



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:03 PM UTC

PDB ID : 5EL5 / pdb_00005el5
Title : Structure of T. thermophilus 70S ribosome complex with mRNA and tRNA^{Lys} in the A-site with a U-U mismatch in the second position
Authors : Rozov, A.; Demeshkina, N.; Khusainov, I.; Yusupov, M.; Yusupova, G.
Deposited on : 2015-11-04
Resolution : 3.15 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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

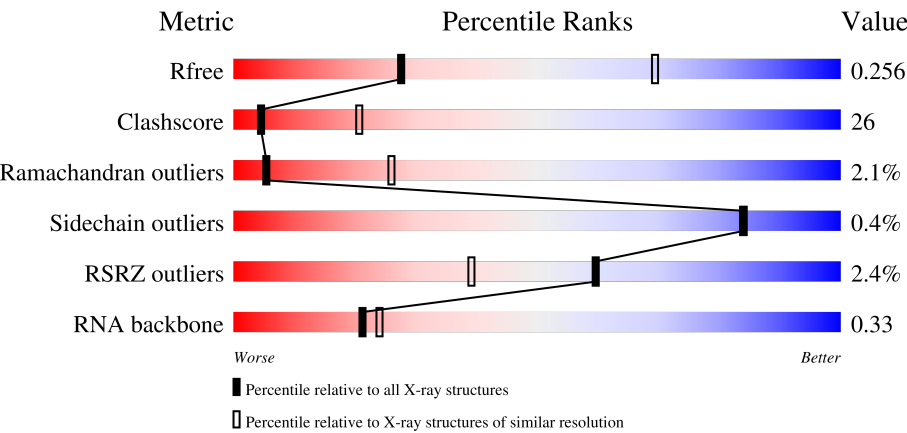
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.15 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.



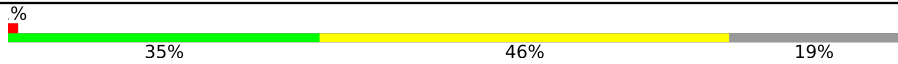
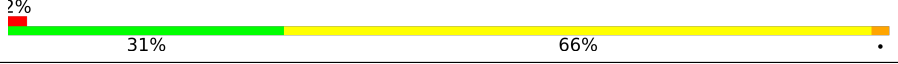
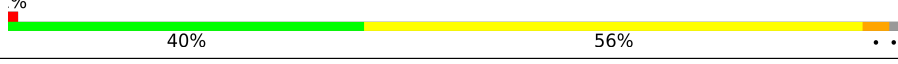
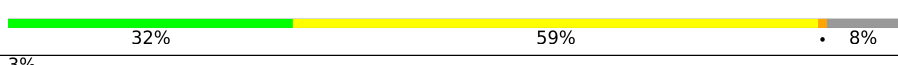
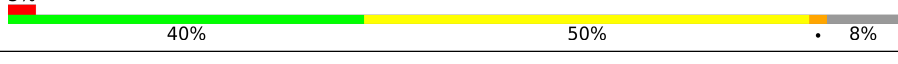
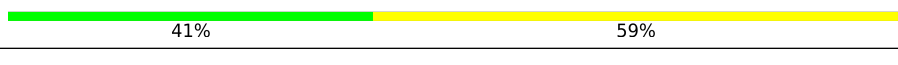
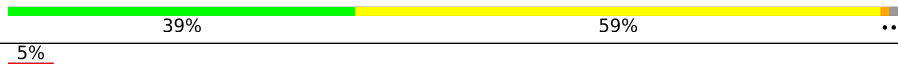
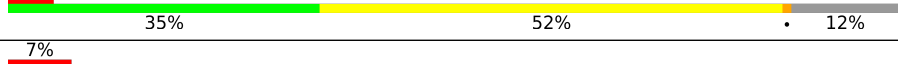
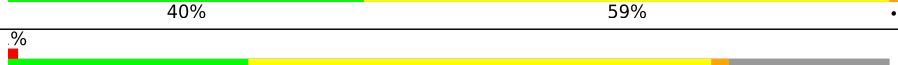
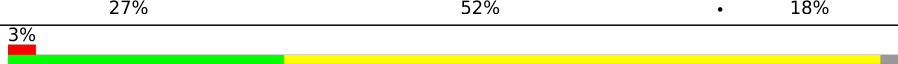
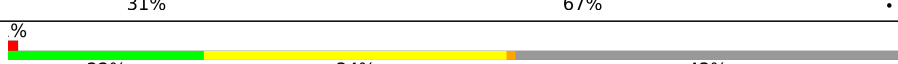
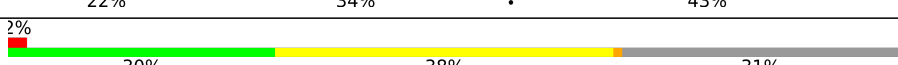
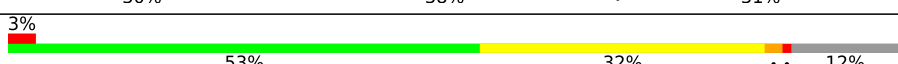
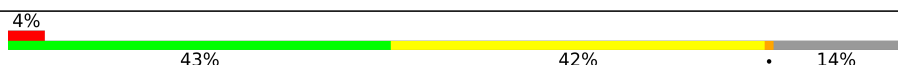
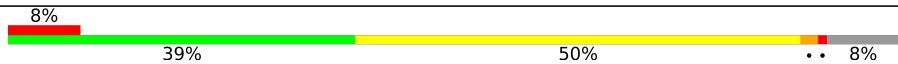
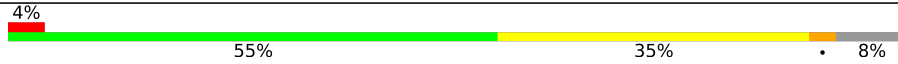
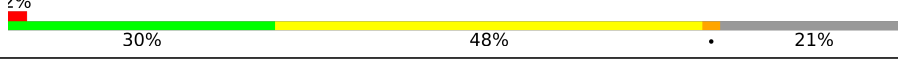
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	2361 (3.20-3.12)
Clashscore	190562	2486 (3.20-3.12)
Ramachandran outliers	187476	2405 (3.20-3.12)
Sidechain outliers	187428	2404 (3.20-3.12)
RSRZ outliers	180081	2361 (3.20-3.12)
RNA backbone	3983	1113 (3.42-2.90)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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	13	1522	3% 29%50%18%..
1	1G	1522	2% 24%53%22%.
2	12	256	27%50%.20%
2	1E	256	34%54%.10%

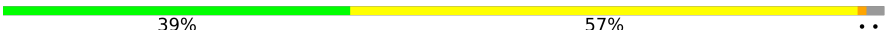
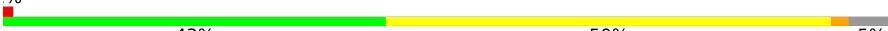
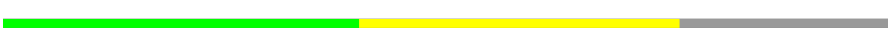
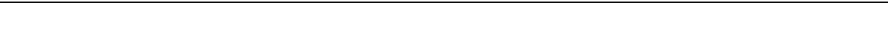
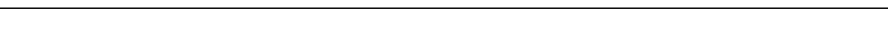
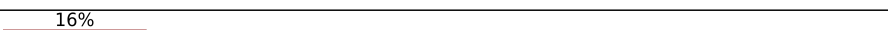
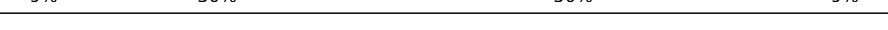
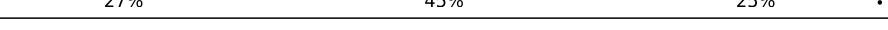
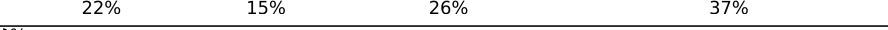
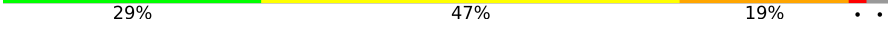
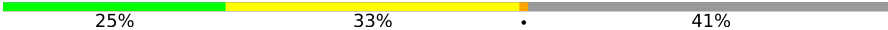
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Mol	Chain	Length	Quality of chain
3	22	239	
3	2E	239	
4	32	209	
4	3E	209	
5	42	162	
5	4E	162	
6	52	101	
6	5E	101	
7	62	156	
7	6E	156	
8	72	138	
8	7E	138	
9	82	128	
9	8E	128	
10	1A	105	
10	1I	105	
11	2A	129	
11	2I	129	
12	3A	132	
12	3I	132	
13	4A	126	
13	4I	126	
14	5A	61	
14	5I	61	
15	6A	89	

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Mol	Chain	Length	Quality of chain
15	6I	89	
16	7A	88	
16	7I	88	
17	8A	105	
17	8I	105	
18	9A	88	
18	9I	88	
19	AA	93	
19	AI	93	
20	BA	106	
20	BI	106	
21	1B	27	
21	1F	27	
22	1K	76	
23	2K	77	
23	2L	77	
24	3K	76	
25	4K	27	
25	4L	27	
26	14	2912	
26	1H	2912	
27	16	122	
27	1J	122	
28	7I	229	
29	11	276	

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Mol	Chain	Length	Quality of chain
29	19	276	
30	21	206	
30	29	206	
31	31	210	
31	39	210	
32	41	182	
32	49	182	
33	51	180	
33	59	180	
34	61	148	
34	69	148	
35	15	140	
35	58	140	
36	25	122	
36	68	122	
37	35	150	
37	78	150	
38	45	141	
38	88	141	
39	55	118	
39	98	118	
40	65	112	
40	A8	112	
41	75	146	
41	B8	146	

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Mol	Chain	Length	Quality of chain
42	85	118	
42	C8	118	
43	95	101	
43	D8	101	
44	A5	113	
44	E8	113	
45	B5	96	
45	F8	96	
46	C5	110	
46	G8	110	
47	D5	206	
47	H8	206	
48	E5	85	
48	I8	85	
49	F5	98	
49	J8	98	
50	G5	72	
50	K8	72	
51	H5	60	
51	L8	60	
52	M8	71	
53	J5	60	
53	N8	60	
54	L5	49	
54	P8	49	

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Mol	Chain	Length	Quality of chain
55	M5	65	
55	Q8	65	
56	1L	76	
57	3L	76	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	MG	13	1648	-	-	-	X
58	MG	14	3089	-	-	-	X
58	MG	14	3188	-	-	-	X
58	MG	14	3247	-	-	-	X
58	MG	14	3260	-	-	-	X
58	MG	14	3294	-	-	-	X
58	MG	1H	3141	-	-	-	X
58	MG	1H	3235	-	-	-	X
58	MG	1H	3289	-	-	-	X
59	SF4	32	302	-	-	X	-

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 292607 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 ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	13	1493	Total	C	N	O	P	0	0	0
			32097	14286	5951	10367	1493			
1	1G	1496	Total	C	N	O	P	0	0	0
			32152	14311	5953	10392	1496			

- Molecule 2 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	1E	231	Total	C	N	O	S	0	0	0
			1874	1199	334	336	5			
2	12	206	Total	C	N	O	S	0	0	0
			1695	1082	305	304	4			

- Molecule 3 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	2E	205	Total	C	N	O	S	0	0	0
			1605	1011	313	280	1			
3	22	194	Total	C	N	O	S	0	0	0
			1529	967	296	265	1			

- Molecule 4 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	3E	207	Total	C	N	O	S	0	0	0
			1696	1062	338	289	7			
4	32	208	Total	C	N	O	S	0	0	0
			1702	1066	339	290	7			

- Molecule 5 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	4E	149	Total	C	N	O	S	0	0	0
			1142	722	216	200	4			
5	42	149	Total	C	N	O	S	0	0	0
			1136	716	216	200	4			

- Molecule 6 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	5E	100	Total	C	N	O	S	0	0	0
			837	528	154	152	3			
6	52	101	Total	C	N	O	S	0	0	0
			842	531	155	153	3			

- Molecule 7 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	6E	151	Total	C	N	O	S	0	0	0
			1229	763	247	213	6			
7	62	138	Total	C	N	O	S	0	0	0
			1110	689	221	194	6			

- Molecule 8 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	7E	138	Total	C	N	O	S	0	0	0
			1115	705	215	192	3			
8	72	137	Total	C	N	O	S	0	0	0
			1107	700	214	191	2			

- Molecule 9 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	8E	126	Total	C	N	O		0	0	0
			1000	634	196	170				
9	82	105	Total	C	N	O		0	0	0
			820	523	158	139				

- Molecule 10 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	72	Total	C	N	O	S	0	0	0
			593	373	115	104	1			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	1A	60	Total	C	N	O	0	0	0
			474	298	91	85			

- Molecule 11 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
11	2I	111	Total	C	N	O	0	0	0
			823	512	154	154			
11	2A	113	Total	C	N	O	0	0	0
			835	520	156	156			

- Molecule 12 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
12	3I	122	Total	C	N	O	0	0	0
			956	603	193	159			
12	3A	121	Total	C	N	O	0	0	0
			947	597	191	158			

- Molecule 13 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	4I	119	Total	C	N	O	0	0	0
			942	582	194	164			
13	4A	111	Total	C	N	O	0	0	0
			893	552	183	156			

- Molecule 14 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	5I	60	Total	C	N	O	0	0	0
			491	312	104	71			
14	5A	48	Total	C	N	O	0	0	0
			388	245	82	57			

- Molecule 15 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	6I	87	Total	C	N	O	0	0	0
			729	457	146	124			
15	6A	87	Total	C	N	O	0	0	0
			729	457	146	124			

- Molecule 16 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	80	Total	C	N	O	S	0	0	0
			671	427	132	111	1			
16	7A	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			

- Molecule 17 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	8I	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			
17	8A	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 18 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	9I	67	Total	C	N	O	0	0	0
			544	349	104	91			
18	9A	67	Total	C	N	O	0	0	0
			544	349	104	91			

- Molecule 19 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AI	81	Total	C	N	O	S	0	0	0
			654	417	122	113	2			
19	AA	36	Total	C	N	O	S	0	0	0
			283	182	49	51	1			

- Molecule 20 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	BI	97	Total	C	N	O	S	0	0	0
			746	461	157	126	2			
20	BA	98	Total	C	N	O	S	0	0	0
			757	467	161	127	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	1F	23	Total	C	N	O	0	0	0
			199	122	48	29			
21	1B	23	Total	C	N	O	0	0	0
			204	126	49	29			

- Molecule 22 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
22	1K	69	Total	C	N	O	P	S	0	0	0
			1477	662	257	488	69	1			

- Molecule 23 is a RNA chain called tRNA^{fMet}.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
23	2K	77	Total	C	N	O	P	S	0	0	0
			1646	735	298	535	77	1			
23	2L	77	Total	C	N	O	P	S	0	0	0
			1646	735	298	535	77	1			

- Molecule 24 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	3K	76	Total	C	N	O	P	0	0	0
			1611	721	281	534	75			

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	4K	20	Total	C	N	O	P	0	0	0
			439	197	91	131	20			
25	4L	17	Total	C	N	O	P	0	0	0
			373	167	76	113	17			

- Molecule 26 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	1H	2830	Total	C	N	O	P	0	0	0
			60960	27129	11403	19598	2830			
26	14	2861	Total	C	N	O	P	0	0	0
			61630	27429	11535	19806	2860			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1H	161	U	UNK	conflict	GB 55771382
1H	654A	A	G	conflict	GB 55771382
1H	654E	C	G	conflict	GB 55771382
1H	654P	G	C	conflict	GB 55771382
1H	654T	A	C	conflict	GB 55771382
1H	1058	U	G	conflict	GB 55771382
1H	1080	A	C	conflict	GB 55771382
14	158	U	UNK	conflict	GB 55771382
14	654A	A	G	conflict	GB 55771382
14	654E	C	G	conflict	GB 55771382
14	654P	G	C	conflict	GB 55771382
14	654T	A	C	conflict	GB 55771382
14	1058	U	G	conflict	GB 55771382
14	1080	A	C	conflict	GB 55771382

- Molecule 27 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	16	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			
27	1J	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			

- Molecule 28 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	71	135	Total	C	N	O	S	0	0	0
			1050	662	197	190	1			

- Molecule 29 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	11	273	Total	C	N	O	S	0	0	0
			2120	1338	421	358	3			
29	19	273	Total	C	N	O	S	0	0	0
			2120	1338	421	358	3			

- Molecule 30 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	21	203	Total	C	N	O	S	0	0	0
			1558	985	298	269	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	29	203	Total	C	N	O	S	0	0	0
			1558	985	298	269	6			

- Molecule 31 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	31	202	Total	C	N	O	S	0	0	0
			1585	1011	297	275	2			
31	39	204	Total	C	N	O	S	0	0	0
			1602	1022	299	279	2			

- Molecule 32 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	41	179	Total	C	N	O	S	0	0	0
			1457	931	265	257	4			
32	49	179	Total	C	N	O	S	0	0	0
			1457	931	265	257	4			

- Molecule 33 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	51	171	Total	C	N	O	S	0	0	0
			1312	832	246	233	1			
33	59	69	Total	C	N	O		0	0	0
			539	339	109	91				

- Molecule 34 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	61	145	Total	C	N	O	S	0	0	0
			1131	723	200	207	1			
34	69	145	Total	C	N	O	S	0	0	0
			1131	723	200	207	1			

- Molecule 35 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	58	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			
35	15	137	Total	C	N	O	S	0	0	0
			1096	707	205	181	3			

- Molecule 36 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	68	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			
36	25	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			

- Molecule 37 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	78	147	Total	C	N	O	S	0	0	0
			1122	698	229	192	3			
37	35	148	Total	C	N	O	S	0	0	0
			1130	704	230	193	3			

- Molecule 38 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	88	141	Total	C	N	O	S	0	0	0
			1113	709	210	187	7			
38	45	138	Total	C	N	O	S	0	0	0
			1099	702	208	183	6			

- Molecule 39 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	98	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			
39	55	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			

- Molecule 40 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	A8	111	Total	C	N	O	0	0	0
			881	556	176	149			
40	65	110	Total	C	N	O	0	0	0
			876	553	175	148			

- Molecule 41 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	B8	135	Total	C	N	O	S	0	0	0
			1123	699	230	193	1			
41	75	136	Total	C	N	O		0	0	0
			1133	705	233	195				

- Molecule 42 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	C8	115	Total	C	N	O	S	0	0	0
			950	603	199	147	1			
42	85	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			

- Molecule 43 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	D8	101	Total	C	N	O	S	0	0	0
			778	501	142	134	1			
43	95	99	Total	C	N	O		0	0	0
			766	494	140	132				

- Molecule 44 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	E8	110	Total	C	N	O	S	0	0	0
			876	552	171	151	2			
44	A5	110	Total	C	N	O	S	0	0	0
			876	552	171	151	2			

- Molecule 45 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	F8	95	Total	C	N	O	0	0	0
			740	480	134	126			
45	B5	94	Total	C	N	O	0	0	0
			735	477	133	125			

- Molecule 46 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	G8	104	Total	C	N	O	S	0	0	0
			788	507	149	127	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	C5	105	Total	C	N	O	S	0	0	0
			799	513	153	128	5			

- Molecule 47 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	H8	148	Total	C	N	O	S	0	0	0
			1218	779	220	217	2			
47	D5	130	Total	C	N	O	S	0	0	0
			1064	685	191	186	2			

- Molecule 48 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	I8	76	Total	C	N	O	S	0	0	0
			606	376	128	101	1			
48	E5	78	Total	C	N	O	S	0	0	0
			616	381	130	104	1			

- Molecule 49 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	J8	94	Total	C	N	O	S	0	0	0
			737	463	146	127	1			
49	F5	94	Total	C	N	O	S	0	0	0
			737	463	146	127	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	K8	68	Total	C	N	O	S	0	0	0
			568	352	115	100	1			
50	G5	67	Total	C	N	O	S	0	0	0
			563	349	114	99	1			

- Molecule 51 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	L8	58	Total	C	N	O	0	0	0
			459	293	89	77			
51	H5	58	Total	C	N	O	0	0	0
			459	293	89	77			

- Molecule 52 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M8	47	Total	C	N	O	S	0	0	0
			366	234	61	66	5			

- Molecule 53 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	N8	48	Total	C	N	O	S	0	0	0
			369	229	75	60	5			
53	J5	56	Total	C	N	O	S	0	0	0
			434	272	87	70	5			

- Molecule 54 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	P8	47	Total	C	N	O	S	0	0	0
			401	246	99	54	2			
54	L5	45	Total	C	N	O	S	0	0	0
			391	240	97	52	2			

- Molecule 55 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	Q8	64	Total	C	N	O	S	0	0	0
			516	331	102	81	2			
55	M5	64	Total	C	N	O	S	0	0	0
			516	331	102	81	2			

- Molecule 56 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	1L	74	Total	C	N	O	P	0	0	0
			1570	702	271	523	74			

- Molecule 57 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	3L	76	Total	C	N	O	P	0	0	0
			1611	721	281	534	75			

- Molecule 58 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

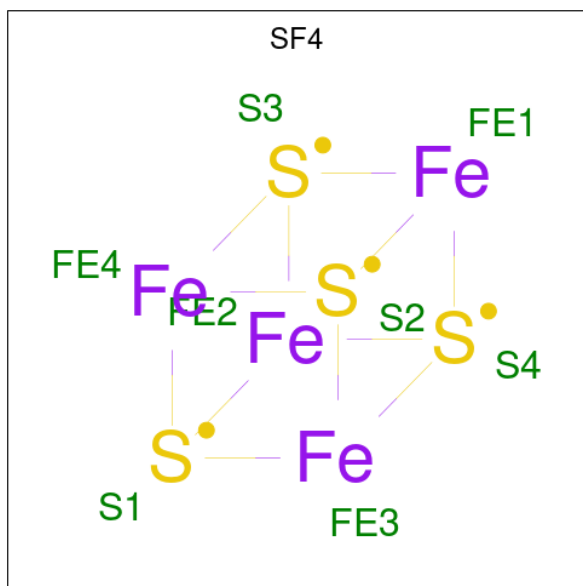
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	13	141	Total Mg 141 141	0	0
58	5E	2	Total Mg 2 2	0	0
58	3I	1	Total Mg 1 1	0	0
58	5I	1	Total Mg 1 1	0	0
58	2K	3	Total Mg 3 3	0	0
58	1H	488	Total Mg 488 488	0	0
58	16	12	Total Mg 12 12	0	0
58	11	1	Total Mg 1 1	0	0
58	21	2	Total Mg 2 2	0	0
58	41	1	Total Mg 1 1	0	0
58	78	1	Total Mg 1 1	0	0
58	88	1	Total Mg 1 1	0	0
58	C8	1	Total Mg 1 1	0	0
58	I8	1	Total Mg 1 1	0	0
58	J8	2	Total Mg 2 2	0	0
58	P8	1	Total Mg 1 1	0	0
58	Q8	1	Total Mg 1 1	0	0
58	1G	78	Total Mg 78 78	0	0
58	32	1	Total Mg 1 1	0	0
58	7A	1	Total Mg 1 1	0	0
58	2L	3	Total Mg 3 3	0	0
58	14	420	Total Mg 420 420	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1J	6	Total	Mg	0	0
			6	6		
58	29	3	Total	Mg	0	0
			3	3		
58	35	1	Total	Mg	0	0
			1	1		
58	45	3	Total	Mg	0	0
			3	3		
58	55	1	Total	Mg	0	0
			1	1		
58	85	2	Total	Mg	0	0
			2	2		
58	C5	1	Total	Mg	0	0
			1	1		
58	E5	1	Total	Mg	0	0
			1	1		
58	L5	1	Total	Mg	0	0
			1	1		

- Molecule 59 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe₄S₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
59	3E	1	Total	Fe	S	0	0
			8	4	4		
59	32	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 60 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	5I	1	Total Zn 1 1	0	0
60	G8	1	Total Zn 1 1	0	0
60	5A	1	Total Zn 1 1	0	0
60	C5	1	Total Zn 1 1	0	0

- Molecule 61 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	13	148	Total O 148 148	0	0
61	3E	2	Total O 2 2	0	0
61	3I	2	Total O 2 2	0	0
61	5I	1	Total O 1 1	0	0
61	6I	1	Total O 1 1	0	0
61	1K	1	Total O 1 1	0	0
61	4K	6	Total O 6 6	0	0
61	1H	670	Total O 670 670	0	0
61	16	18	Total O 18 18	0	0
61	11	9	Total O 9 9	0	0
61	21	5	Total O 5 5	0	0
61	31	6	Total O 6 6	0	0
61	58	2	Total O 2 2	0	0
61	78	3	Total O 3 3	0	0
61	B8	1	Total O 1 1	0	0

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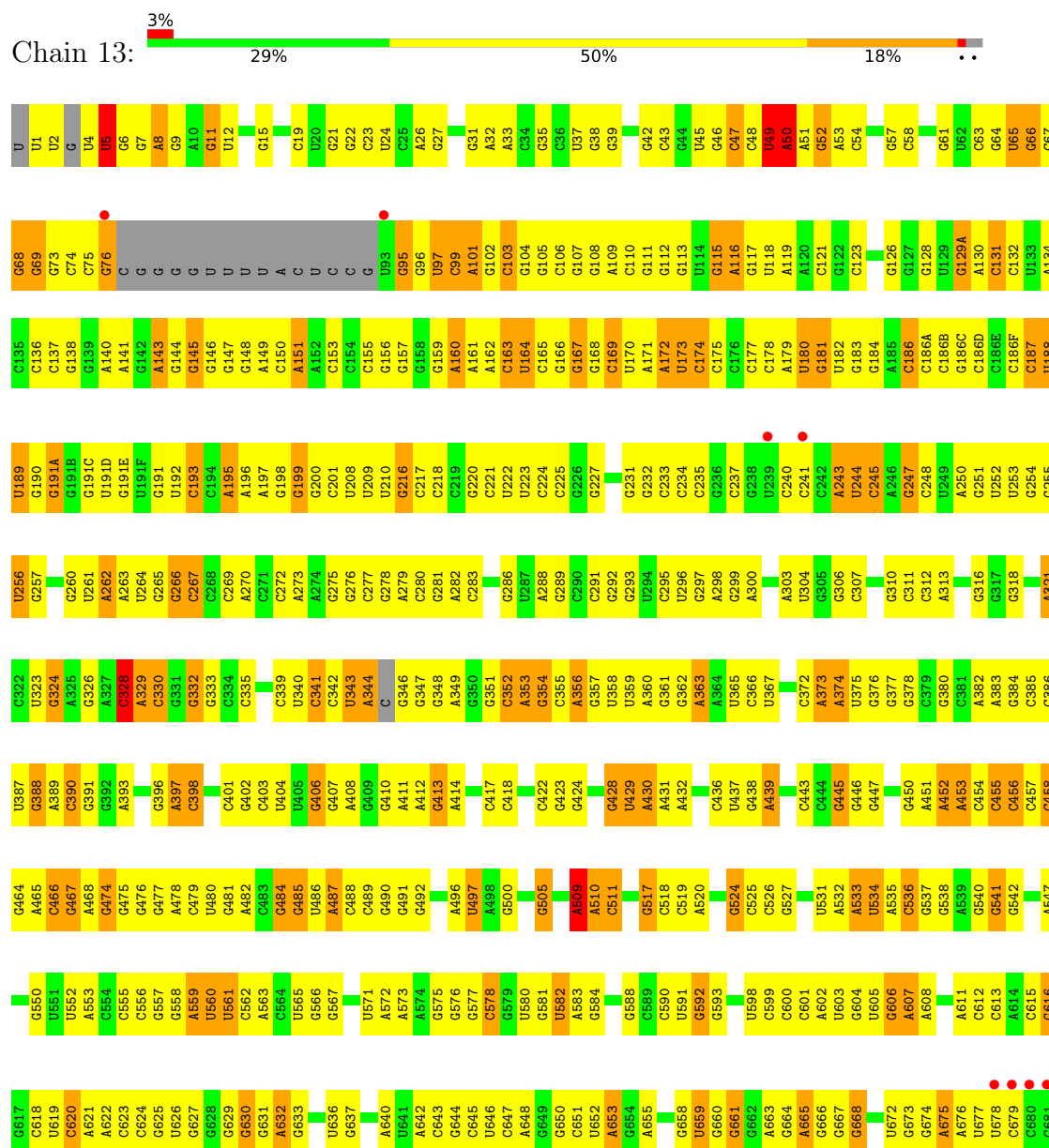
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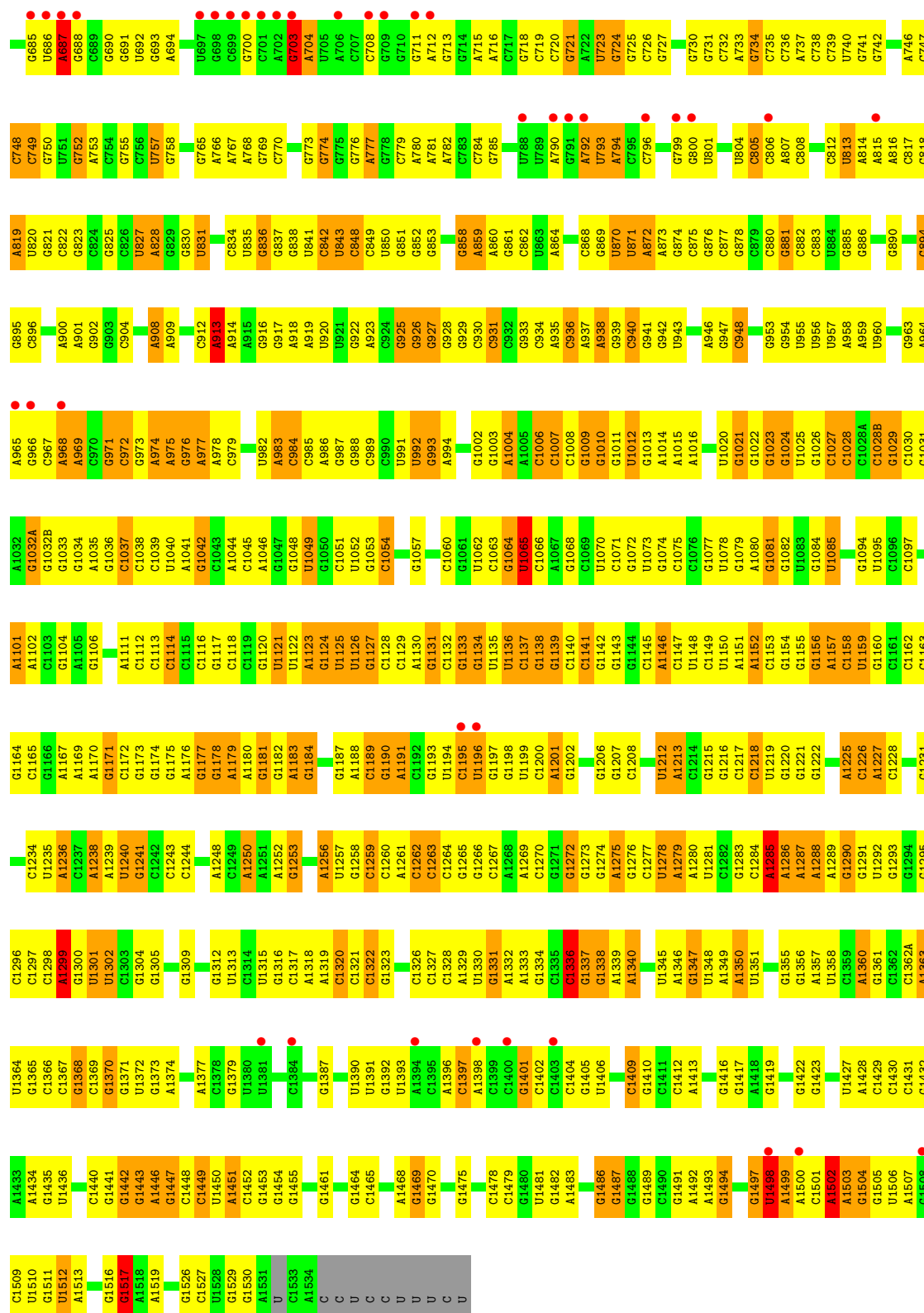
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
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61	E8	1	Total 1	O 1	0	0
61	G8	1	Total 1	O 1	0	0
61	I8	1	Total 1	O 1	0	0
61	Q8	1	Total 1	O 1	0	0
61	1G	44	Total 44	O 44	0	0
61	5A	3	Total 3	O 3	0	0
61	BA	1	Total 1	O 1	0	0
61	14	411	Total 411	O 411	0	0
61	1J	11	Total 11	O 11	0	0
61	19	4	Total 4	O 4	0	0
61	29	3	Total 3	O 3	0	0
61	39	8	Total 8	O 8	0	0
61	35	2	Total 2	O 2	0	0
61	55	1	Total 1	O 1	0	0
61	E5	1	Total 1	O 1	0	0
61	F5	2	Total 2	O 2	0	0
61	L5	1	Total 1	O 1	0	0
61	M5	2	Total 2	O 2	0	0

3 Residue-property plots

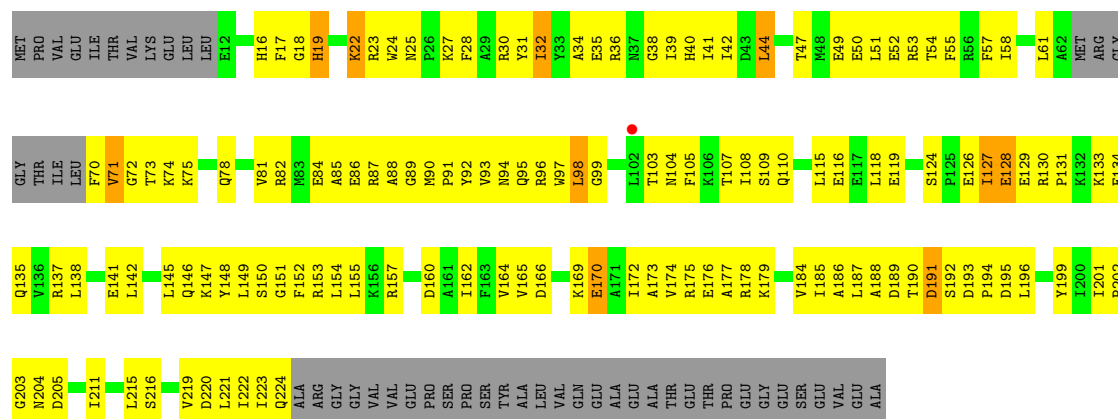
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: 16S ribosomal RNA

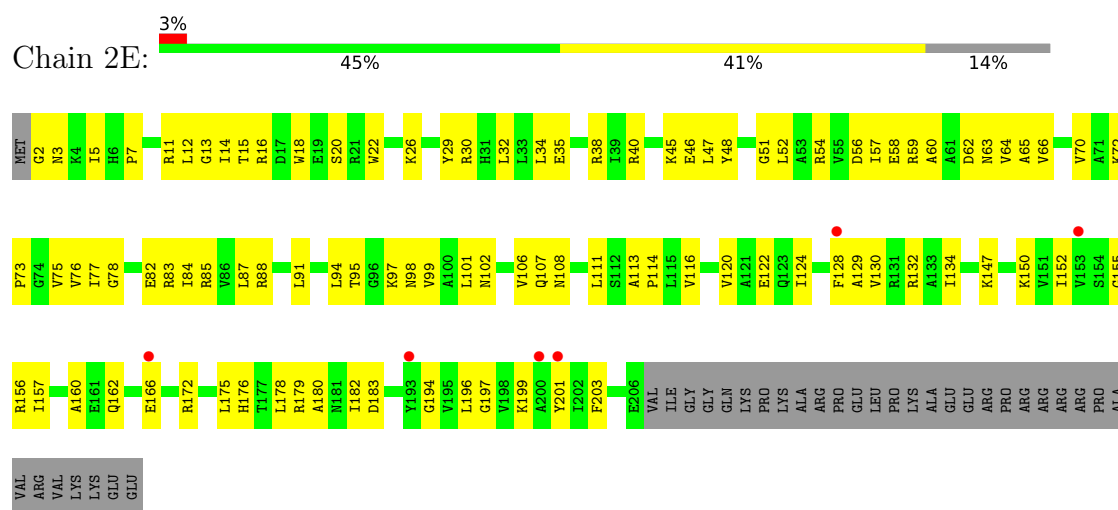




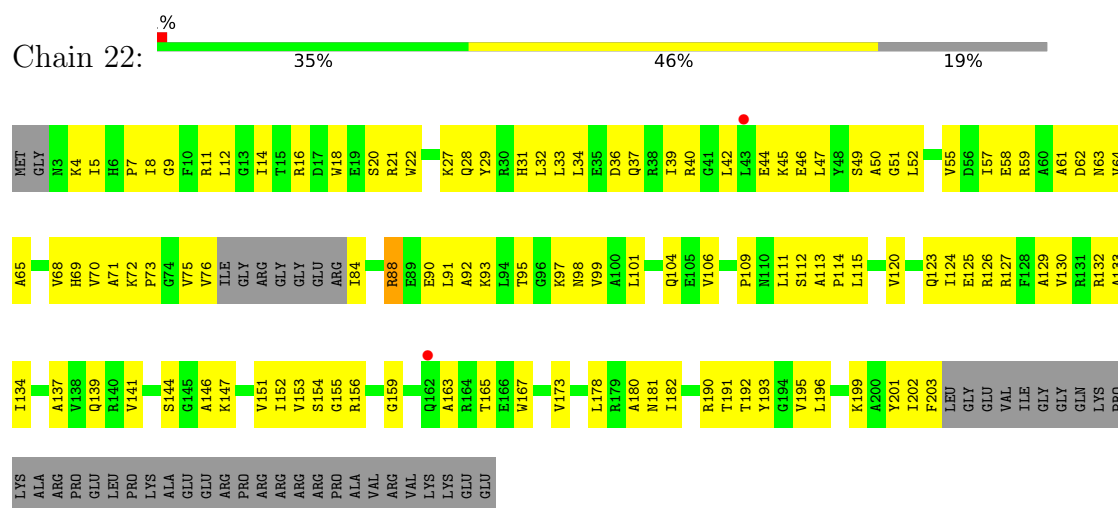




• Molecule 3: 30S ribosomal protein S3

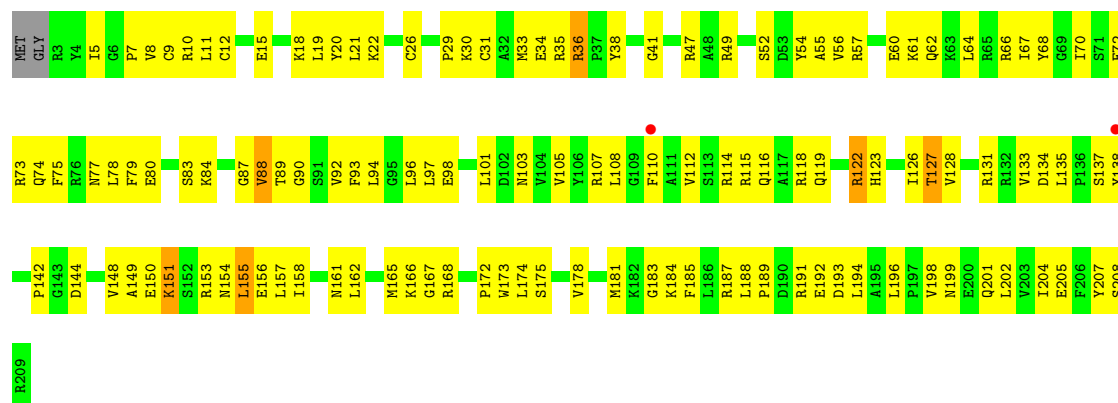


• Molecule 3: 30S ribosomal protein S3

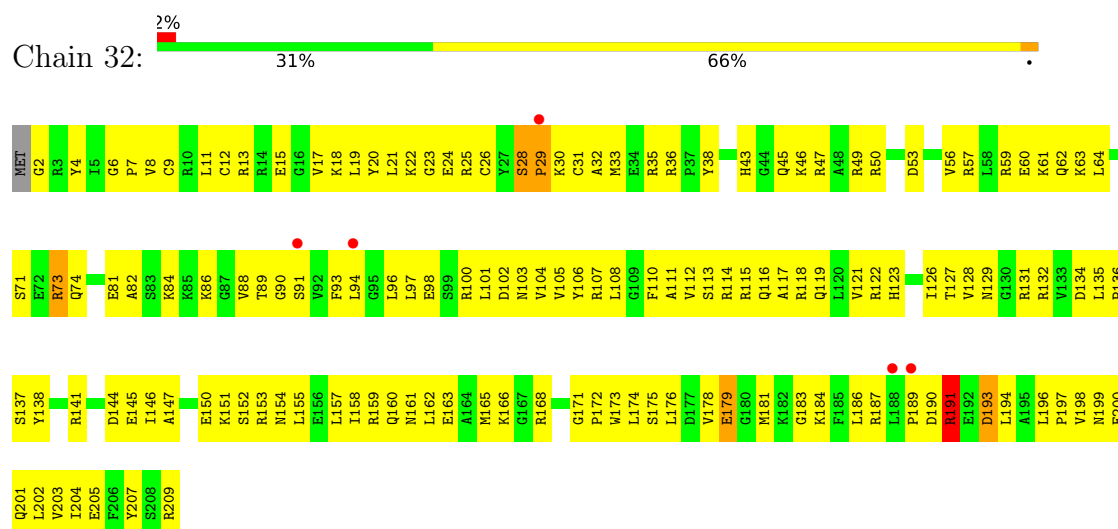


• Molecule 4: 30S ribosomal protein S4

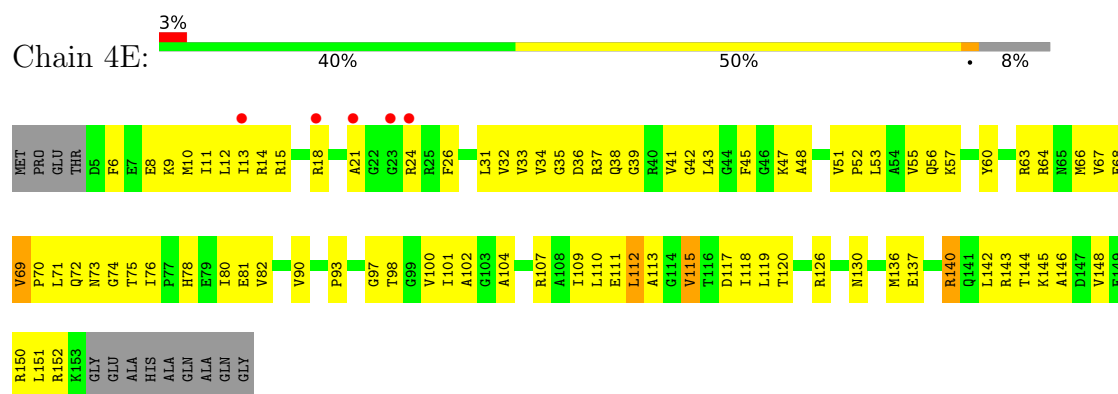




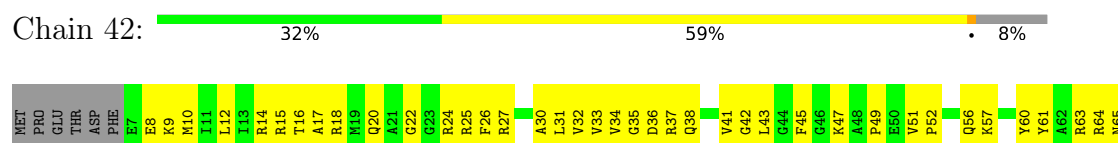
• Molecule 4: 30S ribosomal protein S4

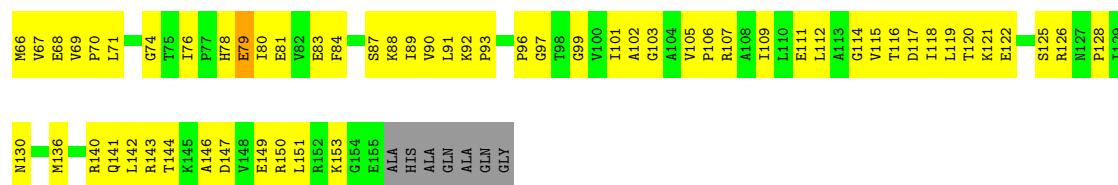


• Molecule 5: 30S ribosomal protein S5



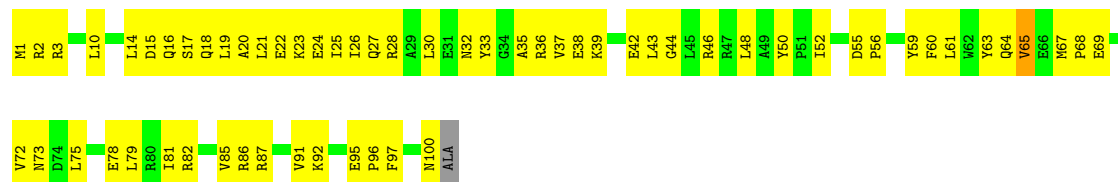
• Molecule 5: 30S ribosomal protein S5





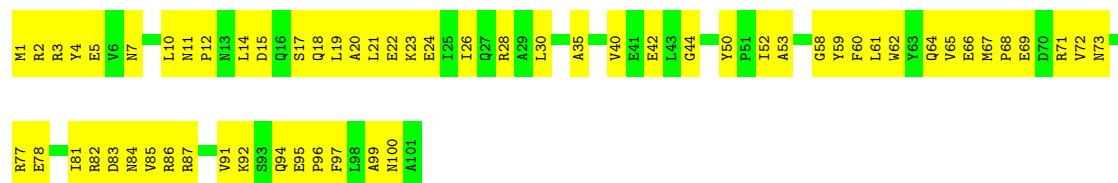
• Molecule 6: 30S ribosomal protein S6

Chain 5E: 39% 59% ..



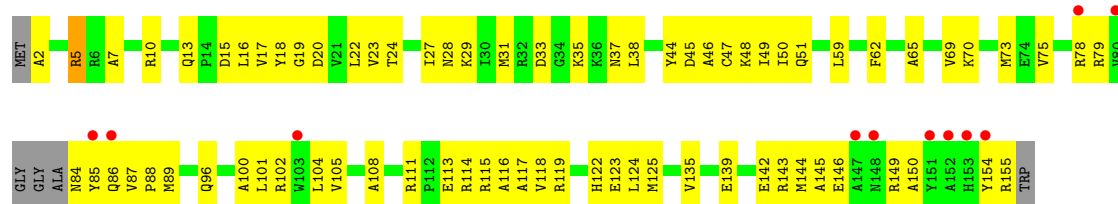
• Molecule 6: 30S ribosomal protein S6

Chain 52: 41% 59%



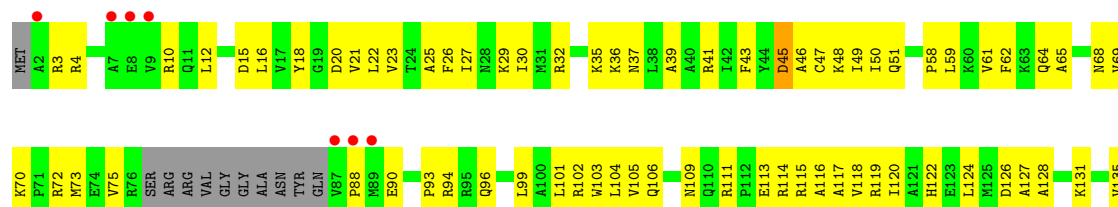
• Molecule 7: 30S ribosomal protein S7

Chain 6E: 7% 49% 47% ..

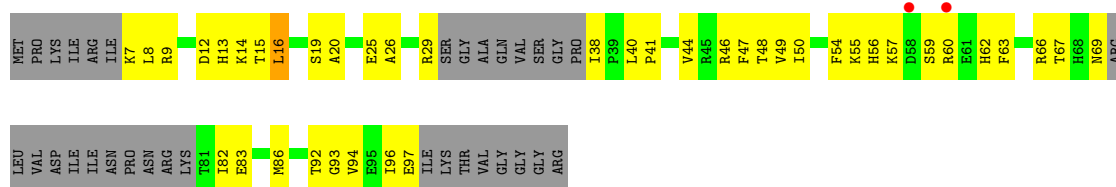


• Molecule 7: 30S ribosomal protein S7

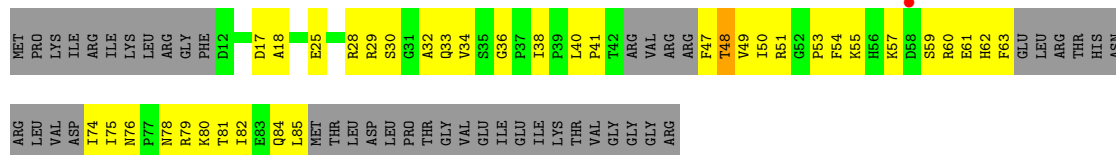
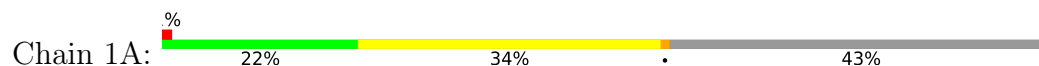
Chain 62: 5% 35% 52% 12%



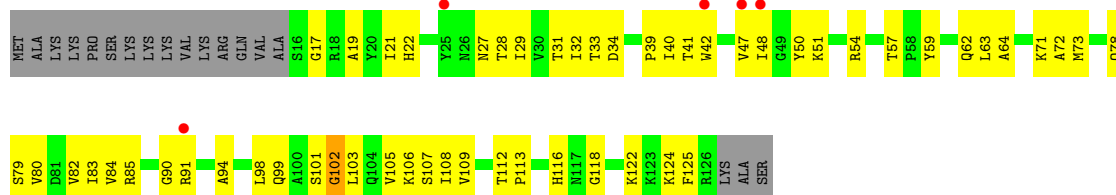
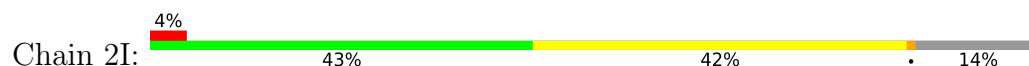




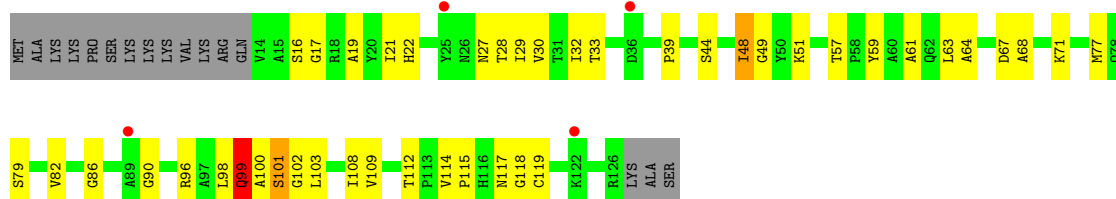
• Molecule 10: 30S ribosomal protein S10



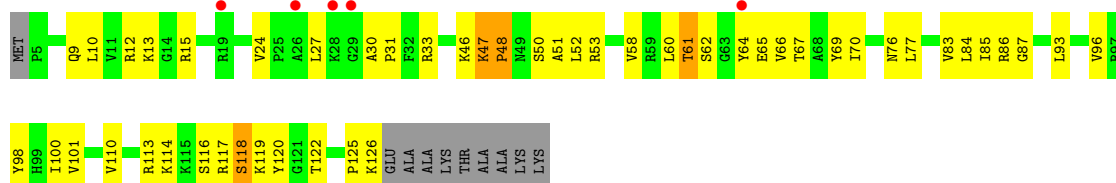
• Molecule 11: 30S ribosomal protein S11



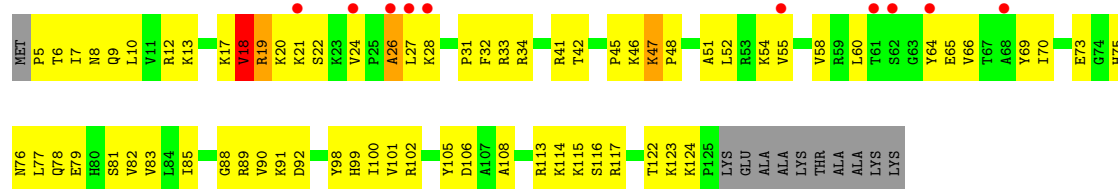
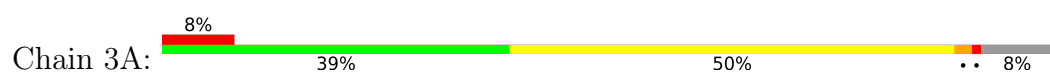
• Molecule 11: 30S ribosomal protein S11



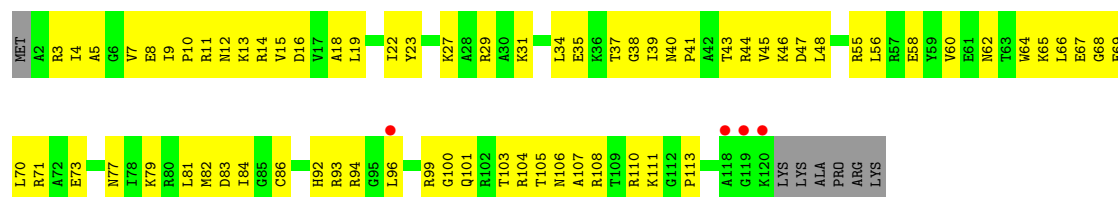
• Molecule 12: 30S ribosomal protein S12



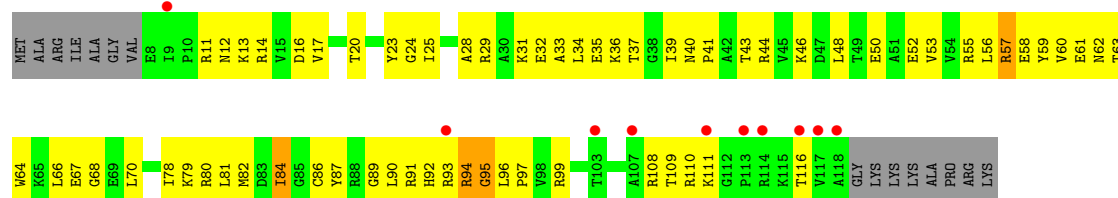
• Molecule 12: 30S ribosomal protein S12



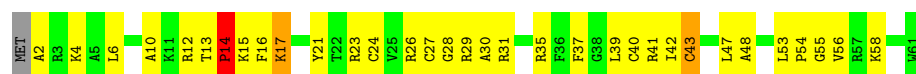
• Molecule 13: 30S ribosomal protein S13



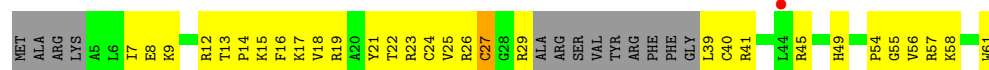
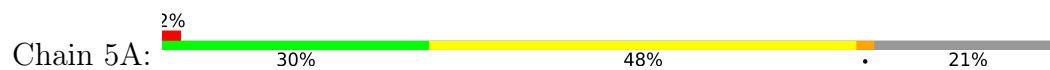
• Molecule 13: 30S ribosomal protein S13



• Molecule 14: 30S ribosomal protein S14 type Z

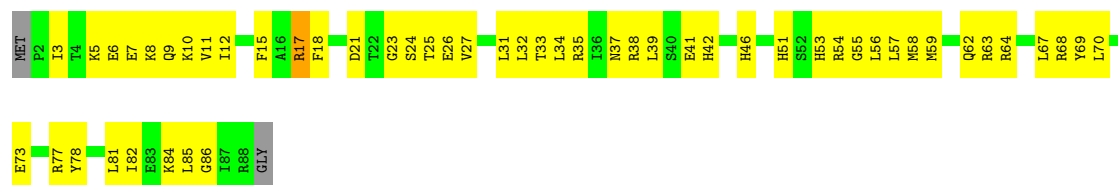


• Molecule 14: 30S ribosomal protein S14 type Z



• Molecule 15: 30S ribosomal protein S15





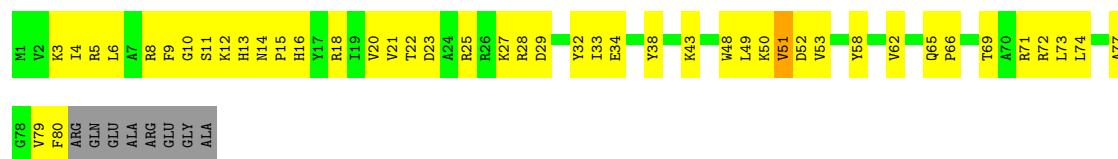
- Molecule 15: 30S ribosomal protein S15

Chain 6A:



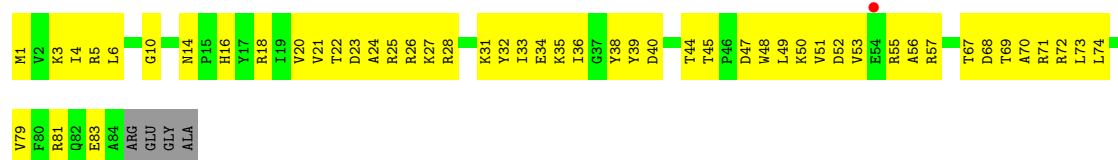
- Molecule 16: 30S ribosomal protein S16

Chain 7I:



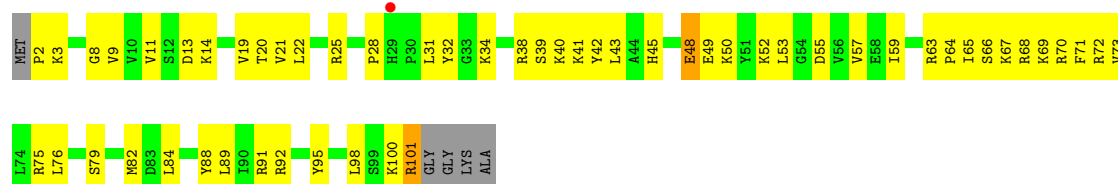
- Molecule 16: 30S ribosomal protein S16

Chain 7A:



- Molecule 17: 30S ribosomal protein S17

Chain 8I:



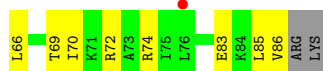
- Molecule 17: 30S ribosomal protein S17

Chain 8A:

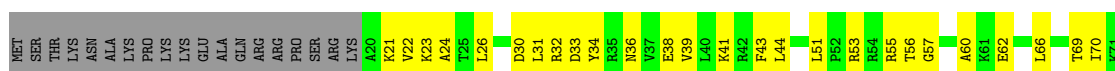




- Molecule 18: 30S ribosomal protein S18



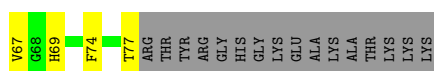
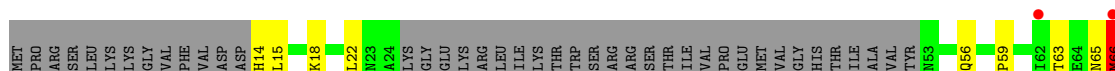
- Molecule 18: 30S ribosomal protein S18



- Molecule 19: 30S ribosomal protein S19

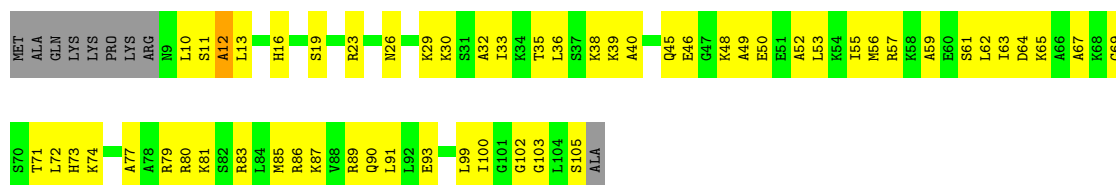


- Molecule 19: 30S ribosomal protein S19

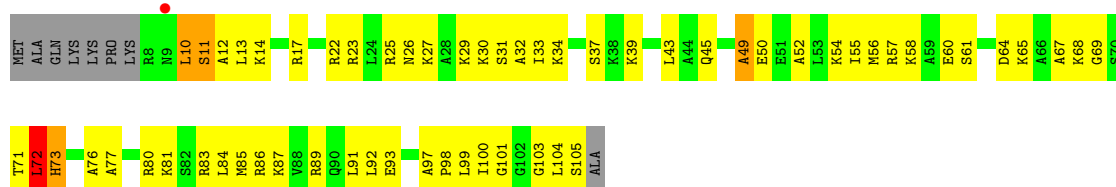


- Molecule 20: 30S ribosomal protein S20





- Molecule 20: 30S ribosomal protein S20



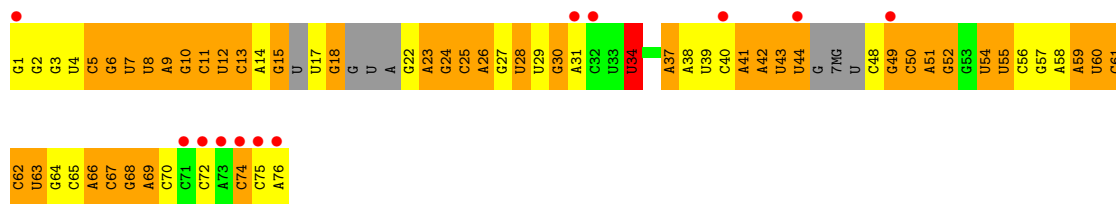
- Molecule 21: 30S ribosomal protein Thx



- Molecule 21: 30S ribosomal protein Thx



- Molecule 22: tRNA^{Lys}

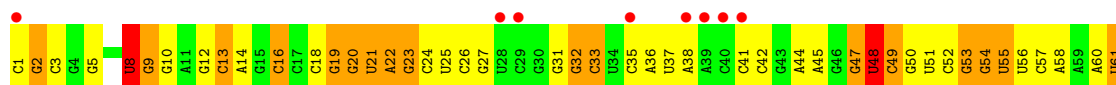


- Molecule 23: tRNA^{fMet}

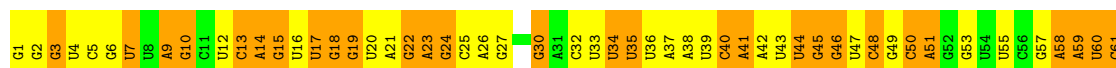




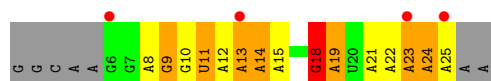
• Molecule 23: tRNA^fMet



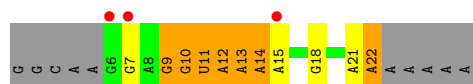
• Molecule 24: tRNA^{Lys}



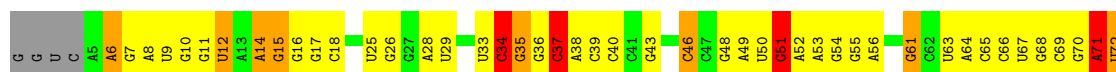
• Molecule 25: mRNA



• Molecule 25: mRNA



• Molecule 26: 23S ribosomal RNA



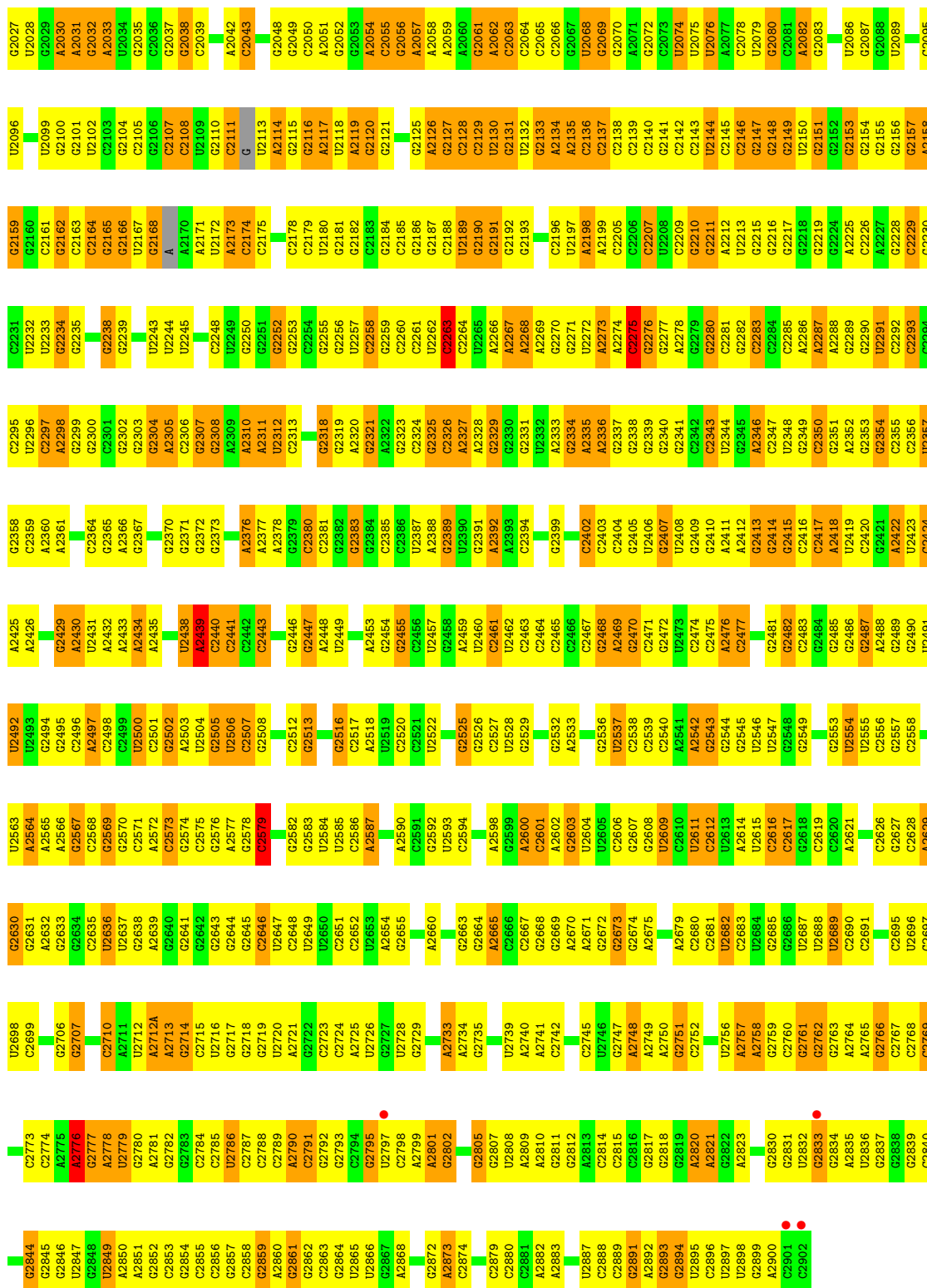




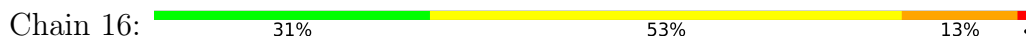


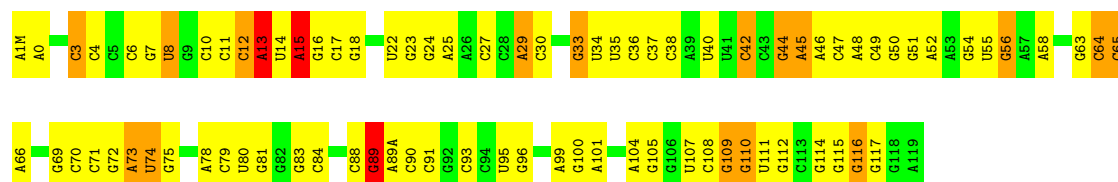
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G987	U922	A861	G732	G732	A654T		A547	G475	C405	A221	G270X	A222	C143
A988	G923	G862	G733	G733	A654U		A548	U475	U406	A222	G270Y	A223	G145
G989	G924	A863	G734	G734			G549			A223	C271A	G224	G146
A990	G925	G864	A735	A735	G656	A616	G550	A479	C409	A225	G271B	A225	
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G992	G928	A866		G737	G658	G618	U554	G481	G411	G227	U271C	G227	C150
G993	G929	C867	G805	G738	G659	G618A	U555	A482	G412	A228	G271	G228	C151
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C994	G931	G869	U807	G740	G661	G620	U557	A484	C413		G273		
C995	G932	A870	G808	G741	G662	A621	G558	C485	C414				C153
A996	A933	U871	G809	G742	G663	G622	G559	C486			C273C	A233	G154
G997	A933	A872	U810	G743	G664	G623	C560		U421		C273D	C234	C155
U997	U937	G873	U811	G744	G665	G624	U561	G493	A422		U273E	U235	U
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A1001	G940	C976	C814	U747	G669	A627	C564	A502	G425	G240	G275	G240	U162
G1002	A941	U877	C815	G748	A670	G628	C565	A503	C426	A241	A276	A241	G171
G1003	G942	A878	C816	G749	C671	G629	U566	U504	U427	A242	C277	A242	G172
C1004	U943	C879	C817	A750	G672	G630	A567	U505	A428	G243		G243	C172
C1005	G944	G818	U818	A751	C673	A631	U568	A506	A429	A244		G244	G173
C1006	A945	G880	A819	A752	C674	A632	U569	G506					C174
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G1022	C961	G898	A835		C892	G649	U888	C523	C452	C283		G264	A191
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G1024	U963		C837	G775		G651	A590	C527	C376	U193		G266	U193
G1025	A901	A901	C838	G776	G698		C591	A526	U305	G194		G267	A195
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A1027	C967	C903	C840	G778	G700	C654A	G593	A528	U383	A197		G269	C198
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G1964	C1752	G1667	G1667	C1592	C1532	C1463	G1459	C1328	G1250	A1177	C1110	A1050
G1965	G1753	A1819	A1669	G1593	C1533	G1465	C1403	U1329	G1251	G1178	A1111	G1051
A1966	C1754	G1669	G1669	G1594	G1534	G1466	C1404	C1330	G1252	C1179	G1112	C1052
A1967	G1755	C1670	C1671	G1595	U1535	C1467	G1405	A1331	A1263	C1180	U1113	C1053
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A2008	G1792	C1571	C1571	C1571	A1572	G1516	G1447	A1379	G1302	G1230	U1160	G1093
A2009	G1793	C1572	C1572	C1572	A1573	U1517	G1448	G1380	G1303	G1231	G1161	A
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A2013	C1713	C1576	C1576	C1576	A1577	G1521	G1451	G1386	U1316	G1238	U1165	G1100
A2014	C1714	C1577	C1577	C1577	A1578	G1522	G1452	C1387	G1317	G1239	C1166	C1101
A2015	C1715	C1578	C1578	C1578	A1579	U1523	G1453	G1388	U1240	G1240	G1167	U1101
A2016	C1716	C1579	C1579	C1579	A1580	G1524	G1454	G1389	A1241	A1241	G1168	C1102
A2017	C1717	C1580	C1580	C1580	A1581	G1525	G1455	U1390	A1242	A1242	G1169	A1103
A2018	C1718	C1581	C1581	C1581	A1582	G1526	G1456	U1391	G1243	G1243	G1170	C1104
A2019	C1719	C1582	C1582	C1582	A1583	G1527	G1457	A1392	A1322	A1322	G1171	U1105
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A2079	C1779	C1642	C1642	C1642	A1643							
A2080	C1780	C1643	C1643	C1643	A1644							
A2081	C1781	C1644	C1644	C1644	A1645							
A2082	C1782	C1645	C1645	C16								



