA:1579:A:N6	25:BA:1581:G:C2	2.87	0.43
25:BA:1933:G:C6	25:BA:1934:C:C5	3.07	0.43
25:BA:1992:G:C4'	25:BA:1993:U:C4	3.00	0.43
25:BA:1996:C:H2'	25:BA:1997:G:H4'	1.99	0.43
25:BA:1268:A:OP2	25:BA:2006:C:OP2	2.36	0.43
25:BA:2021:C:OP2	52:B4:11:THR:OG1	2.33	0.43
25:BA:2070:G:C6	25:BA:2071:A:C6	3.07	0.43
25:BA:2085:C:H2'	25:BA:2086:U:C5'	2.49	0.43
25:BA:2137:C:N3	25:BA:2138:C:C5	2.87	0.43
25:BA:2175:C:N3	25:BA:2176:A:C8	2.87	0.43
25:BA:2100:G:C1'	25:BA:2190:G:N2	2.82	0.43
25:BA:2192:G:N1	25:BA:2193:G:N7	2.66	0.43
25:BA:2258:C:N4	25:BA:2426:A:O4'	2.52	0.43
25:BA:2290:G:H2'	25:BA:2291:U:C6	2.54	0.43
25:BA:2344:U:H2'	25:BA:2345:G:OP2	2.19	0.43
25:BA:2392:A:C2	25:BA:2429:G:C4	3.07	0.43
25:BA:2392:A:C2'	25:BA:2393:A:O5'	2.64	0.43
25:BA:2416:C:H5'	37:BO:59:LEU:O	2.19	0.43
25:BA:2421:G:N1	25:BA:2422:A:N6	2.65	0.43
25:BA:2447:G:C6	25:BA:2452:C:N4	2.87	0.43
25:BA:2471:C:H2'	25:BA:2472:G:H5'	2.00	0.43
25:BA:23:G:H2'	25:BA:24:G:O5'	2.19	0.43
25:BA:252:G:C2	25:BA:253:C:N1	2.86	0.43
25:BA:2556:C:H2'	25:BA:2557:G:C5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2559:C:C2'	25:BA:2560:C:O5'	2.67	0.43
25:BA:2585:U:C2'	25:BA:2585:U:O2	2.66	0.43
25:BA:2606:C:C5'	25:BA:2606:C:H6	2.20	0.43
25:BA:2657:A:C6	25:BA:2665:A:N7	2.87	0.43
25:BA:2784:C:C4	25:BA:2785:C:C5	3.07	0.43
25:BA:282:A:N1	25:BA:283:A:O2'	2.43	0.43
25:BA:2867:G:H5'	25:BA:2868:A:H5'	2.00	0.43
25:BA:2886:G:N2	25:BA:2887:U:N1	2.67	0.43
25:BA:308:G:H22	25:BA:329:G:H2'	1.84	0.43
25:BA:47:C:C6	25:BA:47:C:O5'	2.72	0.43
25:BA:536:A:N1	25:BA:558:G:C6	2.86	0.43
25:BA:542:C:H2'	25:BA:543:C:C6	2.43	0.43
25:BA:587:C:H4'	25:BA:588:U:OP2	2.19	0.43
25:BA:650:C:O2	25:BA:651:G:O4'	2.36	0.43
25:BA:768:G:C5	25:BA:769:G:N7	2.87	0.43
25:BA:77:C:O2'	25:BA:78:A:H5'	2.18	0.43
25:BA:806:C:C2'	25:BA:807:U:H6	2.25	0.43
25:BA:832:G:OP1	37:BO:36:LYS:NZ	2.40	0.43
25:BA:852:G:O2'	25:BA:853:G:H5'	2.19	0.43
25:BA:900:A:N7	25:BA:901:A:C8	2.87	0.43
25:BA:92:G:O2'	25:BA:93:C:H5'	2.19	0.43
25:BA:979:G:C8	25:BA:981:A:OP2	2.69	0.43
25:BA:981:A:H3'	25:BA:982:C:C5	2.54	0.43
26:BB:45:A:C2	26:BB:46:A:O4'	2.72	0.43
26:BB:51:G:C8	26:BB:51:G:OP2	2.72	0.43
26:BB:69:G:C2	26:BB:70:C:C5	3.07	0.43
26:BB:99:A:H8	26:BB:99:A:C5'	2.28	0.43
27:BC:209:LEU:HG	27:BC:212:VAL:HG23	2.01	0.43
27:BC:53:ARG:O	27:BC:55:ASP:CG	2.58	0.43
28:BD:147:LEU:H	28:BD:154:LYS:HG3	1.84	0.43
25:BA:1805:U:O2	28:BD:51:VAL:HG11	2.19	0.43
28:BD:63:ARG:CZ	28:BD:63:ARG:N	2.82	0.43
28:BD:7:LYS:CD	28:BD:91:ARG:NE	2.81	0.43
28:BD:9:TYR:HE2	28:BD:201:HIS:CB	2.32	0.43
29:BE:133:LYS:CE	29:BE:138:PRO:HD3	2.49	0.43
29:BE:49:LEU:HD12	29:BE:51:PHE:N	2.18	0.43
30:BF:164:ARG:HA	30:BF:167:ALA:HB3	2.01	0.43
31:BG:126:ASP:HA	31:BG:166:ASP:OD2	2.19	0.43
31:BG:137:GLU:HG2	31:BG:138:GLN:O	2.19	0.43
31:BG:161:THR:OG1	31:BG:163:ALA:CB	2.67	0.43
31:BG:29:TRP:HB2	31:BG:31:VAL:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:44:GLY:HA2	31:BG:47:LYS:HB3	2.01	0.43
32:BH:149:ARG:CA	32:BH:162:ILE:HD13	2.43	0.43
32:BH:164:TYR:CD2	32:BH:166:GLY:N	2.86	0.43
32:BH:23:ARG:HH21	32:BH:34:GLU:HB3	1.83	0.43
35:BM:18:ALA:O	35:BM:19:GLU:C	2.56	0.43
35:BM:96:GLU:HG2	35:BM:97:ARG:HG2	2.01	0.43
36:BN:2:ILE:HD13	36:BN:32:TYR:HB3	1.99	0.43
36:BN:34:THR:O	36:BN:35:VAL:C	2.55	0.43
25:BA:2561:A:O2'	36:BN:40:VAL:HG11	2.18	0.43
38:BP:102:VAL:HG11	38:BP:104:PHE:CZ	2.54	0.43
38:BP:44:ALA:H	38:BP:94:VAL:HG12	1.84	0.43
40:BR:26:LEU:C	40:BR:26:LEU:HD22	2.39	0.43
40:BR:30:ARG:HB3	40:BR:31:SER:H	1.63	0.43
40:BR:38:GLN:HB2	40:BR:38:GLN:HE21	1.66	0.43
25:BA:30:G:OP1	42:BT:7:GLY:HA3	2.18	0.43
44:BV:32:ALA:O	44:BV:35:ILE:HG22	2.18	0.43
44:BV:78:GLU:HG2	44:BV:99:ARG:HD2	2.00	0.43
25:BA:1614:A:N6	44:BV:91:GLY:O	2.52	0.43
45:BW:33:LYS:NZ	45:BW:34:ALA:N	2.63	0.43
45:BW:50:LYS:HG3	45:BW:84:ALA:CB	2.44	0.43
46:BX:11:ASP:O	46:BX:12:THR:OG1	2.35	0.43
46:BX:26:LYS:HD2	46:BX:36:ALA:HB3	2.01	0.43
47:BY:60:GLU:OE2	47:BY:90:VAL:HG12	2.19	0.43
48:BZ:54:GLY:C	48:BZ:56:ASP:N	2.69	0.43
33:BK:147:GLN:CD	33:BK:147:GLN:C	2.77	0.43
25:BA:1102:C:H1'	25:BA:1103:A:N7	2.34	0.43
34:BL:72:PRO:HA	34:BL:73:PRO:HD2	1.91	0.43
2:AC:26:G:C2'	2:AC:26:G:N3	2.80	0.43
25:BA:1628:G:C6	25:BA:1629:U:C4	3.06	0.43
34:BL:5:VAL:O	34:BL:6:ALA:HB2	2.18	0.43
1:AA:1076:C:C2	1:AA:1082:G:N2	2.87	0.42
1:AA:1148:U:O4'	12:AL:16:ARG:HD2	2.18	0.42
1:AA:1244:C:N4	1:AA:1245:A:H62	2.17	0.42
1:AA:136:C:H2'	1:AA:137:C:C6	2.54	0.42
1:AA:1419:G:C2	1:AA:1420:C:C2	3.07	0.42
1:AA:1464:G:N1	1:AA:1465:C:N4	2.67	0.42
1:AA:1498:U:O2'	1:AA:1499:A:O5'	2.36	0.42
1:AA:1514:C:C2	1:AA:1515:C:C5	3.07	0.42
1:AA:186(C):G:H2'	1:AA:186(D):C:C5	2.53	0.42
1:AA:219:C:C3'	1:AA:219:C:H6	2.24	0.42
1:AA:230:G:N2	1:AA:231:G:C1'	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:231:G:C5	1:AA:232:G:N7	2.87	0.42
1:AA:264:U:O4	1:AA:265:G:C2	2.72	0.42
1:AA:282:A:C4	1:AA:283:C:C5	3.07	0.42
1:AA:290:C:C6	1:AA:290:C:C3'	3.02	0.42
1:AA:299:G:N1	1:AA:300:A:C2	2.87	0.42
1:AA:310:G:H2'	1:AA:311:C:H6	1.83	0.42
1:AA:362:G:H3'	15:AO:34:ARG:NH2	2.34	0.42
1:AA:390:C:O2'	1:AA:391:G:H5'	2.19	0.42
1:AA:419:C:C4	1:AA:420:U:C5	3.07	0.42
1:AA:495:A:H1'	1:AA:496:A:C8	2.54	0.42
1:AA:519:C:C2'	1:AA:520:A:C5'	2.88	0.42
1:AA:570:G:C2	1:AA:873:A:C2	3.07	0.42
1:AA:628:G:C2'	1:AA:629:G:O4'	2.66	0.42
1:AA:606:G:H2'	1:AA:631:G:H22	1.83	0.42
1:AA:662:G:N2	1:AA:663:A:C2	2.87	0.42
1:AA:64:G:H5'	1:AA:66:G:OP1	2.19	0.42
1:AA:712:A:H2'	1:AA:713:G:H8	1.84	0.42
1:AA:739:C:C2	1:AA:740:U:C6	3.07	0.42
1:AA:741:G:C4	1:AA:742:G:C8	3.07	0.42
1:AA:798:G:C6	1:AA:799:G:C8	3.07	0.42
1:AA:834:C:N4	1:AA:853:G:O6	2.52	0.42
1:AA:854:G:C6	1:AA:855:G:N7	2.86	0.42
1:AA:872:A:C2	1:AA:874:G:N7	2.87	0.42
1:AA:922:G:H2'	1:AA:923:A:H8	1.82	0.42
2:AC:44:A:C2	2:AC:45:G:H1'	2.54	0.42
5:AE:207:ALA:O	5:AE:208:ILE:C	2.56	0.42
5:AE:84:GLU:HB2	5:AE:215:LEU:HD13	2.01	0.42
6:AF:124:ILE:CG1	6:AF:130:VAL:HG13	2.49	0.42
6:AF:184:TYR:C	6:AF:184:TYR:CD2	2.91	0.42
7:AG:64:LEU:HD13	7:AG:64:LEU:C	2.39	0.42
9:AI:95:GLU:H	9:AI:96:PRO:CD	2.31	0.42
11:AK:29:SER:O	11:AK:32:LYS:NZ	2.52	0.42
11:AK:32:LYS:O	11:AK:33:GLU:C	2.57	0.42
11:AK:60:ARG:CG	11:AK:61:VAL:N	2.80	0.42
11:AK:88:LYS:HZ3	11:AK:88:LYS:CB	2.32	0.42
11:AK:8:ASP:HA	11:AK:11:THR:HG1	1.84	0.42
11:AK:96:GLY:O	11:AK:97:VAL:CG1	2.67	0.42
12:AL:104:ARG:O	12:AL:105:ASP:HB2	2.18	0.42
12:AL:19:LEU:CD2	12:AL:59:PHE:HD2	2.25	0.42
13:AM:11:PHE:O	13:AM:12:ASP:C	2.57	0.42
13:AM:3:LYS:HG3	13:AM:75:ILE:HA	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:102:GLY:CA	14:AN:105:VAL:HG23	2.43	0.42
14:AN:126:ARG:C	14:AN:128:ALA:H	2.22	0.42
1:AA:689:C:P	14:AN:27:ASN:HD21	2.41	0.42
14:AN:44:SER:HB2	14:AN:47:VAL:HG23	2.01	0.42
16:AP:19:LEU:HD21	16:AP:30:ALA:HA	2.00	0.42
16:AP:14:ARG:HB2	16:AP:42:ALA:O	2.19	0.42
16:AP:24:GLY:O	16:AP:66:LEU:HD13	2.19	0.42
16:AP:82:MET:SD	16:AP:93:ARG:CG	3.00	0.42
16:AP:84:ILE:HG13	16:AP:86:CYS:SG	2.59	0.42
17:AQ:45:ARG:HH22	17:AQ:49:HIS:CD2	2.32	0.42
21:AU:73:ALA:HB3	21:AU:79:LEU:HD21	2.00	0.42
23:AW:89:ARG:O	23:AW:92:LEU:N	2.52	0.42
49:B1:25:ARG:O	49:B1:28:MET:N	2.51	0.42
52:B4:20:ARG:C	52:B4:23:HIS:HB2	2.38	0.42
52:B4:25:LEU:O	52:B4:26:THR:CG2	2.67	0.42
25:BA:1264:G:O2'	52:B4:7:PRO:HG3	2.18	0.42
52:B4:8:LYS:O	52:B4:9:LYS:HG3	2.18	0.42
53:B5:20:ASN:CG	53:B5:42:TRP:CD1	2.90	0.42
55:B7:41:ILE:HG12	55:B7:41:ILE:H	1.68	0.42
25:BA:1139:G:C2'	25:BA:1143:A:H5''	2.44	0.42
25:BA:1243:G:N3	25:BA:1243:G:H2'	2.33	0.42
25:BA:1307:A:H4'	25:BA:1379:A:H61	1.72	0.42
25:BA:1334:G:H2'	25:BA:1335:U:H6	1.83	0.42
25:BA:1338:G:H2'	25:BA:1339:G:H5'	2.00	0.42
25:BA:1429:G:N3	25:BA:1568:G:C2	2.87	0.42
25:BA:1451:C:H5''	25:BA:1453:A:O2'	2.18	0.42
25:BA:1540:G:C3'	25:BA:1541:U:H5'	2.48	0.42
25:BA:1602:U:C6	25:BA:1602:U:C3'	3.01	0.42
25:BA:1617:C:P	25:BA:1617:C:O4'	2.76	0.42
25:BA:1657:C:OP1	29:BE:133:LYS:O	2.36	0.42
25:BA:1673:U:C5	25:BA:1675:C:C6	3.06	0.42
25:BA:1702:G:N2	25:BA:1703:G:N9	2.67	0.42
25:BA:1778:U:O4	25:BA:1785:A:C6	2.72	0.42
25:BA:1789:A:N3	25:BA:1790:C:H1'	2.32	0.42
25:BA:1853:A:C2'	25:BA:1854:A:O4'	2.67	0.42
25:BA:1944:U:H2'	25:BA:1945:G:OP1	2.18	0.42
25:BA:1970:A:H1'	25:BA:1972:A:C1'	2.49	0.42
25:BA:1997:G:N1	25:BA:1998:G:C5	2.86	0.42
25:BA:1326:U:C5	25:BA:2010:G:N2	2.83	0.42
25:BA:562:U:OP2	25:BA:2036:C:H4'	2.18	0.42
25:BA:2132:U:O2	25:BA:2134:A:C6	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2210:G:C8	28:BD:68:LYS:CE	2.92	0.42
25:BA:2285:C:H4'	25:BA:2288:A:C6	2.54	0.42
25:BA:2349:G:C3'	25:BA:2350:C:C5'	2.97	0.42
25:BA:2368:C:O2'	25:BA:2369:A:H5'	2.19	0.42
25:BA:2392:A:OP1	55:B7:32:LEU:CD1	2.66	0.42
25:BA:239:U:O2'	25:BA:240:G:C5'	2.66	0.42
25:BA:2404:C:H2'	25:BA:2405:G:C8	2.53	0.42
25:BA:2408:U:H2'	25:BA:2409:G:H8	1.75	0.42
25:BA:2488:A:C6	25:BA:2489:G:C6	3.07	0.42
25:BA:248:G:H21	25:BA:2431:U:C5'	2.32	0.42
25:BA:2555:U:H5	25:BA:2556:C:C2	2.37	0.42
25:BA:2589:A:C2	25:BA:2606:C:C4	3.07	0.42
25:BA:2623:G:C2	25:BA:2624:G:C8	3.07	0.42
25:BA:2644:G:O5'	25:BA:2644:G:C8	2.71	0.42
25:BA:2645:G:H4'	25:BA:2732:G:HO2'	1.84	0.42
25:BA:2658:C:C2'	25:BA:2659:G:C5'	2.78	0.42
25:BA:2675:A:N1	25:BA:2732:G:N2	2.65	0.42
25:BA:2740:A:C6	25:BA:2741:A:N6	2.87	0.42
25:BA:2752:C:C2'	25:BA:2752:C:O2	2.63	0.42
25:BA:2808:U:H3'	25:BA:2809:A:H5''	2.00	0.42
25:BA:2693:A:O2'	25:BA:2848:G:H5''	2.18	0.42
25:BA:273(F):C:O2'	25:BA:363(A):A:C2	2.72	0.42
25:BA:389:G:H2'	25:BA:389:G:N3	2.34	0.42
25:BA:391:G:C5'	25:BA:412:A:H4'	2.49	0.42
25:BA:445:C:N4	25:BA:446:G:C6	2.87	0.42
25:BA:455:C:H5'	25:BA:472:A:C2	2.52	0.42
25:BA:49:A:C2	25:BA:120:U:N3	2.84	0.42
25:BA:475:U:C4'	25:BA:510:C:OP2	2.61	0.42
25:BA:513:A:N1	25:BA:514:A:C8	2.87	0.42
25:BA:532:A:OP1	42:BT:28:ARG:NH2	2.52	0.42
25:BA:589:C:H6	25:BA:589:C:O5'	2.01	0.42
25:BA:598:G:C5'	37:BO:12:ALA:HB3	2.49	0.42
25:BA:666:G:C6	25:BA:667:U:C4	3.07	0.42
25:BA:678:C:H2'	25:BA:679:C:H5'	2.01	0.42
25:BA:681:G:O2'	25:BA:682:G:O5'	2.32	0.42
25:BA:698:C:H5'	25:BA:698:C:C6	2.41	0.42
25:BA:749:C:C6	25:BA:749:C:C3'	3.02	0.42
25:BA:801:G:P	30:BF:57:VAL:HA	2.59	0.42
25:BA:824:A:C3'	25:BA:825:C:C6	3.01	0.42
25:BA:840:C:O2	25:BA:939:G:C2	2.71	0.42
25:BA:930:U:O4'	25:BA:930:U:O2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:936:C:O2'	25:BA:937:U:O5'	2.24	0.42
26:BB:106:G:C2	26:BB:107:U:C5	3.07	0.42
26:BB:112:G:C5'	26:BB:113:C:OP2	2.66	0.42
26:BB:74:U:H3'	26:BB:75:G:O4'	2.18	0.42
27:BC:113:VAL:CG1	27:BC:138:PRO:HD3	2.49	0.42
27:BC:153:ILE:HA	27:BC:156:ILE:CD1	2.44	0.42
27:BC:163:PHE:HB3	27:BC:171:ILE:HD11	2.01	0.42
27:BC:59:ARG:NH2	27:BC:164:ARG:HH11	2.09	0.42
28:BD:265:PRO:O	28:BD:269:PHE:HE1	2.02	0.42
28:BD:183:ARG:HB2	28:BD:268:ARG:HB2	2.00	0.42
28:BD:34:VAL:CG2	28:BD:94:LEU:CD2	2.97	0.42
28:BD:63:ARG:HB3	28:BD:88:ARG:NH2	2.34	0.42
29:BE:103:ASP:HA	29:BE:168:MET:O	2.19	0.42
29:BE:81:ILE:HG22	29:BE:82:ARG:CG	2.41	0.42
30:BF:18:ARG:HD3	30:BF:20:LEU:HD21	2.00	0.42
30:BF:51:THR:O	30:BF:92:PRO:CG	2.66	0.42
31:BG:17:PRO:CA	31:BG:20:ILE:HB	2.49	0.42
31:BG:34:LEU:O	31:BG:100:TRP:CH2	2.72	0.42
31:BG:47:LYS:HZ1	31:BG:73:ALA:CB	2.28	0.42
32:BH:103:LEU:H	32:BH:115:VAL:CG1	2.29	0.42
32:BH:154:PRO:O	32:BH:155:SER:HB3	2.18	0.42
33:BK:32:PRO:CD	33:BK:33:ARG:HD2	2.48	0.42
33:BK:37:VAL:CG1	33:BK:43:ASN:OD1	2.67	0.42
33:BK:7:GLU:HB2	33:BK:35:LEU:CD1	2.47	0.42
35:BM:35:ARG:HB3	35:BM:36:GLY:H	1.61	0.42
25:BA:2674:G:C5'	36:BN:26:LYS:HD2	2.48	0.42
36:BN:39:ILE:C	36:BN:59:LYS:HZ1	2.22	0.42
36:BN:88:ASN:HB2	36:BN:89:ASN:H	1.41	0.42
36:BN:85:VAL:C	36:BN:93:PRO:HD3	2.35	0.42
37:BO:55:ARG:NH2	37:BO:55:ARG:HB3	2.17	0.42
38:BP:28:ALA:O	38:BP:29:PHE:HD2	2.02	0.42
38:BP:58:PHE:O	38:BP:59:ARG:C	2.56	0.42
38:BP:74:TYR:CE1	38:BP:94:VAL:HG22	2.54	0.42
39:BQ:95:THR:HG22	39:BQ:96:ARG:N	2.32	0.42
40:BR:58:LEU:C	40:BR:60:GLY:H	2.23	0.42
25:BA:2376:A:N1	40:BR:87:PHE:CZ	2.87	0.42
42:BT:93:LYS:HA	42:BT:93:LYS:CE	2.49	0.42
43:BU:56:SER:C	43:BU:57:VAL:HG23	2.39	0.42
44:BV:51:LEU:HD13	44:BV:51:LEU:H	1.84	0.42
46:BX:13:VAL:HB	46:BX:73:ARG:CZ	2.49	0.42
47:BY:125:LEU:HB3	47:BY:127:LYS:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BB:75:G:N3	47:BY:85:HIS:CE1	2.86	0.42
48:BZ:44:ARG:O	48:BZ:77:ARG:HG3	2.19	0.42
48:BZ:48:GLY:CA	48:BZ:80:HIS:CE1	3.02	0.42
33:BK:79:ILE:HA	33:BK:80:PRO:HD3	1.58	0.42
34:BL:115:LEU:HD13	34:BL:115:LEU:O	2.19	0.42
34:BL:132:ARG:O	34:BL:134:MET:N	2.52	0.42
34:BL:8:VAL:O	34:BL:10:LEU:CD2	2.67	0.42
10:AJ:129:GLU:CD	10:AJ:131:LYS:CD	2.87	0.42
22:AV:29:ARG:CG	22:AV:30:LEU:H	2.20	0.42
25:BA:380:U:H2'	25:BA:381:G:H8	1.84	0.42
25:BA:128:C:C2	25:BA:129:C:C5	3.07	0.42
1:AA:1091:U:O2	1:AA:1093:A:C8	2.72	0.42
1:AA:1176:A:N6	1:AA:1177:G:N1	2.66	0.42
1:AA:949:A:C2	1:AA:1233:G:N3	2.87	0.42
1:AA:1239:A:H1'	1:AA:1241:G:N9	2.33	0.42
1:AA:1278:U:OP1	1:AA:1281:U:O4	2.38	0.42
1:AA:1309:G:C5	1:AA:1329:A:C2	3.07	0.42
1:AA:1439:C:N3	1:AA:1440:C:N4	2.68	0.42
1:AA:265:G:C2'	1:AA:266:G:H5'	2.48	0.42
1:AA:323:U:O5'	1:AA:323:U:H6	2.02	0.42
1:AA:376:G:O2'	1:AA:377:G:H5'	2.19	0.42
1:AA:426:G:C2'	1:AA:427:U:O5'	2.67	0.42
1:AA:553:A:C2'	1:AA:554:C:O4'	2.67	0.42
1:AA:579:G:C2'	1:AA:580:U:C5'	2.94	0.42
1:AA:708:C:H4'	14:AN:37:GLY:HA3	2.01	0.42
1:AA:735:C:O2'	21:AU:75:ILE:CD1	2.64	0.42
1:AA:959:A:H2	1:AA:1221:G:N3	2.17	0.42
2:AC:74:C:H5''	25:BA:2602:A:C3'	2.34	0.42
5:AE:118:LEU:CD1	5:AE:145:LEU:HD23	2.41	0.42
5:AE:51:LEU:H	5:AE:51:LEU:HG	1.41	0.42
6:AF:126:ARG:HB2	6:AF:126:ARG:HE	1.62	0.42
6:AF:16:ARG:HH12	6:AF:184:TYR:N	2.16	0.42
6:AF:25:GLY:O	6:AF:29:TYR:HB2	2.19	0.42
6:AF:48:TYR:O	6:AF:51:GLY:N	2.51	0.42
7:AG:131:ARG:HB2	7:AG:132:ARG:H	1.55	0.42
7:AG:194:LEU:HD22	7:AG:194:LEU:N	2.33	0.42
8:AH:108:ALA:O	8:AH:109:ILE:O	2.37	0.42
8:AH:76:ILE:HG21	8:AH:142:LEU:CG	2.49	0.42
9:AI:39:LYS:HB2	9:AI:62:TRP:CZ3	2.54	0.42
9:AI:39:LYS:O	9:AI:63:TYR:HA	2.19	0.42
10:AJ:90:GLU:N	10:AJ:90:GLU:CD	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:98:LYS:HA	11:AK:100:ILE:HD11	2.02	0.42
11:AK:104:ARG:O	11:AK:105:ARG:C	2.57	0.42
11:AK:102:ARG:NH2	11:AK:106:GLY:N	2.67	0.42
11:AK:40:ALA:C	11:AK:42:GLU:N	2.72	0.42
12:AL:47:LEU:HD13	12:AL:50:LEU:HB3	2.01	0.42
12:AL:51:ARG:CZ	12:AL:51:ARG:CB	2.96	0.42
13:AM:29:ARG:O	13:AM:30:SER:CB	2.68	0.42
14:AN:84:VAL:HG21	14:AN:110:ASP:HA	2.02	0.42
15:AO:27:LEU:HD21	15:AO:62:SER:OG	2.18	0.42
15:AO:97:ARG:C	15:AO:98:TYR:CD1	2.93	0.42
16:AP:15:VAL:HG11	16:AP:34:LEU:CD2	2.50	0.42
16:AP:23:TYR:N	16:AP:67:GLU:OE1	2.45	0.42
16:AP:70:LEU:CD2	16:AP:70:LEU:C	2.88	0.42
18:AR:54:ARG:HH21	18:AR:58:MET:CE	2.32	0.42
18:AR:62:GLN:CD	18:AR:65:ARG:NH2	2.72	0.42
19:AS:10:GLY:CA	19:AS:14:ASN:OD1	2.67	0.42
20:AT:103:GLY:O	20:AT:104:LYS:O	2.37	0.42
20:AT:43:LEU:HD12	20:AT:69:LYS:CG	2.44	0.42
21:AU:28:GLU:O	21:AU:28:GLU:OE1	2.36	0.42
23:AW:25:ARG:HB2	23:AW:25:ARG:CZ	2.49	0.42
23:AW:85:MET:HE2	23:AW:85:MET:HB3	1.90	0.42
50:B2:35:ARG:NH1	50:B2:47:VAL:CG2	2.66	0.42
50:B2:9:VAL:HG22	50:B2:53:LEU:HA	2.00	0.42
51:B3:1:MET:O	51:B3:2:LYS:CD	2.67	0.42
55:B7:23:VAL:HG13	55:B7:24:ALA:H	1.84	0.42
55:B7:51:ALA:O	55:B7:53:PRO:CG	2.67	0.42
55:B7:61:LEU:O	55:B7:62:LEU:HG	2.19	0.42
25:BA:1143:A:O2'	25:BA:1144:G:P	2.77	0.42
25:BA:1181:C:N4	25:BA:1182:A:H62	2.17	0.42
25:BA:1375:C:C2'	25:BA:1376:C:O5'	2.68	0.42
25:BA:1471:A:C8	25:BA:1519:G:O6	2.72	0.42
25:BA:1475:G:C2'	25:BA:1476:C:O5'	2.67	0.42
25:BA:1519:G:N3	25:BA:1520:U:H1'	2.34	0.42
25:BA:1419:A:C5	25:BA:1578:U:N3	2.87	0.42
25:BA:1583:A:OP2	25:BA:1586:A:H4'	2.19	0.42
25:BA:1612:C:O2'	54:B6:5:TRP:HB3	2.19	0.42
25:BA:1272:A:C6	25:BA:1618:A:N3	2.87	0.42
25:BA:1697:G:OP2	25:BA:1698:A:C3'	2.57	0.42
25:BA:1702:G:N2	25:BA:1703:G:H1'	2.33	0.42
25:BA:1704:G:N2	25:BA:1705:G:H1'	2.33	0.42
25:BA:1879:C:H2'	25:BA:1880:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1906:G:N9	25:BA:1929:G:N7	2.67	0.42
25:BA:2015:A:N7	52:B4:6:VAL:CB	2.82	0.42
25:BA:2023:G:C2	25:BA:2041:U:C2	3.07	0.42
25:BA:571:A:C1'	25:BA:2030:A:H62	2.32	0.42
25:BA:2079:U:H2'	25:BA:2080:G:C8	2.54	0.42
25:BA:2112:G:N1	25:BA:2113:U:C2	2.87	0.42
25:BA:2113:U:H6	25:BA:2113:U:O5'	2.02	0.42
25:BA:2228:G:C5	25:BA:2229:C:C2	3.08	0.42
25:BA:2286:A:H61	53:B5:32:ASN:HA	1.83	0.42
25:BA:2287:A:OP1	25:BA:2287:A:H4'	2.19	0.42
25:BA:2297:C:C4	25:BA:2333:A:N6	2.85	0.42
25:BA:2297:C:C5	25:BA:2318:G:N2	2.87	0.42
25:BA:2395:C:C4	25:BA:2396:G:N7	2.87	0.42
25:BA:2474:C:C2'	25:BA:2475:C:H5'	2.48	0.42
25:BA:2510:C:C4	25:BA:2511:U:C4	3.07	0.42
25:BA:2578:G:N2	25:BA:2579:C:C5	2.87	0.42
25:BA:2647:U:H2'	25:BA:2648:C:H6	1.76	0.42
25:BA:2657:A:C4	25:BA:2665:A:C6	3.07	0.42
25:BA:2682:U:O2'	25:BA:2683:C:P	2.76	0.42
25:BA:270(E):G:OP2	25:BA:270(E):G:H3'	2.19	0.42
25:BA:270(X):G:N3	25:BA:270(Y):G:C4'	2.82	0.42
25:BA:2733:A:C8	25:BA:2734:A:C8	3.06	0.42
25:BA:2754:U:O2	25:BA:2756:U:OP1	2.37	0.42
25:BA:2767:C:C4	25:BA:2768:C:C5	3.08	0.42
25:BA:26:G:C6	25:BA:27:G:N2	2.84	0.42
25:BA:295:G:N2	25:BA:296:C:C2	2.87	0.42
25:BA:308:G:N2	25:BA:329:G:C2	2.85	0.42
25:BA:311:A:O3'	25:BA:312:G:C8	2.72	0.42
25:BA:312:G:N3	25:BA:313:C:C5	2.87	0.42
25:BA:352:G:N2	25:BA:353:G:H1'	2.34	0.42
25:BA:461:C:C2'	25:BA:462:C:O5'	2.68	0.42
25:BA:543:C:H2'	25:BA:544:C:C5	2.55	0.42
25:BA:558:G:H2'	25:BA:559:G:C5'	2.48	0.42
25:BA:616:A:H5''	25:BA:617:G:P	2.59	0.42
25:BA:61:G:H5'	49:B1:45:ILE:HD11	1.98	0.42
25:BA:625:G:N7	37:BO:104:GLY:HA3	2.33	0.42
25:BA:642:G:C3'	25:BA:642:G:C8	2.98	0.42
25:BA:64:A:C2	25:BA:65:C:C1'	3.02	0.42
25:BA:680:G:C2	25:BA:681:G:C5	3.07	0.42
25:BA:742:G:C2	25:BA:743:G:C5	3.06	0.42
25:BA:756:C:O2'	25:BA:757:U:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:782:A:C5'	25:BA:783:A:OP1	2.65	0.42
25:BA:864:G:H1'	25:BA:914:C:H42	1.83	0.42
25:BA:886:C:H4'	25:BA:887:A:N9	2.33	0.42
25:BA:938:G:N2	25:BA:939:G:C4	2.87	0.42
25:BA:942:G:N1	25:BA:943:U:O4	2.52	0.42
25:BA:956:G:P	38:BP:77:LYS:HE2	2.59	0.42
25:BA:959:A:H2'	25:BA:960:A:O5'	2.19	0.42
25:BA:973:A:H8	25:BA:973:A:H3'	1.83	0.42
25:BA:977:G:C2	25:BA:978:G:C2	3.07	0.42
25:BA:974(A):C:O2	25:BA:989:G:N2	2.52	0.42
25:BA:990:A:N6	25:BA:1186:G:H1'	2.35	0.42
25:BA:993:G:C5	25:BA:994:C:N4	2.87	0.42
26:BB:48:A:C2	26:BB:49:C:C2	3.06	0.42
26:BB:60:C:C2'	26:BB:61:G:H8	2.22	0.42
26:BB:84:C:H2'	26:BB:85:G:H8	1.83	0.42
27:BC:22:ILE:HG23	27:BC:189:ILE:CB	2.49	0.42
27:BC:209:LEU:C	27:BC:209:LEU:HD23	2.39	0.42
28:BD:109:ASP:HA	28:BD:196:VAL:O	2.19	0.42
28:BD:131:LEU:HG	28:BD:135:PHE:HD2	1.85	0.42
28:BD:232:PRO:CG	28:BD:247:ALA:CA	2.78	0.42
25:BA:1569:A:O2'	28:BD:39:LYS:CE	2.67	0.42
28:BD:46:GLN:O	28:BD:48:ARG:N	2.52	0.42
29:BE:13:ARG:HE	29:BE:21:VAL:C	2.23	0.42
29:BE:51:PHE:HE1	29:BE:76:ARG:N	2.04	0.42
29:BE:53:PRO:O	29:BE:54:GLN:C	2.57	0.42
25:BA:2636:U:C5'	29:BE:79:ARG:HB3	2.49	0.42
30:BF:116:ASP:OD1	30:BF:119:ARG:HD2	2.19	0.42
31:BG:26:GLN:NE2	31:BG:31:VAL:CG2	2.81	0.42
2:AC:56:C:C2'	31:BG:82:LEU:HA	2.45	0.42
31:BG:87:PRO:O	31:BG:88:ILE:CG1	2.67	0.42
32:BH:106:THR:OG1	32:BH:111:HIS:HB3	2.18	0.42
32:BH:37:VAL:HA	32:BH:41:MET:HE2	2.01	0.42
32:BH:5:GLY:O	32:BH:6:ARG:NH1	2.52	0.42
32:BH:69:ARG:CG	32:BH:70:THR:H	2.26	0.42
35:BM:99:LEU:CD1	35:BM:100:GLU:N	2.75	0.42
36:BN:113:LYS:HD2	36:BN:113:LYS:HA	1.78	0.42
36:BN:77:ILE:CA	36:BN:78:ARG:HH12	2.32	0.42
36:BN:92:GLU:OE2	36:BN:114:ILE:CB	2.57	0.42
37:BO:97:PRO:HA	37:BO:102:ARG:HE	1.82	0.42
38:BP:25:ASP:HB2	38:BP:102:VAL:CB	2.48	0.42
38:BP:12:GLN:HA	38:BP:12:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:134:ARG:HD2	38:BP:135:ASP:N	2.34	0.42
38:BP:32:TYR:OH	38:BP:108:GLY:HA2	2.18	0.42
38:BP:51:ARG:NH2	38:BP:55:VAL:HG21	2.35	0.42
38:BP:15:GLY:HA2	38:BP:73:PRO:CG	2.49	0.42
39:BQ:28:LEU:C	39:BQ:28:LEU:HD22	2.39	0.42
39:BQ:63:ARG:HH22	39:BQ:77:ARG:CG	2.32	0.42
41:BS:103:ARG:HE	41:BS:103:ARG:HB2	1.14	0.42
42:BT:27:LEU:C	42:BT:29:SER:N	2.70	0.42
25:BA:1249:U:C4'	42:BT:4:ALA:HB1	2.49	0.42
43:BU:23:GLU:CA	43:BU:93:GLU:CB	2.97	0.42
43:BU:62:LEU:HA	43:BU:99:ILE:HG13	2.01	0.42
44:BV:70:TYR:CE2	44:BV:110:LYS:HB2	2.49	0.42
44:BV:21:VAL:O	44:BV:22:ASP:C	2.57	0.42
46:BX:19:LYS:CB	46:BX:21:LYS:HE3	2.50	0.42
46:BX:60:PHE:CD2	46:BX:60:PHE:C	2.91	0.42
47:BY:30:ASN:OD1	47:BY:33:LEU:CD1	2.64	0.42
48:BZ:46:LYS:HA	48:BZ:47:PRO:HD3	1.73	0.42
48:BZ:72:ARG:CZ	48:BZ:75:LEU:HD22	2.49	0.42
33:BK:76:THR:CG2	33:BK:141:LYS:HE2	2.48	0.42
33:BK:95:LYS:HD3	33:BK:95:LYS:C	2.39	0.42
25:BA:1085:A:C1'	25:BA:1086:A:H4'	2.22	0.42
25:BA:1079:C:O2'	34:BL:132:ARG:NH1	2.52	0.42
1:AA:999:U:C4	1:AA:1042:G:N1	2.88	0.42
28:BD:273:ARG:CA	28:BD:273:ARG:NH1	2.83	0.42
34:BL:44:ALA:O	34:BL:45:THR:C	2.58	0.42
1:AA:1542:U:C2'	1:AA:1542:U:O2	2.68	0.42
1:AA:1498:U:C4	4:A1:17:U:H5"	2.55	0.42
1:AA:1108:G:C5	1:AA:1109:C:C4	3.07	0.42
1:AA:1128:C:C6	1:AA:1139:G:O6	2.72	0.42
1:AA:1155:G:H2'	1:AA:1156:G:C8	2.54	0.42
1:AA:1174:G:H2'	1:AA:1175:G:C5'	2.46	0.42
1:AA:1224:G:H1	1:AA:1362(A):C:N4	2.17	0.42
1:AA:1224:G:O2'	1:AA:1225:A:P	2.76	0.42
1:AA:1254:C:OP1	13:AM:45:ARG:CD	2.67	0.42
1:AA:1150:U:C4'	1:AA:1280:A:N1	2.82	0.42
1:AA:1285:A:C1'	1:AA:1286:A:N7	2.82	0.42
1:AA:1286:A:N3	24:AX:18:TYR:CZ	2.87	0.42
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.53	0.42
1:AA:1317:C:N4	1:AA:1318:A:C2	2.87	0.42
1:AA:1315:U:C2'	1:AA:1360:A:N3	2.81	0.42
1:AA:1401:G:N7	1:AA:1402:C:C6	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:141:A:N3	1:AA:182:U:O2	2.52	0.42
1:AA:1433:A:H62	1:AA:1467:G:N2	2.13	0.42
1:AA:1488:G:C5	1:AA:1489:G:N7	2.87	0.42
1:AA:20:U:N3	1:AA:21:G:C4	2.87	0.42
1:AA:238:G:OP1	20:AT:25:ARG:NH1	2.52	0.42
1:AA:251:G:N2	1:AA:266:G:O6	2.51	0.42
1:AA:294:U:H2'	1:AA:295:C:C6	2.53	0.42
1:AA:482:A:H2	1:AA:483:C:C1'	2.30	0.42
1:AA:503:C:C2	1:AA:504:C:C6	3.08	0.42
1:AA:503:C:O2'	1:AA:510:A:N1	2.47	0.42
1:AA:549:C:H2'	1:AA:550:G:O5'	2.18	0.42
1:AA:53:A:C6	1:AA:54:C:C5	3.07	0.42
1:AA:554:C:O2	1:AA:554:C:H2'	2.18	0.42
1:AA:57:G:C5	1:AA:58:C:C5	3.06	0.42
1:AA:593:G:C5	1:AA:594:G:C8	3.07	0.42
1:AA:619:U:H3	7:AG:135:LEU:CD2	2.30	0.42
1:AA:658:G:C2	1:AA:659:U:C2	3.08	0.42
1:AA:739:C:O2	1:AA:739:C:H2'	2.20	0.42
1:AA:825:G:C2'	1:AA:826:C:O5'	2.67	0.42
1:AA:888:G:C2	1:AA:909:A:N6	2.86	0.42
3:AD:14:A:H2'	3:AD:14:A:N3	2.34	0.42
3:AD:41:G:N3	3:AD:42:C:H1'	2.35	0.42
3:AD:57:G:C8	3:AD:57:G:OP2	2.73	0.42
5:AE:222:ILE:HD12	5:AE:223:ILE:H	1.82	0.42
5:AE:59:GLU:N	5:AE:221:LEU:HD11	2.34	0.42
5:AE:68:ILE:HD12	5:AE:70:PHE:CE1	2.54	0.42
6:AF:27:LYS:HB2	6:AF:27:LYS:HE3	1.89	0.42
6:AF:49:SER:C	6:AF:51:GLY:N	2.72	0.42
7:AG:148:VAL:HG21	7:AG:162:LEU:HD21	2.02	0.42
7:AG:185:PHE:CD2	7:AG:186:LEU:N	2.84	0.42
8:AH:50:GLU:O	8:AH:51:VAL:C	2.58	0.42
8:AH:6:PHE:CE2	8:AH:35:GLY:HA2	2.54	0.42
9:AI:19:LEU:CD2	9:AI:23:LYS:HZ3	2.20	0.42
10:AJ:102:ARG:O	10:AJ:103:TRP:C	2.57	0.42
10:AJ:72:ARG:N	10:AJ:91:VAL:HG21	2.35	0.42
11:AK:26:VAL:O	11:AK:58:TYR:HD1	2.03	0.42
11:AK:6:ILE:CG2	11:AK:7:ALA:N	2.59	0.42
5:AE:181:PHE:CE1	11:AK:71:GLY:CA	3.02	0.42
11:AK:79:VAL:O	11:AK:81:HIS:N	2.46	0.42
13:AM:75:ILE:CG2	13:AM:76:ASN:H	2.31	0.42
13:AM:79:ARG:HH22	13:AM:82:ILE:HG21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:9:ARG:HH11	13:AM:9:ARG:CB	2.32	0.42
15:AO:8:ASN:O	15:AO:9:GLN:C	2.56	0.42
16:AP:16:ASP:HB3	16:AP:34:LEU:HD11	2.00	0.42
16:AP:14:ARG:CB	16:AP:44:ARG:HH11	2.29	0.42
1:AA:1358:U:H5''	17:AQ:34:TYR:HA	2.01	0.42
50:B2:31:LEU:CD1	50:B2:32:GLN:OE1	2.67	0.42
51:B3:27:THR:CG2	51:B3:28:LYS:H	2.01	0.42
52:B4:8:LYS:HA	52:B4:8:LYS:HD2	1.94	0.42
54:B6:28:ARG:CA	54:B6:31:LEU:HG	2.50	0.42
55:B7:17:THR:C	55:B7:19:SER:N	2.72	0.42
25:BA:1107:G:C2'	25:BA:1108:U:C5'	2.97	0.42
25:BA:1142(A):A:C2'	25:BA:1142(A):A:N3	2.82	0.42
25:BA:1156:A:OP1	42:BT:55:ARG:NH2	2.52	0.42
25:BA:1178:C:N4	25:BA:1179:C:H41	2.17	0.42
25:BA:1228:G:C3'	25:BA:1228:G:C8	3.03	0.42
25:BA:1264:G:O6	25:BA:1265:A:C5	2.72	0.42
25:BA:1284:A:O2'	25:BA:1285:G:H5'	2.19	0.42
25:BA:1307:A:O2'	25:BA:1308:A:H5'	2.20	0.42
25:BA:1326:U:N3	25:BA:1327:C:C6	2.87	0.42
25:BA:1412:A:N6	25:BA:1591:G:O6	2.52	0.42
25:BA:1472:A:C6	25:BA:1473:G:O6	2.72	0.42
25:BA:1494:A:N6	25:BA:1495:A:C5	2.87	0.42
25:BA:1528:A:N7	25:BA:1529:A:C2	2.87	0.42
25:BA:163:U:N3	25:BA:164:U:C4	2.87	0.42
25:BA:1691:C:O2	25:BA:1691:C:C2'	2.67	0.42
25:BA:1712:C:C2'	25:BA:1716:U:C6	2.89	0.42
25:BA:1761:C:H3'	25:BA:1761:C:H6	1.84	0.42
25:BA:1770:G:C6	25:BA:1983:C:C4	3.07	0.42
25:BA:1801:G:N7	25:BA:2207:C:O2'	2.50	0.42
25:BA:1935:G:H1'	25:BA:1964:G:C2	2.52	0.42
25:BA:1947:C:H2'	25:BA:1948:G:H5'	2.01	0.42
25:BA:197:A:O4'	25:BA:2068:U:N3	2.53	0.42
25:BA:1980:G:O2'	25:BA:1981:A:OP1	2.37	0.42
25:BA:2052:G:C5	25:BA:2053:G:C8	3.07	0.42
25:BA:2207:C:C2'	25:BA:2208:U:H5''	2.48	0.42
25:BA:2211:G:H2'	25:BA:2211:G:N3	2.35	0.42
25:BA:2262:U:C2	25:BA:2263:C:C5	3.07	0.42
25:BA:2266:A:H5''	25:BA:2267:A:C5'	2.48	0.42
25:BA:2285:C:O2	25:BA:2384:G:C2	2.72	0.42
25:BA:237:C:C2	25:BA:238:C:C6	3.07	0.42
25:BA:2259:G:C5	25:BA:2427:C:N4	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2065:C:O2'	25:BA:2449:U:N3	2.43	0.42
25:BA:2512:C:H3'	25:BA:2513:G:H5''	2.01	0.42
25:BA:2561:A:O2'	36:BN:40:VAL:HG21	2.18	0.42
25:BA:2635:C:H1'	29:BE:36:ARG:NH1	2.33	0.42
25:BA:2660:A:C2'	25:BA:2661:G:H5'	2.50	0.42
25:BA:2721:A:C2	25:BA:2873:A:C6	3.07	0.42
25:BA:2742:C:H5''	56:B8:35:ARG:NH1	2.32	0.42
25:BA:2772:C:C2'	25:BA:2772:C:O2	2.63	0.42
25:BA:2848:G:C4'	41:BS:99:LEU:HD11	2.47	0.42
25:BA:385:C:C6	25:BA:385:C:O5'	2.62	0.42
25:BA:455:C:O2'	25:BA:456:C:C5'	2.68	0.42
25:BA:482:A:N7	25:BA:506:G:C6	2.86	0.42
25:BA:514:A:C2	25:BA:515:A:N9	2.87	0.42
25:BA:593:G:N3	25:BA:593:G:H2'	2.34	0.42
25:BA:668:G:C2	25:BA:670:A:C6	3.08	0.42
25:BA:686:G:H5'	25:BA:687:C:OP2	2.19	0.42
25:BA:776:G:C6	25:BA:2072:G:OP1	2.72	0.42
25:BA:824:A:C5	25:BA:825:C:N4	2.87	0.42
25:BA:949:C:H2'	25:BA:950:G:C8	2.55	0.42
26:BB:104:A:C3'	26:BB:105:G:H5'	2.49	0.42
26:BB:73:A:H61	26:BB:104:A:H1'	1.80	0.42
27:BC:134:ARG:HG3	27:BC:134:ARG:HH11	1.84	0.42
27:BC:18:LYS:HZ2	27:BC:20:TYR:HA	1.83	0.42
25:BA:2130:U:P	27:BC:6:ARG:CB	3.08	0.42
27:BC:6:ARG:CD	27:BC:6:ARG:C	2.87	0.42
28:BD:131:LEU:CG	28:BD:135:PHE:HB2	2.49	0.42
28:BD:245:PRO:O	28:BD:252:TRP:CH2	2.72	0.42
28:BD:259:THR:CG2	28:BD:260:ARG:NH1	2.80	0.42
28:BD:63:ARG:NH1	28:BD:86:PRO:CD	2.82	0.42
25:BA:1567:A:N1	28:BD:85:ASP:CA	2.82	0.42
29:BE:106:GLY:N	29:BE:196:VAL:HG22	2.34	0.42
29:BE:33:VAL:HG21	29:BE:77:ILE:HD11	2.01	0.42
29:BE:43:GLY:O	29:BE:45:THR:HG22	2.19	0.42
29:BE:59:VAL:HB	29:BE:62:PRO:CD	2.48	0.42
30:BF:154:VAL:CG1	30:BF:191:ARG:HG2	2.49	0.42
30:BF:160:ASN:HB2	30:BF:163:VAL:CG2	2.50	0.42
25:BA:2303:G:O2'	31:BG:132:ASN:ND2	2.52	0.42
31:BG:96:ARG:HB3	31:BG:97:ASP:H	1.32	0.42
32:BH:9:ILE:O	32:BH:50:VAL:O	2.37	0.42
33:BK:14:ASP:C	33:BK:15:VAL:O	2.54	0.42
35:BM:48:MET:HB3	35:BM:49:GLY:H	1.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:66:LYS:HE2	35:BM:66:LYS:HB3	1.81	0.42
36:BN:42:SER:HA	36:BN:56:ASP:HA	2.01	0.42
37:BO:135:LEU:O	37:BO:139:LYS:HG3	2.19	0.42
38:BP:56:ARG:O	38:BP:57:HIS:C	2.57	0.42
39:BQ:57:ARG:HE	39:BQ:62:ALA:CB	2.25	0.42
39:BQ:70:LEU:HD12	39:BQ:75:LEU:HD22	2.00	0.42
41:BS:107:ASP:CB	41:BS:108:ARG:NH1	2.82	0.42
41:BS:34:VAL:O	41:BS:36:GLU:N	2.52	0.42
43:BU:4:ILE:N	43:BU:4:ILE:CD1	2.75	0.42
43:BU:88:ARG:O	43:BU:90:PRO:CD	2.54	0.42
45:BW:17:ALA:O	45:BW:21:PHE:CE2	2.73	0.42
46:BX:14:LEU:HD13	46:BX:20:TYR:CA	2.49	0.42
47:BY:125:LEU:HD22	47:BY:127:LYS:CE	2.48	0.42
47:BY:103:ARG:CB	47:BY:138:GLU:HG2	2.42	0.42
47:BY:172:ALA:O	47:BY:173:ALA:HB2	2.19	0.42
48:BZ:72:ARG:CZ	48:BZ:75:LEU:CD2	2.96	0.42
25:BA:1102:C:C2'	25:BA:1102:C:O2	2.52	0.42
34:BL:94:GLU:HG2	34:BL:96:VAL:CG2	2.48	0.42
1:AA:1026:G:C8	1:AA:1027:C:C5	3.06	0.42
1:AA:1028(B):C:H2'	1:AA:1029:G:O5'	2.19	0.42
1:AA:998:G:C6	1:AA:998(A):C:C5	3.07	0.42
1:AA:988:G:H4'	1:AA:1014:A:H61	1.84	0.42
1:AA:1066:C:H2'	1:AA:1067:A:C8	2.54	0.42
1:AA:1152:A:C6	1:AA:1153:C:C5	3.07	0.42
1:AA:1188:A:C4	1:AA:1189:C:C5	3.07	0.42
1:AA:1260:C:P	1:AA:1284:C:H4'	2.60	0.42
1:AA:1236:A:C5'	1:AA:1305:G:OP1	2.59	0.42
1:AA:1346:A:H62	1:AA:1374:A:H3'	1.77	0.42
1:AA:1459:C:P	23:AW:27:LYS:NZ	2.84	0.42
1:AA:174:C:C5	1:AA:175:C:C5	3.07	0.42
1:AA:295:C:H2'	1:AA:296:U:C6	2.53	0.42
1:AA:338:A:N3	1:AA:339:C:C6	2.87	0.42
1:AA:374:A:C6	1:AA:375:U:C4	3.08	0.42
1:AA:374:A:O5'	1:AA:374:A:C8	2.73	0.42
1:AA:411:A:C5	1:AA:429:U:H5	2.36	0.42
1:AA:420:U:O3'	1:AA:421:U:C5	2.73	0.42
1:AA:432:A:C3'	1:AA:432:A:C8	3.02	0.42
1:AA:448:A:H2'	1:AA:449:C:C5	2.54	0.42
1:AA:590:C:O2'	1:AA:591:U:H5'	2.19	0.42
1:AA:622:A:C8	1:AA:623:C:C6	3.06	0.42
1:AA:652:U:H5'	1:AA:653:A:OP1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:686:U:OP1	1:AA:686:U:H4'	2.18	0.42
1:AA:6:G:H1	8:AH:98:THR:HG23	1.83	0.42
1:AA:724:G:H21	1:AA:725:G:C1'	2.33	0.42
1:AA:756:C:O4'	11:AK:1:MET:HE2	2.17	0.42
1:AA:828:A:N7	1:AA:829:G:C4	2.87	0.42
1:AA:873:A:P	1:AA:873:A:O4'	2.77	0.42
1:AA:969:A:C2	1:AA:970:C:C2	3.08	0.42
2:AC:20:U:H3'	2:AC:20:U:C2	2.54	0.42
2:AC:19:G:C5'	2:AC:20:U:OP2	2.65	0.42
2:AC:61:C:C2	2:AC:62:C:C5	3.07	0.42
3:AD:18:G:H2'	3:AD:19:G:O5'	2.18	0.42
5:AE:76:GLN:NE2	5:AE:206:ASP:O	2.52	0.42
6:AF:57:ILE:HG12	6:AF:66:VAL:HG22	1.99	0.42
7:AG:145:GLU:C	7:AG:146:ILE:HG13	2.39	0.42
7:AG:14:ARG:HH11	7:AG:59:ARG:HH21	1.66	0.42
7:AG:29:PRO:O	7:AG:30:LYS:CB	2.67	0.42
7:AG:31:CYS:C	7:AG:33:MET:N	2.73	0.42
8:AH:107:ARG:O	8:AH:111:GLU:HG3	2.19	0.42
8:AH:15:ARG:CZ	8:AH:15:ARG:HB3	2.48	0.42
9:AI:14:LEU:CD1	9:AI:18:GLN:CB	2.96	0.42
9:AI:14:LEU:HG	9:AI:19:LEU:HD12	2.00	0.42
10:AJ:50:ILE:HA	10:AJ:54:THR:HG22	1.99	0.42
10:AJ:62:PHE:HB3	10:AJ:63:LYS:CE	2.49	0.42
10:AJ:70:LYS:O	10:AJ:71:PRO:O	2.37	0.42
1:AA:642:A:C6	11:AK:115:SER:N	2.88	0.42
11:AK:15:ASN:O	11:AK:16:ALA:C	2.57	0.42
12:AL:33:PHE:CZ	12:AL:46:ALA:O	2.73	0.42
12:AL:78:LYS:O	12:AL:81:ILE:HB	2.19	0.42
1:AA:552:U:H1'	15:AO:32:PHE:HE1	1.84	0.42
15:AO:42:THR:CG2	15:AO:42:THR:O	2.66	0.42
15:AO:61:THR:C	15:AO:62:SER:HG	2.21	0.42
16:AP:20:THR:HG22	16:AP:20:THR:O	2.19	0.42
16:AP:9:ILE:N	16:AP:10:PRO:CD	2.82	0.42
17:AQ:14:PRO:O	17:AQ:16:PHE:O	2.37	0.42
18:AR:17:ARG:NH2	18:AR:77:ARG:HG3	2.33	0.42
18:AR:87:ILE:O	18:AR:88:ARG:O	2.38	0.42
19:AS:4:ILE:HA	19:AS:20:VAL:O	2.19	0.42
19:AS:54:GLU:O	19:AS:57:ARG:N	2.52	0.42
19:AS:8:ARG:C	19:AS:9:PHE:HD2	2.23	0.42
21:AU:34:TYR:HA	21:AU:69:THR:CG2	2.49	0.42
21:AU:34:TYR:HB3	21:AU:69:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:25:THR:CG2	21:AU:42:ARG:NH2	2.73	0.42
22:AV:11:VAL:CG1	22:AV:16:LEU:HD11	2.49	0.42
23:AW:16:HIS:O	23:AW:20:LEU:HG	2.19	0.42
23:AW:27:LYS:O	23:AW:28:ALA:C	2.58	0.42
23:AW:53:LEU:O	23:AW:56:MET:HB3	2.20	0.42
51:B3:57:GLU:C	51:B3:61:ARG:HH11	2.23	0.42
53:B5:11:LEU:HD13	55:B7:35:GLN:NE2	2.27	0.42
25:BA:1025:G:N3	25:BA:1025:G:C3'	2.81	0.42
25:BA:1107:G:C8	25:BA:1107:G:O5'	2.72	0.42
25:BA:1137:G:C8	25:BA:1138:G:C8	3.07	0.42
25:BA:1020:A:C2	25:BA:1140:C:H2'	2.49	0.42
25:BA:1020:A:H2	25:BA:1140:C:HO2'	1.67	0.42
25:BA:1158:C:H4'	50:B2:32:GLN:HG2	1.99	0.42
25:BA:1222:C:C2	25:BA:1223:C:C6	3.07	0.42
25:BA:1242:A:C2	37:BO:6:LEU:HD21	2.54	0.42
25:BA:1264:G:H3'	25:BA:1264:G:C8	2.54	0.42
25:BA:1273:U:H5''	25:BA:1646:C:N4	2.30	0.42
25:BA:1385:G:C5	25:BA:1386:C:C5	3.08	0.42
25:BA:1391:U:H3	25:BA:1393:A:H3'	1.83	0.42
25:BA:1406:U:HO2'	25:BA:1407:C:P	2.37	0.42
25:BA:1412:A:N6	25:BA:1591:G:C6	2.87	0.42
25:BA:122:G:P	25:BA:149:A:O2'	2.77	0.42
25:BA:1632:A:C6	25:BA:1633:G:N1	2.86	0.42
25:BA:1664:A:O2'	36:BN:66:LYS:NZ	2.41	0.42
25:BA:1674:G:N3	25:BA:1676:A:N6	2.67	0.42
25:BA:172:C:O5'	25:BA:172:C:C6	2.72	0.42
25:BA:1861:G:H4'	27:BC:205:LYS:CE	2.48	0.42
25:BA:1936:A:C8	25:BA:1940:U:N3	2.87	0.42
25:BA:200:U:C3'	25:BA:200:U:H6	2.31	0.42
25:BA:2033:A:H8	25:BA:2033:A:O5'	2.03	0.42
25:BA:2038:G:H2'	25:BA:2039:C:O4'	2.20	0.42
25:BA:2087:G:C2'	25:BA:2088:G:H5'	2.49	0.42
25:BA:2105:C:N3	25:BA:2106:G:N7	2.67	0.42
25:BA:2114:A:H2'	25:BA:2115:G:C4'	2.50	0.42
25:BA:2162:G:N2	25:BA:2163:C:H1'	2.34	0.42
25:BA:2190:G:N1	25:BA:2191:G:N7	2.68	0.42
25:BA:2352:A:C2'	25:BA:2353:G:O4'	2.52	0.42
25:BA:2422:A:H5''	25:BA:2423:U:OP1	2.18	0.42
25:BA:2246:G:C4	25:BA:2426:A:N3	2.88	0.42
25:BA:2434:A:C2'	25:BA:2435:A:H5''	2.49	0.42
25:BA:250:G:O6	25:BA:251:A:N6	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2525:G:C2	25:BA:2526:G:C5	3.07	0.42
25:BA:2616:C:C2	25:BA:2617:C:C5	3.07	0.42
25:BA:2631:G:N2	25:BA:2788:C:C2	2.86	0.42
25:BA:270(E):G:C2	25:BA:270(V):G:N2	2.87	0.42
25:BA:2717:G:C2'	25:BA:2718:G:O5'	2.67	0.42
25:BA:2733:A:C2	29:BE:204:ALA:HA	2.54	0.42
25:BA:292:C:C6	25:BA:293:U:N3	2.87	0.42
25:BA:298:G:H8	25:BA:298:G:P	2.41	0.42
25:BA:342:G:C4	25:BA:343:C:C6	3.07	0.42
25:BA:349:G:O4'	25:BA:349:G:OP2	2.36	0.42
25:BA:447:A:C5	25:BA:473:G:C5	3.08	0.42
25:BA:511:U:O4	25:BA:512:G:N3	2.52	0.42
25:BA:560:C:H2'	25:BA:561:G:O5'	2.19	0.42
25:BA:586:A:OP1	30:BF:89:VAL:HG23	2.18	0.42
25:BA:59:U:C3'	25:BA:60:G:H5''	2.50	0.42
25:BA:663:G:H5'	37:BO:18:ARG:CD	2.50	0.42
25:BA:685:A:H2'	25:BA:686:G:OP2	2.17	0.42
25:BA:708:C:H6	25:BA:708:C:O5'	2.02	0.42
25:BA:852:G:C4	25:BA:853:G:C8	3.08	0.42
25:BA:879:G:O6	25:BA:899:A:C5	2.72	0.42
25:BA:898:C:C4	25:BA:899:A:C8	3.08	0.42
25:BA:947:G:N3	25:BA:984:A:H2	2.17	0.42
25:BA:958:U:O2'	25:BA:959:A:C5'	2.68	0.42
25:BA:960:A:C8	25:BA:962:G:C8	3.07	0.42
27:BC:49:ILE:CG1	27:BC:50:ASP:N	2.81	0.42
27:BC:73:ARG:CB	27:BC:93:TYR:HE2	2.32	0.42
28:BD:111:LEU:CD1	28:BD:115:GLN:NE2	2.82	0.42
28:BD:196:VAL:HG12	28:BD:198:ASN:H	1.85	0.42
25:BA:1491:G:C4'	28:BD:99:ASP:HB2	2.47	0.42
28:BD:9:TYR:CE2	28:BD:201:HIS:N	2.87	0.42
29:BE:136:ARG:NH1	29:BE:137:HIS:C	2.73	0.42
29:BE:47:VAL:HG11	29:BE:77:ILE:HD11	1.96	0.42
30:BF:7:TYR:HE2	30:BF:119:ARG:HG2	1.84	0.42
30:BF:167:ALA:O	30:BF:173:VAL:CG2	2.67	0.42
25:BA:1204:A:H61	30:BF:187:VAL:HG23	1.81	0.42
30:BF:40:GLN:CB	30:BF:184:TYR:OH	2.67	0.42
30:BF:38:ARG:CA	30:BF:41:LEU:HD23	2.42	0.42
30:BF:84:VAL:HG12	30:BF:85:GLY:N	2.35	0.42
30:BF:53:THR:HG23	30:BF:88:VAL:O	2.20	0.42
31:BG:114:ILE:HG12	31:BG:140:ILE:CD1	2.49	0.42
31:BG:115:ARG:NH2	31:BG:115:ARG:CG	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:78:SER:CB	31:BG:82:LEU:CB	2.98	0.42
31:BG:60:LEU:CD2	31:BG:90:LEU:HD11	2.49	0.42
32:BH:120:GLY:O	32:BH:135:GLY:CA	2.66	0.42
35:BM:126:PRO:O	35:BM:127:ASP:OD2	2.38	0.42
35:BM:87:LEU:N	35:BM:87:LEU:CD2	2.82	0.42
38:BP:111:GLU:HB3	38:BP:112:GLU:H	1.53	0.42
38:BP:28:ALA:CA	38:BP:104:PHE:CD2	2.98	0.42
38:BP:34:LEU:CD2	38:BP:118:LEU:HB3	2.50	0.42
38:BP:43:THR:O	38:BP:44:ALA:C	2.58	0.42
38:BP:72:LYS:CB	38:BP:73:PRO:CD	2.95	0.42
38:BP:6:ARG:O	38:BP:7:MET:CE	2.67	0.42
38:BP:97:VAL:C	38:BP:98:LYS:HE3	2.39	0.42
40:BR:107:GLU:O	40:BR:108:GLY:C	2.57	0.42
40:BR:26:LEU:HD13	40:BR:26:LEU:C	2.40	0.42
40:BR:97:ARG:O	40:BR:100:ALA:CB	2.53	0.42
41:BS:102:ILE:HG12	41:BS:102:ILE:H	1.55	0.42
41:BS:13:ARG:HG2	41:BS:14:TYR:N	2.34	0.42
36:BN:106:LEU:HD22	41:BS:38:ASN:HD21	1.83	0.42
41:BS:82:LEU:O	41:BS:84:GLN:N	2.52	0.42
42:BT:61:TRP:C	42:BT:63:VAL:N	2.71	0.42
42:BT:47:TYR:OH	43:BU:76:LYS:C	2.57	0.42
46:BX:97:ARG:NH1	46:BX:101:LYS:HG2	2.35	0.42
46:BX:72:VAL:HG11	46:BX:96:ILE:CG2	2.39	0.42
46:BX:12:THR:C	46:BX:73:ARG:NE	2.72	0.42
47:BY:118:GLN:NE2	47:BY:119:GLU:C	2.72	0.42
47:BY:56:VAL:CG2	47:BY:135:GLU:CD	2.88	0.42
47:BY:37:VAL:C	47:BY:38:TYR:HD2	2.23	0.42
48:BZ:70:GLN:O	48:BZ:72:ARG:N	2.52	0.42
33:BK:114:LEU:HB3	33:BK:130:TYR:HD2	1.85	0.42
1:AA:1003:G:N7	1:AA:1004:A:C2	2.86	0.42
1:AA:82:U:C6	1:AA:85:U:OP2	2.72	0.42
1:AA:89:U:C2	1:AA:90:C:C5	3.07	0.42
9:AI:28:ARG:O	9:AI:32:ASN:CG	2.58	0.42
3:AD:26:A:C2	3:AD:27:U:C6	3.07	0.42
4:A1:4:A:H2'	4:A1:5:A:O4'	2.19	0.42
1:AA:457:C:C6	1:AA:457:C:C3'	3.02	0.42
2:AC:23:C:O2	2:AC:23:C:C2'	2.66	0.42
1:AA:1085:U:H5'	1:AA:1094:G:C2	2.53	0.42
1:AA:1104:G:H2'	1:AA:1105:A:C8	2.54	0.42
1:AA:1161:C:C2	1:AA:1162:C:C6	3.07	0.42
1:AA:1191:A:H5''	6:AF:4:LYS:HZ3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1230:C:OP1	2:AC:30:G:H4'	2.20	0.42
1:AA:1270:C:H2'	1:AA:1271:G:O5'	2.20	0.42
1:AA:1126:U:C5'	1:AA:1281:U:O4'	2.68	0.42
1:AA:1316:G:N3	1:AA:1318:A:P	2.92	0.42
1:AA:133:U:H6	1:AA:133:U:C5'	2.32	0.42
1:AA:1410:G:C4	1:AA:1411:C:C5	3.07	0.42
1:AA:1423:G:O2'	1:AA:1424:C:O4'	2.33	0.42
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.82	0.42
1:AA:151:A:N6	1:AA:152:A:N3	2.67	0.42
1:AA:815:A:C4	1:AA:1529:G:N1	2.88	0.42
1:AA:153:C:C2'	1:AA:154:C:O5'	2.67	0.42
1:AA:173:U:H5'	1:AA:197:A:C2'	2.50	0.42
1:AA:188:U:OP2	1:AA:188:U:C6	2.73	0.42
1:AA:310:G:OP2	19:AS:27:LYS:HE2	2.20	0.42
1:AA:371:G:N2	1:AA:372:C:C6	2.87	0.42
1:AA:425:G:H21	1:AA:426:G:C1'	2.32	0.42
1:AA:458:C:O5'	1:AA:458:C:H6	2.01	0.42
1:AA:532:A:H5''	6:AF:161:GLU:OE2	2.18	0.42
1:AA:587:G:N2	1:AA:755:G:C8	2.88	0.42
1:AA:627:G:H2'	1:AA:628:G:C8	2.49	0.42
1:AA:693:G:H8	1:AA:693:G:O5'	2.02	0.42
1:AA:787:A:H2'	1:AA:788:U:H5'	2.02	0.42
1:AA:834:C:C4	1:AA:853:G:C6	3.07	0.42
1:AA:872:A:O2'	1:AA:873:A:P	2.76	0.42
2:AC:44:A:C2'	2:AC:45:G:C5'	2.93	0.42
2:AC:76:A:N7	25:BA:2585:U:C1'	2.72	0.42
5:AE:88:ALA:CB	5:AE:222:ILE:HD11	2.48	0.42
6:AF:131:ARG:HH12	8:AH:51:VAL:H	1.65	0.42
6:AF:40:ARG:HG3	6:AF:57:ILE:CD1	2.50	0.42
7:AG:129:ASN:ND2	7:AG:145:GLU:CG	2.82	0.42
7:AG:172:PRO:HG3	7:AG:193:ASP:HB3	1.97	0.42
10:AJ:107:ALA:CB	10:AJ:123:GLU:OE1	2.67	0.42
10:AJ:14:PRO:HB3	10:AJ:20:ASP:N	2.35	0.42
10:AJ:52:GLU:O	10:AJ:53:LYS:C	2.57	0.42
11:AK:44:PHE:O	11:AK:64:LYS:HD3	2.19	0.42
12:AL:5:TYR:CE1	12:AL:18:PHE:CZ	3.07	0.42
12:AL:49:PRO:HD2	12:AL:78:LYS:HG2	2.01	0.42
12:AL:79:LEU:HD13	12:AL:101:PHE:HB2	2.01	0.42
12:AL:52:ALA:CB	12:AL:85:LEU:HD21	2.50	0.42
6:AF:23:TYR:CD1	13:AM:11:PHE:N	2.88	0.42
13:AM:81:THR:HG22	13:AM:85:LEU:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:691:G:O6	14:AN:52:GLY:O	2.37	0.42
14:AN:63:LEU:O	14:AN:64:ALA:C	2.57	0.42
15:AO:102:ARG:NH2	15:AO:109:GLY:C	2.73	0.42
15:AO:5:PRO:O	15:AO:9:GLN:OE1	2.38	0.42
1:AA:1228:C:H4'	16:AP:115:LYS:C	2.38	0.42
13:AM:50:ILE:H	17:AQ:41:ARG:HD2	1.85	0.42
17:AQ:51:GLY:C	17:AQ:53:LEU:H	2.23	0.42
1:AA:254:G:O4'	20:AT:15:MET:HG2	2.19	0.42
21:AU:29:PHE:CZ	21:AU:39:VAL:CG1	3.03	0.42
21:AU:43:PHE:CD1	21:AU:43:PHE:N	2.88	0.42
24:AX:13:ILE:CG2	24:AX:14:TRP:N	2.82	0.42
25:BA:1158:C:C4'	50:B2:32:GLN:HB2	2.43	0.42
51:B3:22:ILE:HG22	51:B3:26:SER:CB	2.49	0.42
53:B5:19:ARG:O	53:B5:20:ASN:HB2	2.19	0.42
25:BA:2285:C:C5	53:B5:27:LYS:NZ	2.82	0.42
54:B6:19:ARG:H	54:B6:19:ARG:HD2	1.84	0.42
56:B8:15:LYS:HD3	56:B8:17:ILE:HD11	2.01	0.42
25:BA:1258:C:O2'	25:BA:1259:G:H5'	2.19	0.42
25:BA:1280:G:O2'	25:BA:1281:G:H5'	2.19	0.42
25:BA:1347:G:O2'	25:BA:1348:G:H5'	2.20	0.42
25:BA:1353:A:C5	25:BA:1378:A:C6	3.08	0.42
25:BA:1364:G:N2	25:BA:1367:A:OP2	2.51	0.42
25:BA:1504:C:C2	25:BA:1505:C:C5	3.07	0.42
25:BA:1535:U:C5	25:BA:1536:A:C5	3.08	0.42
25:BA:1666:G:N3	25:BA:1666:G:H2'	2.34	0.42
25:BA:1690:A:N1	25:BA:1691:C:H1'	2.34	0.42
25:BA:1797:C:C2'	25:BA:1798:U:O5'	2.67	0.42
25:BA:1925:C:C2'	25:BA:1926:U:O5'	2.67	0.42
25:BA:1940:U:C2'	25:BA:1940:U:O2	2.64	0.42
25:BA:2015:A:H8	25:BA:2016:U:H6	1.63	0.42
25:BA:2056:G:C5	25:BA:2577:A:C5	3.07	0.42
25:BA:2063:C:O2	25:BA:2450:A:N1	2.52	0.42
25:BA:2135:A:C4'	25:BA:2136:C:H5	2.33	0.42
25:BA:2216:G:H21	28:BD:150:LYS:HZ3	1.67	0.42
25:BA:2216:G:H2'	25:BA:2217:G:O4'	2.18	0.42
25:BA:2224:G:O2'	25:BA:2226:C:C6	2.69	0.42
25:BA:2273:A:C2'	25:BA:2274:A:H5'	2.50	0.42
25:BA:2335:A:C2'	25:BA:2337:G:C8	3.01	0.42
25:BA:2350:C:H2'	25:BA:2351:G:H8	1.85	0.42
25:BA:234:C:H2'	25:BA:235:U:C5'	2.49	0.42
25:BA:2345:G:N2	25:BA:2381:C:C2'	2.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2385:C:C4	25:BA:2386:C:C5	3.07	0.42
25:BA:2387:U:H1'	48:BZ:41:ARG:HH22	1.81	0.42
25:BA:2491:U:H2'	25:BA:2492:U:H5'	2.02	0.42
25:BA:2531:A:N3	25:BA:2658:C:O2'	2.52	0.42
25:BA:2589:A:H2'	25:BA:2590:A:O4'	2.19	0.42
25:BA:270(L):U:O2	25:BA:270(L):U:C2'	2.67	0.42
25:BA:2711:A:N6	25:BA:2714:G:C2	2.87	0.42
25:BA:2715:C:C2	25:BA:2716:U:C5	3.07	0.42
25:BA:2777:G:H5''	25:BA:2778:A:C5'	2.49	0.42
25:BA:2781:A:C4'	25:BA:2781:A:C8	3.02	0.42
25:BA:2792:G:C2	25:BA:2793:G:C6	3.08	0.42
25:BA:354:G:C5	25:BA:355:G:N7	2.87	0.42
25:BA:410:G:O6	25:BA:418:G:C6	2.72	0.42
25:BA:422:A:C2	25:BA:423:A:N3	2.88	0.42
25:BA:479:A:O2'	25:BA:480:A:C5'	2.68	0.42
25:BA:607:U:C6	25:BA:607:U:H5''	2.55	0.42
25:BA:259:G:O2'	25:BA:621:A:C4'	2.67	0.42
25:BA:650:C:C2'	25:BA:651:G:H5'	2.38	0.42
25:BA:69:C:C6	25:BA:69:C:OP2	2.72	0.42
25:BA:776:G:N3	25:BA:793:A:N6	2.68	0.42
25:BA:806:C:C6	25:BA:806:C:C3'	3.02	0.42
25:BA:804:A:O3'	25:BA:806:C:N4	2.52	0.42
26:BB:10:C:N4	26:BB:11:C:N4	2.68	0.42
26:BB:13:A:C2'	26:BB:14:U:H5''	2.32	0.42
26:BB:96:G:C4	26:BB:97:G:C8	3.07	0.42
27:BC:29:VAL:CG2	27:BC:216:THR:HG22	2.49	0.42
25:BA:2178:C:C5'	27:BC:46:LYS:HB3	2.48	0.42
27:BC:87:GLU:HG2	27:BC:94:VAL:CB	2.48	0.42
27:BC:84:LYS:O	27:BC:88:GLU:CB	2.68	0.42
27:BC:87:GLU:CG	27:BC:94:VAL:HG21	2.49	0.42
28:BD:208:LYS:HE2	28:BD:211:ARG:CG	2.49	0.42
25:BA:1774:C:N4	28:BD:208:LYS:HG3	2.33	0.42
28:BD:233:HIS:O	28:BD:234:GLY:O	2.36	0.42
28:BD:253:GLN:C	28:BD:253:GLN:CD	2.78	0.42
28:BD:182:LEU:HD12	28:BD:270:ILE:HG12	2.01	0.42
28:BD:91:ARG:HH22	28:BD:198:ASN:CG	2.23	0.42
29:BE:121:ASN:HB3	29:BE:122:PHE:H	1.31	0.42
29:BE:179:GLU:O	29:BE:181:LEU:CG	2.67	0.42
30:BF:122:LYS:CE	30:BF:192:LEU:HB3	2.50	0.42
25:BA:673:C:H4'	30:BF:82:ILE:CD1	2.48	0.42
31:BG:138:GLN:OE1	31:BG:152:LEU:O	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:6:ARG:HB3	32:BH:65:HIS:CD2	2.28	0.42
32:BH:77:LYS:HE3	32:BH:77:LYS:HB3	1.62	0.42
32:BH:93:GLY:HA2	32:BH:95:ARG:HH22	1.85	0.42
33:BK:26:ALA:O	33:BK:27:ARG:C	2.56	0.42
35:BM:19:GLU:CB	35:BM:56:ASN:HB3	2.49	0.42
35:BM:7:LYS:CD	35:BM:8:GLN:H	2.31	0.42
36:BN:85:VAL:CB	36:BN:93:PRO:HG3	2.34	0.42
37:BO:124:LYS:HE3	37:BO:141:ALA:HB3	2.01	0.42
37:BO:15:ARG:O	37:BO:16:ARG:O	2.37	0.42
25:BA:833:U:C1'	37:BO:48:PRO:HD2	2.50	0.42
38:BP:124:LYS:HB3	38:BP:124:LYS:HZ3	1.84	0.42
38:BP:137:TYR:HD2	38:BP:138:ASP:H	1.67	0.42
38:BP:32:TYR:O	38:BP:34:LEU:HD11	2.19	0.42
38:BP:50:ALA:H	38:BP:124:LYS:HZ1	1.66	0.42
39:BQ:56:LYS:HA	39:BQ:84:ALA:HB1	2.00	0.42
39:BQ:64:ARG:NH1	39:BQ:65:LEU:HB2	2.34	0.42
39:BQ:79:LEU:CD2	39:BQ:80:PHE:HD1	2.33	0.42
40:BR:20:ARG:HA	40:BR:20:ARG:HD3	1.81	0.42
40:BR:38:GLN:NE2	40:BR:47:THR:HG21	2.27	0.42
41:BS:53:ARG:HH12	41:BS:103:ARG:HG3	1.84	0.42
25:BA:533:G:C5'	42:BT:24:TYR:HD2	2.30	0.42
25:BA:535:C:HO2'	42:BT:53:ARG:HD2	1.81	0.42
43:BU:26:ASP:C	43:BU:29:PRO:HD2	2.40	0.42
43:BU:66:ARG:HG3	43:BU:67:GLY:N	2.35	0.42
43:BU:68:LYS:HZ2	43:BU:95:LEU:CD1	2.26	0.42
44:BV:103:ILE:CD1	44:BV:103:ILE:H	2.32	0.42
45:BW:47:PHE:CE2	45:BW:89:ILE:HG12	2.55	0.42
47:BY:110:GLY:CA	47:BY:113:ALA:HB3	2.50	0.42
47:BY:102:LEU:CD1	47:BY:125:LEU:HD12	2.49	0.42
47:BY:107:THR:HB	47:BY:142:SER:HA	2.00	0.42
47:BY:171:ILE:HG13	47:BY:172:ALA:N	2.34	0.42
33:BK:94:ALA:HB2	33:BK:116:LEU:HB2	2.01	0.42
33:BK:128:LEU:CB	33:BK:130:TYR:OH	2.68	0.42
33:BK:63:ALA:HB1	33:BK:67:ARG:NH2	2.35	0.42
25:BA:1083:U:O2	25:BA:1083:U:C2'	2.68	0.42
34:BL:51:ALA:HB1	34:BL:80:LYS:CG	2.48	0.42
1:AA:216:G:C2	1:AA:217:C:C4	3.08	0.42
15:AO:16:GLU:O	15:AO:17:LYS:HB3	2.18	0.42
3:AD:29:C:C2'	3:AD:30:G:O5'	2.67	0.42
4:A1:8:A:C8	4:A1:8:A:H5''	2.55	0.42
1:AA:105:G:C2'	1:AA:106:C:C5	3.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1064:G:N2	1:AA:1191:A:N7	2.67	0.42
1:AA:1231:G:C4'	16:AP:126:LYS:NZ	2.82	0.42
1:AA:1349:A:C2'	1:AA:1350:A:H5'	2.50	0.42
1:AA:1350:A:OP2	12:AL:118:LYS:CE	2.56	0.42
1:AA:1361:G:C3'	1:AA:1361:G:C8	3.02	0.42
1:AA:1488:G:H2'	1:AA:1489:G:H8	1.84	0.42
1:AA:1515:C:HO2'	1:AA:1516:G:C5'	2.33	0.42
1:AA:102:G:H1'	1:AA:152:A:H4'	2.01	0.42
1:AA:186(B):C:C2	1:AA:186(C):G:C8	3.07	0.42
1:AA:192:U:C1'	23:AW:103:GLY:CA	2.88	0.42
1:AA:257:G:H2'	1:AA:258:G:H5'	2.02	0.42
1:AA:299:G:C6	1:AA:300:A:N6	2.87	0.42
1:AA:327:A:C2	1:AA:329:A:N3	2.87	0.42
1:AA:363:A:H2'	1:AA:364:A:H5'	2.00	0.42
1:AA:446:G:C2'	1:AA:447:G:H5'	2.49	0.42
1:AA:448:A:C8	1:AA:487:A:N1	2.87	0.42
1:AA:453:A:C6	1:AA:454:C:N4	2.88	0.42
1:AA:468:A:C5	1:AA:474:G:N7	2.88	0.42
1:AA:629:G:C2	1:AA:630:G:C8	3.08	0.42
1:AA:687:A:N6	1:AA:703:G:H1'	2.10	0.42
1:AA:774:G:H3'	1:AA:775:G:H8	1.85	0.42
1:AA:832:C:C4	1:AA:833:U:C4	3.08	0.42
1:AA:833:U:H6	1:AA:833:U:O5'	2.03	0.42
1:AA:854:G:N1	1:AA:855:G:C5	2.88	0.42
1:AA:897:C:H2'	1:AA:898:G:H8	1.85	0.42
1:AA:937:A:N7	1:AA:938:A:N7	2.68	0.42
1:AA:946:A:C2	1:AA:947:G:C6	3.08	0.42
1:AA:979:C:O2	1:AA:980:C:O4'	2.37	0.42
2:AC:53:G:H2'	2:AC:54:U:H6	1.83	0.42
2:AC:75:C:C2'	2:AC:76:A:O3'	2.68	0.42
3:AD:50:G:C6	3:AD:65:U:N3	2.87	0.42
5:AE:72:GLY:CA	5:AE:165:VAL:HG11	2.49	0.42
5:AE:187:LEU:HA	5:AE:201:ILE:HB	2.01	0.42
6:AF:107:GLN:OE1	6:AF:111:LEU:CD2	2.68	0.42
6:AF:40:ARG:C	6:AF:43:LEU:HB3	2.38	0.42
7:AG:128:VAL:HG22	7:AG:133:VAL:HB	2.00	0.42
8:AH:122:GLU:N	8:AH:122:GLU:CD	2.72	0.42
8:AH:89:ILE:CD1	8:AH:120:THR:OG1	2.68	0.42
8:AH:89:ILE:O	8:AH:89:ILE:CG2	2.68	0.42
9:AI:14:LEU:HD11	9:AI:19:LEU:CA	2.48	0.42
9:AI:14:LEU:HD13	9:AI:18:GLN:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:36:ARG:NH1	9:AI:66:GLU:HG2	2.35	0.42
10:AJ:22:LEU:CD1	10:AJ:97:GLN:NE2	2.83	0.42
11:AK:14:ARG:CA	11:AK:17:THR:OG1	2.68	0.42
11:AK:30:ARG:O	11:AK:31:PHE:C	2.57	0.42
11:AK:51:VAL:HG21	11:AK:60:ARG:HB2	2.01	0.42
12:AL:17:VAL:HA	12:AL:63:ILE:CG2	2.42	0.42
12:AL:3:GLN:HG3	12:AL:20:ARG:CG	2.49	0.42
12:AL:79:LEU:HD22	12:AL:101:PHE:CD2	2.55	0.42
1:AA:1280:A:C4	13:AM:41:PRO:HG3	2.55	0.42
18:AR:41:GLU:HA	18:AR:44:LYS:HD2	2.00	0.42
1:AA:668:G:O2'	18:AR:46:HIS:CE1	2.72	0.42
19:AS:6:LEU:CB	19:AS:17:TYR:HB3	2.44	0.42
20:AT:18:THR:CG2	20:AT:19:VAL:N	2.83	0.42
20:AT:29:HIS:CA	20:AT:36:ILE:HD12	2.48	0.42
1:AA:280:C:H1'	20:AT:38:ARG:CD	2.50	0.42
21:AU:40:LEU:O	21:AU:42:ARG:N	2.52	0.42
24:AX:3:LYS:HD2	24:AX:14:TRP:CB	2.48	0.42
49:B1:22:GLU:OE1	49:B1:22:GLU:CA	2.67	0.42
25:BA:76:C:P	49:B1:50:ARG:HE	2.42	0.42
25:BA:2815:C:H4'	52:B4:42:PRO:HG3	2.02	0.42
25:BA:2056:G:N2	52:B4:4:HIS:CA	2.83	0.42
53:B5:16:CYS:HB3	53:B5:49:HIS:ND1	2.33	0.42
25:BA:1613:G:O4'	54:B6:3:ARG:NE	2.52	0.42
55:B7:33:ASN:C	55:B7:34:TRP:CG	2.92	0.42
55:B7:3:LYS:CG	55:B7:4:MET:N	2.82	0.42
25:BA:1019:U:C3'	25:BA:1020:A:H5'	2.49	0.42
25:BA:1217:C:H2'	25:BA:1218:C:C6	2.55	0.42
25:BA:1233:C:H2'	25:BA:1234:U:O5'	2.19	0.42
25:BA:1264:G:C3'	25:BA:1264:G:C8	3.03	0.42
25:BA:1267:U:C2'	25:BA:1268:A:O5'	2.67	0.42
25:BA:1299:G:C4'	25:BA:1301:A:C4	3.01	0.42
25:BA:1343:G:N3	25:BA:1384:A:C2	2.88	0.42
25:BA:137(A):G:N1	25:BA:138:G:O6	2.52	0.42
25:BA:1491:G:N2	25:BA:1500:G:H1'	2.35	0.42
25:BA:151:C:C4	25:BA:175:G:O6	2.73	0.42
25:BA:1534:G:N2	25:BA:1537:C:N4	2.63	0.42
25:BA:1526:G:N2	25:BA:1546:C:N4	2.68	0.42
25:BA:1651:G:H5''	25:BA:1652:A:P	2.59	0.42
25:BA:1655:A:H2'	25:BA:1656:C:H6	1.84	0.42
25:BA:1661:G:C6	25:BA:1662:C:C4	3.07	0.42
25:BA:1668:A:H1'	25:BA:1669:A:C2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:742:G:C4'	25:BA:1675:C:O2'	2.63	0.42
25:BA:1800:C:C3'	25:BA:1800:C:H6	2.02	0.42
25:BA:1842:G:C2	25:BA:1843:C:C2	3.08	0.42
25:BA:1850:G:C5	25:BA:1851:U:C6	3.07	0.42
25:BA:1893:C:C2	25:BA:1894:C:C5	3.07	0.42
25:BA:18:C:N3	25:BA:19:C:C5	2.87	0.42
25:BA:1938:A:C5'	25:BA:1939:U:P	3.08	0.42
25:BA:1953:A:C6	25:BA:2550:G:O4'	2.73	0.42
25:BA:1959:G:N2	25:BA:1960:A:C4	2.88	0.42
25:BA:2067:G:H8	25:BA:2067:G:O5'	2.02	0.42
25:BA:2080:G:N2	25:BA:2081:C:C2	2.87	0.42
25:BA:2108:C:O2'	25:BA:2109:U:H5'	2.19	0.42
25:BA:2114:A:H61	25:BA:2170:A:N6	2.18	0.42
25:BA:216:A:O2'	25:BA:217:G:O5'	2.36	0.42
25:BA:2249:U:H1'	25:BA:2275:C:C4	2.55	0.42
25:BA:2254:C:C2	25:BA:2255:G:C8	3.08	0.42
25:BA:2299:G:C2	25:BA:2300:G:C8	3.07	0.42
25:BA:2386:C:C2'	25:BA:2387:U:O5'	2.67	0.42
25:BA:2432:A:N7	25:BA:2433:A:C6	2.87	0.42
25:BA:945:A:N7	25:BA:2448:A:C6	2.88	0.42
25:BA:245:G:C4	25:BA:246:C:C5	3.07	0.42
25:BA:2596:U:C2'	28:BD:242:ARG:NE	2.78	0.42
25:BA:2597:G:O4'	28:BD:242:ARG:NH2	2.52	0.42
25:BA:2619:C:O2'	25:BA:2620:C:C5'	2.68	0.42
25:BA:268:C:C4	25:BA:269:U:H5	2.36	0.42
25:BA:2712(A):A:C3'	25:BA:2712(A):A:C8	3.02	0.42
25:BA:2720:U:H5''	25:BA:2721:A:N7	2.34	0.42
25:BA:2729:G:C4	25:BA:2730:C:C6	3.08	0.42
25:BA:2867:G:H5'	25:BA:2868:A:C5'	2.49	0.42
25:BA:2873:A:HO2'	25:BA:2874:C:P	2.42	0.42
25:BA:295:G:N9	25:BA:345:A:C2	2.88	0.42
25:BA:373:U:N3	51:B3:63:TYR:OH	2.50	0.42
25:BA:408:G:C2'	25:BA:409:C:C5'	2.97	0.42
25:BA:434:U:O2'	25:BA:435:C:O5'	2.32	0.42
25:BA:308:G:N7	25:BA:501:A:C4	2.88	0.42
25:BA:512:G:C8	25:BA:512:G:H3'	2.54	0.42
25:BA:544:C:N4	25:BA:550:G:H1	2.18	0.42
25:BA:602:G:H4'	25:BA:603:A:H4'	2.02	0.42
25:BA:61:G:C2'	25:BA:62:C:O5'	2.67	0.42
25:BA:715:G:O2'	25:BA:716:A:C5'	2.68	0.42
25:BA:748:G:C8	25:BA:750:A:N7	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:780:G:C5	25:BA:782:A:N6	2.87	0.42
25:BA:780:G:H1'	25:BA:785:G:C6	2.55	0.42
25:BA:687:C:C2	25:BA:788:A:O5'	2.73	0.42
25:BA:848:G:N3	25:BA:931:G:O6	2.53	0.42
25:BA:957:A:N7	25:BA:959:A:C5	2.86	0.42
26:BB:13:A:H61	26:BB:69:G:H2'	1.79	0.42
26:BB:43:C:H42	26:BB:45:A:N6	2.15	0.42
27:BC:87:GLU:HG2	27:BC:94:VAL:CG2	2.49	0.42
28:BD:250:TRP:HA	28:BD:250:TRP:CE3	2.54	0.42
28:BD:76:PRO:CG	28:BD:98:VAL:HG21	2.48	0.42
29:BE:133:LYS:CE	29:BE:138:PRO:CD	2.95	0.42
29:BE:176:ILE:CG2	29:BE:181:LEU:O	2.67	0.42
29:BE:73:GLU:N	29:BE:74:PRO:CD	2.83	0.42
30:BF:185:ASP:CG	30:BF:188:ARG:NH1	2.68	0.42
30:BF:37:VAL:O	30:BF:41:LEU:HB3	2.20	0.42
31:BG:105:LYS:CA	31:BG:109:VAL:HG22	2.50	0.42
31:BG:57:ALA:CB	31:BG:67:LYS:C	2.88	0.42
32:BH:105:LEU:O	32:BH:113:VAL:HB	2.19	0.42
32:BH:164:TYR:CD2	32:BH:167:GLU:HG2	2.55	0.42
33:BK:40:THR:O	33:BK:41:GLU:C	2.57	0.42
33:BK:45:LYS:O	33:BK:46:ALA:C	2.58	0.42
35:BM:74:ARG:HD2	35:BM:82:LEU:HD11	2.01	0.42
36:BN:111:PHE:O	36:BN:112:MET:C	2.57	0.42
37:BO:137:LYS:NZ	37:BO:137:LYS:N	2.64	0.42
37:BO:73:GLY:HA2	37:BO:111:ARG:HH22	1.84	0.42
37:BO:85:LEU:C	37:BO:86:LYS:HG2	2.40	0.42
38:BP:46:GLN:O	38:BP:47:ILE:C	2.57	0.42
38:BP:78:PRO:C	38:BP:79:LEU:HD23	2.40	0.42
38:BP:8:LYS:HB2	38:BP:8:LYS:HE2	1.70	0.42
39:BQ:5:LYS:CE	39:BQ:6:SER:N	2.82	0.42
41:BS:107:ASP:HB2	41:BS:108:ARG:NH1	2.34	0.42
41:BS:32:TYR:CD2	41:BS:88:ILE:HG23	2.54	0.42
41:BS:53:ARG:HE	41:BS:102:ILE:CG1	2.31	0.42
41:BS:50:ILE:CG2	41:BS:67:SER:C	2.72	0.42
44:BV:69:LEU:HD23	44:BV:107:LEU:CD2	2.49	0.42
44:BV:13:SER:OG	44:BV:14:PRO:N	2.53	0.42
44:BV:24:ILE:HG21	44:BV:36:LEU:HD22	2.02	0.42
45:BW:84:ALA:HB3	45:BW:85:PRO:CD	2.42	0.42
47:BY:50:GLN:C	47:BY:52:SER:N	2.73	0.42
47:BY:78:LYS:CG	47:BY:79:ARG:N	2.78	0.42
47:BY:86:VAL:C	47:BY:87:ASP:OD2	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BZ:51:VAL:HG21	48:BZ:80:HIS:HA	1.99	0.42
33:BK:114:LEU:HD13	33:BK:130:TYR:HD2	1.82	0.42
25:BA:1076:C:OP2	25:BA:1076:C:C6	2.72	0.42
25:BA:1100:C:H2'	25:BA:1101:U:OP1	2.19	0.42
34:BL:12:LEU:HD13	34:BL:23:VAL:HG21	2.02	0.42
32:BH:25:LYS:CE	32:BH:32:GLU:HB2	2.46	0.42
1:AA:87:A:N7	1:AA:88:C:C5	2.86	0.42
4:A1:22:A:H2'	4:A1:23:A:O5'	2.19	0.42
1:AA:1141:C:C2	1:AA:1142:G:C8	3.07	0.42
1:AA:1130:A:C6	1:AA:1146:A:N1	2.87	0.42
1:AA:1166:G:C2	1:AA:1169:A:P	3.13	0.42
1:AA:1195:C:N3	1:AA:1197:G:C8	2.88	0.42
1:AA:1203:C:OP1	17:AQ:2:ALA:N	2.52	0.42
1:AA:977:A:N1	1:AA:1224:G:O4'	2.52	0.42
1:AA:1327:C:N3	1:AA:1328:C:C5	2.87	0.42
1:AA:1234:C:H5'	1:AA:1365:G:OP1	2.20	0.42
1:AA:1345:U:N3	1:AA:1377:A:C6	2.88	0.42
1:AA:1384:C:H2'	1:AA:1385:G:C5'	2.49	0.42
1:AA:1410:G:C5	1:AA:1411:C:C4	3.08	0.42
1:AA:1419:G:O2'	1:AA:1420:C:O4'	2.30	0.42
1:AA:1498:U:C2	4:A1:17:U:OP1	2.73	0.42
1:AA:1503:A:C2'	1:AA:1503:A:N3	2.81	0.42
1:AA:1530:G:C6	1:AA:1531:A:N1	2.88	0.42
1:AA:179:A:N3	1:AA:180:U:C6	2.88	0.42
1:AA:234:C:C2	1:AA:235:C:C5	3.07	0.42
1:AA:263:A:O2'	1:AA:264:U:C4'	2.68	0.42
1:AA:327:A:H2'	1:AA:329:A:C8	2.54	0.42
1:AA:383:A:C2'	1:AA:384:G:C5'	2.88	0.42
1:AA:397:A:H2'	1:AA:399:G:OP2	2.19	0.42
1:AA:415:A:C2	1:AA:416:G:H1'	2.55	0.42
1:AA:422:C:C2'	1:AA:422:C:O2	2.67	0.42
1:AA:448:A:H2'	1:AA:449:C:H6	1.85	0.42
1:AA:518:C:C2'	1:AA:530:G:H8	2.28	0.42
1:AA:505:G:H5'	1:AA:534:U:H2'	2.01	0.42
1:AA:570:G:H5'	1:AA:820:U:C1'	2.40	0.42
1:AA:617:G:H4'	19:AS:44:THR:OG1	2.20	0.42
1:AA:627:G:C2'	1:AA:628:G:O5'	2.68	0.42
1:AA:754:C:O2	1:AA:754:C:H2'	2.18	0.42
1:AA:867:G:H2'	1:AA:868:C:H6	1.84	0.42
1:AA:936:C:C2'	1:AA:937:A:H5'	2.50	0.42
2:AC:1:C:H2'	2:AC:2:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1339:A:C2	2:AC:31:G:H1'	2.55	0.42
3:AD:69:C:C2	3:AD:70:G:C8	3.07	0.42
5:AE:162:ILE:O	5:AE:185:ILE:HG12	2.18	0.42
5:AE:175:ARG:HD2	5:AE:179:LYS:HZ3	1.83	0.42
5:AE:176:GLU:C	5:AE:180:LEU:HD12	2.39	0.42
5:AE:43:ASP:OD2	5:AE:46:LYS:HB2	2.20	0.42
5:AE:84:GLU:CB	5:AE:215:LEU:HD13	2.50	0.42
7:AG:199:ASN:O	7:AG:200:GLU:HB3	2.20	0.42
7:AG:30:LYS:NZ	7:AG:35:ARG:HH11	2.15	0.42
8:AH:108:ALA:O	8:AH:109:ILE:C	2.57	0.42
8:AH:56:GLN:O	8:AH:59:GLY:HA3	2.19	0.42
10:AJ:86:GLN:CB	10:AJ:148:ASN:ND2	2.73	0.42
10:AJ:45:ASP:HA	10:AJ:48:LYS:HE2	2.01	0.42
10:AJ:69:VAL:HA	10:AJ:138:LYS:HD2	2.01	0.42
11:AK:11:THR:HG22	11:AK:14:ARG:NH2	2.34	0.42
11:AK:120:THR:O	11:AK:121:ASP:C	2.58	0.42
11:AK:11:THR:C	11:AK:13:ILE:N	2.71	0.42
11:AK:42:GLU:OE1	11:AK:122:ARG:NH2	2.49	0.42
12:AL:70:LYS:H	12:AL:70:LYS:CD	2.33	0.42
15:AO:46:LYS:HZ2	15:AO:94:PRO:HG2	1.84	0.42
15:AO:46:LYS:NZ	15:AO:94:PRO:HG2	2.35	0.42
1:AA:1230:C:O2	16:AP:126:LYS:CG	2.68	0.42
16:AP:84:ILE:CD1	16:AP:86:CYS:SG	3.08	0.42
13:AM:47:PHE:HE2	17:AQ:36:PHE:CE2	2.36	0.42
17:AQ:3:ARG:CG	17:AQ:3:ARG:O	2.66	0.42
19:AS:67:THR:HG22	19:AS:69:THR:H	1.84	0.42
20:AT:66:SER:CB	20:AT:69:LYS:HZ3	2.32	0.42
21:AU:75:ILE:HB	21:AU:76:LEU:H	1.62	0.42
22:AV:22:LEU:CG	22:AV:25:LYS:HZ1	2.28	0.42
23:AW:43:LEU:HD21	23:AW:51:GLU:HG3	2.01	0.42
49:B1:30:LEU:CD2	49:B1:30:LEU:H	2.33	0.42
49:B1:7:GLU:HA	49:B1:10:LYS:HG3	2.00	0.42
50:B2:50:VAL:HG13	50:B2:53:LEU:HD12	2.01	0.42
50:B2:6:VAL:CA	50:B2:55:ARG:O	2.67	0.42
51:B3:46:GLN:O	51:B3:52:THR:CB	2.55	0.42
55:B7:1:MET:HB2	55:B7:2:PRO:CD	2.50	0.42
55:B7:57:ARG:HH11	55:B7:57:ARG:CB	2.33	0.42
25:BA:242:G:H5''	55:B7:62:LEU:HD12	2.01	0.42
25:BA:1005:C:C2	25:BA:1137:G:N2	2.81	0.42
25:BA:1035:U:H5''	32:BH:59:ARG:CD	2.50	0.42
25:BA:1142(A):A:OP2	25:BA:1142(A):A:C5	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1224:G:H2'	43:BU:87:HIS:CG	2.53	0.42
25:BA:1253:A:H5'	25:BA:1254:A:OP2	2.19	0.42
25:BA:1268:A:C2	25:BA:1269:A:C4	3.08	0.42
25:BA:1361:G:N3	25:BA:1362:C:C6	2.88	0.42
25:BA:1649:G:N3	25:BA:1650:G:C8	2.88	0.42
25:BA:1704:G:N1	25:BA:1705:G:C8	2.87	0.42
25:BA:1707:G:H2'	25:BA:1707:G:N3	2.34	0.42
25:BA:1805:U:O2'	28:BD:51:VAL:HG13	2.20	0.42
25:BA:1812:A:O2'	28:BD:47:GLY:CA	2.68	0.42
25:BA:1850:G:C5	25:BA:1851:U:C5	3.07	0.42
25:BA:1860:G:H5''	27:BC:206:GLY:HA3	2.01	0.42
25:BA:1869:G:C2	25:BA:1878:G:O6	2.72	0.42
25:BA:1899:G:N2	25:BA:1901:A:N6	2.67	0.42
25:BA:1907:G:O6	25:BA:1924:C:C4	2.72	0.42
25:BA:1920:C:O2'	25:BA:1921:G:H5'	2.19	0.42
25:BA:1923:U:H2'	25:BA:1924:C:H6	1.71	0.42
25:BA:1984:G:N3	25:BA:1985:G:C8	2.87	0.42
25:BA:2003:G:C6	25:BA:2004:G:C5	3.08	0.42
25:BA:2078:C:C4	25:BA:2079:U:O4	2.72	0.42
25:BA:2100:G:C2	25:BA:2101:G:C4	3.08	0.42
25:BA:2121:G:C3'	25:BA:2122:U:C6	3.02	0.42
25:BA:2213:U:OP1	25:BA:2215:G:O6	2.38	0.42
25:BA:2348:U:C5	25:BA:2382:G:N2	2.86	0.42
25:BA:227:A:H62	25:BA:2407:G:H8	1.64	0.42
25:BA:2414:G:C6	25:BA:2415:G:N7	2.87	0.42
25:BA:2423:U:HO2'	25:BA:2425:A:H3'	1.85	0.42
25:BA:2479:G:C6	25:BA:2480:C:C2	3.08	0.42
25:BA:2497:A:O2'	25:BA:2498:C:P	2.75	0.42
25:BA:2498:C:C2'	25:BA:2499:C:C5'	2.94	0.42
25:BA:2591:C:C3'	25:BA:2592:G:C8	3.02	0.42
25:BA:2754:U:H5'	56:B8:15:LYS:HZ1	1.85	0.42
25:BA:2757:A:N6	32:BH:63:SER:OG	2.52	0.42
25:BA:2840:C:C2'	25:BA:2841:C:O5'	2.68	0.42
25:BA:296:C:C2'	25:BA:297:C:C6	2.91	0.42
25:BA:304:G:O2'	25:BA:305:U:H5'	2.20	0.42
25:BA:458:G:O2'	25:BA:459:U:P	2.78	0.42
25:BA:499:U:C2'	25:BA:500:G:H5'	2.49	0.42
25:BA:55:G:H21	25:BA:127:A:H1'	1.84	0.42
25:BA:568:U:H2'	25:BA:570:G:N7	2.35	0.42
25:BA:609:A:C5	25:BA:609(A):G:C6	3.08	0.42
25:BA:651:G:OP2	25:BA:652:C:N4	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:658:C:H2'	25:BA:659:C:C6	2.54	0.42
25:BA:725:G:C2'	25:BA:726:G:H5'	2.50	0.42
25:BA:730:C:H2'	25:BA:731:C:H6	1.83	0.42
25:BA:466:A:C2	25:BA:795:C:O2	2.65	0.42
25:BA:799:G:O6	25:BA:800:A:N1	2.52	0.42
25:BA:586:A:N1	25:BA:809:G:C2'	2.82	0.42
25:BA:826:U:H5''	25:BA:2429:G:P	2.60	0.42
25:BA:828:U:N1	25:BA:829:A:N7	2.68	0.42
26:BB:46:A:C4	26:BB:47:C:C2	3.08	0.42
26:BB:61:G:C2	26:BB:62:C:C2	3.07	0.42
26:BB:77:U:C6	26:BB:77:U:H3'	2.52	0.42
27:BC:104:LEU:HD12	27:BC:130:ILE:HD11	2.01	0.42
27:BC:156:ILE:CA	27:BC:160:ARG:HB2	2.49	0.42
27:BC:196:LEU:HA	27:BC:196:LEU:HD12	1.74	0.42
27:BC:81:GLU:OE2	27:BC:82:LYS:CD	2.65	0.42
28:BD:142:VAL:HA	28:BD:194:GLY:H	1.85	0.42
28:BD:146:GLU:OE1	28:BD:149:PRO:HA	2.19	0.42
28:BD:169:GLU:OE2	28:BD:169:GLU:C	2.58	0.42
28:BD:208:LYS:HE2	28:BD:211:ARG:NE	2.35	0.42
25:BA:2596:U:O3'	28:BD:242:ARG:HD3	2.19	0.42
28:BD:67:PHE:O	28:BD:153:ALA:HB2	2.20	0.42
28:BD:77:ALA:HB2	28:BD:97:TYR:HA	2.02	0.42
29:BE:105:THR:C	29:BE:196:VAL:HG22	2.40	0.42
25:BA:2571:C:H2'	29:BE:146:THR:OG1	2.20	0.42
29:BE:156:MET:CG	29:BE:157:ALA:N	2.74	0.42
29:BE:4:ILE:CD1	29:BE:5:LEU:N	2.73	0.42
30:BF:196:LEU:HD23	30:BF:196:LEU:HA	1.79	0.42
31:BG:137:GLU:O	31:BG:155:MET:HB3	2.20	0.42
31:BG:83:ARG:O	31:BG:84:LYS:HG3	2.19	0.42
31:BG:75:LYS:CD	31:BG:85:GLY:H	2.33	0.42
32:BH:137:ASP:O	32:BH:138:LYS:C	2.58	0.42
25:BA:2746:U:H5'	32:BH:139:GLN:O	2.19	0.42
32:BH:89:ILE:CG2	32:BH:94:TYR:CZ	3.02	0.42
32:BH:90:LYS:HE2	32:BH:163:TYR:CD2	2.55	0.42
33:BK:33:ARG:HB2	33:BK:34:GLY:H	1.31	0.42
35:BM:12:ARG:NH1	35:BM:12:ARG:HB3	2.33	0.42
35:BM:56:ASN:CB	35:BM:59:LYS:HE3	2.47	0.42
36:BN:105:GLU:O	36:BN:108:GLU:N	2.52	0.42
36:BN:13:ASN:O	36:BN:14:THR:C	2.56	0.42
37:BO:124:LYS:HZ2	37:BO:141:ALA:HB3	1.81	0.42
37:BO:18:ARG:O	37:BO:20:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:132:VAL:HB	38:BP:133:ARG:H	1.66	0.42
38:BP:59:ARG:O	38:BP:60:ARG:HD2	2.20	0.42
39:BQ:18:LEU:HA	39:BQ:18:LEU:HD13	1.76	0.42
39:BQ:29:LEU:HD22	39:BQ:29:LEU:HA	1.73	0.42
25:BA:1652:A:OP1	39:BQ:39:PRO:HG3	2.20	0.42
39:BQ:39:PRO:O	39:BQ:41:ALA:N	2.53	0.42
39:BQ:73:VAL:C	39:BQ:77:ARG:HH11	2.21	0.42
40:BR:52:SER:OG	40:BR:69:VAL:CG1	2.66	0.42
41:BS:104:ASN:N	41:BS:107:ASP:OD2	2.53	0.42
42:BT:48:ALA:N	42:BT:51:LYS:HE2	2.35	0.42
42:BT:57:PHE:HB3	42:BT:61:TRP:CD1	2.53	0.42
42:BT:63:VAL:CA	42:BT:66:ASN:HD22	2.14	0.42
42:BT:89:GLU:OE1	43:BU:50:PRO:CA	2.68	0.42
42:BT:94:ASN:CA	42:BT:97:ASP:OD1	2.67	0.42
43:BU:12:TYR:CE1	43:BU:14:VAL:HG23	2.54	0.42
43:BU:23:GLU:N	43:BU:93:GLU:CB	2.79	0.42
47:BY:4:ARG:HD2	47:BY:37:VAL:HG12	2.02	0.42
47:BY:99:TYR:CZ	47:BY:124:ILE:HB	2.55	0.42
33:BK:128:LEU:HD22	33:BK:129:THR:HG22	2.02	0.42
33:BK:97:ILE:HG22	33:BK:101:LEU:HD22	2.02	0.42
25:BA:1054:A:N1	25:BA:1055:G:C6	2.87	0.42
25:BA:1062:G:N7	25:BA:1077:A:N1	2.67	0.42
25:BA:1084:A:N6	25:BA:1085:A:H2	2.16	0.42
34:BL:101:TRP:O	34:BL:104:VAL:HB	2.19	0.42
34:BL:27:LEU:HA	34:BL:32:ALA:HB3	2.01	0.42
1:AA:1537:U:C2	1:AA:1538:C:H1'	2.55	0.42
1:AA:1003:G:N2	1:AA:1004:A:O2'	2.53	0.42
1:AA:1027:C:N4	1:AA:1028:C:N4	2.68	0.42
1:AA:1041:A:C5	1:AA:1042:G:N7	2.88	0.42
6:AF:118:GLN:C	6:AF:122:GLU:OE2	2.58	0.42
1:AA:748:C:HO2'	1:AA:749:C:C5'	2.33	0.42
27:BC:210:ARG:NH1	27:BC:210:ARG:CG	2.82	0.42
27:BC:148:ASN:ND2	27:BC:152:ILE:CG1	2.82	0.42
25:BA:1628:G:C2	25:BA:1629:U:C2	3.08	0.42
1:AA:1128:C:C5	1:AA:1139:G:C6	3.08	0.42
1:AA:1198:G:C2'	1:AA:1199:U:C5'	2.98	0.42
1:AA:1244:C:N4	1:AA:1245:A:N6	2.66	0.42
1:AA:1319:A:H4'	22:AV:70:LYS:CE	2.49	0.42
1:AA:131:C:O2'	1:AA:132:C:C5'	2.68	0.42
1:AA:1330:U:C4	1:AA:1331:G:C5	3.07	0.42
1:AA:1306:A:H1'	1:AA:1332:A:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1341:U:C5'	2:AC:32:C:OP1	2.68	0.42
1:AA:1347:G:C2'	12:AL:107:ARG:HB3	2.49	0.42
1:AA:1367:C:OP1	12:AL:115:GLY:CA	2.67	0.42
1:AA:1422:G:C2	1:AA:1479:C:C2	3.07	0.42
1:AA:336:C:H1'	1:AA:1468:A:C2	2.54	0.42
1:AA:151:A:H2'	1:AA:152:A:C5'	2.50	0.42
1:AA:152:A:N1	1:AA:170:U:C2	2.87	0.42
1:AA:163:C:C4	1:AA:164:U:C5	3.08	0.42
1:AA:121:C:H41	1:AA:235:C:H3'	1.85	0.42
1:AA:266:G:O2'	1:AA:267:C:P	2.77	0.42
1:AA:276:G:N2	1:AA:277:C:H1'	2.35	0.42
1:AA:321:A:H5'	1:AA:1435:G:HO2'	1.84	0.42
1:AA:37:U:O2'	1:AA:500:G:C4'	2.58	0.42
1:AA:37:U:OP2	15:AO:123:LYS:NZ	2.41	0.42
1:AA:65:U:H2'	1:AA:381:C:C5	2.55	0.42
1:AA:416:G:C5	1:AA:417:C:C4	3.08	0.42
1:AA:516:U:C5	1:AA:517:G:C6	3.07	0.42
1:AA:521:G:C6	1:AA:529:G:N2	2.88	0.42
1:AA:559:A:C5'	1:AA:560:U:H5'	2.50	0.42
1:AA:598:U:O2	1:AA:599:C:C6	2.73	0.42
1:AA:647:C:C4	1:AA:648:A:N7	2.88	0.42
1:AA:654:G:O6	1:AA:655:A:C2	2.73	0.42
1:AA:668:G:H2'	1:AA:669:U:C6	2.54	0.42
1:AA:670:G:O3'	9:AI:77:ARG:NH2	2.53	0.42
1:AA:684:A:C5	1:AA:685:G:C6	3.08	0.42
1:AA:728:A:C6	1:AA:729:A:N7	2.88	0.42
1:AA:756:C:H2'	1:AA:757:U:C6	2.52	0.42
1:AA:881:G:C5	1:AA:882:C:C5	3.07	0.42
1:AA:895:G:N3	1:AA:896:C:C5	2.87	0.42
1:AA:951:G:C2'	1:AA:970:C:O2'	2.66	0.42
1:AA:956:U:H2'	1:AA:957:U:C6	2.54	0.42
1:AA:985:C:H2'	1:AA:986:A:C8	2.53	0.42
1:AA:993:G:N1	1:AA:1046:A:C5	2.87	0.42
3:AD:37:A:H2'	3:AD:38:A:C8	2.53	0.42
3:AD:60:U:H2'	3:AD:61:C:OP1	2.20	0.42
5:AE:112:VAL:C	5:AE:116:GLU:OE2	2.58	0.42
5:AE:181:PHE:O	5:AE:182:ILE:O	2.38	0.42
5:AE:55:PHE:CZ	5:AE:217:ARG:HB2	2.54	0.42
7:AG:67:ILE:HD12	7:AG:68:TYR:N	2.35	0.42
9:AI:12:PRO:C	9:AI:14:LEU:H	2.22	0.42
9:AI:24:GLU:O	9:AI:27:GLN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:45:LEU:CG	9:AI:59:TYR:HD1	2.14	0.42
9:AI:76:ALA:HB1	9:AI:80:ARG:HE	1.85	0.42
10:AJ:145:ALA:O	10:AJ:146:GLU:CB	2.62	0.42
10:AJ:14:PRO:HB3	10:AJ:19:GLY:C	2.40	0.42
11:AK:33:GLU:HG2	11:AK:59:LEU:CD2	2.45	0.42
11:AK:43:GLY:O	11:AK:44:PHE:CB	2.64	0.42
11:AK:68:ARG:O	11:AK:69:ARG:CB	2.66	0.42
11:AK:65:TYR:HB2	11:AK:76:PRO:CB	2.50	0.42
12:AL:37:PHE:CE1	12:AL:74:ILE:CG2	2.94	0.42
12:AL:52:ALA:HB1	12:AL:85:LEU:HD21	2.01	0.42
12:AL:9:ARG:HH11	12:AL:9:ARG:HG3	1.84	0.42
14:AN:60:ALA:O	14:AN:61:ALA:C	2.58	0.42
11:AK:91:ARG:HG2	15:AO:7:ILE:HD12	2.01	0.42
16:AP:13:LYS:HD3	16:AP:21:TYR:OH	2.20	0.42
16:AP:19:LEU:HD12	16:AP:20:THR:H	1.81	0.42
18:AR:17:ARG:HA	18:AR:17:ARG:HD2	1.96	0.42
18:AR:16:ALA:CA	18:AR:21:ASP:HB3	2.49	0.42
18:AR:43:LEU:HD11	18:AR:56:LEU:HD23	2.02	0.42
1:AA:808:C:P	18:AR:48:LYS:HZ1	2.43	0.42
18:AR:78:TYR:HD2	18:AR:82:ILE:CD1	2.32	0.42
19:AS:63:GLY:O	19:AS:65:GLN:N	2.53	0.42
23:AW:12:ALA:C	23:AW:14:LYS:N	2.72	0.42
23:AW:50:GLU:HB2	23:AW:99:LEU:CD1	2.50	0.42
49:B1:57:THR:O	49:B1:60:ASN:HB3	2.20	0.42
51:B3:38:LYS:O	51:B3:39:CYS:HB2	2.20	0.42
53:B5:43:CYS:O	53:B5:44:ARG:C	2.56	0.42
56:B8:19:ARG:HD3	56:B8:22:ARG:CD	2.50	0.42
25:BA:2526:G:H2'	56:B8:35:ARG:HH22	1.84	0.42
25:BA:816:C:C4	25:BA:1192:G:N1	2.87	0.42
25:BA:1257:C:C2	25:BA:1258:C:C5	3.07	0.42
25:BA:1263:U:C2	25:BA:1264:G:C2	3.07	0.42
25:BA:1268:A:C6	25:BA:2013:A:C8	3.07	0.42
25:BA:1268:A:N7	25:BA:2013:A:N7	2.67	0.42
25:BA:1296:G:O2'	25:BA:1297:C:C5'	2.67	0.42
25:BA:1302:A:H5''	25:BA:1303:G:OP2	2.20	0.42
25:BA:130:C:H2'	25:BA:131:G:O4'	2.19	0.42
25:BA:1323:U:HO2'	25:BA:1324:G:P	2.41	0.42
25:BA:1410:G:H2'	25:BA:1411:C:O4'	2.19	0.42
25:BA:1488:G:C5	25:BA:1489:U:C6	3.07	0.42
25:BA:1496:A:C2	25:BA:1497:U:O4	2.73	0.42
25:BA:1772:G:N1	25:BA:1980:G:N1	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:49:A:C2	25:BA:177:G:N2	2.87	0.42
25:BA:1819:A:OP2	28:BD:157:ARG:HA	2.20	0.42
25:BA:1945:G:C6	25:BA:1946:U:C4	3.07	0.42
25:BA:1960:A:OP2	25:BA:1960:A:H8	2.03	0.42
25:BA:1967:C:O2	25:BA:1968:G:O4'	2.37	0.42
25:BA:1988:C:C2	25:BA:1989:G:C8	3.08	0.42
25:BA:2029:G:N2	25:BA:2033:A:N7	2.67	0.42
25:BA:573:G:O6	25:BA:2030:A:H8	2.03	0.42
25:BA:2083:G:N2	25:BA:2084:C:C2	2.88	0.42
25:BA:2256:G:H2'	25:BA:2257:U:O4'	2.20	0.42
25:BA:2305:A:H61	25:BA:2312:U:H1'	1.85	0.42
25:BA:2351:G:O2'	25:BA:2366:A:N6	2.45	0.42
25:BA:2378:A:N3	25:BA:2378:A:C2'	2.81	0.42
25:BA:2380:C:H6	25:BA:2380:C:O5'	2.02	0.42
25:BA:2385:C:C4	25:BA:2386:C:H5	2.38	0.42
25:BA:2399:G:N2	53:B5:21:TYR:OH	2.53	0.42
25:BA:1782:C:H5	25:BA:2587:A:N1	2.18	0.42
25:BA:2602:A:N9	48:BZ:2:ALA:CB	2.82	0.42
25:BA:2605:U:H3	25:BA:2606:C:N4	2.18	0.42
25:BA:1268:A:H1'	25:BA:2613:U:O2	2.20	0.42
25:BA:2615:U:H6	25:BA:2615:U:H5'	1.85	0.42
25:BA:2692:C:O2	25:BA:2847:U:O2'	2.33	0.42
25:BA:270(I):G:C6	25:BA:270(R):G:C6	3.07	0.42
25:BA:2839:G:N2	39:BQ:91:GLN:CG	2.82	0.42
25:BA:30:G:N1	25:BA:511:U:O2	2.53	0.42
25:BA:372:G:OP2	25:BA:373:U:OP2	2.37	0.42
25:BA:41:C:O2'	25:BA:43:G:C5'	2.63	0.42
25:BA:424:G:H21	25:BA:425:G:H1'	1.83	0.42
25:BA:46:C:OP2	25:BA:46:C:O4'	2.38	0.42
25:BA:533:G:OP1	42:BT:25:TRP:N	2.41	0.42
25:BA:565:C:C4'	25:BA:1252:G:O6	2.68	0.42
25:BA:565:C:C4	25:BA:566:U:C4	3.06	0.42
25:BA:567:A:C2'	25:BA:568:U:OP1	2.67	0.42
25:BA:630:G:N2	25:BA:634:C:C4	2.88	0.42
25:BA:681:G:C2	25:BA:682:G:C5	3.08	0.42
25:BA:697:C:C2'	25:BA:698:C:H5'	2.48	0.42
25:BA:701:G:C2	25:BA:732:C:C2	3.07	0.42
25:BA:731:C:H2'	25:BA:732:C:O5'	2.19	0.42
25:BA:740:U:H2'	25:BA:741:G:C8	2.55	0.42
25:BA:775:G:C5'	25:BA:777:A:H1'	2.50	0.42
25:BA:805:G:C5	25:BA:2068:U:OP1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:811:U:H3'	25:BA:811:U:H6	1.84	0.42
25:BA:851:U:H5'	50:B2:49:LYS:HD2	2.00	0.42
25:BA:945:A:C5	25:BA:2448:A:C5	3.07	0.42
25:BA:980:A:C6	25:BA:1135:C:C4'	3.00	0.42
26:BB:29:A:C6	26:BB:30:C:C4	3.07	0.42
26:BB:7:G:OP1	40:BR:29:PHE:HZ	1.99	0.42
26:BB:82:G:C2'	26:BB:83:G:H8	2.32	0.42
27:BC:28:LEU:HA	27:BC:31:GLU:OE1	2.19	0.42
27:BC:47:LEU:HD21	27:BC:49:ILE:HD11	2.01	0.42
28:BD:118:VAL:HG12	28:BD:119:ALA:N	2.34	0.42
28:BD:246:PRO:CB	28:BD:252:TRP:CE3	3.03	0.42
28:BD:51:VAL:HB	28:BD:52:ARG:HD2	2.02	0.42
28:BD:91:ARG:HD3	28:BD:91:ARG:N	2.34	0.42
29:BE:7:VAL:HG23	29:BE:8:LYS:N	2.35	0.42
30:BF:32:LEU:O	30:BF:35:GLU:HB3	2.20	0.42
30:BF:36:VAL:HG11	30:BF:183:VAL:HB	2.00	0.42
30:BF:52:LYS:O	30:BF:53:THR:HG23	2.20	0.42
31:BG:49:ASP:CA	31:BG:53:LEU:CD1	2.97	0.42
26:BB:43:C:H1'	31:BG:95:ARG:H	1.85	0.42
32:BH:58:GLU:O	32:BH:62:LYS:HD2	2.20	0.42
33:BK:9:LEU:CG	33:BK:17:GLN:HE22	2.30	0.42
35:BM:133:GLN:OE1	35:BM:133:GLN:HA	2.19	0.42
35:BM:45:ASN:O	35:BM:46:VAL:CB	2.67	0.42
35:BM:69:GLN:OE1	35:BM:87:LEU:CD1	2.66	0.42
35:BM:74:ARG:NH2	35:BM:78:TYR:CD1	2.87	0.42
36:BN:15:GLY:HA3	36:BN:47:ILE:CG1	2.50	0.42
36:BN:87:ILE:HD12	36:BN:93:PRO:CA	2.50	0.42
25:BA:2406:U:H3	37:BO:65:ARG:HA	1.85	0.42
37:BO:93:GLY:O	37:BO:102:ARG:NH2	2.52	0.42
38:BP:22:LYS:HA	38:BP:99:PRO:HD3	2.02	0.42
39:BQ:116:LEU:N	39:BQ:116:LEU:HD23	2.34	0.42
39:BQ:73:VAL:O	39:BQ:77:ARG:NH1	2.49	0.42
40:BR:101:LEU:O	40:BR:101:LEU:HD12	2.19	0.42
40:BR:70:GLY:C	40:BR:72:ALA:N	2.73	0.42
41:BS:35:LYS:HE2	41:BS:86:ILE:HG12	2.01	0.42
42:BT:10:ARG:C	42:BT:12:ARG:N	2.68	0.42
42:BT:52:ARG:O	42:BT:55:ARG:NE	2.52	0.42
42:BT:63:VAL:O	42:BT:65:ILE:N	2.53	0.42
45:BW:50:LYS:NZ	45:BW:85:PRO:CD	2.79	0.42
25:BA:1312:U:O5'	45:BW:62:LYS:HD2	2.20	0.42
46:BX:84:ARG:HD3	46:BX:84:ARG:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:110:GLY:O	47:BY:113:ALA:CB	2.62	0.42
47:BY:56:VAL:HG21	47:BY:135:GLU:HA	2.01	0.42
47:BY:134:PRO:HG2	47:BY:137:ILE:CG1	2.50	0.42
47:BY:6:LYS:CE	47:BY:35:ARG:HD3	2.50	0.42
48:BZ:23:VAL:CG2	48:BZ:44:ARG:NH1	2.83	0.42
34:BL:106:GLU:O	34:BL:107:ILE:C	2.58	0.42
25:BA:1096:A:N6	34:BL:30:HIS:CD2	2.88	0.42
34:BL:37:PHE:CE1	34:BL:57:ILE:HB	2.54	0.42
7:AG:163:GLU:CG	7:AG:164:ALA:N	2.82	0.42
1:AA:1537:U:H3'	1:AA:1538:C:O4'	2.19	0.42
34:BL:14:ALA:O	34:BL:49:GLY:HA3	2.19	0.42
1:AA:1033:G:OP2	1:AA:1033:G:H8	2.02	0.42
1:AA:1043:C:C2'	1:AA:1044:A:H5'	2.49	0.42
3:AD:43:A:H2'	3:AD:43:A:N3	2.34	0.42
1:AA:1074:G:H4'	5:AE:104:ASN:HB3	2.01	0.42
1:AA:1099:G:N3	1:AA:1099:G:C2'	2.82	0.42
1:AA:1161:C:O2	1:AA:1162:C:C6	2.72	0.42
1:AA:1177:G:O2'	1:AA:1178:G:H5'	2.19	0.42
1:AA:1321:C:N4	1:AA:1322:C:H2'	2.33	0.42
1:AA:1329:A:O3'	16:AP:24:GLY:HA2	2.20	0.42
1:AA:1392:G:C2'	1:AA:1393:U:O4'	2.68	0.42
1:AA:145:G:C2	1:AA:178:C:C2	3.07	0.42
1:AA:1468:A:O2'	1:AA:1469:G:P	2.77	0.42
1:AA:1504:G:C8	1:AA:1504:G:C3'	3.03	0.42
1:AA:245:C:C2	1:AA:284:G:C2	3.08	0.42
1:AA:22:G:P	1:AA:561:U:O2	2.78	0.42
1:AA:580:U:H2'	1:AA:581:G:O4'	2.19	0.42
1:AA:695:A:C2	1:AA:696:A:C4	3.07	0.42
1:AA:964:A:H1'	13:AM:55:LYS:HZ3	1.83	0.42
1:AA:972:C:O2	1:AA:972:C:C2'	2.68	0.42
2:AC:10:G:N2	2:AC:11:A:N9	2.67	0.42
5:AE:95:GLN:HG3	5:AE:148:TYR:HB3	2.02	0.42
5:AE:15:VAL:CG2	5:AE:210:SER:HA	2.49	0.42
5:AE:164:VAL:O	5:AE:186:ALA:HA	2.20	0.42
5:AE:55:PHE:HZ	5:AE:217:ARG:HB2	1.84	0.42
5:AE:74:LYS:O	5:AE:75:LYS:C	2.58	0.42
6:AF:73:PRO:CB	6:AF:105:GLU:OE1	2.63	0.42
6:AF:123:GLN:CB	6:AF:128:PHE:HE2	2.22	0.42
6:AF:156:ARG:HB3	6:AF:156:ARG:HE	1.69	0.42
6:AF:21:ARG:HH22	6:AF:54:ARG:NH2	2.17	0.42
6:AF:50:ALA:HB1	6:AF:70:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:43:LEU:CD2	6:AF:55:VAL:HG21	2.50	0.42
6:AF:43:LEU:HD21	6:AF:55:VAL:HG21	2.01	0.42
6:AF:85:ARG:C	6:AF:87:LEU:N	2.72	0.42
7:AG:120:LEU:HD11	7:AG:126:ILE:HD11	2.00	0.42
7:AG:152:SER:C	7:AG:154:ASN:N	2.73	0.42
7:AG:61:LYS:CG	7:AG:207:TYR:HE1	2.27	0.42
8:AH:121:LYS:HZ2	8:AH:121:LYS:C	2.22	0.42
8:AH:76:ILE:HG21	8:AH:142:LEU:HB3	2.02	0.42
8:AH:41:VAL:C	8:AH:66:MET:SD	2.99	0.42
8:AH:82:VAL:HG13	8:AH:89:ILE:H	1.85	0.42
11:AK:104:ARG:CB	11:AK:107:LEU:HG	2.50	0.42
11:AK:112:LEU:HG	11:AK:114:THR:HG22	2.01	0.42
11:AK:29:SER:N	11:AK:32:LYS:HZ1	2.17	0.42
12:AL:75:ASP:O	12:AL:78:LYS:HB3	2.20	0.42
1:AA:1280:A:N3	13:AM:41:PRO:HG3	2.35	0.42
14:AN:85:ARG:CD	14:AN:113:PRO:HD2	2.50	0.42
15:AO:28:LYS:HG3	15:AO:33:ARG:NH1	2.34	0.42
15:AO:84:LEU:O	15:AO:100:ILE:HA	2.20	0.42
17:AQ:31:ARG:O	17:AQ:33:VAL:HG22	2.20	0.42
18:AR:33:THR:HG23	18:AR:87:ILE:CD1	2.47	0.42
1:AA:669:U:O4'	18:AR:46:HIS:HE1	2.02	0.42
19:AS:3:LYS:CB	19:AS:3:LYS:HZ2	2.32	0.42
19:AS:39:TYR:CE1	19:AS:41:PRO:CA	2.97	0.42
20:AT:24:GLU:HG3	20:AT:39:SER:HB2	2.02	0.42
20:AT:51:TYR:CE2	20:AT:73:VAL:HG11	2.54	0.42
20:AT:59:ILE:HG12	20:AT:71:PHE:CD2	2.55	0.42
20:AT:75:ARG:CZ	20:AT:77:VAL:HG22	2.48	0.42
22:AV:69:HIS:HB3	22:AV:73:GLU:CD	2.40	0.42
23:AW:51:GLU:N	23:AW:54:LYS:HE3	2.34	0.42
49:B1:23:LYS:HZ1	49:B1:55:LEU:CD1	2.32	0.42
45:BW:5:TYR:CB	49:B1:24:LYS:CD	2.90	0.42
49:B1:24:LYS:O	49:B1:25:ARG:C	2.58	0.42
50:B2:15:TYR:CB	50:B2:16:PRO:HD2	2.49	0.42
50:B2:35:ARG:HH22	50:B2:47:VAL:HG13	1.84	0.42
50:B2:6:VAL:CG1	50:B2:55:ARG:O	2.63	0.42
52:B4:50:GLY:HA3	52:B4:57:VAL:CG2	2.46	0.42
53:B5:22:ALA:HB1	53:B5:39:TYR:CE2	2.55	0.42
53:B5:25:LYS:O	53:B5:26:ASN:HB2	2.20	0.42
55:B7:23:VAL:HG13	55:B7:47:LYS:H	1.85	0.42
25:BA:1022:G:C2	25:BA:1024:G:N2	2.87	0.42
25:BA:1024:G:C3'	25:BA:1024:G:C8	3.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1198:U:C2'	25:BA:1199:U:C6	2.93	0.42
25:BA:1273:U:H4'	25:BA:1275:A:OP1	2.19	0.42
25:BA:1359:A:N1	25:BA:1360:A:N9	2.68	0.42
25:BA:1387:C:C2	25:BA:1388:G:N7	2.88	0.42
25:BA:1394:U:O2	25:BA:1394:U:C2'	2.66	0.42
25:BA:1403:C:O2	25:BA:1404:C:C6	2.72	0.42
25:BA:145:G:H2'	25:BA:146:G:C8	2.54	0.42
25:BA:146:G:H2'	25:BA:147:U:C5'	2.50	0.42
25:BA:1538:G:N2	25:BA:1539:G:N2	2.58	0.42
25:BA:1568:G:OP2	28:BD:61:LEU:CD1	2.68	0.42
25:BA:1664:A:H4'	36:BN:66:LYS:HZ2	1.82	0.42
25:BA:1704:G:C2	25:BA:1705:G:C8	3.08	0.42
25:BA:1853:A:H2'	25:BA:1854:A:C8	2.55	0.42
25:BA:1899:G:N3	25:BA:1901:A:N7	2.67	0.42
25:BA:1917:U:H6	25:BA:1918:A:C8	2.38	0.42
25:BA:1934:C:C2'	25:BA:1935:G:O5'	2.68	0.42
25:BA:1941:C:C5	25:BA:1942:C:C5	3.07	0.42
25:BA:1947:C:C2'	25:BA:1948:G:H5'	2.50	0.42
25:BA:1944:U:O4'	25:BA:1955:U:C6	2.72	0.42
25:BA:1968:G:C8	25:BA:1968:G:C3'	3.03	0.42
25:BA:2092:U:O2	25:BA:2092:U:C2'	2.67	0.42
25:BA:2218:G:N1	25:BA:2219:G:C5	2.87	0.42
25:BA:2088:G:N2	25:BA:2232:U:C2	2.87	0.42
25:BA:2236:C:C5	25:BA:2237:G:C5	3.07	0.42
25:BA:2278:A:N1	25:BA:2279:G:C5	2.87	0.42
25:BA:2321:G:H21	25:BA:2322:A:H1'	1.84	0.42
25:BA:2450:A:OP1	25:BA:2497:A:N7	2.53	0.42
25:BA:2480:C:OP2	25:BA:2537:U:H4'	2.19	0.42
25:BA:2481:G:H2'	25:BA:2482:G:OP2	2.19	0.42
25:BA:2616:C:C2'	25:BA:2617:C:H6	2.29	0.42
25:BA:2052:G:C2	25:BA:2618:G:H1'	2.55	0.42
25:BA:2656:U:O2'	25:BA:2657:A:H5'	2.19	0.42