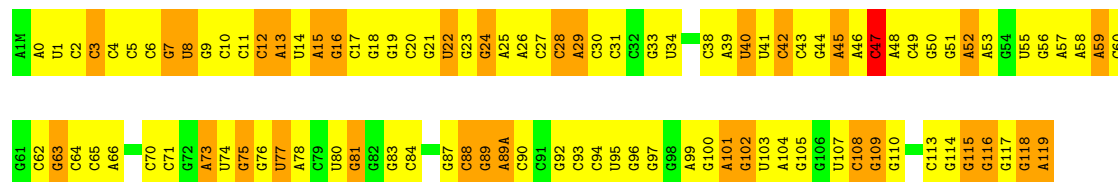
- Molecule 27: 5S ribosomal RNA





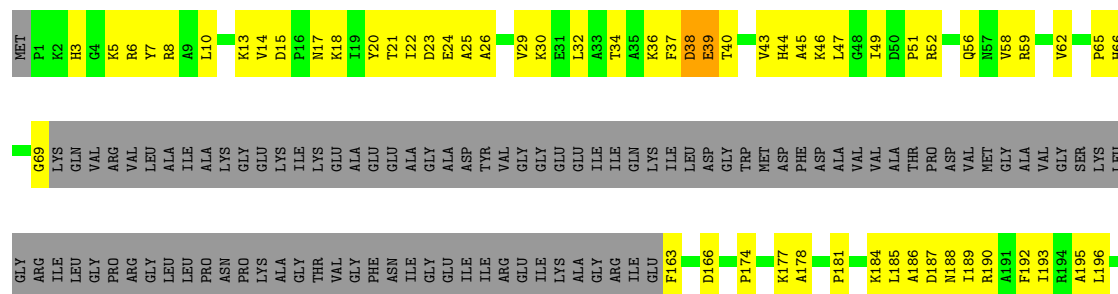
• Molecule 27: 5S ribosomal RNA

Chain 1J: 16% 57% 26%



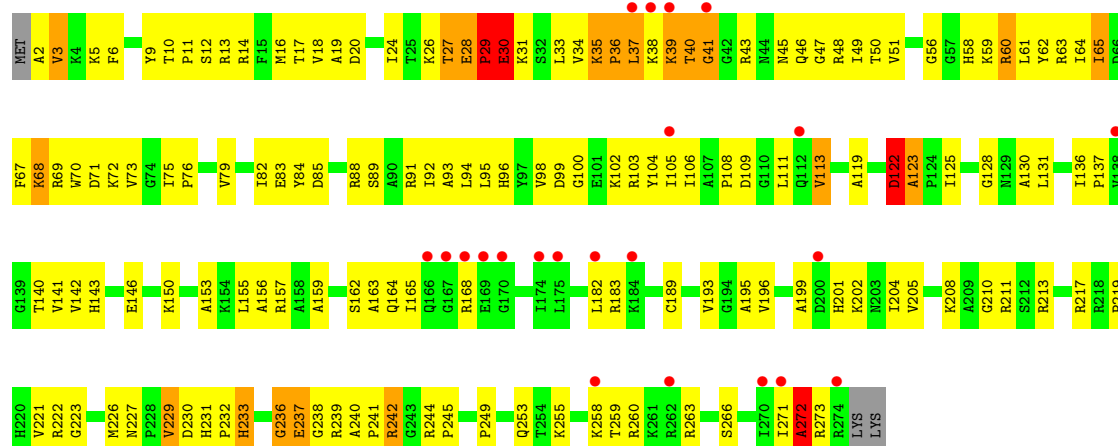
• Molecule 28: 50S ribosomal protein L1

Chain 71: 25% 33% 41%

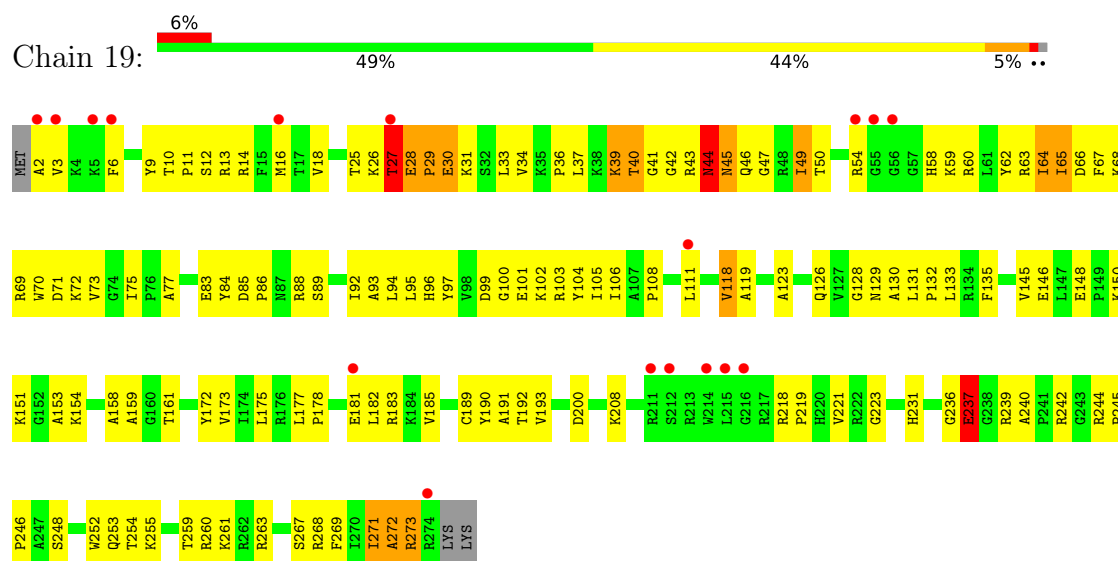


• Molecule 29: 50S ribosomal protein L2

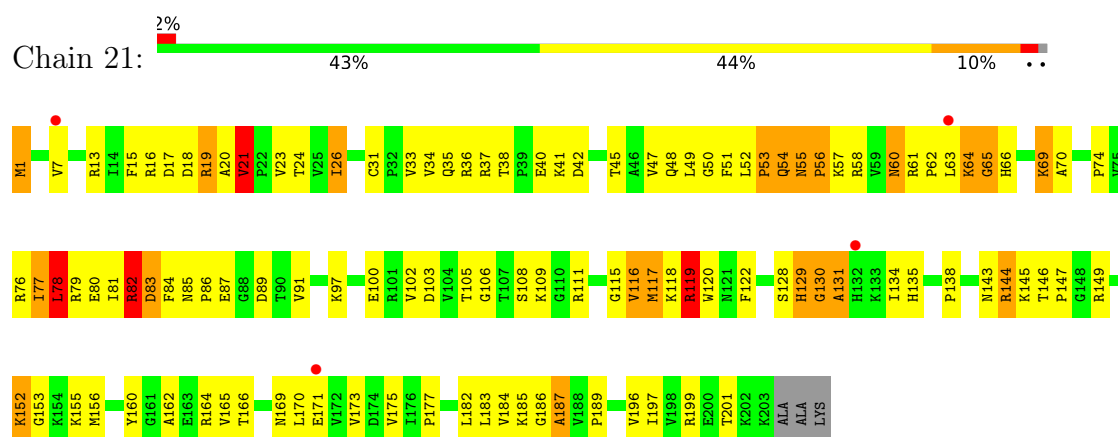
Chain 11: 8% 43% 47% 7%



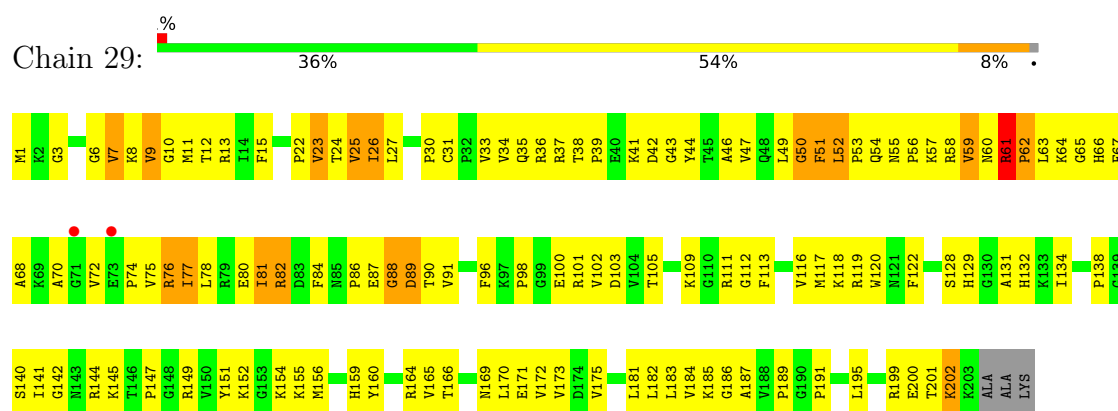
• Molecule 29: 50S ribosomal protein L2



• Molecule 30: 50S ribosomal protein L3



• Molecule 30: 50S ribosomal protein L3

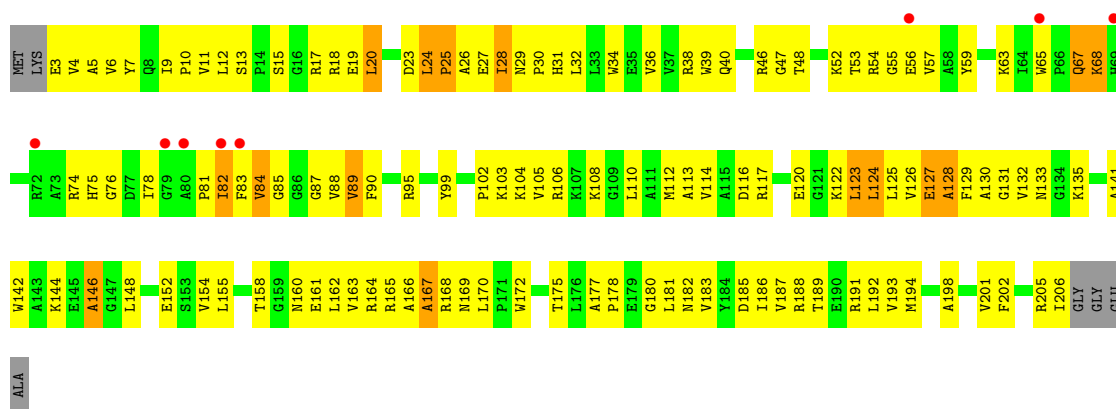


• Molecule 31: 50S ribosomal protein L4

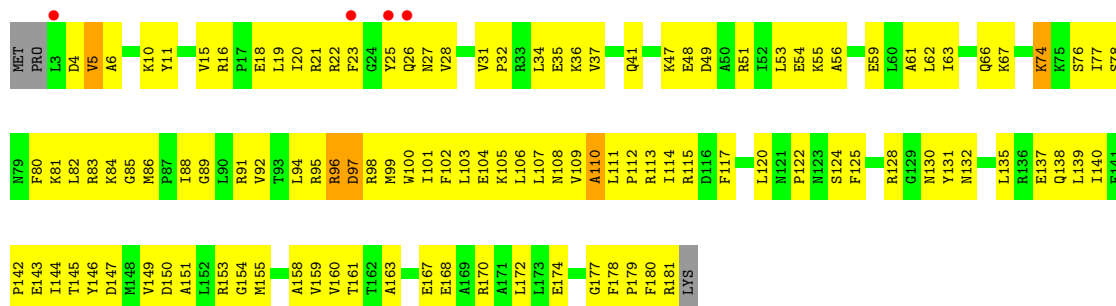




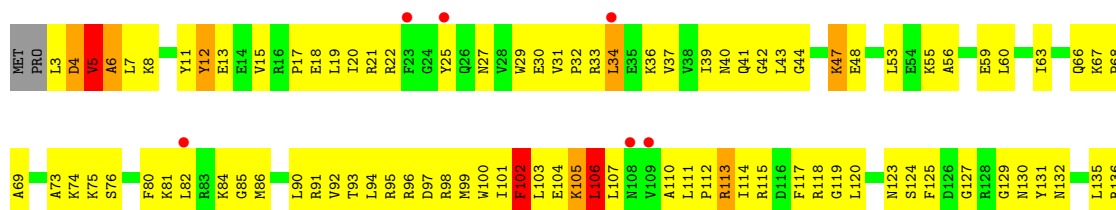
• Molecule 31: 50S ribosomal protein L4

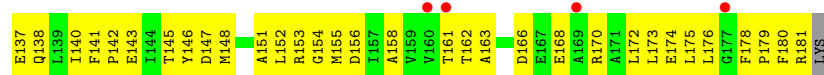


• Molecule 32: 50S ribosomal protein L5

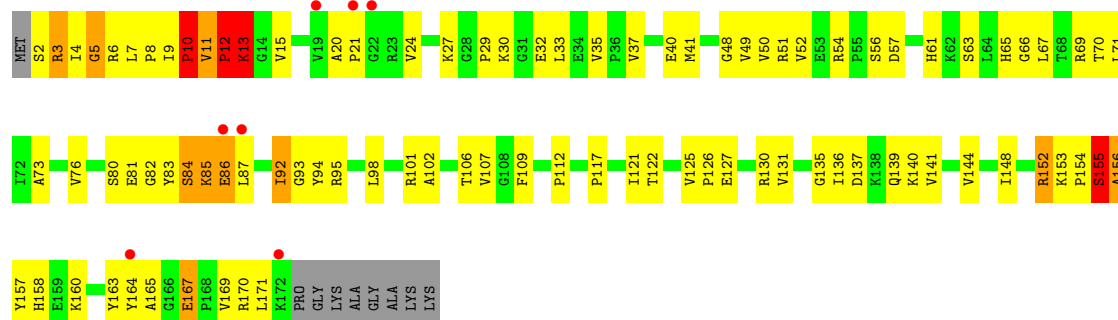
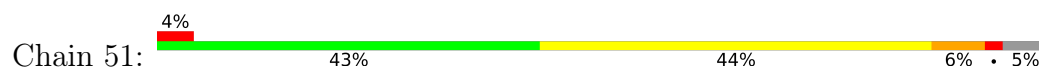


• Molecule 32: 50S ribosomal protein L5

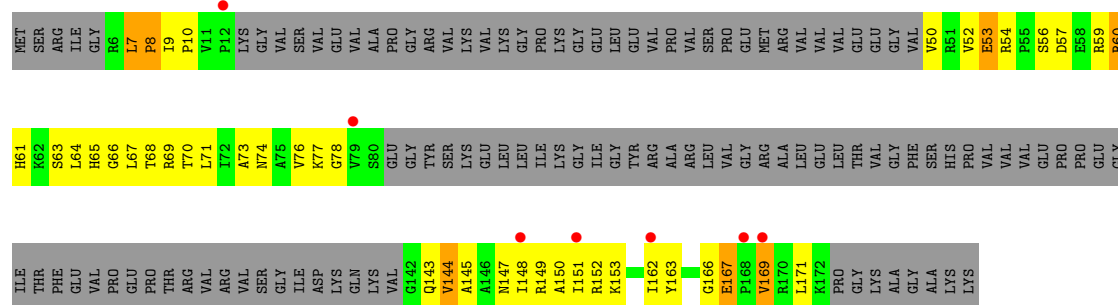




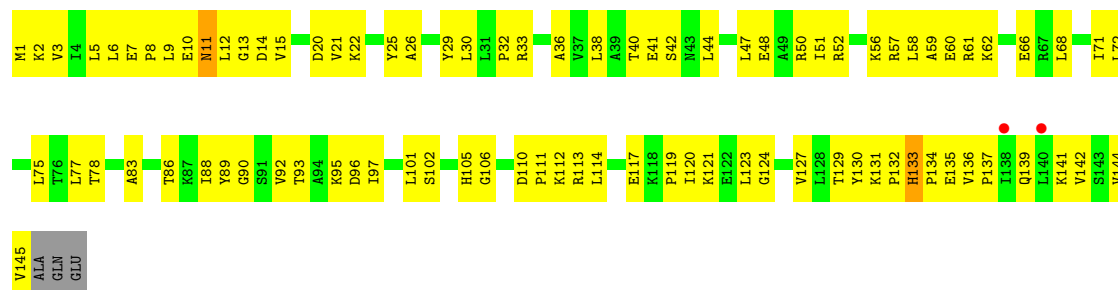
• Molecule 33: 50S ribosomal protein L6



• Molecule 33: 50S ribosomal protein L6



• Molecule 34: 50S ribosomal protein L9

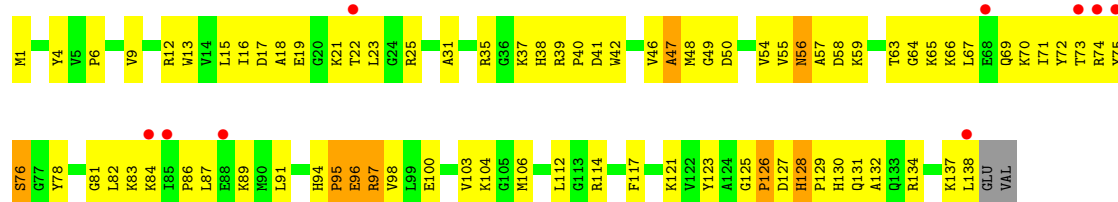


• Molecule 34: 50S ribosomal protein L9

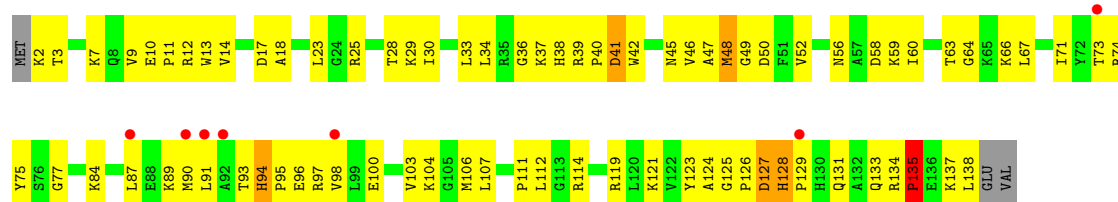
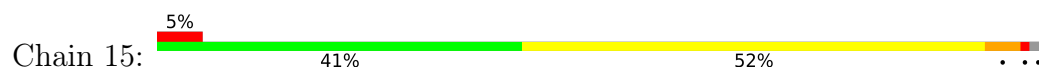




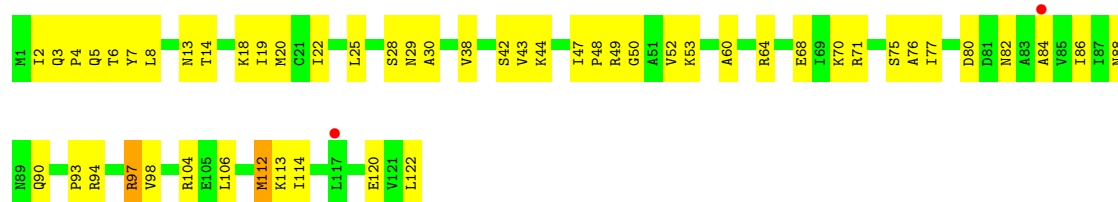
- Molecule 35: 50S ribosomal protein L13



- Molecule 35: 50S ribosomal protein L13

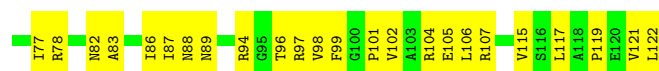


- Molecule 36: 50S ribosomal protein L14

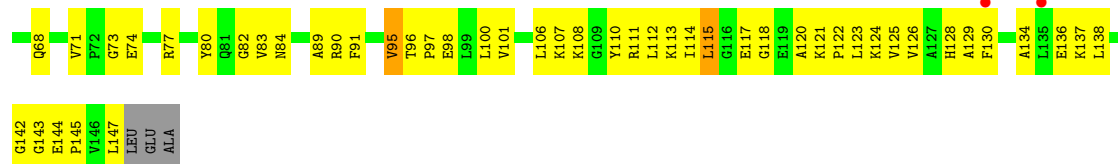


- Molecule 36: 50S ribosomal protein L14

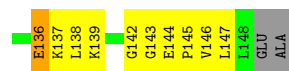
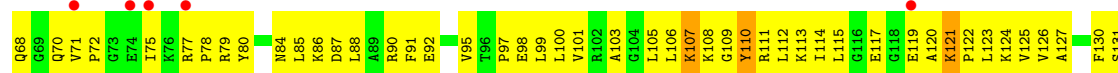
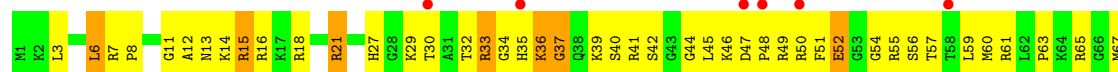




- Molecule 37: 50S ribosomal protein L15



- Molecule 37: 50S ribosomal protein L15

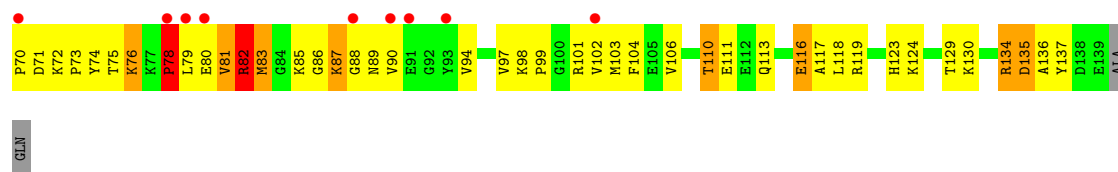


- Molecule 38: 50S ribosomal protein L16



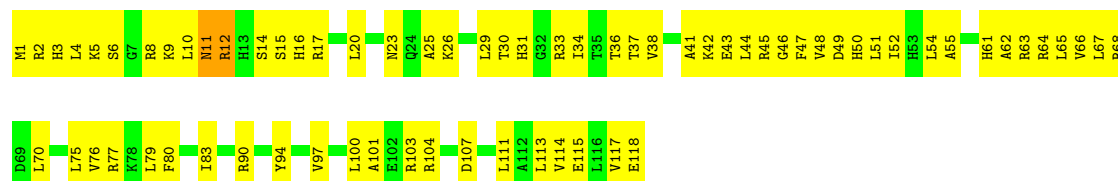
- Molecule 38: 50S ribosomal protein L16





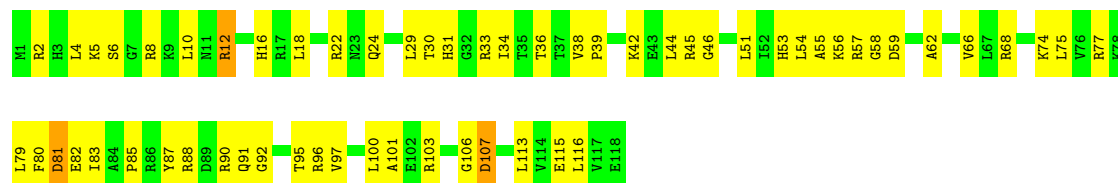
- Molecule 39: 50S ribosomal protein L17

Chain 98: 41% 58%



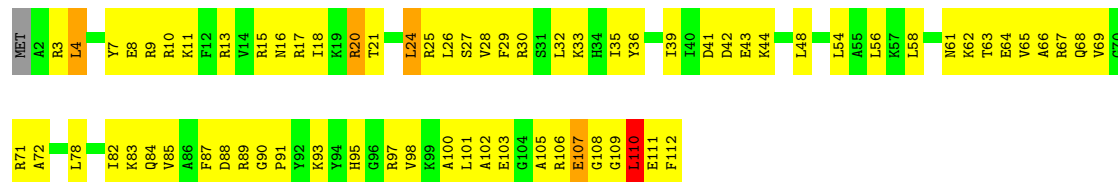
- Molecule 39: 50S ribosomal protein L17

Chain 55: 50% 47%



- Molecule 40: 50S ribosomal protein L18

Chain A8: 36% 59%



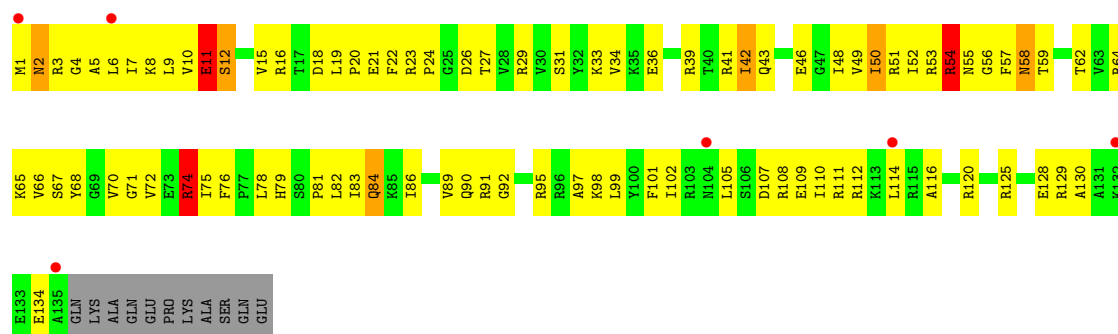
- Molecule 40: 50S ribosomal protein L18

Chain 65: 36% 60%

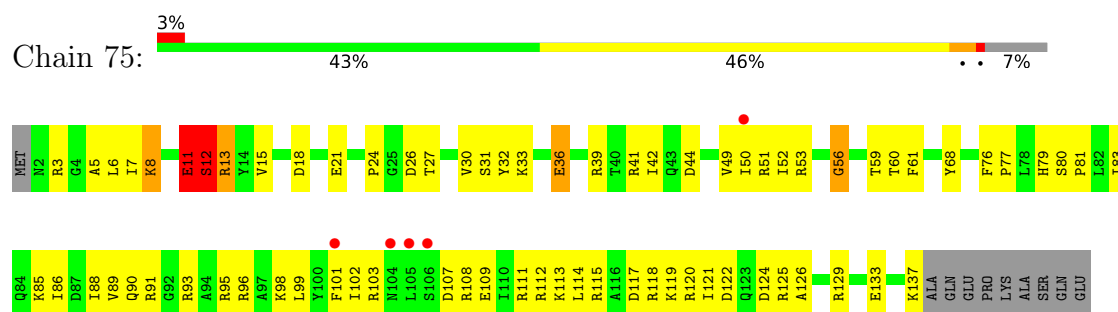


- Molecule 41: 50S ribosomal protein L19

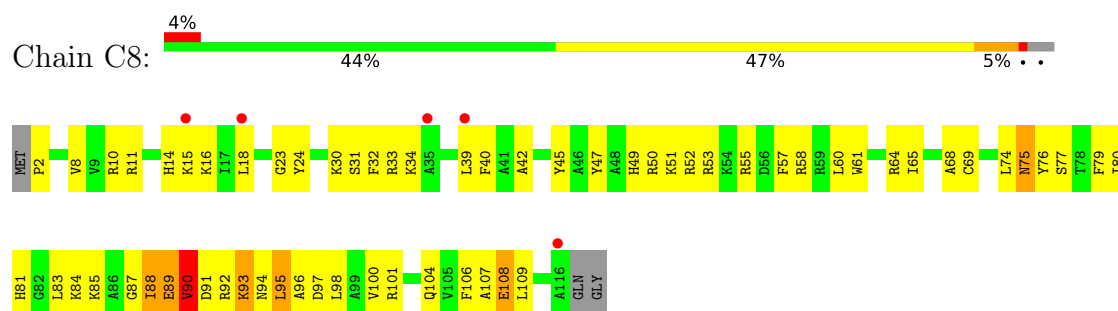
Chain B8: 4% 32% 55% 8%



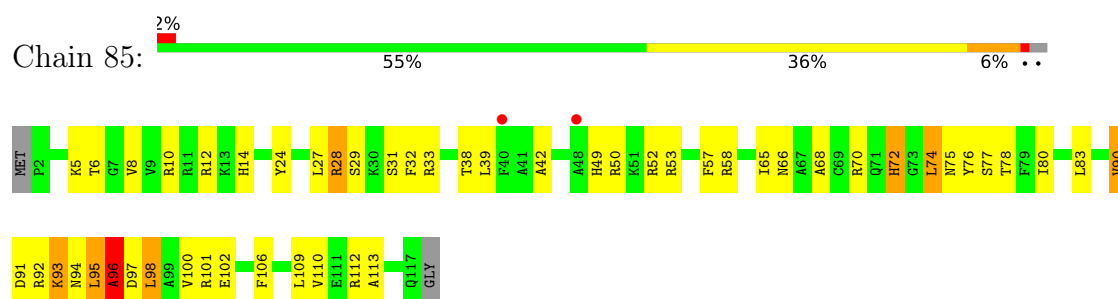
- Molecule 41: 50S ribosomal protein L19



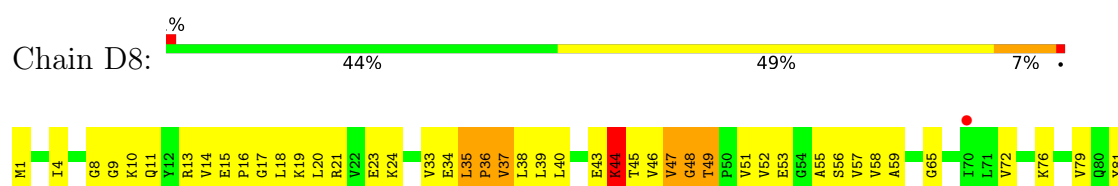
- Molecule 42: 50S ribosomal protein L20

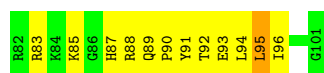


- Molecule 42: 50S ribosomal protein L20

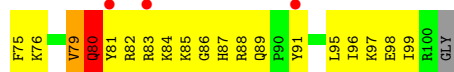


- Molecule 43: 50S ribosomal protein L21

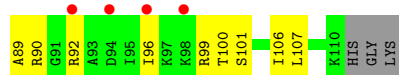
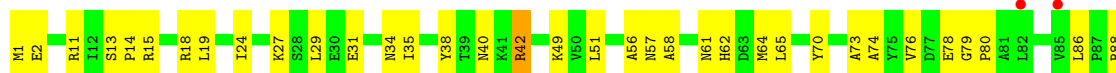




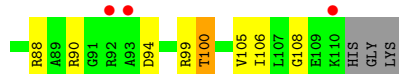
- Molecule 43: 50S ribosomal protein L21



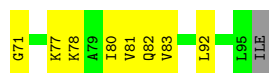
- Molecule 44: 50S ribosomal protein L22



- Molecule 44: 50S ribosomal protein L22

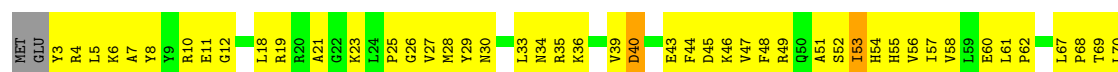


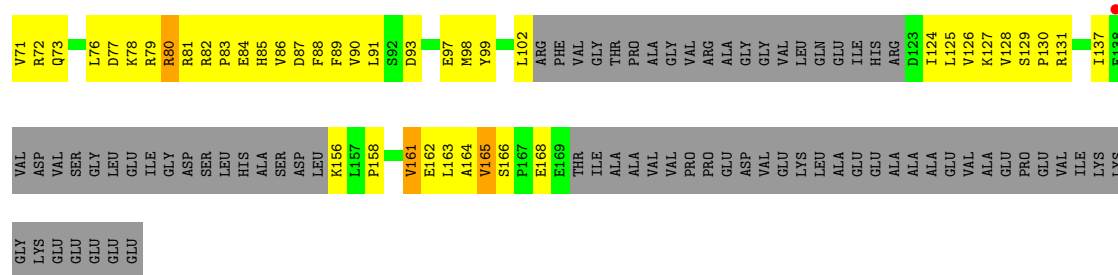
- Molecule 45: 50S ribosomal protein L23



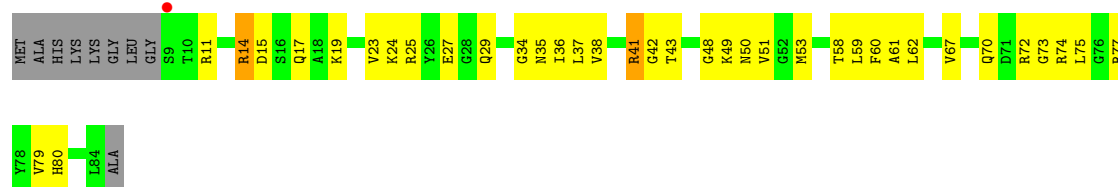
- Molecule 45: 50S ribosomal protein L23







- Molecule 48: 50S ribosomal protein L27



- Molecule 48: 50S ribosomal protein L27

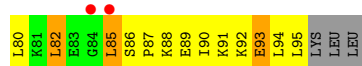


- Molecule 49: 50S ribosomal protein L28

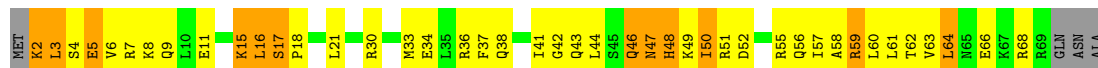


- Molecule 49: 50S ribosomal protein L28

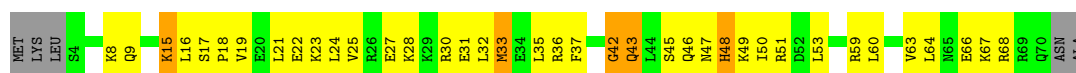




- Molecule 50: 50S ribosomal protein L29



- Molecule 50: 50S ribosomal protein L29



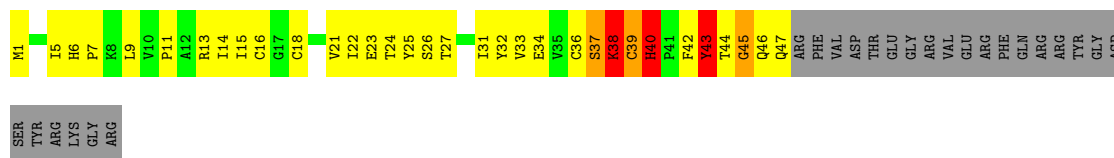
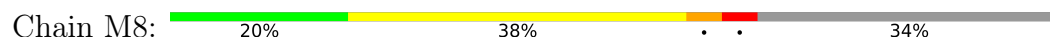
- Molecule 51: 50S ribosomal protein L30



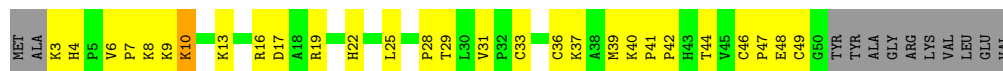
- Molecule 51: 50S ribosomal protein L30



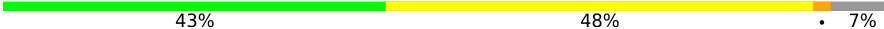
- Molecule 52: 50S ribosomal protein L31



- Molecule 53: 50S ribosomal protein L32



- Molecule 53: 50S ribosomal protein L32

Chain J5:  43% 48% 7%



- Molecule 54: 50S ribosomal protein L34

Chain P8:  2% 53% 37% 6%



- Molecule 54: 50S ribosomal protein L34

Chain L5:  4% 53% 39% 8%



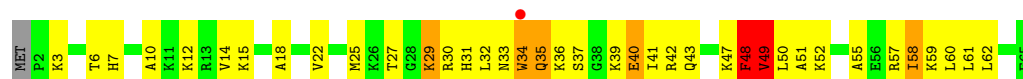
- Molecule 55: 50S ribosomal protein L35

Chain Q8:  2% 35% 51% 11%



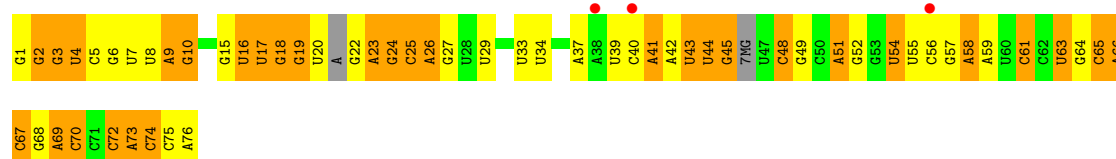
- Molecule 55: 50S ribosomal protein L35

Chain M5:  2% 40% 48% 8%



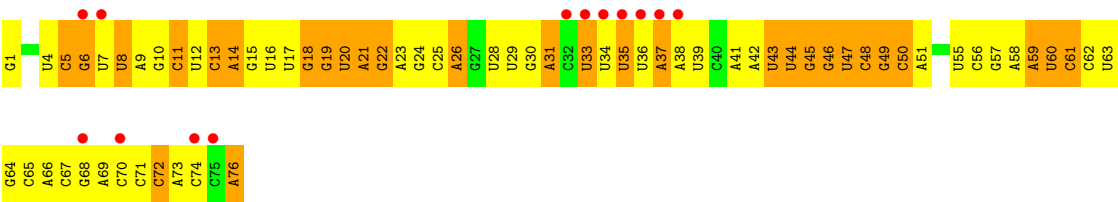
- Molecule 56: tRNA^{Lys}

Chain 1L:  4% 22% 34% 41%



- Molecule 57: tRNA^{Lys}

Chain 3L:  17% 12% 50% 38%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	208.40Å 447.10Å 616.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	152.44 – 3.15 152.44 – 3.15	Depositor EDS
% Data completeness (in resolution range)	100.0 (152.44-3.15) 92.0 (152.44-3.15)	Depositor EDS
R_{merge}	0.23	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.84 (at 3.13Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.198 , 0.254 0.196 , 0.256	Depositor DCC
R_{free} test set	2000 reflections (0.20%)	wwPDB-VP
Wilson B-factor (Å ²)	107.7	Xtriage
Anisotropy	0.223	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 55.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	292607	wwPDB-VP
Average B, all atoms (Å ²)	131.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.47% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, U8U, OMC, G7M, MG, 4SU, T6A, PSU, SF4, 5MU

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	13	0.73	0/35927	0.98	35/56065 (0.1%)
1	1G	0.62	0/35987	0.86	6/56159 (0.0%)
2	12	0.50	0/1726	0.84	2/2324 (0.1%)
2	1E	0.59	0/1908	0.84	0/2573
3	22	0.49	1/1552 (0.1%)	0.76	0/2093
3	2E	0.72	0/1629	0.91	0/2195
4	32	0.69	1/1732 (0.1%)	0.95	1/2318 (0.0%)
4	3E	0.80	1/1726 (0.1%)	0.94	1/2310 (0.0%)
5	42	0.64	1/1151 (0.1%)	0.82	0/1549
5	4E	0.81	1/1158 (0.1%)	0.99	0/1559
6	52	0.68	0/855	0.89	0/1154
6	5E	0.76	0/850	0.98	1/1147 (0.1%)
7	62	0.63	0/1122	0.86	1/1500 (0.1%)
7	6E	0.60	0/1245	0.75	0/1666
8	72	0.53	0/1127	0.80	2/1517 (0.1%)
8	7E	0.93	4/1135 (0.4%)	0.99	2/1527 (0.1%)
9	82	0.62	1/835 (0.1%)	0.85	0/1120
9	8E	0.60	0/1019	0.86	0/1367
10	1A	0.60	0/482	0.78	0/647
10	1I	0.71	0/602	0.87	0/806
11	2A	0.69	2/850 (0.2%)	0.84	0/1150
11	2I	0.72	0/838	0.98	0/1133
12	3A	0.69	0/963	1.02	2/1290 (0.2%)
12	3I	0.98	0/972	1.29	7/1301 (0.5%)
13	4A	0.63	0/903	0.95	1/1211 (0.1%)
13	4I	0.71	0/952	0.94	0/1277
14	5A	0.58	0/393	0.94	0/521
14	5I	0.79	0/500	1.06	1/664 (0.2%)
15	6A	0.74	2/740 (0.3%)	0.88	0/987
15	6I	0.80	1/740 (0.1%)	0.91	0/987
16	7A	0.74	0/721	0.93	0/970
16	7I	0.72	0/687	0.95	0/925

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	8A	0.60	0/836	0.81	0/1117
17	8I	0.82	3/847 (0.4%)	0.99	0/1131
18	9A	0.70	0/549	0.89	0/732
18	9I	0.69	0/549	0.92	0/732
19	AA	0.67	0/288	1.03	1/388 (0.3%)
19	AI	0.78	1/668 (0.1%)	1.05	0/899
20	BA	0.71	1/759 (0.1%)	0.96	2/1000 (0.2%)
20	BI	0.61	0/748	0.83	0/986
21	1B	0.56	0/208	0.87	0/272
21	1F	0.57	0/203	0.78	0/266
22	1K	0.63	0/1516	0.79	0/2350
23	2K	0.87	2/1721 (0.1%)	1.08	0/2682
23	2L	0.65	0/1721	0.89	1/2682 (0.0%)
24	3K	0.63	0/1799	0.81	0/2801
25	4K	0.88	0/494	1.01	1/767 (0.1%)
25	4L	0.73	0/420	0.87	0/654
26	14	0.83	4/69023 (0.0%)	1.10	146/107740 (0.1%)
26	1H	0.97	10/68273 (0.0%)	1.23	270/106575 (0.3%)
27	16	0.82	0/2928	1.18	7/4568 (0.2%)
27	1J	0.69	0/2928	1.02	2/4568 (0.0%)
28	7I	0.74	0/1073	0.89	0/1447
29	11	1.14	4/2170 (0.2%)	1.50	28/2926 (1.0%)
29	19	1.07	1/2170 (0.0%)	1.42	24/2926 (0.8%)
30	21	1.06	7/1591 (0.4%)	1.38	18/2146 (0.8%)
30	29	0.95	0/1591	1.26	5/2146 (0.2%)
31	31	1.04	2/1620 (0.1%)	1.25	6/2194 (0.3%)
31	39	0.87	2/1637 (0.1%)	1.23	3/2218 (0.1%)
32	41	0.80	0/1481	1.06	0/1994
32	49	0.64	1/1481 (0.1%)	1.03	9/1994 (0.5%)
33	51	0.91	0/1337	1.30	9/1809 (0.5%)
33	59	0.70	1/548 (0.2%)	0.99	0/738
34	61	0.70	0/1146	0.97	0/1551
34	69	0.67	0/1146	0.98	3/1551 (0.2%)
35	15	1.04	2/1123 (0.2%)	1.01	3/1515 (0.2%)
35	58	0.91	0/1131	1.15	7/1525 (0.5%)
36	25	0.88	0/942	1.11	2/1269 (0.2%)
36	68	0.95	0/942	1.21	2/1269 (0.2%)
37	35	1.11	3/1147 (0.3%)	1.33	8/1525 (0.5%)
37	78	1.11	1/1139 (0.1%)	1.53	16/1514 (1.1%)
38	45	0.98	3/1120 (0.3%)	1.16	4/1498 (0.3%)
38	88	1.15	3/1134 (0.3%)	1.37	8/1519 (0.5%)
39	55	0.93	0/981	1.14	1/1312 (0.1%)
39	98	0.87	0/981	1.20	7/1312 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
40	65	0.71	0/886	1.11	0/1180
40	A8	0.92	0/891	1.25	4/1187 (0.3%)
41	75	0.98	5/1147 (0.4%)	1.19	7/1532 (0.5%)
41	B8	1.10	4/1137 (0.4%)	1.26	5/1519 (0.3%)
42	85	0.82	0/977	1.10	2/1301 (0.2%)
42	C8	0.98	0/968	1.17	0/1289
43	95	0.93	1/777 (0.1%)	1.14	5/1042 (0.5%)
43	D8	0.90	1/789 (0.1%)	1.21	4/1057 (0.4%)
44	A5	1.02	0/886	1.20	0/1189
44	E8	1.06	0/886	1.23	2/1189 (0.2%)
45	B5	1.00	0/749	1.14	3/1007 (0.3%)
45	F8	1.12	1/754 (0.1%)	1.48	5/1014 (0.5%)
46	C5	1.06	5/812 (0.6%)	1.28	0/1083
46	G8	1.27	5/801 (0.6%)	1.55	9/1069 (0.8%)
47	D5	0.89	4/1088 (0.4%)	0.93	0/1473
47	H8	0.75	1/1244 (0.1%)	1.06	1/1683 (0.1%)
48	E5	0.91	0/624	1.23	3/832 (0.4%)
48	I8	1.10	0/614	1.31	4/819 (0.5%)
49	F5	0.93	0/744	1.23	3/989 (0.3%)
49	J8	1.03	1/744 (0.1%)	1.32	1/989 (0.1%)
50	G5	0.80	0/565	1.09	1/748 (0.1%)
50	K8	1.08	0/570	1.65	9/755 (1.2%)
51	H5	0.76	0/464	0.94	0/623
51	L8	0.94	1/464 (0.2%)	1.14	1/623 (0.2%)
52	M8	0.82	0/375	1.36	4/507 (0.8%)
53	J5	0.87	0/448	1.16	1/606 (0.2%)
53	N8	1.00	0/381	1.28	2/516 (0.4%)
54	L5	1.05	0/399	1.23	0/526
54	P8	1.21	0/409	1.47	5/540 (0.9%)
55	M5	1.10	1/524 (0.2%)	1.44	7/691 (1.0%)
55	Q8	1.19	1/524 (0.2%)	1.61	5/691 (0.7%)
56	1L	0.46	0/1683	0.62	0/2615
57	3L	0.56	0/1777	0.74	0/2767
All	All	0.83	97/315237 (0.0%)	1.09	748/472471 (0.2%)

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
2	12	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	1E	0	3
3	22	0	2
3	2E	0	2
4	32	0	4
4	3E	0	1
5	4E	0	1
7	6E	0	1
9	82	0	1
9	8E	0	1
11	2A	0	1
11	2I	0	1
12	3A	0	1
12	3I	0	5
13	4A	0	2
13	4I	0	3
14	5A	0	1
14	5I	0	1
15	6A	0	1
16	7I	0	1
17	8I	0	1
19	AA	0	1
19	AI	0	2
20	BA	0	4
20	BI	0	1
26	14	0	1
28	71	0	1
29	11	0	6
29	19	0	6
30	21	0	11
30	29	0	6
31	31	0	3
31	39	0	11
32	41	0	3
32	49	0	6
33	51	0	3
33	59	0	3
34	61	0	4
34	69	0	6
35	15	0	4
35	58	0	3
37	35	0	4
37	78	0	7

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Mol	Chain	#Chirality outliers	#Planarity outliers
38	45	0	7
38	88	0	3
40	A8	0	2
41	75	0	2
41	B8	0	4
42	85	0	5
42	C8	0	3
43	95	0	3
43	D8	0	4
44	A5	0	1
45	B5	0	2
45	F8	0	2
46	C5	0	1
46	G8	0	6
47	D5	0	1
47	H8	0	2
48	E5	0	1
49	F5	0	3
49	J8	0	2
50	G5	0	4
50	K8	0	4
52	M8	0	5
54	P8	0	1
55	M5	0	3
55	Q8	0	2
All	All	0	209

All (97) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	15	94	HIS	C-O	-19.69	1.14	1.23
37	35	121	LYS	C-N	18.44	1.76	1.33
47	D5	80	ARG	NE-CZ	-13.25	1.18	1.33
8	7E	102	ARG	CZ-NH2	-12.09	1.17	1.33
4	3E	36	ARG	C-N	-11.41	1.07	1.33
38	45	76	LYS	C-N	11.34	1.57	1.33
38	88	124	LYS	C-N	-9.95	1.12	1.33
8	7E	102	ARG	CZ-NH1	-9.84	1.19	1.32
47	D5	80	ARG	CZ-NH2	-9.60	1.21	1.33
47	D5	80	ARG	CD-NE	-9.57	1.32	1.46
33	59	53	GLU	C-N	9.33	1.52	1.33
30	21	119	ARG	CZ-NH2	-9.23	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	7E	102	ARG	NE-CZ	-9.16	1.23	1.33
47	D5	80	ARG	CZ-NH1	-9.14	1.20	1.32
55	M5	49	VAL	CA-CB	8.94	1.66	1.54
5	4E	69	VAL	C-N	-8.94	1.12	1.33
41	B8	74	ARG	CZ-NH2	-8.87	1.22	1.33
41	75	13	ARG	CD-NE	-8.71	1.34	1.46
30	21	119	ARG	NE-CZ	-8.56	1.23	1.33
41	B8	74	ARG	CZ-NH1	-8.53	1.20	1.32
41	75	13	ARG	NE-CZ	-8.37	1.23	1.33
41	B8	74	ARG	NE-CZ	-8.21	1.24	1.33
46	C5	84	ARG	NE-CZ	-8.14	1.24	1.33
46	G8	84	ARG	CG-CD	8.10	1.76	1.52
46	C5	84	ARG	CZ-NH2	-8.10	1.23	1.33
41	B8	74	ARG	CD-NE	-7.98	1.35	1.46
35	15	94	HIS	C-N	7.97	1.43	1.33
38	45	60	ARG	NE-CZ	-7.79	1.24	1.33
17	8I	101	ARG	CZ-NH1	-7.70	1.22	1.32
4	32	191	ARG	NE-CZ	-7.63	1.24	1.33
30	21	119	ARG	CZ-NH1	-7.58	1.22	1.32
46	G8	84	ARG	CB-CG	7.52	1.75	1.52
47	H8	165	VAL	CA-CB	7.14	1.64	1.54
55	Q8	51	ALA	CA-C	-7.08	1.44	1.52
46	C5	84	ARG	CD-NE	-6.63	1.36	1.46
15	6A	62	GLN	CD-OE1	-6.62	1.10	1.23
37	78	19	VAL	CA-CB	-6.55	1.45	1.54
29	11	122	ASP	CB-CG	6.51	1.68	1.52
41	75	13	ARG	CZ-NH2	-6.45	1.25	1.33
26	1H	783	A	N3-C4	-6.42	1.22	1.34
20	BA	72	LEU	CA-C	-6.34	1.49	1.52
46	G8	84	ARG	CD-NE	6.34	1.55	1.46
41	75	12	SER	N-CA	-6.34	1.38	1.46
46	G8	40	GLU	CA-C	-6.29	1.44	1.52
15	6A	62	GLN	CD-NE2	-6.25	1.20	1.33
8	7E	102	ARG	CD-NE	-6.22	1.37	1.46
5	42	79	GLU	CD-OE1	-6.16	1.13	1.25
11	2A	99	GLN	CD-OE1	-6.16	1.11	1.23
30	21	119	ARG	CD-NE	-6.14	1.37	1.46
17	8I	101	ARG	CZ-NH2	-6.10	1.25	1.33
9	82	83	ARG	CZ-NH2	-6.08	1.25	1.33
46	C5	84	ARG	CZ-NH1	-6.06	1.24	1.32
30	21	26	ILE	CG1-CD1	-5.95	1.28	1.51
26	1H	676	A	N9-C4	-5.94	1.25	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	2A	99	GLN	CD-NE2	-5.89	1.20	1.33
31	39	38	ARG	NE-CZ	-5.85	1.26	1.33
37	35	27	HIS	CG-ND1	-5.78	1.31	1.38
30	21	21	VAL	CB-CG2	5.77	1.71	1.52
23	2K	47	G7M	O3'-P	5.75	1.61	1.56
15	6I	17	ARG	CZ-NH2	-5.73	1.25	1.33
31	31	57	VAL	CB-CG1	-5.69	1.33	1.52
26	1H	783	A	C5-C6	-5.66	1.29	1.41
31	39	38	ARG	CZ-NH1	-5.66	1.24	1.32
38	45	60	ARG	CZ-NH1	-5.64	1.24	1.32
26	14	783	A	N9-C4	-5.62	1.26	1.37
23	2K	8	4SU	O3'-P	5.61	1.61	1.56
38	88	85	LYS	N-CA	-5.55	1.35	1.46
45	F8	3	THR	CA-CB	-5.54	1.44	1.53
19	AI	41	VAL	CA-CB	5.53	1.61	1.54
17	8I	101	ARG	NE-CZ	-5.49	1.27	1.33
26	14	1950	G	C2-N3	5.48	1.43	1.32
29	11	35	LYS	CG-CD	-5.47	1.36	1.52
38	88	21	THR	CB-CG2	5.47	1.70	1.52
26	1H	676	A	N9-C8	5.45	1.48	1.37
43	95	80	GLN	CG-CD	5.44	1.65	1.52
46	G8	55	TYR	CB-CG	-5.40	1.39	1.51
26	14	783	A	C5-C6	-5.40	1.30	1.41
3	22	173	VAL	C-N	5.34	1.46	1.33
32	49	106	LEU	CG-CD1	-5.34	1.34	1.52
29	11	229	VAL	CB-CG1	-5.34	1.34	1.52
26	1H	2503	A	C5-C6	-5.33	1.30	1.41
26	1H	1108	U	O3'-P	5.33	1.69	1.61
29	19	30	GLU	CG-CD	5.32	1.65	1.52
37	35	27	HIS	CB-CG	-5.32	1.42	1.50
49	J8	93	GLU	CG-CD	5.31	1.65	1.52
31	31	82	ILE	CG1-CD1	-5.31	1.31	1.51
26	1H	1108	U	C4'-C3'	5.29	1.60	1.52
51	L8	10	LYS	CE-NZ	5.20	1.65	1.49
26	14	676	A	N9-C8	5.17	1.48	1.37
29	11	30	GLU	CG-CD	5.17	1.65	1.52
30	21	116	VAL	CB-CG2	-5.16	1.35	1.52
26	1H	140	A	C5-C6	-5.09	1.30	1.41
43	D8	88	ARG	C-N	-5.07	1.25	1.33
26	1H	2346	A	N3-C4	-5.03	1.24	1.34
46	C5	71	LYS	CD-CE	-5.01	1.37	1.52
26	1H	1950	G	C1'-N9	5.00	1.55	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	75	8	LYS	CB-CG	-5.00	1.37	1.52