25:BA:2660:A:C2'	25:BA:2661:G:C5'	2.98	0.42
25:BA:2693:A:C2	25:BA:2717:G:C6	3.08	0.42
25:BA:2739:U:H6	25:BA:2739:U:H5''	1.85	0.42
25:BA:2746:U:C4'	32:BH:139:GLN:CA	2.93	0.42
25:BA:2772:C:O2	25:BA:2773:C:C5	2.72	0.42
25:BA:2782:G:C4	25:BA:2783:G:N7	2.88	0.42
25:BA:2810:A:O2'	29:BE:60:ASN:ND2	2.53	0.42
25:BA:2850:A:OP2	25:BA:2866:U:C5	2.73	0.42
25:BA:411:G:C2	25:BA:2407:G:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:427:U:C2'	25:BA:428:A:OP2	2.67	0.42
25:BA:531:C:C2	25:BA:532:A:H1'	2.55	0.42
25:BA:603:A:O2'	25:BA:604:G:O5'	2.31	0.42
25:BA:653:A:H62	25:BA:655:A:C1'	2.10	0.42
25:BA:660:G:H2'	25:BA:661:C:H6	1.83	0.42
25:BA:663:G:H5'	37:BO:18:ARG:CG	2.50	0.42
25:BA:680:G:O2'	25:BA:681:G:H5'	2.19	0.42
25:BA:700:G:H2'	25:BA:701:G:H8	1.85	0.42
25:BA:702:G:H21	25:BA:703:U:H1'	1.82	0.42
25:BA:717:G:H2'	25:BA:718:A:O5'	2.19	0.42
25:BA:76:C:H5'	49:B1:50:ARG:HD3	2.01	0.42
25:BA:784:A:C8	25:BA:792:G:C6	3.08	0.42
25:BA:827:U:O5'	25:BA:828:U:C4	2.73	0.42
25:BA:89:G:C4	25:BA:90:U:C5	3.08	0.42
25:BA:925:C:O2'	25:BA:926:A:H5'	2.20	0.42
25:BA:933:A:C4	25:BA:934:G:C8	3.08	0.42
25:BA:945:A:C2'	25:BA:946:G:H5''	2.50	0.42
25:BA:974:G:O6	25:BA:974(A):C:C4	2.73	0.42
25:BA:991:C:H5'	25:BA:1185:C:C2'	2.49	0.42
25:BA:996:A:C4	25:BA:997:G:N7	2.88	0.42
27:BC:56:GLN:HE21	27:BC:203:GLY:H	1.65	0.42
27:BC:77:ILE:HG21	27:BC:100:ILE:CD1	2.48	0.42
25:BA:1797:C:H4'	28:BD:255:LYS:O	2.20	0.42
28:BD:265:PRO:HA	28:BD:269:PHE:CZ	2.51	0.42
28:BD:63:ARG:NH1	28:BD:63:ARG:H	2.18	0.42
29:BE:11:MET:CE	29:BE:12:THR:H	2.33	0.42
29:BE:62:PRO:C	29:BE:64:LYS:N	2.72	0.42
29:BE:8:LYS:C	29:BE:8:LYS:HD3	2.40	0.42
25:BA:659:C:C4'	30:BF:102:PRO:CD	2.98	0.42
30:BF:121:GLY:CA	30:BF:191:ARG:NE	2.78	0.42
30:BF:203:GLN:C	30:BF:205:ARG:N	2.72	0.42
31:BG:64:THR:CB	31:BG:102:PHE:CE1	3.02	0.42
32:BH:122:THR:CG2	32:BH:123:PHE:N	2.82	0.42
32:BH:133:VAL:CG2	32:BH:134:SER:N	2.82	0.42
32:BH:90:LYS:O	32:BH:90:LYS:CD	2.67	0.42
33:BK:21:VAL:CG1	33:BK:30:LEU:HD23	2.50	0.42
35:BM:55:VAL:CG1	35:BM:126:PRO:O	2.66	0.42
35:BM:15:LEU:CD1	35:BM:130:HIS:CE1	3.02	0.42
35:BM:97:ARG:HA	35:BM:100:GLU:CB	2.45	0.42
36:BN:10:VAL:HG11	36:BN:14:THR:CB	2.49	0.42
37:BO:107:LYS:O	37:BO:108:LYS:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:129:ALA:C	37:BO:130:PHE:CD2	2.88	0.42
37:BO:146:VAL:HG12	37:BO:147:LEU:H	1.85	0.42
25:BA:2393:A:C4'	37:BO:55:ARG:HA	2.50	0.42
37:BO:97:PRO:O	37:BO:99:LEU:O	2.38	0.42
38:BP:34:LEU:CB	38:BP:103:MET:O	2.68	0.42
38:BP:44:ALA:O	38:BP:47:ILE:N	2.53	0.42
39:BQ:22:ARG:O	39:BQ:23:ASN:C	2.58	0.42
39:BQ:65:LEU:C	39:BQ:67:LEU:N	2.69	0.42
40:BR:73:LEU:O	40:BR:76:LYS:CE	2.68	0.42
41:BS:52:ILE:HG12	41:BS:66:VAL:HG13	2.02	0.42
42:BT:8:VAL:HG11	42:BT:12:ARG:NH2	2.35	0.42
43:BU:22:VAL:HG11	43:BU:24:LYS:NZ	2.34	0.42
43:BU:35:LEU:N	43:BU:61:VAL:CG1	2.77	0.42
43:BU:5:VAL:CG1	43:BU:38:LEU:C	2.87	0.42
43:BU:43:GLU:C	43:BU:44:LYS:HD3	2.39	0.42
43:BU:71:LEU:CD1	43:BU:91:TYR:HB2	2.50	0.42
44:BV:33:ARG:C	44:BV:33:ARG:CD	2.88	0.42
45:BW:85:PRO:HG3	45:BW:87:GLN:HG2	1.95	0.42
46:BX:44:ILE:O	46:BX:45:VAL:HG23	2.20	0.42
46:BX:13:VAL:N	46:BX:73:ARG:NE	2.67	0.42
48:BZ:21:LEU:CG	48:BZ:22:GLY:H	2.33	0.42
48:BZ:77:ARG:C	48:BZ:78:TYR:CD1	2.93	0.42
33:BK:87:LYS:CE	33:BK:122:GLU:OE2	2.66	0.42
33:BK:125:GLU:O	33:BK:125:GLU:OE1	2.38	0.42
33:BK:66:GLU:CA	33:BK:69:LYS:HD3	2.37	0.42
33:BK:93:THR:HG23	33:BK:95:LYS:CB	2.50	0.42
25:BA:1086:A:H3'	25:BA:1087:G:C5'	2.47	0.42
34:BL:12:LEU:HD22	34:BL:19:PRO:HG2	2.01	0.42
34:BL:13:PRO:O	34:BL:16:LYS:HD3	2.20	0.42
34:BL:17:ALA:O	34:BL:18:THR:OG1	2.35	0.42
34:BL:58:THR:OG1	34:BL:59:ILE:N	2.52	0.42
34:BL:99:ILE:CG2	34:BL:100:THR:N	2.57	0.42
1:AA:1442:G:C5'	1:AA:1442:G:N3	2.83	0.42
25:BA:843:G:C6	25:BA:844:C:C5	3.08	0.42
1:AA:748:C:C5'	1:AA:748:C:H6	2.32	0.42
25:BA:1573:G:C3'	25:BA:1573:G:C8	3.02	0.42
3:AD:26:A:C2'	3:AD:27:U:O5'	2.68	0.42
4:A1:3:C:N4	4:A1:4:A:N6	2.68	0.42
1:AA:988:G:C4'	1:AA:1014:A:H61	2.33	0.42
1:AA:1078:U:H5	1:AA:1079:G:N7	2.13	0.42
1:AA:1180:A:OP1	12:AL:102:LEU:CD1	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1189:C:C2'	1:AA:1190:G:H5'	2.50	0.42
1:AA:1240:U:O2'	1:AA:1241:G:OP1	2.38	0.42
1:AA:1240:U:H4'	1:AA:1241:G:OP2	2.20	0.42
1:AA:1279:A:O2'	1:AA:1282:C:C5	2.69	0.42
1:AA:1336:C:H1'	1:AA:1337:G:C6	2.55	0.42
1:AA:1394:A:N6	1:AA:1501:C:O4'	2.35	0.42
1:AA:1516:G:N2	1:AA:1518:A:P	2.93	0.42
1:AA:1531:A:O3'	1:AA:1532:U:O4'	2.38	0.42
1:AA:262:A:N1	1:AA:263:A:N1	2.67	0.42
1:AA:522:C:O4'	1:AA:536:C:H4'	2.19	0.42
1:AA:590:C:H2'	1:AA:591:U:O5'	2.20	0.42
1:AA:614:A:N1	1:AA:627:G:C6	2.87	0.42
1:AA:673:G:C2	1:AA:674:G:C6	3.07	0.42
1:AA:706:A:H1'	14:AN:29:ILE:HD12	2.01	0.42
1:AA:761:G:P	20:AT:102:GLY:HA3	2.60	0.42
1:AA:788:U:C2	1:AA:789:U:C2	3.08	0.42
1:AA:812:C:C4'	1:AA:813:U:H6	2.32	0.42
1:AA:939:G:C2	1:AA:940:C:C2	3.08	0.42
1:AA:952:U:O4	16:AP:104:ARG:CZ	2.68	0.42
2:AC:75:C:H6	2:AC:76:A:HO2'	1.60	0.42
3:AD:42:C:O2	3:AD:42:C:C2'	2.68	0.42
3:AD:49:G:N3	3:AD:49:G:C2'	2.81	0.42
5:AE:103:THR:O	5:AE:104:ASN:ND2	2.52	0.42
5:AE:157:ARG:O	5:AE:158:LEU:HG	2.19	0.42
5:AE:175:ARG:CA	5:AE:178:ARG:HB2	2.36	0.42
5:AE:15:VAL:CG2	5:AE:209:ARG:NH1	2.66	0.42
5:AE:74:LYS:HZ3	5:AE:76:GLN:CB	2.27	0.42
6:AF:124:ILE:HD11	6:AF:130:VAL:HG13	2.02	0.42
6:AF:150:LYS:HZ2	6:AF:152:ILE:CG2	2.33	0.42
6:AF:173:VAL:N	6:AF:174:PRO:CD	2.83	0.42
1:AA:1190:G:C5'	6:AF:176:HIS:NE2	2.82	0.42
6:AF:28:GLN:CD	6:AF:28:GLN:C	2.78	0.42
6:AF:39:ILE:HG21	6:AF:57:ILE:CD1	2.49	0.42
7:AG:173:TRP:CE2	7:AG:174:LEU:HG	2.55	0.42
7:AG:165:MET:HE1	7:AG:178:VAL:HG22	2.02	0.42
7:AG:60:GLU:CB	7:AG:202:LEU:HB3	2.50	0.42
7:AG:94:LEU:HD23	7:AG:97:LEU:HD12	2.02	0.42
8:AH:140:ARG:C	8:AH:141:GLN:O	2.57	0.42
1:AA:738:C:H5'	9:AI:72:VAL:CG2	2.50	0.42
9:AI:94:GLN:HB3	21:AU:32:ARG:NH2	2.32	0.42
10:AJ:46:ALA:N	10:AJ:117:ALA:HB1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:17:THR:CG2	11:AK:18:ARG:NH2	2.83	0.42
12:AL:118:LYS:O	12:AL:120:ARG:N	2.53	0.42
12:AL:17:VAL:HA	12:AL:63:ILE:HG13	2.01	0.42
12:AL:49:PRO:CD	12:AL:78:LYS:HZ3	2.29	0.42
13:AM:44:VAL:HG11	13:AM:64:GLU:OE2	2.20	0.42
13:AM:81:THR:O	13:AM:83:GLU:N	2.53	0.42
14:AN:85:ARG:CG	14:AN:85:ARG:NH1	2.83	0.42
15:AO:45:PRO:O	15:AO:46:LYS:O	2.38	0.42
15:AO:98:TYR:N	15:AO:98:TYR:CD1	2.88	0.42
16:AP:80:ARG:NH1	16:AP:80:ARG:CG	2.83	0.42
20:AT:62:SER:HB3	20:AT:72:ARG:CZ	2.44	0.42
21:AU:80:PRO:O	21:AU:81:PHE:C	2.58	0.42
1:AA:1313:U:OP2	22:AV:6:LYS:HA	2.20	0.42
22:AV:9:VAL:O	22:AV:9:VAL:HG12	2.19	0.42
23:AW:72:LEU:HD23	23:AW:76:ALA:HB1	2.00	0.42
24:AX:15:ARG:HD3	24:AX:15:ARG:HA	1.84	0.42
25:BA:931:G:N2	50:B2:21:ALA:O	2.53	0.42
50:B2:29:ARG:O	50:B2:30:ARG:O	2.37	0.42
51:B3:28:LYS:CG	51:B3:29:PRO:CD	2.94	0.42
51:B3:60:GLN:CG	51:B3:61:ARG:N	2.83	0.42
52:B4:58:LEU:O	52:B4:59:GLU:CB	2.56	0.42
53:B5:37:ARG:HD2	53:B5:51:GLU:OE2	2.19	0.42
25:BA:1309:G:C5'	54:B6:9:ARG:H	2.32	0.42
55:B7:40:GLU:HG2	55:B7:41:ILE:HG12	2.02	0.42
25:BA:1009:A:H3'	25:BA:1010:A:C8	2.55	0.42
25:BA:107:C:C2'	25:BA:108:U:O5'	2.68	0.42
25:BA:1133:U:H2'	25:BA:1134:G:OP2	2.20	0.42
25:BA:1143:A:C4	25:BA:1144:G:N7	2.88	0.42
25:BA:1178:C:N1	25:BA:1179:C:H5	2.16	0.42
25:BA:974:G:C4'	25:BA:1187:G:H1'	2.49	0.42
25:BA:1240:U:C2'	25:BA:1241:A:O4'	2.68	0.42
25:BA:1263:U:C5	25:BA:1264:G:C6	3.08	0.42
25:BA:1317:A:C8	25:BA:1318:C:C5	3.08	0.42
25:BA:1413:G:N2	25:BA:1414:G:H1'	2.35	0.42
25:BA:141:A:N3	25:BA:141(A):C:H5'	2.35	0.42
25:BA:1522:G:C8	25:BA:1522:G:H3'	2.55	0.42
25:BA:1608:A:C6	25:BA:1611:C:C2	3.08	0.42
25:BA:1635:G:C5'	25:BA:1635:G:C8	2.99	0.42
25:BA:1654:A:N1	25:BA:1655:A:N7	2.68	0.42
25:BA:1681:G:N2	25:BA:1763:G:P	2.78	0.42
25:BA:1861:G:O2'	25:BA:1862:G:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1872:A:C2'	25:BA:1878:G:C5'	2.84	0.42
25:BA:1945:G:H5'	25:BA:1945:G:H8	1.81	0.42
25:BA:1956:U:O5'	25:BA:1956:U:H6	2.03	0.42
25:BA:2075:U:H6	25:BA:2597:G:H21	1.64	0.42
25:BA:2195:C:HO2'	25:BA:2196:C:H5'	1.77	0.42
25:BA:2253:G:C5	25:BA:2254:C:C5	3.08	0.42
25:BA:2266:A:OP2	25:BA:2267:A:C4	2.73	0.42
25:BA:2298:A:H1'	25:BA:2322:A:H1'	2.00	0.42
25:BA:231:C:H42	25:BA:232:G:H22	1.62	0.42
25:BA:2350:C:N4	25:BA:2382:G:C6	2.87	0.42
25:BA:2403:C:N4	25:BA:2415:G:N1	2.68	0.42
25:BA:2468:G:O2'	25:BA:2469:A:OP2	2.38	0.42
25:BA:2470:G:O2'	25:BA:2471:C:O5'	2.37	0.42
25:BA:2488:A:C2'	25:BA:2489:G:O5'	2.68	0.42
25:BA:2565:A:O3'	25:BA:2566:A:C4'	2.68	0.42
25:BA:2547:U:C6	25:BA:2566:A:C6	3.08	0.42
25:BA:2595:G:H1'	25:BA:2599:G:H22	1.84	0.42
25:BA:273:G:C4	25:BA:273(A):G:C8	3.08	0.42
25:BA:2741:A:O5'	25:BA:2741:A:C8	2.73	0.42
25:BA:2779:U:C3'	25:BA:2779:U:C6	3.03	0.42
25:BA:2781:A:C6	25:BA:2782:G:N3	2.87	0.42
25:BA:2859:G:O5'	25:BA:2859:G:H8	2.03	0.42
25:BA:296:C:C2	25:BA:297:C:C6	3.08	0.42
25:BA:336:C:H5''	46:BX:6:HIS:NE2	2.35	0.42
25:BA:348:G:N3	25:BA:349:G:C8	2.88	0.42
25:BA:554:U:O2'	25:BA:556:G:C8	2.61	0.42
25:BA:563:G:H1	25:BA:578:A:N6	2.16	0.42
25:BA:595:C:O2'	25:BA:596:G:H5'	2.20	0.42
25:BA:729:G:O2'	28:BD:17:THR:CG2	2.66	0.42
25:BA:784:A:OP1	25:BA:2587:A:O2'	2.35	0.42
25:BA:83:G:O2'	25:BA:84:A:O5'	2.38	0.42
25:BA:954:G:O3'	38:BP:17:LEU:CD2	2.68	0.42
25:BA:989:G:H4'	25:BA:1157:G:H5''	2.01	0.42
26:BB:12:C:C5'	48:BZ:74:ARG:CG	2.75	0.42
27:BC:113:VAL:O	27:BC:144:THR:HG22	2.20	0.42
27:BC:7:TYR:CD2	27:BC:11:LEU:HD22	2.55	0.42
28:BD:77:ALA:O	28:BD:116:GLN:HA	2.20	0.42
28:BD:142:VAL:HB	28:BD:143:HIS:H	1.52	0.42
28:BD:14:ARG:O	28:BD:15:PHE:CG	2.72	0.42
28:BD:31:LYS:HD3	28:BD:83:GLU:CB	2.47	0.42
28:BD:43:ARG:O	28:BD:44:ASN:OD1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:7:LYS:HE2	28:BD:25:THR:HG21	2.00	0.42
28:BD:82:ILE:HG22	28:BD:83:GLU:H	1.82	0.42
28:BD:90:ALA:HA	28:BD:91:ARG:NH1	2.35	0.42
29:BE:159:HIS:C	29:BE:160:TYR:CD1	2.94	0.42
29:BE:51:PHE:O	29:BE:52:LEU:HB3	2.19	0.42
30:BF:33:LEU:CD1	30:BF:34:TRP:HE3	2.33	0.42
30:BF:5:ALA:HB2	30:BF:24:LEU:HG	2.02	0.42
30:BF:74:ARG:O	30:BF:75:HIS:HB2	2.19	0.42
31:BG:111:LEU:CG	31:BG:112:PRO:HD3	2.50	0.42
31:BG:30:GLU:CG	31:BG:33:ARG:HG2	2.50	0.42
31:BG:57:ALA:N	31:BG:68:PRO:HD2	2.34	0.42
32:BH:5:GLY:O	32:BH:6:ARG:NH2	2.53	0.42
25:BA:2198:A:C6	33:BK:29:TYR:HD2	2.38	0.42
33:BK:5:LEU:HA	33:BK:36:ALA:HB2	2.01	0.42
35:BM:35:ARG:HH11	35:BM:48:MET:CE	2.32	0.42
35:BM:55:VAL:O	35:BM:56:ASN:C	2.58	0.42
36:BN:117:LEU:C	36:BN:119:PRO:HD3	2.40	0.42
36:BN:77:ILE:HG21	41:BS:65:LYS:CE	2.50	0.42
37:BO:96:THR:HG21	37:BO:112:LEU:HD13	2.02	0.42
37:BO:126:VAL:HA	37:BO:146:VAL:N	2.24	0.42
37:BO:75:ILE:HG22	37:BO:115:LEU:HD11	2.01	0.42
38:BP:137:TYR:CD2	38:BP:138:ASP:N	2.87	0.42
39:BQ:81:ASP:O	39:BQ:85:PRO:HG2	2.20	0.42
39:BQ:97:VAL:HG13	39:BQ:114:VAL:CG2	2.50	0.42
40:BR:16:ASN:ND2	40:BR:17:ARG:N	2.68	0.42
40:BR:24:LEU:HG	40:BR:41:ASP:CB	2.50	0.42
40:BR:57:LYS:NZ	40:BR:62:LYS:HB3	2.34	0.42
40:BR:69:VAL:O	40:BR:73:LEU:CD2	2.65	0.42
40:BR:76:LYS:CG	40:BR:77:ALA:N	2.71	0.42
1:AA:1431:C:H5"	41:BS:110:ILE:HG21	2.00	0.42
36:BN:77:ILE:CG2	41:BS:75:ILE:HD12	2.44	0.42
42:BT:16:LYS:CB	42:BT:16:LYS:NZ	2.82	0.42
42:BT:23:GLY:CA	42:BT:29:SER:HB2	2.47	0.42
43:BU:12:TYR:CD2	43:BU:13:ARG:N	2.87	0.42
44:BV:10:VAL:HG23	44:BV:10:VAL:O	2.19	0.42
44:BV:19:LEU:HA	44:BV:22:ASP:OD1	2.19	0.42
44:BV:58:ALA:HB3	44:BV:69:LEU:HD21	2.02	0.42
46:BX:99:CYS:C	46:BX:100:ALA:O	2.55	0.42
46:BX:35:TYR:O	46:BX:64:GLU:CA	2.68	0.42
46:BX:46:LYS:O	46:BX:48:ALA:N	2.53	0.42
46:BX:67:LEU:HD11	46:BX:71:LYS:HZ1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:111:VAL:CG2	47:BY:117:LEU:CD2	2.94	0.42
25:BA:1085:A:C8	25:BA:1086:A:H1'	2.55	0.42
34:BL:132:ARG:HE	34:BL:138:VAL:HG13	1.85	0.42
34:BL:37:PHE:CE2	34:BL:57:ILE:HB	2.54	0.42
1:AA:96:G:H2'	1:AA:97:U:H6	1.85	0.42
4:A1:10:G:C4	4:A1:11:U:C5	3.07	0.42
3:AD:7:G:N2	3:AD:67:C:C2	2.88	0.42
25:BA:276:A:OP2	25:BA:276:A:C4'	2.68	0.42
25:BA:2669:G:C2'	25:BA:2670:A:O5'	2.67	0.42
1:AA:1062:U:N3	1:AA:1063:C:N4	2.67	0.41
1:AA:1124:G:C8	1:AA:1145:C:H2'	2.53	0.41
1:AA:1154:G:O2'	1:AA:1155:G:H5'	2.20	0.41
1:AA:116:A:H8	1:AA:116:A:O5'	2.03	0.41
1:AA:1193:G:C2'	1:AA:1194:U:O5'	2.67	0.41
1:AA:1242:C:C5'	24:AX:10:ARG:HH12	2.33	0.41
1:AA:1316:G:H8	1:AA:1316:G:P	2.43	0.41
1:AA:1305:G:N2	1:AA:1332:A:OP2	2.53	0.41
1:AA:1357:A:N7	1:AA:1358:U:C5	2.88	0.41
1:AA:135:C:C2	19:AS:1:MET:HG2	2.54	0.41
1:AA:1315:U:HO2'	1:AA:1360:A:C1'	2.32	0.41
1:AA:1430:C:H6	1:AA:1430:C:O5'	2.03	0.41
1:AA:1452:C:H5'	1:AA:1453:G:C4	2.55	0.41
1:AA:1475:G:N3	1:AA:1476:G:C8	2.88	0.41
1:AA:1521:G:C2'	1:AA:1522:U:O5'	2.68	0.41
1:AA:15:G:H2'	1:AA:16:A:H8	1.80	0.41
1:AA:67:C:C1'	1:AA:172:A:H1'	2.50	0.41
1:AA:330:C:O2'	1:AA:331:G:H5'	2.19	0.41
1:AA:374:A:C2'	1:AA:375:U:H5'	2.50	0.41
1:AA:61:G:N2	1:AA:379:C:H5'	2.34	0.41
1:AA:439:A:N3	1:AA:496:A:C2	2.88	0.41
1:AA:50:A:N6	1:AA:361:G:O4'	2.53	0.41
1:AA:529:G:O6	15:AO:49:ASN:HB3	2.20	0.41
1:AA:540:G:H21	7:AG:42:GLN:CD	2.22	0.41
1:AA:613:C:O2'	1:AA:614:A:H5'	2.19	0.41
1:AA:693:G:H5'	4:A1:13:A:H62	1.85	0.41
1:AA:774:G:N2	1:AA:775:G:H1'	2.35	0.41
1:AA:874:G:H2'	1:AA:875:C:C5'	2.50	0.41
1:AA:919:A:N1	1:AA:920:U:C4	2.88	0.41
1:AA:957:U:O2	1:AA:960:U:C6	2.73	0.41
2:AC:18:G:H4'	2:AC:60:U:O2	2.20	0.41
3:AD:18:G:N1	3:AD:57:G:C2	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:63:G:C6	3:AD:64:C:N4	2.88	0.41
5:AE:115:LEU:HD13	5:AE:145:LEU:CB	2.49	0.41
5:AE:193:ASP:OD2	5:AE:196:LEU:CD1	2.68	0.41
5:AE:33:TYR:CG	5:AE:43:ASP:HB2	2.55	0.41
5:AE:47:THR:HG22	5:AE:48:MET:SD	2.60	0.41
5:AE:7:VAL:CG2	5:AE:8:LYS:N	2.82	0.41
5:AE:92:TYR:O	5:AE:152:PHE:HB2	2.20	0.41
6:AF:152:ILE:O	6:AF:198:VAL:HB	2.20	0.41
1:AA:5:U:O4	7:AG:86:LYS:HD3	2.20	0.41
9:AI:22:GLU:O	9:AI:25:ILE:HB	2.20	0.41
11:AK:5:PRO:O	11:AK:6:ILE:C	2.57	0.41
12:AL:72:GLY:CA	12:AL:75:ASP:OD1	2.68	0.41
14:AN:15:ALA:HA	14:AN:76:GLY:O	2.20	0.41
14:AN:83:ILE:CD1	14:AN:83:ILE:N	2.82	0.41
15:AO:88:GLY:O	15:AO:90:VAL:HG23	2.20	0.41
16:AP:15:VAL:HG12	16:AP:16:ASP:N	2.34	0.41
16:AP:24:GLY:O	16:AP:25:ILE:HG12	2.20	0.41
16:AP:70:LEU:O	16:AP:73:GLU:HB3	2.20	0.41
1:AA:1317:C:C4	17:AQ:16:PHE:CD1	3.08	0.41
17:AQ:24:CYS:CA	17:AQ:39:LEU:HA	2.48	0.41
17:AQ:53:LEU:HA	17:AQ:54:PRO:HD2	1.79	0.41
18:AR:17:ARG:HH11	18:AR:17:ARG:CG	2.33	0.41
18:AR:15:PHE:HB3	18:AR:26:GLU:HB3	2.01	0.41
18:AR:54:ARG:O	18:AR:55:GLY:C	2.57	0.41
21:AU:33:ASP:C	21:AU:34:TYR:CG	2.94	0.41
1:AA:1270:C:P	24:AX:24:ARG:NH2	2.93	0.41
51:B3:3:GLU:HB2	51:B3:43:TYR:OH	2.20	0.41
25:BA:1264:G:P	52:B4:10:LYS:HZ2	2.43	0.41
54:B6:45:ALA:O	54:B6:47:ARG:N	2.53	0.41
55:B7:25:MET:CE	55:B7:44:LYS:HE3	2.50	0.41
56:B8:17:ILE:CD1	56:B8:26:ILE:HB	2.41	0.41
25:BA:1128:A:N3	25:BA:1128:A:O2'	2.53	0.41
25:BA:1022:G:N7	25:BA:1139:G:C6	2.88	0.41
25:BA:1155:A:OP1	42:BT:55:ARG:HB3	2.19	0.41
25:BA:974:G:C4'	25:BA:1187:G:C1'	2.98	0.41
25:BA:1199:U:OP2	25:BA:1199:U:C6	2.73	0.41
25:BA:1201:C:C2	25:BA:1245:G:C2	3.08	0.41
25:BA:1228:G:H2'	25:BA:1229:G:O5'	2.19	0.41
25:BA:1255:U:H5''	25:BA:1256:G:H5''	1.85	0.41
25:BA:135:G:C2	25:BA:145:G:C4	3.08	0.41
25:BA:1429:G:C3'	25:BA:1430:C:H6	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1444(A):A:C2'	25:BA:1460:A:O2'	2.68	0.41
25:BA:1453:A:H2'	25:BA:1453:A:N3	2.34	0.41
25:BA:1494:A:C6	25:BA:1495:A:C4	3.09	0.41
25:BA:1509:C:C2'	25:BA:1510:A:OP1	2.68	0.41
25:BA:1352:U:O2'	25:BA:1570:A:N3	2.46	0.41
25:BA:1587:A:C4	25:BA:1588:C:C5	3.07	0.41
25:BA:1613:G:N2	25:BA:1619:G:C4	2.88	0.41
25:BA:1676:A:C2'	25:BA:1677:A:H8	2.33	0.41
25:BA:1718:G:C8	25:BA:1718:G:H3'	2.55	0.41
25:BA:1742:C:C2'	25:BA:1743:G:C4'	2.97	0.41
25:BA:118:A:HO2'	25:BA:178:G:H5'	1.81	0.41
25:BA:1864:U:O2'	25:BA:1869:G:H5'	2.19	0.41
25:BA:1903:G:C6	25:BA:1904:G:N7	2.87	0.41
25:BA:1913:A:C2	25:BA:1916:A:C2	3.08	0.41
25:BA:2090:G:C6	25:BA:2091:U:O4	2.73	0.41
25:BA:2137:C:O2'	25:BA:2138:C:H5'	2.20	0.41
25:BA:2140:C:O2'	25:BA:2141:G:H5'	2.20	0.41
25:BA:2127:G:C5	25:BA:2162:G:N1	2.87	0.41
25:BA:2379:G:C6	25:BA:2380:C:C4	3.07	0.41
25:BA:2432:A:H61	51:B3:31:ILE:HG12	1.85	0.41
25:BA:2457:U:O5'	25:BA:2457:U:H6	2.03	0.41
25:BA:250:G:N1	25:BA:251:A:C5	2.88	0.41
25:BA:2559:C:HO2'	25:BA:2560:C:H5'	1.82	0.41
2:AC:75:C:P	25:BA:2602:A:H5'	2.60	0.41
25:BA:262:A:C2	25:BA:430:G:N3	2.88	0.41
25:BA:2740:A:H2'	25:BA:2740:A:N3	2.35	0.41
25:BA:2740:A:C5	25:BA:2741:A:N6	2.88	0.41
25:BA:2740:A:C5	25:BA:2764:A:C4	3.08	0.41
25:BA:2767:C:C2'	25:BA:2768:C:O5'	2.68	0.41
25:BA:2822:G:OP2	39:BQ:4:LEU:CD1	2.62	0.41
25:BA:2826:A:C2'	25:BA:2827:C:H5'	2.49	0.41
25:BA:283:A:C3'	25:BA:284:U:H6	2.27	0.41
25:BA:1710:C:C1'	25:BA:2858:C:H42	2.31	0.41
25:BA:2867:G:H5'	25:BA:2868:A:O5'	2.18	0.41
25:BA:287:C:C2'	25:BA:287:C:O2	2.67	0.41
25:BA:308:G:C8	25:BA:501:A:C4	3.07	0.41
25:BA:352:G:N2	25:BA:353:G:O4'	2.53	0.41
25:BA:363(D):G:H2'	25:BA:363(E):U:C6	2.55	0.41
25:BA:488:G:O2'	25:BA:491:G:N7	2.46	0.41
25:BA:502:A:H2'	25:BA:503:A:H8	1.85	0.41
25:BA:533:G:H1'	25:BA:561:G:N2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:535:C:C2'	25:BA:536:A:H5'	2.50	0.41
25:BA:569:U:H6	25:BA:569:U:O5'	2.02	0.41
25:BA:571:A:C6	25:BA:575:A:C8	3.08	0.41
25:BA:586:A:N1	25:BA:809:G:H2'	2.35	0.41
25:BA:237:C:O2'	25:BA:608:A:H4'	2.20	0.41
25:BA:656:G:O2'	25:BA:657:U:C5'	2.68	0.41
25:BA:671:C:C2	25:BA:672:C:C5	3.08	0.41
25:BA:709:U:C6	25:BA:709:U:H3'	2.55	0.41
25:BA:785:G:N3	25:BA:786:C:C5	2.88	0.41
25:BA:787:U:H3'	25:BA:791:C:C5	2.55	0.41
25:BA:813:U:H4'	25:BA:1226:G:H5'	2.02	0.41
25:BA:950:G:O6	25:BA:968:G:C6	2.73	0.41
27:BC:200:LYS:CG	27:BC:208:PHE:HD2	2.30	0.41
27:BC:36:LYS:O	27:BC:37:PHE:CB	2.68	0.41
27:BC:91:ALA:HB3	27:BC:94:VAL:HG22	2.02	0.41
28:BD:15:PHE:C	28:BD:17:THR:N	2.73	0.41
28:BD:206:LEU:HB2	28:BD:212:SER:CB	2.50	0.41
28:BD:246:PRO:O	28:BD:247:ALA:C	2.58	0.41
28:BD:183:ARG:HH12	28:BD:268:ARG:HD2	1.85	0.41
25:BA:1656:C:H5'	29:BE:136:ARG:NE	2.35	0.41
29:BE:13:ARG:CZ	29:BE:21:VAL:N	2.83	0.41
29:BE:159:HIS:NE2	29:BE:162:ALA:HB3	2.34	0.41
29:BE:14:ILE:HG22	29:BE:19:ARG:HA	2.02	0.41
29:BE:49:LEU:HG	29:BE:74:PRO:CB	2.50	0.41
29:BE:61:ARG:N	29:BE:62:PRO:CD	2.82	0.41
30:BF:200:GLU:O	30:BF:204:ASN:OD1	2.38	0.41
30:BF:26:ALA:O	30:BF:112:MET:HE2	2.20	0.41
30:BF:41:LEU:HD12	30:BF:42:ALA:N	2.35	0.41
31:BG:140:ILE:C	31:BG:142:PRO:CD	2.89	0.41
31:BG:60:LEU:CA	31:BG:63:ILE:HG22	2.50	0.41
31:BG:75:LYS:HD3	31:BG:85:GLY:CA	2.49	0.41
32:BH:128:PRO:O	32:BH:131:VAL:CG1	2.65	0.41
33:BK:34:GLY:N	33:BK:35:LEU:HD22	2.33	0.41
35:BM:27:ALA:HB1	35:BM:106:MET:HE2	2.02	0.41
35:BM:139:GLU:O	35:BM:140:VAL:CG2	2.68	0.41
35:BM:15:LEU:C	35:BM:16:ILE:HD12	2.39	0.41
35:BM:18:ALA:N	35:BM:21:LYS:HD2	2.35	0.41
36:BN:77:ILE:C	36:BN:78:ARG:NH1	2.74	0.41
36:BN:78:ARG:NH1	36:BN:78:ARG:HG2	2.35	0.41
38:BP:70:PRO:O	38:BP:94:VAL:O	2.38	0.41
39:BQ:31:HIS:HD2	39:BQ:34:ILE:HD11	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BQ:63:ARG:O	39:BQ:67:LEU:HB3	2.20	0.41
40:BR:14:VAL:HG12	40:BR:15:ARG:CG	2.43	0.41
40:BR:40:ILE:HG23	40:BR:46:VAL:O	2.20	0.41
41:BS:33:LYS:HB2	41:BS:87:ASP:CB	2.50	0.41
41:BS:59:THR:O	41:BS:81:PRO:HG2	2.20	0.41
25:BA:1218:C:OP2	42:BT:15:LYS:HE3	2.20	0.41
42:BT:91:ASP:O	42:BT:95:LEU:CG	2.67	0.41
43:BU:3:ALA:C	43:BU:12:TYR:HE2	2.22	0.41
43:BU:78:LYS:HB3	43:BU:78:LYS:NZ	2.26	0.41
45:BW:43:VAL:O	45:BW:47:PHE:HB2	2.19	0.41
45:BW:85:PRO:HG2	45:BW:87:GLN:HE21	1.85	0.41
46:BX:95:LYS:CG	46:BX:103:GLY:HA3	2.43	0.41
46:BX:47:LYS:HE2	46:BX:49:VAL:CG1	2.47	0.41
46:BX:54:LYS:HD2	46:BX:54:LYS:O	2.20	0.41
47:BY:135:GLU:C	47:BY:136:PHE:CD1	2.93	0.41
47:BY:138:GLU:C	47:BY:139:VAL:HG23	2.41	0.41
26:BB:103:U:O2	47:BY:72:ARG:CD	2.68	0.41
48:BZ:19:LYS:CG	48:BZ:20:ARG:N	2.76	0.41
48:BZ:33:ALA:HB2	48:BZ:63:VAL:N	2.35	0.41
33:BK:112:LYS:H	33:BK:112:LYS:HG3	1.68	0.41
33:BK:113:ARG:HA	33:BK:131:LYS:HZ2	1.85	0.41
33:BK:72:LEU:HD12	33:BK:138:ILE:HD13	2.01	0.41
33:BK:54:GLN:CD	33:BK:57:ARG:HE	2.23	0.41
33:BK:57:ARG:HG2	33:BK:61:ARG:HE	1.85	0.41
25:BA:1097:U:C2'	25:BA:1098:A:O5'	2.68	0.41
34:BL:79:ARG:CD	34:BL:134:MET:CE	2.98	0.41
34:BL:27:LEU:CD1	34:BL:57:ILE:HD11	2.49	0.41
26:BB:87:G:H2'	26:BB:87:G:N3	2.35	0.41
1:AA:1032(B):G:N2	1:AA:1033:G:C2	2.88	0.41
26:BB:117:G:N3	26:BB:118:G:C8	2.87	0.41
3:AD:30:G:C6	3:AD:31:A:N6	2.88	0.41
14:AN:86:GLY:HA2	14:AN:112:THR:CG2	2.47	0.41
14:AN:114:VAL:HG23	14:AN:115:PRO:CD	2.48	0.41
1:AA:930:C:H2'	1:AA:931:C:H6	1.85	0.41
1:AA:456:C:C3'	1:AA:456:C:C6	3.03	0.41
1:AA:103:C:C2	1:AA:104:G:C8	3.08	0.41
1:AA:1092:A:N7	1:AA:1093:A:N6	2.68	0.41
1:AA:1154:G:C2	1:AA:1155:G:C5	3.08	0.41
1:AA:1187:G:C6	1:AA:1188:A:N6	2.88	0.41
1:AA:124:G:N2	1:AA:238:G:N9	2.68	0.41
1:AA:1306:A:H2'	1:AA:1307:U:O4'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1399:C:HO2'	1:AA:1400:C:P	2.39	0.41
1:AA:1412:C:C2	1:AA:1413:A:N7	2.88	0.41
1:AA:1498:U:HO2'	1:AA:1499:A:C5'	2.33	0.41
1:AA:1516:G:N2	1:AA:1518:A:H3'	2.32	0.41
1:AA:151:A:C5	1:AA:152:A:C2	3.08	0.41
1:AA:382:A:O2'	1:AA:383:A:C5'	2.68	0.41
1:AA:413:G:H2'	1:AA:414:A:OP2	2.20	0.41
1:AA:497:U:O2	1:AA:498:A:C8	2.73	0.41
1:AA:598:U:C2	1:AA:599:C:C6	3.08	0.41
1:AA:66:G:OP2	1:AA:66:G:H8	2.01	0.41
1:AA:974:A:C5'	1:AA:975:A:OP1	2.68	0.41
2:AC:11:A:C2'	2:AC:12:G:O5'	2.67	0.41
2:AC:35:A:C6	4:A1:18:G:N1	2.87	0.41
2:AC:36:U:C6	2:AC:36:U:H5''	2.55	0.41
2:AC:9:G:N2	2:AC:46:G:C8	2.89	0.41
3:AD:21:A:N6	3:AD:48:C:C6	2.88	0.41
5:AE:168:THR:HG21	5:AE:192:SER:C	2.40	0.41
5:AE:172:ILE:O	5:AE:173:ALA:C	2.56	0.41
5:AE:80:ILE:CD1	5:AE:208:ILE:HG12	2.51	0.41
5:AE:224:GLN:O	5:AE:225:ALA:C	2.58	0.41
5:AE:25:ASN:ND2	5:AE:27:LYS:CB	2.83	0.41
6:AF:114:PRO:O	6:AF:117:ALA:HB3	2.21	0.41
6:AF:136:GLN:O	6:AF:137:ALA:C	2.57	0.41
6:AF:39:ILE:O	6:AF:40:ARG:C	2.56	0.41
6:AF:58:GLU:HB2	6:AF:65:ALA:HB2	2.01	0.41
7:AG:158:ILE:HG22	7:AG:162:LEU:HG	2.00	0.41
7:AG:76:ARG:HG3	7:AG:207:TYR:CE2	2.55	0.41
7:AG:58:LEU:CD2	7:AG:62:GLN:HG3	2.50	0.41
7:AG:61:LYS:HA	7:AG:203:VAL:HG22	1.97	0.41
7:AG:61:LYS:HE3	7:AG:61:LYS:C	2.41	0.41
8:AH:61:TYR:O	8:AH:64:ARG:N	2.53	0.41
10:AJ:24:THR:O	10:AJ:28:ASN:HB2	2.20	0.41
11:AK:17:THR:HG22	11:AK:78:GLN:NE2	2.35	0.41
12:AL:10:ARG:HD3	12:AL:104:ARG:O	2.19	0.41
12:AL:6:GLY:CA	12:AL:84:ALA:N	2.83	0.41
12:AL:4:TYR:CD2	12:AL:88:TYR:HA	2.55	0.41
13:AM:23:ILE:CG2	13:AM:72:VAL:HG11	2.50	0.41
15:AO:45:PRO:CB	15:AO:49:ASN:O	2.68	0.41
16:AP:97:PRO:HD3	16:AP:110:ARG:HG2	2.02	0.41
16:AP:37:THR:CG2	16:AP:38:GLY:N	2.82	0.41
16:AP:48:LEU:HD23	16:AP:52:GLU:HB2	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:6:GLY:C	31:BG:115:ARG:HH22	2.24	0.41
16:AP:88:ARG:NE	16:AP:92:HIS:HD2	2.17	0.41
17:AQ:13:THR:N	17:AQ:14:PRO:CD	2.82	0.41
1:AA:754:C:H1'	18:AR:69:TYR:CD2	2.55	0.41
19:AS:66:PRO:CG	19:AS:71:ARG:HB2	2.50	0.41
20:AT:53:LEU:CD1	20:AT:85:VAL:HG22	2.40	0.41
21:AU:21:LYS:CG	21:AU:22:VAL:H	2.33	0.41
1:AA:61:G:OP2	23:AW:10:LEU:HD13	2.20	0.41
23:AW:13:LEU:HB2	23:AW:17:ARG:NH2	2.31	0.41
23:AW:19:SER:OG	23:AW:20:LEU:HD23	2.19	0.41
24:AX:18:TYR:HA	24:AX:22:ARG:HB2	2.02	0.41
50:B2:23:LEU:O	50:B2:24:LYS:C	2.58	0.41
50:B2:7:LYS:C	50:B2:54:VAL:HG23	2.40	0.41
25:BA:1365:A:OP2	51:B3:3:GLU:CD	2.58	0.41
25:BA:2047:U:OP1	52:B4:23:HIS:NE2	2.53	0.41
53:B5:32:ASN:HD21	53:B5:34:LEU:CD2	2.33	0.41
55:B7:33:ASN:N	55:B7:33:ASN:OD1	2.53	0.41
56:B8:19:ARG:CZ	56:B8:24:TYR:CD2	3.02	0.41
25:BA:1011:G:OP2	42:BT:75:ASN:CB	2.66	0.41
25:BA:1028:A:C2	25:BA:2486:G:O2'	2.72	0.41
25:BA:1181:C:C2'	25:BA:1182:A:C8	2.91	0.41
25:BA:1214:A:C2	25:BA:1215:G:C4	3.09	0.41
25:BA:1238:G:C2'	25:BA:1239:G:C5'	2.86	0.41
25:BA:1270:C:O4'	25:BA:1325:G:C6	2.73	0.41
25:BA:1308:A:H2'	25:BA:1309:G:C8	2.54	0.41
25:BA:1327:C:C2'	25:BA:1327:C:O2	2.68	0.41
25:BA:1360:A:N7	25:BA:1361:G:C5	2.88	0.41
25:BA:1391:U:C2	25:BA:1394:U:H5	2.37	0.41
25:BA:1439:A:C4	25:BA:1553:A:N6	2.88	0.41
25:BA:1465:G:C4	25:BA:1466:G:C8	3.08	0.41
25:BA:1484:G:N1	25:BA:1485:G:C4	2.88	0.41
25:BA:1587:A:C6	25:BA:1588:C:N4	2.88	0.41
25:BA:1620:G:H2'	25:BA:1621:U:O5'	2.19	0.41
25:BA:1656:C:H3'	25:BA:1657:C:C5	2.54	0.41
25:BA:1699:G:O2'	25:BA:1700:A:P	2.78	0.41
25:BA:1743:G:H3'	25:BA:1746:G:C8	2.51	0.41
25:BA:1761:C:C5	25:BA:1762:A:H1'	2.55	0.41
25:BA:1788:C:H2'	28:BD:222:ARG:NE	2.32	0.41
25:BA:1947:C:C4	25:BA:1948:G:N7	2.88	0.41
25:BA:1268:A:N9	25:BA:2013:A:N6	2.68	0.41
25:BA:2205:C:C2'	25:BA:2206:C:C5'	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2246:G:C4	25:BA:2247:A:N7	2.88	0.41
25:BA:2253:G:O2'	25:BA:2254:C:OP1	2.35	0.41
25:BA:225:A:N6	25:BA:226:G:C6	2.88	0.41
25:BA:2280:G:C6	25:BA:2281:C:C4	3.08	0.41
25:BA:2300:G:C6	25:BA:2301:C:C4	3.08	0.41
25:BA:2258:C:C4	25:BA:2426:A:C4'	3.03	0.41
25:BA:2436:G:C4	25:BA:2437:U:C6	3.08	0.41
25:BA:2448:A:OP1	25:BA:2498:C:OP1	2.37	0.41
25:BA:2468:G:C8	25:BA:2476:A:C2	3.09	0.41
25:BA:2468:G:H3'	25:BA:2476:A:N1	2.35	0.41
25:BA:2636:U:OP1	29:BE:79:ARG:N	2.21	0.41
25:BA:2752:C:C6	25:BA:2752:C:OP1	2.64	0.41
25:BA:2783:G:N1	25:BA:2784:C:N3	2.69	0.41
25:BA:2840:C:N3	25:BA:2841:C:C5	2.88	0.41
25:BA:2854:G:H2'	25:BA:2855:C:C6	2.55	0.41
25:BA:2866:U:H1'	25:BA:2868:A:O4'	2.19	0.41
25:BA:2884:U:H2'	25:BA:2885:C:C5'	2.49	0.41
25:BA:308:G:N7	25:BA:501:A:N3	2.68	0.41
25:BA:339:U:C2	25:BA:340:A:C6	3.08	0.41
25:BA:379:G:N2	25:BA:396:G:C4	2.87	0.41
25:BA:449:A:C2'	25:BA:450:G:H5'	2.50	0.41
25:BA:470:A:H2	25:BA:471:A:H1'	1.62	0.41
25:BA:489:G:N3	25:BA:489:G:H2'	2.34	0.41
25:BA:527:C:O2	25:BA:528:A:N6	2.53	0.41
25:BA:533:G:H3'	25:BA:534:U:H6	1.85	0.41
25:BA:623:G:N7	25:BA:624:C:C4	2.88	0.41
25:BA:690:G:O2'	25:BA:780:G:P	2.78	0.41
25:BA:709:U:C6	25:BA:709:U:C3'	3.02	0.41
25:BA:70:G:H3'	25:BA:113:G:HO2'	1.80	0.41
25:BA:709:U:C2'	25:BA:710:G:O4'	2.68	0.41
25:BA:768:G:H2'	25:BA:769:G:C8	2.48	0.41
25:BA:813:U:H4'	25:BA:1225:C:O2'	2.20	0.41
25:BA:824:A:C4	25:BA:825:C:C4	3.08	0.41
25:BA:886:C:C6	25:BA:886:C:O5'	2.63	0.41
25:BA:890:A:C5'	25:BA:892:G:OP1	2.68	0.41
25:BA:569:U:H5'	25:BA:946:G:O2'	2.20	0.41
25:BA:957:A:OP2	38:BP:77:LYS:CD	2.62	0.41
25:BA:967:C:C2	25:BA:968:G:C8	3.08	0.41
26:BB:25:A:HO2'	26:BB:26:A:H5'	1.84	0.41
26:BB:33:G:C3'	26:BB:34:U:H6	2.33	0.41
26:BB:62:C:O2'	26:BB:63:G:C5'	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:916:G:H4'	26:BB:99:A:O2'	2.20	0.41
26:BB:9:G:OP1	40:BR:18:ILE:HD11	2.20	0.41
27:BC:161:ILE:CD1	27:BC:161:ILE:N	2.69	0.41
27:BC:190:ARG:HA	27:BC:193:ILE:CD1	2.50	0.41
27:BC:200:LYS:CG	27:BC:208:PHE:CD2	3.03	0.41
28:BD:208:LYS:HE2	28:BD:211:ARG:CD	2.49	0.41
28:BD:70:TRP:CA	28:BD:70:TRP:CE3	3.01	0.41
25:BA:2579:C:C3'	29:BE:132:HIS:CE1	3.03	0.41
29:BE:101:ARG:HH22	29:BE:171:GLU:HG2	1.85	0.41
29:BE:184:VAL:O	29:BE:185:LYS:HD3	2.20	0.41
29:BE:47:VAL:CG2	29:BE:79:ARG:HD2	2.50	0.41
29:BE:93:VAL:CG1	29:BE:180:ASN:ND2	2.83	0.41
25:BA:659:C:C4'	30:BF:102:PRO:HD2	2.50	0.41
30:BF:132:VAL:HG13	30:BF:138:GLU:OE1	2.19	0.41
31:BG:8:LYS:HB2	31:BG:104:GLU:HB2	2.03	0.41
31:BG:101:ILE:C	31:BG:104:GLU:HB3	2.41	0.41
31:BG:14:GLU:OE1	31:BG:15:VAL:CG1	2.67	0.41
31:BG:44:GLY:C	31:BG:47:LYS:HB3	2.41	0.41
31:BG:65:GLY:O	31:BG:66:GLN:HB2	2.20	0.41
31:BG:72:ARG:CG	31:BG:88:ILE:HG12	2.49	0.41
32:BH:11:VAL:HG23	32:BH:50:VAL:CG2	2.36	0.41
32:BH:148:ILE:HG23	32:BH:149:ARG:N	2.35	0.41
33:BK:31:LEU:CD1	33:BK:37:VAL:O	2.68	0.41
35:BM:34:LEU:HB3	35:BM:116:LEU:HD13	2.00	0.41
35:BM:51:PHE:CE1	35:BM:119:ARG:CD	3.03	0.41
35:BM:67:LEU:HD22	35:BM:70:LYS:HZ1	1.76	0.41
36:BN:113:LYS:NZ	36:BN:117:LEU:HB2	2.35	0.41
36:BN:70:LYS:HB3	36:BN:72:PRO:HD2	2.01	0.41
36:BN:80:ASP:OD2	36:BN:99:PHE:CE1	2.73	0.41
37:BO:73:GLY:C	37:BO:107:LYS:HE3	2.41	0.41
37:BO:111:ARG:HH21	37:BO:129:ALA:HB2	1.85	0.41
38:BP:9:TYR:HD1	38:BP:10:ARG:CZ	2.33	0.41
39:BQ:59:ASP:N	39:BQ:80:PHE:CE2	2.82	0.41
40:BR:33:LYS:CD	40:BR:54:LEU:CD2	2.96	0.41
40:BR:41:ASP:N	40:BR:41:ASP:OD2	2.52	0.41
40:BR:64:GLU:O	40:BR:68:GLN:HB2	2.20	0.41
42:BT:15:LYS:N	42:BT:18:LEU:HD21	2.35	0.41
43:BU:21:ARG:NH1	43:BU:21:ARG:CG	2.81	0.41
43:BU:93:GLU:CG	43:BU:95:LEU:HD23	2.50	0.41
44:BV:86:LEU:HG	44:BV:87:PRO:CD	2.49	0.41
45:BW:29:TRP:CE3	45:BW:76:ARG:NE	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BW:9:LEU:N	45:BW:9:LEU:CD1	2.80	0.41
46:BX:12:THR:CG2	46:BX:70:SER:O	2.68	0.41
46:BX:8:LYS:HZ1	46:BX:28:LYS:HG3	1.85	0.41
46:BX:43:ASN:ND2	46:BX:57:GLN:OE1	2.52	0.41
46:BX:95:LYS:HE2	46:BX:97:ARG:NH1	2.35	0.41
47:BY:104:PHE:HE1	47:BY:171:ILE:CD1	2.24	0.41
47:BY:39:VAL:HG12	47:BY:39:VAL:O	2.20	0.41
47:BY:95:PRO:HD2	47:BY:130:PRO:C	2.41	0.41
48:BZ:76:GLY:C	48:BZ:78:TYR:HE1	2.24	0.41
34:BL:108:ALA:CB	34:BL:127:ILE:HD11	2.50	0.41
1:AA:1028:C:N3	1:AA:1028(A):C:C4	2.88	0.41
1:AA:81:G:N3	1:AA:81:G:H2'	2.34	0.41
1:AA:82:U:O2	1:AA:87:A:C2	2.73	0.41
4:A1:2:G:H2'	4:A1:3:C:C6	2.55	0.41
1:AA:525:C:C5	1:AA:526:C:C5	3.08	0.41
1:AA:110:C:H2'	1:AA:111:G:H5'	2.03	0.41
1:AA:1113:C:H2'	1:AA:1114:C:C6	2.47	0.41
1:AA:1159:U:C5'	1:AA:1160:G:OP1	2.63	0.41
1:AA:1222:G:C2	1:AA:1223:C:C2	3.08	0.41
1:AA:1261:A:H2'	1:AA:1262:C:C6	2.55	0.41
1:AA:1315:U:O2'	1:AA:1360:A:C2'	2.69	0.41
1:AA:1360:A:N3	1:AA:1360:A:H2'	2.35	0.41
1:AA:1234:C:C4'	1:AA:1364:U:H1'	2.50	0.41
1:AA:1381:U:O2	10:AJ:79:ARG:HG3	2.20	0.41
1:AA:925:G:C6	1:AA:1392:G:C6	3.09	0.41
1:AA:1417:G:HO2'	1:AA:1418:A:P	2.44	0.41
1:AA:59:A:C8	1:AA:354:G:N1	2.88	0.41
1:AA:46:G:N3	1:AA:396:G:N1	2.68	0.41
1:AA:475:G:C2	1:AA:476:G:N7	2.88	0.41
1:AA:483:C:H6	1:AA:483:C:O5'	2.03	0.41
1:AA:511:C:O2'	1:AA:512:U:C6	2.61	0.41
1:AA:518:C:C2'	1:AA:530:G:C8	3.00	0.41
1:AA:602:A:H2'	1:AA:603:U:C6	2.55	0.41
1:AA:60:A:O2'	1:AA:61:G:P	2.79	0.41
1:AA:620:C:H2'	1:AA:621:A:O4'	2.21	0.41
1:AA:627:G:HO2'	1:AA:628:G:H5'	1.78	0.41
1:AA:654:G:H1	1:AA:754:C:H42	1.63	0.41
1:AA:872:A:N1	1:AA:874:G:O6	2.53	0.41
1:AA:907:A:C6	1:AA:908:A:C6	3.08	0.41
1:AA:970:C:H4'	1:AA:972:C:H5	1.79	0.41
3:AD:55:U:C6	3:AD:55:U:H3'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:117:GLU:C	5:AE:117:GLU:CD	2.78	0.41
5:AE:138:LEU:HA	5:AE:141:GLU:HB3	2.01	0.41
5:AE:16:HIS:NE2	5:AE:214:ILE:CG1	2.82	0.41
5:AE:170:GLU:HB3	5:AE:174:VAL:CG2	2.37	0.41
5:AE:188:ALA:O	5:AE:189:ASP:CB	2.65	0.41
6:AF:39:ILE:O	6:AF:41:GLY:N	2.54	0.41
7:AG:105:VAL:HG21	7:AG:121:VAL:CG2	2.34	0.41
7:AG:108:LEU:C	7:AG:110:PHE:N	2.73	0.41
7:AG:73:ARG:O	7:AG:76:ARG:N	2.52	0.41
7:AG:78:LEU:HD21	7:AG:96:LEU:CB	2.46	0.41
7:AG:91:SER:O	7:AG:94:LEU:HB2	2.20	0.41
8:AH:92:LYS:CG	8:AH:93:PRO:HD2	2.50	0.41
10:AJ:119:ARG:HE	10:AJ:119:ARG:HB2	1.65	0.41
10:AJ:150:ALA:CB	14:AN:57:THR:HG21	2.50	0.41
10:AJ:20:ASP:HB3	10:AJ:23:VAL:CG2	2.50	0.41
10:AJ:33:ASP:C	10:AJ:35:LYS:H	2.23	0.41
10:AJ:41:ARG:HG2	10:AJ:41:ARG:NH1	2.27	0.41
10:AJ:87:VAL:HB	10:AJ:156:TRP:CE3	2.50	0.41
11:AK:137:VAL:CG1	11:AK:138:TRP:N	2.84	0.41
11:AK:32:LYS:CG	11:AK:33:GLU:N	2.83	0.41
11:AK:65:TYR:C	11:AK:67:PRO:HD3	2.40	0.41
15:AO:41:ARG:O	15:AO:42:THR:HB	2.20	0.41
15:AO:78:GLN:O	15:AO:79:GLU:C	2.58	0.41
1:AA:1229:A:H62	16:AP:105:THR:HG21	1.85	0.41
18:AR:11:VAL:O	18:AR:12:ILE:C	2.58	0.41
18:AR:87:ILE:HG22	18:AR:88:ARG:N	2.35	0.41
19:AS:6:LEU:HB2	19:AS:17:TYR:HD2	1.85	0.41
19:AS:27:LYS:O	19:AS:28:ARG:C	2.59	0.41
21:AU:30:ASP:C	21:AU:32:ARG:N	2.73	0.41
9:AI:7:ASN:CB	21:AU:76:LEU:HD11	2.51	0.41
21:AU:78:LEU:O	21:AU:79:LEU:CB	2.68	0.41
21:AU:82:THR:CG2	21:AU:82:THR:O	2.69	0.41
22:AV:36:ARG:NH1	22:AV:36:ARG:CG	2.82	0.41
22:AV:37:ARG:O	22:AV:38:SER:O	2.38	0.41
23:AW:59:ALA:O	23:AW:62:LEU:N	2.54	0.41
49:B1:3:LYS:HD3	49:B1:6:GLU:HG3	2.01	0.41
50:B2:19:GLN:O	50:B2:20:LYS:C	2.59	0.41
50:B2:28:LEU:HD23	50:B2:33:GLN:HE22	1.86	0.41
50:B2:26:LEU:HB3	50:B2:35:ARG:HH11	1.85	0.41
50:B2:5:LYS:HE2	50:B2:57:GLU:HB2	2.02	0.41
50:B2:6:VAL:HG23	50:B2:35:ARG:CG	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B3:18:CYS:N	51:B3:33:VAL:CG2	2.83	0.41
51:B3:58:ARG:HB3	51:B3:62:ARG:CZ	2.48	0.41
25:BA:2886:G:HO2'	52:B4:32:PRO:CD	2.33	0.41
25:BA:2285:C:C6	53:B5:27:LYS:HE2	2.55	0.41
25:BA:125:G:O2'	54:B6:47:ARG:CZ	2.68	0.41
55:B7:23:VAL:CG2	55:B7:47:LYS:O	2.61	0.41
56:B8:5:ALA:O	56:B8:6:SER:HB2	2.20	0.41
25:BA:1044:G:H22	25:BA:1111:A:H4'	1.81	0.41
25:BA:1166:C:O2'	25:BA:1167:U:H5'	2.21	0.41
25:BA:1197:G:C6	25:BA:1198:U:C6	3.08	0.41
25:BA:1327:C:H5''	25:BA:1328:G:OP2	2.21	0.41
25:BA:1342:A:C2'	25:BA:1345:C:N4	2.63	0.41
25:BA:1362:C:C4	25:BA:1363:C:C5	3.08	0.41
25:BA:1388:G:C1'	25:BA:1524:G:O2'	2.68	0.41
25:BA:1391:U:N3	25:BA:1394:U:C5	2.86	0.41
25:BA:1451:C:H2'	25:BA:1457:A:C6	2.53	0.41
25:BA:1514:U:O2'	25:BA:1515:C:OP2	2.30	0.41
25:BA:1583:A:O3'	25:BA:1585:C:O4'	2.38	0.41
25:BA:1657:C:C6	25:BA:1657:C:O5'	2.58	0.41
25:BA:1658:C:H2'	25:BA:1658:C:O2	2.21	0.41
25:BA:1702:G:C6	25:BA:1703:G:N7	2.89	0.41
25:BA:1754:C:N3	25:BA:1755:A:C5	2.89	0.41
25:BA:1795:C:H2'	25:BA:1796:U:C5'	2.51	0.41
25:BA:1847:A:H2	25:BA:1851:U:O4	2.03	0.41
25:BA:185:U:O2'	25:BA:186:G:O5'	2.39	0.41
25:BA:1878:G:C5	25:BA:1879:C:C5	3.09	0.41
25:BA:1908:C:C2	25:BA:1909:C:C5	3.08	0.41
25:BA:1931:U:C5	25:BA:1932:A:N7	2.88	0.41
25:BA:1955:U:N3	25:BA:2552:U:H1'	2.34	0.41
25:BA:2206:C:H6	25:BA:2206:C:C5'	2.20	0.41
25:BA:2246:G:H1'	25:BA:2426:A:H2	1.83	0.41
25:BA:2320:A:C5'	25:BA:2321:G:C5	3.01	0.41
25:BA:389:G:H8	25:BA:2413:G:H4'	1.80	0.41
25:BA:2422:A:N3	25:BA:2424:C:C4	2.88	0.41
25:BA:2525:G:C2	25:BA:2539:C:N3	2.88	0.41
25:BA:2567:G:C6	25:BA:2568:C:N4	2.88	0.41
25:BA:2569:G:N3	25:BA:2570:G:H8	2.17	0.41
25:BA:2602:A:C4	48:BZ:2:ALA:CA	3.02	0.41
25:BA:270(A):A:H5'	25:BA:270(B):A:P	2.55	0.41
25:BA:2742:C:C2'	25:BA:2742:C:O2	2.68	0.41
25:BA:2824:C:C4	25:BA:2825:C:C2	3.07	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2834:G:N7	25:BA:2835:A:N3	2.69	0.41
25:BA:2850:A:N7	25:BA:2868:A:O2'	2.47	0.41
25:BA:385:C:C2'	25:BA:386:G:OP2	2.68	0.41
25:BA:404:C:H5'	25:BA:406:G:C8	2.56	0.41
25:BA:532:A:N6	25:BA:562:U:H4'	2.36	0.41
25:BA:595:C:H2'	25:BA:596:G:C8	2.51	0.41
25:BA:617:G:C8	25:BA:617:G:C3'	3.03	0.41
25:BA:621:A:C8	25:BA:622:G:C5'	3.03	0.41
25:BA:632:A:C2	25:BA:633:A:C4	3.09	0.41
25:BA:632:A:N1	25:BA:633:A:C2	2.88	0.41
25:BA:632:A:O2'	25:BA:633:A:H5'	2.20	0.41
25:BA:650:C:OP1	55:B7:17:THR:OG1	2.28	0.41
25:BA:668:G:H2'	25:BA:670:A:H62	1.85	0.41
25:BA:702:G:N1	25:BA:731:C:C4	2.88	0.41
25:BA:850:C:H4'	50:B2:18:ASP:O	2.20	0.41
25:BA:857:C:H3'	25:BA:857:C:C6	2.55	0.41
25:BA:880:G:N3	25:BA:881:G:H1'	2.34	0.41
25:BA:892:G:C5	25:BA:893:C:C5	3.08	0.41
25:BA:932:G:OP2	25:BA:1183:G:H5''	2.20	0.41
25:BA:848:G:N2	25:BA:933:A:H1'	2.28	0.41
25:BA:971:C:O2	25:BA:972:G:H1'	2.21	0.41
26:BB:101:A:H2'	26:BB:101:A:N3	2.35	0.41
26:BB:61:G:N2	26:BB:62:C:N3	2.68	0.41
26:BB:69:G:H5'	26:BB:70:C:P	2.60	0.41
28:BD:183:ARG:CZ	28:BD:268:ARG:HD3	2.50	0.41
28:BD:183:ARG:HG3	28:BD:268:ARG:CB	2.45	0.41
28:BD:132:PRO:HD3	28:BD:190:TYR:CZ	2.56	0.41
29:BE:13:ARG:HE	29:BE:21:VAL:HA	1.83	0.41
29:BE:47:VAL:C	29:BE:48:GLN:CD	2.79	0.41
30:BF:137:LYS:HZ3	30:BF:140:LEU:HB2	1.86	0.41
30:BF:139:PHE:CD1	30:BF:139:PHE:C	2.93	0.41
30:BF:201:VAL:HG11	30:BF:205:ARG:HH21	1.76	0.41
31:BG:101:ILE:CD1	31:BG:101:ILE:O	2.61	0.41
31:BG:4:ASP:CA	31:BG:7:LEU:HB2	2.51	0.41
32:BH:105:LEU:HD11	32:BH:148:ILE:CD1	2.40	0.41
32:BH:74:ASN:HB2	32:BH:138:LYS:HE2	2.00	0.41
33:BK:31:LEU:CD1	33:BK:36:ALA:CB	2.99	0.41
33:BK:40:THR:HB	33:BK:43:ASN:ND2	2.36	0.41
35:BM:37:LYS:HZ2	35:BM:43:THR:C	2.24	0.41
35:BM:6:PRO:HA	35:BM:41:ASP:HB2	1.84	0.41
35:BM:72:TYR:HD2	35:BM:73:THR:CA	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BM:74:ARG:CG	35:BM:74:ARG:HH11	2.24	0.41
37:BO:114:ILE:CB	37:BO:130:PHE:HA	2.50	0.41
38:BP:65:PHE:O	38:BP:66:ILE:CD1	2.68	0.41
38:BP:85:LYS:HZ3	48:BZ:10:THR:CG2	2.29	0.41
39:BQ:37:THR:HG22	39:BQ:111:LEU:CD2	2.50	0.41
39:BQ:54:LEU:HD12	39:BQ:54:LEU:HA	1.85	0.41
40:BR:65:VAL:CG2	40:BR:66:ALA:N	2.82	0.41
40:BR:9:ARG:O	40:BR:10:ARG:C	2.59	0.41
42:BT:100:VAL:HB	42:BT:101:ARG:H	1.52	0.41
42:BT:68:ALA:O	42:BT:71:GLN:HB2	2.19	0.41
44:BV:2:GLU:HB3	44:BV:3:ALA:H	1.62	0.41
44:BV:82:LEU:HB3	44:BV:98:LYS:NZ	2.35	0.41
45:BW:8:ILE:HG13	45:BW:9:LEU:CD1	2.50	0.41
46:BX:10:GLY:O	46:BX:11:ASP:CG	2.58	0.41
47:BY:102:LEU:HG	47:BY:125:LEU:HG	2.03	0.41
47:BY:116:VAL:HG21	47:BY:145:GLU:CG	2.49	0.41
47:BY:149:SER:OG	47:BY:170:THR:HG23	2.20	0.41
47:BY:76:LEU:HA	47:BY:83:PRO:CA	2.50	0.41
48:BZ:33:ALA:HA	48:BZ:61:ALA:HB3	2.02	0.41
25:BA:1058:G:H21	34:BL:116:ASN:ND2	2.18	0.41
25:BA:1079:C:O2'	25:BA:1080:C:H5'	2.19	0.41
25:BA:1057:A:N6	25:BA:1086:A:C2	2.87	0.41
1:AA:1002:G:C6	1:AA:1003:G:O6	2.73	0.41
27:BC:71:GLN:CG	27:BC:72:VAL:H	2.32	0.41
1:AA:1054:C:C6	1:AA:1054:C:C3'	3.04	0.41
1:AA:1056:U:H5'	6:AF:163:ALA:HB3	2.01	0.41
1:AA:1116:C:H2'	1:AA:1117:G:H8	1.84	0.41
1:AA:1129:C:H4'	1:AA:1130:A:O5'	2.21	0.41
1:AA:1185:G:H2'	1:AA:1186:G:C5'	2.50	0.41
1:AA:1239:A:C8	1:AA:1241:G:C4	3.08	0.41
1:AA:186(B):C:H5'	23:AW:89:ARG:NH2	2.35	0.41
1:AA:160:A:N1	1:AA:346:G:O6	2.53	0.41
1:AA:10:A:O2'	1:AA:507:C:H4'	2.20	0.41
1:AA:642:A:C4	11:AK:114:THR:O	2.73	0.41
1:AA:659:U:N3	1:AA:660:G:N7	2.69	0.41
1:AA:791:G:C6	1:AA:792:A:N6	2.82	0.41
1:AA:868:C:H2'	1:AA:869:G:O4'	2.20	0.41
1:AA:869:G:O4'	1:AA:872:A:C8	2.73	0.41
1:AA:942:G:N2	1:AA:943:U:N1	2.69	0.41
1:AA:966:G:N2	2:AC:34:C:H5'	2.34	0.41
5:AE:105:PHE:HA	5:AE:105:PHE:HD1	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:148:TYR:CD1	5:AE:148:TYR:N	2.88	0.41
5:AE:16:HIS:CE1	5:AE:213:LEU:HB3	2.55	0.41
6:AF:15:THR:CG2	6:AF:181:ASN:CG	2.88	0.41
7:AG:106:TYR:CE1	7:AG:112:VAL:HA	2.51	0.41
7:AG:58:LEU:CD2	7:AG:62:GLN:HG2	2.50	0.41
7:AG:58:LEU:HD22	7:AG:62:GLN:CG	2.51	0.41
7:AG:62:GLN:HB3	7:AG:66:ARG:CZ	2.50	0.41
7:AG:78:LEU:HD23	7:AG:78:LEU:HA	1.70	0.41
7:AG:57:ARG:HH12	8:AH:107:ARG:HD3	1.84	0.41
8:AH:65:ASN:O	8:AH:66:MET:CG	2.67	0.41
9:AI:15:ASP:O	9:AI:19:LEU:HB2	2.19	0.41
9:AI:37:VAL:HG11	9:AI:40:VAL:HB	2.02	0.41
10:AJ:121:ALA:O	10:AJ:125:MET:HG2	2.20	0.41
10:AJ:86:GLN:CG	10:AJ:148:ASN:ND2	2.83	0.41
11:AK:122:ARG:O	11:AK:123:GLU:C	2.59	0.41
11:AK:24:THR:C	11:AK:25:ASP:OD1	2.58	0.41
12:AL:70:LYS:HD2	12:AL:70:LYS:H	1.85	0.41
14:AN:32:ILE:CG2	14:AN:40:ILE:HD11	2.20	0.41
14:AN:57:THR:C	14:AN:59:TYR:N	2.73	0.41
14:AN:25:TYR:CE1	14:AN:89:ALA:N	2.88	0.41
15:AO:120:TYR:O	15:AO:121:GLY:O	2.38	0.41
16:AP:29:ARG:NH1	16:AP:64:TRP:NE1	2.69	0.41
16:AP:77:ASN:HA	16:AP:80:ARG:CD	2.51	0.41
18:AR:26:GLU:CA	18:AR:26:GLU:OE1	2.68	0.41
18:AR:36:ILE:CD1	18:AR:63:ARG:HD3	2.47	0.41
19:AS:39:TYR:HE1	19:AS:41:PRO:N	2.18	0.41
21:AU:77:GLY:O	21:AU:78:LEU:HG	2.20	0.41
22:AV:46:GLY:CA	22:AV:62:ILE:HG23	2.51	0.41
23:AW:40:ALA:HB2	23:AW:55:ILE:HG21	2.02	0.41
23:AW:57:ARG:NH1	23:AW:57:ARG:HG2	2.34	0.41
23:AW:79:ARG:CG	23:AW:79:ARG:NH1	2.81	0.41
1:AA:1269:A:OP1	24:AX:19:GLY:HA3	2.20	0.41
52:B4:33:CYS:HB3	52:B4:36:CYS:CA	2.49	0.41
25:BA:1000:A:N1	25:BA:1155:A:C4	2.88	0.41
25:BA:1015:G:C6	25:BA:1148:A:C6	3.08	0.41
25:BA:989:G:O5'	25:BA:1157:G:H4'	2.20	0.41
25:BA:1305:C:H2'	25:BA:1306:C:C6	2.56	0.41
25:BA:1364:G:H5''	25:BA:1809:A:C4	2.56	0.41
25:BA:1351:C:N4	25:BA:1381:G:O6	2.53	0.41
25:BA:1494:A:N1	25:BA:1495:A:C1'	2.83	0.41
25:BA:162:U:OP2	25:BA:163:U:C4	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1633:G:C8	25:BA:1635:G:C6	3.08	0.41
25:BA:1728:G:N3	25:BA:1728:G:H2'	2.36	0.41
25:BA:1920:C:C3'	25:BA:1920:C:C6	3.04	0.41
25:BA:2020:A:C2'	25:BA:2021:C:C5'	2.84	0.41
25:BA:528:A:N7	25:BA:2042:A:C6	2.88	0.41
25:BA:2093:G:C5	25:BA:2225:A:N7	2.88	0.41
25:BA:2132:U:C2	25:BA:2134:A:C6	3.09	0.41
25:BA:2149:G:N2	25:BA:2150:U:C2	2.88	0.41
25:BA:2114:A:N6	25:BA:2170:A:H61	2.17	0.41
25:BA:2193:G:C4	25:BA:2194:G:C8	3.08	0.41
25:BA:2228:G:O6	25:BA:2229:C:C2	2.73	0.41
25:BA:2239:G:H5'	25:BA:2240:C:P	2.58	0.41
25:BA:2270:G:H2'	25:BA:2271:G:O4'	2.19	0.41
25:BA:2318:G:OP2	25:BA:2318:G:H8	2.03	0.41
25:BA:2334:G:O2'	40:BR:15:ARG:CB	2.69	0.41
25:BA:2331:G:HO2'	25:BA:2336:A:N6	2.19	0.41
25:BA:2416:C:C2	25:BA:2417:C:C6	3.09	0.41
25:BA:2512:C:OP1	29:BE:122:PHE:HB2	2.19	0.41
25:BA:2439:A:C8	25:BA:2586:C:O3'	2.74	0.41
25:BA:25:U:O2	25:BA:25:U:C2'	2.60	0.41
25:BA:2707:G:H2'	25:BA:2708:G:O5'	2.19	0.41
25:BA:270(P):C:O2'	25:BA:270(Q):C:C5'	2.68	0.41
25:BA:270(X):G:N2	25:BA:270(Y):G:O2'	2.53	0.41
25:BA:271:G:C2'	25:BA:271:G:N3	2.84	0.41
25:BA:2736:G:C2	25:BA:2769:C:C2	3.09	0.41
25:BA:273(B):C:C2	25:BA:273(C):C:C5	3.08	0.41
25:BA:2771:C:C2'	25:BA:2772:C:H6	2.24	0.41
25:BA:2778:A:H4'	25:BA:2779:U:OP2	2.20	0.41
25:BA:2822:G:N7	39:BQ:4:LEU:HD21	2.35	0.41
25:BA:284:U:C2	25:BA:285:C:C5	3.07	0.41
25:BA:312:G:H2'	25:BA:313:C:C5	2.55	0.41
25:BA:319:C:C2	25:BA:333:G:N2	2.88	0.41
25:BA:349:G:C5	25:BA:350:U:O4	2.73	0.41
25:BA:38:A:H4'	30:BF:94:PRO:HG3	2.02	0.41
25:BA:403:U:H5''	25:BA:404:C:OP1	2.20	0.41
25:BA:448:U:O2	25:BA:448:U:C2'	2.69	0.41
25:BA:36:G:O2'	25:BA:451:C:C5'	2.68	0.41
25:BA:482:A:N6	25:BA:506:G:O6	2.52	0.41
25:BA:575:A:C2'	25:BA:576:U:C5'	2.82	0.41
25:BA:575:A:H2'	25:BA:576:U:C5'	2.47	0.41
25:BA:584:C:H2'	25:BA:585:G:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:600:G:H5'	30:BF:32:LEU:CD1	2.42	0.41
25:BA:602:G:N2	25:BA:656:G:C5	2.88	0.41
25:BA:613:U:P	25:BA:615:G:H8	2.43	0.41
25:BA:64:A:H4'	45:BW:73:ARG:N	2.32	0.41
25:BA:684:G:O2'	25:BA:687:C:N4	2.43	0.41
25:BA:67:U:O2'	25:BA:68:G:O4'	2.37	0.41
25:BA:698:C:O2'	25:BA:699:A:OP2	2.32	0.41
25:BA:756:C:C4	25:BA:757:U:C4	3.08	0.41
25:BA:796:C:H2'	25:BA:797:C:H6	1.85	0.41
25:BA:815:C:H2'	25:BA:816:C:H6	1.84	0.41
25:BA:823:G:N2	25:BA:835:A:H1'	2.36	0.41
25:BA:866:A:C5	25:BA:914:C:O2	2.74	0.41
25:BA:915:C:H2'	25:BA:916:G:O4'	2.20	0.41
25:BA:952:G:O6	25:BA:966:G:C6	2.73	0.41
26:BB:16:G:C4	26:BB:17:C:C6	3.09	0.41
26:BB:16:G:N3	26:BB:17:C:C6	2.88	0.41
26:BB:32:C:C5'	26:BB:33:G:OP2	2.69	0.41
26:BB:97:G:C4	26:BB:98:G:C8	3.08	0.41
27:BC:100:ILE:HG22	27:BC:104:LEU:HD21	2.02	0.41
28:BD:106:ILE:HD12	28:BD:108:PRO:HG3	2.02	0.41
28:BD:148:GLU:HA	28:BD:149:PRO:HD3	1.92	0.41
28:BD:34:VAL:O	28:BD:36:PRO:N	2.54	0.41
28:BD:6:PHE:O	28:BD:27:THR:CA	2.53	0.41
29:BE:13:ARG:HH21	29:BE:15:PHE:HB2	1.85	0.41
29:BE:154:LYS:O	29:BE:155:LYS:C	2.59	0.41
29:BE:178:GLU:HB3	29:BE:179:GLU:OE2	2.20	0.41
29:BE:8:LYS:HD2	41:BS:3:ARG:CB	2.50	0.41
30:BF:146:ALA:HB3	30:BF:148:LEU:CD2	2.51	0.41
30:BF:53:THR:C	30:BF:56:GLU:OE1	2.59	0.41
31:BG:106:LEU:O	31:BG:110:ALA:HB3	2.20	0.41
31:BG:114:ILE:HG12	31:BG:140:ILE:HD11	2.01	0.41
25:BA:2303:G:O2'	31:BG:132:ASN:CB	2.68	0.41
31:BG:37:VAL:HG22	31:BG:159:VAL:HG12	2.02	0.41
25:BA:2305:A:C2	31:BG:40:ASN:C	2.93	0.41
31:BG:53:LEU:CD1	31:BG:53:LEU:N	2.83	0.41
32:BH:103:LEU:H	32:BH:115:VAL:H	1.68	0.41
32:BH:115:VAL:HG13	32:BH:117:PRO:HD3	2.02	0.41
32:BH:117:PRO:C	32:BH:121:ILE:HG21	2.39	0.41
32:BH:4:ILE:CD1	32:BH:4:ILE:N	2.72	0.41
35:BM:42:TRP:CZ3	42:BT:67:ALA:CB	2.79	0.41
36:BN:23:ARG:H	36:BN:23:ARG:HG3	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:36:LYS:NZ	37:BO:42:SER:OG	2.50	0.41
38:BP:49:ALA:HB3	38:BP:124:LYS:NZ	2.35	0.41
38:BP:16:ARG:NE	38:BP:73:PRO:HG3	2.36	0.41
38:BP:85:LYS:HD2	48:BZ:10:THR:OG1	2.21	0.41
39:BQ:37:THR:CG2	39:BQ:104:ARG:HH21	2.34	0.41
39:BQ:65:LEU:CD2	39:BQ:65:LEU:C	2.86	0.41
40:BR:4:LEU:O	40:BR:8:GLU:CG	2.66	0.41
41:BS:99:LEU:O	41:BS:102:ILE:HG23	2.20	0.41
41:BS:15:VAL:HG22	41:BS:81:PRO:CB	2.51	0.41
41:BS:64:ARG:NE	41:BS:77:PRO:CB	2.84	0.41
41:BS:6:LEU:O	41:BS:7:ILE:C	2.58	0.41
41:BS:92:GLY:C	41:BS:93:ARG:CG	2.89	0.41
41:BS:95:ARG:CB	41:BS:96:ARG:HD2	2.50	0.41
42:BT:57:PHE:O	42:BT:60:LEU:N	2.53	0.41
43:BU:64:HIS:HB3	43:BU:96:ILE:CA	2.34	0.41
43:BU:74:LYS:O	43:BU:75:PHE:CD2	2.73	0.41
44:BV:25:ARG:NE	44:BV:75:TYR:CE2	2.88	0.41
46:BX:110:GLU:O	46:BX:110:GLU:HG2	2.20	0.41
46:BX:13:VAL:CA	46:BX:73:ARG:CZ	2.98	0.41
48:BZ:25:ARG:CA	48:BZ:29:GLN:OE1	2.69	0.41
48:BZ:59:LEU:N	48:BZ:59:LEU:HD12	2.35	0.41
25:BA:1087:G:C2	25:BA:1103:A:N3	2.89	0.41
47:BY:180:VAL:O	47:BY:180:VAL:HG12	2.19	0.41
25:BA:188:G:C2'	25:BA:189:G:C5'	2.98	0.41
32:BH:27:LYS:HZ2	32:BH:32:GLU:CB	2.29	0.41
26:BB:89:G:C8	26:BB:89(A):A:N7	2.88	0.41
1:AA:1043:C:H2'	1:AA:1044:A:C5'	2.50	0.41
51:B3:70:GLY:O	51:B3:71:ARG:HB2	2.20	0.41
4:A1:22:A:H2'	4:A1:23:A:C5'	2.50	0.41
1:AA:105:G:C4	1:AA:106:C:C4	3.08	0.41
1:AA:1125:U:OP2	1:AA:1125:U:H4'	2.20	0.41
1:AA:1108:G:H5''	1:AA:1191:A:H1'	2.03	0.41
1:AA:1251:A:C2'	1:AA:1252:A:C8	2.84	0.41
1:AA:1281:U:H6	1:AA:1281:U:H3'	1.85	0.41
1:AA:1350:A:O2'	1:AA:1351:U:H5'	2.21	0.41
1:AA:1372:U:C4	1:AA:1373:G:C5	3.09	0.41
1:AA:1465:C:C4	1:AA:1466:C:C4	3.07	0.41
1:AA:1528:U:C2	1:AA:1530:G:H8	2.39	0.41
1:AA:1531:A:H8	1:AA:1531:A:O5'	2.03	0.41
1:AA:186(E):C:C2	1:AA:191(C):G:N2	2.88	0.41
1:AA:382:A:O2'	1:AA:383:A:O5'	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:388:G:C2'	1:AA:389:A:OP2	2.69	0.41
1:AA:527:G:N2	1:AA:528:C:C2	2.88	0.41
1:AA:552:U:O2'	1:AA:553:A:H5'	2.20	0.41
1:AA:599:C:O2'	1:AA:600:C:H5'	2.20	0.41
1:AA:625:G:H4'	19:AS:16:HIS:CB	2.51	0.41
1:AA:632:A:H2'	1:AA:633:G:H5'	2.02	0.41
1:AA:641:U:O3'	1:AA:642:A:H8	2.03	0.41
1:AA:643:C:HO2'	11:AK:132:GLU:CD	2.20	0.41
1:AA:685:G:H8	1:AA:685:G:O5'	2.03	0.41
1:AA:692:U:H1'	1:AA:694:A:N7	2.35	0.41
1:AA:698:G:N2	1:AA:699:C:C2	2.89	0.41
1:AA:755:G:N3	1:AA:755:G:C2'	2.84	0.41
1:AA:768:A:C8	1:AA:768:A:H3'	2.56	0.41
1:AA:793:U:C3'	1:AA:794:A:H5''	2.49	0.41
1:AA:821:G:N2	1:AA:822:C:C2	2.89	0.41
1:AA:891:U:C6	1:AA:892:A:N7	2.88	0.41
1:AA:8:A:H1'	8:AH:102:ALA:C	2.37	0.41
1:AA:960:U:O2	1:AA:960:U:C2'	2.67	0.41
1:AA:966:G:C2'	1:AA:967:C:O5'	2.68	0.41
1:AA:994:A:N3	17:AQ:5:ALA:HA	2.36	0.41
2:AC:6:G:C2	2:AC:7:G:C5	3.09	0.41
3:AD:1:G:O2'	3:AD:2:C:C5'	2.69	0.41
3:AD:9:A:H62	3:AD:23:A:N6	2.14	0.41
5:AE:155:LEU:C	5:AE:157:ARG:H	2.23	0.41
5:AE:60:ASP:C	5:AE:64:ARG:CZ	2.89	0.41
5:AE:83:MET:CB	5:AE:234:PRO:HB3	2.50	0.41
6:AF:136:GLN:HA	6:AF:139:GLN:HG3	2.02	0.41
6:AF:138:VAL:O	6:AF:170:GLN:NE2	2.53	0.41
6:AF:6:HIS:ND1	6:AF:7:PRO:CD	2.80	0.41
6:AF:83:ARG:O	6:AF:87:LEU:CG	2.62	0.41
6:AF:83:ARG:C	6:AF:87:LEU:HG	2.40	0.41
7:AG:133:VAL:HG21	7:AG:138:TYR:CE1	2.55	0.41
1:AA:5:U:C5	7:AG:86:LYS:HD3	2.55	0.41
8:AH:98:THR:OG1	8:AH:117:ASP:CB	2.68	0.41
9:AI:95:GLU:N	9:AI:96:PRO:CD	2.83	0.41
11:AK:28:ALA:O	11:AK:29:SER:CB	2.68	0.41
12:AL:9:ARG:HG2	12:AL:15:ALA:H	1.85	0.41
12:AL:27:THR:CB	12:AL:62:TYR:CD1	2.95	0.41
13:AM:61:GLU:HG3	13:AM:62:HIS:H	1.85	0.41
13:AM:90:LEU:N	13:AM:91:PRO:CD	2.81	0.41
1:AA:36:C:H5''	15:AO:123:LYS:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:91:LYS:O	15:AO:92:ASP:HB3	2.19	0.41
16:AP:87:TYR:C	16:AP:87:TYR:CD2	2.91	0.41
13:AM:51:ARG:HG2	17:AQ:45:ARG:HH21	1.85	0.41
18:AR:36:ILE:HB	18:AR:59:MET:SD	2.60	0.41
18:AR:39:LEU:O	18:AR:42:HIS:HB3	2.20	0.41
18:AR:43:LEU:CD1	18:AR:53:HIS:HD2	2.33	0.41
19:AS:26:ARG:CD	19:AS:31:LYS:H	2.29	0.41
1:AA:761:G:C4'	20:AT:103:GLY:H	2.33	0.41
21:AU:47:THR:N	21:AU:49:LYS:NZ	2.68	0.41
23:AW:92:LEU:C	23:AW:93:GLU:HG3	2.38	0.41
49:B1:3:LYS:O	49:B1:6:GLU:CG	2.64	0.41
53:B5:32:ASN:ND2	53:B5:34:LEU:HG	2.36	0.41
55:B7:26:LYS:HD2	55:B7:44:LYS:CA	2.50	0.41
25:BA:592:G:HO2'	55:B7:2:PRO:HA	1.82	0.41
25:BA:1033:U:C5'	56:B8:16:VAL:HG11	2.50	0.41
25:BA:1007:C:C2	25:BA:1008:C:N4	2.86	0.41
25:BA:1044:G:O2'	25:BA:1111:A:C2	2.73	0.41
25:BA:1115:G:N2	25:BA:1116:C:O2	2.54	0.41
25:BA:1128:A:O2'	25:BA:1129:A:OP2	2.38	0.41
25:BA:1201:C:N3	25:BA:1245:G:C2	2.89	0.41
25:BA:124:G:C8	25:BA:124:G:C3'	3.04	0.41
25:BA:1297:C:C2'	25:BA:1298:C:H5'	2.50	0.41
25:BA:1426:G:H5''	25:BA:1427:A:H3'	2.00	0.41
25:BA:1447:G:C6	25:BA:1448:G:N7	2.89	0.41
25:BA:1507:A:OP1	25:BA:1508:A:OP2	2.39	0.41
25:BA:1544:C:H2'	25:BA:1545:A:O4'	2.21	0.41
25:BA:1585:C:H4'	25:BA:1586:A:OP1	2.20	0.41
25:BA:1632:A:H2'	25:BA:1633:G:N3	2.36	0.41
25:BA:1759:A:C2'	25:BA:1760:A:O5'	2.69	0.41
25:BA:1773:A:H8	25:BA:1773:A:H3'	1.85	0.41
25:BA:1773:A:N6	25:BA:1829:A:H1'	2.36	0.41
25:BA:1809:A:C2'	25:BA:1810:A:OP1	2.68	0.41
25:BA:1858:G:H3'	25:BA:1858:G:C8	2.56	0.41
25:BA:18:C:C5'	42:BT:26:GLY:H	2.34	0.41
25:BA:1915:U:C3'	25:BA:1915:U:OP2	2.69	0.41
25:BA:1913:A:C2'	25:BA:1916:A:C2	2.94	0.41
25:BA:1935:G:C4	25:BA:1962:C:C5	3.09	0.41
25:BA:1935:G:N2	25:BA:1962:C:O2'	2.53	0.41
25:BA:1988:C:H2'	25:BA:1989:G:H8	1.86	0.41
25:BA:2013:A:N7	25:BA:2014:A:C5	2.89	0.41
25:BA:2115:G:C5'	25:BA:2116:G:OP2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2115:G:N2	25:BA:2119:A:OP2	2.54	0.41
25:BA:2121:G:N3	25:BA:2121:G:H2'	2.35	0.41
25:BA:2182:G:C2	25:BA:2183:C:C2	3.09	0.41
25:BA:2225:A:N1	33:BK:29:TYR:OH	2.45	0.41
25:BA:2286:A:H3'	25:BA:2286:A:H8	1.85	0.41
25:BA:2291:U:H4'	25:BA:2374:C:O2	2.20	0.41
25:BA:2373:G:O6	25:BA:2381:C:N4	2.53	0.41
25:BA:241:A:H2'	25:BA:241:A:N3	2.34	0.41
25:BA:2472:G:H3'	25:BA:2475:C:N4	2.34	0.41
25:BA:2447:G:C5	25:BA:2500:U:H3'	2.56	0.41
2:AC:76:A:C2	25:BA:2506:U:N3	2.89	0.41
25:BA:2553:G:C5	25:BA:2583:G:O2'	2.73	0.41
25:BA:2648:C:O5'	25:BA:2648:C:H6	2.03	0.41
25:BA:2791:C:C2'	25:BA:2792:G:C8	2.76	0.41
25:BA:2804:C:C2	25:BA:2805:G:N1	2.88	0.41
25:BA:2821:A:H3'	25:BA:2821:A:OP2	2.21	0.41
25:BA:2811:G:C6	25:BA:2891:G:C2	3.08	0.41
25:BA:2810:A:N6	25:BA:2891:G:O2'	2.47	0.41
25:BA:2631:G:H5''	25:BA:2892:A:OP1	2.20	0.41
25:BA:269:U:C4	25:BA:424:G:O6	2.74	0.41
25:BA:452:G:C8	25:BA:452:G:OP1	2.74	0.41
25:BA:462:C:H2'	25:BA:463:G:O5'	2.21	0.41
25:BA:464:U:O5'	25:BA:464:U:C6	2.57	0.41
25:BA:476:G:C5	25:BA:478:A:OP2	2.74	0.41
25:BA:489:G:C2	25:BA:491:G:C8	3.08	0.41
25:BA:533:G:C2	25:BA:534:U:C2	3.08	0.41
25:BA:565:C:C1'	25:BA:577:G:N2	2.80	0.41
25:BA:563:G:N2	25:BA:578:A:N1	2.65	0.41
25:BA:609:A:N6	25:BA:609(A):G:O6	2.51	0.41
25:BA:610:C:C2'	25:BA:611:C:H6	2.13	0.41
25:BA:617:G:C5	25:BA:618:G:C6	3.07	0.41
25:BA:621:A:H8	25:BA:622:G:C5'	2.33	0.41
25:BA:627:A:OP2	25:BA:637:A:N6	2.53	0.41
25:BA:638:G:C2'	25:BA:639:U:O5'	2.63	0.41
25:BA:677:A:C2	25:BA:678:C:C6	3.08	0.41
25:BA:701:G:N1	25:BA:732:C:N3	2.69	0.41
25:BA:706:A:O2'	25:BA:707:G:H5'	2.20	0.41
25:BA:733:G:H8	25:BA:733:G:H5''	1.84	0.41
25:BA:735:A:N6	25:BA:736:C:C2	2.89	0.41
25:BA:762:U:O2	25:BA:763:G:C6	2.73	0.41
25:BA:764:A:H5'	25:BA:765:G:OP2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:791:C:N4	25:BA:794:G:H1'	2.29	0.41
25:BA:849:A:C6	25:BA:931:G:C6	3.08	0.41
25:BA:876:C:C4	25:BA:877:U:C4	3.09	0.41
25:BA:990:A:C6	25:BA:1186:G:H1'	2.55	0.41
25:BA:997:G:N3	25:BA:998:C:C6	2.87	0.41
26:BB:9:G:C4	26:BB:112:G:C6	3.09	0.41
26:BB:18:G:O2'	26:BB:19:G:C5'	2.67	0.41
26:BB:75:G:C5	26:BB:76:G:C2	3.08	0.41
27:BC:18:LYS:O	27:BC:20:TYR:CE2	2.73	0.41
28:BD:174:ILE:HG13	28:BD:184:LYS:HG2	2.03	0.41
25:BA:763:G:C5'	28:BD:211:ARG:HH12	2.22	0.41
28:BD:5:LYS:CG	28:BD:29:PRO:HB3	2.49	0.41
28:BD:5:LYS:CB	28:BD:29:PRO:HD3	2.51	0.41
29:BE:98:PRO:CB	29:BE:174:ASP:HA	2.50	0.41
29:BE:69:LYS:O	29:BE:69:LYS:HG2	2.21	0.41
30:BF:135:LYS:HE2	30:BF:137:LYS:N	2.20	0.41
30:BF:163:VAL:O	30:BF:164:ARG:C	2.59	0.41
30:BF:184:TYR:HB2	30:BF:185:ASP:H	1.69	0.41
30:BF:157:VAL:O	30:BF:194:MET:HB2	2.20	0.41
30:BF:5:ALA:CB	30:BF:24:LEU:HD11	2.50	0.41
30:BF:44:ARG:HG3	30:BF:44:ARG:NH2	2.33	0.41
16:AP:3:ARG:NE	31:BG:113:ARG:NE	2.66	0.41
31:BG:142:PRO:C	31:BG:143:GLU:HG2	2.40	0.41
31:BG:27:ASN:HB3	31:BG:29:TRP:CE2	2.55	0.41
31:BG:44:GLY:C	31:BG:47:LYS:H	2.23	0.41
31:BG:57:ALA:O	31:BG:58:GLN:C	2.58	0.41
35:BM:17:ASP:C	35:BM:21:LYS:HZ2	2.24	0.41
35:BM:95:PRO:HD2	35:BM:96:GLU:OE2	2.20	0.41
36:BN:111:PHE:HD1	36:BN:114:ILE:HG22	1.85	0.41
37:BO:68:GLN:O	37:BO:69:GLY:O	2.39	0.41
37:BO:81:GLN:CB	37:BO:86:LYS:HG3	2.50	0.41
38:BP:62:GLY:O	38:BP:107:ALA:HA	2.21	0.41
38:BP:71:ASP:CB	38:BP:95:ALA:HA	2.49	0.41
39:BQ:17:ARG:HG3	39:BQ:18:LEU:N	2.34	0.41
39:BQ:67:LEU:O	39:BQ:68:ARG:C	2.59	0.41
41:BS:33:LYS:CB	41:BS:45:PHE:CD1	3.03	0.41
36:BN:77:ILE:CG1	41:BS:75:ILE:CD1	2.98	0.41
42:BT:97:ASP:C	42:BT:101:ARG:HG2	2.39	0.41
42:BT:69:CYS:CB	42:BT:79:PHE:CD2	3.02	0.41
43:BU:64:HIS:C	43:BU:97:LYS:NZ	2.73	0.41
44:BV:23:LEU:HD12	52:B4:26:THR:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BV:65:LEU:HB2	44:BV:68:ARG:CG	2.51	0.41
44:BV:59:VAL:HG22	44:BV:66:GLU:HA	2.01	0.41
45:BW:35:THR:HB	45:BW:38:GLU:H	1.85	0.41
47:BY:14:LYS:CB	47:BY:15:PRO:CD	2.98	0.41
48:BZ:25:ARG:HD3	48:BZ:25:ARG:HA	1.61	0.41
33:BK:75:LEU:HA	33:BK:75:LEU:HD22	1.73	0.41
33:BK:81:VAL:HG23	33:BK:145:VAL:N	2.35	0.41
25:BA:1059:G:C3'	25:BA:1059:G:C8	3.03	0.41
25:BA:1064:C:C3'	25:BA:1065:U:C6	2.97	0.41
25:BA:1085:A:H3'	25:BA:1085:A:OP2	2.20	0.41
25:BA:1100:C:C2	25:BA:1101:U:C5	3.09	0.41
34:BL:10:LEU:CD1	34:BL:27:LEU:HD21	2.51	0.41
34:BL:18:THR:N	34:BL:19:PRO:CD	2.77	0.41
46:BX:86:ARG:O	46:BX:91:GLU:CB	2.69	0.41
1:AA:1026:G:O6	1:AA:1036:G:N1	2.53	0.41
1:AA:87:A:N7	1:AA:88:C:C2	2.89	0.41
8:AH:87:SER:HB3	8:AH:131:ILE:HD13	2.01	0.41
25:BA:771:G:N3	25:BA:772:C:C6	2.88	0.41
25:BA:219:G:C8	25:BA:219:G:O5'	2.65	0.41
4:A1:5:A:C2'	4:A1:6:G:O4'	2.69	0.41
28:BD:35:LYS:HG2	28:BD:35:LYS:H	1.69	0.41
1:AA:1111:A:H2'	1:AA:1112:C:C5	2.52	0.41
1:AA:128:G:C6	1:AA:129:U:C4	3.08	0.41
1:AA:1315:U:C5	1:AA:1316:G:O6	2.74	0.41
1:AA:1234:C:C1'	1:AA:1364:U:O2	2.65	0.41
1:AA:1498:U:O2'	1:AA:1499:A:C5'	2.69	0.41
1:AA:1516:G:N2	1:AA:1518:A:OP2	2.53	0.41
1:AA:186(C):G:N2	1:AA:186(D):C:C2	2.89	0.41
1:AA:221:C:H2'	1:AA:222:U:H6	1.86	0.41
1:AA:258:G:N3	1:AA:259:G:N7	2.68	0.41
1:AA:266:G:H2'	1:AA:267:C:OP2	2.21	0.41
1:AA:243:A:N6	1:AA:281:G:H2'	2.34	0.41
1:AA:282:A:H2'	1:AA:282:A:N3	2.34	0.41
1:AA:302:G:H5''	1:AA:302:G:H8	1.83	0.41
1:AA:483:C:N4	1:AA:484:G:N1	2.67	0.41
1:AA:539:A:H2'	1:AA:540:G:C8	2.56	0.41
1:AA:565:U:O5'	1:AA:566:G:H3'	2.20	0.41
1:AA:629:G:N3	1:AA:630:G:C8	2.88	0.41
1:AA:606:G:N2	1:AA:631:G:N3	2.69	0.41
1:AA:683:G:N2	14:AN:38:ASN:HA	2.35	0.41
1:AA:775:G:N7	28:BD:276:LYS:HG2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:799:G:C6	1:AA:800:G:C2	3.08	0.41
1:AA:800:G:C8	1:AA:800:G:H3'	2.56	0.41
1:AA:853:G:O2'	1:AA:854:G:O4'	2.36	0.41
1:AA:867:G:H2'	1:AA:868:C:C6	2.55	0.41
1:AA:893:C:OP2	1:AA:893:C:H6	2.03	0.41
2:AC:21:A:N6	2:AC:48:C:C5	2.88	0.41
2:AC:19:G:C4	2:AC:57:A:H2	2.39	0.41
3:AD:47:U:C2'	3:AD:48:C:H5"	2.41	0.41
5:AE:176:GLU:O	5:AE:180:LEU:CD1	2.68	0.41
5:AE:22:LYS:HA	5:AE:22:LYS:HD3	1.76	0.41
6:AF:131:ARG:NH1	8:AH:51:VAL:CG2	2.81	0.41
6:AF:134:ILE:CD1	6:AF:134:ILE:N	2.83	0.41
6:AF:179:ARG:HB3	6:AF:206:GLU:OE1	2.21	0.41
6:AF:114:PRO:HD3	6:AF:183:ASP:OD2	2.19	0.41
6:AF:190:ARG:CA	6:AF:190:ARG:NE	2.84	0.41
7:AG:128:VAL:O	7:AG:130:GLY:N	2.53	0.41
7:AG:59:ARG:NE	7:AG:59:ARG:HA	2.22	0.41
7:AG:60:GLU:O	7:AG:63:LYS:HD2	2.20	0.41
8:AH:80:ILE:O	8:AH:90:VAL:HA	2.21	0.41
9:AI:70:ASP:O	9:AI:72:VAL:N	2.54	0.41
10:AJ:40:ALA:O	10:AJ:44:TYR:CD1	2.74	0.41
10:AJ:80:VAL:CG1	10:AJ:81:GLY:N	2.73	0.41
1:AA:1249:C:O2'	12:AL:67:GLY:O	2.35	0.41
13:AM:60:ARG:O	13:AM:61:GLU:HB2	2.21	0.41
14:AN:15:ALA:HB1	14:AN:78:GLN:HE22	1.84	0.41
15:AO:60:LEU:CD2	15:AO:64:TYR:CB	2.98	0.41
16:AP:110:ARG:CB	16:AP:110:ARG:HH11	2.32	0.41
16:AP:14:ARG:N	16:AP:44:ARG:CZ	2.75	0.41
18:AR:69:TYR:HH	18:AR:73:GLU:HG3	1.83	0.41
20:AT:97:SER:HB2	20:AT:104:LYS:N	2.36	0.41
21:AU:36:ASN:O	21:AU:40:LEU:CG	2.53	0.41
21:AU:40:LEU:C	21:AU:42:ARG:N	2.73	0.41
21:AU:71:LYS:O	21:AU:72:ARG:C	2.58	0.41
21:AU:78:LEU:O	21:AU:79:LEU:CG	2.68	0.41
14:AN:84:VAL:CG2	21:AU:88:LYS:NZ	2.81	0.41
22:AV:62:ILE:HD11	22:AV:67:VAL:CB	2.50	0.41
23:AW:12:ALA:C	23:AW:14:LYS:H	2.23	0.41
24:AX:6:ARG:HH11	24:AX:15:ARG:NH2	2.18	0.41
49:B1:26:GLU:HA	49:B1:29:GLU:HG3	2.03	0.41
25:BA:1158:C:C1'	50:B2:32:GLN:HE21	2.33	0.41
53:B5:22:ALA:O	53:B5:23:THR:CG2	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B6:39:ARG:HB3	54:B6:40:TRP:H	1.44	0.41
56:B8:9:ARG:O	56:B8:10:ILE:CG1	2.66	0.41
25:BA:1128:A:H2	25:BA:1129:A:C5	2.37	0.41
25:BA:1141:U:C2'	25:BA:1142:U:OP2	2.69	0.41
25:BA:1180:C:N3	25:BA:1181:C:C4	2.89	0.41
25:BA:1247:A:HO2'	25:BA:1248:G:P	2.43	0.41
25:BA:1329:U:H5'	25:BA:1330:C:H5	1.82	0.41
25:BA:1353:A:O2'	25:BA:1354:A:H5'	2.20	0.41
25:BA:1410:G:C6	25:BA:1411:C:C4	3.08	0.41
25:BA:1539:G:C5	25:BA:1540:G:N7	2.88	0.41
25:BA:1448:G:C4'	25:BA:1543:A:N6	2.74	0.41
25:BA:1650:G:C2	25:BA:1651:G:H1'	2.53	0.41
25:BA:1681:G:N3	25:BA:1762:A:C8	2.88	0.41
25:BA:1743:G:OP1	25:BA:1743:G:C4'	2.67	0.41
25:BA:1759:A:C8	25:BA:2696:U:O2	2.73	0.41
25:BA:1764:G:C6	25:BA:1989:G:N3	2.89	0.41
25:BA:1783:A:O2'	25:BA:2607:G:C2'	2.68	0.41
25:BA:1791:A:H2	25:BA:1829:A:C1'	2.33	0.41
25:BA:1804:C:O2	25:BA:1804:C:H2'	2.20	0.41
25:BA:1859:A:H61	25:BA:1883:G:H2'	1.85	0.41
25:BA:1869:G:N2	25:BA:1878:G:N7	2.62	0.41
25:BA:1928:A:H2'	25:BA:1929:G:H5'	2.03	0.41
25:BA:2038:G:O5'	25:BA:2038:G:C8	2.61	0.41
25:BA:2092:U:H2'	25:BA:2092:U:O2	2.21	0.41
25:BA:224:G:N1	25:BA:225:A:C5	2.89	0.41
25:BA:2305:A:N6	31:BG:42:GLY:HA2	2.36	0.41
25:BA:2343:C:O2'	25:BA:2373:G:H4'	2.21	0.41
25:BA:2367:G:C2	25:BA:2368:C:C5	3.09	0.41
25:BA:2463:C:O2'	25:BA:2464:C:H5'	2.20	0.41
25:BA:2466:C:C4	25:BA:2467:C:C5	3.09	0.41
25:BA:2519:U:N1	25:BA:2542:A:C6	2.88	0.41
25:BA:2550:G:H2'	25:BA:2551:C:O5'	2.20	0.41
25:BA:2554:U:H5	25:BA:2556:C:N3	2.18	0.41
25:BA:2056:G:N7	25:BA:2577:A:C5	2.88	0.41
25:BA:2587:A:HO2'	25:BA:2588:G:H5'	1.83	0.41
25:BA:2663:G:N7	25:BA:2664:G:N7	2.69	0.41
25:BA:2749:A:C8	25:BA:2750:A:C8	3.09	0.41
25:BA:274:G:O5'	25:BA:274:G:N3	2.53	0.41
25:BA:2761:G:C2'	25:BA:2762:G:C5'	2.98	0.41
25:BA:2834:G:N7	25:BA:2835:A:C4	2.89	0.41
25:BA:2841:C:O2'	25:BA:2842:G:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2899:G:O2'	25:BA:2900:A:O5'	2.38	0.41
25:BA:474:G:HO2'	25:BA:475:U:P	2.41	0.41
25:BA:487:C:N4	25:BA:488:G:C5	2.88	0.41
25:BA:528:A:N3	25:BA:2043:C:H4'	2.35	0.41
25:BA:585:G:C2'	25:BA:586:A:H8	2.32	0.41
25:BA:617:G:C8	25:BA:617:G:H3'	2.55	0.41
25:BA:661:C:H2'	25:BA:662:G:O4'	2.19	0.41
25:BA:714:U:C6	25:BA:716:A:OP2	2.72	0.41
25:BA:727:A:N1	25:BA:729:G:C6	2.89	0.41
25:BA:747:U:O2	25:BA:2014:A:H1'	2.21	0.41
25:BA:879:G:C2	25:BA:880:G:C8	3.08	0.41
25:BA:903:C:H2'	25:BA:904:C:H6	1.85	0.41
26:BB:49:C:C2	26:BB:50:G:C8	3.09	0.41
27:BC:22:ILE:CG2	27:BC:189:ILE:HD12	2.49	0.41
27:BC:29:VAL:HG22	27:BC:216:THR:CG2	2.51	0.41
27:BC:21:THR:N	27:BC:24:GLU:OE1	2.54	0.41
28:BD:10:THR:O	28:BD:11:PRO:C	2.52	0.41
28:BD:121:PRO:C	28:BD:135:PHE:HE2	2.23	0.41
28:BD:12:SER:C	28:BD:13:ARG:O	2.57	0.41
28:BD:136:ILE:HD13	28:BD:173:VAL:HG11	2.02	0.41
28:BD:21:PHE:O	28:BD:205:VAL:HG22	2.19	0.41
28:BD:181:GLU:HA	28:BD:270:ILE:HG21	2.03	0.41
28:BD:275:LYS:HE3	28:BD:275:LYS:HB2	1.73	0.41
29:BE:172:VAL:O	29:BE:182:LEU:HD21	2.20	0.41
29:BE:33:VAL:CG2	29:BE:34:VAL:N	2.84	0.41
30:BF:105:VAL:O	30:BF:106:ARG:C	2.58	0.41
25:BA:322:A:OP1	30:BF:168:ARG:CG	2.69	0.41
30:BF:41:LEU:HB3	30:BF:184:TYR:HE1	1.85	0.41
30:BF:209:GLU:O	30:BF:210:ALA:C	2.59	0.41
31:BG:32:PRO:HG2	31:BG:172:LEU:HB2	2.02	0.41
32:BH:154:PRO:O	32:BH:155:SER:OG	2.38	0.41
32:BH:156:ALA:HB1	32:BH:172:LYS:CE	2.51	0.41
32:BH:54:ARG:HH12	32:BH:62:LYS:HB3	1.86	0.41
32:BH:94:TYR:HB2	32:BH:107:VAL:HB	2.03	0.41
32:BH:96:ALA:H	32:BH:128:PRO:HG3	1.86	0.41
33:BK:7:GLU:CB	33:BK:35:LEU:HD12	2.49	0.41
35:BM:66:LYS:HG3	35:BM:88:GLU:OE1	2.20	0.41
36:BN:11:ALA:HB2	36:BN:17:ARG:CZ	2.50	0.41
36:BN:9:GLU:OE1	36:BN:17:ARG:O	2.38	0.41
36:BN:14:THR:HG22	36:BN:85:VAL:HG23	2.03	0.41
37:BO:91:PHE:N	37:BO:125:VAL:CG1	2.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BO:52:GLU:OE1	55:B7:52:LYS:CD	2.69	0.41
37:BO:80:TYR:CE1	37:BO:85:LEU:HD22	2.53	0.41
39:BQ:100:LEU:HD23	39:BQ:112:ALA:C	2.40	0.41
40:BR:55:ALA:O	40:BR:56:LEU:O	2.38	0.41
40:BR:26:LEU:O	40:BR:88:ASP:HB2	2.21	0.41
41:BS:54:ARG:NE	41:BS:100:TYR:CB	2.83	0.41
41:BS:16:ARG:CG	41:BS:16:ARG:NH1	2.82	0.41
25:BA:531:C:C4	42:BT:38:THR:HG22	2.52	0.41
42:BT:47:TYR:CE1	43:BU:77:ALA:CB	2.97	0.41
42:BT:70:ARG:HD3	42:BT:75:ASN:CG	2.40	0.41
42:BT:89:GLU:C	42:BT:90:VAL:HG23	2.40	0.41
43:BU:67:GLY:O	43:BU:68:LYS:HG2	2.20	0.41
44:BV:29:LEU:O	44:BV:33:ARG:CB	2.67	0.41
44:BV:41:LYS:O	44:BV:42:ARG:O	2.38	0.41
44:BV:66:GLU:OE2	44:BV:67:ASP:HA	2.21	0.41
45:BW:65:ARG:HB3	45:BW:70:LEU:HD12	2.00	0.41
46:BX:21:LYS:HG2	46:BX:21:LYS:H	1.63	0.41
46:BX:8:LYS:HZ1	46:BX:28:LYS:CG	2.33	0.41
46:BX:1:MET:CE	46:BX:67:LEU:HB3	2.50	0.41
47:BY:98:MET:SD	47:BY:133:ILE:HG21	2.60	0.41
47:BY:128:VAL:CG2	47:BY:164:ALA:HB2	2.50	0.41
47:BY:65:GLN:HB3	47:BY:67:LEU:CD1	2.51	0.41
48:BZ:25:ARG:HH11	48:BZ:29:GLN:NE2	2.19	0.41
25:BA:1057:A:O4'	25:BA:1084:A:N6	2.52	0.41
25:BA:1101:U:C3'	25:BA:1102:C:H6	2.34	0.41
1:AA:79:G:C2	1:AA:91:C:C2	3.08	0.41
25:BA:380:U:HO2'	25:BA:381:G:H5'	1.80	0.41
26:BB:22:U:O5'	26:BB:22:U:C6	2.72	0.41
1:AA:524:G:C5	1:AA:525:C:N3	2.89	0.41
20:AT:26:GLN:HA	20:AT:37:LYS:HA	2.03	0.41
1:AA:1191:A:N3	1:AA:1191:A:C2'	2.79	0.41
1:AA:136:C:H2'	1:AA:137:C:H6	1.85	0.41
1:AA:1486:G:H8	1:AA:1486:G:O5'	2.04	0.41
1:AA:1500:A:OP1	1:AA:1505:G:P	2.78	0.41
1:AA:1515:C:O2'	1:AA:1516:G:O5'	2.38	0.41
1:AA:781:A:H5''	1:AA:1523:G:C4'	2.50	0.41
1:AA:245:C:N3	1:AA:284:G:C6	2.89	0.41
1:AA:339:C:H2'	1:AA:340:U:O5'	2.20	0.41
1:AA:59:A:N7	1:AA:354:G:C6	2.89	0.41
1:AA:406:G:C2	1:AA:407:G:C8	3.08	0.41
1:AA:430:A:OP2	7:AG:8:VAL:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:410:G:C1'	1:AA:432:A:H61	2.33	0.41
1:AA:511:C:C2	1:AA:512:U:C6	3.09	0.41
1:AA:522:C:N4	1:AA:523:A:N6	2.69	0.41
1:AA:540:G:C6	1:AA:541:G:C5	3.08	0.41
1:AA:592:G:O6	1:AA:648:A:N6	2.53	0.41
1:AA:650:G:N3	1:AA:651:C:C6	2.89	0.41
1:AA:709:G:H2'	1:AA:710:G:H8	1.85	0.41
1:AA:734:G:C2	1:AA:735:C:C2	3.08	0.41
1:AA:826:C:N3	1:AA:827:U:C5	2.89	0.41
1:AA:886:G:C2	1:AA:912:C:O2	2.73	0.41
1:AA:961:U:H6	1:AA:983:A:C2	2.39	0.41
3:AD:19:G:C5'	3:AD:20:U:O4	2.69	0.41
5:AE:102:LEU:HD22	5:AE:176:GLU:OE1	2.21	0.41
5:AE:120:ALA:O	5:AE:122:PHE:N	2.52	0.41
5:AE:162:ILE:HD11	5:AE:184:VAL:HG23	2.01	0.41
5:AE:207:ALA:C	5:AE:209:ARG:N	2.72	0.41
5:AE:84:GLU:OE2	5:AE:219:VAL:CG2	2.69	0.41
5:AE:25:ASN:O	5:AE:26:PRO:C	2.58	0.41
5:AE:87:ARG:O	5:AE:88:ALA:C	2.59	0.41
6:AF:14:ILE:CG1	6:AF:178:LEU:O	2.55	0.41
6:AF:179:ARG:NE	6:AF:206:GLU:CD	2.74	0.41
7:AG:111:ALA:HA	7:AG:161:ASN:ND2	2.35	0.41
7:AG:13:ARG:CG	7:AG:32:ALA:HB2	2.50	0.41
7:AG:162:LEU:CD1	7:AG:181:MET:HG2	2.51	0.41
7:AG:66:ARG:O	7:AG:68:TYR:N	2.53	0.41
8:AH:143:ARG:HB3	8:AH:147:ASP:CB	2.51	0.41
8:AH:9:LYS:HG2	8:AH:112:LEU:HG	2.02	0.41
9:AI:1:MET:SD	9:AI:68:PRO:CD	3.08	0.41
9:AI:82:ARG:HD2	9:AI:82:ARG:HA	1.73	0.41
11:AK:77:GLU:HB3	11:AK:78:GLN:H	1.52	0.41
12:AL:32:ASP:OD1	12:AL:33:PHE:N	2.53	0.41
15:AO:84:LEU:O	15:AO:101:VAL:HG22	2.21	0.41
15:AO:25:PRO:HG2	15:AO:64:TYR:OH	2.21	0.41
15:AO:84:LEU:HG	15:AO:85:ILE:H	1.86	0.41
1:AA:952:U:O2'	16:AP:126:LYS:OXT	2.39	0.41
16:AP:12:ASN:OD1	16:AP:12:ASN:O	2.39	0.41
16:AP:29:ARG:HD3	16:AP:64:TRP:NE1	2.35	0.41
1:AA:1308:U:C3'	16:AP:99:ARG:NH2	2.81	0.41
17:AQ:6:LEU:O	17:AQ:8:GLU:HG2	2.20	0.41
18:AR:34:LEU:CD2	18:AR:35:ARG:N	2.84	0.41
18:AR:65:ARG:HB3	18:AR:65:ARG:NH1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:22:THR:HG22	19:AS:32:TYR:CB	2.49	0.41
19:AS:57:ARG:CG	19:AS:79:VAL:HG12	2.49	0.41
20:AT:41:LYS:O	20:AT:42:TYR:CD1	2.73	0.41
49:B1:23:LYS:HE3	49:B1:55:LEU:HD21	2.02	0.41
50:B2:8:LEU:HB2	50:B2:33:GLN:HG2	2.03	0.41
50:B2:4:LEU:HD13	50:B2:37:LEU:HD22	2.01	0.41
50:B2:4:LEU:HD23	50:B2:5:LYS:N	2.36	0.41
50:B2:19:GLN:HE21	50:B2:50:VAL:HA	1.77	0.41
51:B3:10:VAL:HG21	51:B3:60:GLN:NE2	2.35	0.41
52:B4:48:GLU:OE2	52:B4:48:GLU:N	2.54	0.41
37:BO:45:LEU:CD1	55:B7:59:LYS:HE3	2.36	0.41
25:BA:1269:A:C2	25:BA:1270:C:C4	3.09	0.41
25:BA:1278:A:O2'	25:BA:1279:G:H5'	2.21	0.41
25:BA:1322:A:H8	25:BA:1322:A:OP2	2.02	0.41
25:BA:1342:A:N7	25:BA:1601:G:O6	2.53	0.41
25:BA:1342:A:H3'	25:BA:1342:A:OP2	2.21	0.41
25:BA:1385:G:C6	25:BA:1386:C:N4	2.88	0.41
25:BA:1419:A:OP2	25:BA:1419:A:C4'	2.68	0.41
25:BA:1426:G:N7	25:BA:1427:A:C5	2.88	0.41
25:BA:1511:A:H8	25:BA:1512:G:C5'	2.30	0.41
25:BA:1471:A:C1'	25:BA:1521:G:H22	2.34	0.41
25:BA:1528:A:N1	25:BA:1545:A:N1	2.68	0.41
25:BA:1545(A):A:C8	25:BA:1545(A):A:C3'	3.04	0.41
25:BA:1446:C:O2'	25:BA:1545(A):A:H4'	2.21	0.41
25:BA:1652:A:N7	25:BA:1653:G:N2	2.68	0.41
25:BA:1716:U:H1'	25:BA:1746:G:H21	1.86	0.41
25:BA:1785:A:H2'	25:BA:1786:A:H62	1.85	0.41
25:BA:1364:G:H5''	25:BA:1809:A:C5	2.55	0.41
25:BA:1815:A:H4'	25:BA:1817:G:C8	2.56	0.41
25:BA:184:C:C4	25:BA:213:A:N6	2.88	0.41
25:BA:1886:C:H2'	25:BA:1887:C:C6	2.56	0.41
25:BA:1935:G:C2'	25:BA:1937:A:H2	2.33	0.41
25:BA:1975:G:H2'	25:BA:1976:U:O5'	2.21	0.41
25:BA:1992:G:C6	25:BA:1996:C:N4	2.88	0.41
25:BA:2020:A:C2'	25:BA:2021:C:O5'	2.65	0.41
25:BA:776:G:N1	25:BA:2072:G:OP1	2.52	0.41
25:BA:2087:G:H5''	25:BA:2087:G:C8	2.55	0.41
25:BA:2118:U:OP1	25:BA:2147:G:C6	2.73	0.41
25:BA:2123:G:C2	25:BA:2176:A:C4	3.08	0.41
25:BA:2119:A:N6	25:BA:2171:A:C6	2.89	0.41
25:BA:2251:G:C6	25:BA:2252:G:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2285:C:H3'	25:BA:2285:C:C6	2.56	0.41
25:BA:2391:G:H2'	25:BA:2392:A:OP2	2.21	0.41
25:BA:2415:G:N3	25:BA:2416:C:C6	2.88	0.41
25:BA:2455:G:C2'	25:BA:2456:C:O5'	2.68	0.41
25:BA:2586:C:C3'	25:BA:2586:C:C6	3.04	0.41
25:BA:2671:A:OP2	29:BE:206:LYS:NZ	2.47	0.41
25:BA:454:A:O2'	25:BA:455:C:C5	2.73	0.41
25:BA:479:A:C1'	25:BA:480:A:C8	2.99	0.41
25:BA:514:A:O3'	42:BT:32:PHE:CZ	2.74	0.41
25:BA:571:A:C8	25:BA:2030:A:N6	2.89	0.41
25:BA:574:C:C6	25:BA:2055:C:O5'	2.74	0.41
25:BA:600:G:C2	25:BA:601:C:C2	3.09	0.41
25:BA:674:G:C2	25:BA:804:A:C2	3.09	0.41
25:BA:811:U:O2'	25:BA:812:C:P	2.74	0.41
25:BA:814:C:C4'	25:BA:1224:G:H22	2.34	0.41
25:BA:848:G:O2'	25:BA:934:G:C4'	2.69	0.41
25:BA:862:G:C5	25:BA:863:A:C8	3.08	0.41
25:BA:920:G:N2	25:BA:921:G:C8	2.89	0.41
25:BA:945:A:O2'	25:BA:946:G:P	2.79	0.41
25:BA:973:A:C2'	25:BA:974:G:O5'	2.68	0.41
25:BA:987:G:O2'	25:BA:988:A:H5'	2.20	0.41
26:BB:103:U:C4'	26:BB:103:U:C6	3.04	0.41
26:BB:52:A:N3	26:BB:53:A:C1'	2.83	0.41
25:BA:861:A:C2	26:BB:79:C:H1'	2.54	0.41
26:BB:82:G:HO2'	26:BB:83:G:C5'	2.32	0.41
27:BC:118:ASP:OD1	27:BC:119:VAL:HG13	2.20	0.41
27:BC:162:GLU:O	27:BC:163:PHE:HD2	2.02	0.41
27:BC:56:GLN:NE2	27:BC:203:GLY:C	2.74	0.41
27:BC:82:LYS:O	27:BC:149:ILE:HG21	2.21	0.41
28:BD:154:LYS:HG3	28:BD:154:LYS:O	2.20	0.41
28:BD:201:HIS:CD2	28:BD:202:LYS:CD	3.01	0.41
28:BD:34:VAL:HG22	28:BD:94:LEU:HD22	2.02	0.41
29:BE:171:GLU:O	29:BE:184:VAL:HG12	2.21	0.41
29:BE:2:LYS:CB	29:BE:2:LYS:NZ	2.83	0.41
29:BE:37:ARG:HA	29:BE:44:TYR:CE2	2.56	0.41
29:BE:46:ALA:O	29:BE:48:GLN:NE2	2.49	0.41
30:BF:137:LYS:NZ	30:BF:140:LEU:CB	2.84	0.41
30:BF:152:GLU:HA	30:BF:152:GLU:OE2	2.21	0.41
30:BF:182:ASN:ND2	30:BF:185:ASP:CG	2.67	0.41
30:BF:121:GLY:HA3	30:BF:191:ARG:HH11	1.81	0.41
30:BF:192:LEU:HD11	30:BF:194:MET:CG	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:23:ASP:O	30:BF:24:LEU:HD23	2.21	0.41
31:BG:14:GLU:O	31:BG:17:PRO:HG2	2.20	0.41
31:BG:37:VAL:HG11	31:BG:159:VAL:HG12	2.03	0.41
31:BG:174:GLU:CA	31:BG:179:PRO:HB3	2.49	0.41
31:BG:19:LEU:HG	31:BG:22:ARG:NH1	2.36	0.41
31:BG:39:ILE:CD1	31:BG:39:ILE:N	2.78	0.41
32:BH:117:PRO:HA	32:BH:118:PRO:HD2	1.94	0.41
32:BH:171:LEU:CA	32:BH:172:LYS:NZ	2.84	0.41
35:BM:99:LEU:O	35:BM:102:ALA:HB3	2.20	0.41
36:BN:63:VAL:HG12	36:BN:78:ARG:HD2	2.01	0.41
36:BN:78:ARG:N	36:BN:78:ARG:CZ	2.83	0.41
37:BO:72:PRO:CB	37:BO:110:TYR:C	2.86	0.41
37:BO:122:PRO:O	37:BO:123:LEU:CG	2.69	0.41
37:BO:114:ILE:CD1	37:BO:130:PHE:CD2	3.03	0.41
37:BO:54:GLY:HA2	55:B7:12:LYS:HZ2	1.85	0.41
37:BO:79:ARG:CZ	37:BO:83:VAL:CG1	2.98	0.41
38:BP:35:VAL:O	38:BP:35:VAL:CG1	2.69	0.41
40:BR:11:LYS:HB2	40:BR:11:LYS:HZ2	1.80	0.41
41:BS:53:ARG:O	41:BS:100:TYR:CD2	2.64	0.41
41:BS:52:ILE:CA	41:BS:66:VAL:CG1	2.91	0.41
43:BU:39:LEU:C	43:BU:40:LEU:HD12	2.37	0.41
44:BV:7:ALA:CB	44:BV:103:ILE:CD1	2.92	0.41
44:BV:89:ALA:C	44:BV:91:GLY:N	2.73	0.41
45:BW:30:VAL:O	45:BW:77:LYS:CG	2.68	0.41
45:BW:71:GLY:C	45:BW:72:LYS:HG3	2.41	0.41
46:BX:13:VAL:CB	46:BX:73:ARG:NE	2.74	0.41
46:BX:92:ASN:HB2	46:BX:93:GLY:H	1.45	0.41
47:BY:14:LYS:HB2	47:BY:15:PRO:HD2	2.02	0.41
48:BZ:59:LEU:H	48:BZ:59:LEU:HD12	1.86	0.41
48:BZ:52:GLY:O	48:BZ:60:PHE:HD2	2.03	0.41
34:BL:52:ILE:HG13	34:BL:80:LYS:HZ1	1.85	0.41
1:AA:434:U:C2	1:AA:435:C:C5	3.09	0.41
1:AA:1029:G:C2	1:AA:1032(A):G:O6	2.73	0.41
1:AA:1004:A:C8	1:AA:1037:C:N4	2.88	0.41
1:AA:1088:G:C6	1:AA:1089:G:N7	2.89	0.41
1:AA:1091:U:O2	1:AA:1095:U:C5	2.73	0.41
1:AA:1110:A:N7	1:AA:1111:A:N7	2.69	0.41
1:AA:1178:G:C8	1:AA:1180:A:OP2	2.74	0.41
1:AA:1232:U:O5'	1:AA:1232:U:C6	2.74	0.41
1:AA:1290:G:C6	1:AA:1291:G:C8	3.09	0.41
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1366:C:O2'	1:AA:1367:C:H5'	2.20	0.41
1:AA:1287:A:N6	1:AA:1371:G:O4'	2.54	0.41
1:AA:1376:U:H2'	1:AA:1377:A:N7	2.36	0.41
1:AA:1418:A:N6	1:AA:1483:A:C5	2.89	0.41
1:AA:1434:A:H8	1:AA:1434:A:O5'	2.03	0.41
1:AA:1475:G:O2'	1:AA:1476:G:C5'	2.67	0.41
1:AA:1530:G:C2	1:AA:1531:A:C2	3.08	0.41
1:AA:155:C:H2'	1:AA:156:G:H5'	2.00	0.41
1:AA:296:U:O2	1:AA:302:G:C2	2.73	0.41
1:AA:340:U:O2'	1:AA:341:C:O5'	2.38	0.41
1:AA:38:G:N2	1:AA:397:A:O4'	2.54	0.41
1:AA:518:C:C2	1:AA:529:G:O6	2.73	0.41
1:AA:577:G:H21	1:AA:578:C:H1'	1.86	0.41
1:AA:585:G:H2'	1:AA:586:C:O5'	2.21	0.41
1:AA:592:G:C2	1:AA:593:G:C8	3.08	0.41
1:AA:596:C:C2'	1:AA:597:G:O5'	2.69	0.41
1:AA:610:G:H2'	1:AA:611:A:O5'	2.21	0.41
1:AA:618:C:C6	1:AA:620:C:OP2	2.72	0.41
1:AA:677:U:C2'	1:AA:678:U:C5	2.91	0.41
1:AA:687:A:O2'	1:AA:688:G:O4'	2.39	0.41
1:AA:720:C:N3	1:AA:721:G:C5	2.88	0.41
1:AA:734:G:OP1	1:AA:734:G:C8	2.60	0.41
1:AA:756:C:O2'	1:AA:823:G:H1'	2.21	0.41
1:AA:827:U:O5'	1:AA:827:U:H6	2.04	0.41
1:AA:831:U:C2	1:AA:832:C:C5	3.08	0.41
1:AA:868:C:H5'	1:AA:873:A:N6	2.36	0.41
1:AA:909:A:C2'	1:AA:910:C:C5'	2.94	0.41
1:AA:864:A:C2	1:AA:917:G:C2	3.08	0.41
1:AA:961:U:C5	1:AA:983:A:C6	3.07	0.41
2:AC:34:C:C6	2:AC:34:C:O5'	2.72	0.41
2:AC:4:G:C4	2:AC:5:G:C8	3.09	0.41
2:AC:71:C:H2'	2:AC:72:A:O5'	2.21	0.41
3:AD:57:G:H2'	3:AD:58:A:H5''	2.02	0.41
3:AD:56:C:N4	3:AD:57:G:N2	2.69	0.41
5:AE:115:LEU:CD2	5:AE:149:LEU:CB	2.93	0.41
5:AE:187:LEU:C	5:AE:187:LEU:HD13	2.41	0.41
5:AE:33:TYR:HA	5:AE:33:TYR:HD1	1.73	0.41
5:AE:57:PHE:CE2	5:AE:64:ARG:NH1	2.87	0.41
6:AF:31:HIS:HA	6:AF:34:LEU:HD13	2.02	0.41
7:AG:123:HIS:CD2	7:AG:123:HIS:N	2.85	0.41
7:AG:123:HIS:HB2	7:AG:125:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:128:VAL:CG2	7:AG:133:VAL:CG2	2.96	0.41
7:AG:188:LEU:O	7:AG:189:PRO:O	2.37	0.41
7:AG:65:ARG:NE	7:AG:72:GLU:CA	2.83	0.41
8:AH:108:ALA:O	8:AH:112:LEU:CB	2.59	0.41
9:AI:38:GLU:O	9:AI:39:LYS:HD2	2.21	0.41
9:AI:45:LEU:HA	9:AI:59:TYR:HA	2.01	0.41
9:AI:98:LEU:HD21	21:AU:28:GLU:HG2	2.02	0.41
11:AK:126:LYS:NZ	11:AK:127:LEU:CG	2.82	0.41
12:AL:49:PRO:HG2	12:AL:81:ILE:HB	1.99	0.41
14:AN:25:TYR:CD1	14:AN:89:ALA:N	2.88	0.41
1:AA:706:A:C1'	14:AN:29:ILE:HD12	2.50	0.41
15:AO:68:ALA:HB1	15:AO:99:HIS:CA	2.33	0.41
15:AO:85:ILE:CD1	15:AO:98:TYR:CB	2.93	0.41
17:AQ:14:PRO:CB	17:AQ:17:LYS:HA	2.50	0.41
17:AQ:34:TYR:HB2	17:AQ:35:ARG:H	1.63	0.41
18:AR:79:ARG:CB	18:AR:79:ARG:NH1	2.72	0.41
19:AS:7:ALA:CB	19:AS:18:ARG:HB2	2.47	0.41
20:AT:23:VAL:HG13	20:AT:23:VAL:O	2.19	0.41
20:AT:60:ILE:HG22	20:AT:72:ARG:O	2.21	0.41
22:AV:37:ARG:HH11	22:AV:70:LYS:HD3	1.86	0.41
22:AV:41:VAL:O	22:AV:44:MET:HB2	2.20	0.41
1:AA:108:G:C6	23:AW:15:ARG:CD	3.03	0.41
23:AW:45:GLN:HG2	23:AW:91:LEU:HD13	2.02	0.41
23:AW:54:LYS:O	23:AW:57:ARG:HB2	2.21	0.41
23:AW:88:VAL:O	23:AW:92:LEU:CD1	2.68	0.41
49:B1:24:LYS:O	49:B1:27:LEU:N	2.53	0.41
50:B2:31:LEU:CD1	50:B2:31:LEU:C	2.86	0.41
51:B3:12:ALA:HA	51:B3:40:HIS:HE1	1.85	0.41
51:B3:51:ASP:C	51:B3:52:THR:HG1	2.19	0.41
52:B4:35:GLU:CD	52:B4:51:TYR:CE2	2.94	0.41
53:B5:21:TYR:CD2	53:B5:21:TYR:O	2.74	0.41
53:B5:9:LEU:CD2	53:B5:27:LYS:HG3	2.50	0.41
56:B8:19:ARG:O	56:B8:19:ARG:HD3	2.21	0.41
25:BA:108:U:O2'	25:BA:109:G:O4'	2.38	0.41
25:BA:1109:C:C2	25:BA:1110:G:C2	3.09	0.41
25:BA:1139:G:C8	25:BA:1139:G:H3'	2.56	0.41
25:BA:1153:C:N1	25:BA:1154:G:N7	2.68	0.41
25:BA:1223:C:N4	43:BU:88:ARG:CZ	2.81	0.41
25:BA:1304:C:H6	25:BA:1304:C:O5'	2.04	0.41
25:BA:1326:U:O2	25:BA:1327:C:O4'	2.39	0.41
25:BA:1520:U:C2'	25:BA:1521:G:O4'	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:155:C:N3	25:BA:171:G:N2	2.69	0.41
25:BA:1564:C:O2	25:BA:1565:C:O2	2.38	0.41
25:BA:1599:C:OP2	45:BW:36:LYS:NZ	2.52	0.41
25:BA:1603:A:C2	25:BA:1604:C:N3	2.89	0.41
25:BA:1632:A:O3'	25:BA:1633:G:O4'	2.38	0.41
25:BA:1635:G:C2'	25:BA:1636:C:H5'	2.50	0.41
25:BA:1637:A:O2'	25:BA:1638:C:H5'	2.21	0.41