All (748) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	K8	17	SER	N-CA-C	20.37	126.47	108.13
45	F8	3	THR	CA-C-N	11.75	142.85	121.70
45	F8	3	THR	C-N-CA	11.75	142.85	121.70
32	49	6	ALA	N-CA-C	11.52	127.33	113.28
29	19	44	ASN	CA-C-N	11.42	142.25	121.70
29	19	44	ASN	C-N-CA	11.42	142.25	121.70
29	11	39	LYS	CA-C-N	11.23	142.99	121.54
29	11	39	LYS	C-N-CA	11.23	142.99	121.54
37	78	20	GLY	N-CA-C	-11.11	100.79	113.79
45	F8	3	THR	N-CA-C	-10.89	96.49	110.53
29	19	272	ALA	N-CA-C	10.64	124.81	108.42
46	G8	81	LYS	CA-C-N	10.44	152.05	127.00
46	G8	81	LYS	C-N-CA	10.44	152.05	127.00
46	G8	99	CYS	N-CA-C	10.35	122.64	111.36
29	11	30	GLU	N-CA-C	-9.87	89.78	110.80
37	78	19	VAL	CA-C-N	9.71	134.99	123.44
37	78	19	VAL	C-N-CA	9.71	134.99	123.44
26	14	1992	G	C2'-C3'-O3'	9.67	124.00	109.50
50	K8	17	SER	N-CA-CB	-9.44	102.39	111.27
13	4A	95	GLY	N-CA-C	9.38	135.41	113.18
52	M8	39	CYS	N-CA-C	-9.23	91.14	110.80
52	M8	38	LYS	CA-C-N	9.21	139.14	121.54
52	M8	38	LYS	C-N-CA	9.21	139.14	121.54
26	1H	2681	C	C2'-C3'-O3'	9.19	123.28	109.50
46	G8	81	LYS	C-N-CD	-9.02	100.77	120.60
19	AA	66	MET	N-CA-C	8.59	129.09	110.80
41	75	13	ARG	N-CA-C	-8.48	102.94	113.38
26	1H	1992	G	C2'-C3'-O3'	8.29	121.93	109.50
29	11	39	LYS	N-CA-C	8.26	128.39	110.80
26	14	141	A	OP2-P-O3'	8.25	123.34	105.20
29	11	229	VAL	CG1-CB-CG2	-7.94	93.33	110.80
38	45	83	MET	CB-CG-SD	7.91	136.44	112.70
26	14	465	G	O5'-P-OP2	7.91	131.72	108.00
26	14	1967	C	O5'-P-OP2	-7.63	85.11	108.00
26	14	1647	G	O5'-P-OP2	-7.62	85.13	108.00
30	21	152	LYS	CA-C-N	-7.61	109.14	122.83
30	21	152	LYS	C-N-CA	-7.61	109.14	122.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	78	37	GLY	N-CA-C	-7.58	100.61	110.69
30	21	54	GLN	CA-C-N	7.57	140.27	121.80
30	21	54	GLN	C-N-CA	7.57	140.27	121.80
36	68	112	MET	CB-CG-SD	7.55	135.35	112.70
26	1H	1204	A	O4'-C1'-N9	7.55	119.52	108.20
26	1H	2261	C	OP1-P-O3'	-7.53	85.42	108.00
25	4K	18	G	C4'-C3'-O3'	7.52	120.68	109.40
34	69	131	LYS	CA-C-N	7.47	144.93	127.00
34	69	131	LYS	C-N-CA	7.47	144.93	127.00
33	51	12	PRO	CA-C-N	7.47	135.80	121.54
33	51	12	PRO	C-N-CA	7.47	135.80	121.54
29	19	40	THR	N-CA-C	7.46	118.45	108.38
26	1H	141(A)	C	OP1-P-O3'	-7.44	85.68	108.00
26	1H	389	G	O5'-P-OP1	-7.43	85.72	108.00
26	1H	945	A	N9-C1'-C2'	7.38	125.07	114.00
1	13	1516	G	OP2-P-O3'	7.37	130.12	108.00
55	Q8	46	ARG	CA-C-N	7.36	134.95	121.70
55	Q8	46	ARG	C-N-CA	7.36	134.95	121.70
29	19	271	ILE	N-CA-C	7.35	119.90	107.18
55	Q8	30	ARG	CA-CB-CG	7.34	128.77	114.10
1	13	972	C	OP1-P-OP2	-7.33	97.61	119.60
26	1H	684	G	OP1-P-O3'	-7.28	86.17	108.00
48	I8	41	ARG	CA-C-N	-7.27	113.44	122.75
48	I8	41	ARG	C-N-CA	-7.27	113.44	122.75
26	1H	826	U	OP1-P-O3'	-7.26	86.22	108.00
26	1H	746	A	O5'-P-OP2	7.25	129.74	108.00
37	78	23	PRO	CA-C-N	-7.24	107.21	121.41
37	78	23	PRO	C-N-CA	-7.24	107.21	121.41
29	11	272	ALA	CA-C-N	7.24	135.37	121.54
29	11	272	ALA	C-N-CA	7.24	135.37	121.54
55	M5	48	PHE	CA-C-N	7.22	134.97	121.97
55	M5	48	PHE	C-N-CA	7.22	134.97	121.97
26	1H	138	G	N9-C1'-C2'	7.22	122.83	112.00
26	1H	1573	G	OP1-P-O3'	-7.21	86.37	108.00
29	11	56	GLY	CA-C-N	-7.19	107.33	121.41
29	11	56	GLY	C-N-CA	-7.19	107.33	121.41
26	1H	1381	G	OP1-P-O3'	-7.13	86.62	108.00
43	D8	35	LEU	CA-C-N	7.11	126.87	119.76
43	D8	35	LEU	C-N-CA	7.11	126.87	119.76
26	1H	1598	C	OP1-P-O3'	7.10	129.31	108.00
41	B8	42	ILE	CB-CG1-CD1	7.10	128.71	113.80
26	14	769	G	OP1-P-O3'	7.08	129.25	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	19	271	ILE	CA-C-N	-7.05	107.59	121.91
29	19	271	ILE	C-N-CA	-7.05	107.59	121.91
29	19	44	ASN	N-CA-C	7.04	125.81	110.80
26	1H	1136	G	O5'-P-OP2	-7.04	86.90	108.00
31	31	64	ILE	CG1-CB-CG2	-7.03	89.61	110.70
50	K8	16	LEU	CA-C-N	-7.03	111.45	122.56
50	K8	16	LEU	C-N-CA	-7.03	111.45	122.56
26	14	2038	G	OP1-P-OP2	-7.02	98.53	119.60
29	19	41	GLY	CA-C-O	-7.01	114.50	121.93
27	16	13	A	O5'-P-OP2	-6.98	87.07	108.00
26	14	2000	G	O5'-P-OP1	6.97	128.92	108.00
29	19	273	ARG	N-CA-C	6.92	125.54	110.80
26	1H	1799	G	C2'-C3'-O3'	6.92	119.88	109.50
26	1H	1969	A	O5'-P-OP2	6.89	128.68	108.00
48	E5	35	ASN	CA-C-N	-6.89	111.47	122.50
48	E5	35	ASN	C-N-CA	-6.89	111.47	122.50
26	14	917	A	O5'-P-OP1	-6.89	87.34	108.00
26	1H	2022	U	O5'-P-OP1	6.82	128.47	108.00
46	G8	84	ARG	N-CA-C	-6.82	98.35	108.79
26	1H	863	A	O5'-P-OP2	-6.79	87.63	108.00
54	P8	35	ARG	NE-CZ-NH1	-6.78	114.72	121.50
26	14	454	A	O5'-P-OP2	-6.78	87.66	108.00
26	1H	534	U	OP2-P-O3'	6.76	128.29	108.00
26	1H	788	A	OP1-P-O3'	-6.76	87.73	108.00
26	1H	730	C	O5'-P-OP1	6.75	128.25	108.00
26	1H	974	G	O5'-P-OP2	-6.72	87.84	108.00
26	14	1816	G	O5'-P-OP1	-6.70	87.90	108.00
29	19	41	GLY	N-CA-C	-6.69	104.76	112.79
4	3E	122	ARG	CG-CD-NE	6.68	126.71	112.00
26	1H	2272	U	O5'-P-OP1	6.68	128.05	108.00
29	11	30	GLU	CB-CG-CD	6.66	123.91	112.60
26	1H	2346	A	O4'-C1'-N9	6.64	118.17	108.20
31	39	68	LYS	CA-C-N	-6.64	112.48	123.37
31	39	68	LYS	C-N-CA	-6.64	112.48	123.37
26	1H	1800	C	O5'-P-OP2	6.63	127.90	108.00
34	69	131	LYS	C-N-CD	-6.62	106.04	120.60
37	35	44	GLY	CA-C-N	6.60	132.17	121.74
37	35	44	GLY	C-N-CA	6.60	132.17	121.74
26	14	2457	U	OP1-P-O3'	-6.59	88.22	108.00
26	1H	211	A	OP1-P-O3'	-6.57	88.28	108.00
29	11	35	LYS	CG-CD-CE	-6.57	96.19	111.30
26	14	507	A	OP1-P-OP2	-6.56	99.91	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	11	272	ALA	N-CA-C	6.55	124.75	110.80
39	98	38	VAL	CB-CA-C	-6.55	107.48	113.70
26	1H	752	A	C4'-C3'-O3'	6.55	119.22	109.40
26	1H	684	G	OP2-P-O3'	6.54	127.62	108.00
26	1H	1110	G	O3'-P-O5'	6.54	113.81	104.00
54	P8	39	ARG	NE-CZ-NH2	-6.50	113.34	119.20
35	58	76	SER	CA-C-N	-6.49	104.94	122.46
35	58	76	SER	C-N-CA	-6.49	104.94	122.46
33	51	5	GLY	CA-C-N	6.48	133.92	121.54
33	51	5	GLY	C-N-CA	6.48	133.92	121.54
26	14	910	A	OP1-P-O3'	-6.48	88.55	108.00
26	1H	587	C	C4'-C3'-O3'	6.48	119.12	109.40
30	21	1	MET	CA-C-N	6.48	132.76	120.97
30	21	1	MET	C-N-CA	6.48	132.76	120.97
38	45	82	ARG	N-CA-C	6.46	124.11	113.89
26	1H	1006	C	O5'-P-OP1	-6.46	88.61	108.00
26	1H	2439	A	OP1-P-O3'	6.46	127.37	108.00
1	13	1517	G	O5'-P-OP2	-6.45	88.64	108.00
26	1H	2259	G	OP1-P-OP2	-6.44	100.28	119.60
26	14	752	A	C4'-C3'-O3'	6.43	119.05	109.40
26	14	1984	G	O5'-P-OP2	-6.42	88.75	108.00
26	1H	1647	G	O5'-P-OP1	-6.41	88.77	108.00
26	1H	2085	C	O5'-P-OP2	-6.40	88.80	108.00
26	1H	628	G	OP1-P-OP2	6.40	138.80	119.60
50	G5	33	MET	CB-CG-SD	-6.40	93.50	112.70
26	14	2072	G	OP1-P-OP2	-6.40	100.41	119.60
26	14	1643	G	OP1-P-O3'	-6.39	88.82	108.00
26	14	1602	U	O5'-P-OP2	6.39	127.16	108.00
46	G8	99	CYS	CA-C-N	6.38	133.18	121.70
46	G8	99	CYS	C-N-CA	6.38	133.18	121.70
26	14	783	A	C2-N3-C4	-6.37	91.49	110.60
1	13	1498	U	P-O3'-C3'	6.36	129.74	120.20
26	14	2443	C	O5'-P-OP2	6.36	127.08	108.00
32	49	106	LEU	CD1-CG-CD2	-6.36	96.82	110.80
55	M5	48	PHE	CA-C-O	-6.33	113.38	120.66
26	1H	1204	A	C5'-C4'-C3'	-6.32	105.71	115.20
26	1H	870	A	OP1-P-O3'	6.32	126.95	108.00
26	1H	2066	C	O3'-P-O5'	-6.32	94.53	104.00
55	Q8	50	LEU	CA-CB-CG	-6.32	94.20	116.30
12	3I	61	THR	CA-C-N	6.31	133.60	121.54
12	3I	61	THR	C-N-CA	6.31	133.60	121.54
26	14	1347	G	OP1-P-O3'	6.31	126.93	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	13	1516	G	OP1-P-O3'	-6.30	89.09	108.00
26	1H	248	G	OP2-P-O3'	-6.29	89.14	108.00
26	1H	222	A	C2'-C3'-O3'	6.29	118.93	109.50
29	19	271	ILE	N-CA-CB	-6.27	104.19	112.34
26	1H	839	U	O5'-P-OP2	-6.26	89.21	108.00
29	11	37	LEU	CA-CB-CG	-6.26	94.37	116.30
29	19	272	ALA	CA-C-N	6.26	133.49	121.54
29	19	272	ALA	C-N-CA	6.26	133.49	121.54
26	1H	1811	G	OP1-P-O3'	-6.25	89.26	108.00
26	1H	1694	C	C4'-C3'-O3'	6.24	118.76	109.40
26	1H	1786	A	N9-C1'-C2'	6.24	123.36	114.00
26	14	122	G	OP1-P-O3'	-6.23	89.30	108.00
26	14	2492	U	O5'-P-OP2	6.23	126.68	108.00
26	14	802	A	O5'-P-OP2	-6.22	89.34	108.00
26	1H	1786	A	OP1-P-O3'	6.22	126.66	108.00
26	1H	1373	A	O5'-P-OP1	6.21	126.64	108.00
26	1H	1628	G	O5'-P-OP1	6.21	126.64	108.00
26	14	770	G	OP1-P-OP2	-6.21	100.96	119.60
1	13	186	C	OP1-P-O3'	6.21	118.86	105.20
31	39	67	GLN	CB-CA-C	-6.21	101.12	110.06
26	1H	1629	U	O5'-P-OP2	6.21	126.62	108.00
43	95	79	VAL	CA-C-N	6.20	133.37	121.54
43	95	79	VAL	C-N-CA	6.20	133.37	121.54
30	21	131	ALA	CA-C-N	6.18	131.53	122.63
30	21	131	ALA	C-N-CA	6.18	131.53	122.63
55	M5	58	ILE	CB-CG1-CD1	-6.18	100.82	113.80
26	1H	1601	G	OP1-P-OP2	-6.17	101.09	119.60
37	78	22	GLY	N-CA-C	6.17	124.92	112.34
37	78	26	GLY	N-CA-C	-6.16	98.59	113.18
26	1H	866	A	O3'-P-O5'	-6.16	94.77	104.00
26	1H	1265	A	C5'-C4'-C3'	-6.15	105.97	115.20
26	1H	1955	U	C2'-C3'-O3'	6.15	118.73	109.50
29	19	30	GLU	CB-CG-CD	6.15	123.06	112.60
37	78	42	SER	CA-C-N	-6.15	105.86	122.46
37	78	42	SER	C-N-CA	-6.15	105.86	122.46
32	49	5	VAL	N-CA-C	-6.13	96.59	109.34
26	14	750	A	O3'-P-O5'	-6.13	94.81	104.00
26	14	2038	G	O5'-P-OP2	6.12	126.36	108.00
26	14	2275	C	P-O3'-C3'	6.12	129.38	120.20
26	14	2502	G	O5'-P-OP1	-6.11	89.66	108.00
26	1H	1108	U	O3'-P-O5'	6.11	113.17	104.00
26	14	2503	A	O5'-P-OP2	-6.11	89.68	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	1H	197	A	OP1-P-O3'	-6.10	89.70	108.00
26	1H	1517	G	OP1-P-O3'	6.10	126.29	108.00
26	14	2326	C	O5'-P-OP1	-6.09	89.72	108.00
26	1H	685	A	OP1-P-OP2	6.09	137.87	119.60
26	1H	1518	C	O5'-P-OP1	-6.08	89.75	108.00
26	14	2439	A	P-O3'-C3'	6.08	129.32	120.20
26	14	2275	C	O3'-P-O5'	-6.07	94.89	104.00
41	B8	54	ARG	CG-CD-NE	6.07	125.35	112.00
27	16	36	C	OP1-P-O3'	-6.07	89.79	108.00
26	1H	1616	A	OP1-P-OP2	6.07	137.80	119.60
26	1H	2333	A	O3'-P-O5'	-6.06	94.91	104.00
50	K8	59	ARG	NE-CZ-NH2	6.05	124.65	119.20
26	14	1950	G	N9-C1'-C2'	6.04	121.07	112.00
26	14	594	U	OP1-P-O3'	-6.04	89.88	108.00
26	14	693	C	OP2-P-O3'	6.04	126.12	108.00
26	14	2005	A	O5'-P-OP2	-6.03	89.90	108.00
30	29	23	VAL	N-CA-C	6.03	121.89	109.34
7	62	141	VAL	N-CA-C	-6.03	99.36	108.17
37	78	37	GLY	CA-C-O	-6.03	115.02	121.35
26	14	270(V)	G	OP1-P-O3'	6.03	118.47	105.20
26	1H	863	A	O5'-P-OP1	6.03	126.08	108.00
26	1H	783	A	N9-C1'-C2'	-6.02	102.97	112.00
26	14	179	G	OP1-P-OP2	6.01	137.63	119.60
38	88	85	LYS	N-CA-C	-6.01	94.18	111.00
26	1H	2387	U	OP1-P-O3'	-5.99	90.02	108.00
26	1H	2701	C	O3'-P-O5'	5.99	112.99	104.00
26	1H	1022	G	C2'-C3'-O3'	5.99	118.49	109.50
26	1H	2060	A	P-O3'-C3'	5.99	129.19	120.20
37	35	33	ARG	CA-C-N	5.99	133.15	121.41
37	35	33	ARG	C-N-CA	5.99	133.15	121.41
33	51	13	LYS	N-CA-C	5.99	123.56	110.80
26	1H	676	A	O4'-C1'-N9	5.99	117.48	108.50
29	11	68	LYS	CA-C-N	-5.98	111.13	121.66
29	11	68	LYS	C-N-CA	-5.98	111.13	121.66
33	51	82	GLY	CA-C-N	5.98	132.96	121.54
33	51	82	GLY	C-N-CA	5.98	132.96	121.54
26	1H	1302	A	OP1-P-OP2	5.98	137.53	119.60
26	1H	2698	U	O5'-P-OP2	-5.98	90.06	108.00
26	1H	963	U	OP1-P-OP2	-5.97	101.67	119.60
26	1H	1647	G	O5'-P-OP2	5.97	125.92	108.00
26	1H	658	C	OP1-P-O3'	-5.97	90.10	108.00
26	1H	1430	C	OP1-P-O3'	5.96	125.90	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	11	217	ARG	CG-CD-NE	5.96	125.12	112.00
26	1H	1373	A	O5'-P-OP2	-5.96	90.12	108.00
26	1H	2346	A	N9-C1'-C2'	5.96	122.94	114.00
26	1H	1335	U	C3'-C2'-O2'	-5.96	101.77	110.70
38	88	29	PHE	CA-C-N	-5.96	110.43	121.15
38	88	29	PHE	C-N-CA	-5.96	110.43	121.15
26	1H	2328	A	N9-C1'-C2'	5.95	120.93	112.00
26	14	1302	A	OP1-P-OP2	5.95	137.46	119.60
43	95	80	GLN	CB-CG-CD	5.95	122.72	112.60
26	14	2258	C	O5'-P-OP1	-5.95	90.15	108.00
46	G8	40	GLU	N-CA-C	-5.95	100.80	110.20
1	13	687	A	P-O3'-C3'	5.94	129.11	120.20
26	14	1992	G	P-O3'-C3'	5.93	129.10	120.20
38	45	78	PRO	N-CA-C	5.93	124.69	112.47
26	1H	2030	A	O5'-P-OP2	-5.92	90.23	108.00
44	E8	42	ARG	CA-C-N	-5.92	110.45	122.66
44	E8	42	ARG	C-N-CA	-5.92	110.45	122.66
40	A8	24	LEU	CA-CB-CG	5.92	137.03	116.30
26	1H	774	A	O5'-P-OP2	-5.92	90.24	108.00
26	14	2579	C	O5'-P-OP2	-5.92	90.25	108.00
29	19	44	ASN	O-C-N	-5.91	114.73	122.59
46	G8	84	ARG	CA-CB-CG	5.91	125.92	114.10
26	1H	852	G	OP1-P-O3'	-5.91	90.28	108.00
49	F5	36	GLY	N-CA-C	5.90	127.17	113.18
26	1H	262	A	OP1-P-O3'	-5.89	90.32	108.00
26	14	188	G	OP1-P-OP2	5.89	137.27	119.60
26	1H	866	A	O4'-C1'-N9	-5.89	99.67	108.50
26	14	1348	G	O5'-P-OP2	5.89	125.66	108.00
26	14	746	A	O5'-P-OP2	5.88	125.64	108.00
26	1H	1023	U	OP2-P-O3'	-5.88	90.36	108.00
31	31	74	ARG	CA-C-N	-5.87	111.59	121.75
31	31	74	ARG	C-N-CA	-5.87	111.59	121.75
1	13	1498	U	C2'-C3'-O3'	5.87	118.31	109.50
30	21	65	GLY	N-CA-C	-5.87	106.40	115.73
45	B5	40	LYS	CA-C-N	-5.87	113.36	122.16
45	B5	40	LYS	C-N-CA	-5.87	113.36	122.16
26	14	2446	G	OP2-P-O3'	5.86	125.59	108.00
1	13	115	G	C2'-C3'-O3'	5.86	118.28	109.50
26	1H	244	A	P-O3'-C3'	-5.86	111.42	120.20
29	19	65	ILE	CB-CG1-CD1	-5.85	101.51	113.80
38	88	79	LEU	CA-C-N	5.85	132.71	121.54
38	88	79	LEU	C-N-CA	5.85	132.71	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	K8	59	ARG	NE-CZ-NH1	-5.84	115.66	121.50
26	1H	1785	A	OP2-P-O3'	5.84	125.52	108.00
29	11	65	ILE	CB-CG1-CD1	-5.82	101.58	113.80
26	1H	213	A	OP1-P-O3'	-5.82	90.54	108.00
26	1H	1794	U	O5'-P-OP2	-5.82	90.55	108.00
4	32	191	ARG	NE-CZ-NH1	-5.82	115.69	121.50
27	16	8	U	O5'-P-OP1	5.81	125.43	108.00
31	31	197	ASP	N-CA-C	-5.81	98.43	110.80
30	21	129	HIS	CA-C-N	-5.80	113.50	119.94
30	21	129	HIS	C-N-CA	-5.80	113.50	119.94
26	14	2433	A	OP1-P-O3'	-5.80	90.59	108.00
26	1H	752	A	C2'-C3'-O3'	5.80	118.20	109.50
26	1H	2706	G	OP1-P-O3'	-5.80	90.60	108.00
47	H8	6	LYS	N-CA-C	-5.80	98.44	110.80
27	16	64	C	OP1-P-O3'	5.80	125.40	108.00
26	14	1786	A	N9-C1'-C2'	5.79	122.69	114.00
26	1H	2603	G	O5'-P-OP1	-5.79	90.62	108.00
2	12	190	THR	CA-C-N	5.79	132.60	121.54
2	12	190	THR	C-N-CA	5.79	132.60	121.54
26	1H	2029	G	O5'-P-OP1	-5.79	90.63	108.00
26	1H	682	G	O5'-P-OP2	-5.79	90.64	108.00
26	14	1762	A	OP2-P-O3'	5.78	125.34	108.00
54	P8	12	ARG	NE-CZ-NH1	-5.78	115.72	121.50
26	1H	85	G	O5'-P-OP1	5.77	125.32	108.00
26	1H	2324	C	N1-C1'-C2'	5.77	120.66	112.00
26	1H	598	G	OP1-P-O3'	-5.77	90.69	108.00
8	72	72	PRO	CA-C-N	5.77	135.88	121.80
8	72	72	PRO	C-N-CA	5.77	135.88	121.80
26	1H	965	C	OP1-P-OP2	5.77	136.90	119.60
20	BA	71	THR	CA-C-N	-5.76	114.20	121.98
20	BA	71	THR	C-N-CA	-5.76	114.20	121.98
26	1H	974	G	OP2-P-O3'	5.76	117.88	105.20
26	1H	1904	G	OP2-P-O3'	5.76	125.27	108.00
26	1H	2591	C	O5'-P-OP2	-5.75	90.73	108.00
12	3I	47	LYS	N-CA-C	5.75	120.08	109.10
26	1H	1142	U	OP1-P-O3'	5.75	117.85	105.20
26	14	2457	U	OP2-P-O3'	5.73	125.18	108.00
26	1H	2691	C	OP1-P-O3'	-5.72	90.84	108.00
35	15	126	PRO	CA-C-N	5.72	132.46	121.54
35	15	126	PRO	C-N-CA	5.72	132.46	121.54
26	14	2030	A	N9-C1'-C2'	5.72	120.57	112.00
26	14	1283	G	OP1-P-OP2	5.71	136.72	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	75	8	LYS	CB-CG-CD	-5.71	98.17	111.30
26	14	2275	C	C4'-C3'-O3'	5.70	117.95	109.40
41	75	33	LYS	CG-CD-CE	5.70	124.41	111.30
27	1J	102	G	OP1-P-O3'	-5.70	90.91	108.00
26	1H	2424	C	OP1-P-OP2	5.69	136.67	119.60
39	98	9	LYS	CA-C-N	-5.69	114.54	123.13
39	98	9	LYS	C-N-CA	-5.69	114.54	123.13
45	B5	63	LYS	CG-CD-CE	5.69	124.39	111.30
26	1H	2598	A	OP2-P-O3'	5.69	125.06	108.00
1	1G	266	G	P-O3'-C3'	5.69	128.73	120.20
26	14	253	C	OP1-P-O3'	-5.69	90.94	108.00
31	31	127	GLU	CA-CB-CG	-5.68	102.73	114.10
26	1H	2286	A	O5'-P-OP2	-5.68	90.96	108.00
48	E5	17	GLN	CB-CA-C	5.68	119.10	109.84
1	13	1427	U	OP1-P-O3'	-5.68	90.97	108.00
40	A8	110	LEU	CA-CB-CG	5.68	136.17	116.30
26	1H	51	G	C5'-C4'-O4'	-5.68	100.59	109.10
26	1H	83	G	P-O3'-C3'	-5.68	111.68	120.20
26	1H	1297	C	OP1-P-O3'	5.67	125.02	108.00
26	1H	2261	C	OP2-P-O3'	5.67	125.02	108.00
27	16	89	G	O5'-P-OP2	5.67	125.02	108.00
1	13	805	C	OP2-P-O3'	5.67	125.00	108.00
26	1H	132	G	OP1-P-O3'	-5.67	91.00	108.00
26	1H	593	G	O5'-P-OP2	-5.66	91.01	108.00
26	14	2438	U	O5'-P-OP2	-5.66	91.03	108.00
26	14	2080	G	C3'-C2'-O2'	-5.66	102.22	110.70
26	1H	271(B)	G	C2'-C3'-O3'	5.65	117.98	109.50
26	1H	845	G	P-O3'-C3'	5.64	128.66	120.20
35	58	21	LYS	CA-C-N	-5.63	110.78	121.54
35	58	21	LYS	C-N-CA	-5.63	110.78	121.54
29	19	49	ILE	N-CA-CB	5.63	117.07	110.82
1	13	509	A	C2'-C3'-O3'	5.63	122.14	113.70
30	21	130	GLY	N-CA-C	5.63	119.03	112.50
8	7E	89	PRO	CA-C-N	5.63	126.19	120.00
8	7E	89	PRO	C-N-CA	5.63	126.19	120.00
12	3I	46	LYS	CA-C-N	-5.62	112.05	122.06
12	3I	46	LYS	C-N-CA	-5.62	112.05	122.06
26	1H	2503	A	OP1-P-OP2	-5.62	102.73	119.60
26	1H	203	C	O5'-P-OP2	5.62	124.86	108.00
26	1H	664	C	C3'-C2'-O2'	5.62	119.13	110.70
26	1H	2380	C	N1-C1'-C2'	5.62	120.42	112.00
30	29	50	GLY	N-CA-C	5.61	126.48	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	1H	2380	C	OP1-P-O3'	-5.61	91.18	108.00
37	78	13	ASN	CA-C-N	5.61	132.25	121.54
37	78	13	ASN	C-N-CA	5.61	132.25	121.54
26	1H	627	A	OP2-P-O3'	-5.61	91.18	108.00
26	1H	46	C	OP1-P-O3'	-5.60	91.19	108.00
27	16	15	A	C4'-C3'-O3'	-5.60	104.59	113.00
26	14	510	C	O5'-P-OP2	-5.60	91.19	108.00
26	1H	1299	G	O5'-P-OP2	5.60	124.79	108.00
26	1H	1626	G	O5'-P-OP2	5.59	124.78	108.00
26	14	745	G	O3'-P-O5'	-5.59	95.61	104.00
1	13	1493	A	O5'-P-OP1	-5.59	91.24	108.00
26	1H	583	G	OP2-P-O3'	-5.59	91.24	108.00
26	14	2033	A	O5'-P-OP2	-5.59	91.24	108.00
49	F5	29	GLY	CA-C-N	5.58	132.01	121.97
49	F5	29	GLY	C-N-CA	5.58	132.01	121.97
26	1H	222	A	P-O3'-C3'	5.58	128.57	120.20
26	1H	787	U	C1'-C2'-O2'	-5.58	100.03	108.40
26	1H	676	A	OP1-P-OP2	5.57	136.32	119.60
26	14	1309	G	O5'-P-OP1	5.57	124.72	108.00
26	14	2376	A	OP2-P-O3'	-5.57	91.31	108.00
26	1H	86	C	OP1-P-O3'	-5.56	91.31	108.00
26	1H	2539	C	OP1-P-OP2	5.56	136.28	119.60
1	13	881	G	OP1-P-OP2	-5.56	102.93	119.60
45	F8	3	THR	CA-C-O	-5.55	115.56	121.94
30	21	186	GLY	CA-C-N	-5.55	109.82	121.80
30	21	186	GLY	C-N-CA	-5.55	109.82	121.80
1	13	541	G	OP1-P-OP2	-5.54	102.98	119.60
30	21	117	MET	CA-C-N	5.54	132.12	121.54
30	21	117	MET	C-N-CA	5.54	132.12	121.54
26	14	2592	G	O5'-P-OP2	-5.54	91.39	108.00
1	13	49	U	P-O3'-C3'	5.53	128.50	120.20
26	1H	1955	U	P-O3'-C3'	5.53	128.49	120.20
26	1H	2319	G	O5'-P-OP2	-5.53	91.42	108.00
26	1H	2417	C	O5'-P-OP2	-5.53	91.42	108.00
26	14	2429	G	OP1-P-O3'	-5.53	91.42	108.00
26	1H	1300	U	OP2-P-O3'	-5.52	91.43	108.00
26	1H	1767	C	C3'-C2'-O2'	-5.52	102.42	110.70
26	1H	1948	G	C3'-C2'-O2'	-5.52	102.42	110.70
37	35	21	ARG	N-CA-C	5.52	122.56	110.80
53	J5	51	TYR	CA-CB-CG	5.52	123.84	113.90
26	14	2516	G	OP1-P-O3'	-5.52	91.44	108.00
41	75	11	GLU	CA-C-N	-5.52	115.66	122.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	75	11	GLU	C-N-CA	-5.52	115.66	122.84
26	1H	608	A	O5'-P-OP1	5.51	124.55	108.00
41	B8	11	GLU	CA-C-N	-5.51	114.98	123.14
41	B8	11	GLU	C-N-CA	-5.51	114.98	123.14
26	1H	734	A	OP1-P-OP2	5.51	136.13	119.60
32	49	12	TYR	CA-C-N	-5.51	114.75	123.12
32	49	12	TYR	C-N-CA	-5.51	114.75	123.12
26	14	1784	A	P-O5'-C5'	-5.50	112.64	120.90
26	1H	1190	G	C5'-C4'-C3'	-5.49	107.76	116.00
26	1H	1984	G	O5'-P-OP2	-5.49	91.52	108.00
1	13	1299	A	N9-C1'-C2'	5.49	120.24	112.00
26	1H	1588	C	OP2-P-O3'	-5.49	91.53	108.00
26	14	2433	A	O5'-P-OP2	5.49	124.46	108.00
26	1H	2601	C	C2'-C3'-O3'	-5.48	105.48	113.70
29	19	272	ALA	N-CA-CB	-5.48	103.23	111.56
30	29	49	LEU	N-CA-C	5.48	117.36	110.24
26	1H	2453	A	O5'-P-OP1	5.48	124.43	108.00
27	16	114	G	O3'-P-O5'	-5.48	95.78	104.00
26	1H	468	G	OP1-P-OP2	-5.47	103.17	119.60
26	1H	2592	G	O5'-P-OP2	-5.47	91.58	108.00
30	29	7	VAL	CA-C-N	-5.47	111.22	120.58
30	29	7	VAL	C-N-CA	-5.47	111.22	120.58
26	1H	510	C	O5'-P-OP2	-5.47	91.59	108.00
26	14	1656	C	OP2-P-O3'	5.47	124.41	108.00
1	13	1065	U	P-O3'-C3'	5.47	128.40	120.20
26	14	1332	G	C4-N9-C1'	5.46	142.89	126.50
26	1H	674	G	OP1-P-O3'	-5.46	91.62	108.00
26	14	2546	U	OP1-P-OP2	5.46	135.99	119.60
26	1H	647	G	OP1-P-OP2	-5.45	103.24	119.60
26	1H	815	C	O5'-P-OP1	5.45	124.36	108.00
26	1H	2416	C	OP2-P-O3'	5.45	124.35	108.00
26	14	609	A	OP2-P-O3'	5.44	117.17	105.20
1	13	5	U	C4'-C3'-C2'	-5.44	97.16	102.60
26	1H	2483	C	O5'-P-OP1	-5.44	91.68	108.00
41	75	56	GLY	CA-C-N	5.44	129.30	120.60
41	75	56	GLY	C-N-CA	5.44	129.30	120.60
1	13	894	G	OP2-P-O3'	5.43	124.29	108.00
26	1H	592	G	OP1-P-O3'	-5.43	91.71	108.00
26	14	2616	C	OP1-P-O3'	-5.43	91.71	108.00
39	55	12	ARG	NE-CZ-NH1	-5.43	116.07	121.50
26	1H	2260	C	OP2-P-O3'	5.43	124.28	108.00
26	14	2455	G	OP1-P-O3'	-5.43	91.72	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	1H	783	A	C2-N3-C4	-5.42	94.33	110.60
26	1H	827	U	C2'-C3'-O3'	-5.42	105.56	113.70
26	1H	662	G	O5'-P-OP2	-5.42	91.73	108.00
26	1H	673	C	O5'-P-OP1	5.42	124.26	108.00
26	1H	271(B)	G	P-O3'-C3'	5.42	126.20	119.70
41	B8	11	GLU	CA-CB-CG	-5.42	103.27	114.10
1	1G	266	G	C2'-C3'-O3'	5.42	117.62	109.50
32	49	105	LYS	CB-CG-CD	5.42	123.76	111.30
26	14	2023	G	O5'-P-OP2	-5.41	91.76	108.00
26	14	1789	A	OP2-P-O3'	-5.41	91.77	108.00
26	14	1836	C	OP1-P-O3'	5.41	124.23	108.00
26	14	1930	G	N9-C1'-C2'	5.41	122.11	114.00
1	13	901	A	OP1-P-O3'	-5.41	91.78	108.00
26	1H	51	G	OP2-P-O3'	5.41	124.22	108.00
26	1H	1787	A	OP2-P-O3'	-5.41	91.78	108.00
29	19	64	ILE	CA-C-N	-5.41	113.65	122.57
29	19	64	ILE	C-N-CA	-5.41	113.65	122.57
1	1G	1484	C	OP1-P-OP2	5.41	135.82	119.60
26	1H	1617	C	O5'-P-OP1	-5.41	91.79	108.00
26	1H	2270	G	C3'-C2'-O2'	-5.41	102.59	110.70
26	1H	659	C	OP1-P-O3'	-5.40	91.80	108.00
30	21	144	ARG	NE-CZ-NH1	-5.40	116.10	121.50
45	F8	3	THR	O-C-N	-5.40	116.01	122.65
51	L8	31	LEU	CB-CA-C	-5.40	99.53	109.46
26	1H	2041	U	OP1-P-OP2	5.39	135.78	119.60
26	1H	1790	C	P-O3'-C3'	5.39	128.29	120.20
26	1H	2490	G	OP2-P-O3'	-5.39	91.82	108.00
31	31	44	ARG	NE-CZ-NH1	-5.39	116.11	121.50
26	14	2585	U	O5'-P-OP2	5.39	124.18	108.00
26	1H	1110	G	C4'-C3'-O3'	5.39	121.08	113.00
26	1H	1297	C	OP2-P-O3'	-5.39	91.84	108.00
49	J8	7	ILE	CA-CB-CG1	-5.39	101.24	110.40
37	78	33	ARG	NE-CZ-NH1	-5.38	116.11	121.50
26	1H	703	U	OP2-P-O3'	-5.38	91.85	108.00
26	1H	1323	U	OP1-P-OP2	-5.38	103.46	119.60
26	1H	2060	A	OP1-P-O3'	-5.38	91.87	108.00
26	1H	1381	G	OP2-P-O3'	5.38	124.13	108.00
42	85	74	LEU	N-CA-C	5.38	117.23	110.24
6	5E	65	VAL	N-CA-C	5.37	120.52	109.34
26	1H	1767	C	O5'-P-OP1	-5.37	91.88	108.00
55	Q8	4	MET	CG-SD-CE	-5.37	89.08	100.90
26	1H	2516	G	O5'-P-OP1	5.37	124.11	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	11	29	PRO	CA-N-CD	-5.37	104.49	112.00
26	14	746	A	P-O5'-C5'	-5.36	112.86	120.90
26	14	2603	G	O5'-P-OP1	-5.36	91.92	108.00
26	1H	820	A	OP1-P-O3'	-5.36	91.92	108.00
26	14	946	G	C3'-C2'-O2'	-5.36	102.67	110.70
37	35	52	GLU	CA-C-N	-5.36	110.91	121.41
37	35	52	GLU	C-N-CA	-5.36	110.91	121.41
35	15	48	MET	CB-CG-SD	5.36	128.76	112.70
26	1H	1936	A	N9-C1'-C2'	5.35	122.03	114.00
26	14	308	G	O5'-P-OP2	-5.35	91.94	108.00
26	14	462	C	O5'-P-OP2	-5.35	91.95	108.00
26	1H	331	A	O5'-C5'-C4'	-5.35	103.67	111.70
26	14	784	A	P-O3'-C3'	5.35	128.22	120.20
39	98	12	ARG	CA-C-N	-5.35	113.04	121.86
39	98	12	ARG	C-N-CA	-5.35	113.04	121.86
26	14	2710	C	OP1-P-O3'	-5.35	91.96	108.00
26	1H	1548	C	O5'-P-OP2	-5.34	91.97	108.00
26	1H	2580	U	N1-C1'-C2'	5.34	120.02	112.00
26	1H	273(B)	C	OP2-P-O3'	5.34	116.95	105.20
29	11	242	ARG	NE-CZ-NH1	-5.34	116.16	121.50
26	1H	456	C	OP1-P-OP2	5.34	135.62	119.60
26	1H	1387	C	O5'-P-OP1	-5.34	91.98	108.00
26	14	2013	A	O3'-P-O5'	-5.34	95.99	104.00
43	95	43	GLU	CA-C-N	5.34	131.74	121.54
43	95	43	GLU	C-N-CA	5.34	131.74	121.54
26	1H	789	A	P-O5'-C5'	-5.33	112.90	120.90
38	88	20	ALA	N-CA-C	5.33	118.07	110.24
26	1H	1950	G	O4'-C1'-N9	5.33	116.49	108.50
26	1H	2373	G	O5'-C5'-C4'	-5.33	103.51	111.50
26	1H	1771	C	C3'-C2'-O2'	-5.32	102.71	110.70
43	D8	37	VAL	CA-C-N	5.32	131.70	121.54
43	D8	37	VAL	C-N-CA	5.32	131.70	121.54
26	1H	1992	G	P-O3'-C3'	5.32	128.17	120.20
54	P8	39	ARG	CA-C-N	-5.31	113.21	120.44
54	P8	39	ARG	C-N-CA	-5.31	113.21	120.44
26	14	1347	G	OP2-P-O3'	-5.31	92.06	108.00
29	19	27	THR	N-CA-C	-5.31	100.07	108.73
38	45	81	VAL	N-CA-C	5.31	120.38	109.34
26	14	71	A	C2'-C3'-O3'	5.31	117.46	109.50
36	68	97	ARG	N-CA-C	5.30	122.09	110.80
26	14	669	G	O5'-P-OP1	5.30	123.91	108.00
26	1H	595	C	OP1-P-O3'	-5.30	92.10	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	88	65	PHE	N-CA-C	5.30	120.61	113.72
26	1H	2022	U	O5'-P-OP2	-5.30	92.11	108.00
26	1H	2490	G	OP1-P-O3'	5.30	123.89	108.00
26	1H	2585	U	O5'-P-OP2	5.30	123.89	108.00
26	1H	685	A	O5'-P-OP2	-5.29	92.12	108.00
26	14	1322	A	OP2-P-O3'	5.29	123.87	108.00
26	14	2439	A	C2'-C3'-O3'	5.29	117.43	109.50
26	14	1381	G	OP1-P-O3'	-5.28	92.15	108.00
53	N8	10	LYS	CA-C-N	-5.28	113.87	121.42
53	N8	10	LYS	C-N-CA	-5.28	113.87	121.42
26	1H	918	A	O5'-P-OP1	-5.28	92.17	108.00
1	13	1512	U	O5'-P-OP1	5.28	123.82	108.00
26	1H	1265	A	O5'-C5'-C4'	5.28	119.61	111.70
26	1H	2330	G	OP1-P-O3'	-5.28	92.17	108.00
29	11	271	ILE	N-CA-C	5.28	117.18	112.17
26	1H	34	C	O5'-P-OP2	5.27	123.82	108.00
26	1H	974(A)	C	C4'-C3'-O3'	5.27	117.30	109.40
26	1H	251	A	C3'-C2'-O2'	-5.26	102.81	110.70
26	1H	1814	G	OP1-P-OP2	5.26	135.39	119.60
26	14	1641	A	OP1-P-O3'	-5.26	92.22	108.00
26	14	2424	C	O5'-P-OP1	-5.26	92.23	108.00
42	85	28	ARG	NE-CZ-NH1	-5.26	116.24	121.50
26	1H	1589	C	O5'-P-OP2	5.25	123.77	108.00
26	14	1955	U	N1-C1'-C2'	5.25	121.88	114.00
26	1H	1588	C	OP1-P-O3'	5.25	123.76	108.00
26	14	141(A)	C	OP1-P-O3'	-5.25	92.24	108.00
26	14	2380	C	N1-C1'-C2'	5.25	119.88	112.00
26	14	1399	C	OP2-P-O3'	5.25	123.76	108.00
26	1H	2295	C	OP1-P-OP2	-5.25	103.85	119.60
52	M8	40	HIS	N-CA-C	5.24	121.40	109.81
26	14	2879	C	O5'-P-OP2	5.24	123.73	108.00
26	1H	852	G	OP2-P-O3'	5.24	123.71	108.00
26	14	452	G	C3'-C2'-O2'	-5.24	102.84	110.70
26	1H	220	G	OP1-P-OP2	-5.23	103.90	119.60
1	13	703	G	C4'-C3'-O3'	5.23	117.25	109.40
37	78	28	GLY	N-CA-C	-5.23	101.73	111.14
40	A8	107	GLU	CA-C-N	5.23	130.95	122.69
40	A8	107	GLU	C-N-CA	5.23	130.95	122.69
26	14	252	G	O5'-P-OP2	-5.23	92.32	108.00
26	14	578	A	OP1-P-O3'	-5.23	92.32	108.00
26	1H	75	G	OP1-P-O3'	-5.23	92.32	108.00
26	1H	1600	C	OP1-P-O3'	5.23	123.68	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	13	578	C	OP2-P-O3'	5.22	123.67	108.00
26	1H	918	A	O5'-P-OP2	5.22	123.67	108.00
26	1H	2251	G	OP1-P-O3'	5.22	123.67	108.00
29	11	59	LYS	CA-C-N	-5.22	114.47	122.62
29	11	59	LYS	C-N-CA	-5.22	114.47	122.62
26	1H	583	G	OP1-P-O3'	5.22	123.66	108.00
33	51	10	PRO	N-CA-C	5.22	123.22	112.47
26	14	1558	A	P-O3'-C3'	5.22	128.03	120.20
26	14	2297	C	O5'-P-OP1	-5.22	92.35	108.00
26	1H	789	A	O5'-P-OP1	-5.22	92.35	108.00
26	14	684	G	O5'-P-OP2	-5.21	92.36	108.00
26	1H	137	C	OP1-P-O3'	-5.21	93.73	105.20
26	1H	1376	C	O5'-P-OP1	-5.21	92.36	108.00
26	1H	1623	G	C3'-C2'-O2'	-5.21	102.88	110.70
26	1H	2331	G	C2'-C3'-O3'	5.21	121.52	113.70
29	11	30	GLU	CB-CA-C	5.21	120.78	110.42
26	14	1251	C	OP1-P-OP2	5.21	135.22	119.60
1	13	328	C	O5'-P-OP1	-5.20	92.39	108.00
26	1H	2429	G	OP1-P-OP2	-5.20	104.00	119.60
39	98	6	SER	CA-C-N	5.20	131.60	121.41
39	98	6	SER	C-N-CA	5.20	131.60	121.41
26	14	221	A	C5'-C4'-C3'	-5.20	107.40	115.20
26	14	685	A	O4'-C1'-N9	5.20	116.00	108.20
1	13	1285	A	C2'-C3'-O3'	5.20	117.30	109.50
26	1H	1196	C	OP1-P-O3'	-5.20	92.41	108.00
55	M5	49	VAL	N-CA-CB	5.20	119.80	111.23
33	51	11	VAL	N-CA-C	5.19	120.10	108.88
26	1H	826	U	OP2-P-O3'	5.19	123.57	108.00
1	1G	1200	C	N1-C1'-C2'	5.19	119.78	112.00
55	M5	57	ARG	CA-C-N	-5.19	112.63	121.97
55	M5	57	ARG	C-N-CA	-5.19	112.63	121.97
26	1H	37	C	C2'-C3'-O3'	-5.19	105.92	113.70
48	I8	14	ARG	CA-C-N	5.19	131.44	121.54
48	I8	14	ARG	C-N-CA	5.19	131.44	121.54
26	1H	945	A	O3'-P-O5'	-5.18	96.22	104.00
26	1H	1694	C	P-O3'-C3'	5.18	127.98	120.20
26	1H	1784	A	O4'-C1'-N9	-5.18	100.42	108.20
26	1H	805	G	OP1-P-O3'	5.18	123.55	108.00
26	14	2461	C	O5'-P-OP2	-5.18	92.45	108.00
26	1H	1257	C	C1'-C2'-O2'	-5.18	100.63	108.40
26	1H	676	A	N3-C4-N9	-5.17	111.88	127.40
26	14	1819	A	C4'-C3'-O3'	5.17	117.16	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	1J	47	C	OP1-P-O3'	5.17	123.52	108.00
29	19	29	PRO	N-CA-C	-5.17	101.81	112.47
26	1H	141(A)	C	O5'-P-OP1	-5.17	92.49	108.00
26	14	929	G	N1-C6-O6	5.17	135.40	119.90
37	35	37	GLY	N-CA-C	-5.17	103.66	110.74
26	14	2455	G	OP2-P-O3'	5.16	123.49	108.00
26	1H	2552	U	N1-C2-O2	-5.16	107.32	122.80
26	1H	2712	U	OP2-P-O3'	5.16	116.55	105.20
26	14	1787	A	OP1-P-OP2	-5.16	104.12	119.60
1	13	115	G	C4'-C3'-O3'	5.16	117.14	109.40
26	1H	1558	A	P-O3'-C3'	5.16	127.94	120.20
26	1H	2275	C	O3'-P-O5'	-5.16	96.27	104.00
26	14	235	U	P-O3'-C3'	-5.15	112.47	120.20
26	14	676	A	O4'-C1'-N9	5.15	116.23	108.50
26	14	197	A	OP1-P-O3'	-5.15	92.55	108.00
26	1H	1404	C	O5'-P-OP2	-5.15	92.55	108.00
26	1H	140	A	O4'-C1'-N9	5.14	116.22	108.50
26	1H	2427	C	O5'-P-OP2	5.14	123.42	108.00
12	3A	18	VAL	CA-C-N	5.14	131.36	121.54
12	3A	18	VAL	C-N-CA	5.14	131.36	121.54
26	1H	825	C	C1'-C2'-O2'	-5.14	100.69	108.40
26	14	1677	A	OP2-P-O3'	5.14	123.42	108.00
26	1H	941	A	OP2-P-O3'	5.14	123.41	108.00
26	14	2598	A	OP2-P-O3'	5.13	123.40	108.00
26	1H	736	C	O5'-P-OP2	5.13	123.39	108.00
26	1H	1193	G	O5'-P-OP2	-5.13	92.61	108.00
26	14	1936	A	C2'-C3'-O3'	-5.13	101.80	109.50
32	49	106	LEU	N-CA-C	5.13	118.98	111.34
29	11	165	ILE	CA-C-N	-5.13	112.52	122.06
29	11	165	ILE	C-N-CA	-5.13	112.52	122.06
26	14	784	A	OP1-P-O3'	5.13	123.39	108.00
26	14	1296	G	O5'-P-OP1	5.13	123.38	108.00
1	1G	311	C	OP1-P-O3'	-5.13	92.62	108.00
26	14	128	C	C2'-C3'-O3'	5.13	121.39	113.70
26	14	1643	G	OP2-P-O3'	5.13	123.38	108.00
35	58	126	PRO	CA-C-N	5.12	131.33	121.54
35	58	126	PRO	C-N-CA	5.12	131.33	121.54
26	14	2070	G	OP2-P-O3'	5.12	123.37	108.00
1	13	115	G	P-O3'-C3'	5.12	127.88	120.20
26	14	2033	A	OP1-P-OP2	5.12	134.95	119.60
14	5I	43	CYS	CA-CB-SG	-5.11	102.64	114.40
26	1H	791	C	OP1-P-O3'	-5.11	92.67	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	21	69	LYS	N-CA-C	-5.11	106.89	113.02
26	1H	1818	U	O5'-P-OP2	-5.11	92.67	108.00
26	1H	2429	G	OP2-P-O3'	5.11	123.33	108.00
12	3I	47	LYS	CA-C-N	-5.11	113.45	119.84
12	3I	47	LYS	C-N-CA	-5.11	113.45	119.84
26	1H	2307	G	O5'-P-OP2	-5.11	92.67	108.00
29	11	233	HIS	CA-C-N	-5.11	111.40	121.41
29	11	233	HIS	C-N-CA	-5.11	111.40	121.41
29	11	60	ARG	NE-CZ-NH2	-5.11	114.60	119.20
26	14	270(C)	C	OP2-P-O3'	5.11	116.44	105.20
50	K8	3	LEU	CA-C-N	5.11	130.89	121.70
50	K8	3	LEU	C-N-CA	5.11	130.89	121.70
26	1H	2272	U	O5'-P-OP2	-5.10	92.69	108.00
26	1H	1673	U	C2'-C3'-O3'	5.10	121.35	113.70
26	14	2776	A	C2'-C3'-O3'	5.10	117.15	109.50
1	13	50	A	C5'-C4'-O4'	5.09	116.74	109.10
26	1H	186	G	OP1-P-O3'	-5.09	92.72	108.00
32	49	34	LEU	CA-C-N	5.09	132.25	121.91
32	49	34	LEU	C-N-CA	5.09	132.25	121.91
26	1H	1403	C	O5'-P-OP2	-5.09	92.72	108.00
36	25	11	ALA	CA-C-N	5.09	133.05	122.41
36	25	11	ALA	C-N-CA	5.09	133.05	122.41
26	1H	1280	G	OP1-P-OP2	-5.09	104.33	119.60
26	14	2584	U	O5'-P-OP1	5.09	123.28	108.00
26	14	793	A	O5'-P-OP2	-5.09	92.73	108.00
35	58	96	GLU	N-CA-C	-5.09	99.97	110.80
26	14	252	G	O5'-P-OP1	5.09	123.26	108.00
26	1H	848	G	O5'-P-OP2	-5.08	92.75	108.00
26	1H	1382	G	O5'-P-OP1	5.08	123.25	108.00
26	14	871	U	O5'-P-OP2	5.08	123.25	108.00
26	1H	120	U	OP2-P-O3'	-5.08	92.76	108.00
50	K8	50	ILE	CB-CG1-CD1	5.08	124.47	113.80
1	13	913	A	C4'-C3'-O3'	5.08	117.02	109.40
26	1H	1202	C	OP1-P-O3'	-5.08	92.77	108.00
26	1H	242	G	C2'-C3'-O3'	-5.08	101.89	109.50
26	1H	255	A	OP1-P-O3'	-5.08	92.77	108.00
26	1H	2286	A	O5'-P-OP1	5.08	123.23	108.00
26	1H	1310	G	O5'-P-OP2	5.07	123.22	108.00
29	19	271	ILE	O-C-N	-5.07	118.41	122.97
26	1H	1930	G	O5'-P-OP2	-5.07	92.79	108.00
37	78	36	LYS	CB-CA-C	-5.07	109.25	116.34
1	13	509	A	C4'-C3'-O3'	5.07	120.60	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	1H	692	C	OP1-P-O3'	-5.06	92.81	108.00
26	1H	916	G	O5'-P-OP2	5.06	123.18	108.00
26	14	788	A	OP1-P-O3'	-5.06	92.83	108.00
26	1H	1818	U	OP1-P-OP2	5.06	134.77	119.60
26	1H	1616	A	C5-C6-N6	-5.05	108.54	123.70
23	2L	48	U	P-O3'-C3'	5.05	127.78	120.20
26	1H	730	C	OP1-P-OP2	-5.05	104.45	119.60
26	1H	743	G	OP1-P-OP2	5.05	134.75	119.60
26	1H	2439	A	OP2-P-O3'	-5.05	92.86	108.00
26	1H	2572	A	O5'-P-OP1	5.05	123.14	108.00
26	14	1407	C	C5'-C4'-C3'	-5.05	108.43	116.00
26	14	1698	A	N1-C6-N6	5.04	133.73	118.60
26	1H	329	G	O5'-P-OP2	-5.04	92.89	108.00
26	14	786	C	O5'-P-OP2	-5.04	92.89	108.00
26	1H	2007	C	C2'-C3'-O3'	-5.04	106.14	113.70
26	14	2068	U	O5'-P-OP1	-5.04	92.90	108.00
1	13	1486	G	O5'-P-OP2	-5.03	92.90	108.00
26	1H	71	A	N9-C1'-C2'	-5.03	106.45	114.00
26	1H	802	A	OP1-P-O3'	-5.03	92.91	108.00
26	1H	1238	G	N9-C1'-C2'	-5.03	104.45	112.00
26	1H	1556	C	O5'-P-OP1	-5.03	92.91	108.00
26	1H	2275	C	OP1-P-O3'	5.03	123.09	108.00
1	13	1336	C	C2'-C3'-O3'	5.03	117.04	109.50
26	14	2263	C	C2'-C3'-O3'	-5.03	106.16	113.70
26	14	2078	C	O5'-P-OP2	5.02	123.07	108.00
26	1H	1393	A	O5'-P-OP2	-5.02	92.95	108.00
26	14	1953	A	O5'-P-OP2	5.02	123.05	108.00
1	1G	186	C	OP1-P-O3'	5.01	116.23	105.20
26	14	1692	U	C2-N1-C1'	-5.01	102.66	117.70
26	14	2844	G	OP1-P-O3'	-5.01	92.96	108.00
38	88	25	ASP	N-CA-C	5.01	121.47	110.80
26	14	939	G	OP1-P-O3'	-5.01	92.96	108.00
26	1H	1763	G	C2'-C3'-O3'	-5.01	106.19	113.70
1	13	1502	A	N9-C1'-C2'	5.01	121.51	114.00
26	14	1935	G	O5'-P-OP1	5.01	123.02	108.00
26	14	2600	A	OP2-P-O3'	5.01	123.02	108.00
1	13	668	G	O5'-P-OP1	-5.00	92.98	108.00
26	1H	858	U	OP1-P-O3'	-5.00	92.99	108.00
26	14	194	G	OP1-P-OP2	-5.00	104.60	119.60

There are no chirality outliers.

All (209) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
29	11	113	VAL	Peptide
29	11	122	ASP	Peptide
29	11	236	GLY	Peptide
29	11	237	GLU	Peptide
29	11	29	PRO	Peptide
29	11	41	GLY	Peptide
2	12	127	ILE	Peptide
2	12	19	HIS	Peptide
2	12	22	LYS	Peptide
2	12	23	ARG	Peptide
2	12	44	LEU	Peptide
2	12	98	LEU	Peptide
26	14	463	G	Sidechain
35	15	124	ALA	Peptide
35	15	127	ASP	Peptide
35	15	135	PRO	Peptide
35	15	41	ASP	Peptide
29	19	237	GLU	Peptide
29	19	27	THR	Peptide
29	19	271	ILE	Peptide
29	19	273	ARG	Peptide
29	19	28	GLU	Peptide
29	19	9	TYR	Peptide
2	1E	169	LYS	Peptide
2	1E	234	PRO	Peptide
2	1E	9	GLU	Peptide
30	21	153	GLY	Peptide
30	21	18	ASP	Peptide
30	21	187	ALA	Peptide
30	21	19	ARG	Peptide
30	21	53	PRO	Peptide
30	21	56	PRO	Peptide
30	21	57	LYS	Peptide
30	21	64	LYS	Peptide
30	21	77	ILE	Peptide
30	21	78	LEU	Peptide
30	21	82	ARG	Peptide
3	22	125	GLU	Peptide
3	22	88	ARG	Peptide
30	29	202	LYS	Peptide
30	29	61	ARG	Peptide
30	29	76	ARG	Peptide
30	29	87	GLU	Peptide

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Mol	Chain	Res	Type	Group
30	29	88	GLY	Peptide
30	29	89	ASP	Peptide
11	2A	49	GLY	Peptide
3	2E	128	PHE	Peptide
3	2E	166	GLU	Peptide
11	2I	102	GLY	Peptide
31	31	130	ALA	Peptide
31	31	133	ASN	Peptide
31	31	17	ARG	Peptide
4	32	154	ASN	Peptide
4	32	179	GLU	Peptide
4	32	29	PRO	Peptide
4	32	84	LYS	Peptide
37	35	107	LYS	Peptide
37	35	110	TYR	Peptide
37	35	36	LYS	Peptide
37	35	70	GLN	Peptide
31	39	12	LEU	Peptide
31	39	123	LEU	Peptide
31	39	127	GLU	Peptide
31	39	146	ALA	Peptide
31	39	15	SER	Peptide
31	39	166	ALA	Peptide
31	39	20	LEU	Peptide
31	39	24	LEU	Peptide
31	39	26	ALA	Peptide
31	39	82	ILE	Peptide
31	39	89	VAL	Peptide
12	3A	46	LYS	Peptide
4	3E	151	LYS	Peptide
12	3I	118	SER	Peptide
12	3I	125	PRO	Peptide
12	3I	47	LYS	Peptide
12	3I	48	PRO	Peptide
12	3I	87	GLY	Peptide
32	41	82	LEU	Peptide
32	41	85	GLY	Peptide
32	41	95	ARG	Peptide
38	45	134	ARG	Peptide
38	45	135	ASP	Peptide
38	45	137	TYR	Peptide
38	45	24	GLY	Peptide

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Mol	Chain	Res	Type	Group
38	45	79	LEU	Peptide
38	45	80	GLU	Peptide
38	45	82	ARG	Peptide
32	49	106	LEU	Peptide
32	49	113	ARG	Peptide
32	49	13	GLU	Peptide
32	49	142	PRO	Peptide
32	49	4	ASP	Peptide
32	49	5	VAL	Peptide
13	4A	57	ARG	Peptide
13	4A	94	ARG	Peptide
5	4E	112	LEU	Peptide
13	4I	105	THR	Peptide
13	4I	107	ALA	Peptide
13	4I	94	ARG	Peptide
33	51	137	ASP	Peptide
33	51	152	ARG	Peptide
33	51	155	SER	Peptide
35	58	47	ALA	Peptide
35	58	49	GLY	Peptide
35	58	56	ASN	Peptide
33	59	144	VAL	Peptide
33	59	150	ALA	Peptide
33	59	7	LEU	Peptide
14	5A	27	CYS	Peptide
14	5I	14	PRO	Peptide
34	61	11	ASN	Peptide
34	61	114	LEU	Peptide
34	61	134	PRO	Peptide
34	61	61	ARG	Peptide
34	69	101	LEU	Peptide
34	69	112	LYS	Peptide
34	69	142	VAL	Peptide
34	69	143	SER	Peptide
34	69	75	LEU	Peptide
34	69	77	LEU	Peptide
15	6A	12	ILE	Peptide
7	6E	5	ARG	Peptide
28	71	38	ASP	Peptide
41	75	11	GLU	Peptide
41	75	12	SER	Peptide
37	78	115	LEU	Peptide

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Mol	Chain	Res	Type	Group
37	78	12	ALA	Peptide
37	78	18	ARG	Peptide
37	78	19	VAL	Peptide
37	78	24	GLY	Peptide
37	78	26	GLY	Peptide
37	78	36	LYS	Peptide
16	7I	51	VAL	Peptide
9	82	117	HIS	Peptide
42	85	72	HIS	Peptide
42	85	90	VAL	Peptide
42	85	95	LEU	Peptide
42	85	96	ALA	Peptide
42	85	98	LEU	Peptide
38	88	138	ASP	Peptide
38	88	20	ALA	Peptide
38	88	58	PHE	Peptide
9	8E	110	GLU	Peptide
17	8I	48	GLU	Peptide
43	95	44	LYS	Peptide
43	95	49	THR	Peptide
43	95	80	GLN	Peptide
44	A5	43	GLY	Peptide
40	A8	110	LEU	Peptide
40	A8	3	ARG	Peptide
19	AA	66	MET	Peptide
19	AI	6	LYS	Peptide
19	AI	7	LYS	Peptide
45	B5	61	GLY	Peptide
45	B5	93	GLU	Peptide
41	B8	12	SER	Peptide
41	B8	2	ASN	Peptide
41	B8	54	ARG	Peptide
41	B8	58	ASN	Peptide
20	BA	101	GLY	Peptide
20	BA	11	SER	Peptide
20	BA	72	LEU	Peptide
20	BA	99	LEU	Peptide
20	BI	12	ALA	Peptide
46	C5	81	LYS	Peptide
42	C8	75	ASN	Peptide
42	C8	90	VAL	Peptide
42	C8	95	LEU	Peptide

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Mol	Chain	Res	Type	Group
47	D5	61	LEU	Peptide
43	D8	36	PRO	Peptide
43	D8	44	LYS	Peptide
43	D8	48	GLY	Peptide
43	D8	49	THR	Peptide
48	E5	17	GLN	Peptide
49	F5	78	LYS	Peptide
49	F5	82	LEU	Peptide
49	F5	85	LEU	Peptide
45	F8	2	LYS	Peptide
45	F8	24	GLY	Peptide
50	G5	15	LYS	Peptide
50	G5	17	SER	Peptide
50	G5	42	GLY	Peptide
50	G5	43	GLN	Peptide
46	G8	10	GLY	Peptide
46	G8	53	PRO	Peptide
46	G8	54	LYS	Peptide
46	G8	80	GLY	Peptide
46	G8	84	ARG	Peptide
46	G8	94	LYS	Peptide
47	H8	59	LEU	Peptide
47	H8	63	ASP	Peptide
49	J8	75	GLU	Peptide
49	J8	85	LEU	Peptide
50	K8	15	LYS	Peptide
50	K8	17	SER	Peptide
50	K8	2	LYS	Peptide
50	K8	46	GLN	Peptide
55	M5	29	LYS	Peptide
55	M5	40	GLU	Peptide
55	M5	48	PHE	Peptide
52	M8	37	SER	Peptide
52	M8	38	LYS	Peptide
52	M8	40	HIS	Peptide
52	M8	43	TYR	Peptide
52	M8	45	GLY	Peptide
54	P8	45	ALA	Peptide
55	Q8	49	VAL	Peptide
55	Q8	51	ALA	Peptide

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	13	32097	0	16197	1110	0
1	1G	32152	0	16231	1236	2
2	12	1695	0	1729	136	0
2	1E	1874	0	1926	147	0
3	22	1529	0	1592	136	0
3	2E	1605	0	1668	87	0
4	32	1702	0	1764	163	0
4	3E	1696	0	1752	140	0
5	42	1136	0	1200	106	0
5	4E	1142	0	1204	90	0
6	52	842	0	857	51	0
6	5E	837	0	852	50	0
7	62	1110	0	1163	83	0
7	6E	1229	0	1274	78	0
8	72	1107	0	1165	75	0
8	7E	1115	0	1177	81	0
9	82	820	0	848	86	0
9	8E	1000	0	1031	98	0
10	1A	474	0	484	44	0
10	1I	593	0	610	48	0
11	2A	835	0	847	31	0
11	2I	823	0	833	52	0
12	3A	947	0	1033	81	0
12	3I	956	0	1046	50	0
13	4A	893	0	946	89	0
13	4I	942	0	997	71	0
14	5A	388	0	424	49	0
14	5I	491	0	530	38	0
15	6A	729	0	768	35	0
15	6I	729	0	768	54	0
16	7A	705	0	725	53	0
16	7I	671	0	693	60	0
17	8A	823	0	891	37	0
17	8I	834	0	904	55	0
18	9A	544	0	605	35	0
18	9I	544	0	605	34	0
19	AA	283	0	284	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	AI	654	0	675	56	0
20	BA	757	0	856	56	0
20	BI	746	0	843	58	0
21	1B	204	0	218	18	0
21	1F	199	0	208	10	0
22	1K	1477	0	758	63	0
23	2K	1646	0	844	42	0
23	2L	1646	0	844	58	0
24	3K	1611	0	817	93	0
25	4K	439	0	219	17	0
25	4L	373	0	185	10	0
26	14	61630	0	31047	1930	1
26	1H	60960	0	30668	1948	0
27	16	2617	0	1328	92	0
27	1J	2617	0	1328	135	0
28	71	1050	0	1071	89	0
29	11	2120	0	2197	176	0
29	19	2120	0	2197	175	0
30	21	1558	0	1624	126	0
30	29	1558	0	1622	193	0
31	31	1585	0	1632	129	0
31	39	1602	0	1649	128	0
32	41	1457	0	1514	137	0
32	49	1457	0	1514	173	0
33	51	1312	0	1384	88	0
33	59	539	0	563	42	0
34	61	1131	0	1218	81	1
34	69	1131	0	1218	86	0
35	15	1096	0	1168	65	0
35	58	1104	0	1180	78	0
36	25	932	0	996	69	0
36	68	932	0	996	52	0
37	35	1130	0	1217	144	0
37	78	1122	0	1206	127	0
38	45	1099	0	1154	114	0
38	88	1113	0	1156	83	0
39	55	967	0	1033	59	0
39	98	967	0	1033	66	0
40	65	876	0	938	93	0
40	A8	881	0	943	87	0
41	75	1133	0	1190	82	0
41	B8	1123	0	1181	108	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	85	959	0	1019	74	0
42	C8	950	0	1011	85	0
43	95	766	0	837	83	0
43	D8	778	0	851	84	0
44	A5	876	0	941	41	0
44	E8	876	0	941	50	0
45	B5	735	0	785	56	0
45	F8	740	0	787	52	0
46	C5	799	0	888	80	0
46	G8	788	0	875	93	0
47	D5	1064	0	1082	93	0
47	H8	1218	0	1241	76	0
48	E5	616	0	633	50	0
48	I8	606	0	625	41	0
49	F5	737	0	813	63	0
49	J8	737	0	813	53	0
50	G5	563	0	612	35	0
50	K8	568	0	614	48	0
51	H5	459	0	512	19	0
51	L8	459	0	512	20	0
52	M8	366	0	370	50	0
53	J5	434	0	454	32	0
53	N8	369	0	388	46	0
54	L5	391	0	432	24	0
54	P8	401	0	436	19	0
55	M5	516	0	582	51	0
55	Q8	516	0	582	59	0
56	1L	1570	0	798	39	0
57	3L	1611	0	817	69	0
58	11	1	0	0	0	0
58	13	141	0	0	0	0
58	14	420	0	0	0	0
58	16	12	0	0	0	0
58	1G	78	0	0	0	0
58	1H	488	0	0	0	0
58	1J	6	0	0	0	0
58	21	2	0	0	0	0
58	29	3	0	0	0	0
58	2K	3	0	0	0	0
58	2L	3	0	0	0	0
58	32	1	0	0	0	0
58	35	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	3I	1	0	0	0	0
58	4I	1	0	0	0	0
58	45	3	0	0	0	0
58	55	1	0	0	0	0
58	5E	2	0	0	0	0
58	5I	1	0	0	0	0
58	78	1	0	0	0	0
58	7A	1	0	0	0	0
58	85	2	0	0	0	0
58	88	1	0	0	0	0
58	C5	1	0	0	0	0
58	C8	1	0	0	0	0
58	E5	1	0	0	0	0
58	I8	1	0	0	0	0
58	J8	2	0	0	0	0
58	L5	1	0	0	0	0
58	P8	1	0	0	0	0
58	Q8	1	0	0	0	0
59	32	8	0	0	4	0
59	3E	8	0	0	0	0
60	5A	1	0	0	0	0
60	5I	1	0	0	0	0
60	C5	1	0	0	0	0
60	G8	1	0	0	0	0
61	11	9	0	0	0	0
61	13	148	0	0	21	0
61	14	411	0	0	57	0
61	16	18	0	0	4	0
61	19	4	0	0	2	0
61	1G	44	0	0	6	0
61	1H	670	0	0	78	0
61	1J	11	0	0	2	0
61	1K	1	0	0	0	0
61	21	5	0	0	2	0
61	29	3	0	0	0	0
61	31	6	0	0	0	0
61	35	2	0	0	0	0
61	39	8	0	0	0	0
61	3E	2	0	0	1	0
61	3I	2	0	0	0	0
61	4K	6	0	0	0	0
61	55	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	58	2	0	0	0	0
61	5A	3	0	0	2	0
61	5I	1	0	0	0	0
61	6I	1	0	0	0	0
61	78	3	0	0	1	0
61	B8	1	0	0	0	0
61	BA	1	0	0	0	0
61	D8	1	0	0	0	0
61	E5	1	0	0	0	0
61	E8	1	0	0	0	0
61	F5	2	0	0	0	0
61	G8	1	0	0	0	0
61	I8	1	0	0	0	0
61	L5	1	0	0	0	0
61	M5	2	0	0	0	0
61	Q8	1	0	0	0	0
All	All	292607	0	194506	12295	2

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 26.

All (12295) 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)
46:G8:84:ARG:CB	46:G8:84:ARG:CG	1.75	1.63
46:G8:84:ARG:CG	46:G8:84:ARG:CD	1.76	1.61
29:19:246:PRO:N	29:19:255:LYS:HZ1	1.11	1.43
37:35:121:LYS:C	37:35:122:PRO:N	1.77	1.40
30:29:119:ARG:HH11	30:29:120:TRP:NE1	1.15	1.38
3:22:29:TYR:CE1	3:22:33:LEU:HD22	1.61	1.35
26:14:2572:A:C8	30:29:144:ARG:HD2	1.64	1.31
26:14:957:A:H5'	38:45:76:LYS:CD	1.59	1.30
2:1E:189:ASP:CG	2:1E:205:ASP:OD1	1.78	1.27
26:1H:389:G:P	49:J8:25:LYS:NZ	2.09	1.26
15:6I:26:GLU:OE2	15:6I:77:ARG:NE	1.67	1.25
32:49:111:LEU:HD23	32:49:140:ILE:CD1	1.65	1.25
34:61:135:GLU:OE1	34:61:136:VAL:N	1.70	1.24
37:35:52:GLU:N	37:35:52:GLU:OE2	1.71	1.23
35:58:48:MET:O	35:58:48:MET:HE2	1.36	1.23
3:22:29:TYR:CZ	3:22:33:LEU:HD22	1.76	1.20
32:49:111:LEU:CD2	32:49:140:ILE:HD13	1.70	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:29:119:ARG:NH1	30:29:120:TRP:NE1	1.90	1.18
43:D8:1:MET:SD	43:D8:43:GLU:HG2	1.82	1.18
40:A8:61:ASN:ND2	40:A8:64:GLU:OE1	1.77	1.17
35:58:48:MET:O	35:58:48:MET:CE	1.93	1.16
29:19:246:PRO:N	29:19:255:LYS:NZ	1.95	1.15
26:1H:943:U:OP2	37:78:36:LYS:NZ	1.79	1.14
26:1H:389:G:P	49:J8:25:LYS:HZ2	1.68	1.13
37:78:126:VAL:HG12	37:78:147:LEU:HD11	1.29	1.13
49:F5:91:LYS:NZ	49:F5:95:LEU:HD22	1.62	1.13
40:A8:85:VAL:HG23	40:A8:112:PHE:HZ	1.01	1.12
26:1H:2714:G:OP2	61:1H:3501:HOH:O	1.67	1.12
49:F5:92:LYS:HD3	49:F5:93:GLU:H	1.02	1.11
3:22:29:TYR:CE1	3:22:33:LEU:CD2	2.35	1.10
26:1H:2711:A:OP2	61:1H:3501:HOH:O	1.68	1.09
46:G8:85:VAL:HG23	46:G8:96:ILE:HG13	1.36	1.08
26:14:957:A:C5'	38:45:76:LYS:HD3	1.83	1.07
30:29:119:ARG:NH1	30:29:120:TRP:CE2	2.23	1.06
40:A8:85:VAL:HG23	40:A8:112:PHE:CZ	1.89	1.06
26:1H:95:G:OP1	50:K8:46:GLN:OE1	1.74	1.05
42:C8:92:ARG:HD2	43:D8:11:GLN:HG3	1.40	1.04
32:49:114:ILE:HD13	32:49:140:ILE:HG21	1.40	1.04
1:13:974:A:OP2	14:5I:41:ARG:NH1	1.92	1.03
39:55:51:LEU:HD22	39:55:66:VAL:HG23	1.41	1.03
26:1H:389:G:OP1	49:J8:25:LYS:NZ	1.84	1.03
38:45:25:ASP:HB3	38:45:102:VAL:H	1.21	1.03
3:22:29:TYR:CE1	3:22:33:LEU:HB2	1.92	1.02
26:14:2415:G:H4'	37:35:67:MET:H	1.20	1.02
1:1G:998:G:N2	1:1G:1043:C:N3	2.08	1.01
1:13:837:G:OP2	1:13:842:C:N4	1.92	1.01
26:14:2075:U:OP1	29:19:244:ARG:NH2	1.92	1.01
49:F5:85:LEU:HD13	49:F5:88:LYS:HG3	1.40	1.01
26:1H:2124:G:H5''	28:71:174:PRO:HG3	1.43	1.01
32:41:161:THR:HG22	32:41:163:ALA:H	1.22	1.01
32:49:15:VAL:O	32:49:19:LEU:HD12	1.60	1.01
32:41:132:ASN:HB3	32:41:158:ALA:HA	1.40	1.00
32:41:131:TYR:O	32:41:159:VAL:HG22	1.60	1.00
38:45:81:VAL:O	38:45:82:ARG:NH1	1.92	1.00
38:45:36:ALA:HB2	38:45:103:MET:HE2	1.38	1.00
26:1H:863:A:N7	61:1H:3511:HOH:O	1.93	0.99
13:4A:13:LYS:HD3	13:4A:14:ARG:H	1.25	0.99
4:32:60:GLU:HG2	4:32:202:LEU:HB2	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:19:246:PRO:HG2	29:19:255:LYS:HE3	1.43	0.99
9:8E:112:LYS:HA	9:8E:119:ALA:HB2	1.44	0.99
19:AI:40:ILE:HG12	19:AI:41:VAL:HG13	1.43	0.99
26:1H:818:G:OP2	61:1H:3502:HOH:O	1.81	0.98
26:14:2414:G:H21	37:35:67:MET:HE1	1.27	0.98
17:8I:76:LEU:HD11	17:8I:79:SER:HB3	1.42	0.98
26:1H:1109:C:O2	26:1H:1110:G:N2	1.96	0.98
29:19:28:GLU:OE1	29:19:28:GLU:O	1.82	0.98
26:14:957:A:H5'	38:45:76:LYS:HD3	0.98	0.98
18:9A:21:LYS:HE2	18:9A:57:GLY:HA3	1.45	0.97
30:29:54:GLN:NE2	30:29:72:VAL:O	1.96	0.97
26:14:1970:A:OP1	61:14:3501:HOH:O	1.82	0.97
26:1H:862:G:OP2	61:1H:3503:HOH:O	1.81	0.96
26:1H:1187:G:O6	61:1H:3502:HOH:O	1.81	0.96
26:14:2135:A:N7	26:14:2156:G:N2	2.13	0.96
49:F5:91:LYS:HZ3	49:F5:95:LEU:HD22	1.22	0.96
2:12:75:LYS:HA	2:12:78:GLN:HB2	1.44	0.96
26:14:1997:G:OP2	61:14:3502:HOH:O	1.83	0.96
47:D5:91:LEU:HD13	47:D5:130:PRO:HG3	1.47	0.96
29:19:246:PRO:CD	29:19:255:LYS:HZ1	1.78	0.96
26:1H:2577:A:H5''	26:1H:2578:G:H5'	1.46	0.96
24:3K:59:A:H3'	24:3K:60:U:H5'	1.47	0.96
26:14:957:A:H5'	38:45:76:LYS:CE	1.95	0.96
3:22:29:TYR:HE1	3:22:33:LEU:HD22	1.31	0.95
5:42:31:LEU:HD23	5:42:45:PHE:HB3	1.47	0.95
38:45:66:ILE:HD12	38:45:67:ARG:H	1.27	0.95
27:16:15:A:H5'	27:16:16:G:H8	1.30	0.95
1:1G:474:G:H2'	1:1G:475:G:H8	1.30	0.95
2:1E:189:ASP:OD2	2:1E:205:ASP:OD1	1.83	0.95
30:29:119:ARG:NH1	30:29:120:TRP:HE1	1.53	0.95
26:1H:1634:A:OP2	61:1H:3504:HOH:O	1.85	0.95
30:29:119:ARG:NH1	30:29:120:TRP:CZ2	2.34	0.95
43:95:2:PHE:HD2	43:95:42:GLY:HA2	1.32	0.95
26:14:2611:U:H6	26:14:2611:U:H5'	1.31	0.95
13:4I:10:PRO:HB2	13:4I:18:ALA:HB1	1.48	0.95
26:1H:912:C:OP1	38:88:8:LYS:NZ	1.98	0.95
41:B8:3:ARG:HB2	41:B8:6:LEU:HB2	1.49	0.94
27:16:15:A:H5'	27:16:16:G:C8	2.01	0.94
28:71:45:ALA:HB2	28:71:212:VAL:HG22	1.49	0.94
1:13:1502:A:H2	1:13:1505:G:H1	1.13	0.94
31:39:53:THR:HG22	31:39:55:GLY:H	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:19:245:PRO:C	29:19:255:LYS:HZ1	1.75	0.94
30:29:60:ASN:HB2	30:29:62:PRO:HD2	1.49	0.94
26:1H:2576:G:OP1	61:1H:3505:HOH:O	1.86	0.94
1:1G:1395:C:HO2'	1:1G:1401:G:HO2'	1.07	0.94
26:14:1359:A:N6	26:14:1372:U:H3	1.66	0.94
26:14:676:A:H8	26:14:2069:G:H21	1.12	0.93
31:31:6:VAL:N	31:31:24:LEU:O	2.01	0.93
1:13:509:A:OP2	61:13:1801:HOH:O	1.85	0.93
1:13:1123:A:HO2'	10:1I:38:ILE:N	1.66	0.93
22:1K:76:A:H8	26:1H:2583:G:H21	1.12	0.93
26:1H:674:G:H1'	31:31:74:ARG:HD3	1.47	0.93
26:1H:751:A:H5'	44:E8:90:ARG:HA	1.48	0.93
31:31:185:ASP:OD1	31:31:188:ARG:NH1	2.02	0.93
40:A8:11:LYS:HD3	40:A8:91:PRO:HD3	1.51	0.93
56:1L:34:U:O4	25:4L:21:A:N6	2.01	0.93
35:58:47:ALA:HB2	35:58:112:LEU:HD11	1.50	0.93
1:13:468:A:H5''	16:7I:80:PHE:CD1	2.04	0.93
1:13:963:G:N3	10:1I:55:LYS:NZ	2.16	0.93
30:21:119:ARG:HD3	30:21:160:TYR:HB2	1.50	0.93
4:32:157:LEU:O	4:32:161:ASN:ND2	2.01	0.93
24:3K:19:G:N2	26:1H:2112:G:N3	2.18	0.92
5:42:101:ILE:O	5:42:120:THR:OG1	1.86	0.92
26:1H:1899:G:N2	26:1H:1902:C:H41	1.65	0.92
26:14:1771:C:HO2'	26:14:1786:A:H8	0.93	0.92
32:49:114:ILE:HB	32:49:117:PHE:HB2	1.52	0.92
1:13:455:C:N3	1:13:477:G:N2	2.15	0.92
1:13:613:C:H42	1:13:627:G:H1	1.17	0.92
26:14:275:G:N2	26:14:276:A:N7	2.17	0.92
26:1H:320:A:OP1	31:31:135:LYS:NZ	2.02	0.91
2:12:91:PRO:HG2	2:12:155:LEU:HG	1.52	0.91
32:49:106:LEU:CG	32:49:111:LEU:HG	1.99	0.91
26:1H:2590:A:OP2	29:11:237:GLU:HB3	1.70	0.91
49:J8:93:GLU:CD	49:J8:94:LEU:H	1.79	0.91
50:G5:50:ILE:HD12	50:G5:51:ARG:H	1.34	0.91
45:B5:63:LYS:O	45:B5:63:LYS:HD2	1.70	0.91
1:13:1077:G:N2	1:13:1080:A:OP2	2.03	0.91
42:C8:8:VAL:HG23	42:C8:11:ARG:HH21	1.35	0.91
26:14:2485:G:H5''	38:45:46:GLN:HE21	1.35	0.91
26:1H:270(K):C:O2	26:1H:270(N):G:N2	2.04	0.91
26:1H:993:G:OP1	42:C8:50:ARG:NH2	2.04	0.91
29:11:31:LYS:HG3	29:11:33:LEU:HD21	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:E8:73:ALA:HB3	44:E8:106:ILE:HB	1.53	0.91
26:1H:2315:G:H21	32:41:128:ARG:HH22	1.19	0.90
1:1G:838:G:N2	1:1G:848:C:N3	2.20	0.90
26:1H:1047:G:N2	26:1H:1111:A:OP2	2.03	0.90
26:14:654(B):C:HO2'	26:14:654(S):G:H1	1.12	0.90
26:14:957:A:O4'	38:45:76:LYS:HE2	1.69	0.90
30:29:25:VAL:HG12	30:29:26:ILE:H	1.36	0.90
32:49:111:LEU:HD23	32:49:140:ILE:HD13	0.92	0.90
42:85:91:ASP:OD1	42:85:96:ALA:N	2.04	0.90
20:BI:69:GLY:O	20:BI:73:HIS:NE2	2.05	0.90
5:42:79:GLU:O	8:72:104:ARG:NH1	2.04	0.90
31:39:123:LEU:O	31:39:125:LEU:N	2.03	0.90
11:2I:41:THR:HG21	11:2I:71:LYS:HD2	1.52	0.90
26:14:2873:A:H8	39:55:6:SER:H	1.17	0.90
49:F5:92:LYS:HD3	49:F5:93:GLU:N	1.87	0.90
26:1H:1899:G:H22	26:1H:1902:C:N4	1.70	0.90
27:1J:18:G:H1	27:1J:65:C:H42	1.13	0.90
32:41:98:ARG:NE	52:M8:1:MET:SD	2.45	0.90
36:25:13:ASN:HD21	36:25:96:THR:HG23	1.36	0.90
26:1H:1899:G:H22	26:1H:1902:C:H41	0.90	0.90
13:4A:31:LYS:HA	13:4A:34:LEU:HD21	1.52	0.90
55:M5:48:PHE:HB2	55:M5:49:VAL:HG22	1.52	0.90
15:6I:26:GLU:OE2	15:6I:77:ARG:CZ	2.21	0.89
26:14:869:G:H5'	38:45:6:ARG:HH21	1.33	0.89
26:1H:1257:C:H4'	31:31:83:PHE:CD1	2.08	0.89
26:1H:733:G:OP2	61:1H:3508:HOH:O	1.90	0.89
26:1H:2469:A:H2	26:1H:2481:G:H21	1.16	0.89
29:11:37:LEU:N	29:11:37:LEU:HD23	1.88	0.89
1:13:177:C:OP1	20:BI:65:LYS:NZ	2.06	0.89
1:1G:589:C:H42	1:1G:650:G:H1	1.12	0.89
1:13:339:C:OP2	36:68:97:ARG:NH1	2.05	0.89
2:1E:68:ILE:HG13	2:1E:161:ALA:HB3	1.53	0.89
26:1H:1228:G:OP2	42:C8:16:LYS:NZ	2.06	0.89
1:1G:258:G:N7	61:1G:1701:HOH:O	2.05	0.89
3:22:29:TYR:HE1	3:22:33:LEU:CB	1.85	0.89
9:8E:47:LEU:HD12	9:8E:50:LEU:HD12	1.55	0.89
15:6I:82:ILE:O	15:6I:86:GLY:N	2.05	0.89
26:1H:138:G:N2	45:F8:44:GLU:OE2	2.04	0.89
26:1H:1981:A:OP1	61:1H:3506:HOH:O	1.89	0.89
38:88:65:PHE:O	38:88:66:ILE:HG13	1.73	0.89
15:6I:25:THR:HB	15:6I:77:ARG:NH2	1.87	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:676:A:H8	26:1H:2069:G:H21	1.13	0.89
26:1H:456:C:H3'	45:F8:68:ARG:HH12	1.37	0.89
26:1H:2789:C:O2	26:1H:2894:G:N2	2.06	0.89
7:62:113:GLU:HB2	7:62:119:ARG:HG2	1.54	0.88
45:B5:27:THR:HG22	45:B5:80:ILE:HG22	1.55	0.88
5:4E:11:ILE:HD11	5:4E:31:LEU:HD13	1.56	0.88
12:3A:20:LYS:HD2	12:3A:21:LYS:N	1.88	0.88
29:19:246:PRO:CG	29:19:255:LYS:HE3	2.03	0.88
26:1H:2781:A:H5''	26:1H:2782:G:H5'	1.52	0.88
1:1G:54:C:N4	1:1G:353:A:OP2	2.07	0.88
57:3L:55:U:H3	57:3L:57:G:H3'	1.37	0.88
37:35:79:ARG:HG2	37:35:110:TYR:HB2	1.55	0.88
40:65:50:SER:O	40:65:76:LYS:NZ	2.06	0.88
26:1H:1434:A:H61	26:1H:1558:A:N6	1.72	0.88
35:58:48:MET:O	35:58:48:MET:SD	2.30	0.88
3:22:29:TYR:OH	3:22:33:LEU:HD22	1.74	0.88
5:42:102:ALA:HB1	5:42:106:PRO:HG2	1.54	0.88
26:1H:2615:U:OP2	61:1H:3507:HOH:O	1.90	0.88
26:14:2651:C:H42	26:14:2669:G:H1	1.22	0.88
26:1H:2308:G:H1	26:1H:2311:A:H2	1.21	0.88
29:11:6:PHE:CE2	29:11:13:ARG:NH2	2.42	0.87
26:1H:135:G:O6	26:1H:144:C:N4	2.07	0.87
26:1H:1040:C:N4	26:1H:1115:G:O6	2.07	0.87
43:D8:65:GLY:HA3	43:D8:91:TYR:CE1	2.09	0.87
3:22:29:TYR:HE1	3:22:33:LEU:HB2	1.35	0.87
26:1H:2032:G:H21	30:21:146:THR:HG23	1.39	0.87
1:1G:617:G:H1	1:1G:623:C:H42	1.20	0.87
3:22:130:VAL:HG13	3:22:134:ILE:HG12	1.53	0.87
26:14:1754:C:OP1	41:75:96:ARG:NH1	2.07	0.87
39:55:103:ARG:NH2	44:A5:40:ASN:OD1	2.08	0.87
1:1G:1095:U:P	1:1G:1108:G:H1	1.98	0.87
26:14:1806:C:O2'	29:19:46:GLN:NE2	2.08	0.87
27:1J:80:U:H2'	27:1J:81:G:H21	1.39	0.87
1:13:542:G:OP1	4:3E:10:ARG:NH2	2.07	0.87
26:14:71:A:H2	45:B5:31:HIS:HE2	1.23	0.87
34:61:135:GLU:OE1	34:61:135:GLU:C	2.18	0.87
26:1H:1287:A:N7	39:98:107:ASP:HB2	1.90	0.87
26:14:2287:A:H62	26:14:2344:U:H3	1.20	0.87
46:C5:75:ILE:HA	46:C5:80:GLY:HA2	1.57	0.87
49:F5:80:LEU:HD12	49:F5:82:LEU:HD13	1.57	0.87
50:G5:25:VAL:HG12	50:G5:60:LEU:HD23	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:568:U:O4	61:1H:3510:HOH:O	1.92	0.86
26:1H:1239:G:OP1	61:1H:3509:HOH:O	1.92	0.86
43:D8:21:ARG:NE	43:D8:93:GLU:OE2	2.08	0.86
3:22:29:TYR:HE1	3:22:33:LEU:CD2	1.83	0.86
29:11:6:PHE:HE2	29:11:13:ARG:HH21	0.94	0.86
32:41:66:GLN:HA	52:M8:6:HIS:HE1	1.40	0.86
31:39:188:ARG:HA	37:35:3:LEU:HD11	1.57	0.86
1:1G:976:G:N2	1:1G:1362(A):C:OP2	2.08	0.86
32:49:106:LEU:HG	32:49:111:LEU:HG	1.56	0.86
1:13:510:A:OP2	61:13:1802:HOH:O	1.92	0.86
1:13:601:C:H2'	1:13:602:A:H8	1.39	0.86
1:13:1422:G:H5''	36:68:48:PRO:HB3	1.57	0.86
46:G8:82:PRO:HB3	46:G8:99:CYS:HB2	1.54	0.86
3:22:29:TYR:CE1	3:22:33:LEU:CB	2.57	0.86
26:1H:2712(A):A:OP2	61:1H:3501:HOH:O	1.94	0.86
26:14:84:A:N6	26:14:102:G:O2'	2.09	0.86
15:6I:55:GLY:HA2	15:6I:58:MET:HE3	1.58	0.86
36:68:2:ILE:HD12	36:68:6:THR:HG21	1.57	0.86
1:1G:1249:C:H41	1:1G:1287:A:H5'	1.40	0.86
4:32:31:CYS:C	4:32:33:MET:H	1.82	0.86
53:N8:36:CYS:HB2	53:N8:49:CYS:SG	2.16	0.86
1:13:1122:U:O4	1:13:1123:A:N6	2.08	0.86
1:13:877:C:OP1	8:7E:88:LYS:NZ	2.09	0.85
9:82:27:THR:OG1	9:82:31:GLN:O	1.91	0.85
1:13:535:A:OP1	61:13:1803:HOH:O	1.94	0.85
16:7I:8:ARG:NH1	16:7I:15:PRO:HB3	1.91	0.85
36:25:1:MET:HE3	36:25:67:LYS:HG2	1.58	0.85
44:E8:79:GLY:HA3	44:E8:100:THR:HG22	1.56	0.85
1:13:148:G:N2	1:13:174:C:N3	2.24	0.85
1:13:1149:C:H2'	1:13:1150:U:H6	1.42	0.85
34:61:6:LEU:HD13	34:61:36:ALA:HA	1.57	0.85
16:7A:14:ASN:O	16:7A:16:HIS:N	2.08	0.85
26:14:517:C:OP2	53:J5:13:LYS:NZ	2.08	0.85
47:D5:53:ILE:HG22	47:D5:71:VAL:HG13	1.54	0.85
1:13:1290:G:O3'	7:6E:37:ASN:OD1	1.94	0.85
50:K8:4:SER:OG	50:K8:5:GLU:N	2.08	0.85
26:1H:2392:A:H2	26:1H:2424:C:H42	1.24	0.85
31:31:129:PHE:HB2	31:31:132:VAL:HG13	1.59	0.85
32:41:150:ASP:OD1	32:41:153:ARG:NH1	2.09	0.85
24:3K:34:U:H1'	24:3K:35:U:H5'	1.57	0.85
41:B8:26:ASP:HB3	41:B8:92:GLY:H	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1899:G:H21	26:14:1902:C:H41	1.24	0.85
4:32:108:LEU:HD13	4:32:174:LEU:HB3	1.58	0.85
5:42:79:GLU:HG2	5:42:92:LYS:HG3	1.57	0.85
7:62:136:LYS:NZ	7:62:137:LYS:HZ3	1.73	0.85
27:1J:15:A:H5'	27:1J:16:G:C8	2.11	0.85
1:13:1256:A:OP2	3:2E:26:LYS:NZ	2.10	0.85
39:98:41:ALA:O	39:98:44:LEU:N	2.10	0.85
26:14:71:A:OP2	26:14:71:A:H3'	1.76	0.85
29:19:44:ASN:OD1	29:19:46:GLN:HG3	1.76	0.85
26:1H:620:G:H4'	26:1H:621:A:H5''	1.57	0.84
2:1E:212:GLN:HE21	2:1E:234:PRO:HA	1.41	0.84
30:21:105:THR:OG1	30:21:199:ARG:NH2	2.09	0.84
30:21:169:ASN:HA	30:21:201:THR:HG21	1.58	0.84
26:14:71:A:H5'	26:14:71:A:C8	2.11	0.84
30:21:97:LYS:N	30:21:100:GLU:OE1	2.09	0.84
41:B8:12:SER:OG	41:B8:15:VAL:N	2.09	0.84
30:29:134:ILE:HD12	30:29:134:ILE:O	1.78	0.84
3:2E:78:GLY:HA3	3:2E:83:ARG:HB3	1.59	0.84
22:1K:52:G:H1	22:1K:62:C:H42	1.20	0.84
26:14:2415:G:H4'	37:35:67:MET:N	1.91	0.84
1:13:307:C:OP2	61:13:1804:HOH:O	1.96	0.84
1:1G:1200:C:H1'	1:1G:1204:A:H61	1.40	0.84
57:3L:6:G:N1	57:3L:67:C:O2	2.11	0.84
7:6E:35:LYS:HD3	7:6E:38:LEU:HD23	1.60	0.84
26:1H:10:G:O2'	26:1H:2801:A:N3	2.10	0.84
33:51:106:THR:HG22	33:51:112:PRO:HB3	1.57	0.84
51:L8:18:ASP:OD2	51:L8:49:LYS:NZ	2.11	0.84
1:1G:975:A:H4'	1:1G:976:G:H5''	1.59	0.84
26:1H:2134:A:OP2	26:1H:2156:G:N2	2.11	0.84
33:51:86:GLU:HG3	33:51:87:LEU:H	1.42	0.84
46:G8:38:ILE:HD11	46:G8:64:GLU:HG3	1.59	0.84
10:1A:48:THR:HA	10:1A:62:HIS:HB3	1.60	0.84
1:1G:587:G:N2	1:1G:754:C:OP2	2.11	0.84
26:14:1899:G:H21	26:14:1902:C:N4	1.76	0.84
8:7E:7:ALA:HB2	8:7E:85:ARG:HD3	1.60	0.83
26:1H:2656:U:H3	26:1H:2665:A:H2	1.25	0.83
3:2E:58:GLU:HB2	3:2E:65:ALA:HB3	1.58	0.83
9:8E:3:GLN:OE1	9:8E:20:ARG:NH1	2.11	0.83
20:BI:71:THR:HG22	20:BI:72:LEU:H	1.40	0.83
24:3K:61:C:H1'	28:71:52:ARG:HH11	1.42	0.83
26:1H:1138:G:H21	35:58:106:MET:HE3	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:135:HIS:NE2	61:21:401:HOH:O	2.10	0.83
1:1G:353:A:H5'	1:1G:353:A:H8	1.43	0.83
8:72:12:ARG:HD3	8:72:26:VAL:HG12	1.58	0.83
46:C5:3:VAL:HG11	46:C5:32:PRO:HB2	1.60	0.83
1:13:1263:C:O2	1:13:1272:G:N2	2.11	0.83
47:H8:152:ALA:HB2	47:H8:169:GLU:H	1.43	0.83
1:1G:81:G:H1	1:1G:89:U:H3	1.26	0.83
1:1G:1221:G:H4'	19:AA:77:THR:HG21	1.59	0.83
4:32:122:ARG:NH2	4:32:134:ASP:OD2	2.10	0.83
23:2L:24:C:H2'	23:2L:25:U:C6	2.13	0.83
40:65:3:ARG:HH21	40:65:4:LEU:HB2	1.43	0.83
48:E5:72:ARG:HB3	48:E5:75:LEU:HB2	1.58	0.83
1:13:1191:A:OP2	3:2E:3:ASN:ND2	2.12	0.83
26:14:869:G:H5'	38:45:6:ARG:NH2	1.92	0.83
26:1H:2096:U:H3	26:1H:2193:G:H1	1.22	0.83
26:14:622:G:OP2	37:35:108:LYS:NZ	2.11	0.83
1:13:538:G:H5''	12:3I:114:LYS:HB2	1.59	0.83
26:14:831:G:OP1	61:14:3504:HOH:O	1.97	0.83
44:E8:88:ARG:HB3	44:E8:92:ARG:HB2	1.59	0.83
1:1G:934:C:O2'	1:1G:1344:C:OP2	1.97	0.83
1:1G:1000:A:N6	1:1G:1040:U:O4	2.11	0.83
29:11:108:PRO:HG3	29:11:143:HIS:CE1	2.14	0.83
1:13:1240:U:OP2	7:6E:116:ALA:N	2.11	0.83
7:6E:16:LEU:HD13	9:8E:44:VAL:HG22	1.61	0.83
35:58:96:GLU:O	35:58:98:VAL:N	2.12	0.83
13:4A:36:LYS:NZ	13:4A:59:TYR:OH	2.11	0.83
26:14:900:A:H2'	26:14:901:A:H8	1.43	0.83
1:1G:1192:C:OP2	3:22:4:LYS:NZ	2.12	0.83
4:32:191:ARG:HH21	4:32:194:LEU:HB2	1.43	0.83
26:14:1364:G:OP2	49:F5:2:SER:N	2.12	0.83
26:14:2156:G:N7	26:14:2157:G:N2	2.26	0.82
37:35:71:VAL:HG13	37:35:72:PRO:HD3	1.61	0.82
38:45:22:LYS:HG2	38:45:23:GLY:HA2	1.60	0.82
28:71:181:PRO:HG2	28:71:184:LYS:H	1.44	0.82
55:Q8:6:THR:HG23	55:Q8:64:TYR:HD2	1.44	0.82
9:82:17:VAL:HG11	9:82:81:ILE:HD13	1.59	0.82
41:75:125:ARG:HB2	41:75:129:ARG:HH21	1.42	0.82
1:13:894:G:OP2	61:13:1805:HOH:O	1.96	0.82
13:4I:13:LYS:O	13:4I:44:ARG:HD3	1.79	0.82
26:1H:879:G:O6	26:1H:897:C:N4	2.12	0.82
43:95:21:ARG:NH2	43:95:65:GLY:O	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:112:PRO:HB3	52:M8:36:CYS:HA	1.61	0.82
1:1G:1273:G:H3'	1:1G:1274:G:H8	1.45	0.82
26:14:71:A:H4'	26:14:72:U:H5''	1.61	0.82
26:14:1188:U:O2'	26:14:1189:A:H5'	1.79	0.82
1:13:262:A:H2'	1:13:263:A:C8	2.15	0.82
15:6I:25:THR:HB	15:6I:77:ARG:HH21	1.41	0.82
55:Q8:52:LYS:HB3	55:Q8:53:PRO:HD2	1.60	0.82
26:14:161:U:H4'	26:14:171:G:H21	1.43	0.82
26:14:2468:G:N2	26:14:2481:G:O2'	2.10	0.82
26:1H:1992:G:N7	61:1H:3532:HOH:O	2.10	0.82
1:1G:1342:C:H4'	9:82:125:TYR:HB2	1.58	0.82
3:22:18:TRP:HE1	14:5A:55:GLY:H	1.23	0.82
26:14:2127:G:H1	26:14:2161:C:H42	1.25	0.82
26:1H:1703:G:N7	61:1H:3538:HOH:O	2.12	0.82
29:11:17:THR:HG22	29:11:204:ILE:HA	1.62	0.82
38:88:66:ILE:HD12	38:88:67:ARG:H	1.44	0.82
1:1G:523:A:H61	12:3A:92:ASP:HB2	1.45	0.82
26:14:1049:C:N4	26:14:2751:G:O6	2.12	0.82
32:41:170:ARG:HH21	32:41:180:PHE:HB3	1.45	0.82
40:65:12:PHE:O	40:65:16:ASN:ND2	2.13	0.82
41:75:13:ARG:HD3	41:75:13:ARG:H	1.45	0.82
24:3K:5:C:O2	24:3K:68:G:N1	2.08	0.82
26:1H:363(B):G:H2'	26:1H:363(C):G:H8	1.44	0.82
26:1H:588:U:H2'	26:1H:589:C:C6	2.14	0.82
41:B8:6:LEU:HA	41:B8:9:LEU:HB2	1.60	0.82
1:1G:1218:C:OP2	14:5A:9:LYS:NZ	2.13	0.82
4:3E:19:LEU:HB2	4:3E:21:LEU:HD11	1.62	0.81
24:3K:4:U:H3	24:3K:69:A:H61	1.25	0.81
1:1G:1076:C:H42	1:1G:1081:G:H1	1.28	0.81
41:75:88:ILE:HD13	41:75:91:ARG:CZ	2.10	0.81
1:13:989:C:H42	1:13:1216:G:H1	1.26	0.81
26:1H:389:G:P	49:J8:25:LYS:HZ1	1.89	0.81
26:1H:2101:G:N2	26:1H:2188:C:N3	2.27	0.81
26:1H:2787:C:H1'	30:21:62:PRO:HG3	1.63	0.81
29:11:10:THR:OG1	29:11:13:ARG:HB2	1.78	0.81
51:L8:37:LEU:HD12	51:L8:43:ILE:HD13	1.63	0.81
52:M8:40:HIS:ND1	52:M8:44:THR:O	2.13	0.81
27:16:90:C:H5'	38:88:18:LYS:HA	1.62	0.81
27:1J:73:A:OP2	61:1J:301:HOH:O	1.97	0.81
42:85:50:ARG:HH12	43:95:72:VAL:HG23	1.44	0.81
28:71:21:THR:HG23	28:71:24:GLU:HB3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:D8:1:MET:SD	43:D8:43:GLU:CG	2.66	0.81
4:32:61:LYS:HB2	4:32:203:VAL:HG13	1.62	0.81
13:4A:13:LYS:HD3	13:4A:14:ARG:N	1.96	0.81
26:14:806:C:OP2	37:35:41:ARG:NH2	2.13	0.81
26:14:1154:G:OP2	42:85:58:ARG:NH1	2.14	0.81
26:14:2074:U:OP1	61:14:3506:HOH:O	1.98	0.81
29:19:244:ARG:NH2	61:19:301:HOH:O	2.14	0.81
2:1E:185:ILE:HD12	2:1E:199:TYR:HB2	1.60	0.81
7:6E:16:LEU:HD11	9:8E:42:ARG:HA	1.63	0.81
40:A8:85:VAL:CG2	40:A8:112:PHE:HZ	1.88	0.81
26:1H:1606:G:OP1	61:1H:3512:HOH:O	1.97	0.81
26:14:654(B):C:O2'	26:14:654(S):G:N1	2.12	0.81
46:C5:73:ARG:NH1	46:C5:81:LYS:O	2.14	0.81
7:62:70:LYS:HG3	7:62:96:GLN:HB3	1.63	0.81
24:3K:3:G:N2	24:3K:70:C:N3	2.28	0.81
26:1H:270(J):G:H2'	26:1H:270(K):C:H4'	1.63	0.81
52:M8:37:SER:OG	52:M8:42:PHE:O	1.99	0.81
26:14:993:G:OP1	42:85:50:ARG:NH2	2.14	0.81
26:14:2572:A:N7	30:29:144:ARG:HD2	1.96	0.81
49:F5:85:LEU:HA	49:F5:87:PRO:HD2	1.61	0.81
1:1G:377:G:H1	1:1G:386:C:H42	1.24	0.81
4:32:23:GLY:N	4:32:26:CYS:SG	2.54	0.81
26:14:570:G:O6	61:14:3505:HOH:O	1.98	0.81
32:49:145:THR:HG1	32:49:148:MET:H	1.26	0.81
34:69:3:VAL:HG12	34:69:38:LEU:HA	1.60	0.81
26:1H:2749:A:P	33:51:4:ILE:HD11	2.21	0.80
3:22:18:TRP:NE1	14:5A:55:GLY:H	1.79	0.80
26:14:977:G:N2	26:14:986:C:O2	2.11	0.80
26:14:1945:G:H2'	26:14:1946:U:C6	2.16	0.80
27:1J:28:C:H42	27:1J:56:G:H1	1.30	0.80
19:AI:40:ILE:HD11	19:AI:62:ILE:HD13	1.63	0.80
26:1H:1021:A:H62	26:1H:1141:U:H3	1.24	0.80
9:82:81:ILE:HG22	9:82:85:LEU:HD23	1.64	0.80
26:14:2572:A:C8	30:29:144:ARG:CD	2.58	0.80
1:13:362:G:H4'	12:3I:33:ARG:HH21	1.45	0.80
1:1G:474:G:H2'	1:1G:475:G:C8	2.15	0.80
39:55:74:LYS:HE2	39:55:74:LYS:H	1.45	0.80
1:13:1178:G:OP2	9:8E:93:ARG:NH2	2.13	0.80
26:1H:674:G:C1'	31:31:74:ARG:HD3	2.12	0.80
1:1G:80:G:N1	1:1G:89:U:O2	2.12	0.80
3:22:29:TYR:HE1	3:22:33:LEU:CG	1.94	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:59:60:ARG:O	33:59:63:SER:OG	1.99	0.80
24:3K:34:U:O2'	24:3K:35:U:O5'	2.00	0.80
26:1H:270(H):C:N3	26:1H:270(R):G:N2	2.29	0.80
26:14:1250:G:OP2	37:35:21:ARG:NH1	2.14	0.80
1:13:8:A:N7	4:3E:208:SER:OG	2.14	0.80
10:1I:49:VAL:HG23	14:5I:41:ARG:HB2	1.63	0.80
26:1H:517:C:OP1	53:N8:16:ARG:NH2	2.13	0.80
26:1H:2469:A:O2'	38:88:56:ARG:HG2	1.82	0.80
32:41:66:GLN:HA	52:M8:6:HIS:CE1	2.16	0.80
32:49:106:LEU:CD1	32:49:111:LEU:HG	2.11	0.80
36:25:2:ILE:HD12	36:25:6:THR:HG21	1.64	0.80
40:65:107:GLU:H	40:65:110:LEU:HD21	1.43	0.80
1:13:982:U:H5''	14:5I:6:LEU:HD11	1.64	0.80
11:2I:85:ARG:HG2	11:2I:112:THR:H	1.45	0.80
26:1H:907:U:O2'	38:88:101:ARG:NH2	2.14	0.80
34:61:68:LEU:HA	34:61:71:ILE:HG22	1.62	0.80
35:58:12:ARG:HG2	35:58:13:TRP:H	1.46	0.80
3:22:90:GLU:HA	3:22:93:LYS:HD3	1.63	0.80
29:19:39:LYS:O	29:19:40:THR:HG23	1.80	0.80
33:59:54:ARG:HB3	33:59:65:HIS:HB2	1.64	0.80
38:45:32:TYR:OH	38:45:111:GLU:OE1	2.00	0.80
50:G5:47:ASN:O	50:G5:49:LYS:N	2.15	0.80
1:13:1133:G:N2	1:13:1141:C:O2	2.11	0.80
26:1H:945:A:N3	61:1H:3544:HOH:O	2.14	0.80
27:1J:18:G:N2	27:1J:65:C:N3	2.29	0.80
1:13:186(B):C:O2	1:13:191(E):G:N2	2.13	0.80
26:1H:1278:A:OP1	39:98:36:THR:HG22	1.82	0.80
35:58:48:MET:HE2	35:58:48:MET:C	2.07	0.80
26:14:1012:U:OP1	42:85:70:ARG:NH2	2.15	0.80
26:14:1632:A:N7	61:14:3531:HOH:O	2.15	0.80
29:19:83:GLU:OE1	29:19:104:TYR:OH	1.98	0.80
30:29:68:ALA:C	30:29:70:ALA:H	1.90	0.80
8:7E:102:ARG:H	8:7E:102:ARG:HD3	1.47	0.80
41:B8:3:ARG:O	41:B8:7:ILE:N	2.13	0.80
26:14:1327:C:OP2	61:14:3507:HOH:O	1.99	0.80
27:1J:42:C:O2'	32:49:67:LYS:O	2.00	0.80
45:B5:1:MET:N	45:B5:6:ASP:OD2	2.15	0.80
1:13:1454:G:H4'	20:BI:36:LEU:HD21	1.62	0.79
2:1E:189:ASP:CB	2:1E:205:ASP:OD1	2.30	0.79
26:14:2075:U:P	29:19:244:ARG:HH21	2.03	0.79
29:19:43:ARG:HG2	29:19:49:ILE:HA	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:737:A:H2'	1:13:738:C:C6	2.16	0.79
13:4A:96:LEU:HD22	13:4A:97:PRO:HD2	1.64	0.79
26:14:569:U:OP2	61:14:3508:HOH:O	1.99	0.79
26:1H:1437:C:HO2'	26:1H:1518:C:HO2'	1.26	0.79
36:68:98:VAL:HG11	36:68:114:ILE:HG23	1.65	0.79
46:G8:94:LYS:NZ	46:G8:95:LYS:H	1.80	0.79
1:13:474:G:H2'	1:13:475:G:H8	1.48	0.79
9:8E:10:ARG:CD	9:8E:11:LYS:HG3	2.12	0.79
26:14:938:G:OP2	55:M5:52:LYS:NZ	2.14	0.79
26:14:2293:C:N4	26:14:2339:G:O6	2.16	0.79
34:69:59:ALA:HA	34:69:62:LYS:HB3	1.63	0.79
10:1I:40:LEU:HB2	10:1I:69:ASN:HB2	1.64	0.79
55:Q8:52:LYS:HB3	55:Q8:53:PRO:CD	2.11	0.79
1:1G:1263:C:N4	1:1G:1272:G:O6	2.12	0.79
3:22:29:TYR:CD1	3:22:33:LEU:HB2	2.16	0.79
12:3A:20:LYS:HE3	12:3A:21:LYS:C	2.07	0.79
26:14:1456:G:OP2	61:14:3509:HOH:O	2.00	0.79
26:1H:2857:G:N2	26:1H:2860:A:OP2	2.13	0.79
35:58:42:TRP:O	42:C8:64:ARG:NH2	2.15	0.79
2:12:71:VAL:HG11	2:12:164:VAL:HA	1.65	0.79
26:14:751:A:H5'	44:A5:90:ARG:HA	1.65	0.79
37:35:13:ASN:C	37:35:15:ARG:H	1.90	0.79
49:F5:91:LYS:HZ1	49:F5:95:LEU:HD22	1.43	0.79
13:4I:9:ILE:HD12	32:41:146:TYR:HD2	1.48	0.79
26:1H:2303:G:O2'	32:41:132:ASN:OD1	1.99	0.79
26:14:1942:C:OP2	26:14:1943:U:O2'	2.01	0.79
26:14:2075:U:P	29:19:244:ARG:NH2	2.54	0.79
35:58:56:ASN:N	35:58:125:GLY:O	2.13	0.79
1:1G:1128:C:H5''	9:82:16:ARG:HH22	1.46	0.79
1:1G:1316:G:H5''	14:5A:17:LYS:NZ	1.97	0.79
26:14:2773:C:H2'	26:14:2774:C:H6	1.47	0.79
29:19:255:LYS:H	29:19:255:LYS:HD3	1.48	0.79
47:D5:45:ASP:OD1	47:D5:49:ARG:NH2	2.14	0.79
50:G5:42:GLY:HA2	50:G5:43:GLN:OE1	1.83	0.79
29:11:71:ASP:OD1	29:11:103:ARG:NH2	2.16	0.79
48:I8:23:VAL:HG13	48:I8:38:VAL:HG22	1.64	0.79
26:14:2377:A:H4'	40:65:111:GLU:HG2	1.65	0.79
4:3E:15:GLU:OE1	4:3E:66:ARG:NH1	2.16	0.79
26:1H:86:C:H4'	26:1H:104:U:H1'	1.65	0.79
26:1H:135:G:N1	26:1H:144:C:N3	2.30	0.79
26:1H:287:C:H2'	26:1H:288:C:H6	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:11:182:LEU:H	29:11:272:ALA:HB3	1.48	0.79
31:31:134:GLY:H	31:31:162:LEU:HB3	1.48	0.79
26:14:847:U:OP2	61:14:3510:HOH:O	2.01	0.79
37:35:37:GLY:HA2	37:35:41:ARG:NH2	1.98	0.79
1:1G:1243:C:OP2	21:1B:10:ARG:NH2	2.16	0.78
2:1E:115:LEU:HD11	2:1E:146:GLN:HG3	1.65	0.78
44:E8:79:GLY:HA3	44:E8:100:THR:CG2	2.14	0.78
2:12:50:GLU:HG3	2:12:201:ILE:HG12	1.64	0.78
27:1J:27:C:H2'	27:1J:28:C:H5'	1.66	0.78
7:6E:15:ASP:HB3	7:6E:20:ASP:H	1.47	0.78
9:8E:10:ARG:HD3	9:8E:11:LYS:HG3	1.63	0.78
26:1H:1441:G:H2'	26:1H:1442:G:H8	1.49	0.78
1:1G:1116:C:H42	1:1G:1184:G:H1	1.27	0.78
14:5A:14:PRO:HB2	14:5A:15:LYS:HG3	1.66	0.78
57:3L:29:U:O4	57:3L:41:A:N6	2.16	0.78
26:14:2636:U:O2'	30:29:44:TYR:OH	1.99	0.78
41:75:126:ALA:HA	41:75:129:ARG:HD2	1.66	0.78
50:G5:22:GLU:HG2	50:G5:64:LEU:HD11	1.63	0.78
26:1H:2059:A:OP2	61:1H:3513:HOH:O	2.01	0.78
26:14:1592:C:H2'	26:14:1593:G:C8	2.19	0.78
4:3E:72:GLU:OE1	4:3E:207:TYR:OH	2.01	0.78
7:6E:113:GLU:HB2	7:6E:119:ARG:HG2	1.66	0.78
1:1G:362:G:H4'	12:3A:33:ARG:HH21	1.48	0.78
1:1G:664:G:H22	1:1G:741:G:H1	1.30	0.78
27:1J:80:U:O2	27:1J:96:G:N1	2.13	0.78
35:15:104:LYS:HA	35:15:107:LEU:HD12	1.65	0.78
24:3K:33:U:H2'	24:3K:34:U:H3'	1.66	0.78
26:1H:2287:A:N6	26:1H:2344:U:H3	1.81	0.78
33:51:8:PRO:HG2	33:51:69:ARG:HH21	1.47	0.78
8:72:69:ARG:NH1	8:72:75:ARG:O	2.17	0.78
16:7A:1:MET:O	16:7A:24:ALA:N	2.17	0.78
18:9A:84:LYS:H	18:9A:84:LYS:HD3	1.47	0.78
26:14:2287:A:N6	26:14:2344:U:H3	1.80	0.78
32:49:15:VAL:HG13	32:49:175:LEU:HB3	1.65	0.78
1:13:1455:G:OP1	20:BI:35:THR:OG1	2.01	0.78
26:1H:259:G:O2'	26:1H:621:A:O2'	2.01	0.78
30:21:116:VAL:HG11	30:21:138:PRO:HB3	1.66	0.78
42:C8:84:LYS:C	42:C8:84:LYS:HD3	2.09	0.78
1:1G:1209:C:O2'	1:1G:1214:C:N4	2.13	0.78
1:13:1329:A:H5'	13:4I:29:ARG:HD2	1.66	0.78
43:D8:35:LEU:HB2	43:D8:57:VAL:HG13	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4A:80:ARG:HH21	19:AA:65:ASN:HD22	1.32	0.78
42:85:66:ASN:HB2	42:85:76:TYR:HB2	1.65	0.78
54:L5:29:LYS:HA	54:L5:32:LYS:HB3	1.65	0.78
1:13:316:G:OP2	1:13:351:G:O2'	2.02	0.78
9:8E:17:VAL:HA	9:8E:63:ILE:HG12	1.66	0.78
13:4I:19:LEU:HD13	13:4I:22:ILE:HD13	1.65	0.78
26:1H:1170:G:N2	26:1H:1180:C:N3	2.32	0.78
32:41:67:LYS:H	32:41:67:LYS:HD3	1.48	0.78
1:1G:588:G:H1	1:1G:651:C:H42	1.32	0.78
8:72:123:GLU:OE2	8:72:123:GLU:N	2.13	0.78
26:14:625:G:N7	37:35:107:LYS:NZ	2.32	0.78
26:1H:1334:G:N7	61:1H:3548:HOH:O	2.17	0.78
26:1H:2701:C:H3'	26:1H:2702:U:H5'	1.66	0.78
37:78:63:PRO:HB2	55:Q8:30:ARG:HH21	1.49	0.78
8:72:99:GLU:HG2	8:72:100:ILE:H	1.47	0.78
26:14:848:G:H2'	26:14:849:A:C8	2.18	0.78
26:14:2130:U:O2'	26:14:2158:A:N1	2.15	0.78
1:13:989:C:N3	1:13:1216:G:N2	2.30	0.77
26:1H:1479:G:N7	26:1H:1510:A:N6	2.32	0.77
26:1H:1728:G:H8	26:1H:1732:A:H62	1.30	0.77
4:32:163:GLU:HA	4:32:166:LYS:HD2	1.65	0.77
13:4A:79:LYS:O	13:4A:82:MET:HG2	1.85	0.77
26:14:1443:G:H1	26:14:1548:C:H42	1.32	0.77
1:13:1213:A:O2'	1:13:1215:G:N7	2.15	0.77
16:7I:4:ILE:HB	16:7I:66:PRO:HB3	1.66	0.77
24:3K:17:U:H3	26:1H:2112:G:N2	1.82	0.77
46:G8:61:ILE:CG2	46:G8:63:LYS:HD3	2.14	0.77
53:N8:40:LYS:HG2	53:N8:46:CYS:HA	1.66	0.77
1:1G:278:G:N7	17:8A:92:ARG:NH2	2.31	0.77
1:1G:1423:G:H2'	1:1G:1424:C:H6	1.49	0.77
3:22:70:VAL:HG12	3:22:72:LYS:H	1.48	0.77
40:65:106:ARG:O	40:65:106:ARG:HD2	1.84	0.77
26:1H:49:A:N7	26:1H:120:U:H5	1.81	0.77
26:1H:2327:A:H2'	26:1H:2328:A:C8	2.18	0.77
34:61:8:PRO:HA	34:61:14:ASP:HA	1.65	0.77
52:M8:18:CYS:SG	52:M8:39:CYS:HB2	2.23	0.77
2:1E:11:LEU:HB3	2:1E:213:LEU:HD13	1.66	0.77
26:1H:2791:C:H2'	26:1H:2792:G:H5'	1.65	0.77
27:16:42:C:O3'	32:41:67:LYS:HE2	1.84	0.77
31:31:66:PRO:O	31:31:67:GLN:HB3	1.83	0.77
1:1G:1435:G:H2'	1:1G:1436:U:C6	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1218:C:H42	26:14:1231:G:H1	1.29	0.77
47:D5:30:ASN:HA	47:D5:89:PHE:HE1	1.48	0.77
16:7I:8:ARG:NH1	16:7I:15:PRO:HA	2.00	0.77
26:1H:760:G:OP2	61:1H:3514:HOH:O	2.02	0.77
34:61:129:THR:HG22	34:61:137:PRO:HB3	1.66	0.77
2:12:91:PRO:HG3	2:12:154:LEU:HB2	1.66	0.77
19:AA:66:MET:SD	19:AA:69:HIS:NE2	2.57	0.77
42:C8:79:PHE:CE1	42:C8:83:LEU:HD22	2.20	0.77
3:22:18:TRP:HE1	14:5A:55:GLY:N	1.82	0.77
3:22:130:VAL:HG13	3:22:134:ILE:CG1	2.13	0.77
36:25:115:VAL:HG13	36:25:121:VAL:HG21	1.66	0.77
43:95:76:LYS:HZ2	43:95:82:ARG:HE	1.32	0.77
26:1H:662:G:H4'	37:78:15:ARG:HA	1.65	0.77
41:B8:24:PRO:HD3	41:B8:52:ILE:HD12	1.67	0.77
44:E8:79:GLY:N	44:E8:100:THR:O	2.16	0.77
1:1G:1453:G:O2'	20:BA:39:LYS:NZ	2.13	0.77
1:1G:920:U:H2'	1:1G:921:U:C6	2.20	0.77
20:BA:49:ALA:HA	20:BA:52:ALA:HB3	1.66	0.77
26:14:1057:A:N7	26:14:1086:A:O2'	2.18	0.77
37:35:146:VAL:HG22	37:35:147:LEU:HG	1.66	0.77
34:61:38:LEU:HD13	34:61:40:THR:HG23	1.67	0.77
32:49:106:LEU:HD11	32:49:111:LEU:HG	1.65	0.77
2:1E:219:VAL:HA	2:1E:222:ILE:HD12	1.67	0.77
15:6I:39:LEU:HB3	15:6I:56:LEU:HD12	1.66	0.77
57:3L:70:C:H2'	57:3L:71:C:H5'	1.67	0.77
26:14:259:G:H21	26:14:621:A:H8	1.33	0.77
26:14:1141:U:H2'	35:15:63:THR:HG21	1.67	0.77
30:29:1:MET:HG3	30:29:200:GLU:OE2	1.85	0.77
2:1E:166:ASP:HB3	2:1E:169:LYS:HB2	1.65	0.76
7:6E:122:HIS:HA	7:6E:125:MET:HE2	1.65	0.76
26:1H:2308:G:N1	26:1H:2311:A:H2	1.83	0.76
30:21:116:VAL:HG23	30:21:120:TRP:HD1	1.50	0.76
26:14:125:G:H5''	54:L5:19:ARG:HD3	1.67	0.76
26:14:2207:C:H42	26:14:2217:G:H1	1.28	0.76
30:29:25:VAL:HG12	30:29:26:ILE:N	1.98	0.76
55:M5:34:TRP:HB3	55:M5:35:GLN:OE1	1.85	0.76
6:5E:27:GLN:HA	6:5E:30:LEU:HD12	1.66	0.76
26:1H:452:G:OP2	61:1H:3517:HOH:O	2.03	0.76
26:1H:1568:G:OP1	29:11:63:ARG:NH1	2.17	0.76
4:32:201:GLN:HA	4:32:204:ILE:HG22	1.67	0.76
17:8A:66:SER:O	17:8A:70:ARG:NH1	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:662:G:H5'	37:35:15:ARG:HA	1.66	0.76
26:14:770:G:OP2	61:14:3512:HOH:O	2.03	0.76
26:14:2110:G:C2	26:14:2120:G:H1'	2.20	0.76
37:35:85:LEU:HA	37:35:88:LEU:HB3	1.67	0.76
41:75:51:ARG:HG2	41:75:98:LYS:HE3	1.65	0.76
1:13:160:A:N6	1:13:343:U:O2'	2.18	0.76
3:2E:101:LEU:HD23	3:2E:102:ASN:N	2.00	0.76
5:4E:39:GLY:HA2	5:4E:113:ALA:HB1	1.66	0.76
26:1H:2404:C:OP2	61:1H:3516:HOH:O	2.02	0.76
44:E8:78:GLU:OE2	44:E8:99:ARG:HD3	1.84	0.76
1:1G:1095:U:OP1	1:1G:1108:G:N2	2.17	0.76
1:1G:1347:G:O2'	1:1G:1373:G:O6	2.01	0.76
32:49:161:THR:HG22	32:49:163:ALA:H	1.50	0.76
41:75:26:ASP:OD1	41:75:120:ARG:NH2	2.18	0.76
1:1G:447:G:H21	1:1G:487:A:H62	1.34	0.76
1:1G:1001:G:O6	1:1G:1038:C:N4	2.15	0.76
43:D8:21:ARG:HG2	43:D8:91:TYR:HE2	1.51	0.76
49:J8:93:GLU:OE2	49:J8:94:LEU:HB2	1.85	0.76
1:1G:1016:A:H1'	1:1G:1218:C:H1'	1.66	0.76
4:3E:157:LEU:HD12	4:3E:161:ASN:HD21	1.51	0.76
5:4E:73:ASN:O	5:4E:73:ASN:ND2	2.18	0.76
26:1H:2302:G:N2	26:1H:2314:C:O2	2.17	0.76
1:1G:292:G:OP2	1:1G:305:G:N2	2.14	0.76
1:1G:407:G:OP1	4:32:115:ARG:NH2	2.13	0.76
26:14:1198:U:H2'	26:14:1199:U:C6	2.21	0.76
26:14:2141:G:H1	26:14:2150:U:H3	1.33	0.76
1:13:1009:G:O6	1:13:1020:U:N3	2.15	0.76
26:1H:298:G:N7	46:G8:84:ARG:NH1	2.33	0.76
31:31:129:PHE:HA	31:31:142:TRP:NE1	2.01	0.76
29:19:246:PRO:CD	29:19:255:LYS:HE3	2.16	0.76
31:39:25:PRO:HB3	31:39:28:ILE:HG23	1.68	0.76
26:1H:2787:C:O3'	30:21:61:ARG:NH1	2.18	0.76
37:78:47:ASP:OD2	37:78:50:ARG:NH2	2.19	0.76
1:1G:490:G:OP2	4:32:132:ARG:NH2	2.19	0.76
1:1G:1116:C:H2'	1:1G:1117:G:C8	2.21	0.76
1:1G:1256:A:N6	1:1G:1278:U:OP2	2.17	0.76
49:F5:92:LYS:CD	49:F5:93:GLU:H	1.92	0.76
26:1H:2334:G:O6	48:I8:74:ARG:NH2	2.19	0.76
43:D8:47:VAL:HG13	43:D8:48:GLY:H	1.51	0.76
17:8I:66:SER:O	17:8I:70:ARG:NH1	2.19	0.76
33:51:40:GLU:N	33:51:40:GLU:OE2	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:98:LEU:HD23	33:51:125:VAL:HG23	1.68	0.76
1:1G:1069:C:O2'	5:42:25:ARG:NH2	2.18	0.76
26:14:95:G:H4'	50:G5:46:GLN:HB2	1.68	0.76
1:13:452:A:N6	1:13:480:U:O2	2.19	0.75
24:3K:44:U:H3'	24:3K:45:G:H4'	1.68	0.75
26:1H:176:G:O2'	26:1H:177:G:H5'	1.87	0.75
26:1H:1871:A:H2'	26:1H:1872:A:C8	2.21	0.75
1:1G:1218:C:OP1	14:5A:12:ARG:NH2	2.19	0.75
3:22:73:PRO:O	3:22:76:VAL:HG22	1.86	0.75
9:8E:17:VAL:HG21	9:8E:80:GLY:HA3	1.66	0.75
29:11:30:GLU:OE1	29:11:63:ARG:NE	2.14	0.75
1:1G:1025:U:O2'	1:1G:1026:G:N7	2.19	0.75
26:14:517:C:OP1	53:J5:16:ARG:NH2	2.19	0.75
26:14:2392:A:H2	26:14:2424:C:H42	1.31	0.75
27:1J:21:G:H2'	27:1J:22:U:O4'	1.86	0.75
34:69:123:LEU:HD21	34:69:143:SER:HB3	1.68	0.75
43:95:35:LEU:HB2	43:95:37:VAL:HG13	1.67	0.75
47:D5:30:ASN:HA	47:D5:89:PHE:CE1	2.20	0.75
3:2E:150:LYS:HE2	3:2E:152:ILE:HD11	1.68	0.75
31:31:33:LEU:HD13	31:31:112:MET:HE2	1.68	0.75
6:52:11:ASN:O	6:52:14:LEU:HD22	1.86	0.75
12:3A:100:ILE:HG22	12:3A:101:VAL:H	1.50	0.75
32:49:111:LEU:CD2	32:49:140:ILE:CD1	2.46	0.75
34:69:65:ALA:O	34:69:69:LYS:N	2.19	0.75
41:75:108:ARG:HA	41:75:111:ARG:HG3	1.67	0.75
1:13:652:U:O4	1:13:752:G:O2'	2.03	0.75
5:4E:145:LYS:HA	5:4E:148:VAL:HB	1.67	0.75
1:1G:243:A:H4'	1:1G:244:U:H5''	1.67	0.75
1:1G:1071:C:H2'	1:1G:1072:G:H8	1.51	0.75
5:42:33:VAL:HG21	5:42:109:ILE:HG12	1.69	0.75
26:14:675:A:O2'	31:39:67:GLN:NE2	2.20	0.75
30:29:169:ASN:HA	30:29:201:THR:HG21	1.65	0.75
48:E5:32:ARG:O	48:E5:34:GLY:N	2.15	0.75
1:13:474:G:H2'	1:13:475:G:C8	2.22	0.75
16:7I:8:ARG:NH1	16:7I:15:PRO:CB	2.50	0.75
26:1H:1016:G:O6	61:1H:3515:HOH:O	2.02	0.75
46:G8:97:ARG:NH2	46:G8:103:GLY:O	2.20	0.75
1:1G:620:C:C2	4:32:135:LEU:HG	2.21	0.75
17:8A:87:LYS:O	17:8A:91:ARG:HD2	1.85	0.75
18:9A:22:VAL:HG22	18:9A:23:LYS:H	1.52	0.75
27:1J:11:C:OP2	27:1J:12:C:N4	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1021:A:H8	26:1H:1021:A:H3'	1.50	0.75
28:71:30:LYS:NZ	28:71:178:ALA:O	2.19	0.75
35:58:12:ARG:HG2	35:58:13:TRP:N	2.01	0.75
45:F8:36:LYS:HG2	45:F8:54:VAL:HG23	1.67	0.75
1:1G:607:A:H2'	1:1G:608:A:O4'	1.85	0.75
26:14:1141:U:H2'	35:15:63:THR:CG2	2.16	0.75
26:14:1678:G:H22	26:14:1989:G:H22	1.34	0.75
30:29:12:THR:O	30:29:23:VAL:HG22	1.87	0.75
34:69:102:SER:O	34:69:106:GLY:N	2.19	0.75
26:1H:1016:G:N7	61:1H:3550:HOH:O	2.18	0.75
26:1H:2636:U:OP1	30:21:79:ARG:HA	1.86	0.75
26:1H:2698:U:N3	26:1H:2709:G:O6	2.17	0.75
28:71:22:ILE:HD13	28:71:189:ILE:HG22	1.68	0.75
29:11:38:LYS:HD2	29:11:38:LYS:C	2.09	0.75
57:3L:19:G:N3	57:3L:57:G:N2	2.35	0.75
26:14:863:A:H2'	26:14:864:G:C8	2.22	0.75
29:19:244:ARG:HB2	29:19:245:PRO:HD2	1.68	0.75
26:1H:587:C:N3	37:78:33:ARG:NH1	2.35	0.75
26:14:1443:G:N2	26:14:1548:C:N3	2.34	0.75
26:14:2250:G:C4	38:45:82:ARG:HG3	2.21	0.75
29:19:95:LEU:HD11	29:19:105:ILE:HD12	1.69	0.75
48:E5:12:ASN:HA	48:E5:14:ARG:HH21	1.52	0.75
13:4I:12:ASN:HD22	13:4I:13:LYS:H	1.35	0.75
26:1H:547:A:H2	26:1H:548:A:H62	1.34	0.75
26:1H:1285:G:N2	26:1H:1329:U:OP1	2.17	0.75
26:14:1055:G:N2	26:14:1086:A:OP1	2.19	0.75
33:59:66:GLY:O	33:59:70:THR:OG1	2.03	0.75
43:95:2:PHE:HE1	43:95:13:ARG:HG3	1.50	0.75
5:4E:76:ILE:HG13	5:4E:93:PRO:HG3	1.69	0.74
13:4I:4:ILE:HG22	13:4I:5:ALA:H	1.52	0.74
26:1H:142:G:H1'	45:F8:37:THR:HG21	1.69	0.74
26:1H:974(A):C:OP1	61:1H:3521:HOH:O	2.04	0.74
26:1H:2154:G:N2	26:1H:2155:G:O6	2.20	0.74
26:1H:2849:U:H4'	26:1H:2868:A:C2	2.21	0.74
41:B8:21:GLU:OE1	41:B8:91:ARG:NH2	2.20	0.74
4:32:150:GLU:C	4:32:152:SER:H	1.95	0.74
26:14:469:G:OP2	61:14:3513:HOH:O	2.04	0.74
50:G5:23:LYS:NZ	50:G5:27:GLU:OE2	2.20	0.74
1:13:5:U:OP1	1:13:5:U:H4'	1.82	0.74
45:F8:47:PHE:O	45:F8:49:VAL:HG23	1.87	0.74
1:1G:539:A:H2'	1:1G:540:G:C8	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:18:GLY:O	2:12:19:HIS:ND1	2.17	0.74
8:72:51:VAL:HG11	8:72:60:ARG:HB2	1.68	0.74
26:14:2768:C:O2'	35:15:89:LYS:NZ	2.20	0.74
41:75:125:ARG:HB2	41:75:129:ARG:NH2	2.01	0.74
3:2E:62:ASP:O	3:2E:98:ASN:ND2	2.16	0.74
4:3E:29:PRO:HA	4:3E:34:GLU:HG3	1.68	0.74
4:3E:64:LEU:HD22	4:3E:198:VAL:HG11	1.70	0.74
26:1H:1430:C:H2'	26:1H:1431:U:C6	2.23	0.74
30:21:26:ILE:HG23	30:21:182:LEU:HB3	1.69	0.74
32:41:96:ARG:H	32:41:99:MET:HE2	1.52	0.74
37:78:97:PRO:HA	37:78:100:LEU:HB2	1.69	0.74
26:14:918:A:O2'	27:1J:96:G:N2	2.20	0.74
26:14:1019:U:H2'	26:14:1020:A:C8	2.23	0.74
26:14:1171:G:O2'	26:14:1173:G:O4'	2.04	0.74
26:14:2260:C:OP1	61:14:3514:HOH:O	2.04	0.74
12:3I:60:LEU:HD13	12:3I:61:THR:N	2.02	0.74
46:G8:28:LYS:NZ	46:G8:40:GLU:HG3	2.03	0.74
1:1G:750:G:N2	15:6A:23:GLY:O	2.17	0.74
12:3A:41:ARG:HG2	12:3A:42:THR:H	1.52	0.74
43:95:22:VAL:HG22	43:95:23:GLU:H	1.52	0.74
9:8E:5:TYR:O	9:8E:87:GLN:NE2	2.19	0.74
26:1H:760:G:OP1	61:1H:3520:HOH:O	2.04	0.74
26:1H:1536:A:H3'	26:1H:1537:C:H6	1.53	0.74
26:1H:2129:C:N4	26:1H:2161:C:O2'	2.21	0.74
26:14:152:G:O6	26:14:174:C:N4	2.13	0.74
26:14:2173:A:O2'	26:14:2174:C:OP1	2.05	0.74
1:13:1125:U:OP2	1:13:1145:C:N4	2.20	0.74
6:5E:39:LYS:HD3	6:5E:64:GLN:HG3	1.70	0.74
19:AI:5:LEU:HD13	19:AI:10:PHE:HD1	1.50	0.74
26:1H:1649:G:O2'	39:98:107:ASP:OD2	2.04	0.74
26:1H:2315:G:OP1	32:41:36:LYS:NZ	2.21	0.74
26:1H:2359:C:H5''	55:Q8:52:LYS:HD2	1.67	0.74
38:88:139:GLU:N	38:88:139:GLU:OE2	2.20	0.74
42:C8:92:ARG:NH1	43:D8:11:GLN:O	2.21	0.74
23:2L:24:C:H2'	23:2L:25:U:H6	1.51	0.74
31:39:110:LEU:HD21	31:39:181:LEU:HD12	1.67	0.74
1:13:353:A:H8	1:13:353:A:H5'	1.53	0.74
53:N8:41:PRO:O	53:N8:44:THR:OG1	2.03	0.74
1:1G:128:G:H4'	17:8A:3:LYS:HG2	1.69	0.74
1:1G:539:A:OP2	12:3A:115:LYS:NZ	2.16	0.74
26:14:631:A:OP2	55:M5:47:LYS:NZ	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1210:A:H5''	26:14:1211:U:H3'	1.69	0.74
26:1H:1021:A:H3'	26:1H:1021:A:C8	2.23	0.74
26:1H:2683:C:OP1	41:B8:53:ARG:NH2	2.20	0.74
31:31:167:ALA:HB1	31:31:173:VAL:HG11	1.69	0.74
2:12:166:ASP:HB3	2:12:169:LYS:HB2	1.70	0.74
37:35:75:ILE:HD12	37:35:77:ARG:NH2	2.03	0.74
7:6E:79:ARG:HA	7:6E:84:ASN:HA	1.68	0.74
39:98:67:LEU:HD22	39:98:76:VAL:HG21	1.70	0.74
4:32:145:GLU:HG3	4:32:184:LYS:HG2	1.70	0.74
26:14:1310:G:H1	26:14:1604:C:H42	1.34	0.74
40:65:28:VAL:HG11	40:65:98:VAL:HG12	1.70	0.74
1:13:1081:G:H2'	1:13:1082:G:H8	1.53	0.73
11:2I:22:HIS:HB3	11:2I:29:ILE:HG23	1.68	0.73
20:BI:10:LEU:HD21	20:BI:12:ALA:HB3	1.68	0.73
26:1H:543:C:H42	26:1H:550:G:H1	1.36	0.73
26:1H:2452:C:OP1	61:1H:3519:HOH:O	2.04	0.73
35:58:97:ARG:H	35:58:100:GLU:HG3	1.53	0.73
1:1G:408:A:H2'	1:1G:409:G:O4'	1.88	0.73
14:5A:12:ARG:HG3	14:5A:14:PRO:HD3	1.70	0.73
26:14:528:A:C2	26:14:2042:A:H2'	2.23	0.73
26:14:780:G:H21	26:14:783:A:H62	1.36	0.73
26:14:2404:C:OP2	61:14:3515:HOH:O	2.06	0.73
1:13:1442:G:H2'	1:13:1443:G:H5'	1.69	0.73
19:AI:64:GLU:O	19:AI:67:VAL:HG13	1.88	0.73
26:1H:1169:G:H1	26:1H:1180:C:H42	1.34	0.73
26:1H:2053:G:OP2	61:1H:3523:HOH:O	2.05	0.73
33:51:8:PRO:HG2	33:51:69:ARG:NH2	2.03	0.73
38:88:17:LEU:HB3	38:88:39:PRO:HB2	1.70	0.73
26:14:1784:A:H4'	26:14:1785:A:O5'	1.86	0.73
26:14:2292:C:OP1	40:65:17:ARG:NH2	2.21	0.73
42:85:92:ARG:C	42:85:94:ASN:H	1.96	0.73
8:7E:87:SER:HB2	8:7E:93:VAL:HB	1.69	0.73
12:3I:117:ARG:HB3	12:3I:122:THR:HB	1.71	0.73
26:1H:2502:G:OP2	61:1H:3518:HOH:O	2.04	0.73
27:16:15:A:H1'	27:16:109:G:C8	2.23	0.73
30:21:103:ASP:OD1	30:21:201:THR:HG22	1.87	0.73
26:14:848:G:C4	26:14:933:A:H8	2.06	0.73
26:14:2387:U:H1'	48:E5:41:ARG:HE	1.54	0.73
29:19:37:LEU:O	29:19:37:LEU:HD12	1.88	0.73
1:13:468:A:H4'	16:7I:80:PHE:HB2	1.68	0.73
6:5E:82:ARG:HB2	6:5E:85:VAL:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:275:G:N2	26:1H:276:A:N7	2.35	0.73
35:58:39:ARG:NH2	35:58:41:ASP:OD2	2.21	0.73
43:D8:24:LYS:HA	43:D8:92:THR:HG23	1.68	0.73
1:1G:330:C:O2	61:1G:1702:HOH:O	2.07	0.73
1:1G:1266:G:N2	1:1G:1270:C:N3	2.36	0.73
26:14:848:G:OP2	26:14:929:G:N2	2.17	0.73
26:14:1689:A:H62	26:14:1698:A:H2	1.37	0.73
2:1E:86:GLU:C	2:1E:86:GLU:OE1	2.31	0.73
29:11:65:ILE:HD11	29:11:67:PHE:CZ	2.23	0.73
47:H8:165:VAL:HB	47:H8:166:SER:HA	1.70	0.73
1:1G:1133:G:N2	1:1G:1141:C:O2	2.21	0.73
4:32:107:ARG:HH22	4:32:196:LEU:HD11	1.54	0.73
26:14:1005:C:O2'	35:15:28:THR:HG23	1.89	0.73
26:14:1187:G:H8	26:14:1187:G:O5'	1.69	0.73
40:65:62:LYS:O	40:65:66:ALA:N	2.16	0.73
43:95:2:PHE:CD2	43:95:42:GLY:HA2	2.20	0.73
1:13:352:C:O2'	1:13:354:G:OP1	2.07	0.73
3:2E:88:ARG:HA	3:2E:91:LEU:HD12	1.71	0.73
7:6E:78:ARG:NH2	7:6E:154:TYR:O	2.22	0.73
24:3K:76:A:H8	26:1H:2394:C:H42	1.34	0.73
26:1H:2176:A:O2'	28:71:44:HIS:NE2	2.20	0.73
47:H8:165:VAL:HB	47:H8:167:PRO:HD3	1.70	0.73
4:32:60:GLU:OE2	4:32:199:ASN:N	2.21	0.73
26:14:176:G:O2'	26:14:177:G:H5'	1.88	0.73
26:14:1167:U:O2	26:14:1183:G:N2	2.22	0.73
42:85:28:ARG:NH1	42:85:38:THR:OG1	2.21	0.73
45:B5:15:GLU:CD	45:B5:15:GLU:H	1.97	0.73
30:21:105:THR:HG1	30:21:199:ARG:HH21	1.32	0.73
40:A8:66:ALA:HA	40:A8:69:VAL:HG12	1.70	0.73
1:1G:371:G:O2'	1:1G:373:A:N7	2.22	0.73
1:1G:1291:G:O3'	9:82:39:GLY:HA3	1.89	0.73
26:14:1560:G:OP1	61:14:3516:HOH:O	2.07	0.73
20:BI:63:ILE:HD12	20:BI:81:LYS:HG3	1.70	0.73
26:1H:588:U:H2'	26:1H:589:C:H6	1.52	0.73
26:1H:848:G:H2'	26:1H:849:A:C8	2.24	0.73
26:1H:1045:A:O2'	26:1H:1047:G:N7	2.22	0.73