25:BA:1731:G:H22	25:BA:1733:G:H22	1.67	0.41
25:BA:1774:C:C6	25:BA:1774:C:H3'	2.53	0.41
25:BA:1779:U:H6	25:BA:1779:U:C3'	2.23	0.41
25:BA:1800:C:O2'	25:BA:1802:A:C1'	2.69	0.41
25:BA:1813:G:H4'	28:BD:46:GLN:HB3	1.96	0.41
25:BA:1856:G:N7	25:BA:1857:G:C2	2.89	0.41
25:BA:1903:G:H5''	25:BA:1904:G:OP2	2.21	0.41
25:BA:980:A:H2	25:BA:2038:G:O4'	2.01	0.41
25:BA:677:A:H4'	25:BA:2070:G:O2'	2.21	0.41
25:BA:2149:G:C2	25:BA:2150:U:C2	3.09	0.41
25:BA:2208:U:H2'	25:BA:2208:U:O2	2.21	0.41
25:BA:2260:C:H2'	25:BA:2261:C:O5'	2.21	0.41
25:BA:2261:C:O5'	25:BA:2261:C:H6	2.03	0.41
25:BA:2335:A:N6	25:BA:2337:G:N2	2.69	0.41
25:BA:2411:A:H8	25:BA:2411:A:O5'	2.04	0.41
25:BA:2416:C:O2	25:BA:2417:C:C6	2.73	0.41
25:BA:676:A:O4'	25:BA:2443:C:H4'	2.21	0.41
25:BA:2466:C:C4	25:BA:2485:G:N1	2.89	0.41
25:BA:2486:G:N1	25:BA:2487:G:C5	2.88	0.41
25:BA:2490:G:O2'	25:BA:2491:U:H5'	2.20	0.41
25:BA:2492:U:C2'	25:BA:2493:U:O5'	2.68	0.41
25:BA:255:A:O2'	25:BA:256:A:H5'	2.21	0.41
25:BA:1939:U:H1'	25:BA:2592:G:C1'	2.51	0.41
25:BA:2053:G:O6	25:BA:2614:A:C2	2.74	0.41
25:BA:2633:G:H2'	25:BA:2634:G:O5'	2.21	0.41
25:BA:270(Q):C:N3	25:BA:270(R):G:N7	2.69	0.41
25:BA:2746:U:O4	25:BA:2747:G:N7	2.53	0.41
25:BA:2756:U:C4	25:BA:2758:A:N6	2.89	0.41
25:BA:2764:A:H8	25:BA:2764:A:H5''	1.85	0.41
25:BA:2888:C:H2'	25:BA:2889:C:H6	1.86	0.41
25:BA:2788:C:O2	25:BA:2892:A:C2	2.74	0.41
25:BA:2631:G:H4'	25:BA:2892:A:O5'	2.21	0.41
25:BA:458:G:N3	25:BA:469:G:O6	2.53	0.41
25:BA:485:C:H2'	25:BA:486:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:59:U:O4'	25:BA:73:A:N1	2.52	0.41
25:BA:601:C:O2'	30:BF:104:LYS:NZ	2.53	0.41
25:BA:613:U:H5	25:BA:614:U:O2	2.03	0.41
25:BA:693:C:H2'	25:BA:694:U:O5'	2.20	0.41
25:BA:59:U:C1'	25:BA:73:A:C2	3.03	0.41
25:BA:774:A:H5'	25:BA:778:G:O4'	2.20	0.41
25:BA:818:G:C2	25:BA:1190:G:C6	3.08	0.41
25:BA:864:G:C2'	25:BA:865:C:H1'	2.51	0.41
25:BA:910:A:C2'	25:BA:911:A:O5'	2.68	0.41
25:BA:982:C:H6	25:BA:982:C:O5'	2.04	0.41
25:BA:997:G:O3'	42:BT:92:ARG:NH1	2.53	0.41
25:BA:997:G:O6	25:BA:1159:U:O4	2.39	0.41
26:BB:66:A:C2	26:BB:107:U:C2	3.09	0.41
27:BC:138:PRO:HA	27:BC:144:THR:CB	2.32	0.41
27:BC:59:ARG:NH1	27:BC:59:ARG:HB3	2.36	0.41
27:BC:63:SER:HA	27:BC:161:ILE:HD11	2.03	0.41
27:BC:75:LEU:HD23	27:BC:77:ILE:HD11	2.02	0.41
28:BD:12:SER:O	28:BD:13:ARG:C	2.59	0.41
28:BD:234:GLY:CA	28:BD:241:PRO:HG3	2.51	0.41
25:BA:1813:G:O2'	28:BD:46:GLN:CD	2.58	0.41
29:BE:133:LYS:HZ3	29:BE:136:ARG:HH21	1.67	0.41
29:BE:15:PHE:CE1	29:BE:16:ARG:HG3	2.56	0.41
29:BE:37:ARG:HA	29:BE:44:TYR:HD2	1.83	0.41
29:BE:64:LYS:O	29:BE:67:PHE:HB2	2.21	0.41
29:BE:49:LEU:CD2	29:BE:74:PRO:HB2	2.47	0.41
30:BF:108:LYS:HB2	30:BF:108:LYS:HE3	1.87	0.41
30:BF:126:VAL:O	30:BF:126:VAL:HG22	2.20	0.41
30:BF:137:LYS:CA	30:BF:137:LYS:HZ2	2.33	0.41
30:BF:159:GLY:O	30:BF:161:GLU:N	2.53	0.41
30:BF:69:HIS:C	30:BF:70:THR:OG1	2.59	0.41
31:BG:107:LEU:HD12	31:BG:111:LEU:HD22	2.02	0.41
31:BG:142:PRO:O	31:BG:143:GLU:OE1	2.38	0.41
32:BH:149:ARG:CA	32:BH:162:ILE:CD1	2.88	0.41
32:BH:164:TYR:OH	32:BH:169:VAL:HG12	2.21	0.41
32:BH:98:LEU:C	32:BH:99:VAL:HG23	2.41	0.41
25:BA:558:G:OP1	35:BM:109:LYS:CG	2.69	0.41
35:BM:15:LEU:CD1	35:BM:137:LYS:HB3	2.44	0.41
35:BM:29:LYS:C	35:BM:31:ALA:N	2.71	0.41
36:BN:64:ARG:CZ	36:BN:68:GLU:N	2.83	0.41
36:BN:86:ILE:HG21	36:BN:90:GLN:HA	2.03	0.41
38:BP:27:VAL:O	38:BP:28:ALA:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BP:48:GLU:N	38:BP:48:GLU:OE1	2.54	0.41
39:BQ:97:VAL:HG22	39:BQ:114:VAL:CG1	2.50	0.41
40:BR:106:ARG:HD3	40:BR:107:GLU:N	2.36	0.41
41:BS:33:LYS:CD	41:BS:45:PHE:CE2	3.04	0.41
42:BT:111:GLU:O	42:BT:114:LYS:CG	2.67	0.41
42:BT:6:THR:O	42:BT:7:GLY:C	2.58	0.41
43:BU:62:LEU:C	43:BU:64:HIS:CE1	2.94	0.41
44:BV:18:ARG:HH21	44:BV:18:ARG:CG	2.15	0.41
44:BV:51:LEU:N	44:BV:51:LEU:HD12	2.34	0.41
45:BW:38:GLU:O	45:BW:41:ASN:HB2	2.21	0.41
46:BX:2:ARG:O	46:BX:3:VAL:C	2.57	0.41
47:BY:48:PHE:HB3	47:BY:54:HIS:HE2	1.83	0.41
47:BY:60:GLU:O	47:BY:62:PRO:HD3	2.21	0.41
47:BY:82:ARG:HE	47:BY:82:ARG:HB3	1.42	0.41
48:BZ:16:SER:O	48:BZ:17:GLN:O	2.38	0.41
48:BZ:33:ALA:CA	48:BZ:61:ALA:O	2.64	0.41
33:BK:93:THR:HG23	33:BK:95:LYS:CA	2.51	0.41
25:BA:1058:G:N2	25:BA:1059:G:C8	2.89	0.41
25:BA:1080:C:N3	25:BA:1081:U:C5	2.89	0.41
25:BA:1104:C:C2	25:BA:1105:U:C2	3.09	0.41
34:BL:108:ALA:CA	34:BL:127:ILE:HD11	2.51	0.41
34:BL:18:THR:N	34:BL:38:VAL:CG2	2.83	0.41
34:BL:12:LEU:HD13	34:BL:41:PHE:CE1	2.55	0.41
34:BL:55:VAL:HG22	34:BL:69:THR:CB	2.50	0.41
34:BL:75:SER:HA	34:BL:78:ILE:HD12	2.02	0.41
1:AA:1037:C:H2'	1:AA:1038:C:O4'	2.19	0.41
1:AA:1039:C:C2'	1:AA:1040:U:O5'	2.69	0.41
1:AA:1077:G:H1'	1:AA:1081:G:H22	1.84	0.41
1:AA:1401:G:C8	1:AA:1402:C:C6	3.09	0.41
1:AA:1435:G:H8	1:AA:1435:G:OP2	2.04	0.41
1:AA:155:C:H2'	1:AA:156:G:C5'	2.50	0.41
1:AA:172:A:N7	1:AA:174:C:C4	2.88	0.41
1:AA:179:A:H2'	1:AA:180:U:O4'	2.21	0.41
1:AA:230:G:C2	1:AA:231:G:C4	3.08	0.41
1:AA:278:G:C4'	1:AA:282:A:H1'	2.51	0.41
1:AA:351:G:C8	1:AA:351:G:O5'	2.74	0.41
1:AA:354:G:N1	1:AA:355:C:C4	2.88	0.41
1:AA:401:C:OP1	7:AG:73:ARG:NH2	2.54	0.41
1:AA:407:G:C4	1:AA:408:A:C8	3.09	0.41
1:AA:571:U:H4'	1:AA:819:A:N6	2.35	0.41
1:AA:609:A:N3	1:AA:610:G:N9	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:62:U:H1'	1:AA:379:C:H1'	2.02	0.41
1:AA:671:G:C2	1:AA:672:U:H1'	2.55	0.41
1:AA:675:A:C2'	1:AA:676:A:C8	3.00	0.41
1:AA:686:U:OP1	1:AA:686:U:C4'	2.68	0.41
1:AA:715:A:H4'	1:AA:777:A:H61	1.85	0.41
1:AA:778:G:C3'	1:AA:779:C:H6	2.34	0.41
1:AA:910:C:C2'	1:AA:911:U:H5'	2.50	0.41
1:AA:970:C:O2	16:AP:126:LYS:HD2	2.21	0.41
1:AA:981:U:C4	1:AA:982:U:N3	2.89	0.41
3:AD:48:C:O2'	3:AD:49:G:P	2.78	0.41
5:AE:127:ILE:CG2	5:AE:128:GLU:HG2	2.38	0.41
5:AE:179:LYS:HE3	5:AE:179:LYS:HB2	1.90	0.41
5:AE:189:ASP:OD1	5:AE:205:ASP:HB3	2.21	0.41
6:AF:110:ASN:O	6:AF:141:VAL:HG13	2.21	0.41
6:AF:142:MET:HB2	6:AF:148:GLY:C	2.41	0.41
6:AF:191:THR:OG1	6:AF:196:LEU:CD2	2.64	0.41
7:AG:83:SER:HA	7:AG:89:THR:CB	2.47	0.41
7:AG:82:ALA:CB	7:AG:93:PHE:HB2	2.51	0.41
8:AH:114:GLY:O	8:AH:115:VAL:CG1	2.56	0.41
8:AH:109:ILE:HD11	8:AH:136:MET:HG2	2.02	0.41
8:AH:19:MET:HE1	8:AH:20:GLN:O	2.21	0.41
8:AH:52:PRO:O	8:AH:55:VAL:N	2.54	0.41
9:AI:12:PRO:HG3	9:AI:55:ASP:OD2	2.21	0.41
9:AI:4:TYR:CB	9:AI:91:VAL:O	2.55	0.41
10:AJ:151:TYR:O	10:AJ:152:ALA:C	2.57	0.41
10:AJ:12:LEU:HD13	10:AJ:21:VAL:HG12	2.03	0.41
11:AK:25:ASP:OD2	11:AK:51:VAL:HG21	2.20	0.41
11:AK:85:ARG:C	11:AK:86:ILE:HD12	2.41	0.41
11:AK:88:LYS:HZ3	11:AK:88:LYS:HB2	1.86	0.41
12:AL:109:VAL:O	12:AL:109:VAL:CG1	2.68	0.41
12:AL:2:GLU:CA	12:AL:21:PRO:HD2	2.49	0.41
12:AL:5:TYR:HD2	12:AL:6:GLY:N	2.17	0.41
13:AM:79:ARG:HH12	13:AM:82:ILE:CG1	2.32	0.41
14:AN:73:MET:O	14:AN:74:ALA:C	2.59	0.41
16:AP:8:GLU:OE1	16:AP:10:PRO:CG	2.64	0.41
6:AF:12:LEU:CD1	17:AQ:57:ARG:HA	2.50	0.41
18:AR:29:VAL:O	18:AR:33:THR:OG1	2.38	0.41
18:AR:53:HIS:C	18:AR:57:LEU:HD13	2.40	0.41
18:AR:65:ARG:HH11	18:AR:65:ARG:CB	2.34	0.41
19:AS:43:LYS:CG	19:AS:48:TRP:HZ3	2.34	0.41
19:AS:49:LEU:HG	19:AS:50:LYS:N	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:29:HIS:CG	20:AT:32:TYR:HB2	2.55	0.41
49:B1:2:ARG:HA	49:B1:5:LEU:HB2	2.02	0.41
49:B1:7:GLU:CD	49:B1:7:GLU:N	2.74	0.41
51:B3:5:ILE:CG1	51:B3:10:VAL:H	2.30	0.41
51:B3:66:SER:O	51:B3:67:TYR:C	2.59	0.41
53:B5:15:GLU:HB2	53:B5:53:LYS:CG	2.51	0.41
25:BA:126:A:C4	54:B6:18:PHE:CG	3.09	0.41
55:B7:13:ARG:O	55:B7:14:VAL:CB	2.45	0.41
25:BA:111:A:C2	25:BA:112:U:N3	2.89	0.41
25:BA:1226:G:C3'	25:BA:1226:G:C8	3.04	0.41
25:BA:1241:A:C2'	25:BA:1242:A:OP1	2.68	0.41
25:BA:1268:A:C5	25:BA:2013:A:C5	3.08	0.41
25:BA:1307:A:C2	25:BA:1308:A:C1'	3.03	0.41
25:BA:1320:C:H2'	25:BA:1321:A:OP2	2.20	0.41
25:BA:1326:U:C2	25:BA:1327:C:O4'	2.73	0.41
25:BA:1355:G:N1	25:BA:1377:G:C2	2.89	0.41
25:BA:1424:G:C2'	25:BA:1425:G:H5'	2.51	0.41
25:BA:1444(A):A:H2'	25:BA:1460:A:O2'	2.20	0.41
25:BA:1486:A:O2'	25:BA:1487:G:C5'	2.67	0.41
25:BA:1741:C:O3'	25:BA:1742:C:O4'	2.39	0.41
25:BA:1754:C:C4	25:BA:1755:A:C6	3.09	0.41
25:BA:1770:G:C4	25:BA:1771:C:C6	3.09	0.41
25:BA:1782:C:C2	25:BA:2609:U:C5	3.09	0.41
25:BA:1947:C:H5''	25:BA:1947:C:H6	1.84	0.41
25:BA:1953:A:N3	25:BA:2560:C:H1'	2.36	0.41
25:BA:2009:G:H4'	44:BV:40:ASN:HD21	1.86	0.41
25:BA:2023:G:N1	25:BA:2041:U:N3	2.69	0.41
25:BA:2085:C:C2'	25:BA:2086:U:C5'	2.99	0.41
25:BA:2280:G:C6	25:BA:2281:C:N4	2.89	0.41
25:BA:2303:G:C6	25:BA:2304:G:N7	2.89	0.41
25:BA:2332:U:O2'	25:BA:2333:A:H5''	2.21	0.41
25:BA:2387:U:C1'	48:BZ:41:ARG:HH22	2.30	0.41
25:BA:2326:C:N4	25:BA:2389:G:N1	2.69	0.41
25:BA:2389:G:C5'	25:BA:2390:U:H6	2.32	0.41
25:BA:2467:C:OP1	56:B8:8:LYS:CE	2.69	0.41
25:BA:2507:C:C2	25:BA:2583:G:N3	2.88	0.41
25:BA:2578:G:N7	29:BE:140:SER:HA	2.35	0.41
25:BA:2586:C:H3'	25:BA:2586:C:C6	2.56	0.41
25:BA:2749:A:C8	25:BA:2749:A:C3'	3.04	0.41
25:BA:2819:G:C4	25:BA:2821:A:N6	2.89	0.41
25:BA:2848:G:C2'	41:BS:99:LEU:HD11	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2852:G:HO2'	25:BA:2853:C:P	2.44	0.41
25:BA:287:C:C2'	25:BA:288:C:C6	3.03	0.41
25:BA:297:C:H5''	46:BX:83:THR:OG1	2.20	0.41
25:BA:307:G:C2	25:BA:309:G:H5''	2.55	0.41
25:BA:336:C:O2'	46:BX:67:LEU:CD2	2.69	0.41
25:BA:363(D):G:C2	25:BA:363(E):U:C2	3.09	0.41
25:BA:374:A:C3'	25:BA:375:C:C6	2.88	0.41
25:BA:416:C:H41	25:BA:417:C:N4	2.16	0.41
25:BA:216:A:C5	25:BA:432:A:C2	3.09	0.41
25:BA:476:G:O2'	25:BA:477:A:C8	2.64	0.41
25:BA:527:C:H1'	25:BA:528:A:N1	2.36	0.41
25:BA:598:G:H2'	25:BA:599:G:O4'	2.20	0.41
25:BA:613:U:C5'	25:BA:614:U:C5	3.01	0.41
25:BA:614:U:O5'	25:BA:615:G:C4'	2.69	0.41
25:BA:646:A:HO2'	25:BA:647:G:C5'	2.33	0.41
25:BA:662:G:C2	25:BA:663:G:N7	2.89	0.41
25:BA:746:A:HO2'	25:BA:747:U:P	2.44	0.41
25:BA:792:G:C6	25:BA:2440:C:C6	3.09	0.41
25:BA:802:A:C4	25:BA:803:U:C5	3.08	0.41
25:BA:837:C:H2'	25:BA:838:C:O5'	2.19	0.41
25:BA:857:C:C3'	25:BA:857:C:C6	3.03	0.41
25:BA:872:A:C2	25:BA:873:G:C5	3.08	0.41
25:BA:870:A:C6	25:BA:908:C:N4	2.89	0.41
25:BA:943:U:OP2	37:BO:32:THR:HB	2.20	0.41
25:BA:94:G:H21	49:B1:42:ASN:ND2	2.19	0.41
26:BB:12:C:C5	48:BZ:74:ARG:C	2.93	0.41
26:BB:43:C:N3	26:BB:45:A:C8	2.88	0.41
26:BB:63:G:H2'	26:BB:64:C:C5	2.55	0.41
27:BC:100:ILE:O	27:BC:103:ILE:HB	2.21	0.41
27:BC:177:LYS:O	27:BC:185:LEU:HD21	2.20	0.41
27:BC:22:ILE:HG13	27:BC:22:ILE:H	1.67	0.41
28:BD:147:LEU:HD23	28:BD:147:LEU:H	1.85	0.41
28:BD:21:PHE:O	28:BD:205:VAL:CG1	2.68	0.41
28:BD:68:LYS:HB3	28:BD:69:ARG:H	1.59	0.41
29:BE:119:ARG:HH11	29:BE:120:TRP:HA	1.86	0.41
29:BE:141:ILE:HG13	29:BE:141:ILE:H	1.65	0.41
29:BE:25:VAL:CG2	29:BE:182:LEU:O	2.65	0.41
30:BF:158:THR:HG22	30:BF:159:GLY:N	2.36	0.41
31:BG:163:ALA:O	31:BG:164:GLU:C	2.59	0.41
25:BA:2305:A:C5	31:BG:42:GLY:CA	3.02	0.41
32:BH:7:LEU:O	32:BH:51:ARG:CD	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BK:22:LYS:O	33:BK:26:ALA:HB2	2.20	0.41
35:BM:27:ALA:CB	35:BM:106:MET:HE2	2.51	0.41
35:BM:21:LYS:CB	35:BM:26:LEU:HD22	2.51	0.41
35:BM:31:ALA:C	35:BM:33:LEU:N	2.74	0.41
35:BM:68:GLU:H	35:BM:70:LYS:HE2	1.85	0.41
37:BO:23:PRO:CG	37:BO:30:THR:H	2.33	0.41
38:BP:35:VAL:HG22	38:BP:36:ALA:O	2.20	0.41
38:BP:36:ALA:HB1	38:BP:39:PRO:HG2	2.02	0.41
38:BP:41:TRP:HD1	38:BP:94:VAL:HG22	1.86	0.41
38:BP:45:GLN:O	38:BP:46:GLN:C	2.58	0.41
39:BQ:18:LEU:HD12	39:BQ:22:ARG:NH2	2.25	0.41
39:BQ:86:ARG:CZ	39:BQ:86:ARG:CB	2.98	0.41
39:BQ:93:GLY:C	39:BQ:95:THR:N	2.73	0.41
41:BS:31:SER:CA	41:BS:32:TYR:CZ	3.04	0.41
41:BS:57:PHE:CA	41:BS:61:PHE:HD2	2.22	0.41
29:BE:8:LYS:CG	41:BS:7:ILE:HD11	2.36	0.41
42:BT:98:LEU:C	42:BT:100:VAL:N	2.72	0.41
43:BU:15:GLU:HA	43:BU:100:ARG:NH2	2.33	0.41
43:BU:20:LEU:HD22	43:BU:66:ARG:HH21	1.86	0.41
43:BU:11:GLN:HB3	43:BU:21:ARG:HB3	2.02	0.41
43:BU:80:GLN:O	43:BU:81:TYR:C	2.57	0.41
25:BA:566:U:P	43:BU:82:ARG:CZ	3.09	0.41
44:BV:18:ARG:O	44:BV:22:ASP:OD2	2.39	0.41
45:BW:65:ARG:CA	45:BW:70:LEU:HD12	2.49	0.41
46:BX:56:PRO:HB2	46:BX:57:GLN:H	1.71	0.41
47:BY:73:GLN:O	47:BY:74:VAL:CG2	2.60	0.41
48:BZ:46:LYS:CE	48:BZ:76:GLY:HA3	2.51	0.41
1:AA:1157:A:C6	1:AA:1180:A:C5	3.09	0.41
1:AA:1206:G:H2'	1:AA:1207:G:H8	1.82	0.41
1:AA:1222:G:C2	1:AA:1223:C:O2	2.74	0.41
1:AA:1264:C:N4	1:AA:1266:G:H22	2.19	0.41
1:AA:1295:G:O2'	16:AP:14:ARG:NH2	2.54	0.41
1:AA:132:C:N3	1:AA:133:U:C4	2.89	0.41
1:AA:1378:C:N4	1:AA:1379:G:C4	2.89	0.41
1:AA:1466:C:H2'	1:AA:1467:G:C8	2.55	0.41
1:AA:1526:G:H2'	1:AA:1527:C:C6	2.53	0.41
1:AA:159:G:C2	1:AA:161:A:OP2	2.74	0.41
1:AA:20:U:O2	1:AA:20:U:H3'	2.21	0.41
1:AA:219:C:N4	1:AA:220:G:C8	2.89	0.41
1:AA:285:G:N3	1:AA:286:G:C8	2.89	0.41
1:AA:39:G:O2'	1:AA:40:C:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:47:C:O2'	1:AA:48:C:P	2.79	0.41
1:AA:690:G:H22	1:AA:696:A:N6	2.19	0.41
1:AA:761:G:N3	1:AA:761:G:H2'	2.35	0.41
1:AA:798:G:C6	1:AA:799:G:N7	2.89	0.41
1:AA:969:A:OP1	1:AA:969:A:C4'	2.69	0.41
1:AA:969:A:H5'	1:AA:970:C:OP2	2.20	0.41
2:AC:59:A:H3'	2:AC:60:U:H6	1.86	0.41
5:AE:164:VAL:HG22	5:AE:165:VAL:N	2.35	0.41
5:AE:16:HIS:O	5:AE:17:PHE:C	2.59	0.41
5:AE:62:ALA:HB3	5:AE:225:ALA:CB	2.49	0.41
5:AE:55:PHE:O	5:AE:58:ILE:CB	2.69	0.41
5:AE:74:LYS:CE	5:AE:76:GLN:HB2	2.51	0.41
6:AF:84:ILE:HA	6:AF:101:LEU:HD11	2.02	0.41
6:AF:108:ASN:HD21	6:AF:110:ASN:HB2	1.83	0.41
6:AF:34:LEU:CD2	6:AF:35:GLU:N	2.75	0.41
6:AF:53:ALA:HB3	6:AF:69:HIS:O	2.21	0.41
1:AA:407:G:H5''	7:AG:115:ARG:HG2	2.03	0.41
7:AG:179:GLU:C	7:AG:181:MET:H	2.25	0.41
7:AG:63:LYS:CG	7:AG:198:VAL:CG1	2.94	0.41
7:AG:60:GLU:CD	7:AG:202:LEU:CB	2.90	0.41
1:AA:401:C:OP1	7:AG:73:ARG:NH1	2.54	0.41
7:AG:94:LEU:HA	7:AG:94:LEU:HD23	1.86	0.41
9:AI:24:GLU:OE2	9:AI:25:ILE:N	2.54	0.41
9:AI:2:ARG:CD	9:AI:69:GLU:HB3	2.48	0.41
10:AJ:146:GLU:CG	10:AJ:149:ARG:NH1	2.84	0.41
10:AJ:35:LYS:HB3	10:AJ:35:LYS:HE2	1.84	0.41
10:AJ:38:LEU:HD12	10:AJ:38:LEU:HA	1.78	0.41
1:AA:932:C:C3'	10:AJ:3:ARG:HG3	2.50	0.41
10:AJ:41:ARG:CG	10:AJ:41:ARG:NH1	2.78	0.41
10:AJ:46:ALA:O	10:AJ:47:CYS:C	2.59	0.41
11:AK:30:ARG:O	11:AK:33:GLU:HB2	2.21	0.41
11:AK:67:PRO:O	11:AK:68:ARG:O	2.39	0.41
11:AK:85:ARG:HA	11:AK:85:ARG:HD2	1.68	0.41
13:AM:19:SER:CA	13:AM:91:PRO:HG3	2.50	0.41
13:AM:60:ARG:H	13:AM:60:ARG:CD	2.27	0.41
13:AM:82:ILE:HG22	13:AM:86:MET:SD	2.61	0.41
13:AM:95:GLU:O	13:AM:95:GLU:HG2	2.21	0.41
1:AA:706:A:H5''	14:AN:22:HIS:HE1	1.85	0.41
15:AO:27:LEU:O	15:AO:28:LYS:C	2.59	0.41
15:AO:34:ARG:CG	15:AO:35:GLY:N	2.84	0.41
16:AP:105:THR:O	16:AP:106:ASN:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:66:LEU:CD2	16:AP:66:LEU:N	2.79	0.41
18:AR:18:PHE:CD1	18:AR:18:PHE:O	2.74	0.41
22:AV:68:GLY:O	22:AV:69:HIS:ND1	2.50	0.41
1:AA:1459:C:C5'	23:AW:27:LYS:HZ3	2.33	0.41
23:AW:43:LEU:HB3	23:AW:52:ALA:HA	2.03	0.41
24:AX:20:LYS:HE2	24:AX:20:LYS:HB3	1.90	0.41
49:B1:49:LYS:O	49:B1:50:ARG:C	2.58	0.41
49:B1:55:LEU:CD1	49:B1:55:LEU:H	2.33	0.41
50:B2:11:SER:O	50:B2:15:TYR:HD2	2.02	0.41
25:BA:1264:G:OP1	52:B4:10:LYS:HE3	2.21	0.41
53:B5:19:ARG:CD	53:B5:19:ARG:N	2.82	0.41
53:B5:20:ASN:ND2	53:B5:42:TRP:H	2.19	0.41
53:B5:46:HIS:CG	53:B5:47:THR:N	2.89	0.41
55:B7:50:LEU:O	55:B7:51:ALA:HB3	2.21	0.41
25:BA:1003:G:O2'	25:BA:1010:A:N1	2.45	0.41
25:BA:1030:G:O3'	38:BP:123:HIS:HE1	2.04	0.41
25:BA:1111:A:O3'	25:BA:1112:G:H4'	2.21	0.41
25:BA:1133:U:C2'	25:BA:1134:G:OP2	2.67	0.41
25:BA:1025:G:H8	25:BA:1134:G:H1'	1.85	0.41
25:BA:1222:C:H2'	25:BA:1223:C:H5'	2.02	0.41
25:BA:1203:G:C6	25:BA:1240:U:C4	2.99	0.41
25:BA:1346:G:H2'	25:BA:1347:G:C8	2.54	0.41
25:BA:1500:G:HO2'	25:BA:1501:C:H5'	1.85	0.41
25:BA:150:C:H2'	25:BA:151:C:O4'	2.21	0.41
25:BA:1541:U:O2	25:BA:1542:G:C6	2.74	0.41
25:BA:1547:C:O2	25:BA:1547:C:C2'	2.68	0.41
25:BA:1639:U:H2'	25:BA:1640:C:C5'	2.38	0.41
25:BA:1650:G:N2	25:BA:1651:G:C1'	2.77	0.41
25:BA:1672:C:C2'	25:BA:1673:U:OP1	2.68	0.41
25:BA:16:G:H2'	25:BA:17:G:C8	2.46	0.41
25:BA:1708:C:O2'	25:BA:1709:U:C5'	2.66	0.41
25:BA:1749:A:C6	25:BA:1750:G:C5	3.09	0.41
25:BA:739:G:H2'	25:BA:1784:A:N1	2.22	0.41
25:BA:181:A:H5'	25:BA:181:A:H8	1.86	0.41
25:BA:1884:A:C3'	25:BA:1884:A:C8	3.04	0.41
25:BA:1919:A:H3'	25:BA:1919:A:OP2	2.21	0.41
25:BA:193:U:H2'	25:BA:194:G:O5'	2.21	0.41
25:BA:1769:G:N2	25:BA:1984:G:C4	2.89	0.41
25:BA:1992:G:C4'	25:BA:1993:U:O4	2.68	0.41
25:BA:2014:A:C2'	25:BA:2015:A:OP2	2.69	0.41
25:BA:2054:A:H62	25:BA:2577:A:N6	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2061:G:O2'	25:BA:2062:A:C5'	2.57	0.41
25:BA:2074:U:C2	25:BA:2436:G:N2	2.89	0.41
25:BA:2116:G:C4'	25:BA:2116:G:OP1	2.69	0.41
25:BA:2125:G:H5'	27:BC:40:THR:CG2	2.43	0.41
25:BA:2134:A:C5	25:BA:2135:A:H2	2.39	0.41
25:BA:2139:C:H2'	25:BA:2140:C:O4'	2.20	0.41
25:BA:2231:C:OP1	51:B3:38:LYS:CD	2.69	0.41
25:BA:2236:C:N4	25:BA:2237:G:C4	2.89	0.41
25:BA:2333:A:C2'	25:BA:2333:A:N3	2.84	0.41
25:BA:2296:U:O2'	25:BA:2335:A:N1	2.42	0.41
25:BA:2351:G:HO2'	25:BA:2366:A:H61	1.63	0.41
25:BA:2379:G:N1	25:BA:2380:C:N3	2.69	0.41
25:BA:2405:G:C2'	25:BA:2406:U:OP2	2.69	0.41
25:BA:2537:U:H2'	25:BA:2538:C:H6	1.81	0.41
25:BA:1953:A:C5	25:BA:2550:G:O4'	2.74	0.41
25:BA:2589:A:C5	25:BA:2590:A:N7	2.89	0.41
25:BA:2645:G:O2'	25:BA:2732:G:O3'	2.39	0.41
25:BA:2694:G:C2'	25:BA:2695:C:H5'	2.51	0.41
25:BA:2704:C:C2'	25:BA:2705:A:O4'	2.69	0.41
25:BA:270(C):C:C4	25:BA:270(D):C:N4	2.88	0.41
25:BA:270(M):U:H4'	25:BA:270(N):G:C5'	2.51	0.41
25:BA:271(A):C:O2	25:BA:271(B):G:C5	2.74	0.41
25:BA:271(C):U:O2	25:BA:271(C):U:H2'	2.21	0.41
25:BA:281:G:C2'	25:BA:282:A:OP2	2.68	0.41
25:BA:2859:G:N1	25:BA:2860:A:N6	2.69	0.41
25:BA:2884:U:O4	52:B4:40:LYS:CE	2.65	0.41
25:BA:399:G:O6	25:BA:400:G:N3	2.54	0.41
25:BA:373:U:C2	25:BA:400:G:N2	2.87	0.41
25:BA:514:A:H2	25:BA:515:A:C4	2.34	0.41
25:BA:566:U:OP2	43:BU:82:ARG:NH1	2.54	0.41
25:BA:779:U:O4	25:BA:780:G:C6	2.74	0.41
25:BA:814:C:H4'	25:BA:1224:G:H22	1.85	0.41
25:BA:860:U:C2	25:BA:2268:A:N3	2.89	0.41
25:BA:879:G:N7	25:BA:899:A:C2	2.89	0.41
25:BA:976:C:C2'	25:BA:977:G:O5'	2.69	0.41
26:BB:105:G:O2'	47:BY:32:HIS:HE1	2.04	0.41
26:BB:24:G:C2	26:BB:27:C:N4	2.89	0.41
27:BC:177:LYS:HB2	27:BC:180:PHE:CG	2.56	0.41
27:BC:87:GLU:CB	27:BC:94:VAL:HG21	2.51	0.41
28:BD:101:GLU:HG2	28:BD:102:LYS:H	1.85	0.41
28:BD:161:THR:H	28:BD:196:VAL:HG21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:228:PRO:HB3	28:BD:234:GLY:C	2.41	0.41
28:BD:27:THR:HG21	28:BD:82:ILE:CG2	2.51	0.41
28:BD:59:LYS:CD	28:BD:59:LYS:C	2.88	0.41
25:BA:2820:A:C5	29:BE:109:LYS:HE2	2.55	0.41
29:BE:175:VAL:O	29:BE:177:PRO:HD3	2.21	0.41
29:BE:171:GLU:N	29:BE:185:LYS:HZ3	2.18	0.41
30:BF:160:ASN:CB	30:BF:163:VAL:HB	2.51	0.41
30:BF:201:VAL:C	30:BF:203:GLN:N	2.73	0.41
30:BF:203:GLN:O	30:BF:204:ASN:C	2.59	0.41
30:BF:5:ALA:CB	30:BF:24:LEU:CD1	2.99	0.41
30:BF:68:LYS:O	30:BF:69:HIS:HB3	2.21	0.41
30:BF:69:HIS:C	30:BF:70:THR:HG1	2.25	0.41
31:BG:10:LYS:HA	31:BG:13:GLU:HB2	2.03	0.41
32:BH:87:LEU:O	32:BH:132:ARG:HB3	2.21	0.41
32:BH:23:ARG:NH2	32:BH:34:GLU:C	2.75	0.41
32:BH:9:ILE:CG1	32:BH:69:ARG:HH12	2.05	0.41
32:BH:77:LYS:O	32:BH:81:GLU:OE1	2.39	0.41
33:BK:24:GLY:HA2	33:BK:27:ARG:HB2	2.02	0.41
35:BM:12:ARG:HG2	35:BM:12:ARG:O	2.20	0.41
35:BM:98:VAL:O	35:BM:99:LEU:C	2.58	0.41
37:BO:74:GLU:O	37:BO:113:LYS:HB3	2.21	0.41
37:BO:122:PRO:CB	37:BO:134:ALA:O	2.69	0.41
37:BO:130:PHE:HB3	37:BO:134:ALA:HB1	2.02	0.41
38:BP:104:PHE:O	38:BP:105:GLU:CG	2.69	0.41
38:BP:22:LYS:NZ	38:BP:23:GLY:C	2.74	0.41
38:BP:35:VAL:HG23	38:BP:101:ARG:C	2.41	0.41
39:BQ:90:ARG:HH22	39:BQ:117:VAL:HG22	1.85	0.41
39:BQ:38:VAL:CB	39:BQ:39:PRO:CD	2.85	0.41
39:BQ:76:VAL:HG12	39:BQ:77:ARG:CG	2.51	0.41
25:BA:1227:A:OP1	42:BT:16:LYS:HE2	2.21	0.41
43:BU:69:LYS:N	43:BU:92:THR:CB	2.80	0.41
44:BV:72:LYS:HB2	44:BV:108:GLY:N	2.36	0.41
45:BW:27:THR:HG22	45:BW:80:ILE:HG21	2.02	0.41
45:BW:89:ILE:O	45:BW:90:GLU:C	2.60	0.41
46:BX:8:LYS:HZ2	46:BX:28:LYS:HG3	1.86	0.41
46:BX:46:LYS:CB	46:BX:57:GLN:HA	2.46	0.41
46:BX:98:VAL:O	46:BX:99:CYS:C	2.59	0.41
47:BY:102:LEU:HD13	47:BY:137:ILE:HB	2.03	0.41
47:BY:109:ALA:HB3	47:BY:142:SER:O	2.18	0.41
47:BY:168:GLU:O	47:BY:168:GLU:OE1	2.39	0.41
47:BY:19:ARG:HH21	47:BY:84:GLU:CA	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BY:19:ARG:O	47:BY:20:ARG:C	2.59	0.41
47:BY:4:ARG:HD3	47:BY:38:TYR:CA	2.51	0.41
47:BY:94:GLU:O	47:BY:96:VAL:HG23	2.20	0.41
33:BK:130:TYR:O	33:BK:132:PRO:CD	2.69	0.41
25:BA:1076:C:OP2	25:BA:1076:C:H6	2.03	0.41
25:BA:1086:A:H2'	25:BA:1087:G:OP1	2.20	0.41
34:BL:111:LYS:O	34:BL:113:PRO:N	2.54	0.41
34:BL:17:ALA:O	34:BL:18:THR:CB	2.69	0.41
34:BL:24:GLY:HA2	34:BL:34:ILE:HG12	2.03	0.41
34:BL:32:ALA:HB1	34:BL:37:PHE:CD1	2.56	0.41
34:BL:77:LEU:HD23	34:BL:77:LEU:HA	1.69	0.41
25:BA:1065:U:N3	25:BA:1066:U:O4'	2.54	0.41
25:BA:1069:A:N7	25:BA:1073:A:N7	2.68	0.41
34:BL:21:PRO:CG	34:BL:22:PRO:CD	2.96	0.41
46:BX:88:LYS:CD	46:BX:89:PHE:N	2.80	0.41
1:AA:1031:G:N1	1:AA:1032:A:C2	2.89	0.41
1:AA:1025:U:O2	1:AA:1026:G:O6	2.39	0.41
1:AA:91:C:H2'	1:AA:92:G:C8	2.48	0.41
1:AA:748:C:H6	1:AA:748:C:C3'	2.27	0.41
14:AN:114:VAL:HG22	14:AN:115:PRO:N	2.35	0.41
1:AA:398:C:C6	1:AA:398:C:C3'	3.04	0.41
1:AA:101:A:O5'	1:AA:101:A:H8	2.04	0.41
1:AA:104:G:N1	1:AA:105:G:C5	2.89	0.41
1:AA:1066:C:C5	1:AA:1067:A:N6	2.89	0.41
1:AA:1130:A:OP2	1:AA:1131:G:OP2	2.39	0.41
1:AA:1242:C:O2'	1:AA:1303:C:H5'	2.21	0.41
1:AA:1304:G:N1	1:AA:1332:A:OP2	2.54	0.41
1:AA:1361:G:C8	1:AA:1362:C:C6	3.09	0.41
1:AA:1381:U:H2'	1:AA:1381:U:O2	2.20	0.41
1:AA:1514:C:O2'	1:AA:1515:C:C5'	2.64	0.41
1:AA:229:U:O3'	19:AS:33:ILE:HD13	2.21	0.41
1:AA:274:A:O2'	1:AA:275:G:C1'	2.69	0.41
1:AA:292:G:H3'	1:AA:293:G:H8	1.86	0.41
1:AA:109:A:C2	1:AA:327:A:C2	3.09	0.41
1:AA:327:A:H2'	1:AA:329:A:H8	1.86	0.41
1:AA:112:G:O2'	1:AA:354:G:O2'	2.30	0.41
1:AA:359:U:O2'	1:AA:360:A:H5'	2.21	0.41
1:AA:426:G:OP1	7:AG:45:GLN:NE2	2.41	0.41
1:AA:5:U:C5	7:AG:86:LYS:HE2	2.56	0.41
1:AA:610:G:C2'	1:AA:611:A:O5'	2.69	0.41
1:AA:628:G:C2	1:AA:629:G:C4	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:684:A:H2	1:AA:706:A:N1	2.19	0.41
1:AA:687:A:C4	1:AA:704:A:N6	2.89	0.41
1:AA:790:A:O5'	1:AA:790:A:C8	2.74	0.41
1:AA:585:G:C2	1:AA:879:C:H4'	2.52	0.41
1:AA:888:G:N2	1:AA:908:A:C6	2.89	0.41
1:AA:961:U:H2'	1:AA:962:C:C5'	2.49	0.41
1:AA:962:C:H2'	1:AA:963:G:C8	2.56	0.41
2:AC:76:A:H62	25:BA:2585:U:H2'	1.86	0.41
3:AD:19:G:C5	3:AD:57:G:N2	2.76	0.41
3:AD:48:C:C4	3:AD:59:U:C2	3.08	0.41
5:AE:93:VAL:CG2	5:AE:101:MET:HE3	2.51	0.41
5:AE:118:LEU:HD22	5:AE:142:LEU:CD1	2.49	0.41
5:AE:12:GLU:C	5:AE:14:GLY:N	2.62	0.41
5:AE:131:PRO:HB2	5:AE:134:GLU:OE2	2.21	0.41
5:AE:15:VAL:HG21	5:AE:210:SER:CA	2.51	0.41
6:AF:134:ILE:HG12	6:AF:153:VAL:HG11	2.03	0.41
6:AF:147:LYS:HB2	6:AF:203:PHE:CD2	2.56	0.41
7:AG:101:LEU:HD23	7:AG:138:TYR:HB3	2.03	0.41
7:AG:187:ARG:NE	7:AG:188:LEU:HG	2.35	0.41
7:AG:200:GLU:HG3	7:AG:201:GLN:HE21	1.86	0.41
7:AG:79:PHE:HA	7:AG:93:PHE:CD1	2.56	0.41
8:AH:121:LYS:HZ3	8:AH:121:LYS:CA	2.34	0.41
9:AI:42:GLU:HG3	9:AI:61:LEU:HD22	2.03	0.41
10:AJ:146:GLU:O	10:AJ:147:ALA:C	2.59	0.41
10:AJ:69:VAL:O	10:AJ:138:LYS:HD2	2.21	0.41
1:AA:1341:U:H4'	12:AL:127:LYS:HA	2.03	0.41
12:AL:27:THR:CG2	12:AL:30:GLY:H	2.34	0.41
12:AL:71:SER:O	12:AL:75:ASP:OD1	2.39	0.41
12:AL:49:PRO:HD3	12:AL:78:LYS:HG2	2.01	0.41
13:AM:30:SER:HB3	13:AM:80:LYS:HG2	1.99	0.41
13:AM:47:PHE:HZ	13:AM:65:LEU:HB2	1.85	0.41
20:AT:18:THR:O	20:AT:19:VAL:CG1	2.63	0.41
20:AT:45:HIS:CD2	20:AT:65:ILE:CD1	3.04	0.41
22:AV:10:PHE:HE2	22:AV:12:ASP:OD1	2.03	0.41
1:AA:1459:C:OP1	23:AW:27:LYS:HD3	2.21	0.41
50:B2:45:GLY:HA2	50:B2:48:GLU:CG	2.50	0.41
50:B2:26:LEU:CD1	50:B2:46:ASN:HB3	2.51	0.41
25:BA:1366:A:C5'	51:B3:1:MET:N	2.83	0.41
25:BA:400:G:N1	51:B3:63:TYR:CE2	2.76	0.41
52:B4:51:TYR:HD1	52:B4:55:ARG:H	1.63	0.41
53:B5:14:THR:HA	53:B5:51:GLU:CA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B5:9:LEU:HD21	53:B5:27:LYS:HZ2	1.86	0.41
54:B6:32:LYS:HA	54:B6:35:ARG:NH1	2.28	0.41
25:BA:1000:A:N1	25:BA:1155:A:N9	2.68	0.41
25:BA:1028:A:C2	25:BA:1029:A:C8	3.09	0.41
25:BA:1112:G:O4'	25:BA:1112:G:P	2.78	0.41
25:BA:1170:G:C2	25:BA:1180:C:N3	2.89	0.41
25:BA:1196:C:C2	25:BA:1197:G:C5	3.09	0.41
25:BA:1264:G:C4'	25:BA:1265:A:H5''	2.50	0.41
25:BA:1342:A:O3'	25:BA:1344:G:OP2	2.39	0.41
25:BA:1365:A:C4	25:BA:1366:A:N7	2.88	0.41
25:BA:1420:U:H3'	25:BA:1420:U:C6	2.56	0.41
25:BA:1492:G:H21	25:BA:1493:C:N4	2.16	0.41
25:BA:154:G:C2	25:BA:155:C:C2	3.08	0.41
25:BA:1498:C:C6	25:BA:1576:U:C1'	3.04	0.41
25:BA:1725:G:N2	25:BA:1726:G:H1'	2.35	0.41
25:BA:1743:G:N7	25:BA:1746:G:N7	2.69	0.41
25:BA:1707:G:C2'	25:BA:1758:G:H22	2.33	0.41
25:BA:1801:G:C8	25:BA:2207:C:O2'	2.74	0.41
25:BA:1892:C:C4	25:BA:1893:C:C5	3.09	0.41
25:BA:1903:G:N1	25:BA:1904:G:C5	2.89	0.41
25:BA:195:A:N7	25:BA:197:A:OP1	2.54	0.41
25:BA:2009:G:N3	39:BQ:106:GLY:O	2.54	0.41
25:BA:2013:A:N7	25:BA:2014:A:N6	2.68	0.41
25:BA:2051:A:C6	25:BA:2614:A:C5	3.09	0.41
25:BA:2069:G:N1	25:BA:2070:G:N7	2.68	0.41
25:BA:2093:G:O2'	25:BA:2094:G:H5'	2.21	0.41
25:BA:216:A:N6	25:BA:432:A:C4	2.89	0.41
25:BA:2226:C:O2	25:BA:2227:A:C4	2.74	0.41
25:BA:223:A:N9	25:BA:422:A:C8	2.89	0.41
25:BA:2289:G:N7	25:BA:2289:G:OP2	2.54	0.41
25:BA:2312:U:O4'	31:BG:43:LEU:CD2	2.50	0.41
25:BA:2346:A:H1'	25:BA:2383:G:N7	2.35	0.41
25:BA:2289:G:C5'	25:BA:2384:G:O2'	2.69	0.41
25:BA:2416:C:O5'	25:BA:2416:C:H6	2.04	0.41
25:BA:2450:A:H2'	25:BA:2450:A:N3	2.36	0.41
25:BA:2499:C:O2	25:BA:2499:C:H2'	2.20	0.41
25:BA:2573:C:OP1	25:BA:2574:G:C5'	2.39	0.41
25:BA:2578:G:N7	29:BE:140:SER:CB	2.83	0.41
25:BA:2657:A:N1	25:BA:2665:A:C5	2.89	0.41
25:BA:2694:G:C5	25:BA:2695:C:C5	3.09	0.41
25:BA:2749:A:H8	25:BA:2749:A:OP2	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:317:G:C2'	25:BA:318:C:H5'	2.49	0.41
25:BA:298:G:H1	25:BA:338:G:HO2'	1.54	0.41
25:BA:390:A:OP2	25:BA:390:A:C8	2.74	0.41
25:BA:40:C:C2	25:BA:41:C:C5	3.09	0.41
25:BA:479:A:C4	25:BA:480:A:N7	2.88	0.41
25:BA:498:G:C3'	25:BA:498:G:C8	3.04	0.41
25:BA:502:A:H3'	25:BA:502:A:H8	1.86	0.41
25:BA:617:G:P	25:BA:617:G:O4'	2.79	0.41
25:BA:674:G:C1'	30:BF:74:ARG:NH2	2.84	0.41
25:BA:691:C:C2	25:BA:692:C:C6	3.09	0.41
25:BA:740:U:O4	25:BA:758:C:C2	2.72	0.41
25:BA:740:U:C6	25:BA:741:G:C8	3.09	0.41
25:BA:791:C:C2	25:BA:794:G:O4'	2.74	0.41
25:BA:801:G:N7	30:BF:54:ARG:CG	2.84	0.41
25:BA:674:G:N1	25:BA:804:A:H2'	2.35	0.41
25:BA:915:C:H2'	25:BA:916:G:C5'	2.50	0.41
25:BA:962:G:C4	25:BA:963:U:C5	3.08	0.41
26:BB:73:A:O2'	26:BB:74:U:O4'	2.34	0.41
27:BC:124:GLY:CA	27:BC:137:LEU:HD21	2.25	0.41
27:BC:139:ASN:HA	27:BC:140:PRO:HD2	1.96	0.41
27:BC:150:GLY:O	27:BC:154:ARG:CB	2.69	0.41
27:BC:196:LEU:O	27:BC:198:ALA:N	2.53	0.41
27:BC:46:LYS:C	27:BC:46:LYS:HD3	2.41	0.41
28:BD:181:GLU:HA	28:BD:181:GLU:OE1	2.21	0.41
28:BD:225:ALA:O	28:BD:231:HIS:CD2	2.74	0.41
29:BE:116:VAL:C	29:BE:120:TRP:CD1	2.94	0.41
25:BA:1657:C:H5''	29:BE:133:LYS:C	2.41	0.41
29:BE:14:ILE:HD11	41:BS:14:TYR:CB	2.39	0.41
29:BE:105:THR:HB	29:BE:166:THR:HA	2.02	0.41
29:BE:201:THR:C	29:BE:202:LYS:HD3	2.41	0.41
29:BE:4:ILE:O	29:BE:27:LEU:CG	2.69	0.41
29:BE:47:VAL:CA	29:BE:48:GLN:NE2	2.84	0.41
29:BE:4:ILE:HG23	29:BE:27:LEU:HD13	1.98	0.41
29:BE:74:PRO:O	29:BE:75:VAL:HG22	2.21	0.41
29:BE:29:GLY:CA	29:BE:91:VAL:HA	2.51	0.41
30:BF:135:LYS:HD3	30:BF:137:LYS:N	2.35	0.41
30:BF:194:MET:CE	30:BF:197:ASP:HB3	2.47	0.41
25:BA:2306:C:C2	31:BG:46:ALA:HB2	2.46	0.41
31:BG:56:ALA:O	31:BG:60:LEU:CD2	2.69	0.41
31:BG:90:LEU:C	31:BG:90:LEU:HD13	2.41	0.41
32:BH:23:ARG:HH12	32:BH:36:PRO:HB3	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:85:LYS:O	32:BH:132:ARG:HB2	2.21	0.41
35:BM:13:TRP:CD1	35:BM:51:PHE:CB	3.04	0.41
35:BM:74:ARG:C	35:BM:76:SER:OG	2.59	0.41
36:BN:122:LEU:CG	41:BS:71:GLY:CA	2.91	0.41
36:BN:21:CYS:HA	36:BN:41:ALA:HB1	1.90	0.41
36:BN:7:TYR:HA	36:BN:18:LYS:CD	2.46	0.41
37:BO:17:LYS:NZ	37:BO:17:LYS:CB	2.77	0.41
37:BO:33:ARG:H	37:BO:35:HIS:CE1	2.38	0.41
37:BO:84:ASN:HA	37:BO:84:ASN:HD22	1.66	0.41
38:BP:66:ILE:O	38:BP:105:GLU:CD	2.58	0.41
38:BP:61:GLY:C	47:BY:177:PRO:CA	2.90	0.41
38:BP:65:PHE:O	38:BP:66:ILE:HD12	2.21	0.41
38:BP:68:ILE:HG12	38:BP:97:VAL:HG13	2.03	0.41
38:BP:76:LYS:NZ	38:BP:78:PRO:C	2.74	0.41
38:BP:43:THR:CA	38:BP:94:VAL:HB	2.51	0.41
39:BQ:13:HIS:HD2	39:BQ:16:HIS:CG	2.38	0.41
39:BQ:13:HIS:O	39:BQ:17:ARG:HB3	2.21	0.41
39:BQ:20:LEU:HA	39:BQ:20:LEU:HD22	1.76	0.41
39:BQ:57:ARG:NH2	39:BQ:61:HIS:HB3	2.36	0.41
25:BA:1453:A:N6	39:BQ:77:ARG:HD2	2.35	0.41
40:BR:101:LEU:CD1	40:BR:101:LEU:O	2.69	0.41
40:BR:33:LYS:CG	40:BR:54:LEU:CD2	2.94	0.41
41:BS:57:PHE:O	41:BS:58:ASN:CB	2.68	0.41
41:BS:68:TYR:CE1	41:BS:70:VAL:HA	2.56	0.41
42:BT:82:GLY:CA	42:BT:117:GLN:NE2	2.84	0.41
42:BT:49:HIS:CA	42:BT:52:ARG:NE	2.81	0.41
43:BU:18:LEU:HA	43:BU:97:LYS:HA	2.02	0.41
46:BX:23:ARG:HD2	46:BX:39:VAL:CG2	2.44	0.41
46:BX:35:TYR:O	46:BX:64:GLU:O	2.39	0.41
46:BX:83:THR:HG22	46:BX:84:ARG:CD	2.31	0.41
34:BL:117:THR:O	34:BL:118:THR:CB	2.68	0.41
6:AF:122:GLU:CA	6:AF:125:GLU:HG2	2.46	0.41
25:BA:2185:C:C4	25:BA:2186:G:N7	2.89	0.41
22:AV:49:ILE:O	22:AV:49:ILE:HG13	2.21	0.41
1:AA:1066:C:O2'	1:AA:1387:G:H5'	2.22	0.40
1:AA:1124:G:C2'	1:AA:1125:U:OP2	2.70	0.40
1:AA:1181:G:O3'	1:AA:1184:G:C5'	2.68	0.40
1:AA:1196:U:H6	1:AA:1196:U:C3'	2.22	0.40
1:AA:1245:A:N1	1:AA:1293:G:C6	2.89	0.40
1:AA:1257:U:O2'	1:AA:1258:G:P	2.79	0.40
1:AA:1296:C:C1'	1:AA:1302:U:O4	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1368:G:C2	1:AA:1369:C:C2	3.09	0.40
1:AA:1399:C:O2	1:AA:1401:G:C8	2.74	0.40
1:AA:1412:C:C2	1:AA:1413:A:C8	3.09	0.40
1:AA:1433:A:H2'	1:AA:1434:A:C5'	2.51	0.40
1:AA:1438:G:C6	1:AA:1464:G:C2	3.09	0.40
1:AA:926:G:C2'	1:AA:1505:G:H21	2.22	0.40
1:AA:1520:G:O2'	1:AA:1521:G:O5'	2.39	0.40
1:AA:160:A:N7	1:AA:161:A:N7	2.69	0.40
1:AA:167:G:H2'	1:AA:168:G:H8	1.84	0.40
1:AA:191(F):U:H6	1:AA:191(F):U:O5'	2.03	0.40
1:AA:20:U:C4	1:AA:21:G:C2	3.09	0.40
1:AA:254:G:O2'	1:AA:255:G:H5'	2.21	0.40
1:AA:258:G:C6	1:AA:259:G:C6	3.08	0.40
1:AA:267:C:P	20:AT:67:LYS:HD3	2.61	0.40
1:AA:272:C:N3	1:AA:273:A:N7	2.69	0.40
1:AA:277:C:OP2	20:AT:41:LYS:CD	2.70	0.40
1:AA:296:U:O2'	1:AA:297:G:H5'	2.21	0.40
1:AA:331:G:O5'	1:AA:331:G:H8	2.04	0.40
1:AA:382:A:O2'	1:AA:383:A:H5'	2.21	0.40
1:AA:452:A:OP1	19:AS:43:LYS:NZ	2.48	0.40
1:AA:476:G:C2	1:AA:477:G:C8	3.10	0.40
1:AA:534:U:C5'	1:AA:535:A:OP2	2.69	0.40
1:AA:568:G:N1	1:AA:569:C:C4	2.90	0.40
1:AA:581:G:H2'	1:AA:582:U:OP2	2.21	0.40
1:AA:622:A:HO2'	1:AA:623:C:P	2.44	0.40
1:AA:623:C:H2'	1:AA:624:C:C6	2.53	0.40
1:AA:715:A:O5'	1:AA:715:A:H8	2.04	0.40
1:AA:745:C:H4'	1:AA:836:G:C2	2.55	0.40
1:AA:766:A:C4	1:AA:814:A:C2	3.09	0.40
1:AA:907:A:N6	1:AA:908:A:N6	2.69	0.40
1:AA:966:G:H2'	1:AA:967:C:C6	2.56	0.40
3:AD:23:A:O5'	3:AD:23:A:H8	2.04	0.40
5:AE:139:LYS:O	5:AE:143:GLU:CB	2.67	0.40
5:AE:217:ARG:HB3	5:AE:217:ARG:NH1	2.36	0.40
6:AF:22:TRP:HE3	6:AF:23:TYR:O	2.04	0.40
7:AG:165:MET:CG	7:AG:166:LYS:N	2.83	0.40
7:AG:24:GLU:OE2	7:AG:25:ARG:HB2	2.21	0.40
8:AH:103:GLY:C	8:AH:106:PRO:HD2	2.41	0.40
1:AA:9:G:OP2	8:AH:121:LYS:HA	2.21	0.40
8:AH:140:ARG:O	8:AH:141:GLN:C	2.59	0.40
8:AH:81:GLU:CB	8:AH:90:VAL:CG2	2.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:3:ARG:CD	9:AI:38:GLU:OE1	2.69	0.40
9:AI:44:GLY:HA2	9:AI:59:TYR:HE1	1.86	0.40
9:AI:68:PRO:O	9:AI:71:ARG:HG2	2.21	0.40
10:AJ:71:PRO:CA	10:AJ:138:LYS:HE3	2.49	0.40
10:AJ:35:LYS:HE3	10:AJ:37:ASN:HD21	1.86	0.40
10:AJ:54:THR:O	10:AJ:56:GLN:HG2	2.21	0.40
10:AJ:77:SER:C	10:AJ:156:TRP:CH2	2.95	0.40
10:AJ:83:ALA:CB	10:AJ:85:TYR:CE2	2.99	0.40
11:AK:68:ARG:HG2	11:AK:74:PRO:HB2	2.02	0.40
11:AK:14:ARG:NH1	11:AK:83:ILE:HG23	2.36	0.40
12:AL:14:VAL:O	12:AL:65:VAL:HA	2.21	0.40
13:AM:5:ARG:CG	13:AM:5:ARG:NH1	2.84	0.40
13:AM:61:GLU:HG3	13:AM:62:HIS:N	2.35	0.40
16:AP:59:TYR:CG	16:AP:60:VAL:N	2.87	0.40
16:AP:29:ARG:CD	16:AP:64:TRP:NE1	2.84	0.40
16:AP:77:ASN:HA	16:AP:80:ARG:HG2	2.02	0.40
17:AQ:34:TYR:CZ	17:AQ:44:LEU:HD13	2.55	0.40
18:AR:18:PHE:CE1	18:AR:21:ASP:CA	3.04	0.40
19:AS:8:ARG:HG2	19:AS:17:TYR:CZ	2.56	0.40
19:AS:58:TYR:CD1	19:AS:59:TRP:N	2.89	0.40
20:AT:60:ILE:HG23	20:AT:60:ILE:O	2.21	0.40
1:AA:191:G:O2'	23:AW:102:GLY:O	2.37	0.40
23:AW:42:GLN:O	23:AW:45:GLN:N	2.53	0.40
23:AW:48:LYS:O	23:AW:49:ALA:C	2.60	0.40
49:B1:27:LEU:HD21	49:B1:48:LEU:CB	2.43	0.40
49:B1:29:GLU:O	49:B1:30:LEU:C	2.60	0.40
50:B2:28:LEU:O	50:B2:29:ARG:CB	2.69	0.40
51:B3:5:ILE:CD1	51:B3:10:VAL:N	2.84	0.40
25:BA:126:A:OP1	54:B6:18:PHE:CD1	2.75	0.40
25:BA:1613:G:N9	54:B6:3:ARG:CZ	2.85	0.40
55:B7:60:LEU:O	55:B7:61:LEU:C	2.59	0.40
56:B8:9:ARG:CD	56:B8:14:CYS:O	2.49	0.40
25:BA:1009:A:H5''	25:BA:1010:A:P	2.61	0.40
25:BA:1107:G:H2'	25:BA:1108:U:H5'	2.01	0.40
25:BA:1168:G:C6	25:BA:1169:G:C5	3.08	0.40
25:BA:1176:G:H5''	25:BA:1177:A:N7	2.36	0.40
25:BA:1181:C:N3	25:BA:1182:A:C5	2.89	0.40
25:BA:1221:C:C2	25:BA:1229:G:N2	2.89	0.40
25:BA:1233:C:O2	25:BA:1233:C:C2'	2.68	0.40
25:BA:1302:A:H5'	25:BA:1608:A:OP1	2.21	0.40
25:BA:1327:C:C3'	25:BA:1328:G:H8	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:134:C:C2'	25:BA:135:G:C5'	2.92	0.40
25:BA:1368:G:C2'	25:BA:1369:G:H5'	2.52	0.40
25:BA:1389:G:O2'	25:BA:1390:U:H5'	2.20	0.40
25:BA:1399:C:O2'	25:BA:1400:G:C5'	2.69	0.40
25:BA:1418:G:H21	25:BA:1580:A:H2	1.66	0.40
25:BA:1459:G:O6	25:BA:1461:G:C6	2.74	0.40
25:BA:1448:G:C6	25:BA:1464:C:C4	3.09	0.40
25:BA:1519:G:C5	25:BA:1520:U:O2	2.74	0.40
25:BA:1566:A:HO2'	25:BA:1567:A:P	2.43	0.40
25:BA:1593:G:C4	25:BA:1594:G:C8	3.09	0.40
25:BA:1603:A:C6	25:BA:1604:C:C4	3.10	0.40
25:BA:1612:C:H1'	54:B6:6:GLN:NE2	2.31	0.40
25:BA:1698:A:O2'	25:BA:1699:G:C5'	2.69	0.40
25:BA:1731:G:N3	25:BA:1731:G:H2'	2.35	0.40
25:BA:1775:U:C4	25:BA:1776:G:N9	2.89	0.40
25:BA:1786:A:C8	25:BA:1786:A:H3'	2.55	0.40
25:BA:1793:C:H2'	25:BA:1794:U:C6	2.56	0.40
25:BA:1790:C:C5'	25:BA:1828:G:H1	2.34	0.40
25:BA:1870:C:N4	25:BA:1871:A:C2	2.89	0.40
25:BA:1934:C:C2'	25:BA:1934:C:O2	2.69	0.40
25:BA:1955:U:H2'	25:BA:1956:U:OP1	2.21	0.40
25:BA:2024:G:O2'	25:BA:2025:C:C5'	2.66	0.40
25:BA:2056:G:N3	25:BA:2057:A:C8	2.89	0.40
25:BA:2121:G:C3'	25:BA:2122:U:H6	2.34	0.40
25:BA:2124:G:H1'	27:BC:217:THR:HA	2.03	0.40
25:BA:2132:U:C6	25:BA:2132:U:P	3.15	0.40
25:BA:2252:G:C6	25:BA:2253:G:O6	2.75	0.40
25:BA:2289:G:C2	25:BA:2290:G:C8	3.09	0.40
25:BA:2304:G:C2	31:BG:156:ASP:OD1	2.74	0.40
25:BA:2304:G:H1'	31:BG:132:ASN:OD1	2.21	0.40
25:BA:2314:C:O2'	25:BA:2315:G:C5'	2.67	0.40
25:BA:2321:G:H2'	25:BA:2322:A:OP1	2.20	0.40
25:BA:2334:G:H2'	25:BA:2335:A:OP1	2.21	0.40
25:BA:23:G:C2'	25:BA:24:G:O5'	2.69	0.40
25:BA:2570:G:C2	25:BA:2571:C:N3	2.89	0.40
25:BA:2605:U:O2'	25:BA:2606:C:C5'	2.69	0.40
25:BA:2652:C:C4	25:BA:2653:U:C4	3.09	0.40
25:BA:2675:A:HO2'	25:BA:2676:C:H5'	1.81	0.40
25:BA:1050:A:N3	25:BA:2752:C:C5	2.88	0.40
25:BA:2825:C:O5'	25:BA:2825:C:H6	2.04	0.40
25:BA:298:G:P	25:BA:298:G:C8	3.14	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:333:G:N1	25:BA:334:C:C4	2.89	0.40
25:BA:270(A):A:C8	25:BA:370:G:H8	2.39	0.40
25:BA:387:U:H5''	25:BA:388:G:OP1	2.20	0.40
25:BA:390:A:N3	25:BA:390:A:C2'	2.83	0.40
25:BA:404:C:H5'	25:BA:406:G:O4'	2.21	0.40
25:BA:447:A:C2	25:BA:473:G:C8	3.09	0.40
25:BA:503:A:C2	25:BA:506:G:C4	3.09	0.40
25:BA:28:A:C1'	25:BA:513:A:C6	3.05	0.40
25:BA:519:U:C6	25:BA:519:U:H5'	2.37	0.40
25:BA:539:G:O5'	25:BA:539:G:H8	2.04	0.40
25:BA:572:A:H2	25:BA:2033:A:C2	2.39	0.40
25:BA:593:G:OP1	55:B7:62:LEU:HD21	2.21	0.40
25:BA:623:G:O5'	37:BO:105:LEU:HD11	2.21	0.40
25:BA:662:G:OP1	37:BO:16:ARG:CG	2.69	0.40
25:BA:715:G:H2'	25:BA:716:A:C5'	2.51	0.40
25:BA:760:G:H2'	25:BA:761:A:H8	1.86	0.40
25:BA:784:A:C4'	28:BD:227:ASN:OD1	2.69	0.40
25:BA:90:U:H1'	25:BA:91:A:C8	2.56	0.40
25:BA:90:U:H6	25:BA:90:U:C3'	2.31	0.40
25:BA:918:A:H1'	26:BB:80:U:H1'	2.03	0.40
25:BA:974:G:OP2	25:BA:974(A):C:C5'	2.69	0.40
26:BB:16:G:C5	26:BB:17:C:C5	3.09	0.40
27:BC:171:ILE:HD13	27:BC:196:LEU:HD11	2.03	0.40
27:BC:5:LYS:HB3	27:BC:7:TYR:HB3	2.03	0.40
27:BC:63:SER:O	27:BC:65:PRO:N	2.55	0.40
27:BC:81:GLU:O	27:BC:84:LYS:HB2	2.21	0.40
28:BD:108:PRO:HA	28:BD:195:ALA:O	2.21	0.40
28:BD:146:GLU:CG	28:BD:154:LYS:H	2.33	0.40
28:BD:136:ILE:HG21	28:BD:165:ILE:HG12	2.01	0.40
28:BD:181:GLU:OE2	28:BD:270:ILE:HG22	2.20	0.40
28:BD:61:LEU:CD1	28:BD:63:ARG:NH2	2.84	0.40
28:BD:29:PRO:CB	28:BD:82:ILE:C	2.90	0.40
28:BD:77:ALA:CB	28:BD:96:HIS:O	2.53	0.40
29:BE:111:ARG:HB2	29:BE:161:GLY:HA3	1.96	0.40
29:BE:173:VAL:HG22	29:BE:183:LEU:C	2.34	0.40
29:BE:40:GLU:CB	29:BE:41:LYS:HE3	2.52	0.40
30:BF:176:LEU:C	30:BF:178:PRO:CD	2.90	0.40
31:BG:110:ALA:HB1	31:BG:139:LEU:CG	2.49	0.40
31:BG:118:ARG:O	31:BG:119:GLY:C	2.60	0.40
31:BG:141:PHE:HE2	31:BG:145:THR:CB	2.31	0.40
31:BG:79:ASN:CG	31:BG:82:LEU:HD21	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:139:GLN:HG2	32:BH:140:LYS:N	2.34	0.40
35:BM:4:TYR:CB	42:BT:64:ARG:HH12	2.34	0.40
35:BM:86:PRO:N	35:BM:89:LYS:HD2	2.36	0.40
36:BN:103:ALA:HA	36:BN:106:LEU:CG	2.51	0.40
36:BN:87:ILE:CD1	36:BN:93:PRO:HB3	2.51	0.40
37:BO:80:TYR:O	37:BO:85:LEU:HD12	2.21	0.40
37:BO:86:LYS:HZ1	37:BO:99:LEU:HD11	1.86	0.40
38:BP:122:GLY:O	38:BP:125:LEU:N	2.54	0.40
39:BQ:102:GLU:OE1	39:BQ:103:ARG:CG	2.61	0.40
40:BR:8:GLU:O	40:BR:10:ARG:N	2.53	0.40
42:BT:42:ALA:O	42:BT:45:TYR:CB	2.68	0.40
43:BU:78:LYS:HD2	43:BU:79:VAL:C	2.41	0.40
44:BV:15:ARG:C	44:BV:18:ARG:HB2	2.41	0.40
45:BW:17:ALA:CB	45:BW:21:PHE:CZ	3.04	0.40
45:BW:31:HIS:HD2	45:BW:32:PRO:N	2.19	0.40
46:BX:60:PHE:HD2	46:BX:61:ILE:N	2.19	0.40
47:BY:139:VAL:O	47:BY:140:ASP:OD1	2.39	0.40
47:BY:121:HIS:CB	47:BY:171:ILE:O	2.51	0.40
47:BY:46:LYS:HG3	47:BY:46:LYS:H	1.78	0.40
48:BZ:9:SER:O	48:BZ:10:THR:O	2.39	0.40
48:BZ:19:LYS:HB2	48:BZ:19:LYS:HE3	1.82	0.40
48:BZ:27:GLU:HA	48:BZ:69:PHE:HD1	1.85	0.40
25:BA:1103:A:C2'	25:BA:1104:C:OP1	2.69	0.40
34:BL:9:LYS:HE2	34:BL:56:GLU:OE2	2.20	0.40
1:AA:1121:U:C2	1:AA:1122:U:C5	3.10	0.40
1:AA:1002:G:N1	1:AA:1003:G:C6	2.89	0.40
1:AA:848:C:C2	1:AA:849:C:C5	3.09	0.40
1:AA:93:U:C2	1:AA:95:G:N7	2.89	0.40
1:AA:209:U:C5'	1:AA:210:U:OP1	2.62	0.40
25:BA:1034:G:C4	25:BA:1122:G:C2	3.09	0.40
1:AA:1046:A:H3'	1:AA:1047:G:C8	2.55	0.40
1:AA:1140:C:C4	1:AA:1141:C:C5	3.09	0.40
1:AA:1161:C:N3	1:AA:1162:C:C5	2.89	0.40
1:AA:118:U:C6	1:AA:288:A:N1	2.88	0.40
1:AA:1197:G:P	1:AA:1197:G:H3'	2.61	0.40
1:AA:1222:G:N3	1:AA:1223:C:C2	2.89	0.40
1:AA:1222:G:OP2	1:AA:1322:C:C5	2.74	0.40
1:AA:1239:A:H1'	1:AA:1241:G:C4	2.57	0.40
1:AA:1245:A:C6	1:AA:1293:G:N1	2.90	0.40
1:AA:1301:U:C4	1:AA:1303:C:H1'	2.56	0.40
1:AA:1306:A:O2'	1:AA:1307:U:H5'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1335:C:H5''	1:AA:1336:C:H5'	2.03	0.40
1:AA:1475:G:C2	1:AA:1476:G:N9	2.89	0.40
1:AA:928:G:O2'	1:AA:1533:C:O4'	2.37	0.40
1:AA:153:C:N4	1:AA:154:C:N4	2.69	0.40
1:AA:158:G:C2	1:AA:164:U:O2	2.74	0.40
1:AA:335:C:C4'	1:AA:1434:A:H4'	2.51	0.40
1:AA:342:C:N3	1:AA:348:G:C2	2.89	0.40
1:AA:38:G:C4	1:AA:397:A:H2	2.39	0.40
1:AA:497:U:C2'	1:AA:498:A:O5'	2.69	0.40
1:AA:601:C:C2	1:AA:638:G:C2	3.09	0.40
1:AA:719:C:OP2	1:AA:720:C:N4	2.45	0.40
1:AA:728:A:OP1	1:AA:742:G:O2'	2.40	0.40
1:AA:753:A:H4'	1:AA:754:C:H5''	2.03	0.40
1:AA:888:G:N2	1:AA:909:A:N6	2.48	0.40
1:AA:909:A:C5	1:AA:910:C:C6	3.09	0.40
1:AA:928:G:O2'	1:AA:1533:C:H4'	2.22	0.40
2:AC:58:A:N7	2:AC:61:C:C4	2.89	0.40
2:AC:69:C:C2	2:AC:70:G:H8	2.35	0.40
2:AC:74:C:N4	48:BZ:4:LYS:CE	2.83	0.40
3:AD:75:C:C5'	3:AD:76:A:H4'	2.51	0.40
5:AE:109:SER:O	5:AE:110:GLN:C	2.59	0.40
5:AE:169:LYS:C	5:AE:171:ALA:N	2.74	0.40
5:AE:84:GLU:OE2	5:AE:219:VAL:HB	2.21	0.40
5:AE:220:ASP:HA	5:AE:223:ILE:HB	2.02	0.40
6:AF:190:ARG:HB3	6:AF:190:ARG:CZ	2.51	0.40
6:AF:59:ARG:HG3	6:AF:61:ALA:O	2.21	0.40
7:AG:88:VAL:O	7:AG:89:THR:C	2.60	0.40
8:AH:41:VAL:CG2	8:AH:113:ALA:HA	2.51	0.40
8:AH:71:LEU:HD23	8:AH:72:GLN:CA	2.49	0.40
10:AJ:155:ARG:NH1	10:AJ:156:TRP:HB2	2.36	0.40
11:AK:107:LEU:N	11:AK:107:LEU:HD23	2.15	0.40
11:AK:121:ASP:OD2	11:AK:122:ARG:N	2.51	0.40
11:AK:67:PRO:HD2	11:AK:77:GLU:N	2.07	0.40
14:AN:27:ASN:ND2	14:AN:55:LYS:NZ	2.70	0.40
14:AN:25:TYR:HD1	14:AN:89:ALA:HB2	1.86	0.40
14:AN:95:ILE:HA	14:AN:98:LEU:CG	2.52	0.40
14:AN:96:ARG:O	14:AN:97:ALA:C	2.58	0.40
16:AP:13:LYS:HB3	16:AP:17:VAL:HB	2.02	0.40
6:AF:18:TRP:CH2	17:AQ:57:ARG:HB2	2.57	0.40
13:AM:46:ARG:NH1	17:AQ:61:TRP:CE3	2.90	0.40
18:AR:43:LEU:HA	18:AR:43:LEU:HD23	1.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:764:C:H4'	18:AR:50:HIS:HB3	2.03	0.40
18:AR:77:ARG:HH22	18:AR:81:LEU:HD12	1.85	0.40
1:AA:761:G:H4'	20:AT:103:GLY:H	1.86	0.40
20:AT:46:ASP:OD2	20:AT:46:ASP:O	2.39	0.40
1:AA:1014:A:H4'	22:AV:14:HIS:CE1	2.56	0.40
22:AV:15:LEU:HD22	22:AV:38:SER:HB3	2.02	0.40
1:AA:986:A:C4'	22:AV:55:LYS:HD2	2.50	0.40
22:AV:69:HIS:CD2	22:AV:74:PHE:CZ	3.09	0.40
25:BA:95:G:O2'	49:B1:42:ASN:HB2	2.21	0.40
51:B3:39:CYS:C	51:B3:40:HIS:ND1	2.70	0.40
53:B5:15:GLU:CB	53:B5:53:LYS:CB	2.99	0.40
25:BA:1314:C:N3	25:BA:1315:C:C5	2.88	0.40
25:BA:1326:U:C3'	25:BA:1327:C:H5'	2.42	0.40
25:BA:1340:U:C3'	25:BA:1340:U:C6	3.03	0.40
25:BA:1372:U:C4	25:BA:1373:A:C5	3.10	0.40
25:BA:1343:G:C2	25:BA:1405:U:C2	3.09	0.40
25:BA:146:G:N7	25:BA:147:U:C5	2.89	0.40
25:BA:1500:G:N1	25:BA:1501:C:C4	2.89	0.40
25:BA:1503:U:N3	25:BA:1504:C:N4	2.69	0.40
25:BA:1428:C:C6	25:BA:1569:A:OP1	2.74	0.40
25:BA:1608:A:N7	25:BA:1611:C:C4	2.89	0.40
25:BA:1717:G:N7	25:BA:1743:G:N1	2.70	0.40
25:BA:1743:G:OP1	25:BA:1746:G:P	2.79	0.40
25:BA:1767:C:C2	25:BA:1768:U:C6	3.09	0.40
25:BA:1782:C:O2	25:BA:2609:U:C6	2.72	0.40
25:BA:1840:G:H2'	25:BA:1841:U:H5'	2.03	0.40
25:BA:1995:U:H5'	25:BA:1996:C:O5'	2.21	0.40
25:BA:2000:G:C2	25:BA:2001:A:C8	3.10	0.40
25:BA:200:U:O2'	51:B3:31:ILE:CG1	2.69	0.40
25:BA:2011:U:H2'	25:BA:2012:G:C1'	2.51	0.40
25:BA:2011:U:C2'	25:BA:2012:G:O4'	2.62	0.40
25:BA:2044:C:C2	25:BA:2625:G:N3	2.89	0.40
25:BA:2190:G:C2	25:BA:2191:G:N7	2.89	0.40
25:BA:2349:G:C5	25:BA:2350:C:C6	3.10	0.40
25:BA:2377:A:C4	25:BA:2378:A:N7	2.90	0.40
25:BA:2380:C:N4	25:BA:2381:C:N4	2.69	0.40
25:BA:2453:A:H2	25:BA:2504:U:N3	2.19	0.40
25:BA:2457:U:N3	25:BA:2458:G:N2	2.69	0.40
25:BA:1131:G:OP2	25:BA:2515:C:H4'	2.21	0.40
25:BA:2526:G:C6	25:BA:2527:C:C5	3.09	0.40
25:BA:2594:C:H41	28:BD:239:ARG:NH1	2.18	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2597:G:C1'	28:BD:242:ARG:NH2	2.85	0.40
25:BA:2634:G:O2'	25:BA:2635:C:O5'	2.40	0.40
25:BA:2695:C:C2	25:BA:2696:U:C5	3.09	0.40
25:BA:2712(A):A:H5''	25:BA:2713:A:H5''	2.04	0.40
25:BA:2779:U:C5'	25:BA:2780:G:H3'	2.52	0.40
25:BA:2784:C:H2'	25:BA:2785:C:H6	1.86	0.40
25:BA:2824:C:C4	25:BA:2825:C:C1'	3.05	0.40
25:BA:2848:G:O4'	41:BS:99:LEU:HD11	2.21	0.40
25:BA:2860:A:H8	25:BA:2860:A:OP2	2.04	0.40
25:BA:2857:G:C6	25:BA:2861:G:C6	3.09	0.40
25:BA:2877:G:C2	25:BA:2878:U:C2	3.09	0.40
25:BA:298:G:O6	25:BA:338:G:O4'	2.39	0.40
25:BA:308:G:N2	25:BA:329:G:H2'	2.35	0.40
25:BA:360:G:H8	25:BA:360:G:P	2.44	0.40
25:BA:385:C:O2'	25:BA:390:A:N1	2.50	0.40
25:BA:447:A:C6	25:BA:473:G:C4	3.09	0.40
25:BA:493:G:H2'	25:BA:494:G:C8	2.50	0.40
25:BA:519:U:C6	25:BA:519:U:C3'	3.04	0.40
25:BA:531:C:O2	42:BT:28:ARG:NE	2.53	0.40
25:BA:548:A:H3'	25:BA:549:G:O4'	2.21	0.40
25:BA:574:C:H41	25:BA:2054:A:C4'	2.29	0.40
25:BA:614:U:C5'	25:BA:615:G:OP2	2.59	0.40
25:BA:66:C:C2'	25:BA:67:U:O5'	2.68	0.40
25:BA:711:G:C2	25:BA:712:G:N9	2.88	0.40
25:BA:731:C:C2'	25:BA:732:C:O5'	2.69	0.40
25:BA:733:G:C5'	25:BA:733:G:C8	3.04	0.40
25:BA:700:G:C6	25:BA:733:G:N2	2.89	0.40
25:BA:858:U:O3'	25:BA:859:G:O4'	2.39	0.40
25:BA:870:A:C6	25:BA:908:C:C4	3.09	0.40
25:BA:933:A:H2'	25:BA:934:G:H5'	2.03	0.40
25:BA:959:A:C4	25:BA:960:A:N7	2.89	0.40
25:BA:981:A:H1'	25:BA:2037:G:C1'	2.52	0.40
25:BA:85:G:C6	25:BA:98:G:C6	3.09	0.40
26:BB:66:A:C2	26:BB:108:C:C6	3.09	0.40
26:BB:73:A:N3	26:BB:74:U:C6	2.88	0.40
27:BC:116:THR:HG21	27:BC:149:ILE:HB	1.98	0.40
28:BD:224:ALA:O	28:BD:226:MET:N	2.54	0.40
25:BA:782:A:O2'	28:BD:225:ALA:HB1	2.21	0.40
28:BD:63:ARG:NH1	28:BD:85:ASP:CB	2.76	0.40
29:BE:101:ARG:HH21	29:BE:101:ARG:HG2	1.86	0.40
29:BE:121:ASN:HD22	29:BE:121:ASN:HA	1.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:197:ILE:CG2	29:BE:198:VAL:H	2.30	0.40
25:BA:2671:A:OP2	29:BE:206:LYS:CE	2.69	0.40
29:BE:45:THR:HG23	29:BE:46:ALA:N	2.36	0.40
29:BE:60:ASN:O	29:BE:63:LEU:N	2.54	0.40
30:BF:40:GLN:CA	30:BF:184:TYR:OH	2.69	0.40
30:BF:36:VAL:HG23	30:BF:106:ARG:HA	2.03	0.40
30:BF:45:ARG:HG2	30:BF:97:TYR:CD2	2.56	0.40
16:AP:3:ARG:CZ	31:BG:113:ARG:CD	2.99	0.40
31:BG:131:TYR:CD1	31:BG:132:ASN:HA	2.56	0.40
31:BG:87:PRO:C	31:BG:88:ILE:HG13	2.40	0.40
31:BG:91:ARG:NE	31:BG:93:THR:OG1	2.55	0.40
32:BH:131:VAL:HG13	32:BH:131:VAL:O	2.21	0.40
32:BH:66:GLY:CA	32:BH:69:ARG:HG2	2.51	0.40
35:BM:122:VAL:HG23	35:BM:123:TYR:N	2.37	0.40
35:BM:13:TRP:CD1	35:BM:51:PHE:HB3	2.56	0.40
36:BN:24:VAL:CG2	36:BN:30:ALA:HB1	2.50	0.40
36:BN:78:ARG:H	36:BN:78:ARG:HG2	1.76	0.40
36:BN:90:GLN:OE1	36:BN:110:GLY:O	2.38	0.40
37:BO:111:ARG:NH2	37:BO:129:ALA:HB2	2.36	0.40
25:BA:2415:G:H4'	37:BO:61:ARG:H	1.87	0.40
37:BO:95:VAL:HG12	37:BO:95:VAL:O	2.20	0.40
38:BP:56:ARG:NH1	38:BP:57:HIS:CB	2.84	0.40
39:BQ:33:ARG:HA	39:BQ:115:GLU:HA	2.02	0.40
40:BR:9:ARG:HG3	40:BR:10:ARG:N	2.36	0.40
41:BS:29:ARG:HG2	41:BS:51:ARG:HG3	2.02	0.40
42:BT:36:ARG:O	42:BT:39:LEU:N	2.53	0.40
43:BU:23:GLU:HG2	43:BU:25:LEU:N	2.32	0.40
44:BV:5:ALA:CB	44:BV:50:VAL:HG12	2.38	0.40
46:BX:74:PRO:HB2	46:BX:100:ALA:HB1	2.03	0.40
26:BB:75:G:O2'	47:BY:27:VAL:HG22	2.21	0.40
47:BY:2:GLU:OE1	47:BY:58:VAL:HG23	2.21	0.40
47:BY:91:LEU:CD1	47:BY:95:PRO:HG3	2.42	0.40
48:BZ:76:GLY:O	48:BZ:78:TYR:HD1	2.01	0.40
25:BA:1061:U:OP1	25:BA:1062:G:C8	2.74	0.40
25:BA:1064:C:O5'	34:BL:89:HIS:CD2	2.75	0.40
34:BL:130:SER:HA	34:BL:133:SER:HB2	2.03	0.40
34:BL:57:ILE:CA	34:BL:66:THR:O	2.34	0.40
10:AJ:129:GLU:OE1	10:AJ:131:LYS:N	2.54	0.40
1:AA:91:C:HO2'	1:AA:92:G:H5'	1.85	0.40
27:BC:72:VAL:O	27:BC:72:VAL:HG12	2.21	0.40
6:AF:106:VAL:HG22	6:AF:106:VAL:H	1.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:983:A:O2'	1:AA:1049:U:O2'	2.31	0.40
1:AA:106:C:C2'	1:AA:107:G:O5'	2.69	0.40
1:AA:1125:U:C5	13:AM:5:ARG:NH1	2.88	0.40
1:AA:1194:U:C6	1:AA:1195:C:C5	3.09	0.40
1:AA:1269:A:N6	1:AA:1312:G:O2'	2.54	0.40
1:AA:1272:G:C2	1:AA:1273:G:C5	3.10	0.40
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.21	0.40
1:AA:1494:G:C2'	1:AA:1495:U:C6	3.03	0.40
1:AA:174:C:C4	1:AA:175:C:C5	3.09	0.40
1:AA:219:C:C5	1:AA:220:G:C8	3.10	0.40
1:AA:237:C:H2'	1:AA:237:C:O2	2.21	0.40
1:AA:270:A:H2'	1:AA:271:C:C6	2.55	0.40
1:AA:448:A:O2'	1:AA:449:C:C5'	2.69	0.40
1:AA:498:A:C4'	1:AA:500:G:OP1	2.66	0.40
1:AA:550:G:C4	1:AA:551:U:C5	3.10	0.40
1:AA:596:C:O2	1:AA:597:G:H8	2.05	0.40
1:AA:402:G:H4'	1:AA:620:C:H42	1.87	0.40
1:AA:682:G:N1	1:AA:683:G:N7	2.69	0.40
1:AA:685:G:N3	1:AA:686:U:C5	2.89	0.40
1:AA:835:U:O3'	21:AU:61:LYS:NZ	2.55	0.40
1:AA:866:C:C5	1:AA:867:G:N9	2.90	0.40
1:AA:885:G:C2	1:AA:913:A:C2	3.09	0.40
1:AA:928:G:O3'	1:AA:1533:C:O2'	2.35	0.40
2:AC:21:A:OP1	2:AC:21:A:O4'	2.40	0.40
3:AD:18:G:C1'	3:AD:60:U:O4	2.70	0.40
5:AE:178:ARG:NH2	5:AE:196:LEU:O	2.54	0.40
5:AE:80:ILE:CD1	5:AE:211:ILE:HG22	2.51	0.40
5:AE:53:ARG:O	5:AE:54:THR:C	2.60	0.40
5:AE:72:GLY:HA3	5:AE:165:VAL:HG13	2.02	0.40
5:AE:81:VAL:HA	5:AE:215:LEU:CD1	2.50	0.40
6:AF:12:LEU:CD2	6:AF:13:GLY:N	2.85	0.40
6:AF:36:ASP:C	6:AF:36:ASP:OD2	2.59	0.40
7:AG:108:LEU:C	7:AG:110:PHE:H	2.25	0.40
7:AG:120:LEU:CD1	7:AG:125:HIS:HD2	2.35	0.40
7:AG:147:ALA:CB	7:AG:181:MET:O	2.69	0.40
7:AG:29:PRO:O	7:AG:30:LYS:HG3	2.21	0.40
7:AG:61:LYS:HE3	7:AG:62:GLN:N	2.35	0.40
1:AA:428:G:OP2	7:AG:7:PRO:HG3	2.21	0.40
8:AH:109:ILE:HG23	8:AH:110:LEU:CD2	2.49	0.40
8:AH:35:GLY:N	8:AH:112:LEU:HD12	2.35	0.40
8:AH:45:PHE:CD1	8:AH:45:PHE:C	2.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:60:TYR:CE1	8:AH:64:ARG:CZ	3.04	0.40
9:AI:18:GLN:HB2	9:AI:18:GLN:HE21	1.53	0.40
9:AI:92:LYS:HB2	9:AI:94:GLN:OE1	2.21	0.40
10:AJ:23:VAL:HG12	10:AJ:27:ILE:HD11	2.03	0.40
12:AL:3:GLN:CB	12:AL:20:ARG:HG2	2.51	0.40
14:AN:33:THR:CA	14:AN:38:ASN:O	2.67	0.40
14:AN:43:SER:HA	14:AN:47:VAL:HG11	2.03	0.40
14:AN:17:GLY:HA3	14:AN:77:MET:CE	2.52	0.40
15:AO:84:LEU:N	15:AO:104:VAL:HG11	2.36	0.40
15:AO:52:LEU:CD2	15:AO:52:LEU:N	2.84	0.40
15:AO:7:ILE:O	15:AO:10:LEU:HB2	2.22	0.40
13:AM:63:PHE:HZ	17:AQ:45:ARG:HA	1.85	0.40
19:AS:74:LEU:HD22	19:AS:79:VAL:HB	2.03	0.40
20:AT:90:ILE:HG22	20:AT:94:ASN:HD21	1.86	0.40
1:AA:719:C:O2	21:AU:49:LYS:O	2.39	0.40
22:AV:68:GLY:C	22:AV:69:HIS:ND1	2.75	0.40
23:AW:31:SER:OG	23:AW:32:ALA:N	2.53	0.40
49:B1:25:ARG:NH2	49:B1:25:ARG:CB	2.85	0.40
50:B2:17:LYS:HA	50:B2:20:LYS:NZ	2.37	0.40
51:B3:33:VAL:CG1	51:B3:35:VAL:CG2	2.91	0.40
51:B3:5:ILE:CD1	51:B3:10:VAL:CG2	2.87	0.40
25:BA:125:G:C2	54:B6:14:LYS:HG2	2.56	0.40
55:B7:42:ARG:HG2	55:B7:43:GLN:NE2	2.35	0.40
56:B8:9:ARG:O	56:B8:10:ILE:HG23	2.21	0.40
25:BA:1106:G:C2	25:BA:1107:G:C2	3.09	0.40
25:BA:110:G:C5	25:BA:111:A:N7	2.89	0.40
25:BA:1134:G:N3	25:BA:1134:G:C2'	2.85	0.40
25:BA:1180:C:C2	25:BA:1181:C:C5	3.10	0.40
25:BA:1222:C:C2'	25:BA:1223:C:C5'	2.99	0.40
25:BA:1332:G:N3	25:BA:1609:A:C2	2.90	0.40
25:BA:1335:U:H2'	25:BA:1336:A:H8	1.86	0.40
25:BA:1381:G:O6	25:BA:1382:G:C6	2.75	0.40
25:BA:1439:A:H2'	25:BA:1440:G:C4'	2.49	0.40
25:BA:1439:A:H3'	25:BA:1440:G:C8	2.56	0.40
25:BA:1534:G:C6	25:BA:1536:A:OP2	2.74	0.40
25:BA:1561:G:H2'	25:BA:1562:A:H8	1.87	0.40
25:BA:1571:A:H2'	25:BA:1572:A:OP1	2.21	0.40
25:BA:1677:A:N1	25:BA:1678:G:C2	2.89	0.40
25:BA:1680:U:H2'	25:BA:1681:G:O4'	2.21	0.40
25:BA:1754:C:N4	25:BA:1755:A:N6	2.69	0.40
25:BA:1765:C:O2'	25:BA:1766:U:C5'	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1827:C:C2'	25:BA:1828:G:C5'	2.92	0.40
25:BA:1858:G:H8	25:BA:1858:G:H3'	1.86	0.40
25:BA:2004:G:C5	25:BA:2005:A:C4	3.10	0.40
25:BA:2009:G:C2	25:BA:2010:G:C8	3.10	0.40
25:BA:574:C:C4	25:BA:2054:A:H5''	2.56	0.40
25:BA:2093:G:C2'	25:BA:2094:G:O5'	2.69	0.40
25:BA:2129:C:P	27:BC:6:ARG:CG	3.06	0.40
25:BA:2161:C:C2	25:BA:2162:G:N7	2.90	0.40
25:BA:2168:G:N2	25:BA:2171:A:C8	2.89	0.40
25:BA:2162:G:H1'	25:BA:2173:A:O4'	2.22	0.40
25:BA:2195:C:O2	25:BA:2196:C:O4'	2.39	0.40
25:BA:2298:A:H3'	25:BA:2299:G:H8	1.86	0.40
25:BA:2335:A:C6	25:BA:2337:G:C2	3.09	0.40
25:BA:2352:A:N3	25:BA:2353:G:H1'	2.36	0.40
25:BA:2345:G:N3	25:BA:2381:C:H2'	2.36	0.40
25:BA:2462:U:N3	25:BA:2463:C:C4	2.89	0.40
25:BA:2496:C:C4	25:BA:2497:A:C2	3.09	0.40
25:BA:250:G:H2'	25:BA:251:A:C8	2.57	0.40
25:BA:2564:A:C6	25:BA:2565:A:C6	3.07	0.40
25:BA:2569:G:C5	25:BA:2570:G:N7	2.89	0.40
25:BA:1782:C:O4'	25:BA:2609:U:C6	2.75	0.40
25:BA:2051:A:C6	25:BA:2614:A:C8	3.08	0.40
25:BA:2665:A:O2'	25:BA:2666:C:O5'	2.39	0.40
25:BA:2677:G:H2'	25:BA:2678:C:H6	1.86	0.40
25:BA:270(C):C:C6	25:BA:270(D):C:H5	2.40	0.40
25:BA:2729:G:C5	25:BA:2730:C:C6	3.08	0.40
25:BA:2745:C:N3	25:BA:2746:U:C5	2.90	0.40
25:BA:2770:G:O2'	25:BA:2771:C:H5'	2.21	0.40
25:BA:27:G:C2	25:BA:512:G:O2'	2.71	0.40
25:BA:2809:A:O2'	25:BA:2811:G:OP2	2.23	0.40
25:BA:2831:G:H1'	25:BA:2883:A:N3	2.36	0.40
25:BA:2893:G:HO2'	25:BA:2894:G:C1'	2.34	0.40
25:BA:309:G:C5	25:BA:330:A:C6	3.10	0.40
25:BA:392:C:C2	25:BA:393:C:C5	3.09	0.40
25:BA:532:A:N6	25:BA:563:G:H5''	2.33	0.40
25:BA:583:G:HO2'	25:BA:584:C:P	2.44	0.40
25:BA:650:C:O2	25:BA:651:G:C5'	2.67	0.40
25:BA:665:C:O2	25:BA:666:G:N7	2.54	0.40
25:BA:747:U:C2'	25:BA:748:G:OP1	2.70	0.40
25:BA:733:G:C5	25:BA:761:A:C6	3.09	0.40
25:BA:778:G:C6	25:BA:779:U:N3	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:793:A:O2'	25:BA:794:G:P	2.79	0.40
25:BA:825:C:H2'	25:BA:826:U:C6	2.56	0.40
25:BA:853:G:O6	25:BA:925:C:N4	2.54	0.40
25:BA:952:G:H2'	25:BA:953:A:O5'	2.21	0.40
25:BA:956:G:H8	25:BA:956:G:O5'	2.03	0.40
26:BB:112:G:H5'	26:BB:113:C:OP2	2.21	0.40
26:BB:9:G:C5	26:BB:112:G:O6	2.74	0.40
27:BC:100:ILE:HG22	27:BC:104:LEU:CD2	2.52	0.40
27:BC:116:THR:OG1	27:BC:118:ASP:OD2	2.35	0.40
27:BC:128:GLY:HA2	27:BC:137:LEU:CD1	2.52	0.40
27:BC:143:GLY:O	27:BC:144:THR:HG23	2.21	0.40
27:BC:117:PRO:HD2	27:BC:147:PHE:CA	2.51	0.40
27:BC:200:LYS:HG3	27:BC:208:PHE:CD2	2.47	0.40
27:BC:27:HIS:O	27:BC:31:GLU:OE1	2.39	0.40
27:BC:78:ALA:HA	27:BC:119:VAL:HG22	2.00	0.40
28:BD:127:VAL:HA	28:BD:193:VAL:HG12	2.02	0.40
28:BD:242:ARG:O	28:BD:244:ARG:N	2.53	0.40
28:BD:24:ILE:C	28:BD:25:THR:HG1	2.22	0.40
29:BE:131:ALA:CA	29:BE:134:ILE:HG13	2.51	0.40
29:BE:44:TYR:HD1	29:BE:82:ARG:NH1	2.17	0.40
29:BE:91:VAL:CG2	29:BE:180:ASN:CG	2.89	0.40
29:BE:92:THR:H	29:BE:95:ILE:CG1	2.33	0.40
25:BA:449:A:C4'	30:BF:52:LYS:HZ2	2.25	0.40
31:BG:130:ASN:HA	31:BG:161:THR:OG1	2.22	0.40
31:BG:131:TYR:CB	31:BG:159:VAL:HG22	2.31	0.40
31:BG:33:ARG:HH22	31:BG:162:THR:N	2.19	0.40
31:BG:56:ALA:HB3	31:BG:68:PRO:CG	2.52	0.40
31:BG:83:ARG:C	31:BG:84:LYS:CG	2.89	0.40
25:BA:2657:A:O2'	32:BH:160:LYS:NZ	2.54	0.40
32:BH:60:ARG:O	32:BH:64:LEU:HB2	2.22	0.40
35:BM:10:GLU:HB3	35:BM:39:ARG:HH12	1.78	0.40
35:BM:86:PRO:CB	35:BM:89:LYS:HZ1	2.29	0.40
36:BN:77:ILE:CA	36:BN:78:ARG:NH1	2.85	0.40
37:BO:115:LEU:C	37:BO:116:GLY:O	2.60	0.40
25:BA:672:C:P	37:BO:38:GLN:NE2	2.94	0.40
37:BO:72:PRO:HD2	37:BO:111:ARG:CD	2.51	0.40
37:BO:78:PRO:HD2	37:BO:115:LEU:C	2.41	0.40
37:BO:6:LEU:O	37:BO:7:ARG:HG3	2.20	0.40
38:BP:134:ARG:C	38:BP:134:ARG:HD2	2.42	0.40
39:BQ:11:ASN:OD1	39:BQ:12:ARG:N	2.54	0.40
39:BQ:47:PHE:C	39:BQ:51:LEU:HD12	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BS:110:ILE:HB	41:BS:113:LYS:HB2	2.03	0.40
42:BT:44:ASN:ND2	43:BU:78:LYS:N	2.58	0.40
42:BT:68:ALA:HB2	42:BT:99:ALA:HB1	2.02	0.40
44:BV:42:ARG:CG	44:BV:43:GLY:H	2.31	0.40
44:BV:66:GLU:CD	44:BV:67:ASP:N	2.75	0.40
25:BA:2013:A:P	44:BV:96:ILE:HG22	2.60	0.40
46:BX:73:ARG:O	46:BX:74:PRO:O	2.39	0.40
47:BY:10:ARG:CZ	47:BY:36:LYS:CB	2.78	0.40
47:BY:71:VAL:HG22	47:BY:88:PHE:CD2	2.56	0.40
48:BZ:76:GLY:CA	48:BZ:78:TYR:CE1	3.04	0.40
25:BA:1059:G:O6	25:BA:1060:U:H1'	2.20	0.40
25:BA:1062:G:O2'	34:BL:75:SER:CB	2.70	0.40
34:BL:127:ILE:O	34:BL:131:ALA:CB	2.69	0.40
1:AA:87:A:HO2'	1:AA:88:C:H5'	1.84	0.40
15:AO:15:ARG:NH1	15:AO:15:ARG:HG2	2.36	0.40
4:A1:5:A:H2'	4:A1:6:G:H8	1.86	0.40
44:BV:97:LYS:HG2	44:BV:97:LYS:H	1.69	0.40
1:AA:1070:U:C2	1:AA:1071:C:C5	3.09	0.40
1:AA:1091:U:C6	1:AA:1093:A:OP2	2.73	0.40
1:AA:1151:A:N7	1:AA:1152:A:N7	2.69	0.40
1:AA:1159:U:C4	1:AA:1182:G:N3	2.89	0.40
1:AA:1185:G:H2'	1:AA:1186:G:H5'	2.02	0.40
1:AA:1198:G:H2'	1:AA:1199:U:C5'	2.52	0.40
1:AA:1212:U:O2'	1:AA:1213:A:C8	2.75	0.40
1:AA:1226:C:O2	1:AA:1226:C:C2'	2.68	0.40
1:AA:1226:C:O3'	16:AP:111:LYS:NZ	2.49	0.40
1:AA:1229:A:O2'	1:AA:1230:C:C5'	2.70	0.40
1:AA:1238:A:C5	1:AA:1303:C:H1'	2.57	0.40
1:AA:934:C:C5	1:AA:1344:C:C4	3.09	0.40
1:AA:1434:A:N6	1:AA:1467:G:H21	2.13	0.40
1:AA:1475:G:H5''	25:BA:1689:A:H4'	2.03	0.40
1:AA:244:U:O2'	1:AA:245:C:OP2	2.38	0.40
1:AA:308:C:H6	1:AA:308:C:C5'	2.24	0.40
1:AA:35:G:C5	1:AA:550:G:C2	3.10	0.40
1:AA:46:G:N2	1:AA:366:C:C6	2.90	0.40
1:AA:407:G:N1	1:AA:408:A:C5	2.90	0.40
1:AA:492:G:C5	1:AA:493:G:N7	2.89	0.40
1:AA:495:A:C1'	1:AA:496:A:C8	3.04	0.40
1:AA:563:A:H1'	1:AA:566:G:H2'	2.03	0.40
1:AA:682:G:N1	1:AA:683:G:C5	2.89	0.40
1:AA:662:G:N1	1:AA:744:C:C4	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:914:A:H2'	1:AA:915:A:N7	2.33	0.40
1:AA:985:C:C2	1:AA:986:A:N7	2.89	0.40
5:AE:43:ASP:OD2	5:AE:46:LYS:CB	2.70	0.40
5:AE:76:GLN:O	5:AE:77:ALA:HB2	2.21	0.40
5:AE:73:THR:O	5:AE:96:ARG:NH2	2.54	0.40
6:AF:142:MET:CB	6:AF:149:ALA:HB2	2.51	0.40
6:AF:16:ARG:NH2	6:AF:182:ILE:O	2.55	0.40
6:AF:67:THR:CG2	6:AF:69:HIS:CE1	3.05	0.40
7:AG:110:PHE:HZ	7:AG:182:LYS:HA	1.87	0.40
7:AG:122:ARG:C	7:AG:124:GLY:N	2.73	0.40
7:AG:201:GLN:HA	7:AG:204:ILE:HD13	2.04	0.40
7:AG:30:LYS:NZ	7:AG:35:ARG:NH1	2.67	0.40
7:AG:61:LYS:NZ	7:AG:72:GLU:OE2	2.51	0.40
1:AA:402:G:OP1	7:AG:74:GLN:NE2	2.55	0.40
8:AH:19:MET:HE3	8:AH:19:MET:C	2.41	0.40
9:AI:100:ASN:HD21	21:AU:23:LYS:C	2.22	0.40
9:AI:75:LEU:O	9:AI:75:LEU:HD13	2.21	0.40
10:AJ:36:LYS:CA	10:AJ:36:LYS:NZ	2.84	0.40
12:AL:11:LYS:C	12:AL:12:GLU:CD	2.79	0.40
14:AN:30:VAL:CG1	14:AN:31:THR:N	2.84	0.40
1:AA:1230:C:H4'	16:AP:125:ARG:NH2	2.37	0.40
18:AR:18:PHE:C	18:AR:20:GLY:H	2.24	0.40
18:AR:65:ARG:CB	18:AR:65:ARG:NH1	2.84	0.40
19:AS:7:ALA:HB3	19:AS:18:ARG:CG	2.51	0.40
20:AT:66:SER:HB3	20:AT:69:LYS:HZ2	1.85	0.40
21:AU:66:LEU:HD12	21:AU:70:ILE:HD11	2.01	0.40
21:AU:70:ILE:O	21:AU:73:ALA:HB3	2.22	0.40
22:AV:13:ASP:O	22:AV:13:ASP:CG	2.60	0.40
23:AW:13:LEU:O	23:AW:16:HIS:CB	2.69	0.40
23:AW:48:LYS:HD2	23:AW:48:LYS:N	2.36	0.40
23:AW:67:ALA:O	23:AW:68:LYS:C	2.59	0.40
50:B2:4:LEU:HD22	50:B2:37:LEU:HD22	2.04	0.40
50:B2:47:VAL:HG13	50:B2:54:VAL:HG11	2.02	0.40
50:B2:51:ALA:C	50:B2:53:LEU:H	2.25	0.40
25:BA:686:G:H2'	54:B6:5:TRP:O	2.21	0.40
25:BA:242:G:N7	55:B7:2:PRO:HG2	2.37	0.40
55:B7:44:LYS:O	55:B7:44:LYS:CG	2.66	0.40
25:BA:1036:G:C2	25:BA:1037:G:C8	3.09	0.40
25:BA:1049:C:N4	25:BA:1051:G:C6	2.89	0.40
25:BA:1042:G:N2	25:BA:1114:G:C4	2.81	0.40
25:BA:1174:A:H1'	25:BA:1175:U:C6	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:117:G:H2'	25:BA:119:A:N7	2.37	0.40
25:BA:1293:C:C2	25:BA:1294:U:C6	3.10	0.40
25:BA:1303:G:H22	25:BA:1626:G:C1'	2.32	0.40
25:BA:1315:C:C2'	25:BA:1316:U:O5'	2.70	0.40
25:BA:1314:C:N4	25:BA:1315:C:N4	2.69	0.40
25:BA:1359:A:C4	25:BA:1373:A:C2	3.10	0.40
25:BA:1372:U:C6	25:BA:1372:U:C4'	3.04	0.40
25:BA:1403:C:O2'	25:BA:1404:C:O5'	2.39	0.40
25:BA:1473:G:H2'	25:BA:1474:C:C4'	2.51	0.40
25:BA:1536:A:C4	25:BA:1537:C:C5	3.09	0.40
25:BA:1434:A:N6	25:BA:1558:A:N6	2.52	0.40
25:BA:1394:U:H5''	25:BA:1604:C:P	2.61	0.40
25:BA:1819:A:C2'	25:BA:1820:U:OP2	2.69	0.40
25:BA:1974:C:N3	25:BA:1975:G:N7	2.69	0.40
25:BA:1987:G:H2'	25:BA:1988:C:C6	2.57	0.40
25:BA:2016:U:O2	25:BA:2016:U:H2'	2.20	0.40
25:BA:200:U:C5	25:BA:201:C:C1'	3.04	0.40
25:BA:2035:G:H4'	25:BA:2036:C:OP2	2.22	0.40
25:BA:2006:C:H5''	25:BA:2048:G:O3'	2.22	0.40
25:BA:2163:C:H2'	25:BA:2164:C:C5'	2.47	0.40
25:BA:222:A:C5	25:BA:224:G:C4	3.09	0.40
25:BA:2273:A:C8	25:BA:2274:A:N9	2.90	0.40
25:BA:2309:A:H3'	25:BA:2309:A:N3	2.36	0.40
25:BA:2345:G:O2'	25:BA:2382:G:H5'	2.20	0.40
25:BA:2373:G:C4	25:BA:2374:C:C5	3.10	0.40
25:BA:2384:G:H3'	25:BA:2385:C:O3'	2.20	0.40
25:BA:2420:C:H2'	25:BA:2421:G:C8	2.55	0.40
25:BA:2490:G:N2	25:BA:2491:U:C2	2.90	0.40
25:BA:2527:C:C2	25:BA:2528:U:C5	3.09	0.40
25:BA:2531:A:C2	25:BA:2532:G:N9	2.90	0.40
25:BA:2590:A:C4	25:BA:2591:C:C5	3.09	0.40
25:BA:2023:G:H4'	25:BA:2618:G:OP1	2.21	0.40
25:BA:270(E):G:C4	25:BA:270(V):G:N2	2.90	0.40
25:BA:2715:C:N4	25:BA:2716:U:O4	2.55	0.40
25:BA:2731:G:HO2'	25:BA:2732:G:C5'	2.35	0.40
25:BA:2790:A:H2	25:BA:2894:G:C8	2.40	0.40
25:BA:2828:C:O2'	25:BA:2829:C:O5'	2.32	0.40
25:BA:183:C:H5'	25:BA:433:C:H4'	2.04	0.40
25:BA:495:G:H5''	44:BV:4:LYS:HG3	2.03	0.40
25:BA:558:G:C2	25:BA:559:G:C8	3.10	0.40
25:BA:577:G:C4	25:BA:578:A:C8	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:806:C:C6	25:BA:806:C:H3'	2.56	0.40
25:BA:674:G:N2	25:BA:807:U:O4	2.53	0.40
25:BA:80:G:N2	25:BA:81:G:C1'	2.82	0.40
25:BA:895:U:O2'	25:BA:896:A:C8	2.66	0.40
25:BA:953:A:N1	25:BA:965:C:C2	2.90	0.40
26:BB:28:C:H2'	26:BB:29:A:O4'	2.22	0.40
27:BC:103:ILE:CD1	27:BC:110:PHE:CZ	3.05	0.40
27:BC:115:ALA:HB1	27:BC:123:VAL:HG21	2.02	0.40
27:BC:134:ARG:CB	27:BC:136:LEU:HD12	2.50	0.40
27:BC:190:ARG:CB	27:BC:190:ARG:NH1	2.84	0.40
27:BC:25:ALA:CB	27:BC:214:VAL:HG21	2.51	0.40
28:BD:9:TYR:N	28:BD:9:TYR:CD1	2.89	0.40
29:BE:105:THR:HG23	29:BE:199:ARG:CZ	2.51	0.40
29:BE:149:ARG:HB2	29:BE:150:VAL:H	1.64	0.40
29:BE:47:VAL:HG23	29:BE:79:ARG:HD2	2.03	0.40
29:BE:76:ARG:CG	29:BE:76:ARG:O	2.69	0.40
30:BF:69:HIS:O	30:BF:69:HIS:CG	2.67	0.40
31:BG:8:LYS:CE	31:BG:103:LEU:HD23	2.45	0.40
32:BH:115:VAL:HG13	32:BH:117:PRO:CD	2.52	0.40
32:BH:136:ILE:HG23	32:BH:137:ASP:H	1.85	0.40
32:BH:83:TYR:CD1	32:BH:138:LYS:HG3	2.56	0.40
32:BH:85:LYS:HB2	32:BH:141:VAL:HG12	2.03	0.40
33:BK:31:LEU:CA	33:BK:33:ARG:HG2	2.50	0.40
33:BK:7:GLU:O	33:BK:12:LEU:C	2.59	0.40
35:BM:18:ALA:H	35:BM:21:LYS:CD	2.34	0.40
35:BM:37:LYS:NZ	35:BM:44:PRO:N	2.69	0.40
36:BN:3:GLN:CB	36:BN:6:THR:CG2	2.97	0.40
37:BO:114:ILE:HG22	37:BO:116:GLY:H	1.85	0.40
37:BO:124:LYS:HB3	37:BO:138:LEU:HG	2.04	0.40
37:BO:131:SER:O	37:BO:134:ALA:CB	2.58	0.40
37:BO:124:LYS:HA	37:BO:145:PRO:HD3	2.04	0.40
37:BO:51:PHE:C	37:BO:55:ARG:HD2	2.42	0.40
37:BO:55:ARG:CG	37:BO:55:ARG:NH2	2.81	0.40
37:BO:91:PHE:CD2	37:BO:96:THR:HG22	2.56	0.40
38:BP:11:LYS:HG2	38:BP:13:GLN:N	2.36	0.40
25:BA:1279:G:H4'	39:BQ:31:HIS:CD2	2.56	0.40
39:BQ:63:ARG:NH2	39:BQ:77:ARG:CG	2.81	0.40
39:BQ:61:HIS:O	39:BQ:64:ARG:N	2.54	0.40
41:BS:54:ARG:CD	41:BS:100:TYR:CG	3.04	0.40
41:BS:99:LEU:HG	41:BS:99:LEU:H	1.15	0.40
25:BA:18:C:H5''	42:BT:26:GLY:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BT:57:PHE:HA	42:BT:60:LEU:HB2	2.02	0.40
43:BU:24:LYS:C	43:BU:26:ASP:N	2.70	0.40
43:BU:28:GLU:C	43:BU:30:GLY:H	2.25	0.40
43:BU:60:GLU:CA	43:BU:60:GLU:OE2	2.67	0.40
44:BV:10:VAL:HG23	44:BV:12:ILE:CD1	2.52	0.40
44:BV:33:ARG:O	44:BV:34:ASN:C	2.60	0.40
45:BW:88:LYS:O	45:BW:89:ILE:HB	2.21	0.40
46:BX:46:LYS:HE2	46:BX:47:LYS:HD3	2.03	0.40
47:BY:118:GLN:CD	47:BY:119:GLU:N	2.75	0.40
47:BY:29:TYR:HB3	47:BY:89:PHE:HD2	1.82	0.40
47:BY:1:MET:SD	47:BY:3:TYR:CE2	3.15	0.40
47:BY:41:LEU:C	47:BY:45:ASP:OD2	2.59	0.40
47:BY:1:MET:H2	47:BY:58:VAL:HG11	1.85	0.40
47:BY:60:GLU:OE2	47:BY:67:LEU:O	2.40	0.40
48:BZ:23:VAL:HG22	48:BZ:45:PHE:CZ	2.56	0.40
48:BZ:70:GLN:O	48:BZ:71:ASP:C	2.57	0.40
33:BK:128:LEU:HD23	33:BK:129:THR:H	1.84	0.40
33:BK:81:VAL:HB	33:BK:88:ILE:HG12	2.04	0.40
34:BL:112:MET:SD	34:BL:123:ALA:HB2	2.61	0.40
25:BA:1080:C:H1'	34:BL:126:MET:HA	2.03	0.40
34:BL:19:PRO:HB2	34:BL:22:PRO:HG2	2.04	0.40
25:BA:842:G:C6	25:BA:843:G:C6	3.09	0.40
1:AA:1032(B):G:H2'	1:AA:1033:G:O4'	2.21	0.40
1:AA:1040:U:C2	1:AA:1041:A:C8	3.09	0.40
1:AA:90:C:H2'	1:AA:91:C:H6	1.86	0.40
7:AG:118:ARG:HH21	7:AG:118:ARG:HG3	1.85	0.40
38:BP:116:GLU:CA	38:BP:116:GLU:OE1	2.61	0.40
1:AA:108:G:C2	1:AA:109:A:N1	2.89	0.40
1:AA:1128:C:H1'	1:AA:1146:A:N6	2.28	0.40
1:AA:1152:A:C2	1:AA:1153:C:C6	3.10	0.40
1:AA:1158:C:C4	1:AA:1160:G:C1'	3.01	0.40
1:AA:1269:A:H8	1:AA:1270:C:O4'	2.03	0.40
1:AA:1277:C:O2'	1:AA:1279:A:C8	2.71	0.40
1:AA:130:A:N6	20:AT:64:PRO:HG2	2.37	0.40
1:AA:144:G:H2'	1:AA:144:G:N3	2.36	0.40
1:AA:1454:G:O2'	1:AA:1455:G:C5'	2.70	0.40
1:AA:1531:A:H8	1:AA:1531:A:C5'	2.35	0.40
1:AA:184:G:H5'	1:AA:224:C:H4'	2.04	0.40
1:AA:124:G:H21	1:AA:238:G:H1'	1.84	0.40
1:AA:258:G:H2'	1:AA:259:G:H8	1.86	0.40
1:AA:289:G:C2	1:AA:290:C:C4	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:33:A:C6	1:AA:34:C:C4	3.09	0.40
1:AA:377:G:N3	1:AA:378:G:C8	2.90	0.40
1:AA:404:U:C2	1:AA:405:U:C5	3.04	0.40
1:AA:501:C:N3	1:AA:502:G:N7	2.69	0.40
1:AA:580:U:C2'	1:AA:581:G:C8	3.02	0.40
1:AA:61:G:C8	1:AA:62:U:C5	3.10	0.40
1:AA:703:G:O2'	1:AA:704:A:P	2.80	0.40
1:AA:809:G:N2	1:AA:810:C:N1	2.70	0.40
1:AA:577:G:C8	1:AA:816:A:C6	3.09	0.40
1:AA:828:A:C8	1:AA:829:G:C4	3.10	0.40
1:AA:834:C:O2'	1:AA:835:U:C5'	2.52	0.40
1:AA:865:A:C4	1:AA:866:C:O2	2.74	0.40
2:AC:13:C:H2'	2:AC:14:A:O5'	2.22	0.40
2:AC:15:G:N2	2:AC:59:A:N6	2.69	0.40
2:AC:72:A:O2'	2:AC:73:A:C8	2.73	0.40
3:AD:35:A:C8	3:AD:36:A:C8	3.09	0.40
5:AE:92:TYR:CE2	5:AE:151:GLY:HA2	2.52	0.40
5:AE:156:LYS:O	5:AE:157:ARG:HG3	2.21	0.40
5:AE:15:VAL:HB	5:AE:16:HIS:H	1.57	0.40
5:AE:47:THR:HA	5:AE:202:PRO:HG2	2.03	0.40
5:AE:54:THR:HG23	5:AE:185:ILE:CG2	2.51	0.40
6:AF:76:VAL:CG1	6:AF:103:VAL:HG11	2.52	0.40
6:AF:85:ARG:O	6:AF:89:GLU:HB3	2.22	0.40
7:AG:123:HIS:H	7:AG:123:HIS:CD2	2.40	0.40
7:AG:124:GLY:O	7:AG:125:HIS:C	2.59	0.40
7:AG:165:MET:HE3	7:AG:167:GLY:N	2.36	0.40
9:AI:98:LEU:HG	21:AU:28:GLU:CG	2.51	0.40
11:AK:113:SER:HB2	11:AK:134:ILE:HD11	2.02	0.40
12:AL:122:ALA:O	12:AL:123:PRO:O	2.40	0.40
2:AC:33:U:OP2	12:AL:128:ARG:O	2.39	0.40
12:AL:4:TYR:CG	12:AL:88:TYR:HB2	2.56	0.40
13:AM:3:LYS:HE2	13:AM:77:PRO:CD	2.51	0.40
15:AO:101:VAL:O	15:AO:102:ARG:O	2.39	0.40
16:AP:52:GLU:HA	16:AP:55:ARG:CG	2.51	0.40
18:AR:64:ARG:CA	18:AR:67:LEU:HD12	2.22	0.40
22:AV:21:GLU:O	22:AV:24:ALA:CB	2.70	0.40
23:AW:51:GLU:HA	23:AW:54:LYS:HE3	2.01	0.40
49:B1:16:LEU:CD2	49:B1:59:LEU:CB	2.96	0.40
49:B1:23:LYS:O	49:B1:24:LYS:C	2.60	0.40
50:B2:27:GLY:C	50:B2:28:LEU:HG	2.42	0.40
50:B2:44:ARG:O	50:B2:47:VAL:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B3:4:GLY:HA2	51:B3:11:PRO:CG	2.51	0.40
51:B3:53:GLU:CG	51:B3:54:GLY:H	2.34	0.40
51:B3:57:GLU:N	51:B3:61:ARG:NH1	2.70	0.40
53:B5:8:LYS:HB3	53:B5:29:ASN:HB3	2.03	0.40
54:B6:35:ARG:HB2	54:B6:36:GLN:OE1	2.22	0.40
55:B7:26:LYS:HE3	55:B7:45:GLY:CA	2.52	0.40
55:B7:30:ARG:NH1	55:B7:44:LYS:CB	2.76	0.40
55:B7:30:ARG:HG2	55:B7:31:HIS:H	1.87	0.40
55:B7:4:MET:CE	55:B7:62:LEU:CD1	2.99	0.40
25:BA:1011:G:C6	25:BA:1151:G:N1	2.88	0.40
25:BA:1028:A:C2'	25:BA:1029:A:O5'	2.69	0.40
25:BA:1107:G:N7	25:BA:1108:U:C6	2.89	0.40
25:BA:116:C:H2'	25:BA:117:G:H8	1.86	0.40
25:BA:1176:G:C3'	25:BA:1177:A:H5'	2.51	0.40
25:BA:1176:G:H8	25:BA:1177:A:O4'	2.04	0.40
25:BA:1186:G:H8	25:BA:1186:G:H5''	1.87	0.40
25:BA:1238:G:N2	25:BA:1239:G:N9	2.70	0.40
25:BA:1394:U:O3'	25:BA:1603:A:H5''	2.21	0.40
25:BA:1418:G:O6	25:BA:1577:C:H5''	2.22	0.40
25:BA:1509:C:H2'	25:BA:1510:A:OP1	2.22	0.40
25:BA:1557:C:N3	25:BA:1558:A:N7	2.70	0.40
25:BA:1594:G:C2	25:BA:1595:G:H1'	2.57	0.40
25:BA:1613:G:N1	25:BA:1619:G:N7	2.69	0.40
25:BA:1619:G:N2	25:BA:1620:G:N9	2.69	0.40
25:BA:1619:G:C8	25:BA:1619:G:O5'	2.74	0.40
25:BA:1643:G:C2	25:BA:1644:C:N1	2.89	0.40
25:BA:1670:C:OP2	25:BA:2550:G:OP1	2.39	0.40
25:BA:1774:C:C5	25:BA:1775:U:C2	3.07	0.40
25:BA:1792:G:P	28:BD:206:LEU:HD11	2.61	0.40
25:BA:1803:A:H4'	28:BD:257:LEU:CD1	2.37	0.40
25:BA:1904:G:C6	25:BA:1905:C:C5	3.08	0.40
25:BA:1927:A:C6	25:BA:1928:A:C6	3.09	0.40
25:BA:1984:G:C5	25:BA:1985:G:N7	2.89	0.40
25:BA:1997:G:O6	25:BA:1998:G:C6	2.75	0.40
25:BA:201:C:C5	25:BA:202:U:C5	3.09	0.40
25:BA:2215:G:C2	25:BA:2216:G:C8	3.09	0.40
25:BA:2291:U:O2'	25:BA:2292:C:O4'	2.39	0.40
25:BA:2306:C:N4	31:BG:42:GLY:C	2.74	0.40
25:BA:2310:A:C8	25:BA:2310:A:O5'	2.63	0.40
25:BA:2298:A:H4'	25:BA:2322:A:HO2'	1.80	0.40
25:BA:2331:G:O2'	25:BA:2336:A:N6	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2348:U:H3'	55:B7:42:ARG:HH21	1.74	0.40
25:BA:23:G:H2'	25:BA:24:G:H5'	2.04	0.40
25:BA:2428:G:C4'	25:BA:2429:G:O5'	2.70	0.40
25:BA:2431:U:C6	25:BA:2431:U:C3'	3.05	0.40
25:BA:2435:A:C2	25:BA:2436:G:C4	3.10	0.40
25:BA:2447:G:C4	25:BA:2501:C:C5	3.09	0.40
25:BA:2505:G:C8	25:BA:2576:G:N2	2.77	0.40
25:BA:2511:U:C4	25:BA:2512:C:C4	3.09	0.40
25:BA:2521:C:H2'	25:BA:2522:U:O4'	2.22	0.40
25:BA:2580:U:C6	25:BA:2581:G:C8	3.10	0.40
25:BA:1966:A:N3	25:BA:2593:U:H4'	2.36	0.40
25:BA:2661:G:C4	25:BA:2662:A:N7	2.89	0.40
25:BA:2745:C:C4	25:BA:2746:U:C5	3.10	0.40
25:BA:2794:C:H5''	25:BA:2794:C:C6	2.57	0.40
25:BA:2843:G:N3	25:BA:2844:G:H8	2.18	0.40
25:BA:2854:G:C2	25:BA:2855:C:C2	3.10	0.40
25:BA:2848:G:C2	25:BA:2867:G:N3	2.83	0.40
25:BA:2876:G:N1	25:BA:2877:G:N7	2.70	0.40
25:BA:2880:C:H2'	25:BA:2881:C:C6	2.54	0.40
25:BA:287:C:C3'	25:BA:288:C:C6	3.04	0.40
25:BA:371:A:N6	25:BA:424:G:O4'	2.46	0.40
25:BA:476:G:H5'	25:BA:505:A:N3	2.35	0.40
25:BA:529:A:N6	25:BA:2023:G:C8	2.90	0.40
25:BA:560:C:C2'	25:BA:561:G:O5'	2.69	0.40
25:BA:647:G:N3	25:BA:648:G:N7	2.68	0.40
25:BA:680:G:N3	25:BA:681:G:C8	2.89	0.40
25:BA:775:G:H21	25:BA:787:U:H3'	1.82	0.40
25:BA:77:C:C2	25:BA:78:A:C8	3.10	0.40
25:BA:824:A:N3	25:BA:824:A:H2'	2.37	0.40
25:BA:833:U:C2'	25:BA:834:C:O5'	2.69	0.40
26:BB:31:C:N4	26:BB:32:C:N4	2.69	0.40
26:BB:43:C:O2	31:BG:95:ARG:CB	2.63	0.40
27:BC:36:LYS:O	27:BC:37:PHE:CD2	2.74	0.40
28:BD:92:ILE:HD12	28:BD:104:TYR:CD1	2.55	0.40
25:BA:1971:A:C1'	28:BD:240:ALA:HB2	2.50	0.40
28:BD:256:GLY:C	28:BD:257:LEU:HG	2.30	0.40
28:BD:261:LYS:O	28:BD:262:ARG:C	2.60	0.40
29:BE:108:SER:O	29:BE:109:LYS:C	2.60	0.40
29:BE:11:MET:HG3	29:BE:12:THR:N	2.33	0.40
29:BE:113:PHE:CD2	29:BE:159:HIS:HB2	2.56	0.40
29:BE:64:LYS:O	29:BE:66:HIS:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:74:PRO:C	29:BE:75:VAL:HG22	2.42	0.40
29:BE:45:THR:CB	29:BE:80:GLU:O	2.69	0.40
30:BF:146:ALA:CB	30:BF:148:LEU:CD2	2.99	0.40
30:BF:171:PRO:HB2	30:BF:172:TRP:HE3	1.85	0.40
30:BF:183:VAL:O	30:BF:187:VAL:HG13	2.22	0.40
30:BF:39:TRP:HZ3	30:BF:43:LYS:CD	2.35	0.40
25:BA:449:A:C2'	30:BF:52:LYS:HZ3	2.35	0.40
31:BG:139:LEU:O	31:BG:142:PRO:HD3	2.22	0.40
32:BH:23:ARG:CD	32:BH:34:GLU:HB3	2.40	0.40
32:BH:69:ARG:HB2	32:BH:69:ARG:NH2	2.33	0.40
32:BH:5:GLY:O	32:BH:6:ARG:HB2	2.21	0.40
33:BK:10:GLU:N	33:BK:10:GLU:CD	2.74	0.40
35:BM:55:VAL:CG1	35:BM:127:ASP:CA	2.97	0.40
35:BM:18:ALA:CB	35:BM:54:VAL:HG13	2.37	0.40
36:BN:5:GLN:CG	36:BN:20:MET:SD	3.10	0.40
36:BN:3:GLN:HG2	36:BN:6:THR:CG2	2.51	0.40
36:BN:15:GLY:N	36:BN:52:VAL:CG2	2.77	0.40
25:BA:832:G:OP1	37:BO:35:HIS:HB3	2.22	0.40
38:BP:59:ARG:O	38:BP:59:ARG:HD2	2.21	0.40
39:BQ:71:GLN:O	39:BQ:72:ASP:CB	2.69	0.40
40:BR:48:LEU:HB2	40:BR:49:VAL:H	1.71	0.40
40:BR:70:GLY:C	40:BR:104:GLY:CA	2.89	0.40
41:BS:33:LYS:HB2	41:BS:45:PHE:CD1	2.56	0.40
41:BS:72:VAL:HG12	41:BS:73:GLU:H	1.83	0.40
42:BT:102:GLU:C	42:BT:105:VAL:HB	2.41	0.40
42:BT:108:GLU:CB	42:BT:111:GLU:OE2	2.69	0.40
42:BT:15:LYS:CA	42:BT:18:LEU:CD2	2.94	0.40
42:BT:43:GLY:O	42:BT:44:ASN:C	2.59	0.40
43:BU:30:GLY:CA	43:BU:33:VAL:HG22	2.52	0.40
46:BX:12:THR:CG2	46:BX:13:VAL:N	2.67	0.40
46:BX:60:PHE:C	46:BX:60:PHE:HD2	2.25	0.40
46:BX:97:ARG:HB3	46:BX:101:LYS:HE2	2.03	0.40
34:BL:19:PRO:HB2	34:BL:22:PRO:CG	2.52	0.40
47:BY:112:ARG:O	47:BY:112:ARG:CG	2.65	0.40
1:AA:1446:A:O4'	1:AA:1446:A:N3	2.54	0.40
46:BX:86:ARG:HG2	46:BX:91:GLU:HB3	1.99	0.40
26:BB:87:G:N2	26:BB:90:C:C2	2.89	0.40
25:BA:439:G:C2	25:BA:440:G:C4	3.09	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	
5	AE	232/256 (91%)	112 (48%)	47 (20%)	73 (32%)	0	0
6	AF	204/239 (85%)	115 (56%)	43 (21%)	46 (22%)	0	1
7	AG	206/209 (99%)	103 (50%)	61 (30%)	42 (20%)	0	2
8	AH	148/162 (91%)	92 (62%)	34 (23%)	22 (15%)	0	5
9	AI	99/101 (98%)	58 (59%)	19 (19%)	22 (22%)	0	1
10	AJ	153/156 (98%)	74 (48%)	40 (26%)	39 (26%)	0	1
11	AK	136/138 (99%)	71 (52%)	32 (24%)	33 (24%)	0	1
12	AL	125/128 (98%)	64 (51%)	33 (26%)	28 (22%)	0	1
13	AM	96/105 (91%)	55 (57%)	14 (15%)	27 (28%)	0	0
14	AN	117/129 (91%)	62 (53%)	30 (26%)	25 (21%)	0	2
15	AO	122/132 (92%)	62 (51%)	22 (18%)	38 (31%)	0	0
16	AP	123/126 (98%)	63 (51%)	36 (29%)	24 (20%)	0	3
17	AQ	58/61 (95%)	28 (48%)	14 (24%)	16 (28%)	0	0
18	AR	86/89 (97%)	40 (46%)	33 (38%)	13 (15%)	0	5
19	AS	81/88 (92%)	45 (56%)	21 (26%)	15 (18%)	0	3
20	AT	102/105 (97%)	63 (62%)	22 (22%)	17 (17%)	0	5
21	AU	71/88 (81%)	30 (42%)	18 (25%)	23 (32%)	0	0
22	AV	78/93 (84%)	32 (41%)	18 (23%)	28 (36%)	0	0
23	AW	97/106 (92%)	32 (33%)	36 (37%)	29 (30%)	0	0
24	AX	22/27 (82%)	9 (41%)	8 (36%)	5 (23%)	0	1
27	BC	226/229 (99%)	137 (61%)	52 (23%)	37 (16%)	0	5
28	BD	270/276 (98%)	129 (48%)	49 (18%)	92 (34%)	0	0
29	BE	204/206 (99%)	106 (52%)	39 (19%)	59 (29%)	0	0
30	BF	206/210 (98%)	100 (48%)	47 (23%)	59 (29%)	0	0
31	BG	180/182 (99%)	79 (44%)	42 (23%)	59 (33%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
32	BH	172/180 (96%)	89 (52%)	41 (24%)	42 (24%)	0	1
33	BK	146/148 (99%)	88 (60%)	32 (22%)	26 (18%)	0	3
34	BL	136/147 (92%)	66 (48%)	32 (24%)	38 (28%)	0	0
35	BM	137/140 (98%)	66 (48%)	31 (23%)	40 (29%)	0	0
36	BN	120/122 (98%)	63 (52%)	21 (18%)	36 (30%)	0	0
37	BO	143/150 (95%)	60 (42%)	31 (22%)	52 (36%)	0	0
38	BP	134/141 (95%)	51 (38%)	35 (26%)	48 (36%)	0	0
39	BQ	115/118 (98%)	64 (56%)	33 (29%)	18 (16%)	0	5
40	BR	108/112 (96%)	45 (42%)	30 (28%)	33 (31%)	0	0
41	BS	115/146 (79%)	53 (46%)	26 (23%)	36 (31%)	0	0
42	BT	115/118 (98%)	49 (43%)	39 (34%)	27 (24%)	0	1
43	BU	99/101 (98%)	51 (52%)	22 (22%)	26 (26%)	0	1
44	BV	108/113 (96%)	69 (64%)	15 (14%)	24 (22%)	0	1
45	BW	92/96 (96%)	59 (64%)	14 (15%)	19 (21%)	0	2
46	BX	108/110 (98%)	41 (38%)	27 (25%)	40 (37%)	0	0
47	BY	178/206 (86%)	93 (52%)	48 (27%)	37 (21%)	0	2
48	BZ	83/85 (98%)	50 (60%)	14 (17%)	19 (23%)	0	1
49	B1	65/67 (97%)	27 (42%)	26 (40%)	12 (18%)	0	3
50	B2	57/60 (95%)	32 (56%)	16 (28%)	9 (16%)	0	5
51	B3	69/71 (97%)	26 (38%)	19 (28%)	24 (35%)	0	0
52	B4	55/60 (92%)	16 (29%)	12 (22%)	27 (49%)	0	0
53	B5	47/54 (87%)	13 (28%)	7 (15%)	27 (57%)	0	0
54	B6	47/49 (96%)	16 (34%)	16 (34%)	15 (32%)	0	0
55	B7	62/65 (95%)	29 (47%)	11 (18%)	22 (36%)	0	0
56	B8	35/37 (95%)	20 (57%)	4 (11%)	11 (31%)	0	0
All	All	5988/6337 (94%)	2997 (50%)	1412 (24%)	1579 (26%)	0	1

All (1579) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	AE	13	ALA
5	AE	15	VAL
5	AE	17	PHE

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Mol	Chain	Res	Type
5	AE	19	HIS
5	AE	20	GLU
5	AE	21	ARG
5	AE	44	LEU
5	AE	45	GLN
5	AE	76	GLN
5	AE	91	PRO
5	AE	97	TRP
5	AE	104	ASN
5	AE	120	ALA
5	AE	121	LEU
5	AE	124	SER
5	AE	127	ILE
5	AE	130	ARG
5	AE	131	PRO
5	AE	141	GLU
5	AE	153	ARG
5	AE	154	LEU
5	AE	155	LEU
5	AE	157	ARG
5	AE	161	ALA
5	AE	165	VAL
5	AE	171	ALA
5	AE	172	ILE
5	AE	182	ILE
5	AE	189	ASP
5	AE	194	PRO
5	AE	195	ASP
5	AE	204	ASN
5	AE	229	VAL
5	AE	232	PRO
5	AE	233	SER
6	AF	12	LEU
6	AF	16	ARG
6	AF	18	TRP
6	AF	22	TRP
6	AF	24	ALA
6	AF	26	LYS
6	AF	27	LYS
6	AF	28	GLN
6	AF	39	ILE
6	AF	52	LEU