26:1H:1156:A:C8	42:C8:51:LYS:HG2	2.24	0.73
44:E8:27:LYS:HB3	44:E8:31:GLU:HG3	1.71	0.73
1:1G:1142:G:H3'	1:1G:1143:G:H8	1.53	0.73
26:14:943:U:OP2	37:35:36:LYS:HD3	1.87	0.73
26:14:1048:A:OP2	26:14:1110:G:N2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2062:A:O2'	26:14:2063:C:OP1	2.07	0.73
46:C5:2:ARG:NE	46:C5:2:ARG:HA	2.04	0.73
30:21:50:GLY:HA2	30:21:77:ILE:HA	1.69	0.73
47:H8:134:PRO:HG3	47:H8:161:VAL:HG11	1.71	0.73
1:1G:1105:A:H2'	1:1G:1106:G:C8	2.24	0.73
1:1G:1411:C:O2	1:1G:1489:G:N2	2.16	0.73
7:62:18:TYR:HD2	7:62:59:LEU:HD22	1.54	0.73
9:82:32:ASP:HB3	9:82:35:GLU:HB2	1.69	0.73
26:14:470:A:H5'	26:14:470:A:H8	1.53	0.73
26:14:1022:G:O2'	26:14:1023:U:OP2	2.07	0.73
39:55:56:LYS:NZ	39:55:90:ARG:O	2.18	0.73
33:51:9:ILE:HG21	33:51:51:ARG:HH21	1.54	0.73
4:32:162:LEU:HD21	4:32:181:MET:HE3	1.71	0.73
26:14:972:G:OP2	26:14:973:A:O2'	2.05	0.73
37:35:98:GLU:HA	37:35:101:VAL:HG12	1.70	0.73
38:45:75:THR:HA	38:45:89:ASN:HA	1.69	0.73
32:41:55:LYS:HE2	32:41:150:ASP:HB3	1.68	0.72
1:1G:958:A:N3	1:1G:985:C:O2'	2.21	0.72
1:1G:973:G:O2'	10:1A:54:PHE:O	2.06	0.72
1:1G:1449:C:H3'	1:1G:1450:U:O4'	1.88	0.72
3:22:63:ASN:HA	3:22:98:ASN:HB2	1.71	0.72
13:4A:90:LEU:HD12	13:4A:91:ARG:HD3	1.69	0.72
26:14:1107:G:N2	26:14:1108:U:O2	2.22	0.72
31:39:129:PHE:HA	31:39:142:TRP:CD1	2.22	0.72
26:1H:1174:A:O2'	26:1H:1178:C:N4	2.22	0.72
29:11:142:VAL:HG23	29:11:193:VAL:HA	1.71	0.72
53:N8:40:LYS:NZ	53:N8:48:GLU:H	1.87	0.72
1:1G:1305:G:H22	1:1G:1331:G:H2'	1.53	0.72
8:72:48:TYR:HB3	8:72:61:VAL:HG13	1.71	0.72
9:82:26:VAL:HG22	9:82:60:ASP:HA	1.69	0.72
16:7A:72:ARG:HD2	16:7A:73:LEU:HD23	1.70	0.72
26:14:754:C:H2'	26:14:755:C:H6	1.54	0.72
26:14:839:U:H2'	26:14:840:C:C6	2.24	0.72
26:14:960:A:H61	38:45:82:ARG:HH21	1.37	0.72
26:14:1288:U:C2	26:14:1327:C:O2	2.42	0.72
26:14:1899:G:O2'	26:14:1900:A:O5'	2.07	0.72
45:B5:57:LEU:HD21	45:B5:78:LYS:HD2	1.70	0.72
1:13:730:G:C5	1:13:731:G:H1'	2.24	0.72
1:13:1372:U:H5''	9:8E:71:SER:HB3	1.71	0.72
26:1H:1520:U:H2'	26:1H:1521:G:O4'	1.90	0.72
36:68:19:ILE:HG22	36:68:43:VAL:HA	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:A8:106:ARG:NH1	40:A8:107:GLU:HG2	2.04	0.72
1:1G:1207:G:H2'	1:1G:1208:C:C6	2.24	0.72
5:42:68:GLU:HG3	5:42:70:PRO:HD3	1.70	0.72
32:49:136:ARG:NH2	32:49:154:GLY:H	1.88	0.72
43:95:79:VAL:O	43:95:80:GLN:HG2	1.90	0.72
6:5E:81:ILE:HD11	29:11:125:ILE:HB	1.70	0.72
7:6E:111:ARG:NH1	7:6E:113:GLU:OE2	2.23	0.72
28:71:45:ALA:HA	28:71:211:SER:O	1.89	0.72
37:78:114:ILE:HD11	37:78:130:PHE:HD2	1.54	0.72
43:D8:44:LYS:O	43:D8:46:VAL:N	2.22	0.72
1:1G:1055:A:H62	1:1G:1200:C:H42	1.37	0.72
42:85:91:ASP:O	42:85:92:ARG:HG3	1.90	0.72
5:4E:98:THR:HB	5:4E:117:ASP:HB3	1.72	0.72
26:1H:732:C:H3'	61:1H:3508:HOH:O	1.89	0.72
26:1H:1173:G:N2	26:1H:1175:U:O4'	2.23	0.72
42:C8:92:ARG:O	42:C8:94:ASN:N	2.23	0.72
13:4A:97:PRO:HA	13:4A:110:ARG:HE	1.53	0.72
26:14:1252:G:N3	42:85:33:ARG:HD2	2.05	0.72
26:14:1316:U:H2'	26:14:1317:A:H8	1.54	0.72
26:14:1329:U:H5''	26:14:1330:C:H5	1.54	0.72
32:49:106:LEU:HG	32:49:111:LEU:CG	2.19	0.72
37:35:106:LEU:HD13	37:35:112:LEU:HD23	1.71	0.72
1:13:611:A:N1	1:13:629:G:N2	2.33	0.72
26:1H:1785:A:OP2	61:1H:3525:HOH:O	2.07	0.72
26:1H:1798:U:H5'	29:11:259:THR:OG1	1.89	0.72
32:41:47:LYS:HD2	32:41:81:LYS:HB2	1.70	0.72
37:78:115:LEU:HA	37:78:134:ALA:HB2	1.72	0.72
43:D8:47:VAL:O	43:D8:49:THR:OG1	2.08	0.72
50:K8:42:GLY:C	50:K8:44:LEU:H	1.97	0.72
1:1G:1410:G:H2'	1:1G:1411:C:C6	2.25	0.72
20:BA:64:ASP:CG	20:BA:81:LYS:HZ2	1.97	0.72
26:14:580:C:H2'	26:14:581:C:H6	1.54	0.72
26:14:993:G:N3	43:95:89:GLN:NE2	2.38	0.72
53:J5:49:CYS:SG	53:J5:50:GLY:N	2.62	0.72
22:1K:51:A:H2	22:1K:64:G:H1	1.38	0.72
26:1H:297:C:H5''	46:G8:86:ARG:HG3	1.70	0.72
26:1H:1338:G:O2'	26:1H:1339:G:H5'	1.88	0.72
50:K8:42:GLY:O	50:K8:44:LEU:N	2.23	0.72
1:1G:552:U:H1'	12:3A:32:PHE:CE1	2.25	0.72
1:1G:1123:A:H4'	10:1A:36:GLY:HA3	1.72	0.72
26:14:2399:G:N2	26:14:2417:C:O2	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2053:G:OP1	61:1H:3522:HOH:O	2.05	0.72
26:1H:2213:U:O2	49:J8:52:ARG:NH2	2.23	0.72
26:1H:2298:A:H62	26:1H:2318:G:H8	1.36	0.72
26:1H:2788:C:O2'	26:1H:2809:A:N3	2.22	0.72
50:K8:16:LEU:HD23	50:K8:16:LEU:C	2.14	0.72
1:1G:37:U:H2'	1:1G:38:G:H8	1.54	0.72
11:2A:29:ILE:HG22	11:2A:44:SER:HB2	1.72	0.72
20:BA:92:LEU:HB3	20:BA:98:PRO:HB3	1.72	0.72
26:14:1378:A:O2'	26:14:1380:G:N7	2.17	0.72
40:65:62:LYS:HA	40:65:65:VAL:HB	1.70	0.72
41:75:91:ARG:NH1	41:75:124:ASP:OD2	2.22	0.72
1:13:410:G:OP1	4:3E:30:LYS:NZ	2.22	0.72
26:1H:2453:A:OP2	61:1H:3524:HOH:O	2.07	0.72
1:1G:589:C:N3	1:1G:650:G:N2	2.30	0.72
1:1G:600:C:H2'	1:1G:601:C:H6	1.55	0.72
9:82:28:VAL:HG13	9:82:63:ILE:O	1.89	0.72
26:14:2304:G:N2	26:14:2312:U:O4	2.22	0.72
41:75:93:ARG:HH11	41:75:93:ARG:HG2	1.55	0.72
47:D5:10:ARG:NH2	47:D5:26:GLY:O	2.22	0.72
26:1H:2712:U:H1'	26:1H:2712(A):A:C8	2.23	0.72
32:41:96:ARG:HB2	32:41:96:ARG:HH11	1.52	0.72
1:1G:363:A:OP1	12:3A:33:ARG:HG3	1.90	0.72
1:1G:1150:U:H4'	10:1A:41:PRO:HG3	1.70	0.72
2:12:61:LEU:HD12	2:12:160:ASP:HB2	1.72	0.72
2:12:118:LEU:HD11	2:12:141:GLU:HG2	1.71	0.72
10:1A:80:LYS:O	10:1A:84:GLN:NE2	2.23	0.72
26:14:450:G:OP2	61:14:3520:HOH:O	2.08	0.72
26:14:1416:G:O2'	26:14:1417:C:O5'	2.07	0.72
26:14:1945:G:H2'	26:14:1946:U:H6	1.54	0.72
27:1J:7:G:H2'	40:65:38:GLN:HE22	1.55	0.72
27:1J:80:U:H2'	27:1J:81:G:N2	2.04	0.72
27:1J:101:A:N7	61:1J:302:HOH:O	2.23	0.72
44:A5:45:TYR:CZ	44:A5:49:LYS:NZ	2.57	0.72
44:A5:45:TYR:OH	44:A5:49:LYS:NZ	2.23	0.72
3:2E:84:ILE:HG23	3:2E:88:ARG:HH22	1.55	0.71
26:1H:646:A:H2'	26:1H:647:G:O4'	1.90	0.71
26:1H:1250:G:N7	37:78:18:ARG:NH1	2.38	0.71
26:1H:1486:A:H2'	26:1H:1487:G:H8	1.53	0.71
26:1H:2399:G:H1	26:1H:2417:C:H42	1.37	0.71
1:1G:625:G:H4'	16:7A:16:HIS:CG	2.25	0.71
5:42:84:PHE:N	5:42:87:SER:O	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:72:83:ILE:HD13	8:72:137:VAL:HG22	1.70	0.71
26:14:872:A:H4'	38:45:66:ILE:HD11	1.72	0.71
26:14:1579:A:H2'	26:14:1580:A:C8	2.25	0.71
26:14:1754:C:P	41:75:96:ARG:NH1	2.63	0.71
26:14:2016:U:O2	53:J5:7:PRO:HG2	1.90	0.71
40:65:85:VAL:HG22	40:65:110:LEU:HB2	1.71	0.71
1:13:1291:G:OP1	7:6E:37:ASN:CG	2.32	0.71
5:4E:145:LYS:HD3	5:4E:146:ALA:H	1.54	0.71
19:AI:18:LYS:HZ1	19:AI:22:LEU:HD13	1.55	0.71
26:1H:1009:A:OP2	35:58:37:LYS:NZ	2.23	0.71
26:1H:1521:G:N7	61:1H:3567:HOH:O	2.23	0.71
26:1H:2145:C:H5	26:1H:2148:G:H21	1.37	0.71
37:78:101:VAL:HG12	37:78:106:LEU:HD12	1.71	0.71
1:1G:1090:U:H2'	1:1G:1091:U:C6	2.25	0.71
1:1G:1154:G:H2'	1:1G:1155:G:C8	2.25	0.71
11:2A:98:LEU:HA	11:2A:101:SER:HB3	1.71	0.71
46:C5:87:LYS:H	46:C5:94:LYS:HG2	1.55	0.71
50:G5:43:GLN:HB2	50:G5:45:SER:O	1.90	0.71
7:6E:2:ALA:HB2	7:6E:7:ALA:HB2	1.73	0.71
26:1H:592:G:N3	55:Q8:4:MET:HE1	2.05	0.71
26:1H:1332:G:OP1	61:1H:3527:HOH:O	2.08	0.71
37:78:17:LYS:HG3	37:78:18:ARG:H	1.54	0.71
43:D8:15:GLU:HG3	43:D8:16:PRO:HD2	1.72	0.71
1:1G:278:G:OP2	17:8A:41:LYS:NZ	2.23	0.71
26:14:529:A:H4'	26:14:530:G:H5'	1.70	0.71
26:14:2376:A:H2'	26:14:2377:A:C8	2.25	0.71
31:39:63:LYS:NZ	31:39:67:GLN:HB3	2.04	0.71
34:69:8:PRO:HD3	34:69:15:VAL:HG22	1.71	0.71
40:65:66:ALA:O	40:65:69:VAL:HG22	1.91	0.71
26:1H:234:C:H2'	26:1H:235:U:H6	1.55	0.71
26:1H:2287:A:H62	26:1H:2344:U:H3	1.35	0.71
27:16:101:A:OP2	61:16:301:HOH:O	2.06	0.71
26:14:733:G:OP2	61:14:3517:HOH:O	2.07	0.71
27:1J:3:C:H42	27:1J:117:G:H22	1.37	0.71
29:11:69:ARG:NH2	29:11:128:GLY:O	2.18	0.71
3:22:33:LEU:HD12	3:22:36:ASP:HB3	1.70	0.71
9:82:114:TYR:HE2	10:1A:60:ARG:H	1.38	0.71
26:14:544:C:N4	26:14:549:G:O6	2.16	0.71
26:14:1198:U:H2'	26:14:1199:U:H6	1.54	0.71
43:95:35:LEU:HB2	43:95:37:VAL:CG1	2.19	0.71
1:13:396:G:O2'	1:13:398:C:OP1	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:5E:67:MET:HE1	6:5E:75:LEU:HD12	1.72	0.71
34:61:59:ALA:HA	34:61:62:LYS:HB3	1.73	0.71
1:1G:942:G:N2	9:82:124:GLN:OE1	2.23	0.71
1:1G:1508:G:O6	1:1G:1527:C:N4	2.19	0.71
5:42:101:ILE:HD11	5:42:119:LEU:HD23	1.71	0.71
5:42:122:GLU:O	5:42:126:ARG:NH1	2.23	0.71
12:3A:100:ILE:HG22	12:3A:101:VAL:N	2.06	0.71
26:14:1091:G:N2	26:14:1092:C:N3	2.38	0.71
26:14:2334:G:N2	40:65:16:ASN:OD1	2.22	0.71
55:M5:33:ASN:O	55:M5:35:GLN:N	2.23	0.71
1:13:404:U:OP1	4:3E:118:ARG:NH1	2.24	0.71
26:1H:125:G:H5'	26:1H:125:G:H8	1.55	0.71
26:1H:1113:U:H5'	33:51:2:SER:HB2	1.71	0.71
26:1H:2751:G:H5'	33:51:4:ILE:HD12	1.73	0.71
26:1H:2795:G:N2	26:1H:2799:A:OP2	2.24	0.71
46:G8:94:LYS:HZ3	46:G8:95:LYS:H	1.37	0.71
1:1G:581:G:OP1	15:6A:61:GLY:HA3	1.89	0.71
12:3A:78:GLN:HE22	12:3A:81:SER:HB3	1.55	0.71
26:14:996:A:OP2	42:85:92:ARG:NH1	2.22	0.71
27:1J:103:U:HO2'	47:D5:29:TYR:HH	1.33	0.71
1:13:330:C:O2	61:13:1806:HOH:O	2.08	0.71
1:13:583:A:OP2	61:13:1807:HOH:O	2.09	0.71
1:13:881:G:OP2	12:3I:12:ARG:NH2	2.24	0.71
1:13:1130:A:O2'	9:8E:3:GLN:NE2	2.24	0.71
26:1H:1430:C:H2'	26:1H:1431:U:H6	1.55	0.71
45:F8:9:LEU:HB2	45:F8:29:TRP:O	1.91	0.71
51:L8:12:PRO:O	51:L8:20:LYS:NZ	2.23	0.71
26:14:139:G:N2	26:14:1596:A:H4'	2.05	0.71
26:14:2378:A:H4'	40:65:23:ARG:HH11	1.55	0.71
31:39:131:GLY:H	31:39:142:TRP:HB2	1.56	0.71
26:1H:1705:G:C2'	26:1H:1706:U:H5'	2.20	0.71
26:1H:1981:A:OP1	61:1H:3526:HOH:O	2.08	0.71
26:1H:2395:C:H5''	26:1H:2396:G:OP2	1.89	0.71
29:11:31:LYS:O	29:11:34:VAL:N	2.23	0.71
50:K8:3:LEU:CB	50:K8:6:VAL:H	2.04	0.71
1:1G:922:G:H4'	5:42:20:GLN:HA	1.73	0.71
1:1G:1052:U:O2	1:1G:1206:G:N1	2.16	0.71
1:1G:1134:G:N2	1:1G:1141:C:N3	2.39	0.71
5:42:10:MET:HA	5:42:32:VAL:HG22	1.73	0.71
26:14:598:G:H1'	37:35:12:ALA:HB2	1.71	0.71
26:14:1455:G:OP2	61:14:3518:HOH:O	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:160:ASN:HB3	31:39:163:VAL:HB	1.73	0.71
1:13:1147:C:O2	9:8E:16:ARG:NH1	2.24	0.71
22:1K:14:A:H61	22:1K:22:G:H2'	1.55	0.71
24:3K:15:G:H2'	24:3K:59:A:H61	1.56	0.71
26:1H:2849:U:O4	41:B8:23:ARG:NH2	2.18	0.71
30:21:77:ILE:O	30:21:79:ARG:N	2.23	0.71
26:14:1024:G:H3'	26:14:1025:G:H5''	1.71	0.71
29:19:255:LYS:H	29:19:255:LYS:CD	2.03	0.71
32:49:76:SER:OG	32:49:84:LYS:N	2.24	0.71
47:D5:158:PRO:HG2	47:D5:161:VAL:HG22	1.73	0.71
4:3E:74:GLN:O	4:3E:78:LEU:HD13	1.91	0.70
9:8E:50:LEU:HD23	9:8E:85:LEU:HD11	1.71	0.70
26:1H:1678:G:H8	26:1H:1678:G:O5'	1.74	0.70
29:11:146:GLU:HB2	29:11:189:CYS:HB3	1.72	0.70
30:21:82:ARG:O	30:21:84:PHE:N	2.24	0.70
32:41:35:GLU:HG3	32:41:36:LYS:HB2	1.72	0.70
1:1G:198:G:H2'	1:1G:199:G:H8	1.56	0.70
30:29:54:GLN:O	30:29:75:VAL:HG13	1.91	0.70
40:65:62:LYS:HD3	40:65:97:ARG:HD2	1.71	0.70
7:6E:5:ARG:HB3	7:6E:7:ALA:H	1.56	0.70
9:8E:121:ARG:NH1	9:8E:122:ALA:O	2.23	0.70
41:B8:111:ARG:HD3	41:B8:111:ARG:H	1.56	0.70
45:F8:15:GLU:H	45:F8:15:GLU:CD	1.98	0.70
3:22:16:ARG:NH2	3:22:182:ILE:H	1.88	0.70
9:82:14:VAL:HB	9:82:65:VAL:HG23	1.73	0.70
26:14:273(F):C:H3'	26:14:274:G:H5''	1.72	0.70
26:14:321:G:OP1	31:39:135:LYS:NZ	2.17	0.70
1:13:1062:U:H2'	1:13:1063:C:C6	2.27	0.70
26:1H:1336:A:OP2	45:F8:64:LYS:NZ	2.18	0.70
29:11:31:LYS:O	29:11:35:LYS:NZ	2.24	0.70
37:78:126:VAL:CG1	37:78:147:LEU:HD11	2.15	0.70
4:32:71:SER:OG	4:32:74:GLN:OE1	2.08	0.70
57:3L:35:U:O2	25:4L:14:A:N6	2.24	0.70
31:39:27:GLU:O	31:39:28:ILE:HG12	1.91	0.70
32:49:73:ALA:HB3	32:49:85:GLY:H	1.57	0.70
1:13:812:C:N3	61:13:1815:HOH:O	2.25	0.70
4:3E:107:ARG:NH2	4:3E:194:LEU:HD22	2.06	0.70
17:8I:75:ARG:NH1	17:8I:76:LEU:O	2.24	0.70
28:71:23:ASP:HB2	28:71:190:ARG:NH2	2.05	0.70
46:G8:68:HIS:O	46:G8:71:LYS:HG2	1.91	0.70
49:J8:93:GLU:CD	49:J8:94:LEU:N	2.48	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M8:31:ILE:HG22	52:M8:32:TYR:H	1.55	0.70
53:N8:33:CYS:SG	53:N8:40:LYS:HD3	2.31	0.70
1:1G:1080:A:H5'	5:42:14:ARG:HH22	1.56	0.70
1:1G:1248:A:N6	1:1G:1288:A:OP2	2.24	0.70
30:29:103:ASP:OD1	30:29:201:THR:HG22	1.90	0.70
37:35:52:GLU:N	37:35:52:GLU:CD	2.49	0.70
47:D5:29:TYR:HB3	47:D5:34:ASN:HB2	1.72	0.70
48:E5:70:GLN:OE1	48:E5:72:ARG:NH1	2.24	0.70
1:13:266:G:H5''	1:13:267:C:C5	2.27	0.70
1:13:848:C:H2'	1:13:849:C:O4'	1.92	0.70
26:1H:33:U:H4'	26:1H:34:C:OP1	1.90	0.70
26:1H:442:G:H1'	31:31:48:THR:HG21	1.72	0.70
4:32:19:LEU:HB2	4:32:21:LEU:HD11	1.73	0.70
29:19:255:LYS:CD	29:19:255:LYS:N	2.55	0.70
1:13:719:C:H1'	18:9I:49:LYS:HG2	1.72	0.70
2:1E:63:MET:HB2	2:1E:225:ALA:HB1	1.73	0.70
13:4I:82:MET:C	13:4I:84:ILE:H	1.99	0.70
26:1H:654(C):G:H1	26:1H:654(Q):C:N4	1.89	0.70
26:1H:1359:A:H2'	26:1H:1360:A:H5'	1.72	0.70
26:1H:1381:G:N7	61:1H:3566:HOH:O	2.23	0.70
1:1G:114:U:H2'	1:1G:115:G:C8	2.26	0.70
13:4A:32:GLU:O	13:4A:36:LYS:N	2.23	0.70
26:14:1106:G:H3'	26:14:1107:G:C8	2.27	0.70
39:55:29:LEU:HB3	39:55:75:LEU:HD21	1.73	0.70
26:1H:389:G:P	49:J8:25:LYS:CE	2.79	0.70
26:1H:731:C:OP1	61:1H:3529:HOH:O	2.09	0.70
26:1H:1329:U:H5''	26:1H:1330:C:H5	1.54	0.70
29:11:26:LYS:HD2	29:11:29:PRO:HB3	1.72	0.70
1:1G:1162:C:H42	1:1G:1174:G:H1	1.38	0.70
2:12:103:THR:HG23	2:12:176:GLU:HB3	1.72	0.70
2:12:127:ILE:O	2:12:135:GLN:NE2	2.24	0.70
15:6A:16:ALA:HB1	15:6A:21:ASP:HB3	1.74	0.70
26:14:1486:A:H2'	26:14:1487:G:C8	2.26	0.70
26:14:2468:G:H22	26:14:2481:G:HO2'	1.37	0.70
30:29:47:VAL:HG21	30:29:86:PRO:HD2	1.72	0.70
30:29:53:PRO:HA	30:29:74:PRO:HB3	1.74	0.70
1:13:524:G:H2'	1:13:525:C:C6	2.27	0.70
46:G8:42:VAL:HG13	46:G8:43:ASN:H	1.56	0.70
1:1G:617:G:H5'	16:7A:45:THR:HG22	1.74	0.70
1:1G:1105:A:H2'	1:1G:1106:G:H8	1.55	0.70
7:62:47:CYS:HA	7:62:50:ILE:HB	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1B:6:ARG:HH11	21:1B:15:ARG:HH12	1.38	0.70
26:14:1635:G:OP1	61:14:3519:HOH:O	2.08	0.70
30:29:116:VAL:HG11	30:29:138:PRO:HB3	1.73	0.70
31:39:120:GLU:HG3	31:39:122:LYS:HG2	1.72	0.70
32:49:119:GLY:HA3	32:49:181:ARG:HB2	1.74	0.70
18:9I:53:ARG:HA	18:9I:56:THR:CG2	2.22	0.70
26:1H:2295:C:OP1	40:A8:10:ARG:NH1	2.24	0.70
30:21:48:GLN:OE1	30:21:77:ILE:HG21	1.92	0.70
1:1G:421:U:O2'	1:1G:423:G:N7	2.24	0.70
8:72:17:THR:O	8:72:78:GLN:NE2	2.24	0.70
21:1B:3:LYS:HB3	21:1B:14:TRP:CD1	2.26	0.70
56:1L:3:G:O2'	56:1L:4:U:O5'	2.10	0.70
26:14:900:A:H2'	26:14:901:A:C8	2.27	0.70
26:14:1047:G:H21	26:14:1111:A:H61	1.37	0.70
1:13:664:G:H22	1:13:741:G:H1	1.38	0.70
26:1H:2646:C:OP2	26:1H:2732:G:O2'	2.10	0.70
42:C8:92:ARG:HD2	43:D8:11:GLN:CG	2.20	0.70
1:1G:1126:U:N3	1:1G:1281:U:O4'	2.25	0.70
1:1G:1343:G:H4'	9:82:122:ALA:HB3	1.74	0.70
7:62:51:GLN:O	7:62:51:GLN:NE2	2.24	0.70
26:14:531:C:H4'	26:14:532:A:H5''	1.74	0.70
30:29:60:ASN:OD1	30:29:63:LEU:HD22	1.92	0.70
1:13:737:A:H2'	1:13:738:C:H6	1.53	0.69
8:7E:21:LYS:O	8:7E:63:LEU:HD23	1.92	0.69
24:3K:49:G:N2	24:3K:65:C:O2	2.21	0.69
26:1H:311:A:H2	26:1H:331:A:H5''	1.57	0.69
29:11:137:PRO:O	29:11:140:THR:OG1	2.08	0.69
30:21:38:THR:HG23	30:21:41:LYS:H	1.57	0.69
39:98:61:HIS:O	39:98:64:ARG:N	2.25	0.69
43:D8:38:LEU:O	43:D8:51:VAL:HG23	1.92	0.69
11:2A:27:ASN:OD1	11:2A:28:THR:N	2.26	0.69
26:14:39:C:O2	31:39:46:ARG:NH2	2.25	0.69
26:14:1794:U:H2'	26:14:1795:C:H6	1.55	0.69
36:25:7:TYR:HE1	36:25:20:MET:HE3	1.56	0.69
43:95:69:LYS:HD3	43:95:86:GLY:HA3	1.72	0.69
1:13:692:U:O2'	1:13:694:A:N7	2.21	0.69
22:1K:48:C:O2'	22:1K:49:G:OP1	2.10	0.69
26:1H:1330:C:OP1	61:1H:3530:HOH:O	2.09	0.69
8:72:29:SER:HB3	8:72:32:LYS:HG3	1.74	0.69
9:82:81:ILE:O	9:82:85:LEU:N	2.25	0.69
26:14:452:G:OP2	61:14:3524:HOH:O	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:19:30:GLU:HG3	29:19:63:ARG:NH2	2.06	0.69
33:59:9:ILE:HG22	33:59:52:VAL:H	1.58	0.69
47:D5:76:LEU:HA	47:D5:83:PRO:HA	1.74	0.69
53:J5:16:ARG:NH1	53:J5:17:ASP:OD1	2.26	0.69
26:1H:270(L):U:C2	34:61:50:ARG:HG2	2.26	0.69
26:1H:1386:C:H2'	26:1H:1387:C:H6	1.58	0.69
34:61:110:ASP:OD1	34:61:112:LYS:HG3	1.92	0.69
41:B8:11:GLU:OE1	41:B8:11:GLU:HA	1.84	0.69
1:1G:1184:G:H2'	1:1G:1185:G:C8	2.26	0.69
3:22:20:SER:HB2	3:22:40:ARG:HH22	1.57	0.69
26:14:323:G:O2'	26:14:1205:U:N3	2.25	0.69
26:14:752:A:OP2	54:L5:1:MET:HE1	1.92	0.69
1:13:233:C:H2'	1:13:234:C:H6	1.56	0.69
7:6E:75:VAL:HG13	7:6E:145:ALA:HA	1.72	0.69
16:7I:5:ARG:HH21	16:7I:22:THR:HG23	1.57	0.69
20:BI:90:GLN:HA	20:BI:93:GLU:HB2	1.74	0.69
27:16:4:C:H42	27:16:116:G:H1	1.39	0.69
29:11:136:ILE:O	29:11:168:ARG:NH2	2.25	0.69
32:41:25:TYR:CD2	32:41:31:VAL:HG12	2.27	0.69
32:41:179:PRO:HB3	52:M8:38:LYS:HE2	1.72	0.69
41:B8:16:ARG:NH2	41:B8:83:ILE:O	2.24	0.69
1:1G:1264:C:H1'	1:1G:1272:G:H22	1.58	0.69
26:14:2836:U:H2'	26:14:2837:G:C8	2.27	0.69
28:71:212:VAL:HG21	28:71:226:PRO:HG3	1.74	0.69
35:58:69:GLN:O	35:58:71:ILE:HD12	1.92	0.69
1:1G:1348:U:H3	1:1G:1374:A:H2	1.38	0.69
26:14:1800:C:OP2	29:19:183:ARG:NH2	2.25	0.69
26:14:2812:G:N2	26:14:2889:C:N3	2.41	0.69
31:39:63:LYS:HZ1	31:39:67:GLN:HB3	1.57	0.69
48:E5:21:LEU:HD21	48:E5:41:ARG:HH12	1.58	0.69
1:13:126:G:OP1	1:13:605:U:O2'	2.11	0.69
26:1H:592:G:H21	55:Q8:4:MET:HE1	1.56	0.69
26:1H:1606:G:OP1	61:1H:3531:HOH:O	2.09	0.69
26:1H:2098:U:H3	26:1H:2191:G:H1	1.40	0.69
43:D8:1:MET:SD	43:D8:43:GLU:OE1	2.51	0.69
1:1G:534:U:O3'	61:1G:1703:HOH:O	2.10	0.69
1:1G:838:G:N2	1:1G:842:C:O2'	2.24	0.69
1:1G:1353:G:O6	1:1G:1369:C:N4	2.26	0.69
2:12:91:PRO:CG	2:12:155:LEU:HG	2.23	0.69
17:8A:88:TYR:HA	17:8A:91:ARG:HD2	1.75	0.69
23:2L:61:U:OP2	23:2L:62:C:N4	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1019:U:H3	26:14:1142(A):A:H62	1.41	0.69
26:14:1073:A:H2'	26:14:1074:G:H8	1.58	0.69
37:35:97:PRO:O	37:35:98:GLU:HG3	1.91	0.69
37:35:101:VAL:HG21	37:35:108:LYS:HB2	1.72	0.69
38:45:66:ILE:HD12	38:45:67:ARG:N	2.04	0.69
41:75:88:ILE:O	41:75:88:ILE:HG13	1.91	0.69
50:G5:19:VAL:HA	50:G5:22:GLU:HG3	1.73	0.69
1:13:1412:C:H2'	1:13:1413:A:C8	2.27	0.69
20:BI:50:GLU:HG2	20:BI:100:ILE:HB	1.75	0.69
24:3K:34:U:C4	25:4K:14:A:N6	2.59	0.69
26:1H:818:G:OP2	61:1H:3534:HOH:O	2.11	0.69
26:1H:1290:C:H2'	26:1H:1291:C:C6	2.28	0.69
26:1H:1658:C:OP1	61:1H:3533:HOH:O	2.10	0.69
32:41:54:GLU:N	32:41:54:GLU:OE2	2.26	0.69
1:1G:503:C:OP2	12:3A:116:SER:HB3	1.92	0.69
1:1G:1181:G:N2	1:1G:1182:G:O2'	2.25	0.69
15:6A:10:LYS:HD2	15:6A:10:LYS:C	2.18	0.69
57:3L:76:A:H61	26:14:2422:A:H5''	1.56	0.69
26:14:1456:G:OP2	61:14:3518:HOH:O	2.10	0.69
1:13:1078:U:O2	5:4E:130:ASN:ND2	2.25	0.69
17:8I:65:ILE:HG21	17:8I:69:LYS:HE2	1.75	0.69
26:1H:1525:G:H2'	26:1H:1526:G:H8	1.58	0.69
30:21:131:ALA:HB1	61:21:401:HOH:O	1.90	0.69
38:88:66:ILE:CD1	38:88:67:ARG:H	2.05	0.69
41:B8:26:ASP:OD2	41:B8:120:ARG:NH2	2.24	0.69
50:K8:47:ASN:O	50:K8:49:LYS:N	2.24	0.69
55:Q8:33:ASN:HA	55:Q8:36:LYS:HD2	1.75	0.69
1:1G:438:G:H4'	4:32:123:HIS:CD2	2.27	0.69
1:1G:517:G:N2	1:1G:530:G:OP1	2.19	0.69
26:14:1453:A:OP2	61:14:3522:HOH:O	2.10	0.69
45:B5:63:LYS:HD2	45:B5:63:LYS:C	2.17	0.69
46:C5:48:ALA:HB3	46:C5:59:GLY:HA2	1.74	0.69
48:E5:49:LYS:HB2	48:E5:82:ARG:HH12	1.58	0.69
1:13:1137:C:O2	1:13:1138:G:N2	2.25	0.69
9:8E:47:LEU:HD23	9:8E:47:LEU:H	1.58	0.69
26:1H:1520:U:OP2	61:1H:3535:HOH:O	2.11	0.69
26:1H:1845:G:OP1	29:11:258:LYS:NZ	2.23	0.69
26:1H:2849:U:OP2	41:B8:95:ARG:NH1	2.26	0.69
32:41:150:ASP:OD1	32:41:151:ALA:N	2.26	0.69
1:1G:316:G:OP2	1:1G:351:G:O2'	2.11	0.69
1:1G:1239:A:H4'	1:1G:1240:U:H5''	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:112:VAL:N	4:32:116:GLN:OE1	2.14	0.69
34:69:7:GLU:HG2	34:69:8:PRO:HD2	1.74	0.69
19:AI:18:LYS:O	19:AI:18:LYS:NZ	2.21	0.69
26:1H:1535:U:O4	26:1H:1538:G:O2'	2.06	0.69
38:88:66:ILE:O	38:88:104:PHE:N	2.26	0.69
1:1G:928:G:O2'	1:1G:1533:C:OP1	2.11	0.69
29:19:31:LYS:NZ	29:19:33:LEU:HB2	2.08	0.69
30:29:9:VAL:HG12	41:75:8:LYS:NZ	2.08	0.69
32:49:124:SER:HB2	32:49:131:TYR:CE1	2.28	0.69
49:F5:7:ILE:HA	49:F5:91:LYS:HE2	1.73	0.69
49:F5:40:ARG:HH21	49:F5:42:GLN:HE21	1.41	0.69
1:13:376:G:O3'	16:7I:5:ARG:NH1	2.25	0.68
2:1E:70:PHE:O	2:1E:93:VAL:N	2.20	0.68
3:2E:180:ALA:HB1	3:2E:182:ILE:HG13	1.74	0.68
9:8E:13:ALA:HB2	9:8E:68:GLY:HA3	1.74	0.68
26:1H:2377:A:H2'	26:1H:2378:A:C8	2.27	0.68
42:C8:74:LEU:HD13	42:C8:75:ASN:O	1.93	0.68
43:D8:21:ARG:HG2	43:D8:91:TYR:CE2	2.28	0.68
46:G8:30:VAL:HG22	46:G8:37:VAL:HG12	1.73	0.68
2:12:30:ARG:HH22	2:12:194:PRO:HB2	1.58	0.68
7:62:148:ASN:ND2	7:62:148:ASN:O	2.26	0.68
8:72:104:ARG:HB3	8:72:108:GLY:H	1.57	0.68
11:2A:48:ILE:HD11	11:2A:64:ALA:HA	1.74	0.68
13:4A:66:LEU:HA	13:4A:70:LEU:HD12	1.75	0.68
57:3L:11:C:H42	57:3L:24:G:H1	1.41	0.68
26:14:752:A:H3'	54:L5:1:MET:SD	2.34	0.68
26:14:1153:C:OP1	42:85:93:LYS:NZ	2.26	0.68
26:14:1693:U:O2'	29:19:14:ARG:NH2	2.26	0.68
45:B5:40:LYS:HA	45:B5:51:VAL:HG11	1.74	0.68
1:13:453:A:H4'	16:7I:72:ARG:HB2	1.73	0.68
1:13:1149:C:H2'	1:13:1150:U:C6	2.27	0.68
4:3E:18:LYS:HD3	4:3E:31:CYS:SG	2.33	0.68
26:1H:780:G:H21	26:1H:783:A:H62	1.39	0.68
48:I8:53:MET:HG3	48:I8:59:LEU:CD2	2.24	0.68
26:14:26:G:OP1	44:A5:80:PRO:HB3	1.93	0.68
26:14:34:C:H1'	26:14:35:G:OP1	1.92	0.68
26:14:1399:C:H2'	26:14:1400:G:H8	1.59	0.68
32:49:136:ARG:CZ	32:49:154:GLY:H	2.06	0.68
47:D5:4:ARG:HG2	47:D5:58:VAL:HB	1.74	0.68
2:1E:230:VAL:HG22	2:1E:231:GLU:H	1.57	0.68
6:5E:17:SER:HA	6:5E:20:ALA:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:7I:22:THR:HA	16:7I:33:ILE:HG13	1.74	0.68
26:1H:1729:A:O2'	26:1H:1730:U:H5''	1.93	0.68
26:1H:1778:U:H2'	26:1H:1784:A:N6	2.07	0.68
41:B8:51:ARG:HB2	41:B8:98:LYS:HD3	1.76	0.68
1:1G:1160:G:OP1	2:12:133:LYS:NZ	2.25	0.68
26:14:2210:G:H3'	26:14:2211:G:C5	2.28	0.68
47:D5:10:ARG:HH21	47:D5:26:GLY:N	1.91	0.68
48:E5:63:VAL:HG12	48:E5:64:ASP:H	1.58	0.68
1:13:1291:G:OP1	7:6E:37:ASN:ND2	2.25	0.68
8:7E:86:ILE:HG22	8:7E:87:SER:H	1.58	0.68
17:8I:101:ARG:H	17:8I:101:ARG:HH21	1.41	0.68
26:1H:639:U:O2'	26:1H:640:C:H5'	1.91	0.68
33:51:153:LYS:HB2	33:51:155:SER:H	1.58	0.68
37:78:118:GLY:O	37:78:137:LYS:NZ	2.24	0.68
1:1G:345:C:OP2	41:75:39:ARG:NH2	2.22	0.68
1:1G:560:U:O2'	1:1G:561:U:OP2	2.11	0.68
26:14:34:C:O2'	26:14:35:G:O5'	2.10	0.68
1:13:1238:A:N3	1:13:1241:G:O2'	2.26	0.68
16:7I:8:ARG:NH1	16:7I:15:PRO:CA	2.56	0.68
26:1H:1405:U:H2'	26:1H:1406:U:C6	2.28	0.68
37:78:15:ARG:HB3	37:78:16:ARG:HD2	1.73	0.68
1:1G:1086:U:H2'	1:1G:1087:G:H8	1.58	0.68
1:1G:1089:G:H1	1:1G:1096:C:H42	1.41	0.68
23:2L:10:G:N2	23:2L:27:G:H1'	2.08	0.68
26:14:1680:U:N3	26:14:1764:G:OP2	2.23	0.68
1:13:1285:A:O5'	1:13:1285:A:H8	1.77	0.68
2:1E:133:LYS:HD2	2:1E:134:GLU:N	2.09	0.68
28:71:21:THR:O	28:71:25:ALA:N	2.27	0.68
30:21:64:LYS:O	30:21:70:ALA:HB1	1.93	0.68
41:B8:31:SER:HB2	41:B8:84:GLN:HB2	1.75	0.68
8:72:7:ALA:HA	8:72:10:LEU:HD12	1.75	0.68
26:14:2513:G:O2'	30:29:154:LYS:NZ	2.26	0.68
43:95:35:LEU:O	43:95:37:VAL:HG22	1.93	0.68
49:F5:52:ARG:HH11	49:F5:57:GLU:HG3	1.58	0.68
1:13:401:C:O2'	1:13:621:A:N3	2.27	0.68
1:13:457:C:H2'	1:13:458:C:H6	1.59	0.68
19:AI:44:MET:O	19:AI:47:HIS:ND1	2.23	0.68
22:1K:5:C:H1'	22:1K:69:A:H61	1.57	0.68
2:12:30:ARG:NH2	2:12:195:ASP:OD1	2.27	0.68
9:82:21:PRO:HA	9:82:59:PHE:HA	1.75	0.68
10:1A:28:ARG:HH21	10:1A:34:VAL:HB	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:93:C:H5'	26:14:94:G:OP2	1.94	0.68
26:14:1359:A:H62	26:14:1372:U:H3	0.80	0.68
26:14:2352:A:C2	48:E5:33:ALA:HB1	2.29	0.68
31:39:34:TRP:HB2	37:35:6:LEU:HD12	1.74	0.68
41:75:3:ARG:HG2	41:75:6:LEU:H	1.57	0.68
1:13:393:A:OP2	16:7I:12:LYS:NZ	2.20	0.68
4:3E:157:LEU:O	4:3E:161:ASN:ND2	2.27	0.68
5:4E:81:GLU:HG2	5:4E:90:VAL:HG23	1.73	0.68
18:9I:66:LEU:HG	18:9I:70:ILE:HD11	1.75	0.68
26:1H:270(R):G:H2'	26:1H:270(S):G:C8	2.29	0.68
26:1H:1443:G:C2	26:1H:1549:C:N3	2.62	0.68
26:1H:1538:G:H2'	26:1H:1539:G:H8	1.59	0.68
26:1H:2405:G:OP1	37:78:77:ARG:NH2	2.27	0.68
29:11:29:PRO:O	29:11:30:GLU:HG2	1.94	0.68
1:13:407:G:OP2	61:13:1808:HOH:O	2.11	0.68
2:1E:69:LEU:HD11	2:1E:93:VAL:HG23	1.74	0.68
13:4I:9:ILE:HD12	32:41:146:TYR:CD2	2.28	0.68
19:AI:13:ASP:HA	19:AI:16:LEU:HB3	1.76	0.68
24:3K:57:G:H1	26:1H:2112:G:N2	1.91	0.68
26:1H:489:G:N7	44:E8:49:LYS:NZ	2.35	0.68
4:32:15:GLU:OE1	4:32:59:ARG:NH2	2.19	0.68
4:32:165:MET:HA	4:32:168:ARG:HD2	1.75	0.68
5:42:43:LEU:HD22	5:42:136:MET:HG3	1.76	0.68
26:14:601:C:O2'	31:39:104:LYS:NZ	2.27	0.68
32:49:19:LEU:HA	32:49:22:ARG:HB2	1.75	0.68
32:49:41:GLN:NE2	32:49:154:GLY:O	2.26	0.68
41:75:13:ARG:HD3	41:75:13:ARG:N	2.09	0.68
1:13:552:U:H5'	12:3I:86:ARG:HD2	1.75	0.68
1:13:736:C:H2'	1:13:737:A:C8	2.28	0.68
1:13:1291:G:P	7:6E:37:ASN:OD1	2.52	0.68
2:1E:33:TYR:HB2	2:1E:43:ASP:HB2	1.76	0.68
16:7I:43:LYS:HA	16:7I:48:TRP:HB2	1.76	0.68
26:1H:1537:C:H42	26:1H:1538:G:H21	1.42	0.68
44:E8:24:ILE:HD12	44:E8:24:ILE:O	1.94	0.68
49:J8:91:LYS:O	49:J8:93:GLU:OE1	2.12	0.68
1:1G:967:C:H3'	1:1G:968:A:H2'	1.76	0.68
13:4A:91:ARG:HB2	13:4A:92:HIS:CD2	2.29	0.68
26:14:2343:C:O2'	26:14:2373:G:O2'	2.01	0.68
26:14:2353:G:N7	61:14:3547:HOH:O	2.27	0.68
26:14:2773:C:H2'	26:14:2774:C:C6	2.29	0.68
29:19:246:PRO:HD2	29:19:255:LYS:HE3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:107:ARG:HH22	4:3E:194:LEU:HD22	1.58	0.67
5:4E:9:LYS:NZ	5:4E:111:GLU:OE2	2.27	0.67
26:1H:1509:C:H2'	26:1H:1511:A:C8	2.29	0.67
26:1H:2591:C:H2'	26:1H:2592:G:C8	2.28	0.67
29:11:85:ASP:OD2	29:11:88:ARG:NH1	2.25	0.67
43:D8:21:ARG:CZ	43:D8:93:GLU:OE2	2.42	0.67
1:1G:108:G:OP1	1:1G:326:G:N2	2.26	0.67
1:1G:275:G:H5'	17:8A:14:LYS:HG2	1.74	0.67
1:1G:1004:A:OP2	1:1G:1025:U:N3	2.26	0.67
1:1G:1258:G:H2'	1:1G:1259:C:H6	1.59	0.67
26:14:875:G:H2'	26:14:876:C:H5'	1.77	0.67
26:14:1342:A:H2	26:14:1602:U:H3	1.42	0.67
26:14:2681:C:H5	26:14:2725:A:H62	1.41	0.67
29:19:148:GLU:HB2	29:19:151:LYS:HD2	1.75	0.67
32:49:125:PHE:HB3	32:49:166:ASP:HB2	1.74	0.67
47:D5:127:LYS:O	47:D5:162:GLU:HB3	1.93	0.67
18:9I:66:LEU:O	18:9I:70:ILE:HG13	1.94	0.67
26:1H:1859:A:N6	26:1H:1883:G:O2'	2.28	0.67
29:11:27:THR:C	29:11:29:PRO:HD3	2.19	0.67
46:G8:29:GLU:HB3	46:G8:38:ILE:CG2	2.24	0.67
1:1G:536:C:OP2	61:1G:1705:HOH:O	2.12	0.67
1:1G:575:G:O2'	61:1G:1704:HOH:O	2.11	0.67
1:1G:658:G:O6	1:1G:746:A:N6	2.27	0.67
1:1G:1431:C:N3	1:1G:1469:G:N2	2.38	0.67
8:72:106:GLY:O	8:72:122:ARG:NH2	2.27	0.67
9:82:15:ALA:HB1	9:82:80:GLY:HA3	1.76	0.67
26:14:536:A:H4'	42:85:57:PHE:HZ	1.59	0.67
26:14:1388:G:H2'	26:14:1389:G:H8	1.59	0.67
26:14:2273:A:H2'	26:14:2274:A:C8	2.29	0.67
27:1J:88:C:H5''	27:1J:89:G:N7	2.09	0.67
29:19:245:PRO:C	29:19:255:LYS:NZ	2.44	0.67
32:49:173:LEU:HA	32:49:176:LEU:HB2	1.76	0.67
10:1I:83:GLU:HA	10:1I:86:MET:HE1	1.75	0.67
42:C8:91:ASP:OD1	42:C8:93:LYS:HA	1.95	0.67
49:J8:83:GLU:HG3	49:J8:85:LEU:H	1.59	0.67
26:14:2012:G:OP1	44:A5:11:ARG:NH2	2.27	0.67
32:49:105:LYS:CG	32:49:106:LEU:HD13	2.25	0.67
36:25:7:TYR:CE1	36:25:20:MET:HE3	2.29	0.67
40:65:10:ARG:HH21	40:65:91:PRO:HB2	1.57	0.67
46:C5:88:LYS:O	46:C5:89:PHE:HB3	1.95	0.67
1:13:145:G:O6	1:13:177:C:N4	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:30:LYS:HA	4:3E:35:ARG:HE	1.59	0.67
7:6E:48:LYS:HA	7:6E:51:GLN:HB3	1.76	0.67
26:1H:55:G:H2'	26:1H:56:A:H8	1.57	0.67
26:1H:787:U:H5''	26:1H:788:A:H5'	1.75	0.67
26:1H:1557:C:OP2	26:1H:1558:A:O2'	2.12	0.67
26:1H:2093:G:OP2	34:61:22:LYS:HD2	1.95	0.67
27:16:73:A:OP2	61:16:302:HOH:O	2.11	0.67
43:D8:37:VAL:O	43:D8:38:LEU:HG	1.94	0.67
1:1G:448:A:P	1:1G:485:G:H22	2.17	0.67
4:32:50:ARG:HH11	5:42:10:MET:HE2	1.60	0.67
26:14:2537:U:H2'	26:14:2538:C:C6	2.29	0.67
31:39:40:GLN:HE22	31:39:182:ASN:HB2	1.59	0.67
46:C5:83:THR:HG22	46:C5:84:ARG:H	1.60	0.67
47:D5:97:GLU:HB3	47:D5:125:LEU:HD11	1.76	0.67
26:1H:2801:A:OP2	26:1H:2895:U:O2'	2.13	0.67
28:71:200:LYS:HE3	28:71:204:ALA:HB3	1.77	0.67
34:61:135:GLU:OE1	34:61:136:VAL:CA	2.42	0.67
1:1G:1304:G:N1	1:1G:1332:A:OP2	2.27	0.67
3:22:16:ARG:HH22	3:22:182:ILE:H	1.43	0.67
26:14:188:G:N7	61:14:3550:HOH:O	2.28	0.67
26:14:1678:G:H22	26:14:1989:G:N2	1.92	0.67
33:59:61:HIS:O	33:59:65:HIS:N	2.24	0.67
37:35:105:LEU:O	37:35:106:LEU:HB3	1.92	0.67
46:C5:20:TYR:CZ	46:C5:42:VAL:HA	2.29	0.67
26:1H:422:A:P	61:1H:3579:HOH:O	2.53	0.67
28:71:20:TYR:HB2	28:71:25:ALA:HB2	1.74	0.67
31:31:33:LEU:CD1	31:31:112:MET:HE2	2.25	0.67
1:1G:108:G:H5'	1:1G:109:A:H5''	1.74	0.67
1:1G:677:U:H3	1:1G:713:G:H22	1.40	0.67
1:1G:762:C:H2'	1:1G:763:G:H8	1.58	0.67
1:1G:1452:C:H4'	1:1G:1453:G:O5'	1.92	0.67
13:4A:37:THR:HG22	13:4A:55:ARG:HH12	1.58	0.67
26:14:1007:C:OP1	35:15:37:LYS:NZ	2.28	0.67
27:1J:20:C:N3	27:1J:63:G:N2	2.42	0.67
29:19:242:ARG:HH11	29:19:242:ARG:H	1.42	0.67
32:49:53:LEU:HB2	32:49:90:LEU:HD11	1.76	0.67
32:49:112:PRO:HA	32:49:117:PHE:CG	2.30	0.67
42:85:92:ARG:HD3	42:85:94:ASN:HB3	1.76	0.67
1:13:690:G:H1	11:2I:51:LYS:HE3	1.60	0.67
5:4E:51:VAL:HG13	5:4E:52:PRO:HD3	1.75	0.67
5:4E:102:ALA:HB3	5:4E:107:ARG:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1857:G:O2'	26:1H:1885:A:N6	2.27	0.67
30:21:128:SER:OG	30:21:129:HIS:N	2.25	0.67
31:31:165:ARG:HA	31:31:168:ARG:HD3	1.76	0.67
39:98:33:ARG:HG3	39:98:115:GLU:HB3	1.76	0.67
46:G8:28:LYS:HZ1	46:G8:40:GLU:HG3	1.60	0.67
1:1G:977:A:O2'	1:1G:981:U:N3	2.28	0.67
11:2A:82:VAL:HB	11:2A:108:ILE:HG12	1.77	0.67
26:14:2305:A:C6	26:14:2306:C:C2	2.83	0.67
45:B5:41:ASN:HA	45:B5:44:GLU:HB2	1.77	0.67
5:4E:8:GLU:HG2	5:4E:34:VAL:HG22	1.75	0.67
26:1H:1257:C:H4'	31:31:83:PHE:CE1	2.29	0.67
26:1H:1432:C:H2'	26:1H:1433:U:O4'	1.94	0.67
33:51:102:ALA:HA	33:51:117:PRO:HD3	1.77	0.67
2:12:211:ILE:HG22	2:12:215:LEU:HD11	1.75	0.67
4:32:22:LYS:N	4:32:26:CYS:SG	2.66	0.67
16:7A:45:THR:OG1	16:7A:47:ASP:OD1	2.10	0.67
26:14:1581:G:H2'	26:14:1582:C:O4'	1.95	0.67
32:49:106:LEU:HD23	32:49:178:PHE:CE1	2.29	0.67
2:1E:136:VAL:HA	2:1E:139:LYS:HB3	1.76	0.67
26:1H:426:C:H2'	26:1H:427:U:H6	1.60	0.67
26:1H:1510:A:O2'	26:1H:1512:G:N7	2.17	0.67
26:1H:1697:G:OP2	26:1H:1698:A:O2'	2.11	0.67
33:51:4:ILE:HG23	33:51:6:ARG:CZ	2.25	0.67
1:1G:155:C:H42	1:1G:166:G:H1	1.42	0.67
1:1G:762:C:H2'	1:1G:763:G:C8	2.30	0.67
1:1G:979:C:H3'	1:1G:980:C:H5''	1.76	0.67
1:1G:1400:C:N4	23:2L:35:C:H1'	2.10	0.67
26:14:10:G:N2	26:14:2802:G:OP1	2.27	0.67
26:14:607:U:OP1	31:39:102:PRO:HA	1.94	0.67
26:14:1163:G:OP1	43:95:24:LYS:NZ	2.27	0.67
43:95:37:VAL:HG21	43:95:57:VAL:H	1.60	0.67
1:13:601:C:H2'	1:13:602:A:C8	2.26	0.67
1:13:1182:G:H4'	1:13:1183:A:H5''	1.75	0.67
1:13:1256:A:N6	1:13:1278:U:OP2	2.24	0.67
3:2E:95:THR:HB	3:2E:97:LYS:HG3	1.77	0.67
26:1H:607:U:OP1	31:31:102:PRO:HA	1.95	0.67
26:1H:2070:G:OP1	61:1H:3540:HOH:O	2.13	0.67
26:1H:2345:G:N3	26:1H:2381:C:H2'	2.10	0.67
4:32:31:CYS:C	4:32:33:MET:N	2.53	0.67
26:14:1537:C:H2'	26:14:1538:G:C8	2.30	0.67
26:14:2190:G:H2'	26:14:2191:G:H1'	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:39:ILE:HD11	32:49:94:LEU:HD12	1.76	0.67
32:49:106:LEU:HG	32:49:111:LEU:HB2	1.76	0.67
32:49:132:ASN:HB3	32:49:158:ALA:HA	1.77	0.67
36:25:107:ARG:HB3	36:25:115:VAL:HG21	1.76	0.67
38:45:35:VAL:HG12	38:45:36:ALA:H	1.59	0.67
40:65:42:ASP:O	40:65:43:GLU:HB3	1.94	0.67
42:85:92:ARG:O	42:85:94:ASN:N	2.27	0.67
50:G5:47:ASN:C	50:G5:49:LYS:H	2.03	0.67
1:13:318:G:H1	1:13:335:C:H42	1.43	0.66
1:13:765:G:H5''	1:13:766:A:OP1	1.96	0.66
23:2K:2:G:H2'	23:2K:2:G:N3	2.09	0.66
24:3K:17:U:H2'	24:3K:18:G:C8	2.29	0.66
26:1H:193:U:OP1	61:1H:3539:HOH:O	2.12	0.66
26:1H:1287:A:C8	39:98:107:ASP:HB2	2.29	0.66
26:1H:2079:U:O4	61:1H:3528:HOH:O	2.09	0.66
30:21:47:VAL:HG11	30:21:86:PRO:HD2	1.76	0.66
37:78:17:LYS:HG3	37:78:18:ARG:N	2.09	0.66
1:1G:406:G:O6	1:1G:436:C:N4	2.20	0.66
1:1G:1255:G:H22	1:1G:1283:G:H1'	1.58	0.66
4:32:127:THR:OG1	4:32:131:ARG:N	2.28	0.66
12:3A:78:GLN:NE2	12:3A:81:SER:HB3	2.09	0.66
26:14:528:A:OP2	35:15:114:ARG:NH1	2.28	0.66
26:14:750:A:OP1	26:14:1615:C:N4	2.28	0.66
26:14:1701:A:H5''	26:14:1702:G:OP2	1.95	0.66
26:14:1784:A:H5''	61:14:3656:HOH:O	1.94	0.66
26:14:2064:C:H2'	26:14:2065:C:C6	2.29	0.66
37:35:84:ASN:HD22	37:35:117:GLU:HB2	1.60	0.66
1:13:454:C:H41	1:13:478:A:H2	1.43	0.66
3:2E:147:LYS:HB3	3:2E:203:PHE:CD2	2.30	0.66
17:8I:45:HIS:O	17:8I:73:VAL:HG23	1.95	0.66
20:BI:29:LYS:O	20:BI:33:ILE:HG12	1.96	0.66
53:N8:40:LYS:HZ1	53:N8:48:GLU:H	1.40	0.66
1:1G:631:G:H2'	1:1G:631:G:OP2	1.95	0.66
1:1G:1259:C:H42	1:1G:1275:A:H61	1.43	0.66
26:14:34:C:HO2'	26:14:35:G:H8	1.43	0.66
26:14:1975:G:OP2	61:14:3527:HOH:O	2.13	0.66
29:19:27:THR:HG22	29:19:29:PRO:O	1.95	0.66
1:13:505:G:N7	61:13:1819:HOH:O	2.28	0.66
1:13:559:A:OP1	5:4E:126:ARG:NH2	2.28	0.66
5:4E:100:VAL:HG22	5:4E:118:ILE:HG22	1.75	0.66
26:1H:2312:U:H5'	32:41:88:ILE:HD12	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:92:ARG:HH21	43:D8:10:LYS:HB3	1.61	0.66
46:G8:34:LYS:HG3	46:G8:34:LYS:O	1.94	0.66
18:9A:21:LYS:NZ	18:9A:22:VAL:O	2.27	0.66
42:85:70:ARG:NH2	42:85:75:ASN:HB3	2.10	0.66
1:13:1060:C:C4	3:2E:2:GLY:HA3	2.30	0.66
13:4I:27:LYS:HA	13:4I:31:LYS:HZ3	1.60	0.66
17:8I:88:TYR:O	17:8I:91:ARG:HB2	1.94	0.66
19:AI:5:LEU:HD13	19:AI:10:PHE:CD1	2.30	0.66
26:1H:1187:G:H5''	43:D8:81:TYR:CE2	2.31	0.66
26:1H:1901:A:OP2	29:11:255:LYS:HE2	1.96	0.66
26:1H:1914:C:H2'	26:1H:1915:U:O4'	1.95	0.66
44:E8:18:ARG:HD3	44:E8:76:VAL:HG13	1.77	0.66
6:52:100:ASN:ND2	18:9A:26:LEU:O	2.28	0.66
26:14:2350:C:OP2	61:14:3528:HOH:O	2.14	0.66
26:14:2488:A:H8	26:14:2488:A:O5'	1.78	0.66
26:14:2749:A:N3	33:59:59:ARG:NH1	2.38	0.66
30:29:37:ARG:HD3	30:29:42:ASP:CG	2.20	0.66
34:69:123:LEU:HD23	34:69:142:VAL:HG23	1.75	0.66
1:13:221:C:H2'	1:13:222:U:H6	1.58	0.66
2:1E:12:GLU:N	2:1E:12:GLU:OE1	2.27	0.66
4:3E:92:VAL:HG12	4:3E:96:LEU:HD21	1.78	0.66
26:1H:600:G:N2	26:1H:605:C:O3'	2.29	0.66
26:1H:2690:C:H5''	26:1H:2872:G:N2	2.10	0.66
31:31:29:ASN:H	31:31:112:MET:HE1	1.59	0.66
35:58:96:GLU:O	35:58:98:VAL:HG12	1.94	0.66
41:B8:29:ARG:HB2	41:B8:46:GLU:HG3	1.76	0.66
1:1G:155:C:N3	1:1G:166:G:N2	2.40	0.66
1:1G:377:G:OP1	16:7A:3:LYS:NZ	2.28	0.66
3:22:182:ILE:HG22	3:22:203:PHE:HA	1.77	0.66
57:3L:50:C:H2'	57:3L:51:A:C8	2.31	0.66
26:14:336:C:OP1	46:C5:83:THR:HG23	1.96	0.66
26:14:780:G:OP1	29:19:218:ARG:NH2	2.29	0.66
26:14:1653:G:H3'	39:55:2:ARG:HG2	1.77	0.66
26:14:1729:A:H2'	26:14:1731:G:N2	2.11	0.66
26:14:2343:C:HO2'	26:14:2373:G:HO2'	1.28	0.66
38:45:4:PRO:HD3	38:45:70:PRO:O	1.96	0.66
26:1H:106:C:H2'	26:1H:107:C:C6	2.31	0.66
26:1H:363(B):G:H2'	26:1H:363(C):G:C8	2.29	0.66
26:1H:1397:U:OP2	26:1H:1398:C:N4	2.27	0.66
26:1H:1728:G:N2	26:1H:1730:U:OP2	2.29	0.66
34:61:93:THR:HA	34:61:119:PRO:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:D8:79:VAL:HG13	43:D8:81:TYR:HB3	1.75	0.66
1:1G:297:G:N2	1:1G:300:A:OP2	2.28	0.66
1:1G:411:A:H62	1:1G:413:G:H21	1.43	0.66
7:62:69:VAL:HG22	7:62:135:VAL:HG22	1.76	0.66
26:14:1975:G:OP1	61:14:3526:HOH:O	2.13	0.66
37:35:114:ILE:O	37:35:115:LEU:HD23	1.96	0.66
54:L5:12:ARG:NH2	54:L5:44:PRO:HB3	2.11	0.66
1:13:280:C:C2	17:8I:38:ARG:HG3	2.31	0.66
1:13:376:G:H5'	16:7I:5:ARG:HB2	1.76	0.66
1:13:963:G:H21	10:1I:55:LYS:CE	2.08	0.66
21:1F:5:ASP:HB3	21:1F:8:THR:HG22	1.77	0.66
26:1H:654(C):G:O2'	26:1H:654(S):G:N2	2.25	0.66
28:71:45:ALA:CB	28:71:212:VAL:HG22	2.25	0.66
4:32:91:SER:HA	4:32:94:LEU:HD12	1.76	0.66
5:42:69:VAL:O	5:42:71:LEU:N	2.29	0.66
10:1A:79:ARG:HA	10:1A:82:ILE:HG12	1.78	0.66
16:7A:67:THR:HG22	16:7A:68:ASP:H	1.60	0.66
26:14:580:C:H2'	26:14:581:C:C6	2.30	0.66
26:14:1022:G:H22	26:14:1142(A):A:H2	1.43	0.66
30:29:182:LEU:O	30:29:183:LEU:HD12	1.96	0.66
1:13:963:G:H1	1:13:972:C:H42	1.43	0.66
1:13:1126:U:H2'	1:13:1127:G:C8	2.31	0.66
1:13:1132:C:H2'	1:13:1133:G:H8	1.61	0.66
1:13:1189:C:H5'	3:2E:5:ILE:HD13	1.77	0.66
2:1E:5:ILE:HD12	2:1E:6:THR:H	1.61	0.66
4:3E:92:VAL:O	4:3E:96:LEU:HD22	1.95	0.66
6:5E:38:GLU:HB2	6:5E:64:GLN:HB3	1.78	0.66
19:AI:41:VAL:HG22	19:AI:67:VAL:O	1.96	0.66
26:1H:1139:G:O2'	26:1H:1143:A:N1	2.26	0.66
26:1H:1689:A:H62	26:1H:1698:A:H2	1.43	0.66
26:1H:1870:C:H2'	26:1H:1871:A:O4'	1.96	0.66
26:1H:2019:A:H62	53:N8:9:LYS:HE3	1.60	0.66
37:78:144:GLU:OE2	37:78:144:GLU:N	2.29	0.66
26:14:2520:C:H41	26:14:2542:A:H62	1.43	0.66
26:14:2712:U:H1'	26:14:2712(A):A:C8	2.31	0.66
26:1H:2572:A:C8	30:21:144:ARG:HD2	2.30	0.66
26:1H:2863:C:O2'	26:1H:2864:G:H5'	1.96	0.66
29:11:31:LYS:HG3	29:11:33:LEU:CD2	2.24	0.66
33:51:93:GLY:O	33:51:95:ARG:NH2	2.28	0.66
1:1G:887:G:H21	1:1G:1489:G:H4'	1.61	0.66
1:1G:1148:U:H2'	1:1G:1149:C:O4'	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1412:C:H2'	1:1G:1413:A:C8	2.31	0.66
1:1G:1535:C:H41	25:4L:9:G:H22	1.43	0.66
26:14:1899:G:N2	26:14:1902:C:H41	1.91	0.66
26:14:2068:U:H3	26:14:2430:A:H2	1.42	0.66
26:14:2162:G:H2'	26:14:2163:C:H5'	1.77	0.66
32:49:7:LEU:HD21	32:49:104:GLU:HA	1.77	0.66
9:8E:128:ARG:NH1	23:2K:34:U:OP2	2.19	0.66
26:1H:1657:C:H2'	26:1H:1658:C:C6	2.31	0.66
26:1H:1800:C:OP2	29:11:183:ARG:NH2	2.25	0.66
26:1H:2312:U:H5'	32:41:88:ILE:CD1	2.26	0.66
28:71:66:HIS:HB2	28:71:188:ASN:HD21	1.60	0.66
33:51:126:PRO:HG2	33:51:130:ARG:HH12	1.61	0.66
1:1G:359:U:H2'	1:1G:360:A:C8	2.31	0.66
1:1G:889:A:H61	1:1G:907:A:H5''	1.61	0.66
1:1G:1460:A:OP2	20:BA:27:LYS:NZ	2.28	0.66
4:32:175:SER:HB3	4:32:186:LEU:HD11	1.77	0.66
5:42:68:GLU:OE1	5:42:70:PRO:HG3	1.95	0.66
26:14:602:G:O2'	26:14:604:G:O2'	2.11	0.66
26:14:796:C:H2'	26:14:797:C:C6	2.31	0.66
26:14:1778:U:H2'	26:14:1784:A:N6	2.10	0.66
26:14:2758:A:H2'	26:14:2759:G:O4'	1.95	0.66
1:13:247:G:OP2	17:8I:100:LYS:N	2.29	0.65
1:13:1328:C:OP1	21:1F:21:TYR:OH	2.14	0.65
2:1E:237:ALA:O	2:1E:239:VAL:N	2.28	0.65
4:3E:98:GLU:O	4:3E:103:ASN:ND2	2.28	0.65
21:1F:8:THR:HG23	21:1F:11:GLY:H	1.61	0.65
26:1H:836:G:H5''	26:1H:837:C:OP2	1.96	0.65
26:1H:1441:G:H2'	26:1H:1442:G:C8	2.31	0.65
26:1H:1794:U:H2'	26:1H:1795:C:C6	2.31	0.65
26:1H:2502:G:OP2	61:1H:3543:HOH:O	2.14	0.65
29:11:2:ALA:HA	29:11:20:ASP:HB3	1.78	0.65
1:1G:1096:C:O2'	1:1G:1170:A:O2'	2.05	0.65
1:1G:1184:G:H2'	1:1G:1185:G:H8	1.59	0.65
1:1G:1513:A:H2'	1:1G:1514:C:C6	2.31	0.65
23:2L:5:G:N2	23:2L:69:C:O2	2.28	0.65
26:14:1797:C:HO2'	29:19:259:THR:HG1	1.29	0.65
31:39:25:PRO:HB2	31:39:27:GLU:H	1.60	0.65
37:35:47:ASP:OD2	37:35:50:ARG:NH1	2.30	0.65
1:13:129(A):G:H4'	1:13:130:A:H5''	1.78	0.65
12:3I:60:LEU:HD13	12:3I:61:THR:H	1.61	0.65
23:2K:33:OMC:HM22	23:2K:34:U:H5'	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:243:U:OP1	55:Q8:6:THR:OG1	2.14	0.65
26:1H:275:G:N7	26:1H:363:G:N1	2.45	0.65
26:1H:2855:C:H2'	26:1H:2856:C:H6	1.60	0.65
27:16:54:G:H2'	27:16:55:U:H6	1.60	0.65
1:1G:1200:C:O2	1:1G:1205:U:N3	2.27	0.65
26:14:1670:C:O2	30:29:129:HIS:NE2	2.24	0.65
40:65:107:GLU:N	40:65:110:LEU:HD21	2.10	0.65
41:75:8:LYS:O	41:75:11:GLU:HG2	1.96	0.65
45:B5:8:ILE:O	50:G5:36:ARG:NH2	2.29	0.65
45:B5:18:TYR:O	45:B5:20:GLY:N	2.30	0.65
51:H5:4:LEU:O	51:H5:36:VAL:HA	1.96	0.65
1:13:827:U:H5	1:13:872:A:N1	1.94	0.65
1:13:916:G:OP2	61:13:1809:HOH:O	2.15	0.65
24:3K:19:G:H22	26:1H:2112:G:H1'	1.59	0.65
26:1H:425:G:H2'	26:1H:426:C:H6	1.62	0.65
26:1H:456:C:H3'	45:F8:68:ARG:NH1	2.10	0.65
26:1H:1538:G:H2'	26:1H:1539:G:C8	2.31	0.65
27:16:100:G:OP2	61:16:303:HOH:O	2.13	0.65
29:11:35:LYS:N	29:11:35:LYS:HD2	2.10	0.65
1:1G:1071:C:H2'	1:1G:1072:G:C8	2.30	0.65
1:1G:1092:A:H5''	7:62:4:ARG:HH21	1.61	0.65
7:62:75:VAL:HA	7:62:88:PRO:HA	1.79	0.65
16:7A:36:ILE:HD12	16:7A:56:ALA:HA	1.79	0.65
26:14:628:G:H5''	55:M5:18:ALA:HB2	1.79	0.65
26:14:1665:A:OP2	61:14:3511:HOH:O	2.14	0.65
26:14:2137:C:H42	26:14:2155:G:H1	1.43	0.65
31:39:148:LEU:HD21	31:39:191:ARG:HD3	1.77	0.65
37:35:51:PHE:C	37:35:52:GLU:OE2	2.39	0.65
40:65:104:GLY:O	40:65:106:ARG:NH1	2.30	0.65
43:95:76:LYS:NZ	43:95:82:ARG:HE	1.95	0.65
1:13:224:C:H2'	1:13:225:C:C6	2.32	0.65
1:13:1073:U:O2'	2:1E:104:ASN:OD1	2.06	0.65
2:1E:215:LEU:HA	2:1E:218:ALA:HB3	1.79	0.65
26:1H:547:A:H2'	26:1H:548:A:H8	1.60	0.65
26:1H:729:G:O4'	29:11:208:LYS:NZ	2.30	0.65
27:16:8:U:N3	27:16:112:G:O6	2.17	0.65
50:K8:50:ILE:HD12	50:K8:51:ARG:N	2.10	0.65
1:1G:532:A:H2	3:22:156:ARG:HH22	1.44	0.65
26:14:825:C:H1'	37:35:55:ARG:HD3	1.78	0.65
26:14:1856:G:N2	26:14:1886:C:N3	2.44	0.65
30:29:170:LEU:HD11	30:29:185:LYS:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:36:VAL:HG11	31:39:183:VAL:HG21	1.77	0.65
46:C5:3:VAL:CG1	46:C5:32:PRO:HB2	2.27	0.65
1:13:323:U:H5'	20:BI:23:ARG:HB2	1.79	0.65
1:13:445:G:H2'	1:13:446:G:C8	2.31	0.65
1:13:1178:G:N2	1:13:1181:G:H8	1.95	0.65
1:13:1448:C:H42	1:13:1455:G:H1	1.44	0.65
26:1H:125:G:H5'	26:1H:125:G:C8	2.31	0.65
26:1H:1997:G:C5'	30:21:117:MET:HE2	2.26	0.65
26:1H:2176:A:OP1	28:71:7:TYR:OH	2.09	0.65
28:71:22:ILE:HA	28:71:25:ALA:HB3	1.79	0.65
1:1G:26:A:N6	1:1G:558:G:O2'	2.28	0.65
1:1G:592:G:N2	1:1G:647:C:O2	2.22	0.65