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Mol	Chain	Res	Type
6	AF	53	ALA
6	AF	65	ALA
6	AF	79	ARG
6	AF	83	ARG
6	AF	84	ILE
6	AF	95	THR
6	AF	97	LYS
6	AF	119	ARG
6	AF	127	ARG
6	AF	129	ALA
6	AF	146	ALA
6	AF	157	ILE
7	AG	3	ARG
7	AG	17	VAL
7	AG	18	LYS
7	AG	21	LEU
7	AG	29	PRO
7	AG	30	LYS
7	AG	71	SER
7	AG	88	VAL
7	AG	99	SER
7	AG	109	GLY
7	AG	123	HIS
7	AG	126	ILE
7	AG	131	ARG
7	AG	142	PRO
7	AG	149	ALA
7	AG	150	GLU
7	AG	151	LYS
7	AG	168	ARG
7	AG	170	VAL
7	AG	179	GLU
7	AG	199	ASN
8	AH	77	PRO
8	AH	102	ALA
8	AH	115	VAL
8	AH	117	ASP
8	AH	125	SER
8	AH	128	PRO
8	AH	129	ILE
8	AH	141	GLN
8	AH	153	LYS

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Mol	Chain	Res	Type
9	AI	11	ASN
9	AI	15	ASP
9	AI	16	GLN
9	AI	42	GLU
9	AI	51	PRO
9	AI	81	ILE
9	AI	82	ARG
9	AI	84	ASN
9	AI	97	PHE
10	AJ	6	ARG
10	AJ	10	ARG
10	AJ	14	PRO
10	AJ	17	VAL
10	AJ	31	MET
10	AJ	33	ASP
10	AJ	35	LYS
10	AJ	56	GLN
10	AJ	71	PRO
10	AJ	90	GLU
10	AJ	91	VAL
10	AJ	92	SER
10	AJ	111	ARG
10	AJ	121	ALA
10	AJ	134	ALA
10	AJ	140	ASP
10	AJ	142	GLU
10	AJ	149	ARG
10	AJ	153	HIS
11	AK	24	THR
11	AK	29	SER
11	AK	30	ARG
11	AK	63	LEU
11	AK	70	GLN
11	AK	74	PRO
11	AK	75	ARG
11	AK	77	GLU
11	AK	78	GLN
11	AK	103	VAL
11	AK	105	ARG
11	AK	121	ASP
11	AK	134	ILE
12	AL	29	ASN

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Mol	Chain	Res	Type
12	AL	33	PHE
12	AL	43	ALA
12	AL	47	LEU
12	AL	52	ALA
12	AL	54	ASP
12	AL	70	LYS
12	AL	71	SER
12	AL	94	ALA
12	AL	103	THR
12	AL	105	ASP
12	AL	116	LYS
12	AL	118	LYS
13	AM	30	SER
13	AM	34	VAL
13	AM	41	PRO
13	AM	55	LYS
13	AM	56	HIS
13	AM	57	LYS
13	AM	58	ASP
13	AM	60	ARG
13	AM	79	ARG
13	AM	80	LYS
13	AM	89	ASP
13	AM	90	LEU
13	AM	94	VAL
13	AM	96	ILE
14	AN	14	VAL
14	AN	15	ALA
14	AN	26	ASN
14	AN	27	ASN
14	AN	54	ARG
14	AN	74	ALA
14	AN	78	GLN
14	AN	102	GLY
14	AN	106	LYS
14	AN	115	PRO
14	AN	116	HIS
14	AN	117	ASN
15	AO	6	THR
15	AO	18	VAL
15	AO	19	ARG
15	AO	26	ALA

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Mol	Chain	Res	Type
15	AO	30	ALA
15	AO	46	LYS
15	AO	51	ALA
15	AO	62	SER
15	AO	73	GLU
15	AO	83	VAL
15	AO	87	GLY
15	AO	102	ARG
15	AO	103	GLY
15	AO	121	GLY
15	AO	127	GLU
16	AP	11	ARG
16	AP	14	ARG
16	AP	84	ILE
16	AP	101	GLN
16	AP	107	ALA
16	AP	123	ALA
16	AP	124	PRO
17	AQ	5	ALA
17	AQ	12	ARG
17	AQ	16	PHE
17	AQ	17	LYS
17	AQ	18	VAL
17	AQ	29	ARG
17	AQ	54	PRO
18	AR	3	ILE
18	AR	45	VAL
18	AR	47	LYS
18	AR	49	ASP
18	AR	88	ARG
19	AS	11	SER
19	AS	26	ARG
19	AS	44	THR
19	AS	63	GLY
19	AS	64	ALA
19	AS	66	PRO
20	AT	4	LYS
20	AT	12	SER
20	AT	14	LYS
20	AT	33	GLY
20	AT	34	LYS
20	AT	53	LEU

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Mol	Chain	Res	Type
20	AT	81	ARG
20	AT	104	LYS
21	AU	34	TYR
21	AU	44	LEU
21	AU	45	SER
21	AU	48	GLY
21	AU	50	ILE
21	AU	54	ARG
21	AU	59	SER
21	AU	79	LEU
21	AU	81	PHE
21	AU	87	ARG
22	AV	3	ARG
22	AV	9	VAL
22	AV	10	PHE
22	AV	12	ASP
22	AV	21	GLU
22	AV	24	ALA
22	AV	28	LYS
22	AV	32	LYS
22	AV	38	SER
22	AV	40	ILE
22	AV	42	PRO
22	AV	43	GLU
22	AV	45	VAL
22	AV	64	GLU
22	AV	65	ASN
22	AV	71	LEU
22	AV	78	ARG
22	AV	79	THR
22	AV	80	TYR
23	AW	68	LYS
23	AW	74	LYS
23	AW	95	ALA
23	AW	99	LEU
23	AW	105	SER
24	AX	6	ARG
24	AX	7	ARG
24	AX	8	THR
24	AX	9	ARG
24	AX	22	ARG
27	BC	20	TYR

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Mol	Chain	Res	Type
27	BC	22	ILE
27	BC	35	ALA
27	BC	37	PHE
27	BC	50	ASP
27	BC	54	SER
27	BC	61	THR
27	BC	67	GLY
27	BC	72	VAL
27	BC	161	ILE
27	BC	164	ARG
27	BC	167	LYS
27	BC	178	ALA
27	BC	217	THR
28	BD	10	THR
28	BD	17	THR
28	BD	18	VAL
28	BD	30	GLU
28	BD	33	LEU
28	BD	35	LYS
28	BD	49	ILE
28	BD	58	HIS
28	BD	59	LYS
28	BD	69	ARG
28	BD	73	VAL
28	BD	81	ALA
28	BD	83	GLU
28	BD	91	ARG
28	BD	98	VAL
28	BD	106	ILE
28	BD	107	ALA
28	BD	121	PRO
28	BD	123	ALA
28	BD	125	ILE
28	BD	134	ARG
28	BD	137	PRO
28	BD	138	VAL
28	BD	152	GLY
28	BD	153	ALA
28	BD	155	LEU
28	BD	157	ARG
28	BD	158	ALA
28	BD	162	SER

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Mol	Chain	Res	Type
28	BD	178	PRO
28	BD	179	SER
28	BD	189	CYS
28	BD	196	VAL
28	BD	217	ARG
28	BD	225	ALA
28	BD	237	GLU
28	BD	239	ARG
28	BD	241	PRO
28	BD	244	ARG
28	BD	247	ALA
28	BD	249	PRO
28	BD	257	LEU
28	BD	263	ARG
28	BD	264	LYS
28	BD	266	SER
28	BD	268	ARG
28	BD	270	ILE
28	BD	272	ALA
29	BE	16	ARG
29	BE	22	PRO
29	BE	32	PRO
29	BE	38	THR
29	BE	45	THR
29	BE	54	GLN
29	BE	57	LYS
29	BE	68	ALA
29	BE	70	ALA
29	BE	72	VAL
29	BE	75	VAL
29	BE	93	VAL
29	BE	94	GLU
29	BE	111	ARG
29	BE	117	MET
29	BE	122	PHE
29	BE	124	GLY
29	BE	128	SER
29	BE	134	ILE
29	BE	135	HIS
29	BE	138	PRO
29	BE	139	GLY
29	BE	145	LYS

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Mol	Chain	Res	Type
29	BE	155	LYS
29	BE	157	ALA
29	BE	168	MET
29	BE	173	VAL
29	BE	179	GLU
29	BE	180	ASN
29	BE	189	PRO
29	BE	191	PRO
29	BE	202	LYS
30	BF	14	PRO
30	BF	22	ALA
30	BF	30	PRO
30	BF	45	ARG
30	BF	52	LYS
30	BF	53	THR
30	BF	54	ARG
30	BF	57	VAL
30	BF	58	ALA
30	BF	59	TYR
30	BF	68	LYS
30	BF	72	ARG
30	BF	73	ALA
30	BF	74	ARG
30	BF	82	ILE
30	BF	84	VAL
30	BF	86	GLY
30	BF	89	VAL
30	BF	91	GLY
30	BF	99	TYR
30	BF	102	PRO
30	BF	129	PHE
30	BF	132	VAL
30	BF	158	THR
30	BF	168	ARG
30	BF	169	ASN
30	BF	178	PRO
30	BF	182	ASN
31	BG	26	GLN
31	BG	27	ASN
31	BG	28	VAL
31	BG	36	LYS
31	BG	43	LEU

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Mol	Chain	Res	Type
31	BG	47	LYS
31	BG	51	ARG
31	BG	61	ALA
31	BG	68	PRO
31	BG	71	THR
31	BG	76	SER
31	BG	78	SER
31	BG	79	ASN
31	BG	104	GLU
31	BG	111	LEU
31	BG	114	ILE
31	BG	116	ASP
31	BG	124	SER
31	BG	128	ARG
31	BG	131	TYR
31	BG	133	LEU
31	BG	136	ARG
31	BG	143	GLU
31	BG	148	MET
31	BG	154	GLY
31	BG	164	GLU
31	BG	172	LEU
31	BG	181	ARG
32	BH	6	ARG
32	BH	12	PRO
32	BH	13	LYS
32	BH	20	ALA
32	BH	41	MET
32	BH	109	PHE
32	BH	112	PRO
32	BH	118	PRO
32	BH	138	LYS
32	BH	151	ILE
32	BH	154	PRO
32	BH	155	SER
32	BH	157	TYR
32	BH	160	LYS
32	BH	164	TYR
32	BH	168	PRO
32	BH	173	PRO
33	BK	12	LEU
33	BK	14	ASP

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Mol	Chain	Res	Type
33	BK	15	VAL
33	BK	22	LYS
33	BK	23	PRO
33	BK	27	ARG
33	BK	33	ARG
33	BK	39	ALA
33	BK	83	ALA
33	BK	91	SER
33	BK	112	LYS
34	BL	17	ALA
34	BL	18	THR
34	BL	34	ILE
34	BL	50	ASP
34	BL	61	ALA
34	BL	66	THR
34	BL	67	PHE
34	BL	71	THR
34	BL	73	PRO
34	BL	74	ALA
34	BL	85	GLU
34	BL	89	HIS
34	BL	112	MET
34	BL	113	PRO
34	BL	114	ASP
34	BL	118	THR
35	BM	3	THR
35	BM	6	PRO
35	BM	9	VAL
35	BM	18	ALA
35	BM	23	LEU
35	BM	31	ALA
35	BM	34	LEU
35	BM	38	HIS
35	BM	45	ASN
35	BM	46	VAL
35	BM	47	ALA
35	BM	59	LYS
35	BM	63	THR
35	BM	65	LYS
35	BM	66	LYS
35	BM	68	GLU
35	BM	76	SER

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Mol	Chain	Res	Type
35	BM	78	TYR
35	BM	79	PRO
35	BM	83	LYS
35	BM	88	GLU
35	BM	127	ASP
35	BM	135	PRO
35	BM	136	GLU
36	BN	4	PRO
36	BN	11	ALA
36	BN	12	ASP
36	BN	26	LYS
36	BN	28	SER
36	BN	29	ASN
36	BN	30	ALA
36	BN	53	LYS
36	BN	63	VAL
36	BN	64	ARG
36	BN	65	THR
36	BN	66	LYS
36	BN	89	ASN
36	BN	90	GLN
36	BN	96	THR
36	BN	101	PRO
36	BN	103	ALA
36	BN	111	PHE
36	BN	121	VAL
37	BO	9	ASN
37	BO	14	LYS
37	BO	16	ARG
37	BO	30	THR
37	BO	34	GLY
37	BO	40	SER
37	BO	41	ARG
37	BO	42	SER
37	BO	44	GLY
37	BO	47	ASP
37	BO	48	PRO
37	BO	56	SER
37	BO	57	THR
37	BO	58	THR
37	BO	63	PRO
37	BO	67	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	BO	69	GLY
37	BO	70	GLN
37	BO	72	PRO
37	BO	84	ASN
37	BO	88	LEU
37	BO	96	THR
37	BO	102	ARG
37	BO	105	LEU
37	BO	106	LEU
37	BO	108	LYS
37	BO	122	PRO
37	BO	126	VAL
37	BO	127	ALA
38	BP	8	LYS
38	BP	11	LYS
38	BP	16	ARG
38	BP	20	ALA
38	BP	27	VAL
38	BP	28	ALA
38	BP	40	ALA
38	BP	59	ARG
38	BP	62	GLY
38	BP	64	ILE
38	BP	66	ILE
38	BP	67	ARG
38	BP	77	LYS
38	BP	78	PRO
38	BP	80	GLU
38	BP	81	VAL
38	BP	111	GLU
38	BP	125	LEU
38	BP	132	VAL
38	BP	137	TYR
38	BP	138	ASP
39	BQ	38	VAL
39	BQ	57	ARG
39	BQ	59	ASP
39	BQ	72	ASP
39	BQ	76	VAL
39	BQ	88	ARG
39	BQ	89	ASP
40	BR	5	THR

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Mol	Chain	Res	Type
40	BR	9	ARG
40	BR	31	SER
40	BR	32	LEU
40	BR	35	ILE
40	BR	43	GLU
40	BR	51	ALA
40	BR	53	SER
40	BR	56	LEU
40	BR	57	LYS
40	BR	58	LEU
40	BR	80	LEU
40	BR	97	ARG
41	BS	2	ASN
41	BS	5	ALA
41	BS	19	LEU
41	BS	20	PRO
41	BS	22	PHE
41	BS	45	PHE
41	BS	94	ALA
41	BS	96	ARG
41	BS	97	ALA
41	BS	98	LYS
41	BS	99	LEU
41	BS	100	TYR
41	BS	104	ASN
41	BS	105	LEU
41	BS	109	GLU
42	BT	3	ARG
42	BT	4	ALA
42	BT	5	LYS
42	BT	6	THR
42	BT	24	TYR
42	BT	31	SER
42	BT	53	ARG
42	BT	54	LYS
42	BT	75	ASN
43	BU	5	VAL
43	BU	6	LYS
43	BU	11	GLN
43	BU	13	ARG
43	BU	19	LYS
43	BU	22	VAL

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Mol	Chain	Res	Type
43	BU	25	LEU
43	BU	31	ALA
43	BU	50	PRO
43	BU	57	VAL
43	BU	66	ARG
43	BU	68	LYS
43	BU	69	LYS
43	BU	72	VAL
43	BU	73	SER
43	BU	82	ARG
43	BU	89	GLN
43	BU	100	ARG
44	BV	2	GLU
44	BV	9	TYR
44	BV	11	ARG
44	BV	12	ILE
44	BV	14	PRO
44	BV	25	ARG
44	BV	27	LYS
44	BV	41	LYS
44	BV	44	ALA
44	BV	64	MET
44	BV	75	TYR
44	BV	80	PRO
44	BV	92	ARG
45	BW	6	ASP
45	BW	33	LYS
45	BW	35	THR
45	BW	51	VAL
45	BW	83	VAL
45	BW	88	LYS
45	BW	89	ILE
45	BW	95	LEU
46	BX	10	GLY
46	BX	15	VAL
46	BX	21	LYS
46	BX	30	VAL
46	BX	33	LYS
46	BX	34	LYS
46	BX	42	VAL
46	BX	46	LYS
46	BX	47	LYS