1:1G:1292:U:H2'	1:1G:1293:G:C8	2.30	0.65
7:62:21:VAL:HG23	7:62:22:LEU:HD12	1.77	0.65
7:62:73:MET:HG2	7:62:90:GLU:HA	1.79	0.65
7:62:113:GLU:O	7:62:119:ARG:HD3	1.96	0.65
26:14:901:A:H5'	26:14:902:C:OP2	1.96	0.65
26:14:2785:C:O2'	30:29:64:LYS:NZ	2.28	0.65
1:13:611:A:H61	1:13:629:G:H1	1.44	0.65
10:1I:44:VAL:HG11	10:1I:46:ARG:HH21	1.61	0.65
26:1H:323:G:C8	31:31:171:PRO:HG3	2.32	0.65
27:16:116:G:H4'	40:A8:54:LEU:HD12	1.79	0.65
33:51:30:LYS:NZ	33:51:81:GLU:H	1.94	0.65
37:78:114:ILE:HD11	37:78:130:PHE:CD2	2.32	0.65
46:G8:85:VAL:HG13	46:G8:98:VAL:HB	1.79	0.65
1:1G:408:A:H5'	4:32:116:GLN:HG3	1.79	0.65
1:1G:517:G:N2	1:1G:533:A:OP2	2.25	0.65
1:1G:1224:G:H1	1:1G:1322:C:HO2'	1.43	0.65
4:32:12:CYS:SG	4:32:18:LYS:HA	2.37	0.65
4:32:176:LEU:HG	4:32:178:VAL:HB	1.79	0.65
13:4A:14:ARG:HA	13:4A:43:THR:O	1.96	0.65
26:14:548:A:C5	26:14:549:G:H1'	2.31	0.65
26:14:2331:G:H4'	48:E5:43:THR:H	1.61	0.65
27:1J:44:G:H5''	27:1J:45:A:OP1	1.96	0.65
29:19:30:GLU:HG3	29:19:63:ARG:CZ	2.26	0.65
29:19:72:LYS:NZ	29:19:99:ASP:OD2	2.29	0.65
32:49:145:THR:OG1	32:49:148:MET:N	2.18	0.65
1:13:749:C:H2'	1:13:750:G:H8	1.62	0.65
1:13:1298:C:H2'	7:6E:114:ARG:HH21	1.61	0.65
7:6E:69:VAL:HG22	7:6E:135:VAL:HG13	1.77	0.65
19:AI:22:LEU:HA	19:AI:25:LYS:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2261:C:O2'	26:1H:2262:U:H5'	1.97	0.65
26:1H:2576:G:OP1	61:1H:3542:HOH:O	2.14	0.65
34:61:68:LEU:HA	34:61:71:ILE:CG2	2.27	0.65
37:78:60:MET:HA	55:Q8:13:ARG:NH1	2.12	0.65
48:I8:53:MET:HG3	48:I8:59:LEU:HD23	1.78	0.65
52:M8:36:CYS:HB3	52:M8:39:CYS:HB3	1.77	0.65
1:1G:1109:C:H2'	1:1G:1110:A:O4'	1.96	0.65
15:6A:15:PHE:O	15:6A:27:VAL:HG22	1.96	0.65
26:14:995:C:O4'	42:85:57:PHE:HD2	1.79	0.65
26:14:1408:C:O2	26:14:1595:G:N2	2.29	0.65
26:14:2438:U:H5''	26:14:2600:A:OP1	1.97	0.65
27:1J:52:A:H62	40:65:33:LYS:HG3	1.61	0.65
36:25:11:ALA:HB1	36:25:99:PHE:HB2	1.78	0.65
49:F5:24:ALA:HB3	49:F5:27:GLU:HG3	1.77	0.65
1:13:148:G:N2	1:13:149:A:N1	2.45	0.65
1:13:983:A:H2	1:13:984:C:C6	2.14	0.65
1:13:1368:G:OP1	9:8E:111:ARG:NH2	2.30	0.65
15:6I:11:VAL:HG21	15:6I:34:LEU:HD13	1.79	0.65
26:1H:141(A):C:H2'	26:1H:142:G:O4'	1.97	0.65
26:1H:2173:A:H2'	26:1H:2174:C:C2	2.31	0.65
29:11:29:PRO:HG2	29:11:83:GLU:OE1	1.95	0.65
37:78:31:ALA:O	37:78:32:THR:HG22	1.97	0.65
4:32:103:ASN:OD1	4:32:114:ARG:NH2	2.30	0.65
13:4A:91:ARG:O	13:4A:95:GLY:N	2.30	0.65
26:14:142:G:H1'	45:B5:37:THR:HG21	1.79	0.65
26:14:646:A:H2'	26:14:647:G:O4'	1.96	0.65
26:14:990:A:H5'	26:14:990:A:H8	1.62	0.65
26:14:1899:G:N2	26:14:1902:C:N4	2.44	0.65
26:14:2745:C:H42	26:14:2759:G:H1	1.44	0.65
32:49:111:LEU:HB3	32:49:117:PHE:CE1	2.30	0.65
39:55:85:PRO:O	39:55:88:ARG:HD2	1.96	0.65
5:4E:39:GLY:CA	5:4E:113:ALA:HB1	2.26	0.65
16:7I:77:ALA:HB3	16:7I:79:VAL:HG23	1.78	0.65
26:1H:587:C:H2'	37:78:19:VAL:HG21	1.77	0.65
34:61:144:VAL:HG13	34:61:145:VAL:HG23	1.79	0.65
39:98:14:SER:OG	39:98:15:SER:N	2.28	0.65
44:E8:58:ALA:HB1	44:E8:64:MET:HG3	1.77	0.65
1:1G:793:U:O2	1:1G:1516:G:H4'	1.97	0.65
11:2A:86:GLY:H	11:2A:112:THR:HG23	1.62	0.65
26:14:2724:C:OP1	30:29:118:LYS:HE3	1.97	0.65
29:19:246:PRO:CD	29:19:255:LYS:CE	2.75	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:45:57:HIS:CE1	38:45:116:GLU:HB3	2.32	0.65
40:65:3:ARG:HE	40:65:3:ARG:C	2.04	0.65
42:85:91:ASP:OD2	42:85:96:ALA:HB2	1.97	0.65
43:95:2:PHE:CE1	43:95:13:ARG:HG3	2.32	0.65
44:A5:37:ARG:HG2	44:A5:38:TYR:CE1	2.32	0.65
1:13:750:G:N3	15:6I:23:GLY:HA3	2.11	0.65
1:13:963:G:H21	10:1I:55:LYS:HE2	1.62	0.65
1:13:1449:C:O2'	1:13:1451:A:N6	2.29	0.65
5:4E:148:VAL:HA	5:4E:151:LEU:HD12	1.78	0.65
17:8I:101:ARG:N	17:8I:101:ARG:HD3	2.12	0.65
26:1H:309:G:N3	26:1H:329:G:O2'	2.29	0.65
30:29:54:GLN:H	30:29:74:PRO:HB3	1.62	0.65
30:29:171:GLU:HB3	30:29:185:LYS:HG3	1.78	0.65
1:13:536:C:OP2	61:13:1810:HOH:O	2.15	0.64
1:13:1234:C:H2'	1:13:1235:U:C6	2.32	0.64
28:71:66:HIS:HB2	28:71:188:ASN:ND2	2.12	0.64
29:11:35:LYS:HA	29:11:64:ILE:HG22	1.79	0.64
50:K8:4:SER:C	50:K8:7:ARG:HG2	2.21	0.64
1:1G:298:A:O5'	1:1G:298:A:H8	1.80	0.64
1:1G:565:U:H3'	1:1G:566:G:H2'	1.79	0.64
1:1G:629:G:H2'	1:1G:630:G:H4'	1.78	0.64
1:1G:736:C:H2'	1:1G:737:A:C8	2.32	0.64
1:1G:922:G:H1	1:1G:1395:C:H42	1.45	0.64
1:1G:933:G:N7	7:62:3:ARG:NH2	2.45	0.64
1:1G:1219:U:OP1	14:5A:19:ARG:NH1	2.26	0.64
4:32:31:CYS:HB2	4:32:33:MET:H	1.63	0.64
10:1A:49:VAL:HB	14:5A:41:ARG:HB2	1.79	0.64
57:3L:12:U:H3	57:3L:23:A:H61	1.44	0.64
26:14:55:G:O6	26:14:115:C:N4	2.19	0.64
26:14:2777:G:H5''	26:14:2778:A:H5'	1.78	0.64
30:29:81:ILE:HG22	30:29:82:ARG:H	1.62	0.64
32:49:60:LEU:HD21	32:49:92:VAL:HG11	1.79	0.64
4:3E:31:CYS:HB3	4:3E:34:GLU:HG2	1.78	0.64
22:1K:74:C:H42	26:1H:2508:G:H5'	1.61	0.64
26:1H:1328:G:H2'	26:1H:1330:C:C5	2.32	0.64
36:68:112:MET:HG3	36:68:113:LYS:H	1.62	0.64
55:Q8:54:GLU:O	55:Q8:58:ILE:HG12	1.97	0.64
1:1G:625:G:H4'	16:7A:16:HIS:CD2	2.32	0.64
1:1G:1084:G:H5'	1:1G:1102:A:OP2	1.98	0.64
2:12:115:LEU:HD13	2:12:145:LEU:HB3	1.77	0.64
7:62:68:ASN:ND2	7:62:127:ALA:O	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3A:18:VAL:O	12:3A:19:ARG:HG3	1.98	0.64
26:14:89:G:H3'	26:14:90:U:H5''	1.79	0.64
26:14:303:U:H2'	26:14:304:G:C8	2.32	0.64
26:14:568:U:O2'	61:14:3529:HOH:O	2.15	0.64
26:14:1794:U:H2'	26:14:1795:C:C6	2.31	0.64
26:14:2683:C:OP1	41:75:53:ARG:NH2	2.31	0.64
35:15:30:ILE:O	35:15:34:LEU:HD22	1.97	0.64
1:13:457:C:H2'	1:13:458:C:C6	2.31	0.64
26:1H:1728:G:H2'	26:1H:1731:G:O6	1.97	0.64
29:11:141:VAL:HG12	29:11:164:GLN:HG2	1.78	0.64
1:1G:376:G:H5''	16:7A:5:ARG:HB2	1.79	0.64
2:12:49:GLU:O	2:12:52:GLU:HG3	1.97	0.64
2:12:97:TRP:HZ3	2:12:99:GLY:HA2	1.63	0.64
26:14:289:A:H3'	26:14:290:G:H8	1.61	0.64
26:14:925:C:H2'	26:14:926:A:H8	1.61	0.64
26:14:960:A:H61	38:45:82:ARG:NH2	1.95	0.64
26:14:2031:A:N3	26:14:2455:G:O2'	2.25	0.64
27:1J:7:G:H3'	27:1J:8:U:H5''	1.77	0.64
27:1J:18:G:H2'	27:1J:19:G:C8	2.31	0.64
27:1J:113:C:H2'	27:1J:114:G:C8	2.32	0.64
29:19:242:ARG:O	61:19:302:HOH:O	2.15	0.64
44:A5:73:ALA:O	44:A5:106:ILE:HG12	1.97	0.64
46:C5:76:CYS:HB2	46:C5:104:GLY:HA3	1.80	0.64
1:13:677:U:H3	1:13:713:G:H22	1.45	0.64
26:1H:106:C:H2'	26:1H:107:C:H6	1.61	0.64
31:31:8:GLN:OE1	31:31:21:ALA:HB2	1.96	0.64
35:58:38:HIS:CE1	35:58:39:ARG:HG3	2.31	0.64
1:1G:629:G:C2	1:1G:630:G:H1'	2.32	0.64
2:12:74:LYS:HD2	2:12:166:ASP:HB2	1.79	0.64
26:14:196:A:OP2	37:35:46:LYS:NZ	2.30	0.64
26:14:729:G:H2'	26:14:1775:U:O2	1.98	0.64
26:14:1114:G:H2'	26:14:1115:G:C8	2.32	0.64
26:14:2490:G:H2'	26:14:2490:G:N3	2.10	0.64
26:14:2611:U:H5'	26:14:2611:U:C6	2.23	0.64
32:49:60:LEU:HD22	32:49:68:PRO:HB3	1.80	0.64
7:6E:79:ARG:HG3	7:6E:84:ASN:HB2	1.78	0.64
8:7E:10:LEU:HD22	8:7E:83:ILE:HD11	1.78	0.64
26:1H:878:A:N1	26:1H:898:C:N4	2.42	0.64
41:B8:62:THR:HG22	41:B8:75:ILE:HG13	1.79	0.64
1:1G:980:C:H5'	1:1G:981:U:H5	1.63	0.64
11:2A:109:VAL:HG12	18:9A:86:VAL:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:468:G:H5''	26:14:469:G:OP2	1.97	0.64
26:14:1071:G:N2	26:14:1090:U:OP2	2.26	0.64
26:14:2387:U:H4'	48:E5:41:ARG:HH21	1.62	0.64
38:45:31:ASP:N	38:45:106:VAL:O	2.29	0.64
46:C5:52:SER:H	46:C5:56:PRO:HA	1.62	0.64
49:F5:71:TYR:O	49:F5:74:VAL:HG12	1.97	0.64
1:13:491:G:H2'	1:13:492:G:H8	1.61	0.64
1:13:1034:G:N2	1:13:1035:A:N7	2.42	0.64
1:13:1131:G:H2'	1:13:1132:C:H6	1.62	0.64
26:1H:2580:U:H4'	30:21:130:GLY:HA3	1.78	0.64
26:1H:2701:C:H3'	26:1H:2702:U:C5'	2.27	0.64
27:16:7:G:H4'	40:A8:29:PHE:CD2	2.33	0.64
34:61:3:VAL:HG12	34:61:38:LEU:HA	1.80	0.64
41:B8:91:ARG:O	41:B8:116:ALA:HA	1.98	0.64
46:G8:42:VAL:HG13	46:G8:43:ASN:N	2.13	0.64
1:1G:1132:C:H2'	1:1G:1133:G:C8	2.33	0.64
1:1G:1502:A:H2	1:1G:1505:G:H1	1.44	0.64
3:22:31:HIS:HA	3:22:34:LEU:HD23	1.80	0.64
4:32:12:CYS:SG	4:32:19:LEU:N	2.62	0.64
26:14:577:G:O2'	26:14:1254:A:OP1	2.15	0.64
26:14:957:A:C4'	38:45:76:LYS:HE2	2.28	0.64
26:14:2135:A:H1'	26:14:2159:G:O2'	1.97	0.64
43:95:58:VAL:H	43:95:98:GLU:HB2	1.62	0.64
55:M5:50:LEU:HG	55:M5:51:ALA:H	1.63	0.64
1:13:21:G:H2'	1:13:22:G:C8	2.33	0.64
2:1E:121:LEU:HB3	2:1E:127:ILE:HG23	1.78	0.64
17:8I:9:VAL:O	17:8I:21:VAL:HA	1.98	0.64
17:8I:55:ASP:HA	17:8I:79:SER:HA	1.80	0.64
26:1H:2128:C:N3	26:1H:2129:C:N4	2.44	0.64
29:11:29:PRO:HD2	29:11:30:GLU:HG2	1.80	0.64
1:1G:1443:G:O2'	41:75:122:ASP:OD2	2.16	0.64
26:14:620:G:N3	26:14:620:G:H5''	2.13	0.64
26:14:867:C:H5	26:14:868:U:C4	2.15	0.64
26:14:1568:G:H5'	29:19:60:ARG:HA	1.80	0.64
26:14:2327:A:H2'	26:14:2328:A:C8	2.33	0.64
26:14:2882:A:OP1	39:55:96:ARG:NE	2.18	0.64
11:2I:85:ARG:HA	11:2I:112:THR:OG1	1.97	0.64
16:7I:8:ARG:HH12	16:7I:15:PRO:HA	1.63	0.64
26:1H:185:U:H4'	26:1H:218:A:H4'	1.80	0.64
26:1H:1434:A:H61	26:1H:1558:A:H62	1.43	0.64
26:14:676:A:H8	26:14:2069:G:N2	1.92	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1669:A:H5''	26:14:1670:C:OP2	1.98	0.64
30:29:119:ARG:HD3	30:29:120:TRP:CD1	2.32	0.64
42:85:90:VAL:HG22	43:95:39:LEU:HB3	1.78	0.64
1:13:5:U:O4	4:3E:89:THR:HG23	1.98	0.64
1:13:390:C:O3'	16:7I:28:ARG:NH2	2.31	0.64
1:13:836:G:OP1	18:9I:61:LYS:NZ	2.30	0.64
3:2E:84:ILE:HG23	3:2E:88:ARG:NH2	2.13	0.64
19:AI:41:VAL:HG12	19:AI:44:MET:HB2	1.80	0.64
24:3K:61:C:O2	28:7I:52:ARG:HD3	1.98	0.64
26:1H:322:A:H5'	26:1H:340:A:H1'	1.79	0.64
26:1H:330:A:HO2'	26:1H:331:A:H8	1.43	0.64
26:1H:1509:C:H2'	26:1H:1511:A:H8	1.62	0.64
26:1H:2657:A:O2'	33:51:160:LYS:NZ	2.30	0.64
39:98:10:LEU:O	39:98:12:ARG:N	2.31	0.64
41:B8:26:ASP:O	41:B8:49:VAL:HG12	1.98	0.64
42:C8:69:CYS:HG	42:C8:79:PHE:HD2	1.45	0.64
1:1G:1142:G:H3'	1:1G:1143:G:C8	2.32	0.64
2:12:19:HIS:CE1	2:12:204:ASN:HB3	2.33	0.64
6:52:69:GLU:OE1	6:52:69:GLU:N	2.25	0.64
26:14:957:A:C5'	38:45:76:LYS:CD	2.54	0.64
26:14:1040:C:H2'	26:14:1041:C:O4'	1.97	0.64
26:14:1379:A:H4'	26:14:1380:G:OP2	1.96	0.64
30:29:109:LYS:HE2	30:29:191:PRO:HA	1.80	0.64
34:69:75:LEU:HD22	34:69:77:LEU:N	2.12	0.64
43:95:44:LYS:O	43:95:46:VAL:N	2.26	0.64
1:13:1177:G:H2'	1:13:1178:G:C4	2.33	0.64
1:13:1503:A:N6	25:4K:11:U:O2	2.31	0.64
8:7E:6:ILE:HB	8:7E:85:ARG:HH12	1.61	0.64
26:1H:274:G:H2'	26:1H:275:G:H1'	1.79	0.64
1:1G:1129:C:N4	1:1G:1139:G:H22	1.96	0.64
26:14:315:G:H2'	26:14:316:C:H6	1.63	0.64
26:14:1492:G:H3'	26:14:1493:C:H5'	1.80	0.64
26:14:2147:G:H2'	26:14:2148:G:H4'	1.80	0.64
29:19:33:LEU:HD23	29:19:34:VAL:HG13	1.80	0.64
31:39:89:VAL:HG12	31:39:90:PHE:H	1.62	0.64
1:13:97:U:H2'	1:13:99:C:C5	2.33	0.63
1:13:642:A:N3	8:7E:113:SER:OG	2.31	0.63
1:13:1145:C:H4'	1:13:1146:A:H8	1.62	0.63
3:2E:73:PRO:O	3:2E:76:VAL:HG22	1.98	0.63
7:6E:143:ARG:HD2	24:3K:41:A:O3'	1.98	0.63
26:1H:102:G:OP1	50:K8:7:ARG:NH2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:573:G:O2'	26:1H:574:C:H3'	1.99	0.63
29:11:6:PHE:HE2	29:11:13:ARG:NH2	1.80	0.63
32:41:66:GLN:OE1	32:41:98:ARG:NH1	2.32	0.63
46:G8:61:ILE:HG23	46:G8:63:LYS:HD3	1.78	0.63
46:G8:84:ARG:O	46:G8:85:VAL:HG13	1.98	0.63
7:62:29:LYS:HB3	7:62:105:VAL:HG21	1.80	0.63
18:9A:31:LEU:HD23	18:9A:31:LEU:H	1.63	0.63
26:14:314:A:H2'	26:14:315:G:C8	2.33	0.63
26:14:486:C:HO2'	44:A5:60:ASN:HD22	1.42	0.63
26:14:1252:G:O4'	42:85:33:ARG:HD3	1.98	0.63
36:25:13:ASN:HD21	36:25:97:ARG:H	1.46	0.63
47:D5:3:TYR:O	47:D5:58:VAL:N	2.23	0.63
55:M5:48:PHE:HA	55:M5:49:VAL:HG13	1.79	0.63
7:6E:18:TYR:HD2	7:6E:59:LEU:HD12	1.62	0.63
22:1K:52:G:N2	22:1K:62:C:N3	2.45	0.63
26:1H:1230:C:H2'	26:1H:1231:G:C8	2.33	0.63
26:1H:1999:C:H5''	26:1H:2723:C:O2'	1.98	0.63
31:31:33:LEU:HD13	31:31:112:MET:CE	2.29	0.63
32:41:114:ILE:HG22	32:41:115:ARG:O	1.99	0.63
41:B8:23:ARG:HG3	41:B8:120:ARG:NH1	2.14	0.63
43:D8:21:ARG:CG	43:D8:91:TYR:HE2	2.10	0.63
52:M8:37:SER:O	52:M8:44:THR:OG1	2.14	0.63
1:1G:1493:A:H2'	26:14:1913:A:H61	1.63	0.63
26:14:2572:A:C2	30:29:144:ARG:NH2	2.66	0.63
26:14:2637:U:H5'	30:29:44:TYR:CE1	2.33	0.63
30:29:1:MET:N	30:29:200:GLU:OE2	2.30	0.63
46:C5:73:ARG:NH2	46:C5:82:PRO:O	2.31	0.63
2:1E:212:GLN:NE2	2:1E:234:PRO:HA	2.11	0.63
4:3E:8:VAL:O	4:3E:11:LEU:HG	1.97	0.63
26:1H:639:U:H2'	26:1H:640:C:C6	2.32	0.63
26:1H:1718:G:C2	26:1H:1725:G:C8	2.85	0.63
46:G8:39:VAL:O	46:G8:42:VAL:HG12	1.99	0.63
1:1G:1004:A:N1	1:1G:1023:G:N2	2.47	0.63
7:62:93:PRO:HG2	7:62:94:ARG:HH21	1.62	0.63
47:D5:5:LEU:HD21	47:D5:43:GLU:HB2	1.81	0.63
1:13:591:U:H2'	1:13:592:G:C8	2.33	0.63
1:13:994:A:N7	1:13:1216:G:H4'	2.13	0.63
20:BI:50:GLU:HB2	20:BI:99:LEU:HB3	1.80	0.63
25:4K:24:A:H3'	25:4K:25:A:OP1	1.99	0.63
31:31:101:LEU:O	31:31:106:ARG:NH1	2.32	0.63
35:58:1:MET:HE2	43:D8:13:ARG:H	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:88:32:TYR:HE1	38:88:133:ARG:HD3	1.63	0.63
1:1G:20:U:H2'	1:1G:21:G:O4'	1.98	0.63
1:1G:447:G:N2	1:1G:487:A:H62	1.97	0.63
1:1G:946:A:H61	1:1G:1234:C:H42	1.46	0.63
1:1G:1106:G:H2'	1:1G:1107:C:H6	1.62	0.63
7:62:26:PHE:CE2	7:62:30:ILE:HD11	2.33	0.63
8:72:44:PHE:HA	8:72:79:VAL:HG11	1.80	0.63
1:13:167:G:H2'	1:13:168:G:H8	1.63	0.63
26:1H:1021:A:H8	26:1H:1022:G:H5''	1.64	0.63
33:51:86:GLU:OE2	33:51:165:ALA:HB2	1.96	0.63
41:B8:50:ILE:HD13	41:B8:64:ARG:HB3	1.79	0.63
44:E8:1:MET:HB3	44:E8:64:MET:CE	2.28	0.63
50:K8:3:LEU:HA	50:K8:4:SER:HB3	1.81	0.63
1:1G:260:G:OP2	20:BA:83:ARG:NH1	2.31	0.63
1:1G:1055:A:H62	1:1G:1200:C:N4	1.96	0.63
7:62:136:LYS:CE	7:62:137:LYS:HZ3	2.12	0.63
26:14:981:A:OP2	26:14:982:C:N4	2.29	0.63
29:19:28:GLU:O	29:19:28:GLU:CD	2.40	0.63
1:13:455:C:H42	1:13:477:G:H1	1.44	0.63
26:1H:1231:G:H2'	26:1H:1232:G:C8	2.34	0.63
26:1H:2750:A:H3'	33:51:4:ILE:HD13	1.80	0.63
27:16:80:U:H2'	27:16:81:G:H21	1.62	0.63
40:A8:48:LEU:HD23	40:A8:82:ILE:HD11	1.81	0.63
42:C8:79:PHE:HE1	42:C8:83:LEU:HD22	1.64	0.63
43:D8:79:VAL:CG1	43:D8:81:TYR:HB3	2.27	0.63
50:K8:47:ASN:C	50:K8:49:LYS:H	2.05	0.63
1:1G:1011:G:H22	1:1G:1018:C:N4	1.95	0.63
3:22:44:GLU:HA	3:22:52:LEU:HD11	1.80	0.63
6:52:2:ARG:HD3	6:52:92:LYS:HE3	1.81	0.63
26:14:372:G:OP2	49:F5:69:LYS:NZ	2.29	0.63
26:14:1450:C:H2'	26:14:1451:C:C6	2.34	0.63
34:69:72:LEU:HD11	34:69:107:VAL:HG11	1.81	0.63
34:69:90:GLY:O	34:69:121:LYS:HD2	1.99	0.63
36:25:13:ASN:ND2	36:25:96:THR:HG23	2.09	0.63
37:35:57:THR:HB	37:35:60:MET:HB2	1.79	0.63
47:D5:164:ALA:O	47:D5:165:VAL:HG13	1.99	0.63
55:M5:7:HIS:ND1	55:M5:7:HIS:O	2.32	0.63
1:13:736:C:H2'	1:13:737:A:H8	1.63	0.63
4:3E:47:ARG:HH22	4:3E:49:ARG:HG2	1.64	0.63
5:4E:63:ARG:HA	5:4E:66:MET:HE2	1.81	0.63
8:7E:87:SER:HB2	8:7E:93:VAL:CB	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4I:65:LYS:HG3	13:4I:69:GLU:HB3	1.81	0.63
26:1H:1858:G:H1'	26:1H:1883:G:H22	1.64	0.63
26:1H:1887:C:H2'	26:1H:1888:G:H5'	1.80	0.63
35:58:95:PRO:O	35:58:97:ARG:HB2	1.99	0.63
37:78:60:MET:HA	55:Q8:13:ARG:HH11	1.63	0.63
38:88:137:TYR:HB3	47:H8:76:LEU:HD21	1.80	0.63
40:A8:66:ALA:HB1	40:A8:101:LEU:HB2	1.81	0.63
47:H8:19:ARG:NH1	47:H8:84:GLU:O	2.32	0.63
1:1G:373:A:C2	1:1G:374:A:C8	2.86	0.63
1:1G:991:U:O2'	1:1G:993:G:O4'	2.16	0.63
1:1G:1294:G:H2'	1:1G:1295:G:H8	1.63	0.63
26:14:365:C:OP2	61:14:3530:HOH:O	2.15	0.63
26:14:952:G:OP1	38:45:16:ARG:NH1	2.32	0.63
26:14:1491:G:O4'	29:19:99:ASP:HB3	1.98	0.63
26:14:2068:U:N3	26:14:2430:A:C2	2.61	0.63
26:14:2108:C:N4	26:14:2180:U:O4	2.32	0.63
26:14:2131:G:H5''	26:14:2133:G:H4'	1.81	0.63
26:14:2304:G:N2	26:14:2313:C:H42	1.95	0.63
27:1J:2:C:N4	27:1J:118:G:O6	2.32	0.63
43:95:57:VAL:HG23	43:95:99:ILE:H	1.64	0.63
1:13:1298:C:P	7:6E:114:ARG:HH22	2.21	0.63
7:6E:62:PHE:HA	7:6E:124:LEU:HD21	1.81	0.63
24:3K:3:G:H1	24:3K:70:C:H42	1.44	0.63
26:1H:941:A:H4'	61:1H:3851:HOH:O	1.99	0.63
26:1H:2061:G:OP2	26:1H:2502:G:H5'	1.99	0.63
26:1H:2250:G:C6	38:88:83:MET:HB3	2.33	0.63
42:C8:8:VAL:HG23	42:C8:11:ARG:NH2	2.10	0.63
2:12:58:ILE:HB	2:12:221:LEU:HB2	1.79	0.63
4:32:89:THR:H	5:42:97:GLY:HA3	1.63	0.63
13:4A:44:ARG:HB2	13:4A:46:LYS:HG2	1.79	0.63
26:14:2298:A:H1'	26:14:2321:G:N2	2.13	0.63
26:14:2305:A:C5	32:49:136:ARG:NH1	2.67	0.63
30:29:9:VAL:HG12	41:75:8:LYS:HZ1	1.63	0.63
30:29:54:GLN:CG	30:29:55:ASN:H	2.12	0.63
49:F5:85:LEU:HD13	49:F5:88:LYS:CG	2.22	0.63
1:13:1435:G:H2'	1:13:1436:U:C6	2.34	0.63
1:13:1469:G:H2'	1:13:1470:G:C8	2.34	0.63
15:6I:26:GLU:OE2	15:6I:77:ARG:CD	2.47	0.63
18:9I:53:ARG:HA	18:9I:56:THR:HG23	1.79	0.63
19:AI:25:LYS:HG3	19:AI:27:GLU:HG3	1.81	0.63
26:1H:299:A:H5'	26:1H:300:A:OP2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:342:G:O6	61:1H:3541:HOH:O	2.13	0.63
26:1H:860:U:H1'	26:1H:2268:A:H5'	1.80	0.63
26:1H:2156:G:H3'	26:1H:2157:G:H21	1.62	0.63
31:31:67:GLN:HG3	31:31:67:GLN:O	1.98	0.63
26:14:480:A:H2'	26:14:480:A:N3	2.14	0.63
26:14:2485:G:C5'	38:45:46:GLN:HE21	2.11	0.63
33:59:149:ARG:NH2	33:59:167:GLU:OE2	2.31	0.63
42:85:92:ARG:HG2	43:95:11:GLN:OE1	1.99	0.63
43:95:85:LYS:HB3	43:95:87:HIS:H	1.64	0.63
47:D5:29:TYR:HA	47:D5:34:ASN:HA	1.81	0.63
55:M5:33:ASN:HA	55:M5:36:LYS:HD2	1.81	0.63
1:13:947:G:H2'	1:13:948:C:C6	2.33	0.62
5:4E:101:ILE:O	5:4E:120:THR:OG1	2.13	0.62
7:6E:113:GLU:HB3	7:6E:118:VAL:HG13	1.80	0.62
8:7E:102:ARG:HD3	8:7E:102:ARG:N	2.14	0.62
26:1H:1591:G:H2'	26:1H:1592:C:C6	2.34	0.62
26:1H:1827:C:C2'	26:1H:1828:G:H5'	2.29	0.62
28:71:66:HIS:CE1	28:71:187:ASP:HB3	2.34	0.62
30:21:1:MET:N	30:21:83:ASP:O	2.29	0.62
32:41:104:GLU:HB3	52:M8:23:GLU:OE1	1.99	0.62
4:32:134:ASP:O	4:32:136:PRO:HD3	1.99	0.62
17:8A:87:LYS:C	17:8A:91:ARG:HD2	2.24	0.62
26:14:957:A:C5'	38:45:76:LYS:CE	2.74	0.62
26:14:2485:G:H5''	38:45:46:GLN:NE2	2.11	0.62
31:39:164:ARG:O	31:39:167:ALA:HB3	1.98	0.62
37:35:14:LYS:O	37:35:16:ARG:N	2.32	0.62
15:6I:17:ARG:HA	15:6I:17:ARG:CZ	2.29	0.62
41:B8:2:ASN:O	41:B8:3:ARG:HG2	1.98	0.62
46:G8:97:ARG:O	46:G8:101:LYS:HG3	1.99	0.62
49:J8:93:GLU:OE2	49:J8:94:LEU:CB	2.47	0.62
1:1G:1057:G:H22	1:1G:1204:A:H1'	1.64	0.62
1:1G:1411:C:H2'	1:1G:1412:C:H6	1.64	0.62
1:1G:1414:U:H2'	1:1G:1415:G:C8	2.34	0.62
2:12:54:THR:HA	2:12:57:PHE:CD2	2.35	0.62
7:62:136:LYS:NZ	7:62:137:LYS:NZ	2.45	0.62
20:BA:25:ARG:O	20:BA:29:LYS:HG2	1.99	0.62
26:14:846:C:O2'	26:14:929:G:O6	2.11	0.62
26:14:2472:G:N2	26:14:2477:C:OP1	2.30	0.62
27:1J:3:C:H2'	27:1J:4:C:C6	2.34	0.62
55:M5:40:GLU:HA	55:M5:43:GLN:HB3	1.81	0.62
1:13:1286:A:H2'	1:13:1287:A:H4'	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:100:GLY:O	2:1E:104:ASN:N	2.27	0.62
2:1E:120:ALA:O	2:1E:124:SER:OG	2.17	0.62
26:1H:583:G:OP2	42:C8:10:ARG:HD2	1.99	0.62
26:1H:2577:A:OP1	61:1H:3542:HOH:O	2.16	0.62
38:88:104:PHE:HE2	38:88:125:LEU:HD11	1.64	0.62
46:G8:76:CYS:SG	46:G8:97:ARG:HG3	2.39	0.62
1:1G:963:G:N3	10:1A:55:LYS:NZ	2.48	0.62
26:14:910:A:C5	38:45:13:GLN:HG3	2.33	0.62
1:13:244:U:H4'	1:13:245:C:O5'	1.98	0.62
3:2E:7:PRO:O	3:2E:11:ARG:HG2	1.99	0.62
5:4E:126:ARG:HG3	5:4E:126:ARG:HH11	1.64	0.62
6:5E:1:MET:HE2	6:5E:68:PRO:HD3	1.82	0.62
24:3K:57:G:H22	26:1H:2112:G:H21	1.46	0.62
26:1H:950:G:H2'	26:1H:951:C:C6	2.34	0.62
26:1H:1516:U:H2'	26:1H:1517:G:C8	2.34	0.62
26:1H:2135:A:N6	26:1H:2156:G:O2'	2.28	0.62
31:31:132:VAL:O	31:31:133:ASN:OD1	2.17	0.62
32:41:10:LYS:O	32:41:15:VAL:HG23	1.99	0.62
38:88:59:ARG:C	38:88:61:GLY:H	2.08	0.62
49:J8:89:GLU:O	49:J8:93:GLU:HG3	1.99	0.62
1:1G:280:C:H3'	1:1G:281:G:H5'	1.81	0.62
4:32:189:PRO:HB2	4:32:194:LEU:HD21	1.82	0.62
7:62:27:ILE:HD11	7:62:43:PHE:HD2	1.63	0.62
26:14:1060:U:H4'	26:14:1061:U:H5''	1.81	0.62
26:14:2638:G:OP2	30:29:82:ARG:NH2	2.31	0.62
30:29:10:GLY:N	41:75:8:LYS:HZ1	1.96	0.62
1:13:1305:G:H5'	21:1F:4:GLY:HA3	1.81	0.62
16:7I:79:VAL:HB	16:7I:80:PHE:CE2	2.34	0.62
26:1H:195:A:N6	26:1H:198:C:OP2	2.32	0.62
26:1H:330:A:O2'	26:1H:331:A:H8	1.82	0.62
26:1H:2023:G:H5'	26:1H:2617:C:H4'	1.81	0.62
35:58:35:ARG:O	35:58:42:TRP:HZ3	1.82	0.62
1:1G:12:U:H4'	1:1G:526:C:O2'	2.00	0.62
1:1G:73:G:N2	1:1G:97:U:O2	2.31	0.62
1:1G:439:A:H2'	1:1G:440:A:O4'	1.98	0.62
1:1G:980:C:H5'	1:1G:981:U:C5	2.34	0.62
1:1G:1055:A:H8	1:1G:1055:A:OP2	1.83	0.62
3:22:18:TRP:CD1	14:5A:54:PRO:HA	2.34	0.62
4:32:119:GLN:HG3	4:32:123:HIS:HE1	1.64	0.62
13:4A:34:LEU:HD23	13:4A:34:LEU:H	1.63	0.62
26:14:162:U:H1'	26:14:171:G:C2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1047:G:N2	26:14:1111:A:H61	1.97	0.62
26:14:1316:U:H2'	26:14:1317:A:C8	2.35	0.62
26:14:1419:A:H2'	26:14:1421:G:N7	2.14	0.62
26:14:1859:A:N6	26:14:1883:G:O2'	2.32	0.62
33:59:67:LEU:O	33:59:71:LEU:HD13	2.00	0.62
41:75:13:ARG:H	41:75:13:ARG:HH11	1.48	0.62
1:13:735:C:H2'	1:13:736:C:H6	1.65	0.62
2:1E:31:TYR:HB3	2:1E:42:ILE:HD11	1.79	0.62
26:1H:784:A:C6	29:11:229:VAL:HG11	2.35	0.62
26:1H:818:G:H5'	26:1H:839:U:OP1	1.99	0.62
26:1H:1243:G:O2'	37:78:7:ARG:NH2	2.32	0.62
26:1H:1311:G:C2	45:F8:60:ARG:NH1	2.67	0.62
47:H8:28:MET:HB3	47:H8:35:ARG:HB2	1.80	0.62
1:1G:429:U:H3'	4:32:9:CYS:SG	2.39	0.62
1:1G:857:C:H3'	1:1G:858:G:C8	2.34	0.62
1:1G:1298:C:H4'	1:1G:1299:A:C4	2.34	0.62
25:4L:12:A:O2'	25:4L:13:A:O5'	2.12	0.62
26:14:486:C:O2'	44:A5:60:ASN:ND2	2.23	0.62
26:14:623:G:H2'	26:14:624:C:C6	2.34	0.62
26:14:2564:A:H5''	26:14:2565:A:OP2	1.99	0.62
26:14:2712(A):A:H5''	26:14:2713:A:OP2	1.99	0.62
30:29:55:ASN:HB2	30:29:58:ARG:HH21	1.65	0.62
34:69:129:THR:HG22	34:69:137:PRO:HB3	1.81	0.62
39:55:18:LEU:HD22	39:55:22:ARG:HD2	1.81	0.62
1:13:838:G:O6	1:13:848:C:N4	2.31	0.62
1:13:1006:C:O2	1:13:1023:G:N2	2.32	0.62
1:13:1226:C:H4'	19:AI:80:TYR:OH	2.00	0.62
4:3E:172:PRO:HB2	4:3E:187:ARG:HH12	1.65	0.62
26:1H:1359:A:H5'	26:1H:1359:A:N3	2.15	0.62
26:1H:1794:U:H2'	26:1H:1795:C:H6	1.63	0.62
27:16:42:C:O2'	32:41:67:LYS:O	2.16	0.62
38:88:54:MET:HE3	38:88:64:ILE:HD13	1.81	0.62
38:88:139:GLU:HA	38:88:140:ALA:O	1.99	0.62
1:1G:458:C:H2'	1:1G:464:G:H8	1.63	0.62
5:42:80:ILE:HA	8:72:104:ARG:HH12	1.64	0.62
6:52:52:ILE:HD11	18:9A:77:GLY:HA3	1.80	0.62
26:14:141:A:H8	26:14:1595:G:H21	1.44	0.62
26:14:878:A:H5''	26:14:900:A:N6	2.14	0.62
26:14:1110:G:H2'	26:14:1111:A:C8	2.35	0.62
26:14:1639:U:H4'	26:14:2699:C:H4'	1.82	0.62
34:69:124:GLY:H	34:69:142:VAL:HG22	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:591:U:H2'	1:13:592:G:H8	1.64	0.62
1:13:767:A:H2'	1:13:768:A:O4'	1.99	0.62
1:13:1296:C:OP1	13:4I:44:ARG:NH2	2.33	0.62
1:13:1318:A:H1'	19:AI:37:ARG:HE	1.64	0.62
6:5E:2:ARG:HD3	6:5E:92:LYS:HE2	1.82	0.62
26:1H:270(C):C:H42	26:1H:270(W):G:H1	1.47	0.62
26:1H:1799:G:O2'	26:1H:1800:C:OP2	2.11	0.62
26:1H:2331:G:O3'	48:I8:43:THR:HG22	2.00	0.62
1:1G:520:A:OP2	12:3A:51:ALA:HB1	2.00	0.62
1:1G:589:C:H5''	8:72:29:SER:HB2	1.82	0.62
1:1G:779:C:O2'	1:1G:780:A:H5'	2.00	0.62
1:1G:929:G:H1	1:1G:1388:C:H42	1.47	0.62
2:12:22:LYS:HB3	2:12:24:TRP:CE2	2.35	0.62
26:14:527:C:N4	26:14:2779:U:OP1	2.33	0.62
26:14:745:G:H5''	26:14:746:A:OP2	2.00	0.62
30:29:1:MET:CG	30:29:200:GLU:OE2	2.48	0.62
32:49:138:GLN:HB3	32:49:155:MET:HE1	1.82	0.62
34:69:33:ARG:HB3	34:69:35:LEU:HG	1.82	0.62
51:H5:37:LEU:HD13	51:H5:43:ILE:HG21	1.81	0.62
1:13:1104:G:OP1	2:1E:144:ARG:NH2	2.27	0.62
5:4E:38:GLN:O	5:4E:38:GLN:HG3	1.99	0.62
8:7E:81:HIS:N	8:7E:138:TRP:O	2.31	0.62
26:1H:1183:G:O2'	51:L8:29:ARG:NH1	2.32	0.62
26:1H:1416:G:O2'	26:1H:1417:C:O5'	2.18	0.62
26:1H:1516:U:H2'	26:1H:1517:G:H8	1.64	0.62
26:1H:2864:G:H2'	26:1H:2865:U:C6	2.35	0.62
27:16:55:U:H2'	27:16:56:G:C8	2.35	0.62
47:H8:3:TYR:O	47:H8:58:VAL:HG23	1.99	0.62
47:H8:126:VAL:HA	47:H8:164:ALA:H	1.65	0.62
50:K8:5:GLU:C	50:K8:5:GLU:OE2	2.43	0.62
1:1G:857:C:H3'	1:1G:858:G:H8	1.65	0.62
1:1G:1335:C:OP1	1:1G:1337:G:N2	2.32	0.62
3:22:84:ILE:O	3:22:88:ARG:NH2	2.33	0.62
7:62:116:ALA:O	7:62:120:ILE:HG12	2.00	0.62
26:14:1225:C:O3'	43:95:85:LYS:HA	2.00	0.62
26:14:1826:G:H2'	26:14:1827:C:C6	2.35	0.62
31:39:133:ASN:HA	31:39:162:LEU:HD23	1.81	0.62
32:49:4:ASP:HA	32:49:6:ALA:HA	1.81	0.62
1:13:58:C:O2'	1:13:388:G:N7	2.27	0.62
26:1H:871:U:OP1	38:88:5:ARG:HG3	1.99	0.62
26:1H:1111:A:H2	26:1H:1112:G:H1'	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2054:A:H5''	26:1H:2055:C:O5'	2.00	0.62
26:1H:2751:G:OP2	33:51:4:ILE:HD13	1.99	0.62
1:1G:865:A:O5'	1:1G:865:A:H8	1.83	0.62
10:1A:34:VAL:HG13	10:1A:74:ILE:HD13	1.82	0.62
13:4A:93:ARG:HG3	13:4A:94:ARG:HD2	1.82	0.62
57:3L:65:C:H2'	57:3L:66:A:C8	2.35	0.62
26:14:2295:C:H5	40:65:13:ARG:HH22	1.48	0.62
31:39:113:ALA:HB1	31:39:186:ILE:HG21	1.81	0.62
32:49:118:ARG:HG3	32:49:181:ARG:HD3	1.82	0.62
49:F5:89:GLU:O	49:F5:93:GLU:HB2	1.98	0.62
54:L5:29:LYS:O	54:L5:33:ARG:HG2	2.00	0.62
1:13:266:G:H5''	1:13:267:C:H5	1.63	0.61
1:13:668:G:O2'	15:6I:46:HIS:HB3	1.99	0.61
1:13:1139:G:H4'	1:13:1140:C:H5'	1.81	0.61
2:1E:16:HIS:CE1	2:1E:210:SER:HB2	2.34	0.61
12:3I:53:ARG:HG3	12:3I:53:ARG:HH11	1.65	0.61
14:5I:48:ALA:HB2	14:5I:53:LEU:HD12	1.81	0.61
26:1H:70:G:H21	26:1H:71:A:N6	1.97	0.61
26:1H:805:G:OP1	61:1H:3546:HOH:O	2.16	0.61
26:1H:1328:G:H2'	26:1H:1330:C:C4	2.35	0.61
26:1H:2315:G:H21	32:41:128:ARG:NH2	1.92	0.61
26:1H:2836:U:H2'	26:1H:2837:G:C8	2.35	0.61
28:7I:5:LYS:HA	28:7I:8:ARG:HB2	1.81	0.61
41:B8:111:ARG:O	41:B8:112:ARG:HB3	1.99	0.61
1:1G:1238:A:H62	1:1G:1299:A:H61	1.47	0.61
26:14:315:G:H2'	26:14:316:C:C6	2.35	0.61
26:14:754:C:H2'	26:14:755:C:C6	2.35	0.61
26:14:1161:C:H1'	43:95:8:GLY:O	2.00	0.61
26:14:1447:G:H1'	26:14:1545(A):A:H1'	1.82	0.61
26:14:2387:U:C1'	48:E5:41:ARG:HE	2.13	0.61
26:14:2540:C:O2'	26:14:2740:A:N3	2.33	0.61
26:14:2652:C:H42	26:14:2668:G:H1	1.48	0.61
32:49:120:LEU:HB2	32:49:180:PHE:HA	1.82	0.61
36:25:119:PRO:HB2	41:75:68:TYR:CE2	2.35	0.61
40:65:24:LEU:HB2	40:65:85:VAL:HG12	1.82	0.61
1:13:477:G:H2'	1:13:478:A:C8	2.35	0.61
4:3E:83:SER:HA	4:3E:89:THR:HG22	1.82	0.61
19:AI:51:VAL:O	19:AI:57:HIS:HA	1.99	0.61
24:3K:34:U:O5'	24:3K:34:U:H6	1.84	0.61
26:1H:458:G:O2'	26:1H:469:G:O6	2.16	0.61
26:1H:2845:G:N2	26:1H:2871:C:O2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:86:GLU:HG3	33:51:87:LEU:N	2.14	0.61
33:51:121:ILE:HG13	33:51:144:VAL:HG21	1.82	0.61
55:Q8:52:LYS:CB	55:Q8:53:PRO:HD2	2.29	0.61
1:1G:1208:C:H2'	1:1G:1209:C:O4'	2.00	0.61
1:1G:1256:A:OP2	3:22:27:LYS:NZ	2.30	0.61
4:32:107:ARG:HD3	4:32:173:TRP:HZ2	1.63	0.61
26:14:1138:G:C4	26:14:1139:G:H1'	2.34	0.61
26:14:1399:C:H2'	26:14:1400:G:C8	2.34	0.61
26:14:2331:G:O3'	48:E5:43:THR:HG22	2.01	0.61
27:1J:55:U:HO2'	32:49:29:TRP:CD1	2.17	0.61
38:45:22:LYS:N	38:45:23:GLY:HA3	2.15	0.61
48:E5:27:GLU:OE1	48:E5:69:PHE:N	2.30	0.61
1:13:1178:G:H21	1:13:1181:G:H8	1.47	0.61
1:13:1266:G:N2	1:13:1270:C:N3	2.48	0.61
3:2E:77:ILE:HA	3:2E:84:ILE:HD12	1.82	0.61
4:3E:67:ILE:HD13	4:3E:196:LEU:HD22	1.83	0.61
26:1H:2306:C:H3'	26:1H:2307:G:C5'	2.30	0.61
31:31:59:TYR:CD1	31:31:78:ILE:HD11	2.35	0.61
1:1G:36:C:OP1	12:3A:123:LYS:NZ	2.21	0.61
1:1G:867:G:H2'	1:1G:868:C:H6	1.65	0.61
1:1G:1188:A:H5''	14:5A:58:LYS:NZ	2.15	0.61
1:1G:1324:A:H4'	1:1G:1362:C:H4'	1.80	0.61
2:12:42:ILE:HD11	2:12:202:PRO:HB2	1.82	0.61
13:4A:81:LEU:HG	13:4A:89:GLY:HA2	1.81	0.61
18:9A:53:ARG:HH21	18:9A:60:ALA:H	1.46	0.61
26:14:1814:G:H5''	29:19:54:ARG:NH1	2.15	0.61
26:14:2522:U:O2'	26:14:2647:U:H5''	1.99	0.61
31:39:129:PHE:HB3	31:39:131:GLY:O	2.01	0.61
32:49:66:GLN:NE2	32:49:93:THR:O	2.33	0.61
34:69:130:TYR:HB3	34:69:136:VAL:HG13	1.81	0.61
37:35:13:ASN:O	37:35:15:ARG:N	2.32	0.61
44:A5:59:VAL:HA	44:A5:64:MET:H	1.66	0.61
48:E5:50:ASN:O	48:E5:62:LEU:HB2	2.00	0.61
22:1K:18:G:N2	22:1K:57:G:N3	2.47	0.61
26:1H:1543:A:H3'	26:1H:1543:A:OP2	2.01	0.61
26:1H:1797:C:O2'	29:11:259:THR:OG1	2.16	0.61
39:98:52:ILE:O	39:98:55:ALA:N	2.33	0.61
53:N8:39:MET:O	53:N8:40:LYS:HD2	2.00	0.61
1:1G:1203:C:H2'	1:1G:1204:A:H8	1.66	0.61
13:4A:66:LEU:HA	13:4A:70:LEU:HB2	1.81	0.61
26:14:1072:C:N4	26:14:1098:A:OP2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1992:G:N2	26:14:1996:C:O2	2.30	0.61
35:15:71:ILE:HD12	35:15:71:ILE:O	2.00	0.61
1:13:7:G:H5'	1:13:298:A:O4'	2.00	0.61
1:13:131:C:H2'	1:13:132:C:C6	2.34	0.61
1:13:403:C:OP1	4:3E:137:SER:OG	2.18	0.61
1:13:1152:A:H5'	10:1I:13:HIS:CG	2.34	0.61
23:2K:54:G:H2'	23:2K:55:5MU:H6	1.65	0.61
26:1H:1378:A:OP1	54:P8:10:ARG:NH2	2.34	0.61
26:1H:1932:A:H2'	26:1H:1933:G:O4'	1.99	0.61
33:51:27:LYS:HA	33:51:32:GLU:HA	1.83	0.61
50:K8:52:ASP:O	50:K8:56:GLN:HB2	2.01	0.61
1:1G:1014:A:H5'	19:AA:15:LEU:HD11	1.83	0.61
1:1G:1089:G:C2	1:1G:1090:U:H1'	2.35	0.61
2:12:128:GLU:O	2:12:130:ARG:HG2	2.00	0.61
3:22:199:LYS:HB3	3:22:201:TYR:HE1	1.66	0.61
26:14:138:G:H5''	26:14:139:G:OP2	1.99	0.61
26:14:957:A:N6	26:14:2459:A:C8	2.69	0.61
26:14:957:A:OP1	38:45:76:LYS:CD	2.48	0.61
26:14:1815:A:P	29:19:54:ARG:HH22	2.22	0.61
26:14:2720:U:H3	26:14:2873:A:H2	1.48	0.61
35:15:73:THR:HG22	35:15:84:LYS:HB3	1.83	0.61
36:25:4:PRO:O	36:25:5:GLN:HB2	2.00	0.61
39:55:18:LEU:HD22	39:55:22:ARG:CD	2.31	0.61
50:G5:45:SER:O	50:G5:45:SER:OG	2.16	0.61
1:13:8:A:H5'	5:4E:101:ILE:HG22	1.82	0.61
1:13:1113:C:H2'	1:13:1114:C:H6	1.64	0.61
1:13:1347:G:O6	9:8E:10:ARG:NH2	2.29	0.61
4:3E:7:PRO:HB2	4:3E:10:ARG:HD2	1.82	0.61
15:6I:7:GLU:OE1	15:6I:38:ARG:NH2	2.33	0.61
26:1H:602:G:O2'	26:1H:604:G:O2'	2.03	0.61
26:1H:1443:G:N2	26:1H:1549:C:N3	2.49	0.61
26:1H:2679:A:H4'	30:21:165:VAL:HG11	1.83	0.61
37:78:97:PRO:HB3	37:78:112:LEU:HD12	1.82	0.61
41:B8:108:ARG:HA	41:B8:111:ARG:NE	2.15	0.61
1:1G:668:G:O2'	15:6A:46:HIS:HB3	2.00	0.61
1:1G:1111:A:H2'	1:1G:1112:C:C6	2.36	0.61
1:1G:1203:C:H2'	1:1G:1204:A:O4'	2.01	0.61
57:3L:66:A:H2'	57:3L:67:C:O4'	2.01	0.61
26:14:71:A:H2	45:B5:31:HIS:NE2	1.96	0.61
26:14:630:G:N2	26:14:633:A:OP2	2.32	0.61
26:14:1757:U:H3	26:14:1762:A:H2	1.43	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:738:C:H2'	1:13:739:C:C6	2.36	0.61
1:13:757:U:H5''	1:13:822:C:O2	2.00	0.61
1:13:1292:U:H2'	1:13:1293:G:C8	2.35	0.61
13:4I:15:VAL:O	13:4I:19:LEU:HD23	1.99	0.61
14:5I:6:LEU:HD13	14:5I:23:ARG:HH22	1.65	0.61
14:5I:53:LEU:HB3	14:5I:56:VAL:HG21	1.81	0.61
22:1K:6:G:N7	22:1K:68:G:N1	2.49	0.61
26:1H:907:U:H4'	38:88:101:ARG:HH22	1.65	0.61
27:16:15:A:H3'	27:16:16:G:H5'	1.83	0.61
30:21:105:THR:HG1	30:21:199:ARG:NH2	1.92	0.61
37:78:68:GLN:OE1	37:78:68:GLN:HA	1.98	0.61
53:N8:39:MET:C	53:N8:40:LYS:HD2	2.25	0.61
4:32:101:LEU:HD23	4:32:121:VAL:HG13	1.81	0.61
26:14:1027:A:C2	26:14:2488:A:H5'	2.36	0.61
26:14:1225:C:H4'	43:95:85:LYS:HA	1.82	0.61
26:14:1939:U:OP1	26:14:2604:U:O2'	2.17	0.61
26:14:2464:C:H42	26:14:2486:G:H1	1.49	0.61
41:75:98:LYS:N	41:75:98:LYS:HD2	2.15	0.61
1:13:537:G:H5''	12:3I:113:ARG:NH1	2.16	0.61
5:4E:8:GLU:OE2	5:4E:63:ARG:NH2	2.33	0.61
6:5E:15:ASP:CG	6:5E:18:GLN:H	2.08	0.61
15:6I:37:ASN:O	15:6I:41:GLU:OE2	2.19	0.61
17:8I:9:VAL:HG21	17:8I:84:LEU:HD12	1.82	0.61
26:1H:1018:C:O2'	26:1H:1019:U:H5'	2.01	0.61
26:1H:1417:C:H2'	26:1H:1418:G:O4'	2.00	0.61
26:1H:2577:A:C5'	26:1H:2578:G:H5'	2.26	0.61
36:68:47:ILE:HG13	36:68:48:PRO:HD2	1.82	0.61
47:H8:136:PHE:C	47:H8:137:ILE:HD12	2.26	0.61
52:M8:11:PRO:HA	52:M8:25:TYR:HA	1.83	0.61
2:12:162:ILE:HD11	2:12:184:VAL:HG22	1.82	0.61
3:22:129:ALA:O	3:22:133:ALA:N	2.28	0.61
12:3A:70:ILE:HD13	12:3A:77:LEU:HD12	1.82	0.61
19:AA:15:LEU:HD22	19:AA:18:LYS:HE3	1.81	0.61
26:14:1991:U:H2'	26:14:1992:G:H5''	1.83	0.61
26:14:2052:G:O4'	30:29:142:GLY:HA3	2.00	0.61
49:F5:11:ARG:HB3	49:F5:11:ARG:HH11	1.65	0.61
1:13:279:A:H4'	1:13:280:C:H5''	1.82	0.61
11:2I:19:ALA:HB2	11:2I:32:ILE:HG23	1.82	0.61
23:2K:21:U:O2'	23:2K:22:A:H5'	2.01	0.61
26:1H:1406:U:H2'	26:1H:1407:C:C6	2.36	0.61
26:1H:1466:G:N2	26:1H:1547:C:N3	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2367:G:H2'	26:1H:2368:C:H6	1.66	0.61
33:51:155:SER:HB2	33:51:156:ALA:O	2.01	0.61
34:61:40:THR:O	34:61:44:LEU:HB2	2.01	0.61
1:1G:1081:G:OP2	5:42:47:LYS:NZ	2.31	0.61
4:32:171:GLY:HA3	4:32:173:TRP:CZ3	2.36	0.61
12:3A:24:VAL:HG12	12:3A:26:ALA:HB2	1.83	0.61
12:3A:82:VAL:HG23	12:3A:105:TYR:HB3	1.81	0.61
26:14:118:A:N3	26:14:178:G:H1'	2.14	0.61
26:14:873:G:H1'	38:45:29:PHE:HE2	1.66	0.61
26:14:2295:C:H41	40:65:13:ARG:NH2	1.98	0.61
26:14:2307:G:O2'	26:14:2308:G:OP2	2.18	0.61
26:14:2619:C:OP1	30:29:152:LYS:NZ	2.34	0.61
47:D5:79:ARG:HB2	47:D5:80:ARG:HD2	1.83	0.61
1:13:1305:G:N2	1:13:1331:G:H2'	2.16	0.61
13:4I:66:LEU:O	13:4I:70:LEU:N	2.34	0.61
17:8I:89:LEU:HA	17:8I:92:ARG:HB3	1.82	0.61
26:1H:270(I):G:N2	26:1H:270(R):G:H1'	2.16	0.61
26:1H:483:A:H1'	46:G8:59:GLY:O	2.01	0.61
26:1H:934:G:H2'	26:1H:935:C:H6	1.66	0.61
41:B8:57:PHE:HE1	41:B8:79:HIS:HB2	1.66	0.61
1:1G:589:C:N4	1:1G:650:G:H1	1.93	0.61
2:12:70:PHE:N	2:12:92:TYR:HA	2.16	0.61
7:62:16:LEU:HD11	9:82:42:ARG:HA	1.82	0.61
11:2A:96:ARG:HA	11:2A:99:GLN:HB2	1.83	0.61
57:3L:43:U:H2'	57:3L:44:U:C5	2.36	0.61
26:14:821:A:O2'	26:14:946:G:OP2	2.19	0.61
26:14:995:C:C5	42:85:57:PHE:HE2	2.19	0.61
26:14:2364:C:H4'	48:E5:56:ASP:OD2	2.01	0.61
26:14:2439:A:H5'	26:14:2439:A:C8	2.36	0.61
26:14:2495:G:H5''	38:45:81:VAL:HG12	1.83	0.61
36:25:88:ASN:HB3	36:25:94:ARG:HD3	1.82	0.61
38:45:12:GLN:HE21	38:45:72:LYS:HG3	1.65	0.61
1:13:192:U:H2'	1:13:193:C:C6	2.36	0.60
1:13:1137:C:H1'	1:13:1138:G:C2	2.36	0.60
4:3E:187:ARG:HH22	4:3E:193:ASP:CG	2.09	0.60
8:7E:9:MET:SD	8:7E:32:LYS:HG2	2.41	0.60
24:3K:76:A:H8	26:1H:2394:C:N4	1.99	0.60
26:1H:780:G:H21	26:1H:783:A:N6	1.98	0.60
26:1H:1026:U:O2'	26:1H:1027:A:H5''	2.00	0.60
26:1H:1678:G:H22	26:1H:1989:G:H22	1.48	0.60
26:1H:1806:C:O2'	29:11:46:GLN:OE1	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:G8:30:VAL:HG12	46:G8:32:PRO:HD3	1.81	0.60
1:1G:559:A:H4'	1:1G:560:U:H5''	1.83	0.60
1:1G:722:A:H5''	1:1G:723:U:OP2	2.01	0.60
19:AA:63:THR:HG21	19:AA:74:PHE:HE2	1.65	0.60
26:14:71:A:H5'	26:14:71:A:H8	1.62	0.60
26:14:335:C:H4'	46:C5:73:ARG:HD2	1.83	0.60
26:14:1036:G:H8	26:14:1036:G:O5'	1.83	0.60
26:14:2414:G:H21	37:35:67:MET:CE	2.08	0.60
44:A5:33:ARG:NE	44:A5:52:GLU:OE2	2.30	0.60
50:G5:50:ILE:HD12	50:G5:51:ARG:N	2.10	0.60
1:13:136:C:H4'	16:7I:65:GLN:NE2	2.17	0.60
2:1E:5:ILE:HD13	2:1E:6:THR:HG23	1.82	0.60
3:2E:108:ASN:HB3	3:2E:111:LEU:HB2	1.83	0.60
22:1K:14:A:H62	22:1K:22:G:H21	1.49	0.60
26:1H:1340:U:H4'	26:1H:1341:U:OP2	2.00	0.60
26:1H:1433:U:O2	26:1H:1561:G:C2	2.54	0.60
32:41:115:ARG:HH21	32:41:137:GLU:CD	2.10	0.60
33:51:56:SER:HB3	33:51:61:HIS:HD1	1.64	0.60
37:78:121:LYS:HE2	37:78:123:LEU:HD21	1.83	0.60
50:K8:16:LEU:HD23	50:K8:16:LEU:O	2.00	0.60
55:Q8:37:SER:O	55:Q8:40:GLU:N	2.33	0.60
1:1G:1152:A:H2'	1:1G:1153:C:C6	2.37	0.60
26:14:1264:G:OP1	53:J5:19:ARG:NH2	2.31	0.60
26:14:2880:C:H1'	39:55:92:GLY:HA3	1.81	0.60
27:1J:46:A:H2'	27:1J:47:C:C6	2.36	0.60
30:29:1:MET:CB	30:29:200:GLU:OE2	2.48	0.60
36:25:71:ARG:HE	36:25:105:GLU:CD	2.09	0.60
1:13:1171:G:H2'	1:13:1172:C:H6	1.66	0.60
23:2K:29:C:H2'	23:2K:30:G:H8	1.67	0.60
26:1H:503:A:H4'	26:1H:504:U:H5''	1.81	0.60
26:1H:1194:A:H8	26:1H:1194:A:OP2	1.84	0.60
26:1H:1332:G:H21	26:1H:1610:A:H8	1.49	0.60
26:1H:2820:A:O2'	26:1H:2821:A:OP1	2.18	0.60
29:11:35:LYS:HB2	29:11:62:TYR:O	2.01	0.60
46:G8:94:LYS:HG3	46:G8:95:LYS:N	2.16	0.60
1:1G:440:A:H3'	1:1G:442:C:C6	2.37	0.60
2:12:72:GLY:HA2	2:12:165:VAL:HG11	1.83	0.60
12:3A:33:ARG:H	12:3A:85:ILE:HG22	1.66	0.60
18:9A:44:LEU:HD11	18:9A:70:ILE:HG21	1.83	0.60
26:14:579:G:H2'	26:14:580:C:C6	2.35	0.60
26:14:854:G:H2'	26:14:855:G:C8	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1355:G:O2'	26:14:1356:G:H5'	2.01	0.60
35:15:95:PRO:O	35:15:98:VAL:HG22	2.01	0.60
47:D5:124:ILE:HD11	47:D5:165:VAL:HG21	1.82	0.60
51:H5:18:ASP:HB2	51:H5:49:LYS:HE3	1.83	0.60
1:13:157:G:N2	1:13:165:C:O2	2.35	0.60
1:13:1068:G:N2	1:13:1191:A:N3	2.47	0.60
2:1E:115:LEU:HD13	2:1E:145:LEU:HB2	1.84	0.60
26:1H:1997:G:H5'	30:21:117:MET:HE2	1.83	0.60
49:J8:93:GLU:OE2	49:J8:94:LEU:HD12	2.02	0.60
1:1G:1004:A:C2	1:1G:1006:C:H1'	2.36	0.60
7:62:126:ASP:HB3	7:62:131:LYS:O	2.01	0.60
20:BA:49:ALA:O	20:BA:100:ILE:HG21	2.02	0.60
26:14:597:U:H2'	26:14:598:G:C8	2.36	0.60
26:14:2632:A:HO2'	26:14:2811:G:HO2'	1.37	0.60
26:14:2695:C:H2'	26:14:2696:U:C6	2.36	0.60
26:14:2893:G:O2'	26:14:2894:G:OP2	2.19	0.60
27:1J:14:U:OP2	27:1J:70:C:O2'	2.19	0.60
8:7E:98:LYS:H	8:7E:98:LYS:HD2	1.67	0.60
14:5I:6:LEU:HB3	14:5I:23:ARG:HH22	1.67	0.60
22:1K:76:A:H8	26:1H:2583:G:N2	1.92	0.60
26:1H:1111:A:C2	26:1H:1112:G:H1'	2.36	0.60
26:1H:1221:C:H2'	26:1H:1222:C:H6	1.66	0.60
34:61:92:VAL:HG23	34:61:96:ASP:HB2	1.82	0.60
35:58:131:GLN:OE1	35:58:132:ALA:N	2.34	0.60
38:88:20:ALA:HA	38:88:98:LYS:HB3	1.82	0.60
40:A8:20:ARG:NH2	48:I8:51:VAL:O	2.34	0.60
1:1G:1309:G:OP2	13:4A:99:ARG:NH2	2.28	0.60
1:1G:1331:G:OP1	1:1G:1331:G:H4'	2.01	0.60
2:12:49:GLU:N	2:12:49:GLU:OE2	2.35	0.60
20:BA:56:MET:HG2	20:BA:84:LEU:HD11	1.81	0.60
29:19:246:PRO:CD	29:19:255:LYS:NZ	2.52	0.60
32:49:97:ASP:HA	32:49:100:TRP:HB2	1.83	0.60
42:85:106:PHE:O	42:85:109:LEU:N	2.32	0.60
48:E5:34:GLY:HA2	48:E5:61:ALA:O	2.02	0.60
1:13:1117:G:H5''	9:8E:104:ARG:NH1	2.17	0.60
2:1E:96:ARG:CZ	2:1E:96:ARG:H	2.15	0.60
3:2E:35:GLU:OE1	3:2E:97:LYS:NZ	2.33	0.60
5:4E:24:ARG:HG3	5:4E:26:PHE:HE1	1.66	0.60
26:1H:1607:C:H4'	26:1H:1608:A:O5'	2.02	0.60
26:1H:1678:G:N2	26:1H:1989:G:H22	2.00	0.60
28:71:29:VAL:HG13	28:71:30:LYS:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:10:PRO:HD2	33:51:50:VAL:H	1.66	0.60
2:12:82:ARG:HA	2:12:85:ALA:HB3	1.84	0.60
6:52:77:ARG:HD3	6:52:78:GLU:N	2.16	0.60
13:4A:59:TYR:CD2	13:4A:60:VAL:HG13	2.37	0.60
16:7A:51:VAL:HG12	16:7A:53:VAL:HG22	1.84	0.60
20:BA:64:ASP:OD2	20:BA:81:LYS:NZ	2.34	0.60
57:3L:1:G:H1	57:3L:72:C:H42	1.50	0.60
57:3L:61:C:N4	57:3L:62:C:H41	2.00	0.60
25:4L:12:A:HO2'	25:4L:13:A:P	2.24	0.60
26:14:96:G:H4'	50:G5:48:HIS:ND1	2.16	0.60
26:14:617:G:OP1	31:39:40:GLN:NE2	2.34	0.60
26:14:814:C:O3'	43:95:84:LYS:NZ	2.31	0.60
26:14:995:C:O2	35:15:3:THR:OG1	2.18	0.60
26:14:2359:C:H2'	26:14:2360:A:O4'	2.02	0.60
29:19:31:LYS:HZ2	29:19:33:LEU:HB2	1.67	0.60
32:49:105:LYS:HG3	32:49:106:LEU:CD1	2.31	0.60
53:J5:37:LYS:C	53:J5:37:LYS:HD3	2.27	0.60
1:13:108:G:OP2	1:13:326:G:N1	2.26	0.60
1:13:328:C:H4'	1:13:329:A:H5'	1.84	0.60
1:13:1060:C:C5	3:2E:2:GLY:HA3	2.37	0.60
5:4E:51:VAL:O	5:4E:55:VAL:HG23	2.02	0.60
9:8E:32:ASP:OD1	9:8E:33:PHE:N	2.35	0.60
23:2K:62:C:H2'	23:2K:63:C:H6	1.67	0.60
26:1H:1140:C:OP1	35:58:23:LEU:HB3	2.02	0.60
26:1H:1705:G:O2'	26:1H:1706:U:H5'	2.01	0.60
26:1H:2136:C:H2'	26:1H:2137:C:C6	2.36	0.60
26:1H:2400:G:H2'	26:1H:2401:U:H6	1.66	0.60
26:1H:2695:C:H2'	26:1H:2696:U:H6	1.66	0.60
31:31:155:LEU:HB2	31:31:189:THR:HG21	1.83	0.60
34:61:1:MET:C	34:61:20:ASP:HB2	2.27	0.60
38:88:35:VAL:HG13	38:88:130:LYS:HB3	1.82	0.60
46:G8:17:SER:OG	46:G8:71:LYS:HE3	2.00	0.60
1:1G:1243:C:OP2	21:1B:10:ARG:CZ	2.50	0.60
4:32:162:LEU:HD13	4:32:178:VAL:HG22	1.83	0.60
26:14:433:C:C4	26:14:434:U:O4	2.54	0.60
26:14:2136:C:H2'	26:14:2137:C:C6	2.36	0.60
26:14:2762:G:H5'	26:14:2763:G:OP2	2.00	0.60
34:69:21:VAL:HG21	34:69:25:TYR:HD2	1.66	0.60
1:13:64:G:H3'	1:13:65:U:H5'	1.84	0.60
1:13:359:U:H2'	1:13:360:A:C8	2.37	0.60
1:13:457:C:O2	1:13:476:G:O2'	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1263:C:N3	1:13:1272:G:N1	2.33	0.60
9:8E:45:ALA:O	9:8E:78:LYS:NZ	2.35	0.60
26:1H:547:A:H2'	26:1H:548:A:C8	2.37	0.60
26:1H:1971:A:C5	29:11:241:PRO:HD3	2.37	0.60
26:1H:2105:C:H2'	26:1H:2106:G:H8	1.65	0.60
26:1H:2172:U:H5'	26:1H:2173:A:OP2	2.01	0.60
28:71:49:ILE:HD13	28:71:56:GLN:O	2.01	0.60
5:42:90:VAL:HG23	5:42:121:LYS:HB3	1.83	0.60
26:14:387:U:H4'	26:14:388:G:O5'	2.00	0.60
35:15:10:GLU:HG2	35:15:11:PRO:HD2	1.84	0.60
40:65:31:SER:O	40:65:97:ARG:NH1	2.31	0.60
44:A5:88:ARG:NH1	44:A5:94:ASP:OD2	2.35	0.60
1:13:563:A:N7	1:13:567:G:H1'	2.17	0.60
2:1E:156:LYS:N	2:1E:156:LYS:HE2	2.17	0.60
2:1E:189:ASP:CG	2:1E:205:ASP:CG	2.65	0.60
5:4E:43:LEU:HD13	5:4E:109:ILE:HD11	1.84	0.60
15:6I:56:LEU:HA	15:6I:59:MET:HE2	1.83	0.60
16:7I:74:LEU:HB3	16:7I:79:VAL:HG21	1.82	0.60
33:51:10:PRO:O	33:51:11:VAL:HG13	2.02	0.60
33:51:87:LEU:HB2	33:51:131:VAL:HG12	1.83	0.60
44:E8:1:MET:HB3	44:E8:64:MET:HE3	1.84	0.60
1:1G:352:C:O2'	1:1G:354:G:OP1	2.18	0.60
1:1G:1343:G:H2'	1:1G:1344:C:C6	2.37	0.60
13:4A:57:ARG:O	13:4A:61:GLU:HB2	2.00	0.60
26:14:1645:G:H5''	26:14:1646:C:H5'	1.83	0.60
27:1J:64:C:N4	27:1J:108:C:O2'	2.35	0.60
29:19:246:PRO:HD2	29:19:255:LYS:CE	2.31	0.60
49:F5:92:LYS:O	49:F5:94:LEU:N	2.34	0.60
1:13:1015:A:H2'	1:13:1016:A:C8	2.37	0.60
3:2E:64:VAL:HG12	3:2E:66:VAL:HG23	1.84	0.60
13:4I:37:THR:O	13:4I:55:ARG:NH1	2.35	0.60