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Mol	Chain	Res	Type
46	BX	56	PRO
46	BX	65	ALA
46	BX	66	PRO
46	BX	71	LYS
46	BX	72	VAL
46	BX	94	LYS
46	BX	95	LYS
46	BX	108	THR
47	BY	32	HIS
47	BY	42	VAL
47	BY	54	HIS
47	BY	57	ILE
47	BY	62	PRO
47	BY	94	GLU
47	BY	97	GLU
47	BY	108	PRO
47	BY	116	VAL
47	BY	141	VAL
47	BY	142	SER
47	BY	146	ILE
47	BY	153	SER
47	BY	155	LEU
48	BZ	2	ALA
48	BZ	7	LEU
48	BZ	10	THR
48	BZ	21	LEU
48	BZ	26	TYR
48	BZ	29	GLN
48	BZ	55	ARG
48	BZ	74	ARG
48	BZ	84	LEU
49	B1	12	SER
49	B1	13	PRO
49	B1	15	GLU
49	B1	34	ALA
49	B1	35	SER
49	B1	39	LEU
50	B2	13	ILE
50	B2	29	ARG
50	B2	39	ASP
50	B2	52	HIS
51	B3	3	GLU

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Mol	Chain	Res	Type
51	B3	6	HIS
51	B3	8	LYS
51	B3	13	ARG
51	B3	14	ILE
51	B3	21	VAL
51	B3	23	GLU
51	B3	39	CYS
51	B3	49	PHE
51	B3	51	ASP
51	B3	52	THR
51	B3	53	GLU
51	B3	55	ARG
51	B3	56	VAL
51	B3	61	ARG
52	B4	7	PRO
52	B4	9	LYS
52	B4	10	LYS
52	B4	11	THR
52	B4	14	ALA
52	B4	23	HIS
52	B4	36	CYS
52	B4	38	ALA
52	B4	42	PRO
52	B4	46	CYS
52	B4	50	GLY
52	B4	53	ALA
52	B4	58	LEU
53	B5	7	ILE
53	B5	17	LYS
53	B5	20	ASN
53	B5	21	TYR
53	B5	23	THR
53	B5	27	LYS
53	B5	28	ARG
53	B5	29	ASN
53	B5	30	THR
53	B5	36	LEU
53	B5	37	ARG
53	B5	38	LYS
53	B5	46	HIS
53	B5	49	HIS
53	B5	50	ARG

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Mol	Chain	Res	Type
53	B5	51	GLU
53	B5	53	LYS
54	B6	3	ARG
54	B6	4	THR
54	B6	10	ARG
54	B6	14	LYS
54	B6	18	PHE
54	B6	39	ARG
54	B6	41	ARG
54	B6	42	LEU
54	B6	47	ARG
55	B7	3	LYS
55	B7	4	MET
55	B7	5	LYS
55	B7	13	ARG
55	B7	18	ALA
55	B7	27	THR
55	B7	30	ARG
55	B7	34	TRP
55	B7	37	SER
55	B7	39	LYS
55	B7	52	LYS
55	B7	62	LEU
55	B7	63	PRO
56	B8	4	ARG
56	B8	10	ILE
56	B8	11	CYS
56	B8	12	ASP
56	B8	31	LYS
56	B8	33	LYS
5	AE	11	LEU
5	AE	25	ASN
5	AE	29	ALA
5	AE	37	ASN
5	AE	77	ALA
5	AE	88	ALA
5	AE	99	GLY
5	AE	160	ASP
5	AE	167	PRO
5	AE	169	LYS
5	AE	178	ARG
5	AE	181	PHE

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Mol	Chain	Res	Type
5	AE	188	ALA
5	AE	191	ASP
5	AE	228	GLY
5	AE	236	TYR
6	AF	4	LYS
6	AF	43	LEU
6	AF	64	VAL
6	AF	74	GLY
6	AF	158	GLY
6	AF	161	GLU
6	AF	176	HIS
6	AF	205	GLY
6	AF	206	GLU
7	AG	4	TYR
7	AG	73	ARG
7	AG	181	MET
7	AG	192	GLU
7	AG	200	GLU
8	AH	55	VAL
8	AH	73	ASN
8	AH	85	GLY
8	AH	146	ALA
9	AI	12	PRO
9	AI	56	PRO
9	AI	69	GLU
9	AI	85	VAL
10	AJ	4	ARG
10	AJ	8	GLU
10	AJ	15	ASP
10	AJ	52	GLU
10	AJ	53	LYS
10	AJ	55	GLY
10	AJ	80	VAL
10	AJ	81	GLY
10	AJ	93	PRO
10	AJ	112	PRO
11	AK	13	ILE
11	AK	23	SER
11	AK	31	PHE
11	AK	67	PRO
11	AK	100	ILE
11	AK	102	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
11	AK	128	GLY
12	AL	39	GLY
12	AL	44	VAL
12	AL	68	GLY
12	AL	106	ALA
12	AL	110	GLU
12	AL	111	ARG
13	AM	33	GLN
13	AM	36	GLY
13	AM	37	PRO
13	AM	54	PHE
13	AM	72	VAL
13	AM	82	ILE
14	AN	55	LYS
14	AN	89	ALA
14	AN	94	ALA
15	AO	7	ILE
15	AO	8	ASN
15	AO	20	LYS
15	AO	41	ARG
15	AO	48	PRO
15	AO	75	HIS
15	AO	76	ASN
15	AO	91	LYS
15	AO	92	ASP
15	AO	108	ALA
15	AO	112	ASP
15	AO	116	SER
16	AP	8	GLU
16	AP	46	LYS
16	AP	104	ARG
16	AP	118	ALA
16	AP	122	LYS
17	AQ	27	CYS
17	AQ	44	LEU
17	AQ	55	GLY
18	AR	62	GLN
19	AS	24	ALA
19	AS	33	ILE
19	AS	43	LYS
19	AS	52	ASP
19	AS	79	VAL

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Mol	Chain	Res	Type
20	AT	47	PRO
20	AT	94	ASN
20	AT	96	GLN
21	AU	21	LYS
21	AU	22	VAL
21	AU	49	LYS
21	AU	57	GLY
21	AU	75	ILE
22	AV	6	LYS
22	AV	35	SER
22	AV	55	LYS
22	AV	70	LYS
22	AV	73	GLU
23	AW	13	LEU
23	AW	50	GLU
23	AW	69	GLY
23	AW	92	LEU
23	AW	97	ALA
23	AW	102	GLY
23	AW	103	GLY
27	BC	15	ASP
27	BC	39	GLU
27	BC	49	ILE
27	BC	78	ALA
27	BC	80	GLY
27	BC	90	GLY
27	BC	119	VAL
27	BC	141	LYS
28	BD	21	PHE
28	BD	44	ASN
28	BD	52	ARG
28	BD	56	GLY
28	BD	62	TYR
28	BD	72	LYS
28	BD	88	ARG
28	BD	99	ASP
28	BD	109	ASP
28	BD	118	VAL
28	BD	127	VAL
28	BD	160	GLY
28	BD	187	GLY
28	BD	210	GLY

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Mol	Chain	Res	Type
28	BD	231	HIS
28	BD	234	GLY
28	BD	243	GLY
28	BD	248	SER
28	BD	250	TRP
28	BD	252	TRP
28	BD	256	GLY
28	BD	261	LYS
28	BD	262	ARG
29	BE	67	PHE
29	BE	95	ILE
29	BE	110	GLY
29	BE	115	GLY
29	BE	119	ARG
29	BE	123	ALA
29	BE	161	GLY
29	BE	162	ALA
29	BE	178	GLU
29	BE	204	ALA
30	BF	50	SER
30	BF	67	GLN
30	BF	69	HIS
30	BF	71	GLY
30	BF	85	GLY
30	BF	98	SER
30	BF	100	THR
30	BF	127	GLU
30	BF	130	ALA
30	BF	136	THR
30	BF	167	ALA
30	BF	172	TRP
30	BF	177	ALA
30	BF	184	TYR
30	BF	208	GLY
31	BG	20	ILE
31	BG	30	GLU
31	BG	48	GLU
31	BG	49	ASP
31	BG	86	MET
31	BG	119	GLY
31	BG	135	LEU
31	BG	140	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BG	163	ALA
32	BH	14	GLY
32	BH	47	GLU
32	BH	56	SER
32	BH	57	ASP
32	BH	76	VAL
32	BH	111	HIS
32	BH	120	GLY
32	BH	126	PRO
32	BH	136	ILE
33	BK	2	LYS
33	BK	40	THR
33	BK	86	THR
33	BK	102	SER
33	BK	111	PRO
33	BK	114	LEU
33	BK	134	PRO
34	BL	26	ALA
34	BL	31	GLY
34	BL	45	THR
34	BL	52	ILE
34	BL	86	LYS
34	BL	95	LYS
35	BM	17	ASP
35	BM	19	GLU
35	BM	48	MET
35	BM	98	VAL
35	BM	109	LYS
35	BM	110	GLY
35	BM	125	GLY
35	BM	126	PRO
36	BN	2	ILE
36	BN	10	VAL
36	BN	49	ARG
36	BN	67	LYS
36	BN	95	GLY
36	BN	110	GLY
36	BN	112	MET
36	BN	115	VAL
37	BO	7	ARG
37	BO	11	GLY
37	BO	12	ALA

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Mol	Chain	Res	Type
37	BO	21	ARG
37	BO	25	SER
37	BO	43	GLY
37	BO	66	GLY
37	BO	81	GLN
37	BO	87	ASP
37	BO	107	LYS
37	BO	116	GLY
37	BO	117	GLU
37	BO	123	LEU
37	BO	128	HIS
38	BP	24	GLY
38	BP	29	PHE
38	BP	39	PRO
38	BP	58	PHE
38	BP	68	ILE
38	BP	71	ASP
38	BP	79	LEU
38	BP	100	GLY
39	BQ	4	LEU
39	BQ	12	ARG
39	BQ	58	GLY
39	BQ	86	ARG
40	BR	14	VAL
40	BR	34	HIS
40	BR	36	TYR
40	BR	66	ALA
40	BR	72	ALA
40	BR	82	ILE
41	BS	3	ARG
41	BS	24	PRO
41	BS	28	VAL
41	BS	58	ASN
41	BS	65	LYS
41	BS	82	LEU
41	BS	107	ASP
41	BS	110	ILE
42	BT	7	GLY
42	BT	26	GLY
42	BT	32	PHE
42	BT	33	ARG
42	BT	62	ILE

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Mol	Chain	Res	Type
42	BT	93	LYS
42	BT	97	ASP
42	BT	100	VAL
42	BT	105	VAL
43	BU	8	GLY
43	BU	18	LEU
43	BU	46	VAL
44	BV	26	GLY
44	BV	30	GLU
44	BV	65	LEU
44	BV	67	ASP
45	BW	15	GLU
45	BW	34	ALA
45	BW	53	LYS
45	BW	63	LYS
45	BW	74	PRO
45	BW	84	ALA
45	BW	85	PRO
45	BW	90	GLU
46	BX	44	ILE
46	BX	54	LYS
46	BX	75	ILE
46	BX	77	PRO
46	BX	83	THR
46	BX	92	ASN
46	BX	105	ALA
46	BX	106	LEU
47	BY	50	GLN
47	BY	66	SER
47	BY	74	VAL
47	BY	77	ASP
47	BY	78	LYS
47	BY	79	ARG
47	BY	80	ARG
47	BY	131	ARG
47	BY	177	PRO
48	BZ	4	LYS
48	BZ	5	LYS
48	BZ	11	ARG
48	BZ	16	SER
48	BZ	67	VAL
48	BZ	73	GLY

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Mol	Chain	Res	Type
49	B1	11	LEU
50	B2	9	VAL
50	B2	17	LYS
50	B2	18	ASP
50	B2	28	LEU
51	B3	18	CYS
51	B3	41	PRO
51	B3	58	ARG
52	B4	18	ALA
52	B4	45	VAL
52	B4	48	GLU
52	B4	49	CYS
52	B4	59	GLU
53	B5	26	ASN
53	B5	31	PRO
53	B5	39	TYR
53	B5	47	THR
53	B5	52	VAL
54	B6	20	ALA
54	B6	34	ARG
55	B7	7	HIS
55	B7	29	LYS
55	B7	36	LYS
55	B7	41	ILE
56	B8	3	VAL
56	B8	5	ALA
56	B8	6	SER
56	B8	7	VAL
56	B8	9	ARG
5	AE	96	ARG
5	AE	168	THR
5	AE	200	ILE
5	AE	230	VAL
6	AF	5	ILE
6	AF	73	PRO
6	AF	81	GLY
6	AF	91	LEU
6	AF	180	ALA
6	AF	190	ARG
7	AG	51	PRO
7	AG	67	ILE
7	AG	69	GLY

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Mol	Chain	Res	Type
7	AG	117	ALA
7	AG	163	GLU
7	AG	195	ALA
7	AG	208	SER
8	AH	72	GLN
8	AH	95	ALA
9	AI	46	ARG
10	AJ	13	GLN
10	AJ	83	ALA
10	AJ	94	ARG
10	AJ	113	GLU
11	AK	6	ILE
11	AK	37	ARG
11	AK	44	PHE
11	AK	64	LYS
11	AK	69	ARG
11	AK	73	ASP
11	AK	76	PRO
12	AL	98	PRO
12	AL	114	TYR
12	AL	117	HIS
12	AL	120	ARG
14	AN	13	GLN
14	AN	76	GLY
14	AN	104	GLN
15	AO	22	SER
15	AO	24	VAL
15	AO	31	PRO
15	AO	42	THR
15	AO	96	VAL
15	AO	105	TYR
16	AP	43	THR
16	AP	66	LEU
16	AP	97	PRO
16	AP	121	LYS
17	AQ	9	LYS
17	AQ	15	LYS
17	AQ	60	SER
18	AR	6	GLU
18	AR	19	PRO
18	AR	44	LYS
18	AR	78	TYR

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Mol	Chain	Res	Type
19	AS	15	PRO
19	AS	54	GLU
20	AT	68	ARG
20	AT	102	GLY
21	AU	28	GLU
21	AU	82	THR
22	AV	25	LYS
23	AW	28	ALA
23	AW	34	LYS
23	AW	56	MET
23	AW	59	ALA
23	AW	88	VAL
23	AW	93	GLU
27	BC	69	GLY
27	BC	73	ARG
27	BC	106	GLY
27	BC	162	GLU
27	BC	205	LYS
28	BD	6	PHE
28	BD	15	PHE
28	BD	54	ARG
28	BD	63	ARG
28	BD	108	PRO
28	BD	122	ASP
28	BD	133	LEU
28	BD	209	ALA
28	BD	219	PRO
29	BE	63	LEU
29	BE	74	PRO
29	BE	109	LYS
29	BE	121	ASN
29	BE	126	PRO
29	BE	130	GLY
29	BE	149	ARG
29	BE	158	GLY
30	BF	62	ARG
30	BF	90	PHE
30	BF	97	TYR
30	BF	104	LYS
30	BF	126	VAL
30	BF	196	LEU
30	BF	199	TRP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	BG	7	LEU
31	BG	18	GLU
31	BG	80	PHE
31	BG	84	LYS
31	BG	85	GLY
31	BG	88	ILE
31	BG	106	LEU
31	BG	115	ARG
31	BG	117	PHE
31	BG	132	ASN
31	BG	144	ILE
31	BG	178	PHE
32	BH	7	LEU
32	BH	29	PRO
32	BH	67	LEU
32	BH	127	GLU
32	BH	153	LYS
32	BH	167	GLU
33	BK	8	PRO
33	BK	98	ALA
33	BK	125	GLU
34	BL	25	PRO
34	BL	101	TRP
35	BM	124	ALA
35	BM	138	LEU
36	BN	22	ILE
36	BN	88	ASN
36	BN	91	LEU
36	BN	97	ARG
37	BO	29	LYS
37	BO	89	ALA
38	BP	12	GLN
38	BP	30	GLY
38	BP	87	LYS
38	BP	108	GLY
38	BP	119	ARG
39	BQ	8	ARG
39	BQ	71	GLN
39	BQ	74	LYS
40	BR	59	LYS
40	BR	89	ARG
40	BR	108	GLY

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Mol	Chain	Res	Type
41	BS	71	GLY
41	BS	103	ARG
41	BS	106	SER
41	BS	115	ARG
42	BT	27	LEU
42	BT	73	GLY
43	BU	2	PHE
43	BU	45	THR
43	BU	81	TYR
44	BV	8	ARG
44	BV	42	ARG
44	BV	58	ALA
44	BV	89	ALA
46	BX	16	ALA
46	BX	19	LYS
46	BX	40	GLU
46	BX	48	ALA
46	BX	74	PRO
46	BX	82	PRO
47	BY	41	LEU
47	BY	82	ARG
47	BY	95	PRO
47	BY	112	ARG
47	BY	130	PRO
47	BY	165	VAL
47	BY	168	GLU
48	BZ	49	LYS
49	B1	36	ILE
49	B1	42	ASN
51	B3	22	ILE
51	B3	29	PRO
52	B4	8	LYS
52	B4	24	ALA
52	B4	31	VAL
52	B4	32	PRO
52	B4	55	ARG
53	B5	44	ARG
54	B6	11	LYS
54	B6	40	TRP
54	B6	46	VAL
55	B7	53	PRO
55	B7	57	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
55	B7	61	LEU
5	AE	27	LYS
5	AE	42	ILE
5	AE	53	ARG
5	AE	87	ARG
5	AE	143	GLU
5	AE	151	GLY
5	AE	174	VAL
5	AE	216	SER
5	AE	218	ALA
5	AE	226	ARG
6	AF	90	GLU
6	AF	174	PRO
7	AG	24	GLU
7	AG	36	ARG
7	AG	56	VAL
7	AG	70	ILE
7	AG	136	PRO
7	AG	153	ARG
9	AI	36	ARG
9	AI	43	LEU
9	AI	72	VAL
9	AI	83	ASP
9	AI	95	GLU
11	AK	41	ARG
11	AK	97	VAL
11	AK	115	SER
12	AL	42	ARG
12	AL	123	PRO
13	AM	61	GLU
13	AM	73	ASP
13	AM	78	ASN
15	AO	27	LEU
15	AO	61	THR
15	AO	77	LEU
16	AP	15	VAL
16	AP	27	LYS
16	AP	41	PRO
16	AP	67	GLU
16	AP	106	ASN
18	AR	14	GLU
20	AT	48	GLU

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Mol	Chain	Res	Type
20	AT	83	ASP
20	AT	95	TYR
21	AU	27	GLY
21	AU	41	LYS
22	AV	36	ARG
23	AW	15	ARG
23	AW	16	HIS
23	AW	45	GLN
23	AW	78	ALA
27	BC	14	VAL
27	BC	16	PRO
27	BC	109	ASP
27	BC	140	PRO
28	BD	28	GLU
28	BD	227	ASN
28	BD	271	ILE
29	BE	129	HIS
29	BE	143	ASN
29	BE	151	TYR
29	BE	159	HIS
29	BE	165	VAL
29	BE	188	VAL
30	BF	51	THR
30	BF	76	GLY
30	BF	111	ALA
30	BF	159	GLY
31	BG	32	PRO
31	BG	42	GLY
31	BG	66	GLN
31	BG	113	ARG
31	BG	134	GLY
31	BG	147	ASP
32	BH	80	SER
32	BH	105	LEU
32	BH	117	PRO
32	BH	131	VAL
32	BH	149	ARG
32	BH	156	ALA
33	BK	135	GLU
34	BL	6	ALA
34	BL	20	ALA
34	BL	82	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	BL	88	ALA
34	BL	102	GLU
35	BM	29	LYS
35	BM	44	PRO
35	BM	67	LEU
36	BN	17	ARG
36	BN	93	PRO
36	BN	104	ARG
37	BO	73	GLY
37	BO	115	LEU
37	BO	134	ALA
38	BP	14	ARG
38	BP	22	LYS
38	BP	42	ILE
38	BP	73	PRO
39	BQ	68	ARG
40	BR	68	GLN
40	BR	111	GLU
42	BT	91	ASP
42	BT	107	ALA
43	BU	15	GLU
44	BV	73	ALA
46	BX	22	GLY
46	BX	26	LYS
47	BY	20	ARG
47	BY	63	ASP
47	BY	156	LYS
48	BZ	15	ASP
49	B1	8	ALA
51	B3	11	PRO
51	B3	50	VAL
52	B4	5	PRO
53	B5	18	ARG
54	B6	35	ARG
5	AE	8	LYS
5	AE	23	ARG
5	AE	158	LEU
6	AF	14	ILE
6	AF	66	VAL
6	AF	101	LEU
6	AF	173	VAL
7	AG	107	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	AG	125	HIS
8	AH	69	VAL
8	AH	96	PRO
8	AH	109	ILE
8	AH	142	LEU
8	AH	150	ARG
9	AI	17	SER
10	AJ	37	ASN
12	AL	45	ALA
13	AM	12	ASP
14	AN	37	GLY
14	AN	121	PRO
15	AO	17	LYS
15	AO	120	TYR
16	AP	4	ILE
17	AQ	56	VAL
18	AR	51	HIS
19	AS	71	ARG
21	AU	51	LEU
22	AV	29	ARG
23	AW	11	SER
23	AW	35	THR
23	AW	49	ALA
23	AW	82	SER
23	AW	101	GLY
27	BC	143	GLY
27	BC	159	GLY
28	BD	74	GLY
29	BE	147	PRO
30	BF	24	LEU
30	BF	25	PRO
30	BF	81	PRO
31	BG	141	PHE
31	BG	146	TYR
32	BH	125	VAL
32	BH	152	ARG
33	BK	25	TYR
33	BK	94	ALA
34	BL	27	LEU
34	BL	46	ALA
34	BL	54	PRO
37	BO	22	GLY

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Mol	Chain	Res	Type
37	BO	26	GLY
38	BP	21	THR
38	BP	98	LYS
38	BP	107	ALA
39	BQ	85	PRO
40	BR	20	ARG
40	BR	61	ASN
40	BR	70	GLY
41	BS	18	ASP
41	BS	35	LYS
41	BS	39	ARG
41	BS	77	PRO
42	BT	60	LEU
42	BT	111	GLU
43	BU	29	PRO
45	BW	8	ILE
46	BX	45	VAL
46	BX	90	LEU
47	BY	46	LYS
48	BZ	17	GLN
48	BZ	83	PRO
49	B1	66	ASN
50	B2	11	SER
52	B4	12	SER
52	B4	47	PRO
53	B5	40	CYS
53	B5	48	VAL
5	AE	38	GLY
5	AE	193	ASP
5	AE	211	ILE
6	AF	109	PRO
9	AI	20	ALA
10	AJ	72	ARG
10	AJ	97	GLN
11	AK	72	PRO
13	AM	40	LEU
14	AN	39	PRO
14	AN	118	GLY
14	AN	123	LYS
16	AP	45	VAL
17	AQ	13	THR
20	AT	98	LEU

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Mol	Chain	Res	Type
21	AU	47	THR
27	BC	200	LYS
28	BD	13	ARG
28	BD	267	SER
30	BF	160	ASN
30	BF	170	LEU
31	BG	44	GLY
31	BG	94	LEU
33	BK	31	LEU
34	BL	72	PRO
34	BL	75	SER
34	BL	135	GLY
35	BM	24	GLY
35	BM	30	ILE
35	BM	41	ASP
36	BN	3	GLN
37	BO	92	GLU
37	BO	97	PRO
38	BP	19	GLY
38	BP	99	PRO
38	BP	115	MET
40	BR	55	ALA
40	BR	67	ARG
40	BR	79	ALA
41	BS	12	SER
41	BS	80	SER
44	BV	15	ARG
45	BW	32	PRO
46	BX	31	LEU
46	BX	86	ARG
47	BY	111	VAL
47	BY	172	ALA
49	B1	10	LYS
51	B3	38	LYS
52	B4	43	HIS
55	B7	14	VAL
13	AM	31	GLY
13	AM	39	PRO
14	AN	38	ASN
19	AS	51	VAL
21	AU	70	ILE
27	BC	226	PRO

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Mol	Chain	Res	Type
28	BD	79	VAL
28	BD	148	GLU
29	BE	146	THR
34	BL	49	GLY
34	BL	104	VAL
36	BN	102	VAL
42	BT	63	VAL
46	BX	98	VAL
51	B3	4	GLY
55	B7	45	GLY
6	AF	13	GLY
7	AG	40	PRO
8	AH	51	VAL
10	AJ	50	ILE
10	AJ	130	GLY
14	AN	40	ILE
16	AP	54	VAL
22	AV	11	VAL
27	BC	19	ILE
27	BC	65	PRO
39	BQ	73	VAL
40	BR	69	VAL
42	BT	110	VAL
46	BX	7	VAL
53	B5	41	PRO
5	AE	26	PRO
8	AH	52	PRO
10	AJ	135	VAL
11	AK	93	VAL
12	AL	81	ILE
12	AL	108	VAL
18	AR	82	ILE
28	BD	36	PRO
28	BD	145	VAL
32	BH	161	GLY
32	BH	169	VAL
34	BL	83	GLY
38	BP	88	GLY
38	BP	120	ILE
41	BS	4	GLY
41	BS	52	ILE
42	BT	23	GLY

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Mol	Chain	Res	Type
45	BW	73	ARG
47	BY	12	GLY
5	AE	239	VAL
6	AF	108	ASN
9	AI	65	VAL
17	AQ	38	GLY
21	AU	37	VAL
23	AW	47	GLY
28	BD	24	ILE
28	BD	165	ILE
39	BQ	106	GLY
40	BR	18	ILE
40	BR	85	VAL
41	BS	25	GLY
44	BV	87	PRO
46	BX	3	VAL
11	AK	129	VAL
23	AW	96	GLY
29	BE	39	PRO
33	BK	37	VAL
38	BP	47	ILE
38	BP	61	GLY

### 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 X-ray entries followed by that with respect to entries of similar resolution.

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	
5	AE	202/220 (92%)	135 (67%)	67 (33%)	0	2
6	AF	160/188 (85%)	123 (77%)	37 (23%)	1	8
7	AG	180/181 (99%)	127 (71%)	53 (29%)	0	4
8	AH	115/123 (94%)	75 (65%)	40 (35%)	0	2
9	AI	90/90 (100%)	64 (71%)	26 (29%)	0	4
10	AJ	126/127 (99%)	95 (75%)	31 (25%)	1	7
11	AK	119/119 (100%)	76 (64%)	43 (36%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	AL	98/99 (99%)	76 (78%)	22 (22%)	1	10
13	AM	88/92 (96%)	65 (74%)	23 (26%)	0	6
14	AN	90/99 (91%)	62 (69%)	28 (31%)	0	3
15	AO	104/109 (95%)	77 (74%)	27 (26%)	0	6
16	AP	100/101 (99%)	79 (79%)	21 (21%)	1	11
17	AQ	49/50 (98%)	37 (76%)	12 (24%)	1	7
18	AR	79/80 (99%)	56 (71%)	23 (29%)	0	4
19	AS	72/74 (97%)	48 (67%)	24 (33%)	0	2
20	AT	96/97 (99%)	71 (74%)	25 (26%)	0	6
21	AU	64/77 (83%)	41 (64%)	23 (36%)	0	1
22	AV	71/80 (89%)	57 (80%)	14 (20%)	1	13
23	AW	76/82 (93%)	56 (74%)	20 (26%)	0	6
24	AX	19/22 (86%)	13 (68%)	6 (32%)	0	3
27	BC	180/181 (99%)	151 (84%)	29 (16%)	3	22
28	BD	215/218 (99%)	151 (70%)	64 (30%)	0	3
29	BE	166/166 (100%)	102 (61%)	64 (39%)	0	0
30	BF	164/166 (99%)	104 (63%)	60 (37%)	0	1
31	BG	156/156 (100%)	112 (72%)	44 (28%)	0	4
32	BH	143/148 (97%)	97 (68%)	46 (32%)	0	3
33	BK	124/124 (100%)	87 (70%)	37 (30%)	0	3
34	BL	105/111 (95%)	85 (81%)	20 (19%)	2	14
35	BM	118/119 (99%)	80 (68%)	38 (32%)	0	3
36	BN	100/100 (100%)	65 (65%)	35 (35%)	0	2
37	BO	111/116 (96%)	64 (58%)	47 (42%)	0	0
38	BP	106/111 (96%)	55 (52%)	51 (48%)	0	0
39	BQ	100/101 (99%)	69 (69%)	31 (31%)	0	3
40	BR	87/88 (99%)	55 (63%)	32 (37%)	0	1
41	BS	105/127 (83%)	69 (66%)	36 (34%)	0	2
42	BT	93/94 (99%)	64 (69%)	29 (31%)	0	3
43	BU	82/82 (100%)	59 (72%)	23 (28%)	0	4
44	BV	90/92 (98%)	56 (62%)	34 (38%)	0	0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles		
45	BW	76/78 (97%)	55 (72%)	21 (28%)	0	4	
46	BX	91/91 (100%)	66 (72%)	25 (28%)	0	5	
47	BY	159/179 (89%)	110 (69%)	49 (31%)	0	3	
48	BZ	67/67 (100%)	52 (78%)	15 (22%)	1	10	
49	B1	62/62 (100%)	46 (74%)	16 (26%)	0	6	
50	B2	51/52 (98%)	34 (67%)	17 (33%)	0	2	
51	B3	63/63 (100%)	42 (67%)	21 (33%)	0	2	
52	B4	50/52 (96%)	30 (60%)	20 (40%)	0	0	
53	B5	48/52 (92%)	32 (67%)	16 (33%)	0	2	
54	B6	42/42 (100%)	30 (71%)	12 (29%)	0	4	
55	B7	54/55 (98%)	40 (74%)	14 (26%)	0	6	
56	B8	34/34 (100%)	25 (74%)	9 (26%)	0	5	
All	All	5040/5237 (96%)	3520 (70%)	1520 (30%)	0	3	

All (1520) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
5	AE	9	GLU
5	AE	11	LEU
5	AE	12	GLU
5	AE	15	VAL
5	AE	17	PHE
5	AE	19	HIS
5	AE	20	GLU
5	AE	21	ARG
5	AE	23	ARG
5	AE	25	ASN
5	AE	28	PHE
5	AE	33	TYR
5	AE	36	ARG
5	AE	44	LEU
5	AE	48	MET
5	AE	52	GLU
5	AE	53	ARG
5	AE	56	ARG
5	AE	57	PHE
5	AE	61	LEU
5	AE	64	ARG

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Mol	Chain	Res	Type
5	AE	68	ILE
5	AE	74	LYS
5	AE	75	LYS
5	AE	92	TYR
5	AE	101	MET
5	AE	102	LEU
5	AE	104	ASN
5	AE	105	PHE
5	AE	111	ARG
5	AE	114	ARG
5	AE	118	LEU
5	AE	122	PHE
5	AE	130	ARG
5	AE	132	LYS
5	AE	139	LYS
5	AE	147	LYS
5	AE	148	TYR
5	AE	149	LEU
5	AE	150	SER
5	AE	152	PHE
5	AE	153	ARG
5	AE	154	LEU
5	AE	158	LEU
5	AE	160	ASP
5	AE	162	ILE
5	AE	163	PHE
5	AE	169	LYS
5	AE	172	ILE
5	AE	176	GLU
5	AE	181	PHE
5	AE	182	ILE
5	AE	185	ILE
5	AE	187	LEU
5	AE	189	ASP
5	AE	194	PRO
5	AE	202	PRO
5	AE	204	ASN
5	AE	208	ILE
5	AE	209	ARG
5	AE	215	LEU
5	AE	217	ARG
5	AE	224	GLN

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Mol	Chain	Res	Type
5	AE	226	ARG
5	AE	232	PRO
5	AE	235	SER
5	AE	238	LEU
6	AF	4	LYS
6	AF	5	ILE
6	AF	10	PHE
6	AF	11	ARG
6	AF	15	THR
6	AF	16	ARG
6	AF	19	GLU
6	AF	23	TYR
6	AF	29	TYR
6	AF	30	ARG
6	AF	34	LEU
6	AF	38	ARG
6	AF	48	TYR
6	AF	59	ARG
6	AF	82	GLU
6	AF	87	LEU
6	AF	91	LEU
6	AF	95	THR
6	AF	97	LYS
6	AF	105	GLU
6	AF	107	GLN
6	AF	111	LEU
6	AF	128	PHE
6	AF	139	GLN
6	AF	142	MET
6	AF	151	VAL
6	AF	162	GLN
6	AF	165	THR
6	AF	172	ARG
6	AF	176	HIS
6	AF	178	LEU
6	AF	186	PHE
6	AF	188	LEU
6	AF	193	TYR
6	AF	196	LEU
6	AF	204	LEU
6	AF	206	GLU
7	AG	3	ARG

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Mol	Chain	Res	Type
7	AG	9	CYS
7	AG	10	ARG
7	AG	13	ARG
7	AG	14	ARG
7	AG	20	TYR
7	AG	24	GLU
7	AG	26	CYS
7	AG	27	TYR
7	AG	29	PRO
7	AG	31	CYS
7	AG	33	MET
7	AG	34	GLU
7	AG	38	TYR
7	AG	47	ARG
7	AG	51	PRO
7	AG	58	LEU
7	AG	60	GLU
7	AG	61	LYS
7	AG	62	GLN
7	AG	63	LYS
7	AG	64	LEU
7	AG	73	ARG
7	AG	75	PHE
7	AG	78	LEU
7	AG	83	SER
7	AG	93	PHE
7	AG	96	LEU
7	AG	101	LEU
7	AG	107	ARG
7	AG	114	ARG
7	AG	120	LEU
7	AG	131	ARG
7	AG	138	TYR
7	AG	139	ARG
7	AG	142	PRO
7	AG	146	ILE
7	AG	150	GLU
7	AG	154	ASN
7	AG	165	MET
7	AG	175	SER
7	AG	176	LEU
7	AG	181	MET

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Mol	Chain	Res	Type
7	AG	185	PHE
7	AG	186	LEU
7	AG	188	LEU
7	AG	191	ARG
7	AG	193	ASP
7	AG	200	GLU
7	AG	202	LEU
7	AG	204	ILE
7	AG	206	PHE
7	AG	209	ARG
8	AH	5	ASP
8	AH	6	PHE
8	AH	8	GLU
8	AH	11	ILE
8	AH	12	LEU
8	AH	13	ILE
8	AH	15	ARG
8	AH	16	THR
8	AH	19	MET
8	AH	20	GLN
8	AH	25	ARG
8	AH	26	PHE
8	AH	27	ARG
8	AH	28	PHE
8	AH	41	VAL
8	AH	53	LEU
8	AH	56	GLN
8	AH	60	TYR
8	AH	63	ARG
8	AH	68	GLU
8	AH	73	ASN
8	AH	78	HIS
8	AH	79	GLU
8	AH	81	GLU
8	AH	89	ILE
8	AH	90	VAL
8	AH	98	THR
8	AH	101	ILE
8	AH	110	LEU
8	AH	111	GLU
8	AH	112	LEU
8	AH	115	VAL

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Mol	Chain	Res	Type
8	AH	117	ASP
8	AH	119	LEU
8	AH	127	ASN
8	AH	128	PRO
8	AH	131	ILE
8	AH	139	LEU
8	AH	141	GLN
8	AH	150	ARG
9	AI	4	TYR
9	AI	8	ILE
9	AI	10	LEU
9	AI	14	LEU
9	AI	15	ASP
9	AI	19	LEU
9	AI	28	ARG
9	AI	36	ARG
9	AI	41	GLU
9	AI	42	GLU
9	AI	48	LEU
9	AI	50	TYR
9	AI	55	ASP
9	AI	57	GLN
9	AI	60	PHE
9	AI	64	GLN
9	AI	67	MET
9	AI	69	GLU
9	AI	70	ASP
9	AI	73	ASN
9	AI	74	ASP
9	AI	82	ARG
9	AI	83	ASP
9	AI	94	GLN
9	AI	95	GLU
9	AI	98	LEU
10	AJ	6	ARG
10	AJ	10	ARG
10	AJ	12	LEU
10	AJ	14	PRO
10	AJ	16	LEU
10	AJ	32	ARG
10	AJ	33	ASP
10	AJ	36	LYS

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Mol	Chain	Res	Type
10	AJ	37	ASN
10	AJ	45	ASP
10	AJ	47	CYS
10	AJ	56	GLN
10	AJ	72	ARG
10	AJ	74	GLU
10	AJ	89	MET
10	AJ	90	GLU
10	AJ	91	VAL
10	AJ	92	SER
10	AJ	103	TRP
10	AJ	106	GLN
10	AJ	113	GLU
10	AJ	124	LEU
10	AJ	136	LYS
10	AJ	139	GLU
10	AJ	143	ARG
10	AJ	144	MET
10	AJ	146	GLU
10	AJ	149	ARG
10	AJ	153	HIS
10	AJ	155	ARG
10	AJ	156	TRP
11	AK	3	THR
11	AK	4	ASP
11	AK	6	ILE
11	AK	8	ASP
11	AK	12	ARG
11	AK	14	ARG
11	AK	18	ARG
11	AK	23	SER
11	AK	24	THR
11	AK	26	VAL
11	AK	36	LEU
11	AK	37	ARG
11	AK	38	ILE
11	AK	39	LEU
11	AK	41	ARG
11	AK	45	ILE
11	AK	49	GLU
11	AK	50	ARG
11	AK	52	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
11	AK	54	ASP
11	AK	58	TYR
11	AK	63	LEU
11	AK	65	TYR
11	AK	70	GLN
11	AK	73	ASP
11	AK	76	PRO
11	AK	83	ILE
11	AK	84	ARG
11	AK	88	LYS
11	AK	92	ARG
11	AK	98	LYS
11	AK	103	VAL
11	AK	107	LEU
11	AK	109	ILE
11	AK	112	LEU
11	AK	120	THR
11	AK	122	ARG
11	AK	123	GLU
11	AK	125	ARG
11	AK	126	LYS
11	AK	127	LEU
11	AK	135	CYS
11	AK	136	GLU
12	AL	4	TYR
12	AL	23	ASN
12	AL	26	VAL
12	AL	33	PHE
12	AL	37	PHE
12	AL	48	GLU
12	AL	51	ARG
12	AL	59	PHE
12	AL	64	THR
12	AL	70	LYS
12	AL	75	ASP
12	AL	78	LYS
12	AL	79	LEU
12	AL	101	PHE
12	AL	102	LEU
12	AL	103	THR
12	AL	110	GLU
12	AL	116	LYS

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Mol	Chain	Res	Type
12	AL	121	ARG
12	AL	124	GLN
12	AL	126	SER
12	AL	127	LYS
13	AM	3	LYS
13	AM	4	ILE
13	AM	5	ARG
13	AM	8	LEU
13	AM	9	ARG
13	AM	11	PHE
13	AM	14	LYS
13	AM	33	GLN
13	AM	45	ARG
13	AM	47	PHE
13	AM	54	PHE
13	AM	60	ARG
13	AM	62	HIS
13	AM	63	PHE
13	AM	65	LEU
13	AM	73	ASP
13	AM	76	ASN
13	AM	78	ASN
13	AM	79	ARG
13	AM	81	THR
13	AM	85	LEU
13	AM	95	GLU
13	AM	100	THR
14	AN	18	ARG
14	AN	21	ILE
14	AN	22	HIS
14	AN	38	ASN
14	AN	39	PRO
14	AN	40	ILE
14	AN	41	THR
14	AN	42	TRP
14	AN	50	TYR
14	AN	51	LYS
14	AN	54	ARG
14	AN	55	LYS
14	AN	62	GLN
14	AN	63	LEU
14	AN	77	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
14	AN	78	GLN
14	AN	80	VAL
14	AN	87	THR
14	AN	91	ARG
14	AN	95	ILE
14	AN	99	GLN
14	AN	104	GLN
14	AN	107	SER
14	AN	109	VAL
14	AN	110	ASP
14	AN	116	HIS
14	AN	121	PRO
14	AN	126	ARG
15	AO	7	ILE
15	AO	16	GLU
15	AO	23	LYS
15	AO	33	ARG
15	AO	36	VAL
15	AO	37	CYS
15	AO	38	THR
15	AO	41	ARG
15	AO	52	LEU
15	AO	53	ARG
15	AO	60	LEU
15	AO	61	THR
15	AO	64	TYR
15	AO	65	GLU
15	AO	67	THR
15	AO	70	ILE
15	AO	73	GLU
15	AO	75	HIS
15	AO	76	ASN
15	AO	92	ASP
15	AO	93	LEU
15	AO	98	TYR
15	AO	100	ILE
15	AO	101	VAL
15	AO	102	ARG
15	AO	110	VAL
15	AO	126	LYS
16	AP	47	ASP
16	AP	48	LEU

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Mol	Chain	Res	Type
16	AP	61	GLU
16	AP	64	TRP
16	AP	66	LEU
16	AP	71	ARG
16	AP	73	GLU
16	AP	77	ASN
16	AP	80	ARG
16	AP	81	LEU
16	AP	82	MET
16	AP	83	ASP
16	AP	87	TYR
16	AP	88	ARG
16	AP	101	GLN
16	AP	108	ARG
16	AP	110	ARG
16	AP	116	THR
16	AP	117	VAL
16	AP	121	LYS
16	AP	124	PRO
17	AQ	7	ILE
17	AQ	21	TYR
17	AQ	22	THR
17	AQ	24	CYS
17	AQ	26	ARG
17	AQ	34	TYR
17	AQ	36	PHE
17	AQ	37	PHE
17	AQ	40	CYS
17	AQ	43	CYS
17	AQ	45	ARG
17	AQ	60	SER
18	AR	4	THR
18	AR	5	LYS
18	AR	11	VAL
18	AR	14	GLU
18	AR	17	ARG
18	AR	26	GLU
18	AR	32	LEU
18	AR	33	THR
18	AR	34	LEU
18	AR	35	ARG
18	AR	38	ARG

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Mol	Chain	Res	Type
18	AR	40	SER
18	AR	41	GLU
18	AR	42	HIS
18	AR	44	LYS
18	AR	49	ASP
18	AR	54	ARG
18	AR	56	LEU
18	AR	63	ARG
18	AR	64	ARG
18	AR	70	LEU
18	AR	76	GLU
18	AR	77	ARG
19	AS	3	LYS
19	AS	4	ILE
19	AS	6	LEU
19	AS	8	ARG
19	AS	9	PHE
19	AS	16	HIS
19	AS	21	VAL
19	AS	22	THR
19	AS	27	LYS
19	AS	32	TYR
19	AS	34	GLU
19	AS	39	TYR
19	AS	48	TRP
19	AS	53	VAL
19	AS	58	TYR
19	AS	59	TRP
19	AS	62	VAL
19	AS	65	GLN
19	AS	66	PRO
19	AS	68	ASP
19	AS	69	THR
19	AS	72	ARG
19	AS	74	LEU
19	AS	80	PHE
20	AT	6	LEU
20	AT	7	THR
20	AT	12	SER
20	AT	21	VAL
20	AT	31	LEU
20	AT	36	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	AT	39	SER
20	AT	40	LYS
20	AT	45	HIS
20	AT	46	ASP
20	AT	48	GLU
20	AT	51	TYR
20	AT	52	LYS
20	AT	57	VAL
20	AT	58	GLU
20	AT	60	ILE
20	AT	62	SER
20	AT	63	ARG
20	AT	68	ARG
20	AT	83	ASP
20	AT	84	LEU
20	AT	86	GLU
20	AT	93	GLN
20	AT	96	GLN
20	AT	101	ARG
21	AU	17	SER
21	AU	18	ARG
21	AU	22	VAL
21	AU	25	THR
21	AU	28	GLU
21	AU	34	TYR
21	AU	38	GLU
21	AU	43	PHE
21	AU	44	LEU
21	AU	49	LYS
21	AU	50	ILE
21	AU	53	ARG
21	AU	55	ARG
21	AU	62	GLU
21	AU	63	GLN
21	AU	72	ARG
21	AU	74	ARG
21	AU	76	LEU
21	AU	78	LEU
21	AU	79	LEU
21	AU	81	PHE
21	AU	83	GLU
21	AU	86	VAL

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Mol	Chain	Res	Type
22	AV	12	ASP
22	AV	17	GLU
22	AV	18	LYS
22	AV	25	LYS
22	AV	33	THR
22	AV	36	ARG
22	AV	37	ARG
22	AV	41	VAL
22	AV	42	PRO
22	AV	43	GLU
22	AV	61	TYR
22	AV	64	GLU
22	AV	66	MET
22	AV	81	ARG
23	AW	9	ASN
23	AW	13	LEU
23	AW	18	GLN
23	AW	19	SER
23	AW	26	ASN
23	AW	36	LEU
23	AW	42	GLN
23	AW	43	LEU
23	AW	48	LYS
23	AW	55	ILE
23	AW	56	MET
23	AW	61	SER
23	AW	72	LEU
23	AW	73	HIS
23	AW	79	ARG
23	AW	82	SER
23	AW	84	LEU
23	AW	87	LYS
23	AW	91	LEU
23	AW	104	LEU
24	AX	6	ARG
24	AX	7	ARG
24	AX	8	THR
24	AX	9	ARG
24	AX	10	ARG
24	AX	13	ILE
27	BC	8	ARG
27	BC	20	TYR

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Mol	Chain	Res	Type
27	BC	29	VAL
27	BC	46	LYS
27	BC	52	ARG
27	BC	55	ASP
27	BC	58	VAL
27	BC	59	ARG
27	BC	66	HIS
27	BC	68	LEU
27	BC	74	VAL
27	BC	81	GLU
27	BC	92	ASP
27	BC	97	GLU
27	BC	109	ASP
27	BC	125	SER
27	BC	137	LEU
27	BC	154	ARG
27	BC	160	ARG
27	BC	161	ILE
27	BC	164	ARG
27	BC	166	ASP
27	BC	180	PHE
27	BC	190	ARG
27	BC	192	PHE
27	BC	200	LYS
27	BC	208	PHE
27	BC	213	TYR
27	BC	222	VAL
28	BD	6	PHE
28	BD	12	SER
28	BD	20	ASP
28	BD	31	LYS
28	BD	33	LEU
28	BD	37	LEU
28	BD	39	LYS
28	BD	40	THR
28	BD	43	ARG
28	BD	46	GLN
28	BD	48	ARG
28	BD	49	ILE
28	BD	50	THR
28	BD	52	ARG
28	BD	53	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
28	BD	59	LYS
28	BD	63	ARG
28	BD	69	ARG
28	BD	71	ASP
28	BD	73	VAL
28	BD	75	ILE
28	BD	84	TYR
28	BD	87	ASN
28	BD	88	ARG
28	BD	91	ARG
28	BD	92	ILE
28	BD	94	LEU
28	BD	96	HIS
28	BD	101	GLU
28	BD	106	ILE
28	BD	108	PRO
28	BD	112	GLN
28	BD	113	VAL
28	BD	134	ARG
28	BD	146	GLU
28	BD	147	LEU
28	BD	161	THR
28	BD	169	GLU
28	BD	171	ASP
28	BD	173	VAL
28	BD	176	ARG
28	BD	177	LEU
28	BD	186	HIS
28	BD	188	GLU
28	BD	190	TYR
28	BD	200	ASP
28	BD	201	HIS
28	BD	206	LEU
28	BD	212	SER
28	BD	214	TRP
28	BD	215	LEU
28	BD	227	ASN
28	BD	233	HIS
28	BD	239	ARG
28	BD	241	PRO
28	BD	249	PRO
28	BD	253	GLN

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Mol	Chain	Res	Type
28	BD	258	LYS
28	BD	260	ARG
28	BD	264	LYS
28	BD	270	ILE
28	BD	273	ARG
28	BD	274	ARG
28	BD	276	LYS
29	BE	1	MET
29	BE	2	LYS
29	BE	4	ILE
29	BE	5	LEU
29	BE	7	VAL
29	BE	8	LYS
29	BE	11	MET
29	BE	12	THR
29	BE	13	ARG
29	BE	14	ILE
29	BE	17	ASP
29	BE	22	PRO
29	BE	25	VAL
29	BE	31	CYS
29	BE	35	GLN
29	BE	41	LYS
29	BE	48	GLN
29	BE	49	LEU
29	BE	51	PHE
29	BE	52	LEU
29	BE	58	ARG
29	BE	62	PRO
29	BE	66	HIS
29	BE	67	PHE
29	BE	75	VAL
29	BE	78	LEU
29	BE	80	GLU
29	BE	85	ASN
29	BE	92	THR
29	BE	101	ARG
29	BE	105	THR
29	BE	108	SER
29	BE	111	ARG
29	BE	116	VAL
29	BE	118	LYS

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Mol	Chain	Res	Type
29	BE	119	ARG
29	BE	120	TRP
29	BE	121	ASN
29	BE	127	ASP
29	BE	132	HIS
29	BE	134	ILE
29	BE	135	HIS
29	BE	136	ARG
29	BE	143	ASN
29	BE	147	PRO
29	BE	149	ARG
29	BE	150	VAL
29	BE	152	LYS
29	BE	154	LYS
29	BE	155	LYS
29	BE	164	ARG
29	BE	168	MET
29	BE	170	LEU
29	BE	171	GLU
29	BE	173	VAL
29	BE	176	ILE
29	BE	179	GLU
29	BE	183	LEU
29	BE	185	LYS
29	BE	192	ASN
29	BE	195	LEU
29	BE	199	ARG
29	BE	200	GLU
29	BE	202	LYS
30	BF	14	PRO
30	BF	17	ARG
30	BF	19	GLU
30	BF	23	ASP
30	BF	27	GLU
30	BF	30	PRO
30	BF	31	HIS
30	BF	34	TRP
30	BF	36	VAL
30	BF	38	ARG
30	BF	39	TRP
30	BF	40	GLN
30	BF	41	LEU

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Mol	Chain	Res	Type
30	BF	46	ARG
30	BF	48	THR
30	BF	59	TYR
30	BF	64	ILE
30	BF	67	GLN
30	BF	70	THR
30	BF	74	ARG
30	BF	75	HIS
30	BF	77	ASP
30	BF	78	ILE
30	BF	82	ILE
30	BF	83	PHE
30	BF	95	ARG
30	BF	97	TYR
30	BF	99	TYR
30	BF	102	PRO
30	BF	106	ARG
30	BF	108	LYS
30	BF	110	LEU
30	BF	117	ARG
30	BF	119	ARG
30	BF	120	GLU
30	BF	122	LYS
30	BF	124	LEU
30	BF	133	ASN
30	BF	135	LYS
30	BF	137	LYS
30	BF	139	PHE
30	BF	140	LEU
30	BF	155	LEU
30	BF	157	VAL
30	BF	164	ARG
30	BF	168	ARG
30	BF	169	ASN
30	BF	170	LEU
30	BF	172	TRP
30	BF	175	THR
30	BF	178	PRO
30	BF	181	LEU
30	BF	184	TYR
30	BF	185	ASP
30	BF	188	ARG

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Mol	Chain	Res	Type
30	BF	190	GLU
30	BF	197	ASP
30	BF	200	GLU
30	BF	202	PHE
30	BF	203	GLN
31	BG	3	LEU
31	BG	8	LYS
31	BG	9	ARG
31	BG	12	TYR
31	BG	14	GLU
31	BG	18	GLU
31	BG	20	ILE
31	BG	21	ARG
31	BG	25	TYR
31	BG	32	PRO
31	BG	33	ARG
31	BG	43	LEU
31	BG	51	ARG
31	BG	54	GLU
31	BG	68	PRO
31	BG	77	ILE
31	BG	79	ASN
31	BG	82	LEU
31	BG	86	MET
31	BG	91	ARG
31	BG	94	LEU
31	BG	95	ARG
31	BG	97	ASP
31	BG	101	ILE
31	BG	102	PHE
31	BG	106	LEU
31	BG	107	LEU
31	BG	108	ASN
31	BG	109	VAL
31	BG	114	ILE
31	BG	121	ASN
31	BG	123	ASN
31	BG	126	ASP
31	BG	128	ARG
31	BG	130	ASN
31	BG	131	TYR
31	BG	133	LEU

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Mol	Chain	Res	Type
31	BG	135	LEU
31	BG	139	LEU
31	BG	143	GLU
31	BG	146	TYR
31	BG	174	GLU
31	BG	176	LEU
31	BG	181	ARG
32	BH	7	LEU
32	BH	17	VAL
32	BH	18	GLU
32	BH	23	ARG
32	BH	25	LYS
32	BH	29	PRO
32	BH	32	GLU
32	BH	35	VAL
32	BH	37	VAL
32	BH	40	GLU
32	BH	46	GLU
32	BH	50	VAL
32	BH	51	ARG
32	BH	68	THR
32	BH	69	ARG
32	BH	74	ASN
32	BH	77	LYS
32	BH	83	TYR
32	BH	85	LYS
32	BH	86	GLU
32	BH	90	LYS
32	BH	94	TYR
32	BH	95	ARG
32	BH	98	LEU
32	BH	103	LEU
32	BH	104	GLU
32	BH	105	LEU
32	BH	107	VAL
32	BH	109	PHE
32	BH	111	HIS
32	BH	115	VAL
32	BH	116	GLU
32	BH	132	ARG
32	BH	136	ILE
32	BH	137	ASP

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Mol	Chain	Res	Type
32	BH	139	GLN
32	BH	143	GLN
32	BH	147	ASN
32	BH	151	ILE
32	BH	158	HIS
32	BH	162	ILE
32	BH	163	TYR
32	BH	164	TYR
32	BH	167	GLU
32	BH	168	PRO
32	BH	172	LYS
33	BK	1	MET
33	BK	5	LEU
33	BK	6	LEU
33	BK	10	GLU
33	BK	11	ASN
33	BK	14	ASP
33	BK	20	ASP
33	BK	33	ARG
33	BK	43	ASN
33	BK	45	LYS
33	BK	48	GLU
33	BK	58	LEU
33	BK	60	GLU
33	BK	66	GLU
33	BK	70	LYS
33	BK	75	LEU
33	BK	76	THR
33	BK	77	LEU
33	BK	78	THR
33	BK	81	VAL
33	BK	82	ARG
33	BK	99	GLU
33	BK	101	LEU
33	BK	103	ARG
33	BK	114	LEU
33	BK	125	GLU
33	BK	126	TYR
33	BK	128	LEU
33	BK	130	TYR
33	BK	131	LYS
33	BK	135	GLU

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Mol	Chain	Res	Type
33	BK	140	LEU
33	BK	142	VAL
33	BK	144	VAL
33	BK	145	VAL
33	BK	147	GLN
33	BK	148	GLU
34	BL	4	VAL
34	BL	10	LEU
34	BL	29	GLN
34	BL	37	PHE
34	BL	54	PRO
34	BL	58	THR
34	BL	64	SER
34	BL	66	THR
34	BL	73	PRO
34	BL	77	LEU
34	BL	91	PRO
34	BL	101	TRP
34	BL	103	GLN
34	BL	105	LEU
34	BL	106	GLU
34	BL	113	PRO
34	BL	119	ASP
34	BL	120	LEU
34	BL	133	SER
34	BL	134	MET
35	BM	3	THR
35	BM	7	LYS
35	BM	8	GLN
35	BM	9	VAL
35	BM	12	ARG
35	BM	15	LEU
35	BM	16	ILE
35	BM	19	GLU
35	BM	22	THR
35	BM	23	LEU
35	BM	25	ARG
35	BM	28	THR
35	BM	32	THR
35	BM	38	HIS
35	BM	42	TRP
35	BM	43	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BM	45	ASN
35	BM	67	LEU
35	BM	69	GLN
35	BM	72	TYR
35	BM	75	TYR
35	BM	76	SER
35	BM	78	TYR
35	BM	79	PRO
35	BM	88	GLU
35	BM	89	LYS
35	BM	90	MET
35	BM	91	LEU
35	BM	101	HIS
35	BM	109	LYS
35	BM	112	LEU
35	BM	116	LEU
35	BM	120	LEU
35	BM	123	TYR
35	BM	127	ASP
35	BM	134	ARG
35	BM	136	GLU
35	BM	139	GLU
36	BN	2	ILE
36	BN	3	GLN
36	BN	5	GLN
36	BN	6	THR
36	BN	7	TYR
36	BN	8	LEU
36	BN	13	ASN
36	BN	23	ARG
36	BN	28	SER
36	BN	32	TYR
36	BN	37	ASP
36	BN	39	ILE
36	BN	45	GLU
36	BN	47	ILE
36	BN	49	ARG
36	BN	52	VAL
36	BN	56	ASP
36	BN	58	VAL
36	BN	59	LYS
36	BN	64	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BN	67	LYS
36	BN	69	VAL
36	BN	77	ILE
36	BN	78	ARG
36	BN	80	ASP
36	BN	88	ASN
36	BN	89	ASN
36	BN	92	GLU
36	BN	94	ARG
36	BN	96	THR
36	BN	97	ARG
36	BN	99	PHE
36	BN	101	PRO
36	BN	106	LEU
36	BN	117	LEU
37	BO	7	ARG
37	BO	9	ASN
37	BO	13	ASN
37	BO	17	LYS
37	BO	18	ARG
37	BO	29	LYS
37	BO	30	THR
37	BO	33	ARG
37	BO	40	SER
37	BO	45	LEU
37	BO	46	LYS
37	BO	48	PRO
37	BO	49	ARG
37	BO	50	ARG
37	BO	51	PHE
37	BO	55	ARG
37	BO	60	MET
37	BO	63	PRO
37	BO	64	LYS
37	BO	65	ARG
37	BO	67	MET
37	BO	68	GLN
37	BO	70	GLN
37	BO	75	ILE
37	BO	77	ARG
37	BO	79	ARG
37	BO	84	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	BO	98	GLU
37	BO	99	LEU
37	BO	100	LEU
37	BO	105	LEU
37	BO	108	LYS
37	BO	110	TYR
37	BO	111	ARG
37	BO	114	ILE
37	BO	115	LEU
37	BO	117	GLU
37	BO	122	PRO
37	BO	124	LYS
37	BO	126	VAL
37	BO	128	HIS
37	BO	130	PHE
37	BO	135	LEU
37	BO	137	LYS
37	BO	138	LEU
37	BO	147	LEU
37	BO	149	GLU
38	BP	6	ARG
38	BP	7	MET
38	BP	9	TYR
38	BP	10	ARG
38	BP	12	GLN
38	BP	14	ARG
38	BP	16	ARG
38	BP	18	LYS
38	BP	22	LYS
38	BP	25	ASP
38	BP	26	TYR
38	BP	29	PHE
38	BP	32	TYR
38	BP	34	LEU
38	BP	41	TRP
38	BP	42	ILE
38	BP	43	THR
38	BP	45	GLN
38	BP	48	GLU
38	BP	51	ARG
38	BP	56	ARG
38	BP	60	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	BP	64	ILE
38	BP	73	PRO
38	BP	74	TYR
38	BP	76	LYS
38	BP	78	PRO
38	BP	79	LEU
38	BP	80	GLU
38	BP	82	ARG
38	BP	83	MET
38	BP	85	LYS
38	BP	91	GLU
38	BP	94	VAL
38	BP	97	VAL
38	BP	98	LYS
38	BP	99	PRO
38	BP	101	ARG
38	BP	102	VAL
38	BP	104	PHE
38	BP	109	VAL
38	BP	110	THR
38	BP	116	GLU
38	BP	118	LEU
38	BP	124	LYS
38	BP	126	PRO
38	BP	127	ILE
38	BP	130	LYS
38	BP	133	ARG
38	BP	135	ASP
38	BP	139	GLU
39	BQ	4	LEU
39	BQ	5	LYS
39	BQ	8	ARG
39	BQ	13	HIS
39	BQ	17	ARG
39	BQ	18	LEU
39	BQ	23	ASN
39	BQ	28	LEU
39	BQ	29	LEU
39	BQ	31	HIS
39	BQ	33	ARG
39	BQ	49	ASP
39	BQ	50	HIS

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Mol	Chain	Res	Type
39	BQ	52	ILE
39	BQ	56	LYS
39	BQ	60	LEU
39	BQ	61	HIS
39	BQ	64	ARG
39	BQ	73	VAL
39	BQ	74	LYS
39	BQ	77	ARG
39	BQ	79	LEU
39	BQ	80	PHE
39	BQ	82	GLU
39	BQ	86	ARG
39	BQ	88	ARG
39	BQ	89	ASP
39	BQ	99	LYS
39	BQ	102	GLU
39	BQ	105	ARG
39	BQ	116	LEU
40	BR	3	ARG
40	BR	4	LEU
40	BR	7	TYR
40	BR	9	ARG
40	BR	11	LYS
40	BR	12	PHE
40	BR	14	VAL
40	BR	19	LYS
40	BR	21	THR
40	BR	25	ARG
40	BR	26	LEU
40	BR	27	SER
40	BR	29	PHE
40	BR	38	GLN
40	BR	42	ASP
40	BR	56	LEU
40	BR	58	LEU
40	BR	67	ARG
40	BR	68	GLN
40	BR	71	ARG
40	BR	73	LEU
40	BR	76	LYS
40	BR	78	LEU
40	BR	88	ASP

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Mol	Chain	Res	Type
40	BR	89	ARG
40	BR	94	TYR
40	BR	97	ARG
40	BR	98	VAL
40	BR	101	LEU
40	BR	106	ARG
40	BR	107	GLU
40	BR	112	PHE
41	BS	3	ARG
41	BS	6	LEU
41	BS	7	ILE
41	BS	10	VAL
41	BS	13	ARG
41	BS	16	ARG
41	BS	20	PRO
41	BS	21	GLU
41	BS	23	ARG
41	BS	30	VAL
41	BS	32	TYR
41	BS	38	ASN
41	BS	41	ARG
41	BS	43	GLN
41	BS	46	GLU
41	BS	50	ILE
41	BS	51	ARG
41	BS	54	ARG
41	BS	55	ASN
41	BS	58	ASN
41	BS	62	THR
41	BS	63	VAL
41	BS	64	ARG
41	BS	66	VAL
41	BS	68	TYR
41	BS	73	GLU
41	BS	75	ILE
41	BS	85	LYS
41	BS	93	ARG
41	BS	96	ARG
41	BS	99	LEU
41	BS	103	ARG
41	BS	108	ARG
41	BS	109	GLU

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Mol	Chain	Res	Type
41	BS	111	ARG
41	BS	117	ASP
42	BT	6	THR
42	BT	8	VAL
42	BT	9	VAL
42	BT	11	ARG
42	BT	13	LYS
42	BT	18	LEU
42	BT	34	LYS
42	BT	36	ARG
42	BT	38	THR
42	BT	40	PHE
42	BT	45	TYR
42	BT	50	ARG
42	BT	53	ARG
42	BT	54	LYS
42	BT	55	ARG
42	BT	63	VAL
42	BT	65	ILE
42	BT	74	LEU
42	BT	79	PHE
42	BT	81	HIS
42	BT	88	ILE
42	BT	92	ARG
42	BT	93	LYS
42	BT	97	ASP
42	BT	100	VAL
42	BT	101	ARG
42	BT	106	PHE
42	BT	108	GLU
42	BT	114	LYS
43	BU	5	VAL
43	BU	7	THR
43	BU	13	ARG
43	BU	15	GLU
43	BU	20	LEU
43	BU	22	VAL
43	BU	23	GLU
43	BU	29	PRO
43	BU	45	THR
43	BU	49	THR
43	BU	52	VAL

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Mol	Chain	Res	Type
43	BU	60	GLU
43	BU	64	HIS
43	BU	73	SER
43	BU	78	LYS
43	BU	79	VAL
43	BU	82	ARG
43	BU	83	ARG
43	BU	84	LYS
43	BU	87	HIS
43	BU	93	GLU
43	BU	95	LEU
43	BU	100	ARG
44	BV	4	LYS
44	BV	6	ILE
44	BV	8	ARG
44	BV	11	ARG
44	BV	12	ILE
44	BV	16	LYS
44	BV	18	ARG
44	BV	19	LEU
44	BV	20	VAL
44	BV	23	LEU
44	BV	28	SER
44	BV	30	GLU
44	BV	31	GLU
44	BV	33	ARG
44	BV	36	LEU
44	BV	40	ASN
44	BV	42	ARG
44	BV	45	TYR
44	BV	47	VAL
44	BV	52	GLU
44	BV	66	GLU
44	BV	76	VAL
44	BV	77	ASP
44	BV	80	PRO
44	BV	82	LEU
44	BV	85	VAL
44	BV	88	ARG
44	BV	90	ARG
44	BV	94	ASP
44	BV	95	ILE

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Mol	Chain	Res	Type
44	BV	96	ILE
44	BV	98	LYS
44	BV	103	ILE
44	BV	104	THR
45	BW	5	TYR
45	BW	6	ASP
45	BW	8	ILE
45	BW	9	LEU
45	BW	13	LEU
45	BW	16	LYS
45	BW	23	GLU
45	BW	30	VAL
45	BW	33	LYS
45	BW	35	THR
45	BW	36	LYS
45	BW	45	THR
45	BW	50	LYS
45	BW	59	VAL
45	BW	66	LEU
45	BW	70	LEU
45	BW	73	ARG
45	BW	76	ARG
45	BW	77	LYS
45	BW	83	VAL
45	BW	92	LEU
46	BX	2	ARG
46	BX	11	ASP
46	BX	13	VAL
46	BX	19	LYS
46	BX	20	TYR
46	BX	28	LYS
46	BX	35	TYR
46	BX	42	VAL
46	BX	45	VAL
46	BX	46	LYS
46	BX	52	SER
46	BX	55	TYR
46	BX	56	PRO
46	BX	60	PHE
46	BX	68	HIS
46	BX	75	ILE
46	BX	84	ARG

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Mol	Chain	Res	Type
46	BX	88	LYS
46	BX	89	PHE
46	BX	91	GLU
46	BX	96	ILE
46	BX	97	ARG
46	BX	98	VAL
46	BX	102	CYS
46	BX	109	GLU
47	BY	1	MET
47	BY	2	GLU
47	BY	3	TYR
47	BY	8	TYR
47	BY	13	GLU
47	BY	14	LYS
47	BY	28	MET
47	BY	29	TYR
47	BY	31	ARG
47	BY	34	ASN
47	BY	42	VAL
47	BY	43	GLU
47	BY	45	ASP
47	BY	49	ARG
47	BY	50	GLN
47	BY	52	SER
47	BY	55	HIS
47	BY	58	VAL
47	BY	60	GLU
47	BY	63	ASP
47	BY	68	PRO
47	BY	70	LEU
47	BY	76	LEU
47	BY	78	LYS
47	BY	80	ARG
47	BY	89	PHE
47	BY	91	LEU
47	BY	98	MET
47	BY	100	VAL
47	BY	103	ARG
47	BY	104	PHE
47	BY	108	PRO
47	BY	120	ILE
47	BY	123	ASP

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Mol	Chain	Res	Type
47	BY	126	VAL
47	BY	135	GLU
47	BY	140	ASP
47	BY	146	ILE
47	BY	151	HIS
47	BY	154	ASP
47	BY	155	LEU
47	BY	156	LYS
47	BY	157	LEU
47	BY	159	PRO
47	BY	162	GLU
47	BY	168	GLU
47	BY	171	ILE
47	BY	174	VAL
47	BY	175	VAL
48	BZ	11	ARG
48	BZ	20	ARG
48	BZ	21	LEU
48	BZ	26	TYR
48	BZ	31	VAL
48	BZ	35	ASN
48	BZ	37	LEU
48	BZ	38	VAL
48	BZ	40	GLN
48	BZ	46	LYS
48	BZ	60	PHE
48	BZ	64	ASP
48	BZ	66	VAL
48	BZ	71	ASP
48	BZ	74	ARG
49	B1	2	ARG
49	B1	3	LYS
49	B1	7	GLU
49	B1	19	LEU
49	B1	22	GLU
49	B1	25	ARG
49	B1	30	LEU
49	B1	31	ARG
49	B1	39	LEU
49	B1	45	ILE
49	B1	47	ASP
49	B1	49	LYS

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Mol	Chain	Res	Type
49	B1	50	ARG
49	B1	56	LEU
49	B1	64	ARG
49	B1	65	GLN
50	B2	3	ARG
50	B2	4	LEU
50	B2	5	LYS
50	B2	6	VAL
50	B2	8	LEU
50	B2	15	TYR
50	B2	23	LEU
50	B2	28	LEU
50	B2	29	ARG
50	B2	30	ARG
50	B2	35	ARG
50	B2	37	LEU
50	B2	38	GLU
50	B2	41	PRO
50	B2	46	ASN
50	B2	53	LEU
50	B2	55	ARG
51	B3	3	GLU
51	B3	14	ILE
51	B3	15	ILE
51	B3	16	CYS
51	B3	18	CYS
51	B3	22	ILE
51	B3	24	THR
51	B3	25	TYR
51	B3	26	SER
51	B3	28	LYS
51	B3	29	PRO
51	B3	31	ILE
51	B3	32	TYR
51	B3	38	LYS
51	B3	56	VAL
51	B3	59	PHE
51	B3	61	ARG
51	B3	62	ARG
51	B3	63	TYR
51	B3	66	SER
51	B3	68	ARG

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Mol	Chain	Res	Type
52	B4	6	VAL
52	B4	9	LYS
52	B4	11	THR
52	B4	13	LYS
52	B4	15	ARG
52	B4	17	ASP
52	B4	26	THR
52	B4	27	PRO
52	B4	30	LEU
52	B4	32	PRO
52	B4	33	CYS
52	B4	37	LYS
52	B4	39	MET
52	B4	43	HIS
52	B4	44	THR
52	B4	49	CYS
52	B4	51	TYR
52	B4	52	TYR
52	B4	55	ARG
52	B4	59	GLU
53	B5	9	LEU
53	B5	11	LEU
53	B5	16	CYS
53	B5	17	LYS
53	B5	19	ARG
53	B5	21	TYR
53	B5	30	THR
53	B5	31	PRO
53	B5	32	ASN
53	B5	33	LYS
53	B5	38	LYS
53	B5	42	TRP
53	B5	44	ARG
53	B5	46	HIS
53	B5	48	VAL
53	B5	51	GLU
54	B6	3	ARG
54	B6	5	TRP
54	B6	6	GLN
54	B6	8	ASN
54	B6	15	THR
54	B6	19	ARG

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Mol	Chain	Res	Type
54	B6	21	ARG
54	B6	34	ARG
54	B6	41	ARG
54	B6	46	VAL
54	B6	48	LYS
54	B6	49	ARG
55	B7	8	LYS
55	B7	16	ILE
55	B7	27	THR
55	B7	33	ASN
55	B7	36	LYS
55	B7	39	LYS
55	B7	42	ARG
55	B7	44	LYS
55	B7	48	PHE
55	B7	50	LEU
55	B7	52	LYS
55	B7	58	ILE
55	B7	62	LEU
55	B7	64	TYR
56	B8	1	MET
56	B8	10	ILE
56	B8	11	CYS
56	B8	12	ASP
56	B8	13	LYS
56	B8	19	ARG
56	B8	20	HIS
56	B8	22	ARG
56	B8	27	CYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (180) such sidechains are listed below:

Mol	Chain	Res	Type
5	AE	25	ASN
5	AE	37	ASN
5	AE	40	HIS
5	AE	76	GLN
5	AE	78	GLN
5	AE	95	GLN
5	AE	104	ASN
5	AE	204	ASN
5	AE	212	GLN

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Mol	Chain	Res	Type
5	AE	224	GLN
5	AE	240	GLN
6	AF	3	ASN
6	AF	28	GLN
6	AF	102	ASN
6	AF	108	ASN
6	AF	110	ASN
6	AF	136	GLN
6	AF	139	GLN
6	AF	170	GLN
6	AF	181	ASN
7	AG	42	GLN
7	AG	62	GLN
7	AG	77	ASN
7	AG	154	ASN
7	AG	161	ASN
7	AG	201	GLN
8	AH	56	GLN
8	AH	65	ASN
8	AH	72	GLN
8	AH	78	HIS
8	AH	127	ASN
9	AI	7	ASN
9	AI	11	ASN
9	AI	13	ASN
9	AI	18	GLN
9	AI	32	ASN
9	AI	57	GLN
9	AI	94	GLN
10	AJ	11	GLN
10	AJ	56	GLN
10	AJ	68	ASN
10	AJ	96	GLN
10	AJ	97	GLN
10	AJ	106	GLN
10	AJ	109	ASN
10	AJ	110	GLN
10	AJ	153	HIS
11	AK	15	ASN
11	AK	70	GLN
11	AK	78	GLN
11	AK	82	HIS

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Mol	Chain	Res	Type
12	AL	73	GLN
12	AL	87	GLN
12	AL	89	ASN
12	AL	117	HIS
12	AL	124	GLN
13	AM	56	HIS
13	AM	62	HIS
13	AM	68	HIS
13	AM	76	ASN
13	AM	78	ASN
14	AN	27	ASN
14	AN	93	GLN
14	AN	104	GLN
14	AN	117	ASN
15	AO	49	ASN
15	AO	76	ASN
15	AO	99	HIS
16	AP	12	ASN
16	AP	92	HIS
17	AQ	52	GLN
18	AR	13	GLN
18	AR	37	ASN
18	AR	50	HIS
18	AR	62	GLN
19	AS	16	HIS
19	AS	82	GLN
20	AT	16	GLN
20	AT	93	GLN
20	AT	94	ASN
22	AV	14	HIS
22	AV	23	ASN
23	AW	42	GLN
23	AW	45	GLN
23	AW	73	HIS
27	BC	44	HIS
27	BC	56	GLN
27	BC	57	ASN
27	BC	172	HIS
27	BC	188	ASN
27	BC	225	ASN
28	BD	87	ASN
28	BD	115	GLN

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Mol	Chain	Res	Type
28	BD	129	ASN
28	BD	201	HIS
28	BD	203	ASN
28	BD	227	ASN
29	BE	48	GLN
29	BE	85	ASN
29	BE	121	ASN
29	BE	129	HIS
29	BE	132	HIS
29	BE	135	HIS
29	BE	143	ASN
29	BE	169	ASN
29	BE	180	ASN
30	BF	133	ASN
30	BF	160	ASN
30	BF	203	GLN
31	BG	26	GLN
31	BG	132	ASN
31	BG	138	GLN
32	BH	65	HIS
33	BK	28	ASN
33	BK	43	ASN
33	BK	74	ASN
33	BK	105	HIS
34	BL	30	HIS
34	BL	42	ASN
34	BL	47	ASN
34	BL	89	HIS
35	BM	69	GLN
35	BM	94	HIS
35	BM	130	HIS
36	BN	90	GLN
37	BO	9	ASN
37	BO	13	ASN
37	BO	68	GLN
37	BO	84	ASN
38	BP	12	GLN
38	BP	13	GLN
38	BP	57	HIS
39	BQ	13	HIS
39	BQ	23	ASN
39	BQ	24	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	BQ	31	HIS
40	BR	38	GLN
40	BR	61	ASN
40	BR	84	GLN
41	BS	38	ASN
41	BS	43	GLN
41	BS	84	GLN
42	BT	44	ASN
42	BT	66	ASN
42	BT	94	ASN
43	BU	11	GLN
43	BU	89	GLN
44	BV	34	ASN
44	BV	57	ASN
44	BV	60	ASN
45	BW	31	HIS
45	BW	87	GLN
46	BX	43	ASN
46	BX	57	GLN
47	BY	32	HIS
47	BY	34	ASN
47	BY	75	ASN
47	BY	121	HIS
48	BZ	35	ASN
49	B1	41	GLN
49	B1	42	ASN
49	B1	51	GLN
49	B1	65	GLN
50	B2	19	GLN
50	B2	33	GLN
51	B3	20	ASN
51	B3	46	GLN
51	B3	60	GLN
52	B4	22	HIS
52	B4	23	HIS
52	B4	43	HIS
53	B5	20	ASN
53	B5	26	ASN
53	B5	29	ASN
53	B5	32	ASN
54	B6	6	GLN
54	B6	8	ASN

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Mol	Chain	Res	Type
55	B7	31	HIS
55	B7	35	GLN
55	B7	43	GLN

### 5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1515/1522 (99%)	479 (31%)	151 (9%)
2	AC	75/76 (98%)	30 (40%)	7 (9%)
25	BA	2888/2916 (99%)	1241 (42%)	313 (10%)
26	BB	122/123 (99%)	46 (37%)	5 (4%)
3	AD	75/76 (98%)	27 (36%)	3 (4%)
4	A1	26/27 (96%)	11 (42%)	1 (3%)
All	All	4701/4740 (99%)	1834 (39%)	480 (10%)

All (1834) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	8	A
1	AA	9	G
1	AA	13	U
1	AA	14	U
1	AA	20	U
1	AA	31	G
1	AA	32	A
1	AA	35	G
1	AA	39	G
1	AA	48	C
1	AA	49	U
1	AA	50	A
1	AA	51	A
1	AA	52	G
1	AA	61	G
1	AA	65	U
1	AA	66	G
1	AA	78	G
1	AA	81	G
1	AA	82	U
1	AA	87	A
1	AA	89	U

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Mol	Chain	Res	Type
1	AA	101	A
1	AA	106	C
1	AA	110	C
1	AA	111	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	122	G
1	AA	130	A
1	AA	131	C
1	AA	134	A
1	AA	151	A
1	AA	152	A
1	AA	167	G
1	AA	182	U
1	AA	186(C)	G
1	AA	189	U
1	AA	190	G
1	AA	191(A)	G
1	AA	191(C)	G
1	AA	195	A
1	AA	196	A
1	AA	197	A
1	AA	198	G
1	AA	209	U
1	AA	210	U
1	AA	216	G
1	AA	225	C
1	AA	236	G
1	AA	244	U
1	AA	245	C
1	AA	247	G
1	AA	251	G
1	AA	252	U
1	AA	253	U
1	AA	259	G
1	AA	260	G
1	AA	261	U
1	AA	262	A
1	AA	264	U
1	AA	265	G
1	AA	266	G

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Mol	Chain	Res	Type
1	AA	267	C
1	AA	275	G
1	AA	279	A
1	AA	280	C
1	AA	281	G
1	AA	282	A
1	AA	288	A
1	AA	289	G
1	AA	293	G
1	AA	306	G
1	AA	308	C
1	AA	309	G
1	AA	314	C
1	AA	315	A
1	AA	316	G
1	AA	318	G
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	340	U
1	AA	345	C
1	AA	346	G
1	AA	350	G
1	AA	352	C
1	AA	353	A
1	AA	355	C
1	AA	365	U
1	AA	366	C
1	AA	367	U
1	AA	368	U
1	AA	373	A
1	AA	382	A
1	AA	383	A
1	AA	384	G
1	AA	388	G
1	AA	389	A
1	AA	390	C
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	413	G

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Mol	Chain	Res	Type
1	AA	414	A
1	AA	422	C
1	AA	423	G
1	AA	424	G
1	AA	427	U
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	439	A
1	AA	440	A
1	AA	451	A
1	AA	452	A
1	AA	465	A
1	AA	466	C
1	AA	467	G
1	AA	481	G
1	AA	482	A
1	AA	484	G
1	AA	485	G
1	AA	486	U
1	AA	487	A
1	AA	495	A
1	AA	496	A
1	AA	497	U
1	AA	500	G
1	AA	507	C
1	AA	508	C
1	AA	509	A
1	AA	511	C
1	AA	517	G
1	AA	518	C
1	AA	519	C
1	AA	520	A
1	AA	521	G
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	535	A
1	AA	536	C
1	AA	548	G

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Mol	Chain	Res	Type
1	AA	549	C
1	AA	553	A
1	AA	554	C
1	AA	555	C
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	563	A
1	AA	566	G
1	AA	567	G
1	AA	570	G
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	579	G
1	AA	581	G
1	AA	589	C
1	AA	595	G
1	AA	607	A
1	AA	609	A
1	AA	610	G
1	AA	618	C
1	AA	623	C
1	AA	642	A
1	AA	652	U
1	AA	653	A
1	AA	665	A
1	AA	672	U
1	AA	673	G
1	AA	674	G
1	AA	677	U
1	AA	679	C
1	AA	686	U
1	AA	687	A
1	AA	688	G
1	AA	691	G
1	AA	693	G
1	AA	697	U
1	AA	701	C

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Mol	Chain	Res	Type
1	AA	702	A
1	AA	703	G
1	AA	704	A
1	AA	718	G
1	AA	719	C
1	AA	721	G
1	AA	722	A
1	AA	723	U
1	AA	724	G
1	AA	729	A
1	AA	731	G
1	AA	733	A
1	AA	747	C
1	AA	749	C
1	AA	752	G
1	AA	754	C
1	AA	760	G
1	AA	763	G
1	AA	764	C
1	AA	766	A
1	AA	767	A
1	AA	776	G
1	AA	777	A
1	AA	778	G
1	AA	781	A
1	AA	782	A
1	AA	784	C
1	AA	785	G
1	AA	790	A
1	AA	791	G
1	AA	793	U
1	AA	794	A
1	AA	801	U
1	AA	805	C
1	AA	807	A
1	AA	813	U
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	820	U

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Mol	Chain	Res	Type
1	AA	821	G
1	AA	825	G
1	AA	826	C
1	AA	828	A
1	AA	834	C
1	AA	841	U
1	AA	842	C
1	AA	843	U
1	AA	848	C
1	AA	859	A
1	AA	865	A
1	AA	866	C
1	AA	870	U
1	AA	871	U
1	AA	872	A
1	AA	873	A
1	AA	874	G
1	AA	884	U
1	AA	885	G
1	AA	889	A
1	AA	890	G
1	AA	891	U
1	AA	893	C
1	AA	902	G
1	AA	913	A
1	AA	914	A
1	AA	915	A
1	AA	919	A
1	AA	920	U
1	AA	927	G
1	AA	931	C
1	AA	932	C
1	AA	934	C
1	AA	945	G
1	AA	958	A
1	AA	960	U
1	AA	961	U
1	AA	965	A
1	AA	966	G
1	AA	967	C
1	AA	968	A
1	AA	969	A

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Mol	Chain	Res	Type
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	980	C
1	AA	982	U
1	AA	983	A
1	AA	991	U
1	AA	993	G
1	AA	994	A
1	AA	995	C
1	AA	996	A
1	AA	997	U
1	AA	1000	A
1	AA	1001	G
1	AA	1002	G
1	AA	1003	G
1	AA	1004	A
1	AA	1005	A
1	AA	1006	C
1	AA	1007	C
1	AA	1013	G
1	AA	1018	C
1	AA	1023	G
1	AA	1026	G
1	AA	1027	C
1	AA	1029	G
1	AA	1033	G
1	AA	1050	G
1	AA	1054	C
1	AA	1056	U
1	AA	1063	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1084	G
1	AA	1085	U
1	AA	1086	U
1	AA	1094	G
1	AA	1095	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1096	C
1	AA	1099	G
1	AA	1100	C
1	AA	1101	A
1	AA	1102	A
1	AA	1107	C
1	AA	1108	G
1	AA	1118	C
1	AA	1123	A
1	AA	1125	U
1	AA	1126	U
1	AA	1127	G
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1135	U
1	AA	1136	U
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1145	C
1	AA	1146	A
1	AA	1147	C
1	AA	1148	U
1	AA	1151	A
1	AA	1152	A
1	AA	1157	A
1	AA	1158	C
1	AA	1159	U
1	AA	1160	G
1	AA	1161	C
1	AA	1174	G
1	AA	1177	G
1	AA	1182	G
1	AA	1183	A
1	AA	1184	G
1	AA	1185	G
1	AA	1188	A
1	AA	1189	C
1	AA	1190	G
1	AA	1196	U
1	AA	1197	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1200	C
1	AA	1201	A
1	AA	1202	G
1	AA	1211	U
1	AA	1212	U
1	AA	1215	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C
1	AA	1254	C
1	AA	1256	A
1	AA	1257	U
1	AA	1258	G
1	AA	1260	C
1	AA	1269	A
1	AA	1270	C
1	AA	1271	G
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1283	G
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1289	A
1	AA	1290	G
1	AA	1292	U
1	AA	1297	C
1	AA	1298	C
1	AA	1299	A
1	AA	1301	U
1	AA	1302	U
1	AA	1303	C
1	AA	1305	G
1	AA	1312	G
1	AA	1316	G
1	AA	1317	C
1	AA	1318	A
1	AA	1320	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1321	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1332	A
1	AA	1333	A
1	AA	1338	G
1	AA	1345	U
1	AA	1346	A
1	AA	1347	G
1	AA	1348	U
1	AA	1353	G
1	AA	1354	C
1	AA	1362(A)	C
1	AA	1363	A
1	AA	1364	U
1	AA	1365	G
1	AA	1378	C
1	AA	1379	G
1	AA	1381	U
1	AA	1387	G
1	AA	1394	A
1	AA	1395	C
1	AA	1396	A
1	AA	1397	C
1	AA	1398	A
1	AA	1400	C
1	AA	1401	G
1	AA	1406	U
1	AA	1413	A
1	AA	1419	G
1	AA	1431	C
1	AA	1437	C
1	AA	1440	C
1	AA	1441	G
1	AA	1442	G
1	AA	1443	G
1	AA	1446	A
1	AA	1447	G
1	AA	1449	C
1	AA	1450	U
1	AA	1451	A

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Mol	Chain	Res	Type
1	AA	1452	C
1	AA	1453	G
1	AA	1466	C
1	AA	1467	G
1	AA	1468	A
1	AA	1469	G
1	AA	1479	C
1	AA	1481	U
1	AA	1482	G
1	AA	1483	A
1	AA	1491	G
1	AA	1493	A
1	AA	1495	U
1	AA	1496	C
1	AA	1497	G
1	AA	1498	U
1	AA	1501	C
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1511	G
1	AA	1517	G
1	AA	1520	G
1	AA	1528	U
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A
1	AA	1532	U
1	AA	1533	C
1	AA	1534	A
1	AA	1538	C
1	AA	1540	U
1	AA	1542	U
2	AC	8	U
2	AC	9	G
2	AC	10	G
2	AC	16	C
2	AC	17	C
2	AC	18	G

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Mol	Chain	Res	Type
2	AC	19	G
2	AC	20	U
2	AC	21	A
2	AC	22	G
2	AC	32	C
2	AC	35	A
2	AC	36	U
2	AC	39	C
2	AC	41	C
2	AC	43	A
2	AC	46	G
2	AC	47	U
2	AC	48	C
2	AC	49	G
2	AC	50	U
2	AC	53	G
2	AC	58	A
2	AC	59	A
2	AC	60	U
2	AC	61	C
2	AC	63	G
2	AC	74	C
2	AC	75	C
2	AC	76	A
3	AD	10	G
3	AD	15	G
3	AD	17	U
3	AD	18	G
3	AD	19	G
3	AD	21	A
3	AD	27	U
3	AD	30	G
3	AD	34	G
3	AD	35	A
3	AD	36	A
3	AD	37	A
3	AD	40	C
3	AD	41	G
3	AD	42	C
3	AD	43	A
3	AD	45	U
3	AD	48	C

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Mol	Chain	Res	Type
3	AD	49	G
3	AD	52	G
3	AD	58	A
3	AD	59	U
3	AD	61	C
3	AD	71	G
3	AD	72	C
3	AD	74	C
3	AD	76	A
4	A1	5	A
4	A1	6	G
4	A1	7	G
4	A1	9	G
4	A1	11	U
4	A1	12	A
4	A1	15	A
4	A1	16	A
4	A1	18	G
4	A1	19	A
4	A1	23	A
25	BA	9	U
25	BA	13	A
25	BA	25	U
25	BA	26	G
25	BA	29	U
25	BA	33	U
25	BA	34	C
25	BA	38	A
25	BA	41	C
25	BA	46	C
25	BA	49	A
25	BA	50	U
25	BA	51	G
25	BA	52	A
25	BA	60	G
25	BA	61	G
25	BA	63	U
25	BA	64	A
25	BA	71	A
25	BA	72	U
25	BA	73	A
25	BA	74	A

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Mol	Chain	Res	Type
25	BA	75	G
25	BA	77	C
25	BA	82	G
25	BA	84	A
25	BA	88	G
25	BA	90	U
25	BA	91	A
25	BA	92	G
25	BA	96	G
25	BA	101	G
25	BA	102	G
25	BA	104	U
25	BA	112	U
25	BA	113	G
25	BA	117	G
25	BA	119	A
25	BA	120	U
25	BA	121	G
25	BA	125	G
25	BA	126	A
25	BA	128	C
25	BA	131	G
25	BA	132	G
25	BA	133	C
25	BA	134	C
25	BA	136	G
25	BA	138	G
25	BA	139	G
25	BA	140	A
25	BA	141(A)	C
25	BA	147	U
25	BA	149	A
25	BA	154	G
25	BA	161	U
25	BA	163	U
25	BA	171	G
25	BA	172	C
25	BA	173	G
25	BA	174	C
25	BA	178	G
25	BA	181	A
25	BA	182	A

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Mol	Chain	Res	Type
25	BA	192	C
25	BA	196	A
25	BA	197	A
25	BA	200	U
25	BA	203	C
25	BA	204	A
25	BA	205	G
25	BA	206	U
25	BA	215	G
25	BA	216	A
25	BA	217	G
25	BA	221	A
25	BA	222	A
25	BA	223	A
25	BA	224	G
25	BA	226	G
25	BA	227	A
25	BA	228	A
25	BA	229	A
25	BA	230	U
25	BA	232	G
25	BA	233	A
25	BA	241	A
25	BA	242	G
25	BA	243	U
25	BA	245	G
25	BA	248	G
25	BA	249	C
25	BA	250	G
25	BA	251	A
25	BA	252	G
25	BA	264	C
25	BA	265	A
25	BA	266	G
25	BA	269	U
25	BA	270(A)	A
25	BA	270(B)	A
25	BA	270(C)	C
25	BA	270(E)	G
25	BA	270(J)	G
25	BA	270(L)	U
25	BA	270(M)	U

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Mol	Chain	Res	Type
25	BA	270(N)	G
25	BA	270(T)	G
25	BA	270(V)	G
25	BA	270(X)	G
25	BA	270(Z)	U
25	BA	271(A)	C
25	BA	271(B)	G
25	BA	271(C)	U
25	BA	271	G
25	BA	272	G
25	BA	273	G
25	BA	273(F)	C
25	BA	275	G
25	BA	276	A
25	BA	277	C
25	BA	279	C
25	BA	280	C
25	BA	281	G
25	BA	282	A
25	BA	283	A
25	BA	284	U
25	BA	289	A
25	BA	290	G
25	BA	293	U
25	BA	300	A
25	BA	302	C
25	BA	308	G
25	BA	310	A
25	BA	311	A
25	BA	312	G
25	BA	313	C
25	BA	316	C
25	BA	318	C
25	BA	320	A
25	BA	322	A
25	BA	323	G
25	BA	324	A
25	BA	329	G
25	BA	330	A
25	BA	332	A
25	BA	333	G
25	BA	337	C

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Mol	Chain	Res	Type
25	BA	338	G
25	BA	339	U
25	BA	340	A
25	BA	341	G
25	BA	342	G
25	BA	345	A
25	BA	347	A
25	BA	348	G
25	BA	349	G
25	BA	350	U
25	BA	351	G
25	BA	352	G
25	BA	354	G
25	BA	356	G
25	BA	357	A
25	BA	359	A
25	BA	360	G
25	BA	361	G
25	BA	363(A)	A
25	BA	363(F)	A
25	BA	364	C
25	BA	366	C
25	BA	370	G
25	BA	371	A
25	BA	372	G
25	BA	373	U
25	BA	374	A
25	BA	386	G
25	BA	387	U
25	BA	388	G
25	BA	390	A
25	BA	391	G
25	BA	395	U
25	BA	397	G
25	BA	401	A
25	BA	403	U
25	BA	404	C
25	BA	405	U
25	BA	406	G
25	BA	411	G
25	BA	412	A
25	BA	413	C

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Mol	Chain	Res	Type
25	BA	421	U
25	BA	423	A
25	BA	424	G
25	BA	428	A
25	BA	436	C
25	BA	442	G
25	BA	443	A
25	BA	444	C
25	BA	446	G
25	BA	447	A
25	BA	448	U
25	BA	449	A
25	BA	451	C
25	BA	452	G
25	BA	453	C
25	BA	454	A
25	BA	455	C
25	BA	456	C
25	BA	457	A
25	BA	459	U
25	BA	471	A
25	BA	475	U
25	BA	479	A
25	BA	480	A
25	BA	481	G
25	BA	483	A
25	BA	484	C
25	BA	485	C
25	BA	492	A
25	BA	497	A
25	BA	501	A
25	BA	502	A
25	BA	503	A
25	BA	504	U
25	BA	505	A
25	BA	506	G
25	BA	507	A
25	BA	508	G
25	BA	509	C
25	BA	510	C
25	BA	513	A
25	BA	519	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	525	U
25	BA	527	C
25	BA	528	A
25	BA	529	A
25	BA	530	G
25	BA	531	C
25	BA	532	A
25	BA	533	G
25	BA	541	C
25	BA	545	G
25	BA	547	A
25	BA	549	G
25	BA	551	G
25	BA	556	G
25	BA	559	G
25	BA	560	C
25	BA	562	U
25	BA	563	G
25	BA	566	U
25	BA	568	U
25	BA	571	A
25	BA	572	A
25	BA	573	G
25	BA	574	C
25	BA	575	A
25	BA	576	U
25	BA	579	G
25	BA	584	C
25	BA	588	U
25	BA	592	G
25	BA	593	G
25	BA	595	C
25	BA	597	U
25	BA	598	G
25	BA	603	A
25	BA	604	G
25	BA	605	C
25	BA	607	U
25	BA	612	G
25	BA	613	U
25	BA	614	U
25	BA	615	G

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Mol	Chain	Res	Type
25	BA	616	A
25	BA	617	G
25	BA	620	G
25	BA	621	A
25	BA	622	G
25	BA	625	G
25	BA	627	A
25	BA	631	A
25	BA	637	A
25	BA	639	U
25	BA	640	C
25	BA	641	C
25	BA	643	A
25	BA	644	A
25	BA	646	A
25	BA	650	C
25	BA	651	G
25	BA	653	A
25	BA	654	A
25	BA	656	G
25	BA	665	C
25	BA	666	G
25	BA	668	G
25	BA	669	G
25	BA	670	A
25	BA	671	C
25	BA	677	A
25	BA	686	G
25	BA	687	C
25	BA	689	A
25	BA	690	G
25	BA	697	C
25	BA	698	C
25	BA	699	A
25	BA	705	A
25	BA	713	G
25	BA	714	U
25	BA	715	G
25	BA	718	A
25	BA	721	C
25	BA	727	A
25	BA	728	G

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Mol	Chain	Res	Type
25	BA	729	G
25	BA	730	C
25	BA	731	C
25	BA	732	C
25	BA	734	A
25	BA	736	C
25	BA	739	G
25	BA	740	U
25	BA	741	G
25	BA	746	A
25	BA	747	U
25	BA	748	G
25	BA	749	C
25	BA	752	A
25	BA	753	C
25	BA	760	G
25	BA	762	U
25	BA	764	A
25	BA	772	C
25	BA	774	A
25	BA	775	G
25	BA	776	G
25	BA	777	A
25	BA	779	U
25	BA	782	A
25	BA	783	A
25	BA	784	A
25	BA	785	G
25	BA	786	C
25	BA	788	A
25	BA	789	A
25	BA	790	C
25	BA	791	C
25	BA	792	G
25	BA	793	A
25	BA	794	G
25	BA	795	C
25	BA	799	G
25	BA	800	A
25	BA	801	G
25	BA	802	A
25	BA	803	U

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Mol	Chain	Res	Type
25	BA	805	G
25	BA	806	C
25	BA	812	C
25	BA	816	C
25	BA	819	A
25	BA	822	U
25	BA	824	A
25	BA	827	U
25	BA	830	G
25	BA	831	G
25	BA	833	U
25	BA	834	C
25	BA	838	C
25	BA	844	C
25	BA	845	G
25	BA	846	C
25	BA	847	U
25	BA	859	G
25	BA	860	U
25	BA	861	A
25	BA	863	A
25	BA	865	C
25	BA	866	A
25	BA	867	C
25	BA	870	A
25	BA	876	C
25	BA	881	G
25	BA	886	C
25	BA	887	A
25	BA	888	C
25	BA	889	C
25	BA	890	A
25	BA	892	G
25	BA	894	C
25	BA	896	A
25	BA	899	A
25	BA	902	C
25	BA	907	U
25	BA	910	A
25	BA	914	C
25	BA	918	A
25	BA	919	G

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Mol	Chain	Res	Type
25	BA	930	U
25	BA	931	G
25	BA	932	G
25	BA	933	A
25	BA	936	C
25	BA	937	U
25	BA	941	A
25	BA	942	G
25	BA	943	U
25	BA	944	G
25	BA	945	A
25	BA	946	G
25	BA	950	G
25	BA	957	A
25	BA	958	U
25	BA	959	A
25	BA	960	A
25	BA	961	C
25	BA	962	G
25	BA	967	C
25	BA	972	G
25	BA	973	A
25	BA	974	G
25	BA	974(A)	C
25	BA	975	G
25	BA	976	C
25	BA	978	G
25	BA	980	A
25	BA	982	C
25	BA	983	A
25	BA	990	A
25	BA	995	C
25	BA	996	A
25	BA	997	G
25	BA	1003	G
25	BA	1008	C
25	BA	1010	A
25	BA	1011	G
25	BA	1012	U
25	BA	1013	C
25	BA	1021	A
25	BA	1022	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1023	U
25	BA	1024	G
25	BA	1025	G
25	BA	1026	U
25	BA	1032	A
25	BA	1033	U
25	BA	1034	G
25	BA	1038	C
25	BA	1044	G
25	BA	1045	A
25	BA	1046	A
25	BA	1047	G
25	BA	1048	A
25	BA	1056	G
25	BA	1059	G
25	BA	1060	U
25	BA	1061	U
25	BA	1062	G
25	BA	1064	C
25	BA	1065	U
25	BA	1066	U
25	BA	1067	A
25	BA	1068	G
25	BA	1069	A
25	BA	1070	A
25	BA	1071	G
25	BA	1072	C
25	BA	1073	A
25	BA	1074	G
25	BA	1075	C
25	BA	1079	C
25	BA	1084	A
25	BA	1085	A
25	BA	1086	A
25	BA	1087	G
25	BA	1088	A
25	BA	1090	U
25	BA	1094	U
25	BA	1099	G
25	BA	1101	U
25	BA	1103	A
25	BA	1104	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1106	G
25	BA	1108	U
25	BA	1110	G
25	BA	1111	A
25	BA	1112	G
25	BA	1114	G
25	BA	1116	C
25	BA	1119	C
25	BA	1124	C
25	BA	1126	A
25	BA	1127	A
25	BA	1128	A
25	BA	1129	A
25	BA	1130	U
25	BA	1131	G
25	BA	1132	A
25	BA	1134	G
25	BA	1135	C
25	BA	1138	G
25	BA	1140	C
25	BA	1141	U
25	BA	1142	U
25	BA	1143	A
25	BA	1149	G
25	BA	1154	G
25	BA	1155	A
25	BA	1156	A
25	BA	1157	G
25	BA	1160	G
25	BA	1162	G
25	BA	1171	G
25	BA	1173	G
25	BA	1174	A
25	BA	1176	G
25	BA	1177	A
25	BA	1178	C
25	BA	1179	C
25	BA	1180	C
25	BA	1182	A
25	BA	1183	G
25	BA	1184	G
25	BA	1185	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1186	G
25	BA	1197	G
25	BA	1198	U
25	BA	1199	U
25	BA	1203	G
25	BA	1204	A
25	BA	1205	U
25	BA	1206	G
25	BA	1207	C
25	BA	1209	G
25	BA	1211	U
25	BA	1212	G
25	BA	1220	A
25	BA	1221	C
25	BA	1222	C
25	BA	1224	G
25	BA	1225	C
25	BA	1228	G
25	BA	1236	G
25	BA	1238	G
25	BA	1241	A
25	BA	1242	A
25	BA	1247	A
25	BA	1248	G
25	BA	1249	U
25	BA	1251	C
25	BA	1252	G
25	BA	1253	A
25	BA	1254	A
25	BA	1255	U
25	BA	1256	G
25	BA	1260	G
25	BA	1261	C
25	BA	1263	U
25	BA	1264	G
25	BA	1265	A
25	BA	1266	G
25	BA	1268	A
25	BA	1270	C
25	BA	1271	G
25	BA	1272	A
25	BA	1273	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1275	A
25	BA	1276	A
25	BA	1284	A
25	BA	1286	A
25	BA	1289	C
25	BA	1291	C
25	BA	1297	C
25	BA	1299	G
25	BA	1300	U
25	BA	1301	A
25	BA	1302	A
25	BA	1303	G
25	BA	1304	C
25	BA	1305	C
25	BA	1311	G
25	BA	1312	U
25	BA	1316	U
25	BA	1321	A
25	BA	1323	U
25	BA	1324	G
25	BA	1325	G
25	BA	1326	U
25	BA	1329	U
25	BA	1330	C
25	BA	1333	C
25	BA	1341	U
25	BA	1342	A
25	BA	1343	G
25	BA	1344	G
25	BA	1345	C
25	BA	1349	A
25	BA	1350	C
25	BA	1363	C
25	BA	1364	G
25	BA	1365	A
25	BA	1366	A
25	BA	1368	G
25	BA	1378	A
25	BA	1379	A
25	BA	1384	A
25	BA	1388	G
25	BA	1394	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1395	A
25	BA	1397	U
25	BA	1398	C
25	BA	1403	C
25	BA	1407	C
25	BA	1416	G
25	BA	1417	C
25	BA	1418	G
25	BA	1419	A
25	BA	1424	G
25	BA	1426	G
25	BA	1427	A
25	BA	1428	C
25	BA	1429	G
25	BA	1444(A)	A
25	BA	1445	C
25	BA	1451	C
25	BA	1453	A
25	BA	1454	U
25	BA	1455	G
25	BA	1459	G
25	BA	1460	A
25	BA	1462	C
25	BA	1467	C
25	BA	1471	A
25	BA	1477	A
25	BA	1478	G
25	BA	1480	G
25	BA	1482	U
25	BA	1483	G
25	BA	1490	A
25	BA	1492	G
25	BA	1493	C
25	BA	1494	A
25	BA	1496	A
25	BA	1497	U
25	BA	1498	C
25	BA	1504	C
25	BA	1507	A
25	BA	1508	A
25	BA	1509	C
25	BA	1510	A

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Mol	Chain	Res	Type
25	BA	1512	G
25	BA	1513	C
25	BA	1514	U
25	BA	1515	C
25	BA	1516	U
25	BA	1518	C
25	BA	1519	G
25	BA	1521	G
25	BA	1522	G
25	BA	1526	G
25	BA	1528	A
25	BA	1529	A
25	BA	1531	C
25	BA	1532	C
25	BA	1537	C
25	BA	1540	G
25	BA	1541	U
25	BA	1542	G
25	BA	1544	C
25	BA	1545	A
25	BA	1553	A
25	BA	1554	A
25	BA	1555	G
25	BA	1558	A
25	BA	1559	G
25	BA	1560	G
25	BA	1561	G
25	BA	1566	A
25	BA	1567	A
25	BA	1569	A
25	BA	1570	A
25	BA	1571	A
25	BA	1572	A
25	BA	1573	G
25	BA	1575	C
25	BA	1576	U
25	BA	1577	C
25	BA	1578	U
25	BA	1580	A
25	BA	1581	G
25	BA	1583	A
25	BA	1585	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1586	A
25	BA	1587	A
25	BA	1603	A
25	BA	1607	C
25	BA	1608	A
25	BA	1609	A
25	BA	1610	A
25	BA	1614	A
25	BA	1615	C
25	BA	1616	A
25	BA	1617	C
25	BA	1618	A
25	BA	1619	G
25	BA	1625	C
25	BA	1626	G
25	BA	1627	G
25	BA	1633	G
25	BA	1634	A
25	BA	1635	G
25	BA	1639	U
25	BA	1640	C
25	BA	1641	A
25	BA	1644	C
25	BA	1645	G
25	BA	1647	G
25	BA	1648	C
25	BA	1651	G
25	BA	1652	A
25	BA	1653	G
25	BA	1654	A
25	BA	1655	A
25	BA	1656	C
25	BA	1657	C
25	BA	1664	A
25	BA	1667	G
25	BA	1668	A
25	BA	1669	A
25	BA	1670	C
25	BA	1672	C
25	BA	1673	U
25	BA	1674	G
25	BA	1675	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1678	G
25	BA	1681	G
25	BA	1682	G
25	BA	1691	C
25	BA	1693	U
25	BA	1694	C
25	BA	1695	G
25	BA	1698	A
25	BA	1699	G
25	BA	1700	A
25	BA	1701	A
25	BA	1706	U
25	BA	1707	G
25	BA	1709	U
25	BA	1710	C
25	BA	1725	G
25	BA	1728	G
25	BA	1729	A
25	BA	1731	G
25	BA	1732	A
25	BA	1733	G
25	BA	1734	C
25	BA	1741	C
25	BA	1742	C
25	BA	1743	G
25	BA	1746	G
25	BA	1747	G
25	BA	1755	A
25	BA	1757	U
25	BA	1758	G
25	BA	1759	A
25	BA	1761	C
25	BA	1762	A
25	BA	1763	G
25	BA	1764	G
25	BA	1772	G
25	BA	1773	A
25	BA	1775	U
25	BA	1778	U
25	BA	1779	U
25	BA	1780	A
25	BA	1781	C

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Mol	Chain	Res	Type
25	BA	1782	C
25	BA	1783	A
25	BA	1784	A
25	BA	1785	A
25	BA	1787	A
25	BA	1788	C
25	BA	1789	A
25	BA	1790	C
25	BA	1791	A
25	BA	1799	G
25	BA	1800	C
25	BA	1801	G
25	BA	1802	A
25	BA	1804	C
25	BA	1809	A
25	BA	1810	A
25	BA	1814	G
25	BA	1815	A
25	BA	1816	G
25	BA	1817	G
25	BA	1819	A
25	BA	1820	U
25	BA	1821	A
25	BA	1829	A
25	BA	1833	U
25	BA	1834	U
25	BA	1838	C
25	BA	1839	G
25	BA	1840	G
25	BA	1845	G
25	BA	1847	A
25	BA	1848	A
25	BA	1852	C
25	BA	1858	G
25	BA	1880	C
25	BA	1881	C
25	BA	1884	A
25	BA	1899	G
25	BA	1901	A
25	BA	1903	G
25	BA	1906	G
25	BA	1913	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1914	C
25	BA	1915	U
25	BA	1916	A
25	BA	1917	U
25	BA	1919	A
25	BA	1920	C
25	BA	1923	U
25	BA	1927	A
25	BA	1928	A
25	BA	1929	G
25	BA	1930	G
25	BA	1931	U
25	BA	1933	G
25	BA	1935	G
25	BA	1936	A
25	BA	1937	A
25	BA	1938	A
25	BA	1939	U
25	BA	1940	U
25	BA	1941	C
25	BA	1942	C
25	BA	1943	U
25	BA	1944	U
25	BA	1945	G
25	BA	1952	A
25	BA	1953	A
25	BA	1954	G
25	BA	1955	U
25	BA	1956	U
25	BA	1958	C
25	BA	1960	A
25	BA	1963	U
25	BA	1964	G
25	BA	1965	C
25	BA	1966	A
25	BA	1967	C
25	BA	1968	G
25	BA	1970	A
25	BA	1971	A
25	BA	1972	A
25	BA	1975	G
25	BA	1976	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1981	A
25	BA	1982	C
25	BA	1983	C
25	BA	1989	G
25	BA	1992	G
25	BA	1993	U
25	BA	1994	C
25	BA	1996	C
25	BA	1997	G
25	BA	2001	A
25	BA	2014	A
25	BA	2015	A
25	BA	2016	U
25	BA	2018	G
25	BA	2020	A
25	BA	2021	C
25	BA	2022	U
25	BA	2023	G
25	BA	2026	C
25	BA	2031	A
25	BA	2032	G
25	BA	2033	A
25	BA	2034	U
25	BA	2036	C
25	BA	2043	C
25	BA	2044	C
25	BA	2048	G
25	BA	2050	C
25	BA	2051	A
25	BA	2052	G
25	BA	2055	C
25	BA	2056	G
25	BA	2060	A
25	BA	2061	G
25	BA	2062	A
25	BA	2063	C
25	BA	2064	C
25	BA	2065	C
25	BA	2068	U
25	BA	2069	G
25	BA	2075	U
25	BA	2076	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	2077	A
25	BA	2080	G
25	BA	2081	C
25	BA	2087	G
25	BA	2092	U
25	BA	2093	G
25	BA	2111	C
25	BA	2116	G
25	BA	2117	A
25	BA	2119	A
25	BA	2120	G
25	BA	2122	U
25	BA	2123	G
25	BA	2124	G
25	BA	2126	A
25	BA	2127	G
25	BA	2131	G
25	BA	2132	U
25	BA	2133	G
25	BA	2134	A
25	BA	2135	A
25	BA	2136	C
25	BA	2144	U
25	BA	2146	C
25	BA	2148	G
25	BA	2156	G
25	BA	2158	A
25	BA	2159	G
25	BA	2165	G
25	BA	2172	U
25	BA	2173	A
25	BA	2175	C
25	BA	2183	C
25	BA	2185	C
25	BA	2192	G
25	BA	2193	G
25	BA	2194	G
25	BA	2195	C
25	BA	2196	C
25	BA	2198	A
25	BA	2206	C
25	BA	2208	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	2209	C
25	BA	2210	G
25	BA	2211	G
25	BA	2212	A
25	BA	2213	U
25	BA	2215	G
25	BA	2217	G
25	BA	2219	G
25	BA	2226	C
25	BA	2236	C
25	BA	2237	G
25	BA	2238	G
25	BA	2239	G
25	BA	2240	C
25	BA	2245	U
25	BA	2250	G
25	BA	2251	G
25	BA	2254	C
25	BA	2257	U
25	BA	2265	U
25	BA	2266	A
25	BA	2267	A
25	BA	2268	A
25	BA	2269	A
25	BA	2276	G
25	BA	2278	A
25	BA	2281	C
25	BA	2283	C
25	BA	2284	C
25	BA	2286	A
25	BA	2287	A
25	BA	2288	A
25	BA	2289	G
25	BA	2290	G
25	BA	2297	C
25	BA	2305	A
25	BA	2306	C
25	BA	2307	G
25	BA	2308	G
25	BA	2309	A
25	BA	2310	A
25	BA	2311	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	2312	U
25	BA	2316	C
25	BA	2318	G
25	BA	2319	G
25	BA	2320	A
25	BA	2321	G
25	BA	2322	A
25	BA	2326	C
25	BA	2327	A
25	BA	2332	U
25	BA	2333	A
25	BA	2334	G
25	BA	2337	G
25	BA	2342	C
25	BA	2345	G
25	BA	2346	A
25	BA	2347	C
25	BA	2350	C
25	BA	2351	G
25	BA	2352	A
25	BA	2357	U
25	BA	2358	G
25	BA	2361	A
25	BA	2371	G
25	BA	2372	G
25	BA	2373	G
25	BA	2376	A
25	BA	2378	A
25	BA	2379	G
25	BA	2383	G
25	BA	2384	G
25	BA	2385	C
25	BA	2387	U
25	BA	2388	A
25	BA	2389	G
25	BA	2390	U
25	BA	2392	A
25	BA	2393	A
25	BA	2403	C
25	BA	2405	G
25	BA	2406	U
25	BA	2407	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	2415	G
25	BA	2417	C
25	BA	2423	U
25	BA	2424	C
25	BA	2425	A
25	BA	2426	A
25	BA	2427	C
25	BA	2428	G
25	BA	2429	G
25	BA	2430	A
25	BA	2431	U
25	BA	2432	A
25	BA	2433	A
25	BA	2434	A
25	BA	2435	A
25	BA	2437	U
25	BA	2439	A
25	BA	2440	C
25	BA	2445	G
25	BA	2448	A
25	BA	2449	U
25	BA	2450	A
25	BA	2451	A
25	BA	2459	A
25	BA	2465	C
25	BA	2469	A
25	BA	2470	G
25	BA	2475	C
25	BA	2476	A
25	BA	2480	C
25	BA	2489	G
25	BA	2490	G
25	BA	2491	U
25	BA	2492	U
25	BA	2493	U
25	BA	2497	A
25	BA	2498	C
25	BA	2499	C
25	BA	2501	C
25	BA	2502	G
25	BA	2503	A
25	BA	2504	U

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Mol	Chain	Res	Type
25	BA	2505	G
25	BA	2506	U
25	BA	2513	G
25	BA	2518	A
25	BA	2520	C
25	BA	2521	C
25	BA	2523	G
25	BA	2525	G
25	BA	2526	G
25	BA	2527	C
25	BA	2529	G
25	BA	2530	A
25	BA	2531	A
25	BA	2532	G
25	BA	2538	C
25	BA	2542	A
25	BA	2543	G
25	BA	2547	U
25	BA	2548	G
25	BA	2549	G
25	BA	2550	G
25	BA	2551	C
25	BA	2554	U
25	BA	2556	C
25	BA	2562	U
25	BA	2564	A
25	BA	2566	A
25	BA	2567	G
25	BA	2571	C
25	BA	2572	A
25	BA	2573	C
25	BA	2576	G
25	BA	2577	A
25	BA	2578	G
25	BA	2580	U
25	BA	2581	G
25	BA	2582	G
25	BA	2584	U
25	BA	2585	U
25	BA	2593	U
25	BA	2597	G
25	BA	2598	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	2599	G
25	BA	2602	A
25	BA	2603	G
25	BA	2604	U
25	BA	2606	C
25	BA	2607	G
25	BA	2609	U
25	BA	2610	C
25	BA	2611	U
25	BA	2612	C
25	BA	2614	A
25	BA	2615	U
25	BA	2616	C
25	BA	2617	C
25	BA	2622	C
25	BA	2625	G
25	BA	2626	C
25	BA	2629	A
25	BA	2630	G
25	BA	2634	G
25	BA	2635	C
25	BA	2637	U
25	BA	2644	G
25	BA	2645	G
25	BA	2654	A
25	BA	2655	G
25	BA	2656	U
25	BA	2663	G
25	BA	2665	A
25	BA	2666	C
25	BA	2668	G
25	BA	2682	U
25	BA	2683	C
25	BA	2685	G
25	BA	2689	U
25	BA	2690	C
25	BA	2691	C
25	BA	2701	C
25	BA	2702	U
25	BA	2703	C
25	BA	2706	G
25	BA	2707	G

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Mol	Chain	Res	Type
25	BA	2708	G
25	BA	2712	U
25	BA	2712(A)	A
25	BA	2713	A
25	BA	2714	G
25	BA	2719	G
25	BA	2720	U
25	BA	2725	A
25	BA	2726	U
25	BA	2727	G
25	BA	2733	A
25	BA	2734	A
25	BA	2742	C
25	BA	2744	G
25	BA	2746	U
25	BA	2748	A
25	BA	2749	A
25	BA	2750	A
25	BA	2751	G
25	BA	2752	C
25	BA	2756	U
25	BA	2757	A
25	BA	2758	A
25	BA	2770	G
25	BA	2772	C
25	BA	2777	G
25	BA	2778	A
25	BA	2779	U
25	BA	2780	G
25	BA	2781	A
25	BA	2782	G
25	BA	2783	G
25	BA	2787	C
25	BA	2790	A
25	BA	2791	C
25	BA	2794	C
25	BA	2795	G
25	BA	2797	U
25	BA	2798	C
25	BA	2799	A
25	BA	2801	A
25	BA	2803	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	2804	C
25	BA	2805	G
25	BA	2807	G
25	BA	2808	U
25	BA	2809	A
25	BA	2810	A
25	BA	2813	A
25	BA	2814	C
25	BA	2815	C
25	BA	2818	G
25	BA	2820	A
25	BA	2821	A
25	BA	2822	G
25	BA	2823	A
25	BA	2827	C
25	BA	2832	U
25	BA	2833	G
25	BA	2834	G
25	BA	2836	U
25	BA	2845	G
25	BA	2847	U
25	BA	2849	U
25	BA	2850	A
25	BA	2851	A
25	BA	2852	G
25	BA	2853	C
25	BA	2858	C
25	BA	2860	A
25	BA	2866	U
25	BA	2867	G
25	BA	2868	A
25	BA	2872	G
25	BA	2874	C
25	BA	2876	G
25	BA	2877	G
25	BA	2878	U
25	BA	2879	C
25	BA	2880	C
25	BA	2883	A
25	BA	2893	G
25	BA	2894	G
25	BA	2900	A

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Mol	Chain	Res	Type
25	BA	2902	C
26	BB	0	A
26	BB	1	U
26	BB	2	C
26	BB	3	C
26	BB	6	C
26	BB	7	G
26	BB	8	U
26	BB	12	C
26	BB	13	A
26	BB	15	A
26	BB	16	G
26	BB	23	G
26	BB	25	A
26	BB	32	C
26	BB	40	U
26	BB	41	U
26	BB	42	C
26	BB	43	C
26	BB	45	A
26	BB	46	A
26	BB	51	G
26	BB	54	G
26	BB	57	A
26	BB	59	A
26	BB	62	C
26	BB	66	A
26	BB	67	G
26	BB	69	G
26	BB	73	A
26	BB	75	G
26	BB	86	G
26	BB	87	G
26	BB	88	C
26	BB	89	G
26	BB	90	C
26	BB	96	G
26	BB	99	A
26	BB	101	A
26	BB	104	A
26	BB	105	G
26	BB	109	G

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Mol	Chain	Res	Type
26	BB	110	G
26	BB	111	U
26	BB	117	G
26	BB	118	G
26	BB	120	U

All (480) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	7	G
1	AA	8	A
1	AA	13	U
1	AA	30	U
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	60	A
1	AA	88	C
1	AA	99	C
1	AA	109	A
1	AA	115	G
1	AA	119	A
1	AA	121	C
1	AA	129(A)	G
1	AA	190	G
1	AA	197	A
1	AA	208	U
1	AA	209	U
1	AA	210	U
1	AA	243	A
1	AA	244	U
1	AA	246	A
1	AA	250	A
1	AA	251	G
1	AA	266	G
1	AA	274	A
1	AA	279	A
1	AA	280	C
1	AA	281	G
1	AA	305	G
1	AA	308	C

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Mol	Chain	Res	Type
1	AA	327	A
1	AA	328	C
1	AA	329	A
1	AA	344	A
1	AA	345	C
1	AA	351	G
1	AA	366	C
1	AA	367	U
1	AA	372	C
1	AA	413	G
1	AA	428	G
1	AA	429	U
1	AA	451	A
1	AA	481	G
1	AA	484	G
1	AA	495	A
1	AA	496	A
1	AA	498	A
1	AA	508	C
1	AA	511	C
1	AA	517	G
1	AA	518	C
1	AA	531	U
1	AA	533	A
1	AA	535	A
1	AA	547	A
1	AA	559	A
1	AA	560	U
1	AA	566	G
1	AA	575	G
1	AA	576	G
1	AA	652	U
1	AA	653	A
1	AA	686	U
1	AA	687	A
1	AA	701	C
1	AA	702	A
1	AA	703	G
1	AA	717	C
1	AA	721	G
1	AA	723	U
1	AA	727	G

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Mol	Chain	Res	Type
1	AA	748	C
1	AA	752	G
1	AA	753	A
1	AA	781	A
1	AA	792	A
1	AA	793	U
1	AA	812	C
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	870	U
1	AA	871	U
1	AA	872	A
1	AA	873	A
1	AA	889	A
1	AA	890	G
1	AA	913	A
1	AA	918	A
1	AA	960	U
1	AA	965	A
1	AA	968	A
1	AA	974	A
1	AA	975	A
1	AA	982	U
1	AA	992	U
1	AA	993	G
1	AA	1004	A
1	AA	1049	U
1	AA	1065	U
1	AA	1067	A
1	AA	1085	U
1	AA	1100	C
1	AA	1101	A
1	AA	1123	A
1	AA	1129	C
1	AA	1145	C
1	AA	1159	U
1	AA	1182	G
1	AA	1196	U
1	AA	1214	C

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Mol	Chain	Res	Type
1	AA	1224	G
1	AA	1226	C
1	AA	1240	U
1	AA	1257	U
1	AA	1280	A
1	AA	1285	A
1	AA	1297	C
1	AA	1300	G
1	AA	1302	U
1	AA	1316	G
1	AA	1322	C
1	AA	1331	G
1	AA	1345	U
1	AA	1346	A
1	AA	1347	G
1	AA	1363	A
1	AA	1377	A
1	AA	1380	U
1	AA	1394	A
1	AA	1396	A
1	AA	1399	C
1	AA	1400	C
1	AA	1408	A
1	AA	1442	G
1	AA	1446	A
1	AA	1452	C
1	AA	1468	A
1	AA	1502	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1528	U
1	AA	1529	G
1	AA	1531	A
2	AC	7	G
2	AC	9	G
2	AC	19	G
2	AC	35	A
2	AC	58	A
2	AC	60	U
2	AC	73	A
3	AD	35	A

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Mol	Chain	Res	Type
3	AD	58	A
3	AD	73	A
4	A1	18	G
25	BA	51	G
25	BA	60	G
25	BA	70	G
25	BA	71	A
25	BA	72	U
25	BA	83	G
25	BA	90	U
25	BA	119	A
25	BA	120	U
25	BA	125	G
25	BA	162	U
25	BA	177	G
25	BA	196	A
25	BA	199	A
25	BA	204	A
25	BA	205	G
25	BA	215	G
25	BA	221	A
25	BA	222	A
25	BA	242	G
25	BA	270(B)	A
25	BA	270(L)	U
25	BA	270(M)	U
25	BA	271(B)	G
25	BA	280	C
25	BA	283	A
25	BA	311	A
25	BA	323	G
25	BA	329	G
25	BA	331	A
25	BA	332	A
25	BA	350	U
25	BA	351	G
25	BA	371	A
25	BA	385	C
25	BA	387	U
25	BA	403	U
25	BA	404	C
25	BA	411	G

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Mol	Chain	Res	Type
25	BA	442	G
25	BA	446	G
25	BA	448	U
25	BA	455	C
25	BA	458	G
25	BA	470	A
25	BA	474	G
25	BA	479	A
25	BA	503	A
25	BA	504	U
25	BA	508	G
25	BA	525	U
25	BA	530	G
25	BA	532	A
25	BA	554	U
25	BA	559	G
25	BA	562	U
25	BA	572	A
25	BA	573	G
25	BA	574	C
25	BA	583	G
25	BA	587	C
25	BA	616	A
25	BA	620	G
25	BA	637	A
25	BA	643	A
25	BA	669	G
25	BA	670	A
25	BA	685	A
25	BA	686	G
25	BA	687	C
25	BA	696	G
25	BA	704	G
25	BA	740	U
25	BA	747	U
25	BA	752	A
25	BA	762	U
25	BA	764	A
25	BA	773	U
25	BA	774	A
25	BA	776	G
25	BA	782	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	783	A
25	BA	785	G
25	BA	787	U
25	BA	788	A
25	BA	789	A
25	BA	790	C
25	BA	791	C
25	BA	793	A
25	BA	794	G
25	BA	800	A
25	BA	801	G
25	BA	811	U
25	BA	829	A
25	BA	830	G
25	BA	845	G
25	BA	846	C
25	BA	858	U
25	BA	917	A
25	BA	930	U
25	BA	944	G
25	BA	945	A
25	BA	957	A
25	BA	958	U
25	BA	961	C
25	BA	973	A
25	BA	974(A)	C
25	BA	982	C
25	BA	989	G
25	BA	1011	G
25	BA	1022	G
25	BA	1033	U
25	BA	1085	A
25	BA	1100	C
25	BA	1110	G
25	BA	1126	A
25	BA	1128	A
25	BA	1130	U
25	BA	1131	G
25	BA	1140	C
25	BA	1143	A
25	BA	1178	C
25	BA	1179	C

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Mol	Chain	Res	Type
25	BA	1183	G
25	BA	1197	G
25	BA	1203	G
25	BA	1204	A
25	BA	1205	U
25	BA	1206	G
25	BA	1210	A
25	BA	1220	A
25	BA	1221	C
25	BA	1223	C
25	BA	1237	A
25	BA	1247	A
25	BA	1248	G
25	BA	1250	G
25	BA	1265	A
25	BA	1267	U
25	BA	1272	A
25	BA	1275	A
25	BA	1288	U
25	BA	1300	U
25	BA	1302	A
25	BA	1323	U
25	BA	1324	G
25	BA	1332	G
25	BA	1342	A
25	BA	1349	A
25	BA	1378	A
25	BA	1406	U
25	BA	1427	A
25	BA	1428	C
25	BA	1444(A)	A
25	BA	1460	A
25	BA	1477	A
25	BA	1480	G
25	BA	1489	U
25	BA	1498	C
25	BA	1514	U
25	BA	1515	C
25	BA	1528	A
25	BA	1544	C
25	BA	1552	G
25	BA	1553	A

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Mol	Chain	Res	Type
25	BA	1554	A
25	BA	1560	G
25	BA	1566	A
25	BA	1568	G
25	BA	1571	A
25	BA	1585	C
25	BA	1602	U
25	BA	1608	A
25	BA	1610	A
25	BA	1616	A
25	BA	1617	C
25	BA	1618	A
25	BA	1625	C
25	BA	1626	G
25	BA	1634	A
25	BA	1647	G
25	BA	1650	G
25	BA	1663	C
25	BA	1668	A
25	BA	1673	U
25	BA	1674	G
25	BA	1681	G
25	BA	1693	U
25	BA	1694	C
25	BA	1698	A
25	BA	1699	G
25	BA	1706	U
25	BA	1727	U
25	BA	1778	U
25	BA	1780	A
25	BA	1782	C
25	BA	1784	A
25	BA	1800	C
25	BA	1815	A
25	BA	1819	A
25	BA	1820	U
25	BA	1828	G
25	BA	1929	G
25	BA	1930	G
25	BA	1936	A
25	BA	1937	A
25	BA	1938	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BA	1943	U
25	BA	1954	G
25	BA	1964	G
25	BA	1966	A
25	BA	1967	C
25	BA	1970	A
25	BA	1980	G
25	BA	1988	C
25	BA	1992	G
25	BA	2021	C
25	BA	2022	U
25	BA	2032	G
25	BA	2033	A
25	BA	2035	G
25	BA	2047	U
25	BA	2049	G
25	BA	2051	A
25	BA	2061	G
25	BA	2067	G
25	BA	2076	U
25	BA	2092	U
25	BA	2110	G
25	BA	2111	C
25	BA	2118	U
25	BA	2119	A
25	BA	2126	A
25	BA	2130	U
25	BA	2135	A
25	BA	2157	G
25	BA	2158	A
25	BA	2171	A
25	BA	2172	U
25	BA	2195	C
25	BA	2210	G
25	BA	2213	U
25	BA	2225	A
25	BA	2238	G
25	BA	2240	C
25	BA	2244	U
25	BA	2249	U
25	BA	2250	G
25	BA	2253	G

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Mol	Chain	Res	Type
25	BA	2275	C
25	BA	2282	G
25	BA	2319	G
25	BA	2344	U
25	BA	2346	A
25	BA	2384	G
25	BA	2389	G
25	BA	2391	G
25	BA	2422	A
25	BA	2423	U
25	BA	2425	A
25	BA	2433	A
25	BA	2436	G
25	BA	2439	A
25	BA	2447	G
25	BA	2489	G
25	BA	2490	G
25	BA	2491	U
25	BA	2492	U
25	BA	2497	A
25	BA	2500	U
25	BA	2501	C
25	BA	2503	A
25	BA	2517	C
25	BA	2519	U
25	BA	2531	A
25	BA	2542	A
25	BA	2566	A
25	BA	2572	A
25	BA	2588	G
25	BA	2602	A
25	BA	2609	U
25	BA	2610	C
25	BA	2611	U
25	BA	2614	A
25	BA	2615	U
25	BA	2655	G
25	BA	2662	A
25	BA	2664	G
25	BA	2665	A
25	BA	2682	U
25	BA	2689	U

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Mol	Chain	Res	Type
25	BA	2690	C
25	BA	2705	A
25	BA	2712	U
25	BA	2713	A
25	BA	2720	U
25	BA	2726	U
25	BA	2755	C
25	BA	2756	U
25	BA	2776	A
25	BA	2777	G
25	BA	2778	A
25	BA	2789	C
25	BA	2790	A
25	BA	2799	A
25	BA	2835	A
25	BA	2848	G
25	BA	2849	U
25	BA	2866	U
25	BA	2867	G
25	BA	2873	A
25	BA	2879	C
25	BA	2893	G
26	BB	6	C
26	BB	7	G
26	BB	15	A
26	BB	44	G
26	BB	56	G

## 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
25	BA	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BA	1202:C	O3'	1203:G	P	1.97
1	BA	1203:G	O3'	1204:A	P	1.19



## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	AA	1515/1522 (99%)	-0.79	2 (0%) 95 95	188, 245, 349, 445	0
2	AC	76/76 (100%)	-0.95	0 100 100	213, 249, 283, 294	0
3	AD	76/76 (100%)	-0.82	0 100 100	301, 334, 358, 368	0
4	A1	27/27 (100%)	0.91	7 (25%) 1 2	225, 347, 415, 416	0
5	AE	234/256 (91%)	-0.23	10 (4%) 39 30	218, 248, 286, 307	0
6	AF	206/239 (86%)	0.29	14 (6%) 20 15	246, 269, 288, 296	0
7	AG	208/209 (99%)	-0.78	0 100 100	202, 233, 251, 265	0
8	AH	150/162 (92%)	-0.54	1 (0%) 89 84	202, 220, 245, 262	0
9	AI	101/101 (100%)	0.39	6 (5%) 26 19	219, 237, 254, 271	0
10	AJ	155/156 (99%)	0.19	8 (5%) 31 24	250, 273, 285, 301	0
11	AK	138/138 (100%)	-0.79	0 100 100	203, 222, 236, 246	0
12	AL	127/128 (99%)	-0.47	0 100 100	247, 317, 349, 353	0
13	AM	98/105 (93%)	0.36	12 (12%) 5 6	256, 296, 311, 317	0
14	AN	119/129 (92%)	-0.20	2 (1%) 73 64	214, 234, 252, 279	0
15	AO	124/132 (93%)	-0.26	0 100 100	189, 217, 243, 263	0
16	AP	125/126 (99%)	-0.66	0 100 100	253, 281, 302, 306	0
17	AQ	60/61 (98%)	-0.40	0 100 100	243, 273, 286, 290	0
18	AR	88/89 (98%)	-1.03	0 100 100	199, 222, 244, 251	0
19	AS	83/88 (94%)	-0.88	0 100 100	192, 212, 232, 267	0
20	AT	104/105 (99%)	-1.08	0 100 100	192, 218, 252, 296	0
21	AU	73/88 (82%)	-0.44	3 (4%) 41 32	192, 228, 255, 277	0
22	AV	80/93 (86%)	0.35	7 (8%) 12 10	251, 287, 306, 310	0
23	AW	99/106 (93%)	-0.93	0 100 100	200, 228, 250, 254	0
24	AX	24/27 (88%)	-1.05	0 100 100	268, 289, 303, 306	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
25	BA	2889/2916 (99%)	-0.78	3 (0%) 95 95	168, 241, 340, 398	0
26	BB	123/123 (100%)	-0.56	0 100 100	236, 293, 329, 343	0
27	BC	228/229 (99%)	1.07	58 (25%) 1 2	299, 326, 342, 347	0
28	BD	272/276 (98%)	-0.10	8 (2%) 55 44	184, 216, 235, 256	0
29	BE	206/206 (100%)	-0.59	3 (1%) 76 67	155, 205, 250, 276	0
30	BF	208/210 (99%)	-0.56	0 100 100	186, 255, 283, 288	0
31	BG	182/182 (100%)	-0.53	2 (1%) 82 76	247, 283, 306, 311	0
32	BH	174/180 (96%)	-0.37	2 (1%) 82 76	230, 260, 278, 284	0
33	BK	148/148 (100%)	-0.59	0 100 100	212, 241, 261, 265	0
34	BL	138/147 (93%)	0.69	25 (18%) 2 3	305, 358, 399, 403	0
35	BM	139/140 (99%)	-0.58	2 (1%) 78 69	187, 217, 245, 270	0
36	BN	122/122 (100%)	-0.65	0 100 100	172, 201, 228, 240	0
37	BO	145/150 (96%)	-0.16	10 (6%) 20 15	189, 271, 304, 346	0
38	BP	136/141 (96%)	-0.38	4 (2%) 55 44	199, 234, 257, 266	0
39	BQ	117/118 (99%)	-0.75	0 100 100	195, 214, 246, 256	0
40	BR	110/112 (98%)	-0.93	0 100 100	232, 266, 293, 300	0
41	BS	117/146 (80%)	-0.58	0 100 100	182, 205, 238, 244	0
42	BT	117/118 (99%)	-0.59	0 100 100	191, 221, 241, 250	0
43	BU	101/101 (100%)	-0.11	3 (2%) 54 42	190, 244, 272, 277	0
44	BV	110/113 (97%)	-0.40	1 (0%) 85 80	203, 226, 250, 260	0
45	BW	94/96 (97%)	-0.47	2 (2%) 67 57	237, 253, 304, 309	0
46	BX	110/110 (100%)	-0.28	3 (2%) 58 48	244, 282, 303, 312	0
47	BY	180/206 (87%)	-0.07	1 (0%) 90 86	235, 267, 281, 287	0
48	BZ	85/85 (100%)	-0.99	0 100 100	236, 259, 272, 289	0
49	B1	67/67 (100%)	-0.60	0 100 100	251, 264, 276, 281	0
50	B2	59/60 (98%)	-0.55	1 (1%) 73 64	208, 244, 261, 268	0
51	B3	71/71 (100%)	-0.93	0 100 100	212, 239, 259, 276	0
52	B4	57/60 (95%)	-0.59	0 100 100	200, 227, 276, 299	0
53	B5	49/54 (90%)	-0.34	2 (4%) 41 32	211, 247, 269, 277	0
54	B6	49/49 (100%)	-0.88	0 100 100	189, 228, 244, 250	0
55	B7	64/65 (98%)	-0.79	0 100 100	201, 220, 235, 247	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å <sup>2</sup> )	Q<0.9
56	B8	37/37 (100%)	-1.10	0	100	100	212, 230, 240, 244	0
All	All	10794/11077 (97%)	-0.53	202 (1%)	70	61	155, 245, 336, 445	0

All (202) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
37	BO	123	LEU	13.2
4	A1	1	G	10.6
27	BC	126	LYS	10.0
27	BC	125	SER	9.6
27	BC	121	GLY	8.9
27	BC	132	GLY	7.7
34	BL	138	VAL	7.3
5	AE	237	ALA	7.1
27	BC	122	ALA	7.0
27	BC	129	ARG	6.5
27	BC	128	GLY	5.9
27	BC	124	GLY	5.6
9	AI	8	ILE	5.5
27	BC	74	VAL	5.4
34	BL	17	ALA	5.3
34	BL	85	GLU	5.2
32	BH	177	GLY	5.1
4	A1	2	G	5.0
1	AA	1542	U	5.0
27	BC	91	ALA	4.9
27	BC	140	PRO	4.8
6	AF	79	ARG	4.7
31	BG	71	THR	4.7
5	AE	231	GLU	4.6
27	BC	89	ALA	4.6
27	BC	88	GLU	4.6
27	BC	90	GLY	4.6
27	BC	127	LEU	4.4
27	BC	80	GLY	4.3
27	BC	1	PRO	4.3
27	BC	100	ILE	4.1
6	AF	80	GLY	4.1
34	BL	139	VAL	4.1
5	AE	238	LEU	4.0
37	BO	144	GLU	4.0
28	BD	69	ARG	4.0

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Mol	Chain	Res	Type	RSRZ
27	BC	123	VAL	4.0
38	BP	141	GLN	4.0
38	BP	140	ALA	4.0
5	AE	235	SER	3.9
27	BC	118	ASP	3.8
45	BW	96	ILE	3.8
27	BC	79	LYS	3.7
21	AU	19	LYS	3.7
6	AF	150	LYS	3.7
34	BL	96	VAL	3.7
27	BC	101	GLN	3.7
31	BG	149	VAL	3.7
27	BC	98	GLU	3.6
27	BC	78	ALA	3.6
27	BC	97	GLU	3.6
34	BL	18	THR	3.6
34	BL	16	LYS	3.6
27	BC	75	LEU	3.6
37	BO	121	LYS	3.5
4	A1	3	C	3.5
34	BL	94	GLU	3.5
44	BV	24	ILE	3.4
10	AJ	53	LYS	3.4
4	A1	24	A	3.4
27	BC	130	ILE	3.4
9	AI	10	LEU	3.4
46	BX	85	VAL	3.4
6	AF	201	TYR	3.4
10	AJ	63	LYS	3.3
27	BC	96	GLY	3.3
27	BC	137	LEU	3.3
1	AA	84	U	3.2
47	BY	134	PRO	3.2
27	BC	86	ALA	3.2
34	BL	35	MET	3.2
28	BD	103	ARG	3.2
27	BC	104	LEU	3.1
27	BC	131	LEU	3.1
6	AF	149	ALA	3.1
9	AI	61	LEU	3.1
27	BC	81	GLU	3.1
27	BC	133	PRO	3.0

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Mol	Chain	Res	Type	RSRZ
37	BO	83	VAL	3.0
43	BU	13	ARG	3.0
6	AF	200	ALA	2.9
27	BC	2	LYS	2.9
37	BO	122	PRO	2.9
43	BU	96	ILE	2.9
6	AF	168	ALA	2.9
4	A1	26	A	2.9
34	BL	93	ARG	2.9
27	BC	84	LYS	2.8
27	BC	150	GLY	2.8
34	BL	43	ALA	2.8
34	BL	39	LYS	2.8
27	BC	87	GLU	2.8
27	BC	112	ALA	2.8
34	BL	97	GLY	2.8
34	BL	84	LEU	2.8
27	BC	110	PHE	2.8
45	BW	89	ILE	2.8
34	BL	42	ASN	2.8
27	BC	176	GLY	2.7
6	AF	57	ILE	2.7
4	A1	25	A	2.7
28	BD	167	GLY	2.7
34	BL	13	PRO	2.7
5	AE	230	VAL	2.7
27	BC	151	GLU	2.6
34	BL	90	LYS	2.6
27	BC	85	GLU	2.6
27	BC	99	ILE	2.6
10	AJ	62	PHE	2.6
13	AM	89	ASP	2.6
9	AI	9	VAL	2.6
10	AJ	59	LEU	2.6
28	BD	119	ALA	2.6
46	BX	86	ARG	2.6
34	BL	88	ALA	2.6
13	AM	19	SER	2.6
13	AM	91	PRO	2.6
35	BM	2	LYS	2.5
27	BC	108	MET	2.5
34	BL	44	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
14	AN	109	VAL	2.5
27	BC	154	ARG	2.5
13	AM	90	LEU	2.5
21	AU	17	SER	2.5
46	BX	87	LYS	2.5
10	AJ	66	VAL	2.4
10	AJ	61	VAL	2.4
5	AE	234	PRO	2.4
27	BC	180	PHE	2.4
13	AM	23	ILE	2.4
22	AV	49	ILE	2.4
29	BE	94	GLU	2.4
34	BL	101	TRP	2.4
5	AE	236	TYR	2.4
27	BC	139	ASN	2.4
21	AU	18	ARG	2.4
27	BC	76	ALA	2.4
34	BL	137	GLU	2.4
28	BD	184	LYS	2.3
53	B5	36	LEU	2.3
37	BO	95	VAL	2.3
27	BC	179	SER	2.3
37	BO	91	PHE	2.3
34	BL	45	THR	2.3
35	BM	4	TYR	2.3
27	BC	120	MET	2.3
27	BC	149	ILE	2.3
10	AJ	60	LYS	2.3
53	B5	51	GLU	2.3
13	AM	78	ASN	2.3
6	AF	66	VAL	2.3
6	AF	173	VAL	2.3
25	BA	1064	C	2.3
27	BC	95	GLY	2.2
22	AV	60	VAL	2.2
37	BO	84	ASN	2.2
28	BD	108	PRO	2.2
38	BP	107	ALA	2.2
25	BA	1490	A	2.2
22	AV	61	TYR	2.2
28	BD	197	GLY	2.2
37	BO	119	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
9	AI	53	ALA	2.2
8	AH	110	LEU	2.2
9	AI	52	ILE	2.2
6	AF	75	VAL	2.2
27	BC	138	PRO	2.2
32	BH	20	ALA	2.2
13	AM	82	ILE	2.1
37	BO	124	LYS	2.1
10	AJ	58	PRO	2.1
27	BC	103	ILE	2.1
6	AF	108	ASN	2.1
22	AV	75	ALA	2.1
6	AF	148	GLY	2.1
29	BE	174	ASP	2.1
13	AM	79	ARG	2.1
22	AV	48	THR	2.1
29	BE	182	LEU	2.1
34	BL	98	ARG	2.1
13	AM	18	ALA	2.1
25	BA	1067	A	2.1
22	AV	47	HIS	2.1
13	AM	81	THR	2.1
4	A1	27	A	2.1
13	AM	85	LEU	2.0
38	BP	33	GLY	2.0
5	AE	156	LYS	2.0
22	AV	62	ILE	2.0
34	BL	47	ASN	2.0
14	AN	81	ASP	2.0
27	BC	105	ASP	2.0
6	AF	151	VAL	2.0
13	AM	10	GLY	2.0
5	AE	68	ILE	2.0
27	BC	184	LYS	2.0
5	AE	239	VAL	2.0
50	B2	35	ARG	2.0
34	BL	19	PRO	2.0
27	BC	82	LYS	2.0
43	BU	98	GLU	2.0
28	BD	183	ARG	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 6.4 Ligands [i](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.