26:1H:455:C:N3	26:1H:472:A:H2'	2.16	0.60
26:1H:961:C:OP2	61:1H:3547:HOH:O	2.16	0.60
29:11:39:LYS:HG3	29:11:40:THR:H	1.66	0.60
31:31:129:PHE:HB2	31:31:132:VAL:CG1	2.31	0.60
33:51:56:SER:OG	33:51:57:ASP:N	2.34	0.60
37:78:50:ARG:HD3	55:Q8:7:HIS:CD2	2.35	0.60
41:B8:1:MET:C	41:B8:2:ASN:O	2.44	0.60
1:1G:371:G:H1	1:1G:390:C:H42	1.46	0.60
1:1G:994:A:O2'	14:5A:8:GLU:OE2	2.13	0.60
2:12:146:GLN:O	2:12:150:SER:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:165:VAL:HG23	2:12:166:ASP:H	1.67	0.60
3:22:7:PRO:O	3:22:11:ARG:NH1	2.35	0.60
56:1L:67:C:N4	56:1L:68:G:O6	2.35	0.60
23:2L:50:G:H2'	23:2L:51:U:O4'	2.01	0.60
26:14:914:C:N3	26:14:915:C:H1'	2.17	0.60
29:19:246:PRO:CG	29:19:255:LYS:CE	2.79	0.60
32:49:106:LEU:HG	32:49:111:LEU:CB	2.32	0.60
48:E5:23:VAL:HG12	48:E5:25:ARG:O	2.01	0.60
3:2E:16:ARG:NH1	3:2E:16:ARG:HB2	2.16	0.59
14:5I:6:LEU:HB3	14:5I:23:ARG:NH2	2.17	0.59
24:3K:57:G:H22	26:1H:2112:G:N2	2.00	0.59
26:1H:430:G:H5''	26:1H:431:U:OP2	2.02	0.59
26:1H:654(P):G:N7	26:1H:654(Q):C:N4	2.50	0.59
26:1H:1988:C:H2'	26:1H:1989:G:H8	1.67	0.59
26:1H:2299:G:OP2	32:41:74:LYS:NZ	2.35	0.59
32:41:83:ARG:H	32:41:86:MET:HE2	1.66	0.59
1:1G:426:G:H2'	1:1G:427:U:C6	2.37	0.59
13:4A:55:ARG:O	13:4A:59:TYR:N	2.34	0.59
27:1J:18:G:H1	27:1J:65:C:N4	1.94	0.59
27:1J:19:G:H2'	27:1J:20:C:O4'	2.01	0.59
29:19:28:GLU:CD	29:19:28:GLU:C	2.70	0.59
32:49:18:GLU:HG3	32:49:21:ARG:HH21	1.66	0.59
41:75:31:SER:OG	41:75:85:LYS:HE3	2.00	0.59
44:A5:20:VAL:HG23	44:A5:47:VAL:HG21	1.84	0.59
46:C5:36:ALA:HA	46:C5:67:LEU:O	2.02	0.59
47:D5:19:ARG:HH11	47:D5:84:GLU:HB2	1.67	0.59
1:13:200:G:H1	1:13:217:C:H42	1.49	0.59
1:13:1372:U:OP1	9:8E:72:GLY:N	2.29	0.59
10:1I:83:GLU:HA	10:1I:86:MET:CE	2.32	0.59
26:1H:298:G:N7	46:G8:84:ARG:CZ	2.66	0.59
26:1H:705:A:C8	26:1H:727:A:C2	2.90	0.59
26:1H:1161:C:H1'	43:D8:8:GLY:O	2.02	0.59
26:1H:1525:G:H2'	26:1H:1526:G:C8	2.36	0.59
26:1H:2287:A:C2	26:1H:2289:G:C8	2.91	0.59
34:61:5:LEU:HD13	34:61:13:GLY:O	2.03	0.59
34:61:131:LYS:HB3	34:61:132:PRO:HA	1.84	0.59
36:68:88:ASN:HD21	36:68:90:GLN:HB2	1.67	0.59
1:1G:376:G:H1	1:1G:387:U:H3	1.50	0.59
1:1G:826:C:O2	8:72:15:ASN:ND2	2.35	0.59
1:1G:1084:G:O2'	1:1G:1103:C:N4	2.23	0.59
1:1G:1224:G:N1	1:1G:1322:C:O2'	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1535:C:H41	25:4L:9:G:N2	1.99	0.59
2:12:119:GLU:HG2	2:12:142:LEU:HD11	1.84	0.59
7:62:65:ALA:HB3	7:62:124:LEU:HD23	1.85	0.59
8:72:29:SER:H	8:72:32:LYS:HB2	1.66	0.59
9:82:71:SER:HA	9:82:74:ILE:HD12	1.84	0.59
16:7A:39:TYR:HB2	16:7A:49:LEU:HD13	1.82	0.59
26:14:854:G:H2'	26:14:855:G:H8	1.66	0.59
26:14:2232:U:P	49:F5:40:ARG:HH22	2.24	0.59
26:14:2250:G:C2	38:45:82:ARG:HB3	2.37	0.59
26:14:2467:C:H4'	38:45:123:HIS:CD2	2.36	0.59
31:39:122:LYS:HB3	31:39:191:ARG:HB2	1.83	0.59
32:49:105:LYS:HZ1	32:49:106:LEU:HD21	1.67	0.59
36:25:7:TYR:CE1	36:25:20:MET:HB2	2.36	0.59
1:13:517:G:N1	1:13:533:A:OP2	2.36	0.59
8:7E:82:HIS:CE1	8:7E:84:ARG:HB2	2.37	0.59
16:7I:43:LYS:HG2	16:7I:48:TRP:CE3	2.37	0.59
26:1H:764:A:O4'	29:11:213:ARG:HG3	2.02	0.59
26:1H:1038:C:H2'	26:1H:1039:G:O4'	2.03	0.59
32:41:124:SER:HB2	32:41:131:TYR:CE2	2.37	0.59
3:22:62:ASP:O	3:22:97:LYS:HB2	2.02	0.59
5:42:121:LYS:NZ	5:42:122:GLU:O	2.35	0.59
13:4A:84:ILE:C	13:4A:86:CYS:H	2.10	0.59
26:14:161:U:H4'	26:14:171:G:N2	2.16	0.59
26:14:631:A:N3	26:14:2415:G:O2'	2.33	0.59
26:14:830:G:H4'	26:14:831:G:OP2	2.01	0.59
26:14:1218:C:N3	26:14:1231:G:N2	2.44	0.59
26:14:2131:G:H5''	26:14:2133:G:C4'	2.32	0.59
30:29:147:PRO:HB2	30:29:149:ARG:HG3	1.84	0.59
41:75:118:ARG:NH2	41:75:121:ILE:HG21	2.18	0.59
46:C5:42:VAL:HG13	46:C5:65:ALA:HB3	1.85	0.59
1:13:68:G:C2	1:13:69:G:C8	2.91	0.59
1:13:1178:G:N2	1:13:1181:G:C8	2.70	0.59
5:4E:35:GLY:HA3	5:4E:112:LEU:O	2.02	0.59
15:6I:10:LYS:HE2	15:6I:10:LYS:HA	1.83	0.59
15:6I:69:TYR:CE1	15:6I:73:GLU:HG3	2.37	0.59
18:9I:38:GLU:OE1	18:9I:41:LYS:NZ	2.30	0.59
19:AI:23:ASN:HD21	19:AI:43:GLU:HB2	1.67	0.59
24:3K:58:A:O2'	24:3K:59:A:OP1	2.15	0.59
26:1H:286:C:H2'	26:1H:287:C:C6	2.37	0.59
26:1H:652:C:H2'	26:1H:653:A:H5'	1.84	0.59
26:1H:654(O):G:H8	26:1H:654(P):G:H1'	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2702:U:C6	26:1H:2702:U:H5''	2.37	0.59
40:A8:27:SER:HA	40:A8:88:ASP:HB3	1.83	0.59
1:1G:963:G:H21	10:1A:55:LYS:HE2	1.68	0.59
1:1G:997:U:H2'	1:1G:998:G:C8	2.38	0.59
1:1G:1294:G:H2'	1:1G:1295:G:C8	2.38	0.59
2:12:27:LYS:O	2:12:30:ARG:NH1	2.34	0.59
8:72:110:ALA:HB3	8:72:121:ASP:HB3	1.82	0.59
9:82:40:LEU:HB3	9:82:43:ALA:HB2	1.85	0.59
23:2L:77:A:H2'	23:2L:77:A:N3	2.17	0.59
26:14:205:G:HO2'	26:14:206:U:P	2.25	0.59
26:14:1441:G:H2'	26:14:1442:G:H8	1.67	0.59
26:14:2136:C:N3	26:14:2137:C:N4	2.51	0.59
26:14:2467:C:H2'	26:14:2468:G:O4'	2.02	0.59
26:14:2563:U:H2'	26:14:2565:A:OP2	2.03	0.59
29:19:267:SER:O	29:19:268:ARG:HG2	2.02	0.59
32:49:114:ILE:HG22	32:49:115:ARG:O	2.02	0.59
34:69:69:LYS:HD2	34:69:70:GLU:HG3	1.84	0.59
41:75:15:VAL:HG23	41:75:79:HIS:CE1	2.37	0.59
1:13:721:G:C6	1:13:733:A:C2	2.90	0.59
1:13:724:G:C2	1:13:725:G:C8	2.90	0.59
1:13:1053:G:N7	1:13:1199:U:H3'	2.17	0.59
1:13:1167:A:H2'	1:13:1169:A:C8	2.38	0.59
2:1E:43:ASP:HB3	2:1E:46:LYS:HD3	1.85	0.59
26:1H:1510:A:H2'	26:1H:1510:A:N3	2.17	0.59
26:1H:2016:U:O2	53:N8:7:PRO:HG2	2.02	0.59
26:1H:2584:U:H2'	26:1H:2585:U:H2'	1.85	0.59
31:31:155:LEU:HD12	31:31:174:VAL:HG23	1.84	0.59
47:H8:61:LEU:O	47:H8:64:GLY:HA2	2.02	0.59
47:H8:126:VAL:HG12	47:H8:163:LEU:HD23	1.83	0.59
48:I8:72:ARG:O	48:I8:75:LEU:HB2	2.02	0.59
1:1G:991:U:O2	1:1G:993:G:H8	1.85	0.59
2:12:91:PRO:HG3	2:12:154:LEU:HD12	1.84	0.59
26:14:120:U:C2	26:14:149:A:C6	2.91	0.59
26:14:481:G:OP2	46:C5:47:LYS:HD3	2.02	0.59
26:14:1835:G:OP2	61:14:3532:HOH:O	2.17	0.59
41:75:61:PHE:CE1	41:75:76:PHE:HB2	2.37	0.59
1:13:200:G:N2	1:13:218:C:O2	2.35	0.59
1:13:536:C:H2'	1:13:537:G:C8	2.38	0.59
8:7E:20:TYR:HE2	8:7E:75:ARG:HD2	1.67	0.59
9:8E:10:ARG:NE	9:8E:11:LYS:HG3	2.18	0.59
9:8E:41:VAL:O	9:8E:43:ALA:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1I:83:GLU:CD	10:1I:83:GLU:H	2.11	0.59
17:8I:48:GLU:O	17:8I:48:GLU:HG2	2.02	0.59
26:1H:51:G:H1'	26:1H:119:A:N1	2.17	0.59
26:1H:2164:C:OP2	26:1H:2166:G:N2	2.35	0.59
37:78:13:ASN:C	37:78:15:ARG:H	2.10	0.59
38:88:112:GLU:H	38:88:112:GLU:CD	2.10	0.59
45:F8:24:GLY:O	45:F8:83:VAL:HG22	2.02	0.59
55:Q8:21:LYS:HD3	55:Q8:49:VAL:HG11	1.84	0.59
1:1G:547:A:OP2	4:32:2:GLY:HA2	2.02	0.59
1:1G:1279:A:O2'	1:1G:1282:C:N4	2.35	0.59
3:22:5:ILE:HG21	10:1A:51:ARG:NH2	2.17	0.59
3:22:44:GLU:HG3	3:22:52:LEU:HD21	1.83	0.59
6:52:5:GLU:HG2	6:52:64:GLN:OE1	2.02	0.59
56:1L:18:G:O6	26:14:880:G:H1'	2.02	0.59
26:14:1935:G:H1'	26:14:1964:G:N2	2.17	0.59
26:14:2651:C:N4	26:14:2669:G:H1	1.96	0.59
26:14:2880:C:O2'	39:55:90:ARG:HD3	2.02	0.59
27:1J:7:G:C2'	40:65:38:GLN:HE22	2.16	0.59
30:29:89:ASP:O	30:29:90:THR:HG22	2.03	0.59
36:25:43:VAL:HG21	36:25:56:ASP:HB2	1.84	0.59
40:65:30:ARG:HD3	40:65:98:VAL:HG13	1.83	0.59
1:13:738:C:H2'	1:13:739:C:H6	1.67	0.59
2:1E:87:ARG:NE	2:1E:232:PRO:HB3	2.17	0.59
25:4K:23:A:H2'	25:4K:24:A:H4'	1.84	0.59
26:1H:860:U:H5	26:1H:917:A:C2	2.20	0.59
26:1H:1401:G:H2'	26:1H:1402:C:C6	2.38	0.59
50:K8:3:LEU:CB	50:K8:6:VAL:HG23	2.32	0.59
1:1G:617:G:C2	1:1G:618:C:C5	2.91	0.59
1:1G:947:G:O3'	13:4A:109:THR:OG1	2.20	0.59
1:1G:1261:A:H5'	1:1G:1283:G:O3'	2.03	0.59
1:1G:1387:G:H2'	1:1G:1388:C:H6	1.68	0.59
1:1G:1411:C:H2'	1:1G:1412:C:C6	2.37	0.59
1:1G:1450:U:OP1	1:1G:1451:A:N6	2.35	0.59
6:52:2:ARG:NH2	6:52:69:GLU:HG3	2.17	0.59
20:BA:39:LYS:HD2	20:BA:55:ILE:HD13	1.85	0.59
26:14:1288:U:H4'	26:14:1289:C:OP2	2.03	0.59
26:14:1448:G:H1'	26:14:1528:A:H62	1.67	0.59
26:14:1542:G:O6	26:14:1543:A:N6	2.36	0.59
26:14:2259:G:N2	26:14:2282:G:C2	2.71	0.59
29:19:108:PRO:HG2	29:19:111:LEU:HB2	1.85	0.59
49:F5:40:ARG:HH21	49:F5:42:GLN:HG2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:155:LEU:O	4:3E:158:ILE:N	2.36	0.59
16:7I:8:ARG:HH12	16:7I:15:PRO:CA	2.15	0.59
16:7I:8:ARG:CZ	16:7I:15:PRO:HB3	2.32	0.59
24:3K:68:G:H2'	24:3K:69:A:C8	2.37	0.59
26:1H:6:A:H2	26:1H:7:G:C4	2.21	0.59
26:1H:412:A:H2'	26:1H:412:A:N3	2.17	0.59
26:1H:582:G:H2'	26:1H:583:G:C8	2.37	0.59
26:1H:1515:C:H2'	26:1H:1516:U:H6	1.68	0.59
26:1H:1568:G:P	29:11:63:ARG:HH12	2.25	0.59
26:1H:2666:C:H42	33:51:109:PHE:HA	1.67	0.59
33:51:24:VAL:HG13	33:51:35:VAL:HB	1.83	0.59
1:1G:1196:U:O4	5:42:24:ARG:NH1	2.36	0.59
26:14:1225:C:H4'	43:95:85:LYS:HG2	1.84	0.59
26:14:2305:A:C4	32:49:136:ARG:HD3	2.37	0.59
26:14:2346:A:C2	26:14:2383:G:C2	2.91	0.59
26:14:2392:A:H2	26:14:2424:C:N4	1.98	0.59
27:1J:83:G:H4'	51:H5:52:HIS:CG	2.38	0.59
32:49:111:LEU:O	32:49:114:ILE:HG12	2.01	0.59
35:15:33:LEU:HD12	35:15:38:HIS:ND1	2.17	0.59
38:45:75:THR:HB	38:45:86:GLY:HA3	1.84	0.59
41:75:77:PRO:HG2	41:75:80:SER:HB3	1.85	0.59
2:1E:166:ASP:C	2:1E:168:THR:H	2.11	0.59
20:BI:45:GLN:HB2	20:BI:91:LEU:HD13	1.85	0.59
20:BI:57:ARG:HH11	20:BI:102:GLY:HA2	1.68	0.59
22:1K:34:U8U:S2	25:4K:21:A:H2	2.25	0.59
24:3K:13:C:H2'	24:3K:14:A:H8	1.67	0.59
26:1H:55:G:H2'	26:1H:56:A:C8	2.36	0.59
26:1H:252:G:OP2	37:78:50:ARG:NH1	2.36	0.59
26:1H:592:G:N2	55:Q8:4:MET:HE1	2.17	0.59
27:16:91:C:OP1	38:88:19:GLY:HA2	2.01	0.59
42:C8:74:LEU:CD1	42:C8:75:ASN:O	2.51	0.59
49:J8:64:ALA:HA	49:J8:67:ILE:HG13	1.85	0.59
1:1G:110:C:H2'	1:1G:111:G:O4'	2.01	0.59
1:1G:1499:A:H1'	1:1G:1520:G:H5'	1.85	0.59
2:12:127:ILE:HG23	2:12:135:GLN:HE22	1.67	0.59
3:22:29:TYR:CZ	3:22:33:LEU:CD2	2.68	0.59
10:1A:36:GLY:O	10:1A:38:ILE:HG13	2.02	0.59
26:14:404:C:OP2	61:14:3533:HOH:O	2.17	0.59
26:14:1165:U:H2'	26:14:1166:C:C6	2.37	0.59
26:14:1678:G:N2	26:14:1989:G:H22	2.00	0.59
26:14:2639:A:C2	26:14:2778:A:C8	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1J:13:A:H2'	27:1J:70:C:O2'	2.03	0.59
32:49:145:THR:O	32:49:146:TYR:HB3	2.02	0.59
40:65:14:VAL:HG11	40:65:89:ARG:HD3	1.85	0.59
49:F5:29:GLY:O	49:F5:30:VAL:HG22	2.01	0.59
1:13:191(D):U:H2'	1:13:191(E):G:C8	2.37	0.59
1:13:346:G:H3'	1:13:346:G:N3	2.17	0.59
1:13:686:U:O4	1:13:703:G:H1'	2.03	0.59
6:5E:50:TYR:OH	18:9I:74:ARG:O	2.12	0.59
26:1H:84:A:H3'	46:G8:8:LYS:HB2	1.84	0.59
26:1H:654(O):G:H3'	26:1H:654(P):G:O4'	2.02	0.59
26:1H:723:G:H2'	26:1H:724:U:O4'	2.03	0.59
26:1H:825:C:H2'	26:1H:826:U:H5'	1.84	0.59
26:1H:858:U:O2	26:1H:2268:A:H2'	2.03	0.59
26:1H:1129:A:N6	26:1H:2491:U:OP1	2.35	0.59
26:1H:1593:G:H2'	26:1H:1594:G:C8	2.38	0.59
26:1H:2146:C:H4'	26:1H:2147:G:C5	2.37	0.59
28:71:44:HIS:O	28:71:212:VAL:HA	2.02	0.59
29:11:26:LYS:HB3	29:11:29:PRO:HG3	1.83	0.59
30:21:69:LYS:HD2	30:21:69:LYS:N	2.17	0.59
1:1G:439:A:H3'	1:1G:440:A:H8	1.68	0.59
1:1G:1057:G:O6	1:1G:1203:C:N4	2.36	0.59
1:1G:1085:U:H5'	1:1G:1094:G:N2	2.18	0.59
1:1G:1321:C:H4'	13:4A:87:TYR:CE2	2.38	0.59
13:4A:16:ASP:OD1	13:4A:16:ASP:N	2.36	0.59
26:14:107:C:H2'	26:14:108:U:H6	1.68	0.59
26:14:443:A:H1'	26:14:1201:C:O4'	2.02	0.59
26:14:1332:G:C8	26:14:1332:G:H5'	2.38	0.59
26:14:1991:U:C2'	26:14:1992:G:H5''	2.33	0.59
31:39:18:ARG:NH2	31:39:19:GLU:O	2.36	0.59
32:49:112:PRO:HA	32:49:117:PHE:CD2	2.38	0.59
39:55:106:GLY:O	39:55:107:ASP:HB3	2.03	0.59
1:13:109:A:C8	1:13:326:G:H2'	2.38	0.58
1:13:443:C:H42	1:13:491:G:H1	1.50	0.58
1:13:593:G:H1	1:13:646:U:H3	1.49	0.58
2:1E:19:HIS:HD2	2:1E:205:ASP:OD1	1.86	0.58
3:2E:52:LEU:HA	3:2E:70:VAL:HG23	1.85	0.58
5:4E:148:VAL:HG21	8:7E:107:LEU:HD22	1.85	0.58
26:1H:1604:C:H5''	61:1H:4029:HOH:O	2.01	0.58
26:1H:2134:A:H3'	26:1H:2135:A:C8	2.38	0.58
27:16:15:A:H1'	27:16:109:G:C4	2.38	0.58
29:11:108:PRO:HG3	29:11:143:HIS:HE1	1.65	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:109:PHE:HE1	33:51:152:ARG:NH2	2.01	0.58
34:61:1:MET:O	34:61:20:ASP:HA	2.03	0.58
40:A8:32:LEU:O	40:A8:62:LYS:NZ	2.36	0.58
42:C8:92:ARG:HB2	43:D8:11:GLN:NE2	2.18	0.58
42:C8:92:ARG:NE	43:D8:11:GLN:H	2.00	0.58
1:1G:1319:A:H61	1:1G:1361:G:H21	1.50	0.58
4:32:101:LEU:O	4:32:104:VAL:HG12	2.03	0.58
26:14:155:C:N3	26:14:171:G:N2	2.50	0.58
26:14:1686:C:H2'	26:14:1687:G:O4'	2.03	0.58
27:1J:27:C:C2'	27:1J:28:C:H5'	2.33	0.58
30:29:31:CYS:SG	30:29:51:PHE:HB2	2.43	0.58
32:49:56:ALA:HB2	32:49:153:ARG:HE	1.68	0.58
34:69:78:THR:O	34:69:80:PRO:HD3	2.03	0.58
43:95:85:LYS:HD2	43:95:87:HIS:H	1.68	0.58
55:M5:14:VAL:HG11	55:M5:58:ILE:HD11	1.84	0.58
1:13:346:G:H8	41:B8:41:ARG:CZ	2.15	0.58
1:13:624:C:O3'	16:7I:10:GLY:HA2	2.02	0.58
1:13:1121:U:H2'	1:13:1122:U:O4'	2.03	0.58
3:2E:16:ARG:HB2	3:2E:16:ARG:HH11	1.67	0.58
8:7E:36:LEU:HA	8:7E:39:LEU:HD23	1.85	0.58
11:2I:73:MET:HE2	11:2I:103:LEU:HD22	1.85	0.58
23:2K:8:4SU:O5'	23:2K:8:4SU:H6	2.02	0.58
26:1H:699:A:H2'	26:1H:700:G:O4'	2.03	0.58
26:1H:1956:U:H2'	26:1H:1957:C:H5'	1.85	0.58
26:1H:2378:A:H8	26:1H:2378:A:O5'	1.85	0.58
32:41:179:PRO:HG3	52:M8:38:LYS:NZ	2.18	0.58
34:61:58:LEU:O	34:61:62:LYS:N	2.35	0.58
40:A8:4:LEU:HD23	40:A8:8:GLU:HG3	1.85	0.58
42:C8:92:ARG:HB2	43:D8:11:GLN:HE21	1.66	0.58
3:22:61:ALA:C	3:22:63:ASN:H	2.11	0.58
26:14:303:U:H2'	26:14:304:G:H8	1.66	0.58
26:14:395:U:H2'	61:14:3782:HOH:O	2.02	0.58
26:14:395:U:H2'	26:14:396:G:N7	2.18	0.58
26:14:1019:U:OP1	26:14:1035:U:O2'	2.09	0.58
26:14:2489:G:N2	26:14:2491:U:O4	2.35	0.58
26:14:2512:C:H5''	26:14:2513:G:OP2	2.03	0.58
27:1J:2:C:H2'	27:1J:3:C:C5	2.38	0.58
29:19:246:PRO:HG2	29:19:255:LYS:CE	2.27	0.58
41:75:11:GLU:OE1	41:75:11:GLU:N	2.36	0.58
42:85:98:LEU:HA	42:85:100:VAL:O	2.02	0.58
1:13:1145:C:H4'	1:13:1146:A:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:7E:43:GLY:O	8:7E:64:LYS:HD3	2.03	0.58
19:AI:5:LEU:HB3	19:AI:10:PHE:HE1	1.68	0.58
24:3K:65:C:H2'	24:3K:66:A:C8	2.38	0.58
26:1H:2122:U:O2'	28:71:166:ASP:OD1	2.15	0.58
26:1H:2126:A:N6	26:1H:2163:C:O2'	2.36	0.58
38:88:66:ILE:HD12	38:88:67:ARG:N	2.15	0.58
1:1G:309:G:H8	1:1G:309:G:O5'	1.85	0.58
1:1G:1305:G:H22	1:1G:1331:G:C2'	2.16	0.58
3:22:29:TYR:CD1	3:22:29:TYR:C	2.81	0.58
7:62:26:PHE:O	7:62:30:ILE:HG13	2.04	0.58
57:3L:8:U:H1'	57:3L:48:C:C2	2.38	0.58
26:14:634:C:H2'	26:14:635:C:C6	2.37	0.58
26:14:1403:C:OP1	26:14:1522:G:N2	2.24	0.58
26:14:1667:G:H5''	36:25:5:GLN:O	2.03	0.58
26:14:1796:U:H2'	26:14:1797:C:C6	2.38	0.58
26:14:2115:G:H1'	26:14:2171:A:H61	1.67	0.58
26:14:2250:G:C6	38:45:82:ARG:HD2	2.38	0.58
26:14:2299:G:H2'	26:14:2300:G:C8	2.38	0.58
26:14:2542:A:N3	26:14:2542:A:H5''	2.18	0.58
29:19:12:SER:HB2	29:19:208:LYS:HB3	1.85	0.58
29:19:95:LEU:CD1	29:19:105:ILE:HD12	2.32	0.58
34:69:77:LEU:HD12	34:69:78:THR:H	1.67	0.58
45:B5:1:MET:N	45:B5:2:LYS:HA	2.18	0.58
1:13:178:C:H2'	1:13:179:A:O4'	2.03	0.58
1:13:538:G:O3'	12:3I:114:LYS:HE2	2.03	0.58
1:13:1226:C:OP2	13:4I:103:THR:OG1	2.13	0.58
26:1H:637:A:H2'	37:78:117:GLU:OE1	2.04	0.58
26:1H:1142(A):A:H4'	35:58:25:ARG:HH22	1.68	0.58
26:1H:2163:C:OP2	26:1H:2164:C:N4	2.35	0.58
26:1H:2165:G:H8	26:1H:2165:G:OP2	1.87	0.58
26:1H:2461:C:H2'	26:1H:2462:U:C6	2.38	0.58
29:11:37:LEU:HD23	29:11:37:LEU:H	1.63	0.58
33:51:121:ILE:HG12	33:51:140:LYS:HD3	1.85	0.58
42:C8:106:PHE:HA	42:C8:109:LEU:HD12	1.84	0.58
1:1G:801:U:H2'	1:1G:802:A:H8	1.67	0.58
1:1G:1521:G:H2'	1:1G:1522:U:C6	2.39	0.58
2:12:30:ARG:NH2	2:12:194:PRO:HB2	2.18	0.58
5:42:41:VAL:O	5:42:67:VAL:N	2.37	0.58
26:14:89:G:H3'	26:14:90:U:C5'	2.34	0.58
26:14:130:C:O3'	26:14:1349:A:H1'	2.04	0.58
26:14:139:G:H22	26:14:1596:A:H4'	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:536:A:OP1	42:85:53:ARG:NH1	2.36	0.58
26:14:801:G:N7	31:39:53:THR:HG23	2.19	0.58
26:14:1359:A:N7	26:14:1372:U:O4	2.35	0.58
26:14:1461:G:H2'	26:14:1462:C:C6	2.38	0.58
26:14:2789:C:H1'	26:14:2892:A:H2	1.68	0.58
30:29:54:GLN:HG3	30:29:55:ASN:H	1.68	0.58
30:29:111:ARG:HD2	30:29:160:TYR:CD2	2.38	0.58
31:39:108:LYS:O	31:39:112:MET:HG3	2.03	0.58
32:49:97:ASP:H	32:49:100:TRP:HD1	1.51	0.58
49:F5:40:ARG:NH2	49:F5:42:GLN:HE21	2.01	0.58
1:13:1106:G:H5''	3:2E:172:ARG:HG2	1.84	0.58
37:78:19:VAL:HB	37:78:20:GLY:HA3	1.86	0.58
38:88:5:ARG:HH21	38:88:6:ARG:HD3	1.69	0.58
39:98:100:LEU:CD1	39:98:113:LEU:HD13	2.33	0.58
1:1G:18:C:H6	1:1G:18:C:O5'	1.86	0.58
2:12:73:THR:O	2:12:78:GLN:NE2	2.36	0.58
26:14:673:C:H4'	31:39:82:ILE:HD11	1.85	0.58
26:14:1292:U:H2'	26:14:1293:C:C6	2.39	0.58
26:14:1418:G:H2'	26:14:1579:A:N6	2.18	0.58
26:14:2050:C:H1'	30:29:156:MET:HE1	1.85	0.58
29:19:126:GLN:O	29:19:193:VAL:HG13	2.03	0.58
35:15:14:VAL:HA	35:15:135:PRO:HD2	1.84	0.58
46:C5:20:TYR:CE2	46:C5:42:VAL:HA	2.37	0.58
2:1E:71:VAL:HG12	2:1E:93:VAL:HB	1.84	0.58
26:1H:354:G:H2'	26:1H:355:G:H8	1.68	0.58
26:1H:818:G:H4'	26:1H:838:C:O3'	2.04	0.58
26:1H:1166:C:H2'	26:1H:1167:U:C6	2.38	0.58
26:1H:2470:G:H5'	38:88:56:ARG:HH21	1.69	0.58
29:11:30:GLU:HG3	29:11:63:ARG:NH2	2.19	0.58
32:41:143:GLU:OE1	52:M8:26:SER:OG	2.22	0.58
37:78:19:VAL:HB	37:78:20:GLY:CA	2.33	0.58
1:1G:9:G:OP1	5:42:122:GLU:HB2	2.03	0.58
1:1G:1365:G:H2'	1:1G:1366:C:C6	2.39	0.58
3:22:147:LYS:HB2	3:22:203:PHE:HD1	1.69	0.58
4:32:150:GLU:C	4:32:152:SER:N	2.59	0.58
12:3A:60:LEU:HB2	12:3A:64:TYR:CB	2.33	0.58
15:6A:87:ILE:HG22	15:6A:88:ARG:HB2	1.86	0.58
26:14:1754:C:P	41:75:96:ARG:HH11	2.21	0.58
38:45:25:ASP:HB3	38:45:102:VAL:N	2.05	0.58
44:A5:72:LYS:HB3	44:A5:106:ILE:HG13	1.85	0.58
1:13:57:G:H2'	1:13:58:C:C6	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:429:U:H1'	1:13:430:A:H5''	1.85	0.58
1:13:1464:G:H2'	1:13:1465:C:H6	1.69	0.58
4:3E:173:TRP:CD1	4:3E:174:LEU:HG	2.39	0.58
26:1H:1517:G:H5''	26:1H:1518:C:OP2	2.03	0.58
26:1H:2636:U:H2'	26:1H:2637:U:C6	2.38	0.58
26:1H:2688:U:H5	26:1H:2720:U:OP2	1.87	0.58
27:16:12:C:OP2	27:16:12:C:H6	1.85	0.58
29:11:119:ALA:CB	29:11:130:ALA:HB3	2.32	0.58
39:98:54:LEU:HB3	39:98:62:ALA:HB1	1.84	0.58
54:P8:35:ARG:NH1	54:P8:42:LEU:HD11	2.18	0.58
1:1G:735:C:H2'	1:1G:736:C:H6	1.68	0.58
7:62:116:ALA:HA	7:62:119:ARG:HE	1.69	0.58
8:72:68:ARG:CZ	8:72:74:PRO:HB3	2.33	0.58
12:3A:8:ASN:O	12:3A:12:ARG:HG3	2.04	0.58
18:9A:38:GLU:OE2	18:9A:38:GLU:N	2.37	0.58
26:14:1434:A:H2'	26:14:1435:G:C8	2.38	0.58
26:14:1592:C:H2'	26:14:1593:G:H8	1.65	0.58
26:14:2324:C:H5''	26:14:2325:G:H5'	1.85	0.58
26:14:2461:C:H2'	26:14:2462:U:C6	2.39	0.58
26:14:2641:G:P	35:15:74:ARG:HH21	2.26	0.58
1:13:659:U:H2'	1:13:660:G:C8	2.39	0.58
3:2E:59:ARG:HA	3:2E:63:ASN:O	2.04	0.58
8:7E:44:PHE:HE2	8:7E:109:ILE:HG12	1.68	0.58
8:7E:45:ILE:HD12	8:7E:47:GLY:HA2	1.86	0.58
8:7E:82:HIS:NE2	8:7E:136:GLU:OE2	2.35	0.58
9:8E:71:SER:HA	9:8E:74:ILE:HD12	1.86	0.58
26:1H:388:G:O3'	49:J8:25:LYS:CE	2.52	0.58
26:1H:556:G:H2'	26:1H:557:U:C6	2.39	0.58
26:1H:957:A:N1	26:1H:2458:G:H4'	2.18	0.58
26:1H:2275:C:O2'	38:88:85:LYS:HA	2.03	0.58
26:1H:2327:A:H2'	26:1H:2328:A:H8	1.66	0.58
26:1H:2359:C:C5'	55:Q8:52:LYS:HD2	2.33	0.58
29:11:70:TRP:CE2	29:11:150:LYS:HD3	2.39	0.58
41:B8:12:SER:HG	41:B8:15:VAL:N	2.02	0.58
43:D8:38:LEU:O	43:D8:39:LEU:HD23	2.04	0.58
50:K8:5:GLU:O	50:K8:8:LYS:N	2.37	0.58
52:M8:6:HIS:HD1	52:M8:7:PRO:HD2	1.69	0.58
1:1G:730:G:C5	1:1G:731:G:H1'	2.38	0.58
1:1G:801:U:H2'	1:1G:802:A:C8	2.39	0.58
5:42:81:GLU:HA	5:42:90:VAL:HG12	1.86	0.58
26:14:943:U:OP2	37:35:36:LYS:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2096:U:H3	26:14:2193:G:H1	1.52	0.58
39:55:87:TYR:HD1	39:55:90:ARG:HE	1.52	0.58
1:13:67:C:H1'	1:13:171:A:C2	2.39	0.58
1:13:1243:C:O2	1:13:1295:G:N2	2.37	0.58
6:5E:97:PHE:O	18:9I:31:LEU:HD23	2.04	0.58
20:BI:49:ALA:HB1	20:BI:99:LEU:HB2	1.86	0.58
20:BI:53:LEU:HA	20:BI:56:MET:HB3	1.85	0.58
26:1H:234:C:H2'	26:1H:235:U:C6	2.37	0.58
26:1H:644:A:H4'	26:1H:645:C:C5	2.38	0.58
26:1H:662:G:C4'	37:78:15:ARG:HA	2.32	0.58
26:1H:2362:G:OP1	55:Q8:44:LYS:NZ	2.37	0.58
28:71:59:ARG:HA	28:71:163:PHE:O	2.03	0.58
31:31:179:GLU:H	31:31:179:GLU:CD	2.11	0.58
37:78:28:GLY:O	37:78:31:ALA:N	2.26	0.58
2:12:124:SER:O	2:12:126:GLU:N	2.34	0.58
15:6A:10:LYS:HA	15:6A:13:GLN:OE1	2.04	0.58
26:14:550:G:O2'	26:14:1220:A:N3	2.34	0.58
26:14:660:G:H21	37:35:12:ALA:CB	2.16	0.58
26:14:1340:U:H4'	26:14:1394:U:O2'	2.04	0.58
26:14:2158:A:O2'	26:14:2159:G:O4'	2.19	0.58
26:14:2789:C:O3'	26:14:2790:A:H4'	2.04	0.58
27:1J:49:C:OP2	40:65:30:ARG:NH1	2.36	0.58
34:69:5:LEU:HD21	34:69:19:VAL:HG12	1.86	0.58
34:69:124:GLY:H	34:69:142:VAL:CG2	2.17	0.58
36:25:89:ASN:OD1	36:25:89:ASN:N	2.37	0.58
43:95:37:VAL:CG2	43:95:57:VAL:H	2.17	0.58
3:2E:38:ARG:HD3	3:2E:94:LEU:HD11	1.86	0.58
3:2E:57:ILE:HG12	3:2E:66:VAL:HG22	1.85	0.58
7:6E:62:PHE:HD1	7:6E:124:LEU:HD11	1.69	0.58
17:8I:14:LYS:N	17:8I:14:LYS:HD2	2.19	0.58
23:2K:47:G7M:O2'	23:2K:48:U:O5'	2.22	0.58
26:1H:126:A:O5'	54:P8:19:ARG:HG3	2.04	0.58
26:1H:190:A:OP2	49:J8:39:LYS:HE3	2.03	0.58
26:1H:1675:C:N4	26:1H:1993:U:O4'	2.37	0.58
26:1H:2068:U:N3	26:1H:2430:A:C2	2.72	0.58
32:41:101:ILE:HD13	52:M8:9:LEU:HD11	1.86	0.58
52:M8:43:TYR:CD2	52:M8:44:THR:HG23	2.38	0.58
1:1G:735:C:H2'	1:1G:736:C:C6	2.38	0.58
1:1G:1251:A:H2'	1:1G:1252:A:C8	2.38	0.58
8:72:23:SER:OG	8:72:60:ARG:HG2	2.04	0.58
18:9A:22:VAL:C	18:9A:24:ALA:H	2.12	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:64:ASP:OD1	20:BA:81:LYS:HD2	2.03	0.58
26:14:853:G:H2'	26:14:854:G:C8	2.39	0.58
26:14:1430:C:H2'	26:14:1431:U:C6	2.39	0.58
26:14:2143:C:H2'	26:14:2144:U:H4'	1.85	0.58
26:14:2577:A:O4'	53:J5:3:LYS:HB2	2.04	0.58
26:14:2636:U:HO2'	30:29:44:TYR:HH	1.47	0.58
26:14:2789:C:O2	26:14:2894:G:N2	2.37	0.58
26:14:2795:G:H2'	26:14:2795:G:N3	2.18	0.58
34:69:130:TYR:O	34:69:131:LYS:HD2	2.03	0.58
35:15:56:ASN:H	35:15:125:GLY:HA3	1.68	0.58
38:45:21:THR:HG21	38:45:101:ARG:HD2	1.85	0.58
1:13:277:C:H2'	1:13:278:G:H8	1.68	0.57
4:3E:122:ARG:HH12	4:3E:135:LEU:HD13	1.68	0.57
4:3E:150:GLU:HA	4:3E:153:ARG:HG3	1.86	0.57
6:5E:52:ILE:O	6:5E:55:ASP:HB2	2.04	0.57
8:7E:23:SER:HA	8:7E:61:VAL:O	2.04	0.57
9:8E:42:ARG:NH1	9:8E:71:SER:OG	2.34	0.57
17:8I:64:PRO:HB3	17:8I:70:ARG:NH1	2.19	0.57
26:1H:433:C:H2'	26:1H:434:U:C6	2.39	0.57
26:1H:443:A:C5	31:31:45:ARG:HD2	2.39	0.57
26:1H:631:A:H5''	26:1H:632:A:OP2	2.04	0.57
26:1H:1166:C:H2'	26:1H:1167:U:H6	1.69	0.57
39:98:2:ARG:O	39:98:5:LYS:HG2	2.04	0.57
1:1G:522:C:H2'	1:1G:523:A:O4'	2.04	0.57
1:1G:595:G:H1'	1:1G:596:C:H5	1.68	0.57
1:1G:634:C:H2'	1:1G:635:G:H8	1.69	0.57
1:1G:930:C:H42	1:1G:1387:G:H1	1.52	0.57
1:1G:1095:U:OP1	1:1G:1108:G:N1	2.35	0.57
1:1G:1207:G:H2'	1:1G:1208:C:H6	1.68	0.57
17:8A:22:LEU:HD13	17:8A:41:LYS:HG2	1.86	0.57
20:BA:72:LEU:O	20:BA:73:HIS:HB2	2.03	0.57
29:19:85:ASP:HB2	29:19:92:ILE:CD1	2.34	0.57
30:29:51:PHE:O	30:29:74:PRO:HB2	2.04	0.57
31:39:28:ILE:HA	31:39:112:MET:HB3	1.86	0.57
1:13:237:C:H5''	17:8I:25:ARG:CZ	2.33	0.57
1:13:451:A:N6	1:13:480:U:H2'	2.19	0.57
1:13:779:C:H2'	1:13:780:A:O4'	2.05	0.57
1:13:1348:U:H4'	9:8E:120:ARG:HG3	1.85	0.57
2:1E:160:ASP:O	2:1E:183:PRO:HD2	2.04	0.57
4:3E:79:PHE:CE2	4:3E:204:ILE:HA	2.39	0.57
11:2I:59:TYR:CZ	11:2I:63:LEU:HD11	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2K:29:C:H2'	23:2K:30:G:C8	2.38	0.57
23:2K:54:G:O2'	23:2K:55:5MU:H5''	2.03	0.57
26:1H:773:U:H4'	29:11:47:GLY:HA3	1.87	0.57
26:1H:1174:A:C8	26:1H:1176:G:H1'	2.38	0.57
26:1H:1639:U:H5''	61:1H:3699:HOH:O	2.03	0.57
26:1H:2146:C:H4'	26:1H:2147:G:N7	2.19	0.57
32:41:67:LYS:HD2	52:M8:6:HIS:CG	2.38	0.57
34:61:129:THR:HA	34:61:137:PRO:HA	1.86	0.57
41:B8:41:ARG:HH11	41:B8:41:ARG:HB2	1.69	0.57
41:B8:97:ALA:HB1	41:B8:98:LYS:HE2	1.85	0.57
50:K8:51:ARG:NH1	50:K8:55:ARG:HH12	2.02	0.57
1:1G:1179:A:H5''	9:82:97:LYS:HE3	1.86	0.57
2:12:145:LEU:O	2:12:149:LEU:HB2	2.04	0.57
2:12:164:VAL:HB	2:12:186:ALA:HB2	1.87	0.57
4:32:127:THR:HG23	4:32:147:ALA:HB3	1.84	0.57
5:42:18:ARG:HH21	5:42:25:ARG:HD3	1.68	0.57
5:42:27:ARG:HH11	5:42:47:LYS:HZ3	1.51	0.57
6:52:22:GLU:OE1	6:52:84:ASN:ND2	2.38	0.57
13:4A:78:ILE:HG23	13:4A:92:HIS:ND1	2.19	0.57
15:6A:17:ARG:HH11	15:6A:77:ARG:NH1	2.01	0.57
26:14:1386:C:H2'	26:14:1387:C:C6	2.39	0.57
26:14:2748:A:H2'	26:14:2749:A:H8	1.69	0.57
32:49:75:LYS:HA	32:49:84:LYS:HG3	1.86	0.57
35:15:7:LYS:O	35:15:9:VAL:HG13	2.04	0.57
39:55:45:ARG:HA	39:55:95:THR:HG21	1.84	0.57
47:D5:23:LYS:HD3	47:D5:40:ASP:HA	1.86	0.57
1:13:343:U:H2'	1:13:344:A:H5''	1.85	0.57
1:13:453:A:OP2	1:13:478:A:N6	2.37	0.57
1:13:625:G:H4'	16:7I:16:HIS:HB2	1.86	0.57
1:13:1131:G:H2'	1:13:1132:C:C6	2.39	0.57
1:13:1423:G:P	36:68:49:ARG:HH22	2.27	0.57
14:5I:26:ARG:NH1	14:5I:43:CYS:SG	2.77	0.57
19:AI:41:VAL:HB	19:AI:42:PRO:C	2.28	0.57
22:1K:14:A:N6	22:1K:22:G:N3	2.53	0.57
26:1H:483:A:O2'	46:G8:49:VAL:O	2.22	0.57
26:1H:1444:G:C2	26:1H:1548:C:N3	2.72	0.57
26:1H:2153:G:H2'	26:1H:2154:G:O4'	2.04	0.57
26:1H:2188:C:N4	26:1H:2189:U:O2	2.37	0.57
26:1H:2361:A:OP1	55:Q8:27:THR:HG23	2.05	0.57
32:41:97:ASP:O	32:41:100:TRP:N	2.36	0.57
41:B8:20:PRO:HD2	41:B8:86:ILE:HG23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:50:ARG:HG2	42:C8:53:ARG:NH2	2.18	0.57
42:C8:74:LEU:HD12	42:C8:74:LEU:C	2.29	0.57
1:1G:403:C:H42	1:1G:547:A:H5'	1.68	0.57
1:1G:1059:C:O2	10:1A:53:PRO:HG3	2.04	0.57
2:12:175:ARG:O	2:12:179:LYS:HB2	2.04	0.57
26:14:589:C:O3'	31:39:95:ARG:NH1	2.37	0.57
26:14:616:A:C4	31:39:180:GLY:HA2	2.39	0.57
26:14:1021:A:H62	26:14:1141:U:H3	1.51	0.57
31:39:130:ALA:H	31:39:142:TRP:HD1	1.51	0.57
33:59:54:ARG:NH2	33:59:57:ASP:OD1	2.36	0.57
38:45:21:THR:HG22	38:45:23:GLY:HA3	1.85	0.57
1:13:272:C:H2'	1:13:273:A:C8	2.39	0.57
2:1E:16:HIS:NE2	2:1E:210:SER:O	2.37	0.57
8:7E:34:GLU:OE1	8:7E:37:ARG:NH1	2.37	0.57
8:7E:64:LYS:HG2	8:7E:79:VAL:HG21	1.87	0.57
10:1I:8:LEU:HD12	10:1I:20:ALA:HB2	1.85	0.57
16:7I:13:HIS:C	16:7I:15:PRO:HD3	2.29	0.57
26:1H:1021:A:C8	26:1H:1021:A:C3'	2.85	0.57
26:1H:1439:A:C2	26:1H:1553:A:C4	2.93	0.57
26:1H:2291:U:H2'	26:1H:2292:C:C6	2.39	0.57
1:1G:620:C:H2'	1:1G:621:A:O4'	2.04	0.57
1:1G:1124:G:H2'	1:1G:1145:C:C4	2.40	0.57
7:62:41:ARG:O	7:62:45:ASP:HB2	2.04	0.57
26:14:641:C:H5''	26:14:642:G:OP2	2.05	0.57
26:14:867:C:H5''	26:14:868:U:OP2	2.04	0.57
26:14:1688:U:O2	26:14:1700:A:H5'	2.04	0.57
29:19:44:ASN:HB3	29:19:47:GLY:H	1.69	0.57
32:49:55:LYS:O	32:49:59:GLU:HB2	2.04	0.57
33:59:148:ILE:H	33:59:148:ILE:HD12	1.68	0.57
37:35:136:GLU:O	37:35:138:LEU:N	2.36	0.57
1:13:1118:C:H1'	1:13:1179:A:C4	2.38	0.57
1:13:1127:G:H1'	1:13:1148:U:H3	1.68	0.57
7:6E:144:MET:HE1	24:3K:30:G:H21	1.69	0.57
11:2I:85:ARG:HD3	11:2I:113:PRO:HD3	1.85	0.57
11:2I:90:GLY:O	11:2I:94:ALA:N	2.28	0.57
15:6I:25:THR:HG22	15:6I:70:LEU:HD22	1.86	0.57
26:1H:1291:C:H2'	26:1H:1292:U:C6	2.39	0.57
27:16:15:A:H1'	27:16:109:G:C5	2.40	0.57
1:1G:209:U:O2'	1:1G:210:U:H5''	2.05	0.57
1:1G:1325:C:OP2	21:1B:15:ARG:NH2	2.29	0.57
1:1G:1459:C:OP1	20:BA:31:SER:OG	2.15	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:22:58:GLU:HB2	3:22:65:ALA:HB3	1.86	0.57
19:AA:15:LEU:O	19:AA:18:LYS:HG2	2.03	0.57
26:14:815:C:O2	26:14:1193:G:C2	2.57	0.57
26:14:918:A:C8	26:14:919:G:C8	2.92	0.57
26:14:1564:C:O2'	26:14:1565:C:H5'	2.04	0.57
26:14:2607:G:H2'	26:14:2608:G:O4'	2.03	0.57
27:1J:23:G:N2	27:1J:60:C:O2	2.34	0.57
37:35:63:PRO:HG2	55:M5:25:MET:HB3	1.86	0.57
47:D5:52:SER:O	47:D5:54:HIS:N	2.38	0.57
1:13:1023:G:H3'	1:13:1024:G:H5''	1.85	0.57
1:13:1455:G:H8	1:13:1455:G:O5'	1.88	0.57
3:2E:72:LYS:HD3	3:2E:75:VAL:HG21	1.87	0.57
26:1H:195:A:H4'	26:1H:251:A:O2'	2.03	0.57
26:1H:1221:C:H2'	26:1H:1222:C:C6	2.40	0.57
26:1H:1298:C:H5''	26:1H:1299:G:OP2	2.05	0.57
26:1H:1678:G:O5'	26:1H:1678:G:C8	2.55	0.57
26:1H:1820:U:O2	29:11:202:LYS:HB3	2.05	0.57
26:1H:2702:U:H5''	26:1H:2702:U:H6	1.70	0.57
28:71:181:PRO:HD2	28:71:184:LYS:HB3	1.85	0.57
31:31:126:VAL:O	31:31:196:LEU:HD23	2.05	0.57
31:31:192:LEU:HD21	31:31:194:MET:HE2	1.85	0.57
37:78:96:THR:C	37:78:98:GLU:H	2.13	0.57
38:88:20:ALA:HB2	38:88:99:PRO:HD2	1.87	0.57
1:1G:353:A:H5'	1:1G:353:A:C8	2.32	0.57
1:1G:1200:C:H1'	1:1G:1204:A:N6	2.14	0.57
6:52:15:ASP:OD1	6:52:17:SER:N	2.38	0.57
26:14:749:C:H5''	61:14:3842:HOH:O	2.04	0.57
26:14:910:A:H62	38:45:12:GLN:HA	1.69	0.57
26:14:1591:G:H2'	26:14:1592:C:O4'	2.04	0.57
34:69:41:GLU:HA	34:69:44:LEU:HB2	1.86	0.57
38:45:25:ASP:CB	38:45:102:VAL:H	2.07	0.57
1:13:886:G:OP2	61:13:1811:HOH:O	2.18	0.57
1:13:937:A:N6	1:13:1345:U:O4	2.35	0.57
4:3E:108:LEU:HD21	4:3E:183:GLY:HA3	1.85	0.57
26:1H:701:G:C2'	26:1H:702:G:H5'	2.35	0.57
26:1H:1210:A:H5'	26:1H:1210:A:H8	1.69	0.57
26:1H:2102:U:H2'	26:1H:2103:C:C6	2.40	0.57
26:1H:2109:U:H1'	26:1H:2181:G:N2	2.19	0.57
26:1H:2864:G:H2'	26:1H:2865:U:H6	1.68	0.57
33:51:40:GLU:HB2	33:51:41:MET:HE2	1.87	0.57
36:68:120:GLU:HG2	36:68:122:LEU:HG	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:16:ARG:HA	37:78:16:ARG:HE	1.70	0.57
41:B8:27:THR:HG22	41:B8:48:ILE:HG12	1.87	0.57
49:J8:91:LYS:C	49:J8:93:GLU:H	2.12	0.57
1:1G:452:A:H62	1:1G:480:U:H3	1.51	0.57
1:1G:1504:G:H4'	1:1G:1505:G:O4'	2.05	0.57
2:12:116:GLU:HG2	2:12:153:ARG:NH1	2.19	0.57
5:42:103:GLY:O	5:42:106:PRO:HD2	2.04	0.57
9:82:85:LEU:HD11	9:82:96:LEU:HD21	1.86	0.57
57:3L:19:G:N1	26:14:2111:C:O2'	2.36	0.57
26:14:600:G:O3'	31:39:108:LYS:NZ	2.38	0.57
26:14:838:C:O2'	26:14:839:U:H5'	2.05	0.57
26:14:2121:G:H22	26:14:2178:C:H1'	1.68	0.57
26:14:2280:G:O2'	26:14:2388:A:N1	2.30	0.57
26:14:2356:C:H4'	48:E5:20:ARG:HG3	1.85	0.57
27:1J:104:A:H2'	27:1J:105:G:O4'	2.03	0.57
31:39:122:LYS:O	31:39:123:LEU:HG	2.04	0.57
31:39:152:GLU:OE2	31:39:191:ARG:NH1	2.38	0.57
1:13:558:G:H2'	1:13:559:A:H2	1.70	0.57
1:13:983:A:H1'	1:13:1049:U:O2	2.03	0.57
1:13:1127:G:H2'	1:13:1128:C:C2	2.40	0.57
4:3E:112:VAL:HG12	4:3E:116:GLN:OE1	2.04	0.57
20:BI:30:LYS:HE2	20:BI:80:ARG:HH22	1.69	0.57
22:1K:27:G:N2	22:1K:43:U:H3	2.02	0.57
26:1H:533:G:H5'	42:C8:24:TYR:CE1	2.39	0.57
26:1H:1486:A:H2'	26:1H:1487:G:C8	2.37	0.57
26:1H:1971:A:C4	29:11:241:PRO:HD3	2.40	0.57
26:1H:2257:U:O2'	26:1H:2258:C:H5'	2.04	0.57
26:1H:2462:U:H1'	26:1H:2491:U:O4	2.05	0.57
26:1H:2470:G:H8	26:1H:2470:G:O5'	1.87	0.57
26:1H:2533:A:OP1	26:1H:2665:A:H1'	2.05	0.57
29:11:37:LEU:H	29:11:37:LEU:CD2	2.17	0.57
30:21:116:VAL:O	30:21:117:MET:HB3	2.04	0.57
32:41:41:GLN:HG2	32:41:155:MET:HB3	1.86	0.57
32:41:76:SER:OG	32:41:84:LYS:N	2.37	0.57
32:41:102:PHE:HA	32:41:105:LYS:HE2	1.87	0.57
39:98:67:LEU:CD2	39:98:76:VAL:HG21	2.34	0.57
45:F8:25:LYS:HG3	45:F8:82:GLN:OE1	2.04	0.57
1:1G:192:U:C4'	20:BA:103:GLY:HA2	2.34	0.57
1:1G:272:C:H2'	1:1G:273:A:H8	1.69	0.57
1:1G:709:G:H2'	1:1G:710:G:H8	1.69	0.57
1:1G:713:G:H2'	1:1G:714:G:C8	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1106:G:H2'	1:1G:1107:C:C6	2.40	0.57
1:1G:1315:U:H2'	1:1G:1316:G:H5'	1.87	0.57
2:12:188:ALA:O	2:12:203:GLY:N	2.37	0.57
3:22:123:GLN:HA	3:22:126:ARG:HB3	1.87	0.57
8:72:120:THR:N	8:72:123:GLU:OE1	2.38	0.57
26:14:1024:G:C3'	26:14:1025:G:H5''	2.34	0.57
26:14:2118:U:O2	26:14:2148:G:O2'	2.21	0.57
26:14:2425:A:H4'	26:14:2426:A:H5''	1.85	0.57
26:14:2556:C:H2'	26:14:2557:G:O4'	2.04	0.57
33:59:7:LEU:HA	33:59:65:HIS:NE2	2.19	0.57
36:25:9:GLU:O	36:25:83:ALA:HA	2.04	0.57
41:75:112:ARG:HD2	41:75:113:LYS:HD2	1.87	0.57
1:13:5:U:H3	4:3E:87:GLY:HA2	1.70	0.57
1:13:323:U:H2'	1:13:324:G:O4'	2.05	0.57
1:13:674:G:H2'	1:13:675:A:C8	2.39	0.57
2:1E:18:GLY:H	2:1E:42:ILE:HG22	1.70	0.57
26:1H:1187:G:OP2	61:1H:3549:HOH:O	2.18	0.57
26:1H:1439:A:C2	26:1H:1553:A:C5	2.93	0.57
26:1H:1533:C:O2	26:1H:1539:G:N2	2.38	0.57
40:A8:78:LEU:HD12	40:A8:108:GLY:HA3	1.85	0.57
47:H8:7:ALA:HB2	47:H8:59:LEU:HD22	1.86	0.57
49:J8:93:GLU:OE2	49:J8:94:LEU:CG	2.52	0.57
1:1G:684:A:C6	1:1G:685:G:C6	2.93	0.57
1:1G:1162:C:N4	1:1G:1174:G:H1	2.02	0.57
1:1G:1203:C:H2'	1:1G:1204:A:C8	2.40	0.57
3:22:29:TYR:C	3:22:29:TYR:HD1	2.13	0.57
7:62:115:ARG:O	7:62:118:VAL:HG22	2.05	0.57
12:3A:89:ARG:NH1	12:3A:91:LYS:HA	2.20	0.57
14:5A:7:ILE:H	14:5A:7:ILE:HD12	1.70	0.57
57:3L:8:U:H3	57:3L:14:A:N6	2.03	0.57
26:14:607:U:H3	26:14:621:A:H2	1.53	0.57
26:14:698:C:OP1	26:14:1634:A:N6	2.37	0.57
26:14:1019:U:H2'	26:14:1020:A:H8	1.68	0.57
26:14:2138:C:N4	26:14:2153:G:O6	2.38	0.57
26:14:2387:U:H1'	48:E5:41:ARG:NE	2.20	0.57
27:1J:94:C:H2'	27:1J:95:U:C6	2.40	0.57
34:69:120:ILE:HG22	34:69:122:GLU:H	1.69	0.57
1:13:76:G:O4'	1:13:95:G:N1	2.37	0.57
1:13:1171:G:O2'	1:13:1172:C:H5'	2.04	0.57
1:13:1429:C:H2'	1:13:1430:C:H6	1.70	0.57
13:4I:35:GLU:O	13:4I:38:GLY:N	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8I:43:LEU:HD12	17:8I:68:ARG:HG2	1.87	0.57
23:2K:20:G:C2	23:2K:58:A:N3	2.73	0.57
24:3K:53:G:H1	24:3K:61:C:H42	1.53	0.57
24:3K:68:G:H2'	24:3K:69:A:H8	1.70	0.57
26:1H:74:A:H5''	26:1H:74:A:H8	1.69	0.57
26:1H:504:U:O2	26:1H:504:U:H2'	2.05	0.57
26:1H:736:C:O5'	26:1H:736:C:H6	1.87	0.57
26:1H:1022:G:O6	35:58:66:LYS:NZ	2.37	0.57
26:1H:1915:U:H2'	26:1H:1916:A:O4'	2.05	0.57
26:1H:2592:G:C2'	26:1H:2593:U:H5'	2.35	0.57
26:1H:2712:U:H1'	26:1H:2712(A):A:N7	2.19	0.57
29:11:31:LYS:C	29:11:35:LYS:NZ	2.62	0.57
32:41:170:ARG:HH22	32:41:181:ARG:C	2.12	0.57
36:68:112:MET:HG3	36:68:113:LYS:N	2.20	0.57
37:78:115:LEU:HA	37:78:134:ALA:CB	2.34	0.57
1:1G:689:C:H3'	1:1G:690:G:H21	1.70	0.57
1:1G:731:G:OP1	1:1G:766:A:H1'	2.05	0.57
1:1G:1329:A:H2'	1:1G:1330:U:O4'	2.05	0.57
7:62:136:LYS:HZ2	7:62:137:LYS:HZ3	1.48	0.57
8:72:97:VAL:HA	8:72:100:ILE:HD11	1.85	0.57
23:2L:8:4SU:C2	23:2L:14:A:H62	2.18	0.57
26:14:923:C:H2'	26:14:924:C:C6	2.39	0.57
26:14:943:U:OP2	37:35:36:LYS:CD	2.53	0.57
29:19:44:ASN:CB	29:19:47:GLY:H	2.18	0.57
33:59:149:ARG:NH1	33:59:163:TYR:HB3	2.20	0.57
49:F5:78:LYS:O	49:F5:80:LEU:HD22	2.05	0.57
1:13:353:A:H5'	1:13:353:A:C8	2.38	0.56
1:13:652:U:HO2'	1:13:653:A:P	2.27	0.56
2:1E:118:LEU:HD12	2:1E:142:LEU:HB2	1.86	0.56
2:1E:215:LEU:O	2:1E:219:VAL:HG23	2.05	0.56
4:3E:98:GLU:HG3	4:3E:103:ASN:HD21	1.70	0.56
11:2I:79:SER:HB2	11:2I:106:LYS:HD2	1.87	0.56
13:4I:84:ILE:HG23	13:4I:86:CYS:H	1.70	0.56
17:8I:48:GLU:OE1	17:8I:50:LYS:HE2	2.05	0.56
26:1H:825:C:C2'	26:1H:826:U:H5'	2.35	0.56
26:1H:2111:C:C4	26:1H:2145:C:C2	2.93	0.56
26:1H:2292:C:O2'	26:1H:2293:C:H5'	2.05	0.56
26:1H:2721:A:H2'	26:1H:2722:G:O4'	2.05	0.56
29:11:27:THR:C	29:11:29:PRO:CD	2.78	0.56
37:78:15:ARG:HB2	37:78:16:ARG:HG2	1.87	0.56
42:C8:92:ARG:CB	43:D8:11:GLN:NE2	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:222:U:H2'	1:1G:223:U:H6	1.70	0.56
1:1G:426:G:OP1	4:32:36:ARG:NH2	2.37	0.56
3:22:130:VAL:CG1	3:22:134:ILE:HG12	2.31	0.56
7:62:49:ILE:HD13	7:62:118:VAL:HG12	1.87	0.56
26:14:1278:A:H2'	26:14:1279:G:C8	2.39	0.56
26:14:1536:A:C8	26:14:1537:C:H1'	2.40	0.56
26:14:2354:G:N7	61:14:3561:HOH:O	2.33	0.56
26:14:2688:U:H1'	26:14:2721:A:H62	1.69	0.56
37:35:138:LEU:C	37:35:138:LEU:HD13	2.30	0.56
47:D5:5:LEU:HD13	47:D5:6:LYS:N	2.20	0.56
47:D5:27:VAL:HG12	47:D5:87:ASP:HA	1.87	0.56
1:13:813:U:OP2	1:13:816:A:N6	2.32	0.56
2:1E:207:ALA:O	2:1E:210:SER:OG	2.20	0.56
6:5E:46:ARG:HB3	6:5E:60:PHE:CE1	2.40	0.56
7:6E:87:VAL:HG12	7:6E:89:MET:HG3	1.86	0.56
8:7E:16:ALA:HB1	8:7E:24:THR:HG21	1.87	0.56
12:3I:9:GLN:O	12:3I:13:LYS:HG2	2.05	0.56
19:AI:50:ALA:HB1	19:AI:57:HIS:HB3	1.87	0.56
22:1K:10:G:H22	22:1K:26:A:H2'	1.70	0.56
24:3K:34:U:H1'	24:3K:35:U:C5'	2.31	0.56
26:1H:192:C:N3	61:1H:3603:HOH:O	2.32	0.56
26:1H:330:A:O2'	26:1H:331:A:C8	2.57	0.56
26:1H:1899:G:N2	26:1H:1902:C:N4	2.41	0.56
26:1H:2468:G:H4'	26:1H:2468:G:OP1	2.05	0.56
28:71:65:PRO:HG2	28:71:66:HIS:HD2	1.71	0.56
31:31:127:GLU:O	31:31:129:PHE:N	2.36	0.56
3:22:18:TRP:NE1	14:5A:54:PRO:HA	2.21	0.56
5:42:42:GLY:HA3	5:42:65:ASN:O	2.04	0.56
5:42:140:ARG:O	5:42:143:ARG:NH1	2.32	0.56
57:3L:12:U:H3'	57:3L:13:C:C6	2.40	0.56
26:14:958:U:O2	27:1J:89(A):A:O2'	2.19	0.56
26:14:1035:U:H5''	33:59:59:ARG:HB3	1.86	0.56
26:14:1291:C:H2'	26:14:1292:U:C6	2.41	0.56
26:14:1729:A:H2	26:14:1730:U:H5	1.53	0.56
26:14:2142:C:H2'	26:14:2143:C:C6	2.40	0.56
26:14:2553:G:H5''	26:14:2554:U:OP2	2.03	0.56
26:14:2600:A:H2'	26:14:2601:C:C6	2.40	0.56
1:13:877:C:H5''	8:7E:88:LYS:HD3	1.86	0.56
1:13:1391:U:H2'	1:13:1392:G:C8	2.40	0.56
2:1E:46:LYS:HA	2:1E:49:GLU:OE1	2.04	0.56
2:1E:195:ASP:O	8:7E:74:PRO:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:8E:29:ASN:N	9:8E:63:ILE:O	2.31	0.56
13:4I:34:LEU:HD13	13:4I:41:PRO:HA	1.87	0.56
13:4I:58:GLU:O	13:4I:62:ASN:ND2	2.31	0.56
14:5I:21:TYR:HE2	14:5I:23:ARG:NE	2.03	0.56
14:5I:53:LEU:HB3	14:5I:56:VAL:CG2	2.35	0.56
16:7I:72:ARG:HD3	16:7I:73:LEU:HD23	1.88	0.56
18:9I:58:LEU:HD23	18:9I:63:GLN:HA	1.86	0.56
19:AI:22:LEU:HD12	19:AI:25:LYS:HG2	1.87	0.56
24:3K:34:U:HO2'	24:3K:35:U:P	2.28	0.56
24:3K:67:C:H2'	24:3K:68:G:C8	2.40	0.56
26:1H:155:C:H5'	26:1H:161:U:OP2	2.05	0.56
26:1H:2296:U:H4'	26:1H:2297:C:OP1	2.05	0.56
26:1H:2468:G:O4'	26:1H:2468:G:N3	2.36	0.56
26:1H:2785:C:H2'	26:1H:2786:U:O4'	2.06	0.56
27:16:79:C:O5'	27:16:79:C:H6	1.89	0.56
29:11:238:GLY:O	29:11:239:ARG:HB2	2.05	0.56
38:88:66:ILE:CG1	38:88:67:ARG:H	2.17	0.56
45:F8:36:LYS:HG2	45:F8:54:VAL:CG2	2.34	0.56
46:G8:15:VAL:HG21	46:G8:42:VAL:HG21	1.87	0.56
46:G8:87:LYS:HD3	46:G8:88:LYS:N	2.19	0.56
47:H8:152:ALA:HB3	47:H8:167:PRO:O	2.06	0.56
50:K8:5:GLU:OE2	50:K8:6:VAL:N	2.38	0.56
50:K8:64:LEU:HD11	50:K8:68:ARG:HH11	1.70	0.56
1:1G:340:U:H2'	1:1G:341:C:C6	2.40	0.56
1:1G:657:G:N2	15:6A:22:THR:OG1	2.38	0.56
1:1G:1192:C:P	3:22:4:LYS:HZ2	2.28	0.56
1:1G:1348:U:N3	1:1G:1374:A:H2	2.02	0.56
3:22:8:ILE:HD12	3:22:16:ARG:HG2	1.87	0.56
3:22:42:LEU:HA	3:22:45:LYS:HD3	1.86	0.56
4:32:8:VAL:HG22	4:32:115:ARG:HH12	1.69	0.56
10:1A:48:THR:HA	10:1A:62:HIS:CB	2.35	0.56
12:3A:20:LYS:HD2	12:3A:21:LYS:H	1.70	0.56
56:1L:37:A:O2'	26:14:1913:A:N6	2.38	0.56
26:14:67:U:H3	26:14:74:A:H2	1.53	0.56
26:14:140:A:C8	26:14:1408:C:O2'	2.57	0.56
26:14:155:C:N3	26:14:171:G:N1	2.52	0.56
26:14:353:G:H2'	26:14:354:G:H8	1.70	0.56
26:14:1052:C:H42	26:14:1107:G:H1	1.54	0.56
26:14:1441:G:H2'	26:14:1442:G:C8	2.40	0.56
26:14:1607:C:H4'	26:14:1608:A:O5'	2.06	0.56
26:14:1846:G:N2	26:14:1894:C:O2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2121:G:N1	26:14:2178:C:O2	2.38	0.56
26:14:2141:G:N2	26:14:2150:U:O2	2.30	0.56
26:14:2346:A:H5''	26:14:2383:G:H1'	1.87	0.56
26:14:2543:G:H2'	26:14:2544:G:C8	2.40	0.56
26:14:2578:G:OP1	26:14:2614:A:N6	2.32	0.56
31:39:53:THR:HG22	31:39:55:GLY:N	2.12	0.56
32:49:170:ARG:NH2	32:49:174:GLU:OE1	2.34	0.56
33:59:8:PRO:HG2	33:59:69:ARG:CZ	2.35	0.56
36:25:13:ASN:O	36:25:15:GLY:N	2.38	0.56
1:13:297:G:H4'	1:13:557:G:H4'	1.88	0.56
1:13:390:C:H2'	1:13:391:G:C8	2.40	0.56
1:13:1198:G:HO2'	10:1I:54:PHE:HD2	1.53	0.56
1:13:1318:A:H2'	1:13:1319:A:H5''	1.87	0.56
10:1I:40:LEU:HB2	10:1I:69:ASN:CB	2.34	0.56
26:1H:2055:C:H4'	26:1H:2056:G:H5''	1.88	0.56
26:1H:2789:C:H1'	26:1H:2892:A:H2	1.71	0.56
26:1H:2795:G:H2'	26:1H:2798:C:OP2	2.04	0.56
36:68:7:TYR:HE1	36:68:20:MET:HE3	1.69	0.56
38:88:5:ARG:HH21	38:88:6:ARG:CD	2.18	0.56
40:A8:28:VAL:HG11	40:A8:98:VAL:HG12	1.86	0.56
1:1G:193:C:H2'	1:1G:194:C:H6	1.70	0.56
2:12:82:ARG:HH22	2:12:150:SER:HB3	1.70	0.56
57:3L:48:C:N4	57:3L:59:A:N3	2.53	0.56
26:14:66:C:H2'	26:14:67:U:O4'	2.05	0.56
26:14:1388:G:H2'	26:14:1389:G:C8	2.39	0.56
26:14:1751:C:H2'	26:14:1752:C:C6	2.40	0.56
26:14:2127:G:H1	26:14:2161:C:N4	1.98	0.56
26:14:2270:G:OP2	61:14:3534:HOH:O	2.17	0.56
26:14:2685:G:O6	61:14:3523:HOH:O	2.10	0.56
29:19:43:ARG:HG2	29:19:49:ILE:CA	2.35	0.56
30:29:51:PHE:CG	30:29:52:LEU:N	2.73	0.56
32:49:145:THR:HG1	32:49:148:MET:N	1.99	0.56
45:B5:27:THR:CG2	45:B5:80:ILE:HG22	2.32	0.56
51:H5:6:VAL:HG12	51:H5:56:VAL:HB	1.87	0.56
1:13:437:U:H5''	4:3E:155:LEU:HD21	1.88	0.56
1:13:1429:C:H2'	1:13:1430:C:C6	2.40	0.56
7:6E:44:TYR:HA	7:6E:47:CYS:SG	2.46	0.56
15:6I:53:HIS:ND1	15:6I:53:HIS:O	2.39	0.56
23:2K:32:G:H2'	23:2K:33:OMC:H6	1.69	0.56
26:1H:710:G:H1	26:1H:721:C:H42	1.52	0.56
26:1H:748:G:C8	44:E8:89:ALA:HB1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:817:C:H4'	26:1H:932:G:C5	2.41	0.56
26:1H:900:A:H2'	26:1H:901:A:H8	1.71	0.56
26:1H:1279:G:H4'	39:98:31:HIS:CD2	2.40	0.56
26:1H:1790:C:H2'	26:1H:1791:A:C5	2.41	0.56
26:1H:1858:G:H1'	26:1H:1883:G:N2	2.19	0.56
26:1H:2714:G:O5'	26:1H:2714:G:H8	1.88	0.56
29:11:70:TRP:CG	29:11:150:LYS:HZ2	2.23	0.56
40:A8:58:LEU:HD12	40:A8:68:GLN:OE1	2.05	0.56
49:J8:7:ILE:HD12	49:J8:62:VAL:HG11	1.87	0.56
1:1G:1008:C:H42	1:1G:1021:G:H22	1.52	0.56
5:42:76:ILE:HG22	5:42:78:HIS:H	1.71	0.56
7:62:23:VAL:HG13	7:62:43:PHE:HE2	1.70	0.56
26:14:470:A:H5'	26:14:470:A:C8	2.39	0.56
26:14:662:G:H5'	37:35:15:ARG:CA	2.36	0.56
26:14:824:A:H1'	26:14:2358:G:N7	2.21	0.56
26:14:1342:A:H2	26:14:1602:U:N3	2.03	0.56
26:14:1500:G:O2'	29:19:100:GLY:O	2.23	0.56
26:14:2166:G:O2'	26:14:2168:G:OP2	2.20	0.56
26:14:2567:G:H2'	26:14:2568:C:C6	2.40	0.56
32:49:12:TYR:O	32:49:17:PRO:HD3	2.05	0.56
38:45:34:LEU:HD11	38:45:129:THR:HB	1.86	0.56
43:95:7:THR:HG23	43:95:22:VAL:HG21	1.86	0.56
46:C5:76:CYS:CB	46:C5:97:ARG:HG3	2.36	0.56
1:13:134:A:H61	16:7I:25:ARG:NH1	2.04	0.56
1:13:240:C:H2'	1:13:241:C:H6	1.69	0.56
2:1E:121:LEU:HB3	2:1E:127:ILE:CG2	2.35	0.56
3:2E:46:GLU:HB2	3:2E:47:LEU:HD22	1.88	0.56
5:4E:48:ALA:HB2	5:4E:57:LYS:HD3	1.87	0.56
23:2K:62:C:H2'	23:2K:63:C:C6	2.40	0.56
24:3K:15:G:H22	24:3K:48:C:H41	1.54	0.56
26:1H:49:A:H5''	26:1H:51:G:H5''	1.88	0.56
26:1H:445:C:O2'	26:1H:446:G:H5'	2.05	0.56
26:1H:572:A:H5''	26:1H:573:G:OP2	2.05	0.56
26:1H:1429:G:O2'	26:1H:1430:C:H5'	2.05	0.56
26:1H:1766:U:O2'	26:1H:1767:C:H5'	2.05	0.56
26:1H:2175:C:H5'	28:71:3:HIS:ND1	2.21	0.56
26:1H:2750:A:H3'	33:51:4:ILE:CD1	2.36	0.56
27:16:73:A:C4	27:16:104:A:C2	2.93	0.56
29:11:119:ALA:HB1	29:11:130:ALA:HB3	1.86	0.56
32:41:11:TYR:OH	32:41:16:ARG:NH1	2.39	0.56
34:61:58:LEU:HG	34:61:59:ALA:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:97:ASP:OD2	42:C8:101:ARG:NH2	2.39	0.56
47:H8:163:LEU:HD13	47:H8:165:VAL:HA	1.87	0.56
50:K8:50:ILE:HD12	50:K8:51:ARG:H	1.70	0.56
1:1G:293:G:H4'	1:1G:609:A:N1	2.21	0.56
1:1G:382:A:H2'	1:1G:383:A:C8	2.41	0.56
1:1G:841:U:H3'	1:1G:841:U:H6	1.71	0.56
1:1G:1017:G:H2'	1:1G:1018:C:C6	2.41	0.56
1:1G:1359:C:O2'	1:1G:1362:C:N4	2.38	0.56
8:72:11:THR:HG23	8:72:14:ARG:HH12	1.70	0.56
13:4A:39:ILE:HD11	13:4A:55:ARG:HH22	1.71	0.56
14:5A:24:CYS:SG	14:5A:25:VAL:N	2.77	0.56
16:7A:22:THR:HA	16:7A:33:ILE:HD12	1.87	0.56
16:7A:57:ARG:NH2	16:7A:79:VAL:O	2.33	0.56
17:8A:23:VAL:O	17:8A:39:SER:HA	2.06	0.56
26:14:34:C:O2'	26:14:35:G:H8	1.88	0.56
26:14:531:C:OP1	26:14:561:G:N2	2.38	0.56
26:14:809:G:H2'	26:14:810:U:O4'	2.06	0.56
26:14:1593:G:H2'	26:14:1594:G:C8	2.40	0.56
26:14:1678:G:N2	26:14:1989:G:N2	2.52	0.56
26:14:1804:C:O5'	26:14:1804:C:H6	1.89	0.56
31:39:154:VAL:HA	31:39:191:ARG:O	2.05	0.56
34:69:8:PRO:CD	34:69:15:VAL:HG22	2.36	0.56
34:69:114:LEU:O	34:69:114:LEU:HD13	2.05	0.56
38:45:103:MET:O	38:45:104:PHE:HB2	2.06	0.56
47:D5:28:MET:O	47:D5:35:ARG:N	2.31	0.56
49:F5:79:GLY:O	49:F5:80:LEU:HD13	2.05	0.56
53:J5:31:VAL:HG13	53:J5:42:PRO:HG3	1.88	0.56
2:1E:136:VAL:O	2:1E:140:HIS:N	2.34	0.56
6:5E:28:ARG:O	6:5E:32:ASN:ND2	2.37	0.56
11:2I:41:THR:CG2	11:2I:71:LYS:HD2	2.31	0.56
24:3K:40:C:H5'	24:3K:41:A:OP2	2.05	0.56
26:1H:298:G:N7	46:G8:84:ARG:NH2	2.53	0.56
26:1H:456:C:H4'	26:1H:457:A:OP1	2.03	0.56
26:1H:653:A:H4'	26:1H:654:A:OP1	2.06	0.56
26:1H:1693:U:O2'	29:11:14:ARG:NH2	2.39	0.56
26:1H:2533:A:H2'	26:1H:2534:A:O4'	2.06	0.56
26:1H:2685:G:H5'	36:68:68:GLU:OE1	2.06	0.56
38:88:78:PRO:HB2	38:88:81:VAL:HG11	1.87	0.56
41:B8:56:GLY:O	41:B8:59:THR:HG23	2.06	0.56
42:C8:88:ILE:C	42:C8:90:VAL:H	2.13	0.56
43:D8:76:LYS:O	43:D8:79:VAL:HG12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:42:G:H1	1:1G:400:C:H42	1.53	0.56
1:1G:191(F):U:O2	20:BA:105:SER:OG	2.14	0.56
1:1G:1010:G:C2	1:1G:1011:G:C4	2.94	0.56
1:1G:1112:C:C4	3:22:178:LEU:HD23	2.41	0.56
1:1G:1224:G:C6	1:1G:1322:C:H1'	2.41	0.56
4:32:61:LYS:HD2	4:32:61:LYS:C	2.31	0.56
10:1A:25:GLU:O	10:1A:29:ARG:HB3	2.06	0.56
20:BA:10:LEU:HD13	20:BA:12:ALA:H	1.70	0.56
57:3L:11:C:N4	57:3L:24:G:H1	2.04	0.56
26:14:389:G:N1	37:35:71:VAL:HG12	2.21	0.56
26:14:479:A:N3	26:14:481:G:H5''	2.19	0.56
26:14:780:G:N2	26:14:783:A:H62	2.02	0.56
26:14:1759:A:H4'	26:14:2715:C:O4'	2.06	0.56
26:14:1843:C:H5'	29:19:253:GLN:OE1	2.06	0.56
26:14:2633:G:H1'	30:29:62:PRO:HG2	1.86	0.56
31:39:74:ARG:HG3	31:39:74:ARG:O	2.05	0.56
43:95:85:LYS:HD2	43:95:87:HIS:HA	1.86	0.56
45:B5:5:TYR:CE2	50:G5:30:ARG:HB2	2.40	0.56
47:D5:93:ASP:HB2	47:D5:131:ARG:HH21	1.70	0.56
1:13:276:G:C6	1:13:277:C:C4	2.94	0.56
4:3E:173:TRP:HB2	4:3E:187:ARG:O	2.06	0.56
5:4E:51:VAL:CG1	5:4E:52:PRO:HD3	2.36	0.56
6:5E:42:GLU:OE1	6:5E:59:TYR:OH	2.23	0.56
7:6E:15:ASP:HB3	7:6E:20:ASP:N	2.20	0.56
7:6E:115:ARG:O	7:6E:118:VAL:HG12	2.06	0.56
26:1H:950:G:H2'	26:1H:951:C:H6	1.70	0.56
26:1H:992:C:H2'	26:1H:993:G:H8	1.70	0.56
26:1H:1470:G:N7	61:1H:3607:HOH:O	2.33	0.56
31:31:153:SER:HB2	31:31:189:THR:HA	1.88	0.56
37:78:50:ARG:HH21	37:78:50:ARG:HG3	1.70	0.56
41:B8:54:ARG:HA	41:B8:59:THR:HB	1.86	0.56
45:F8:57:LEU:N	45:F8:57:LEU:HD23	2.21	0.56
1:1G:198:G:H2'	1:1G:199:G:C8	2.41	0.56
1:1G:339:C:H2'	1:1G:340:U:C6	2.41	0.56
1:1G:1082:G:H8	1:1G:1082:G:OP2	1.88	0.56
1:1G:1104:G:H2'	1:1G:1105:A:H5'	1.87	0.56
1:1G:1218:C:P	14:5A:9:LYS:HZ1	2.28	0.56
1:1G:1423:G:H2'	1:1G:1424:C:C6	2.36	0.56
3:22:72:LYS:HZ1	3:22:75:VAL:HG23	1.71	0.56
8:72:99:GLU:HG2	8:72:100:ILE:N	2.19	0.56
10:1A:32:ALA:HB1	10:1A:76:ASN:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8A:88:TYR:HA	17:8A:91:ARG:CD	2.36	0.56
20:BA:23:ARG:HH22	20:BA:27:LYS:HD2	1.71	0.56
26:14:536:A:H4'	42:85:57:PHE:CZ	2.41	0.56
26:14:565:C:H4'	26:14:1253:A:C6	2.41	0.56
26:14:1639:U:OP1	61:14:3535:HOH:O	2.18	0.56
30:29:68:ALA:C	30:29:70:ALA:N	2.62	0.56
32:49:105:LYS:HG3	32:49:106:LEU:HD13	1.86	0.56
47:D5:10:ARG:HH21	47:D5:26:GLY:H	1.51	0.56
47:D5:19:ARG:NH1	47:D5:84:GLU:O	2.38	0.56
1:13:881:G:P	12:3I:12:ARG:HH22	2.29	0.56
1:13:1305:G:H8	1:13:1305:G:OP2	1.89	0.56
2:1E:27:LYS:HD3	2:1E:193:ASP:HB2	1.88	0.56
3:2E:20:SER:OG	3:2E:40:ARG:NH2	2.23	0.56
12:3I:70:ILE:HG12	12:3I:100:ILE:HD12	1.86	0.56
26:1H:878:A:N6	26:1H:899:A:H1'	2.21	0.56
26:1H:918:A:N3	27:16:80:U:O2'	2.38	0.56
26:1H:1513:C:C5	26:1H:1514:U:H5	2.24	0.56
26:1H:2027:G:C5	26:1H:2028:U:C5	2.93	0.56
27:16:12:C:N3	48:I8:74:ARG:NH1	2.54	0.56
27:16:13:A:N1	27:16:69:G:O2'	2.33	0.56
27:16:83:G:C6	27:16:84:C:C5	2.94	0.56
33:51:20:ALA:HB1	33:51:21:PRO:HD2	1.87	0.56
49:J8:87:PRO:O	49:J8:91:LYS:HE2	2.06	0.56
1:1G:562:C:O2'	12:3A:17:LYS:HG2	2.06	0.56
1:1G:937:A:H1'	1:1G:1379:G:N2	2.20	0.56
1:1G:1127:G:O2'	1:1G:1128:C:H5'	2.05	0.56
3:22:70:VAL:HG12	3:22:72:LYS:N	2.18	0.56
57:3L:69:A:C6	57:3L:70:C:N4	2.74	0.56
26:14:724:U:H2'	26:14:725:G:O4'	2.06	0.56
26:14:909:A:O2'	26:14:910:A:H5''	2.06	0.56
26:14:1338:G:N3	26:14:1393:A:H2	2.03	0.56
26:14:1871:A:H2'	26:14:1872:A:C8	2.41	0.56
26:14:2312:U:H5''	32:49:74:LYS:HZ3	1.71	0.56
26:14:2370:G:C6	26:14:2371:G:C6	2.94	0.56
38:45:42:ILE:HD13	38:45:97:VAL:CG2	2.36	0.56
47:D5:69:THR:HG22	47:D5:90:VAL:HG22	1.86	0.56
1:13:188:U:O2'	1:13:189:U:OP1	2.24	0.56
1:13:458:C:H2'	1:13:464:G:O4'	2.05	0.56
1:13:1135:U:H4'	1:13:1136:U:H5	1.70	0.56
1:13:1194:U:H2'	1:13:1195:C:C6	2.41	0.56
2:1E:21:ARG:HB2	2:1E:39:ILE:HD13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:98:GLU:HG2	4:3E:189:PRO:HG2	1.87	0.56
11:2I:98:LEU:O	11:2I:101:SER:OG	2.18	0.56
12:3I:93:LEU:O	12:3I:96:VAL:HG12	2.05	0.56
18:9I:53:ARG:HA	18:9I:56:THR:HG22	1.89	0.56
26:1H:443:A:H3'	31:31:45:ARG:NH2	2.20	0.56
26:1H:1170:G:N2	26:1H:1180:C:C2	2.73	0.56
26:1H:1337:G:H2'	26:1H:1338:G:H8	1.70	0.56
26:1H:2336:A:H61	48:I8:43:THR:CG2	2.18	0.56
28:7I:23:ASP:HB2	28:7I:190:ARG:HH22	1.71	0.56
30:2I:87:GLU:OE1	30:2I:87:GLU:N	2.38	0.56
37:78:64:LYS:HD2	55:Q8:12:LYS:HB3	1.87	0.56
39:98:12:ARG:HD3	39:98:16:HIS:CD2	2.41	0.56
41:B8:3:ARG:O	41:B8:6:LEU:N	2.39	0.56
43:D8:18:LEU:HD13	43:D8:20:LEU:HB2	1.87	0.56
47:H8:5:LEU:HD23	47:H8:47:VAL:HG21	1.87	0.56
50:K8:30:ARG:O	50:K8:34:GLU:HG3	2.06	0.56
54:P8:5:TRP:CD1	54:P8:7:PRO:HG3	2.41	0.56
1:1G:601:C:H2'	1:1G:602:A:C8	2.41	0.56
1:1G:1015:A:H2'	1:1G:1016:A:H8	1.71	0.56
1:1G:1053:G:N7	1:1G:1199:U:H3'	2.21	0.56
1:1G:1137:C:H1'	1:1G:1138:G:C2	2.41	0.56
1:1G:1401:G:OP1	25:4L:18:G:O2'	2.20	0.56
8:72:26:VAL:O	8:72:59:LEU:N	2.37	0.56
18:9A:36:ASN:OD1	18:9A:39:VAL:HB	2.06	0.56
26:14:896:A:H5'	26:14:897:C:H6	1.71	0.56
26:14:1149:G:H2'	26:14:1150:C:C6	2.41	0.56
26:14:1585:C:O2	26:14:1585:C:H2'	2.06	0.56
26:14:1899:G:HO2'	26:14:1900:A:P	2.29	0.56
26:14:2259:G:C2	26:14:2282:G:N1	2.74	0.56
26:14:2712:U:O2'	26:14:2712(A):A:O5'	2.20	0.56
26:14:2787:C:O2'	30:29:61:ARG:O	2.17	0.56
35:15:13:TRP:HB2	35:15:133:GLN:HB2	1.88	0.56
35:15:49:GLY:H	35:15:119:ARG:NH1	2.03	0.56
36:25:34:THR:HG22	36:25:37:ASP:OD2	2.06	0.56
38:45:78:PRO:HG3	38:45:87:LYS:HD3	1.88	0.56
1:13:247:G:C5	1:13:248:C:H5	2.24	0.55
1:13:491:G:H2'	1:13:492:G:C8	2.39	0.55
1:13:711:G:O2'	1:13:712:A:H5'	2.06	0.55
1:13:1234:C:O2'	1:13:1235:U:H5'	2.05	0.55
2:1E:20:GLU:HB3	2:1E:23:ARG:HD2	1.87	0.55
2:1E:47:THR:O	2:1E:51:LEU:N	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:73:THR:HA	2:1E:96:ARG:NH2	2.20	0.55
3:2E:18:TRP:CD1	14:5I:54:PRO:HA	2.41	0.55
4:3E:31:CYS:C	4:3E:33:MET:H	2.14	0.55
4:3E:49:ARG:CZ	4:3E:49:ARG:HB2	2.36	0.55
19:AI:23:ASN:ND2	19:AI:43:GLU:HB2	2.21	0.55
26:1H:550:G:H2'	26:1H:551:G:C8	2.40	0.55
26:1H:1496:A:H8	26:1H:1577:C:HO2'	1.55	0.55
26:1H:2692:C:O2	26:1H:2847:U:H4'	2.05	0.55
34:6I:113:ARG:HD2	34:6I:131:LYS:HB2	1.88	0.55
37:78:29:LYS:HG2	37:78:30:THR:N	2.22	0.55
1:1G:419:C:H42	1:1G:424:G:H1	1.52	0.55
1:1G:521:G:O5'	12:3A:73:GLU:HG2	2.05	0.55
1:1G:588:G:H1	1:1G:651:C:N4	2.04	0.55
1:1G:1104:G:C2'	1:1G:1105:A:H5'	2.36	0.55
1:1G:1300:G:N1	1:1G:1335:C:O4'	2.39	0.55
6:52:96:PRO:HB3	18:9A:30:ASP:CG	2.31	0.55
7:62:46:ALA:O	7:62:50:ILE:N	2.38	0.55
23:2L:2:G:N3	23:2L:2:G:H2'	2.20	0.55
26:14:1499:C:H2'	26:14:1500:G:H8	1.70	0.55
29:19:133:LEU:HD13	29:19:173:VAL:CG2	2.36	0.55
30:29:119:ARG:NH1	30:29:120:TRP:HZ2	2.02	0.55
32:49:136:ARG:NH2	32:49:154:GLY:N	2.54	0.55
37:35:52:GLU:O	37:35:54:GLY:N	2.38	0.55
40:65:87:PHE:CE1	40:65:102:ALA:HB2	2.41	0.55
45:B5:51:VAL:H	45:B5:83:VAL:HG23	1.71	0.55
1:13:45:U:H2'	1:13:46:G:C8	2.41	0.55
1:13:311:C:H2'	1:13:312:C:H6	1.71	0.55
1:13:1177:G:OP1	1:13:1177:G:H4'	2.05	0.55
1:13:1351:U:H1'	7:6E:33:ASP:O	2.05	0.55
4:3E:108:LEU:HD23	4:3E:110:PHE:HE1	1.71	0.55
26:1H:443:A:H1'	26:1H:1201:C:O4'	2.06	0.55
26:1H:654:A:H2	26:1H:654(A):A:H3'	1.71	0.55
26:1H:872:A:H4'	38:88:66:ILE:HD11	1.87	0.55
26:1H:1542:G:OP2	26:1H:1543:A:O2'	2.22	0.55
26:1H:2749:A:H1'	33:51:63:SER:OG	2.06	0.55
34:6I:21:VAL:HG21	34:6I:25:TYR:HD2	1.69	0.55
39:98:50:HIS:NE2	39:98:54:LEU:HD21	2.21	0.55
41:B8:41:ARG:HB2	41:B8:41:ARG:NH1	2.21	0.55
1:1G:930:C:N4	1:1G:931:C:C4	2.74	0.55
1:1G:1248:A:N3	9:82:70:LYS:NZ	2.53	0.55
5:42:16:THR:OG1	5:42:17:ALA:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3A:28:LYS:HD2	12:3A:33:ARG:HH12	1.71	0.55
13:4A:84:ILE:HD12	19:AA:74:PHE:CZ	2.41	0.55
20:BA:49:ALA:HB2	20:BA:92:LEU:HD22	1.87	0.55
26:14:6:A:H2'	35:15:131:GLN:NE2	2.22	0.55
26:14:640:C:H5''	26:14:641:C:OP2	2.06	0.55
26:14:863:A:H2'	26:14:864:G:H8	1.68	0.55
26:14:1141:U:OP2	35:15:63:THR:OG1	2.14	0.55
26:14:2366:A:H2'	26:14:2367:G:O4'	2.06	0.55
26:14:2611:U:H6	26:14:2611:U:C5'	2.13	0.55
27:1J:20:C:H42	27:1J:63:G:H1	1.54	0.55
30:29:68:ALA:O	30:29:70:ALA:N	2.36	0.55
37:35:86:LYS:HB3	37:35:117:GLU:O	2.07	0.55
38:45:57:HIS:ND1	38:45:117:ALA:HB2	2.20	0.55
45:B5:63:LYS:HA	45:B5:72:LYS:HA	1.88	0.55
46:C5:21:LYS:O	46:C5:23:ARG:NH2	2.39	0.55
49:F5:85:LEU:O	49:F5:85:LEU:HD12	2.06	0.55
1:13:192:U:H4'	20:BI:57:ARG:HD2	1.88	0.55
1:13:964:A:N3	1:13:969:A:O2'	2.37	0.55
1:13:1167:A:C6	1:13:1169:A:C6	2.95	0.55
1:13:1177:G:C8	1:13:1178:G:C2	2.94	0.55
9:8E:16:ARG:O	9:8E:63:ILE:HG23	2.07	0.55
14:5I:29:ARG:HH12	14:5I:31:ARG:HB2	1.69	0.55
26:1H:104:U:H2'	26:1H:105:C:H5'	1.89	0.55
26:1H:274:G:N2	26:1H:276:A:H61	2.04	0.55
26:1H:1022:G:N2	26:1H:1142(A):A:N1	2.46	0.55
26:1H:1317:A:H2'	26:1H:1318:C:H6	1.70	0.55
26:1H:1761:C:H42	26:1H:1762:A:H62	1.53	0.55
26:1H:2611:U:H6	26:1H:2611:U:H5'	1.72	0.55
27:16:75:G:H21	47:H8:85:HIS:CE1	2.25	0.55
29:11:113:VAL:O	29:11:113:VAL:HG22	2.07	0.55
33:51:155:SER:HB2	33:51:156:ALA:C	2.32	0.55
38:88:39:PRO:HA	38:88:97:VAL:O	2.07	0.55
39:98:51:LEU:HD22	39:98:66:VAL:HG13	1.88	0.55
40:A8:67:ARG:HG2	40:A8:71:ARG:NH1	2.21	0.55
41:B8:78:LEU:HD12	41:B8:79:HIS:CE1	2.41	0.55
43:D8:39:LEU:O	43:D8:40:LEU:HD22	2.05	0.55
1:1G:1289:A:OP2	21:1B:9:ARG:NH2	2.39	0.55
19:AA:56:GLN:HE22	19:AA:59:PRO:HG3	1.71	0.55
26:14:1138:G:H21	35:15:106:MET:HE3	1.71	0.55
26:14:2305:A:H8	32:49:156:ASP:OD1	1.90	0.55
27:1J:66:A:C2	27:1J:108:C:C4	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:105:LYS:HG2	32:49:106:LEU:HD13	1.89	0.55
37:35:136:GLU:O	37:35:139:LYS:N	2.39	0.55
1:13:342:C:H2'	1:13:343:U:H5'	1.87	0.55
1:13:490:G:OP1	4:3E:151:LYS:HE3	2.06	0.55
1:13:626:U:H2'	1:13:627:G:C8	2.41	0.55
1:13:651:C:H2'	1:13:652:U:C6	2.40	0.55
1:13:1454:G:OP1	20:BI:39:LYS:HD2	2.06	0.55
3:2E:47:LEU:O	3:2E:51:GLY:N	2.40	0.55
26:1H:1213:A:H1'	26:1H:1238:G:N3	2.22	0.55
26:1H:1478:G:H2'	26:1H:1479:G:H8	1.71	0.55
26:1H:2244:U:H2'	26:1H:2245:U:O4'	2.06	0.55
44:E8:88:ARG:HB3	44:E8:92:ARG:CB	2.34	0.55
1:1G:1438:G:OP2	20:BA:34:LYS:NZ	2.40	0.55
5:42:147:ASP:O	5:42:151:LEU:HG	2.07	0.55
23:2L:1:C:P	38:45:87:LYS:HE2	2.46	0.55
26:14:370:G:H4'	26:14:371:A:OP2	2.05	0.55
26:14:660:G:H21	37:35:12:ALA:HA	1.71	0.55
26:14:920:G:H2'	26:14:921:G:C8	2.42	0.55
26:14:1532:C:H42	26:14:1539:G:H1	1.54	0.55
26:14:2312:U:C5	26:14:2313:C:C4	2.94	0.55
31:39:103:LYS:HA	31:39:106:ARG:HG3	1.89	0.55
32:49:136:ARG:NH1	32:49:154:GLY:C	2.65	0.55
1:13:321:A:C2	1:13:333:G:C2	2.95	0.55
1:13:451:A:OP1	1:13:481:G:N2	2.27	0.55
1:13:622:A:C8	1:13:623:C:C6	2.94	0.55
1:13:1171:G:H2'	1:13:1172:C:C6	2.41	0.55
2:1E:61:LEU:HD23	2:1E:68:ILE:HD11	1.89	0.55
15:6I:15:PHE:CE1	15:6I:84:LYS:HE2	2.42	0.55
26:1H:85:G:OP2	46:G8:9:LYS:HB2	2.06	0.55
26:1H:581:C:H2'	26:1H:582:G:H8	1.71	0.55
26:1H:1473:G:H8	26:1H:1473:G:O5'	1.90	0.55
26:1H:1513:C:C4	26:1H:1514:U:C5	2.95	0.55
27:16:116:G:H4'	40:A8:54:LEU:CD1	2.36	0.55
29:11:141:VAL:HA	29:11:163:ALA:O	2.07	0.55
37:78:97:PRO:HD3	37:78:126:VAL:O	2.07	0.55
41:B8:58:ASN:O	41:B8:58:ASN:ND2	2.39	0.55
1:1G:596:C:H2'	1:1G:597:G:C8	2.41	0.55
1:1G:922:G:H21	1:1G:1398:A:H2	1.54	0.55
1:1G:991:U:C5	1:1G:1212:U:H1'	2.42	0.55
9:82:16:ARG:O	9:82:63:ILE:HG23	2.07	0.55
9:82:113:LYS:H	9:82:119:ALA:CB	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1B:10:ARG:HA	21:1B:13:ILE:HD12	1.87	0.55
26:14:117:G:OP1	26:14:124:G:N1	2.39	0.55
26:14:2068:U:N3	26:14:2430:A:H2	2.02	0.55
26:14:2760:C:H2'	26:14:2761:G:C8	2.42	0.55
27:1J:6:C:C2	27:1J:115:G:N2	2.75	0.55
34:69:135:GLU:N	34:69:135:GLU:OE2	2.38	0.55
42:85:92:ARG:C	42:85:94:ASN:N	2.63	0.55
1:13:109:A:N7	1:13:326:G:H2'	2.22	0.55
1:13:1139:G:H22	1:13:1143:G:H1	1.55	0.55
12:3I:110:VAL:CG2	12:3I:120:TYR:HB3	2.36	0.55
13:4I:39:ILE:HD12	13:4I:56:LEU:HD22	1.89	0.55
18:9I:58:LEU:HG	18:9I:62:GLU:HB3	1.87	0.55
26:1H:1324:G:C4	26:1H:1328:G:O6	2.59	0.55
26:1H:1365:A:OP1	49:J8:41:ARG:NH2	2.40	0.55
26:1H:1386:C:H2'	26:1H:1387:C:C6	2.41	0.55
26:1H:1448:G:N2	26:1H:1449:A:N6	2.54	0.55
26:1H:1570:A:H5'	29:11:37:LEU:HD22	1.87	0.55
26:1H:1988:C:H2'	26:1H:1989:G:C8	2.41	0.55
26:1H:2296:U:OP2	40:A8:9:ARG:NH1	2.27	0.55
26:1H:2880:C:O2'	39:98:90:ARG:NH1	2.37	0.55
29:11:182:LEU:N	29:11:272:ALA:HB3	2.20	0.55
30:21:31:CYS:HB2	30:21:91:VAL:HG22	1.88	0.55
30:21:173:VAL:N	30:21:183:LEU:O	2.35	0.55
1:1G:110:C:H3'	1:1G:111:G:C8	2.42	0.55
1:1G:272:C:H2'	1:1G:273:A:C8	2.41	0.55
1:1G:630:G:H3'	1:1G:631:G:H5'	1.87	0.55
1:1G:1252:A:H61	1:1G:1285:A:H61	1.53	0.55
4:32:13:ARG:HB3	4:32:38:TYR:O	2.07	0.55
26:14:957:A:OP1	38:45:76:LYS:HD2	2.06	0.55
26:14:1815:A:OP2	29:19:54:ARG:NH2	2.30	0.55
26:14:2495:G:H2'	26:14:2496:C:C6	2.42	0.55
32:49:81:LYS:HD2	32:49:86:MET:HE1	1.87	0.55
34:69:47:LEU:HD23	34:69:48:GLU:N	2.21	0.55
36:25:63:VAL:HB	36:25:102:VAL:HG12	1.89	0.55
37:35:37:GLY:HA2	37:35:41:ARG:HH21	1.72	0.55
45:B5:29:TRP:CZ3	45:B5:78:LYS:HB2	2.42	0.55
45:B5:29:TRP:CZ3	45:B5:78:LYS:HE2	2.42	0.55
1:13:11:G:C6	1:13:12:U:C4	2.94	0.55
1:13:264:U:O2	17:8I:64:PRO:HG2	2.07	0.55
1:13:1007:C:O2	1:13:1022:G:N2	2.32	0.55
1:13:1071:C:H2'	1:13:1072:G:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1128:C:H2'	1:13:1139:G:C6	2.42	0.55
16:7I:5:ARG:NH2	16:7I:23:ASP:O	2.40	0.55
20:BI:16:HIS:O	20:BI:19:SER:N	2.40	0.55
26:1H:94:G:H2'	26:1H:95:G:O4'	2.06	0.55
26:1H:280:C:C2	26:1H:361:G:N2	2.74	0.55
26:1H:2032:G:N2	30:21:146:THR:HG23	2.18	0.55
26:1H:2199:A:C4	26:1H:2205:C:C6	2.95	0.55
26:1H:2418:A:H2'	26:1H:2419:U:O4'	2.06	0.55
26:1H:2875:C:H2'	26:1H:2876:G:O4'	2.07	0.55
37:78:6:LEU:O	37:78:7:ARG:HG2	2.06	0.55
44:E8:29:LEU:HD12	44:E8:29:LEU:O	2.06	0.55
47:H8:9:TYR:CE1	47:H8:35:ARG:HD2	2.40	0.55
51:L8:4:LEU:HD11	51:L8:39:ASP:OD2	2.06	0.55
1:1G:960:U:H4'	1:1G:961:U:H5''	1.89	0.55
1:1G:1188:A:H4'	14:5A:58:LYS:HD3	1.89	0.55
1:1G:1290:G:O3'	7:62:37:ASN:ND2	2.39	0.55
4:32:119:GLN:O	4:32:123:HIS:ND1	2.35	0.55
8:72:86:ILE:HG21	8:72:133:LEU:HD22	1.89	0.55
8:72:123:GLU:H	8:72:123:GLU:CD	2.11	0.55
19:AA:14:HIS:NE2	19:AA:15:LEU:HG	2.22	0.55
23:2L:54:G:H2'	23:2L:55:5MU:C6	2.42	0.55
26:14:987:G:O2'	26:14:1000:A:N3	2.37	0.55
26:14:1567:A:H2'	29:19:86:PRO:HB3	1.89	0.55
26:14:2748:A:H2'	26:14:2749:A:C8	2.42	0.55
32:49:73:ALA:HB3	32:49:84:LYS:HA	1.89	0.55
37:35:95:VAL:HA	37:35:99:LEU:HD23	1.87	0.55
47:D5:5:LEU:HD13	47:D5:6:LYS:H	1.72	0.55
1:13:859:A:OP2	1:13:869:G:N2	2.37	0.55
1:13:1004:A:H5'	1:13:1024:G:N7	2.22	0.55
1:13:1048:G:OP1	14:5I:4:LYS:HB2	2.07	0.55
8:7E:6:ILE:HB	8:7E:85:ARG:NH1	2.20	0.55
17:8I:76:LEU:HD11	17:8I:79:SER:CB	2.29	0.55
26:1H:1657:C:H2'	26:1H:1658:C:H6	1.71	0.55
26:1H:2114:A:H5''	26:1H:2117:A:H5'	1.87	0.55
28:71:46:LYS:O	28:71:47:LEU:HD23	2.07	0.55
29:11:29:PRO:C	29:11:30:GLU:HG2	2.31	0.55
29:11:68:LYS:HD3	29:11:70:TRP:CZ2	2.41	0.55
30:21:111:ARG:HA	39:98:1:MET:HE3	1.88	0.55
31:31:9:ILE:HG12	31:31:20:LEU:O	2.07	0.55
32:41:67:LYS:O	32:41:67:LYS:HG2	2.07	0.55
44:E8:76:VAL:HG21	44:E8:101:SER:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:15:G:H2'	1:1G:16:A:O4'	2.06	0.55
1:1G:659:U:H2'	1:1G:660:G:O4'	2.07	0.55
1:1G:1534:A:H3'	1:1G:1534:A:N3	2.22	0.55
3:22:45:LYS:HG3	3:22:46:GLU:HG3	1.88	0.55
5:42:91:LEU:HD22	5:42:120:THR:HG22	1.87	0.55
9:82:85:LEU:HD11	9:82:96:LEU:HD11	1.89	0.55
56:1L:25:C:C2	56:1L:26:A:H1'	2.41	0.55
23:2L:53:G:N2	23:2L:63:C:O2	2.36	0.55
26:14:125:G:C5'	54:L5:19:ARG:HD3	2.37	0.55
26:14:779:U:OP1	29:19:49:ILE:HG23	2.06	0.55
26:14:1203:G:OP2	26:14:1204:A:H2'	2.07	0.55
26:14:1576:U:H2'	26:14:1577:C:H6	1.71	0.55
26:14:2840:C:O2'	39:55:91:GLN:OE1	2.23	0.55
27:1J:7:G:O2'	40:65:38:GLN:NE2	2.40	0.55
29:19:85:ASP:HB2	29:19:92:ILE:HG12	1.88	0.55
31:39:165:ARG:HB3	31:39:165:ARG:HH11	1.71	0.55
32:49:154:GLY:HA2	32:49:155:MET:HE2	1.88	0.55
33:59:54:ARG:HD2	33:59:56:SER:O	2.06	0.55
37:35:71:VAL:CG1	37:35:72:PRO:HD3	2.33	0.55
38:45:57:HIS:CG	38:45:117:ALA:HB2	2.42	0.55
54:L5:5:TRP:NE1	54:L5:7:PRO:HG3	2.22	0.55
1:13:64:G:O2'	1:13:65:U:OP1	2.21	0.55
1:13:255:G:C5	1:13:256:U:C4	2.94	0.55
1:13:497:U:O2	1:13:497:U:H2'	2.05	0.55
2:1E:237:ALA:O	2:1E:239:VAL:HG23	2.07	0.55
3:2E:91:LEU:HB2	3:2E:99:VAL:HG21	1.89	0.55
26:1H:270(V):G:H2'	26:1H:270(W):G:H8	1.72	0.55
26:1H:708:C:OP2	26:1H:708:C:H6	1.90	0.55
26:1H:1329:U:H5''	26:1H:1330:C:C5	2.41	0.55
26:1H:1434:A:H2'	26:1H:1435:G:C8	2.42	0.55
26:1H:1899:G:H21	26:1H:1902:C:H5	1.55	0.55
28:71:62:VAL:HG12	28:71:163:PHE:HE1	1.71	0.55
36:68:13:ASN:ND2	36:68:97:ARG:HB2	2.22	0.55
1:1G:1055:A:N3	3:22:156:ARG:HD2	2.22	0.55
1:1G:1363:A:H4'	1:1G:1364:U:H5''	1.88	0.55
20:BA:23:ARG:NH2	20:BA:27:LYS:HD2	2.21	0.55
26:14:7:G:H5'	35:15:131:GLN:HE22	1.72	0.55
26:14:1100:C:H2'	26:14:1101:U:H5	1.71	0.55
26:14:1309:G:O2'	26:14:1611:C:O2'	2.22	0.55
26:14:1743:G:C2	26:14:1746:G:C8	2.95	0.55
26:14:2414:G:N2	37:35:67:MET:HE1	2.10	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2475:C:H5''	26:14:2476:A:H5''	1.88	0.55
32:49:135:LEU:O	32:49:136:ARG:HD2	2.07	0.55
34:69:82:ARG:O	34:69:89:TYR:HD2	1.90	0.55
1:13:272:C:H2'	1:13:273:A:H8	1.71	0.55
1:13:693:G:H2'	1:13:694:A:C8	2.42	0.55
1:13:1151:A:H5'	10:11:41:PRO:HA	1.89	0.55
5:4E:33:VAL:HG11	5:4E:109:ILE:HA	1.89	0.55
5:4E:53:LEU:O	5:4E:56:GLN:HB2	2.07	0.55
7:6E:143:ARG:HG2	24:3K:41:A:H5''	1.88	0.55
25:4K:23:A:H2'	25:4K:24:A:C4'	2.37	0.55
26:1H:827:U:H5'	26:1H:828:U:O5'	2.07	0.55
26:1H:835:A:OP1	55:Q8:53:PRO:HG3	2.07	0.55
26:1H:860:U:C5	26:1H:917:A:C2	2.95	0.55
26:1H:1141:U:H6	35:58:63:THR:OG1	1.90	0.55
26:1H:1408:C:C2	26:1H:1595:G:N2	2.74	0.55
27:16:71:C:C2	27:16:72:G:C8	2.95	0.55
33:51:4:ILE:HG13	33:51:6:ARG:HD3	1.88	0.55
40:A8:18:ILE:HD13	40:A8:88:ASP:HA	1.89	0.55
47:H8:93:ASP:C	47:H8:94:GLU:HG3	2.30	0.55
50:K8:33:MET:HG3	50:K8:36:ARG:NH2	2.22	0.55
1:1G:405:U:O4	4:32:2:GLY:N	2.40	0.55
1:1G:1469:G:H2'	1:1G:1470:G:C8	2.42	0.55
5:42:153:LYS:HE3	8:72:43:GLY:HA3	1.89	0.55
9:82:32:ASP:OD1	9:82:33:PHE:N	2.39	0.55
13:4A:91:ARG:HB3	13:4A:96:LEU:H	1.72	0.55
26:14:55:G:H2'	26:14:56:A:H8	1.72	0.55
26:14:90:U:HO2'	26:14:91:A:P	2.30	0.55
26:14:631:A:H2'	26:14:632:A:O4'	2.06	0.55
26:14:871:U:OP1	38:45:5:ARG:HG2	2.07	0.55
26:14:1091:G:N2	26:14:1100:C:O2'	2.39	0.55
26:14:1789:A:H2'	26:14:1790:C:O4'	2.07	0.55
27:1J:109:G:C6	27:1J:110:G:C5	2.95	0.55
34:69:72:LEU:HD21	34:69:107:VAL:HG21	1.89	0.55
42:85:112:ARG:NH1	43:95:47:VAL:HG13	2.22	0.55
45:B5:75:ASP:C	45:B5:76:ARG:HG3	2.31	0.55
48:E5:21:LEU:HD11	48:E5:41:ARG:NH1	2.21	0.55
53:J5:45:VAL:HG22	53:J5:51:TYR:HD2	1.72	0.55
1:13:177:C:P	20:BI:65:LYS:HZ3	2.25	0.54
1:13:1263:C:H2'	1:13:1264:C:H6	1.71	0.54
5:4E:6:PHE:HD2	5:4E:63:ARG:HH11	1.54	0.54
5:4E:72:GLN:O	5:4E:75:THR:HG22	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:8E:114:TYR:CE1	10:1I:59:SER:HA	2.42	0.54
26:1H:972:G:H3'	26:1H:973:A:H2'	1.89	0.54
26:1H:1956:U:C2'	26:1H:1957:C:H5'	2.37	0.54
26:1H:2074:U:H2'	26:1H:2075:U:C6	2.43	0.54
32:4I:139:LEU:HA	32:4I:144:ILE:HB	1.90	0.54
37:78:64:LYS:HZ2	37:78:68:GLN:HG3	1.73	0.54
1:1G:453:A:H4'	16:7A:72:ARG:HB2	1.88	0.54
2:12:22:LYS:HB3	2:12:24:TRP:NE1	2.22	0.54
4:32:4:TYR:CE2	4:32:11:LEU:HD11	2.42	0.54
5:42:74:GLY:HA3	5:42:116:THR:OG1	2.06	0.54
26:14:1858:G:H2'	26:14:1883:G:H22	1.72	0.54
27:1J:19:G:N2	27:1J:64:C:O2	2.41	0.54
27:1J:22:U:H5'	27:1J:23:G:OP2	2.07	0.54
29:19:71:ASP:N	29:19:71:ASP:OD1	2.39	0.54
54:L5:34:ARG:NH1	54:L5:39:ARG:HG3	2.22	0.54
1:13:431:A:H2'	1:13:432:A:O4'	2.07	0.54
1:13:486:U:H2'	1:13:487:A:H8	1.71	0.54
1:13:1057:G:H4'	3:2E:197:GLY:H	1.71	0.54
1:13:1366:C:H2'	1:13:1367:C:H6	1.72	0.54
4:3E:110:PHE:HE2	4:3E:148:VAL:HG23	1.72	0.54
24:3K:5:C:H2'	24:3K:6:G:O4'	2.05	0.54
26:1H:7:G:N2	26:1H:2896:C:N3	2.54	0.54
26:1H:468:G:H5''	26:1H:469:G:OP2	2.08	0.54
26:1H:581:C:H2'	26:1H:582:G:C8	2.42	0.54
26:1H:928:G:H2'	26:1H:929:G:O4'	2.05	0.54
26:1H:1997:G:C5'	30:21:117:MET:CE	2.86	0.54
29:11:85:ASP:HB2	29:11:92:ILE:HG12	1.89	0.54
43:D8:37:VAL:HG12	43:D8:55:ALA:O	2.07	0.54
1:1G:1220:G:H2'	1:1G:1221:G:C8	2.42	0.54
1:1G:1368:G:P	9:82:114:TYR:HB3	2.47	0.54
2:12:187:LEU:HA	2:12:201:ILE:O	2.07	0.54
10:1A:63:PHE:HD1	14:5A:57:ARG:O	1.89	0.54
11:2A:98:LEU:O	11:2A:101:SER:OG	2.20	0.54
13:4A:37:THR:HG22	13:4A:55:ARG:NH1	2.23	0.54
19:AA:14:HIS:CE1	19:AA:15:LEU:HG	2.42	0.54
57:3L:30:G:N2	57:3L:41:A:C8	2.76	0.54
26:14:2275:C:C6	26:14:2275:C:H5'	2.42	0.54
26:14:2378:A:O2'	40:65:23:ARG:HD2	2.07	0.54
34:69:79:ILE:O	34:69:143:SER:HA	2.06	0.54
47:D5:5:LEU:HD23	47:D5:47:VAL:HG21	1.89	0.54
1:13:329:A:C5	1:13:332:G:C6	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:484:G:O2'	1:13:485:G:OP2	2.17	0.54
1:13:963:G:C2	10:1I:55:LYS:NZ	2.74	0.54
1:13:1291:G:OP1	7:6E:37:ASN:OD1	2.25	0.54
2:1E:5:ILE:CD1	2:1E:6:THR:H	2.20	0.54
4:3E:103:ASN:O	4:3E:107:ARG:HG2	2.07	0.54
4:3E:122:ARG:NH1	4:3E:134:ASP:HB3	2.21	0.54
26:1H:1165:U:H5''	26:1H:1166:C:OP2	2.08	0.54
26:1H:1167:U:C2	26:1H:1183:G:N2	2.76	0.54
26:1H:1260:G:H2'	26:1H:1261:C:C6	2.43	0.54
26:1H:1394:U:H4'	26:1H:1603:A:H4'	1.88	0.54
26:1H:2032:G:H21	30:21:146:THR:CG2	2.17	0.54
26:1H:2629:A:O2'	26:1H:2630:G:H5''	2.07	0.54
29:11:10:THR:HG1	29:11:13:ARG:HB2	1.73	0.54
30:21:31:CYS:SG	30:21:51:PHE:HB2	2.46	0.54
31:31:136:THR:HG22	31:31:166:ALA:O	2.07	0.54
34:61:41:GLU:HG2	34:61:42:SER:N	2.23	0.54
39:98:100:LEU:HD11	39:98:113:LEU:HD13	1.89	0.54
40:A8:93:LYS:HG2	40:A8:95:HIS:HB2	1.88	0.54
40:A8:108:GLY:O	40:A8:110:LEU:HG	2.07	0.54
41:B8:62:THR:HA	41:B8:74:ARG:O	2.07	0.54
42:C8:104:GLN:HE22	43:D8:44:LYS:HB2	1.73	0.54
1:1G:191(F):U:H2'	1:1G:191:G:C8	2.42	0.54
1:1G:570:G:H2'	1:1G:571:U:C6	2.43	0.54
1:1G:1057:G:C6	1:1G:1204:A:C2	2.95	0.54
1:1G:1286:A:H5'	21:1B:25:LYS:HD3	1.90	0.54
1:1G:1291:G:H5''	9:82:39:GLY:O	2.06	0.54
1:1G:1453:G:HO2'	1:1G:1454:G:P	2.30	0.54
2:12:28:PHE:CZ	2:12:189:ASP:HA	2.42	0.54
2:12:130:ARG:O	2:12:135:GLN:NE2	2.40	0.54
5:42:90:VAL:CG2	5:42:121:LYS:HB3	2.37	0.54
9:82:22:GLY:N	9:82:58:HIS:O	2.23	0.54
56:1L:69:A:H1'	56:1L:70:C:O5'	2.08	0.54
26:14:30:G:H2'	26:14:31:C:C6	2.43	0.54
26:14:1053:C:H2'	26:14:1054:A:H1'	1.88	0.54
26:14:1752:C:P	41:75:115:ARG:HH22	2.30	0.54
26:14:2118:U:H1'	26:14:2147:G:H21	1.73	0.54
26:14:2525:G:N2	26:14:2539:C:C2	2.75	0.54
26:14:2734:A:H2'	26:14:2735:G:O4'	2.07	0.54
30:29:37:ARG:HD2	30:29:44:TYR:HE2	1.72	0.54
32:49:151:ALA:HB3	32:49:153:ARG:HH12	1.73	0.54
37:35:97:PRO:HD3	37:35:126:VAL:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:95:27:ALA:HB1	43:95:61:VAL:HG21	1.90	0.54
44:A5:15:ARG:O	44:A5:19:LEU:HD22	2.08	0.54
48:E5:12:ASN:O	48:E5:12:ASN:ND2	2.39	0.54
1:13:265:G:O2'	17:8I:67:LYS:N	2.40	0.54
1:13:923:A:OP1	5:4E:21:ALA:HB2	2.08	0.54
1:13:1286:A:N6	1:13:1355:G:OP1	2.41	0.54
1:13:1296:C:H5'	13:4I:14:ARG:NH1	2.23	0.54
9:8E:27:THR:N	9:8E:61:ALA:O	2.24	0.54
11:2I:79:SER:OG	11:2I:106:LYS:NZ	2.25	0.54
12:3I:53:ARG:HG3	12:3I:53:ARG:NH1	2.21	0.54
18:9I:66:LEU:CG	18:9I:70:ILE:HD11	2.38	0.54
19:AI:51:VAL:HG12	19:AI:52:TYR:H	1.72	0.54
26:1H:287:C:H2'	26:1H:288:C:C6	2.36	0.54
26:1H:2636:U:OP1	30:21:80:GLU:HG3	2.06	0.54
35:58:129:PRO:O	35:58:134:ARG:NH1	2.40	0.54
48:I8:37:LEU:HD12	48:I8:60:PHE:HA	1.90	0.54
1:1G:67:C:H2'	1:1G:68:G:C8	2.43	0.54
1:1G:164:U:H2'	1:1G:165:C:C6	2.42	0.54
1:1G:518:C:H5''	1:1G:519:C:C6	2.41	0.54
1:1G:1118:C:H1'	1:1G:1179:A:C4	2.42	0.54
1:1G:1264:C:O2	1:1G:1272:G:N1	2.40	0.54
4:32:141:ARG:N	4:32:144:ASP:OD2	2.39	0.54
5:42:80:ILE:HA	8:72:104:ARG:NH1	2.22	0.54
13:4A:84:ILE:HD11	19:AA:65:ASN:OD1	2.08	0.54
23:2L:60:A:H2'	23:2L:61:U:H5'	1.89	0.54
26:14:642:G:H3'	26:14:642:G:C8	2.42	0.54
26:14:1366:A:H2'	26:14:1367:A:O4'	2.06	0.54
26:14:1386:C:H2'	26:14:1387:C:H6	1.71	0.54
26:14:1449(A):G:H2'	26:14:1450:C:C6	2.43	0.54
26:14:2645:G:H3'	26:14:2646:C:H5'	1.89	0.54
27:1J:14:U:H5'	27:1J:71:C:H1'	1.89	0.54
29:19:130:ALA:HA	29:19:192:THR:HA	1.90	0.54
32:49:105:LYS:HZ1	32:49:106:LEU:CD2	2.21	0.54
37:35:113:LYS:HD3	37:35:115:LEU:HD21	1.89	0.54
1:13:128:G:H4'	17:8I:3:LYS:HD3	1.89	0.54
1:13:269:C:H2'	1:13:270:A:H8	1.73	0.54
1:13:328:C:H4'	1:13:329:A:C5'	2.36	0.54
1:13:363:A:OP1	12:3I:33:ARG:HG3	2.07	0.54
1:13:517:G:H8	1:13:517:G:OP2	1.91	0.54
1:13:1122:U:C4	1:13:1123:A:N6	2.76	0.54
1:13:1200:C:H4'	1:13:1201:A:H5''	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1446:A:OP1	1:13:1446:A:H4'	2.08	0.54
2:1E:51:LEU:HG	2:1E:201:ILE:HD12	1.90	0.54
16:7I:51:VAL:HG12	16:7I:52:ASP:C	2.33	0.54
20:BI:83:ARG:O	20:BI:87:LYS:HD3	2.07	0.54
26:1H:805:G:OP2	37:78:41:ARG:HG2	2.07	0.54
26:1H:1024:G:HO2'	26:1H:1144:G:HO2'	1.55	0.54
26:1H:1161:C:O2'	43:D8:8:GLY:HA2	2.08	0.54
26:1H:2400:G:H2'	26:1H:2401:U:C6	2.42	0.54
26:1H:2756:U:H4'	26:1H:2757:A:OP1	2.06	0.54
27:16:18:G:H1	27:16:65:C:H42	1.52	0.54
33:51:157:TYR:O	33:51:158:HIS:ND1	2.41	0.54
34:61:110:ASP:N	34:61:130:TYR:OH	2.39	0.54
38:88:5:ARG:HH21	38:88:6:ARG:NE	2.05	0.54
39:98:10:LEU:O	39:98:12:ARG:HB2	2.08	0.54
39:98:63:ARG:HH22	39:98:77:ARG:HG2	1.72	0.54
43:D8:1:MET:SD	43:D8:43:GLU:CD	2.91	0.54
46:G8:85:VAL:N	46:G8:96:ILE:O	2.40	0.54
1:1G:23:C:OP2	1:1G:561:U:N3	2.28	0.54
1:1G:456:C:H42	1:1G:476:G:H1	1.56	0.54
1:1G:858:G:H8	1:1G:858:G:OP2	1.90	0.54
1:1G:865:A:H5'	1:1G:1078:U:C5	2.42	0.54
1:1G:952:U:H4'	1:1G:964:A:N1	2.22	0.54
1:1G:1050:G:N2	1:1G:1209:C:H1'	2.21	0.54
1:1G:1381:U:H2'	1:1G:1382:C:H5'	1.89	0.54
13:4A:80:ARG:HH22	19:AA:66:MET:CE	2.20	0.54
56:1L:26:A:H2'	56:1L:27:G:H5'	1.89	0.54
26:14:243:U:OP1	55:M5:6:THR:OG1	2.19	0.54
26:14:764:A:H2	29:19:219:PRO:HG3	1.72	0.54
26:14:813:U:C2	26:14:1195:G:N2	2.76	0.54
26:14:2143:C:N4	26:14:2144:U:O2	2.40	0.54
26:14:2290:G:C2	26:14:2343:C:O2	2.61	0.54
26:14:2498:C:OP2	61:14:3521:HOH:O	2.19	0.54
26:14:2820:A:O5'	39:55:4:LEU:HD23	2.06	0.54
27:1J:63:G:H2'	27:1J:63:G:N3	2.22	0.54
46:C5:29:GLU:OE2	46:C5:38:ILE:HD12	2.08	0.54
47:D5:44:PHE:O	47:D5:44:PHE:HD1	1.90	0.54
1:13:292:G:C5	1:13:293:G:H1'	2.42	0.54
1:13:1358:U:P	14:5I:35:ARG:HG3	2.48	0.54
26:1H:651:G:OP2	55:Q8:21:LYS:NZ	2.39	0.54
26:1H:753:C:H2'	26:1H:754:C:C6	2.42	0.54
26:1H:1346:G:C4	26:1H:1347:G:C8	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1580:A:H8	26:1H:1580:A:OP2	1.90	0.54
26:1H:2579:C:H2'	26:1H:2580:U:O4'	2.07	0.54
27:16:73:A:H3'	27:16:74:U:H6	1.72	0.54
32:41:4:ASP:OD1	32:41:5:VAL:N	2.41	0.54
40:A8:69:VAL:HG13	40:A8:101:LEU:HD13	1.89	0.54
41:B8:42:ILE:HD12	41:B8:42:ILE:O	2.07	0.54
43:D8:17:GLY:N	43:D8:96:ILE:O	2.32	0.54
45:F8:68:ARG:HH11	45:F8:69:TYR:HE1	1.56	0.54
52:M8:40:HIS:CE1	52:M8:45:GLY:HA3	2.42	0.54
1:1G:1372:U:H2'	1:1G:1373:G:O4'	2.08	0.54
1:1G:1392:G:H21	1:1G:1502:A:H8	1.54	0.54
4:32:173:TRP:CZ3	4:32:193:ASP:HB2	2.43	0.54
7:62:58:PRO:HA	7:62:61:VAL:HG12	1.90	0.54
9:82:97:LYS:C	9:82:100:GLY:H	2.16	0.54
13:4A:61:GLU:HA	13:4A:66:LEU:HD11	1.90	0.54
18:9A:51:LEU:HD22	18:9A:55:ARG:NH2	2.21	0.54
26:14:1364:G:N7	49:F5:2:SER:HB2	2.23	0.54
26:14:1590:U:H2'	26:14:1591:G:H8	1.72	0.54
26:14:2494:G:H2'	26:14:2495:G:H8	1.73	0.54
27:1J:78:A:C2	27:1J:99:A:C4	2.96	0.54
36:25:63:VAL:HG23	36:25:64:ARG:HG3	1.88	0.54
37:35:49:ARG:HD2	55:M5:60:LEU:HD13	1.90	0.54
42:85:98:LEU:HB2	42:85:102:GLU:HB2	1.89	0.54
1:13:718:G:C8	11:2I:116:HIS:HB3	2.42	0.54
1:13:734:G:C2	1:13:735:C:C2	2.96	0.54
1:13:859:A:H2'	1:13:860:A:C8	2.42	0.54
4:3E:155:LEU:HB3	4:3E:158:ILE:HG13	1.90	0.54
18:9I:31:LEU:HD23	18:9I:31:LEU:H	1.71	0.54
23:2K:20:G:C4	23:2K:58:A:C2	2.95	0.54
26:1H:71:A:H2	45:F8:31:HIS:NE2	2.06	0.54
26:1H:534:U:H2'	26:1H:535:C:C6	2.43	0.54
26:1H:580:C:H2'	26:1H:581:C:C6	2.42	0.54
26:1H:675:A:OP1	31:31:63:LYS:HE2	2.08	0.54
26:1H:918:A:H8	26:1H:918:A:O5'	1.91	0.54
26:1H:1019:U:OP1	26:1H:1035:U:O2'	2.23	0.54
26:1H:1709:U:H1'	26:1H:2860:A:N3	2.22	0.54
29:11:40:THR:HG23	29:11:41:GLY:N	2.21	0.54
29:11:109:ASP:N	29:11:196:VAL:O	2.40	0.54
31:31:179:GLU:CD	31:31:179:GLU:N	2.66	0.54
36:68:68:GLU:CD	36:68:68:GLU:H	2.16	0.54
42:C8:84:LYS:HD3	42:C8:85:LYS:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:H8:53:ILE:HG22	47:H8:71:VAL:HG13	1.90	0.54
1:1G:111:G:H8	1:1G:111:G:O5'	1.90	0.54
1:1G:273:A:N6	1:1G:274:A:N6	2.55	0.54
1:1G:458:C:N4	1:1G:464:G:O6	2.41	0.54
5:42:8:GLU:HA	5:42:34:VAL:HA	1.90	0.54
57:3L:28:U:H3	57:3L:42:A:N6	2.06	0.54
26:14:834:C:OP2	61:14:3537:HOH:O	2.18	0.54
26:14:991:C:O2	26:14:1164:G:C2	2.60	0.54
26:14:1970:A:OP1	26:14:1970:A:H4'	2.08	0.54
41:75:42:ILE:O	41:75:42:ILE:HG13	2.07	0.54
43:95:44:LYS:O	43:95:46:VAL:HG12	2.07	0.54
1:13:38:G:C2	1:13:397:A:C2	2.95	0.54
1:13:266:G:C2	1:13:269:C:H5	2.25	0.54
1:13:346:G:H1'	41:B8:41:ARG:NH2	2.23	0.54
1:13:1079:G:C6	1:13:1080:A:N6	2.76	0.54
1:13:1133:G:H2'	1:13:1134:G:C8	2.43	0.54
1:13:1152:A:H2'	1:13:1153:C:H6	1.73	0.54
1:13:1368:G:OP2	9:8E:112:LYS:HD2	2.07	0.54
2:1E:17:PHE:HB3	2:1E:44:LEU:HD11	1.89	0.54
5:4E:64:ARG:N	5:4E:64:ARG:HD2	2.23	0.54
12:3I:53:ARG:HB3	12:3I:69:TYR:HE1	1.72	0.54
12:3I:70:ILE:HD13	12:3I:77:LEU:HD12	1.89	0.54
26:1H:863:A:H2	26:1H:914:C:N4	2.06	0.54
26:1H:930:U:H4'	26:1H:931:G:O5'	2.07	0.54
26:1H:1800:C:OP1	29:11:266:SER:OG	2.15	0.54
26:1H:2126:A:O2'	26:1H:2162:G:N2	2.41	0.54
26:1H:2169:A:OP1	26:1H:2171:A:N6	2.41	0.54
26:1H:2176:A:HO2'	28:71:44:HIS:CE1	2.22	0.54
26:1H:2335:A:C8	26:1H:2337:G:C5	2.96	0.54
26:1H:2356:C:C5	26:1H:2357:U:C4	2.95	0.54
26:1H:2403:C:H2'	26:1H:2404:C:H6	1.72	0.54
26:1H:2469:A:H2	26:1H:2481:G:N2	1.96	0.54
26:1H:2674:G:H4'	36:68:30:ALA:HB2	1.90	0.54
30:21:38:THR:OG1	30:21:40:GLU:OE1	2.18	0.54
47:H8:124:ILE:HD12	47:H8:125:LEU:H	1.71	0.54
49:J8:53:VAL:HB	49:J8:58:ILE:HD13	1.88	0.54
1:1G:1521:G:H2'	1:1G:1522:U:H6	1.73	0.54
5:42:84:PHE:HD2	5:42:130:ASN:HB3	1.72	0.54
6:52:99:ALA:H	18:9A:31:LEU:HD22	1.73	0.54
7:62:146:GLU:CD	7:62:147:ALA:H	2.15	0.54
8:72:110:ALA:O	8:72:121:ASP:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1048:A:N6	26:14:1112:G:O2'	2.41	0.54
26:14:1567:A:O2'	29:19:63:ARG:NH2	2.41	0.54
26:14:2262:U:O2'	26:14:2263:C:H5'	2.08	0.54
26:14:2357:U:OP1	48:E5:20:ARG:NH1	2.37	0.54
26:14:2447:G:H3'	61:14:3557:HOH:O	2.08	0.54
27:1J:44:G:O2'	27:1J:48:A:N6	2.41	0.54
32:49:111:LEU:HD13	32:49:117:PHE:HE1	1.73	0.54
37:35:80:TYR:HA	37:35:111:ARG:O	2.08	0.54
45:B5:32:PRO:HA	45:B5:77:LYS:HB2	1.89	0.54
1:13:488:C:H2'	1:13:489:C:C6	2.42	0.54
1:13:1305:G:H21	1:13:1331:G:H2'	1.72	0.54
1:13:1316:G:H22	1:13:1319:A:H5'	1.73	0.54
4:3E:108:LEU:HD23	4:3E:110:PHE:CE1	2.43	0.54
4:3E:108:LEU:HB3	4:3E:110:PHE:CD1	2.43	0.54
16:7I:28:ARG:HG3	16:7I:29:ASP:N	2.22	0.54
17:8I:11:VAL:HG23	17:8I:20:THR:HB	1.90	0.54
17:8I:59:ILE:HB	17:8I:71:PHE:HD2	1.72	0.54
20:BI:73:HIS:HB3	20:BI:74:LYS:HG2	1.89	0.54
25:4K:12:A:C8	25:4K:14:A:OP1	2.61	0.54
26:1H:176:G:C2'	26:1H:177:G:H5'	2.38	0.54
26:1H:732:C:OP2	61:1H:3552:HOH:O	2.18	0.54
26:1H:2019:A:C6	26:1H:2020:A:N7	2.76	0.54
26:1H:2290:G:C6	26:1H:2291:U:N3	2.76	0.54
30:21:37:ARG:HD3	30:21:42:ASP:OD2	2.08	0.54
38:88:5:ARG:HH21	38:88:6:ARG:HE	1.55	0.54
42:C8:50:ARG:HH12	43:D8:72:VAL:HG23	1.72	0.54
1:1G:736:C:H2'	1:1G:737:A:H8	1.71	0.54
1:1G:1151:A:H5'	10:1A:41:PRO:HA	1.90	0.54
5:42:146:ALA:HA	5:42:149:GLU:HB2	1.89	0.54
11:2A:67:ASP:OD2	11:2A:71:LYS:NZ	2.38	0.54
13:4A:39:ILE:HG22	13:4A:40:ASN:H	1.73	0.54
23:2L:35:C:H2'	23:2L:36:A:C8	2.42	0.54
26:14:139:G:H8	26:14:139:G:H5''	1.73	0.54
26:14:731:C:OP1	61:14:3538:HOH:O	2.19	0.54
26:14:1857:G:C6	26:14:1858:G:C6	2.95	0.54
27:1J:84:C:OP1	51:H5:15:TYR:OH	2.21	0.54
31:39:89:VAL:O	31:39:90:PHE:C	2.49	0.54
34:69:113:ARG:O	34:69:131:LYS:HD3	2.08	0.54
53:J5:16:ARG:HG3	53:J5:17:ASP:N	2.22	0.54
1:13:11:G:C5	1:13:12:U:C5	2.96	0.54
1:13:578:C:OP1	61:13:1812:HOH:O	2.18	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:599:C:O2'	8:7E:129:VAL:O	2.16	0.54
1:13:667:G:H4'	15:6I:51:HIS:CE1	2.43	0.54
1:13:1041:A:H2'	1:13:1042:G:O4'	2.07	0.54
1:13:1285:A:H4'	1:13:1286:A:H5'	1.91	0.54
2:1E:84:GLU:HB3	2:1E:219:VAL:HG21	1.89	0.54
2:1E:184:VAL:C	2:1E:185:ILE:HD13	2.33	0.54
10:1I:8:LEU:O	10:1I:69:ASN:HA	2.08	0.54
23:2K:32:G:H2'	23:2K:33:OMC:C6	2.43	0.54
26:1H:50:U:H3'	26:1H:51:G:C5'	2.38	0.54
26:1H:548:A:H2'	26:1H:549:G:H5'	1.90	0.54
26:1H:556:G:H2'	26:1H:557:U:H6	1.73	0.54
26:1H:1496:A:H8	26:1H:1577:C:O2'	1.91	0.54
26:1H:1953:A:N1	26:1H:2549:G:O2'	2.41	0.54
26:1H:2209:C:O2	26:1H:2216:G:C2	2.61	0.54
26:1H:2749:A:OP2	33:51:4:ILE:HD11	2.06	0.54
32:41:47:LYS:NZ	32:41:80:PHE:HD1	2.05	0.54
36:68:71:ARG:NH2	36:68:77:ILE:HG21	2.23	0.54
38:88:141:GLN:NE2	38:88:141:GLN:O	2.39	0.54
40:A8:85:VAL:CG2	40:A8:112:PHE:CZ	2.74	0.54
42:C8:81:HIS:CE1	42:C8:85:LYS:HE2	2.43	0.54
1:1G:19:C:OP1	5:42:125:SER:OG	2.25	0.54
1:1G:45:U:H2'	1:1G:46:G:C8	2.43	0.54
1:1G:222:U:C2	1:1G:223:U:C5	2.96	0.54
4:32:107:ARG:NH2	4:32:196:LEU:HD11	2.23	0.54
11:2A:17:GLY:N	11:2A:77:MET:SD	2.81	0.54
11:2A:19:ALA:HB3	11:2A:82:VAL:HG22	1.90	0.54
26:14:590:A:H2'	26:14:591:C:C6	2.42	0.54
26:14:2075:U:OP1	29:19:244:ARG:CZ	2.54	0.54
26:14:2113:U:C5	26:14:2114:A:H1'	2.43	0.54
27:1J:52:A:N6	40:65:33:LYS:HG3	2.23	0.54
29:19:12:SER:O	29:19:16:MET:HE3	2.08	0.54
30:29:11:MET:HE3	30:29:186:GLY:HA2	1.89	0.54
38:45:134:ARG:O	38:45:136:ALA:HA	2.07	0.54
42:85:95:LEU:O	42:85:98:LEU:HG	2.08	0.54
47:D5:51:ALA:HB1	47:D5:57:ILE:HG12	1.90	0.54
55:M5:22:VAL:O	55:M5:50:LEU:HB2	2.06	0.54
1:13:401:C:OP2	4:3E:73:ARG:HD3	2.08	0.53
1:13:552:U:H4'	12:3I:86:ARG:HG3	1.89	0.53
1:13:757:U:OP2	1:13:757:U:H6	1.91	0.53
1:13:1288:A:N1	1:13:1371:G:H1'	2.23	0.53
6:5E:44:GLY:HA2	6:5E:59:TYR:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:7E:68:ARG:HD2	8:7E:74:PRO:HB2	1.89	0.53
26:1H:459:U:H5''	54:P8:40:TRP:CD2	2.43	0.53
26:1H:516:C:OP1	53:N8:13:LYS:NZ	2.32	0.53
26:1H:1026:U:H1'	26:1H:1027:A:O5'	2.08	0.53
26:1H:1556:C:H2'	26:1H:1557:C:H6	1.73	0.53
26:1H:1756:G:H1'	26:1H:1758:G:C2	2.43	0.53
26:1H:1869:G:H8	26:1H:1869:G:H5''	1.73	0.53
26:1H:2294:C:C4	26:1H:2295:C:C5	2.96	0.53
29:11:24:ILE:HD11	29:11:91:ARG:HD2	1.90	0.53
36:68:93:PRO:HG3	36:68:114:ILE:HG12	1.90	0.53
38:88:5:ARG:NH2	38:88:6:ARG:HE	2.06	0.53
39:98:46:GLY:HA2	39:98:49:ASP:HB2	1.90	0.53
42:C8:88:ILE:C	42:C8:90:VAL:N	2.66	0.53
43:D8:1:MET:CE	43:D8:43:GLU:HG2	2.38	0.53
1:1G:881:G:H2'	1:1G:882:C:O4'	2.09	0.53
1:1G:1169:A:H2'	1:1G:1170:A:C8	2.43	0.53
1:1G:1326:C:H2'	1:1G:1327:C:C6	2.43	0.53
1:1G:1502:A:H5'	1:1G:1504:G:N7	2.24	0.53
2:12:131:PRO:O	2:12:134:GLU:N	2.40	0.53
4:32:98:GLU:O	4:32:103:ASN:ND2	2.41	0.53
16:7A:20:VAL:HG11	16:7A:32:TYR:CE2	2.43	0.53
57:3L:41:A:C2	57:3L:42:A:C8	2.96	0.53
26:14:669:G:H2'	26:14:669:G:N3	2.22	0.53
26:14:989:G:OP2	51:H5:11:SER:OG	2.23	0.53
26:14:2733:A:H61	30:29:202:LYS:HB3	1.73	0.53
30:29:70:ALA:O	30:29:72:VAL:N	2.42	0.53
34:69:81:VAL:O	34:69:143:SER:OG	2.22	0.53
41:75:56:GLY:O	41:75:59:THR:HG22	2.08	0.53
45:B5:55:ASN:HB2	45:B5:80:ILE:HG12	1.90	0.53
1:13:232:G:H2'	1:13:233:C:H6	1.72	0.53
1:13:1263:C:H2'	1:13:1264:C:C6	2.43	0.53
4:3E:185:PHE:CZ	4:3E:188:LEU:HD23	2.44	0.53
9:8E:34:ASN:O	9:8E:38:GLN:HB2	2.09	0.53
22:1K:17:U:O2'	22:1K:57:G:N2	2.40	0.53
24:3K:15:G:N2	24:3K:21:A:N7	2.56	0.53
26:1H:338:G:H2'	26:1H:339:U:H6	1.72	0.53
26:1H:933:A:H5'	61:1H:3919:HOH:O	2.08	0.53
26:1H:1339:G:H21	26:1H:1603:A:H1'	1.73	0.53
26:1H:1550:C:H2'	26:1H:1551:C:H6	1.72	0.53
30:21:166:THR:HG21	30:21:199:ARG:HH22	1.71	0.53
31:31:129:PHE:HA	31:31:142:TRP:HE1	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:5:VAL:HG11	32:41:100:TRP:HB2	1.88	0.53
40:A8:88:ASP:OD1	40:A8:90:GLY:N	2.41	0.53
48:I8:70:GLN:HG3	48:I8:80:HIS:HE2	1.73	0.53
1:1G:191:G:H1'	20:BA:104:LEU:O	2.08	0.53
1:1G:254:G:OP1	17:8A:67:LYS:O	2.26	0.53
1:1G:458:C:H2'	1:1G:464:G:C8	2.42	0.53
1:1G:910:C:OP2	12:3A:21:LYS:NZ	2.39	0.53
4:32:128:VAL:HG13	4:32:144:ASP:HB3	1.90	0.53
5:42:35:GLY:HA3	5:42:41:VAL:HG12	1.89	0.53
18:9A:53:ARG:HH21	18:9A:60:ALA:N	2.06	0.53
56:1L:73:A:H3'	56:1L:73:A:N3	2.23	0.53
26:14:55:G:H2'	26:14:56:A:C8	2.44	0.53
26:14:871:U:H5''	38:45:69:PHE:CE2	2.43	0.53
26:14:1776:G:H2'	26:14:1776:G:N3	2.23	0.53
30:29:6:GLY:O	30:29:195:LEU:HD12	2.08	0.53
31:39:102:PRO:HB2	31:39:105:VAL:HG23	1.90	0.53
32:49:56:ALA:HB2	32:49:153:ARG:NE	2.22	0.53
34:69:143:SER:OG	34:69:145:VAL:N	2.41	0.53
38:45:88:GLY:O	38:45:89:ASN:ND2	2.40	0.53
41:75:91:ARG:NH1	41:75:124:ASP:CG	2.67	0.53
4:3E:60:GLU:OE2	4:3E:199:ASN:N	2.40	0.53
10:1I:49:VAL:CG2	14:5I:41:ARG:HB2	2.36	0.53
17:8I:40:LYS:HG2	17:8I:41:LYS:H	1.73	0.53
26:1H:33:U:O2'	26:1H:446:G:N2	2.41	0.53
26:1H:1858:G:H4'	26:1H:1859:A:H5'	1.90	0.53
26:1H:2124:G:H21	28:71:217:THR:HG22	1.74	0.53
44:E8:86:LEU:C	44:E8:86:LEU:HD12	2.33	0.53
1:1G:197:A:H8	1:1G:198:G:C4	2.27	0.53
1:1G:1263:C:C2	1:1G:1273:G:N2	2.77	0.53
1:1G:1328:C:O2'	13:4A:29:ARG:NE	2.39	0.53
1:1G:1410:G:H2'	1:1G:1411:C:H6	1.73	0.53
3:22:132:ARG:HH12	4:32:47:ARG:HH12	1.55	0.53
9:82:82:ALA:HA	9:82:85:LEU:HG	1.89	0.53
57:3L:11:C:H2'	57:3L:12:U:H6	1.73	0.53
26:14:9:U:C5	26:14:2629:A:N6	2.76	0.53
26:14:795:C:H2'	26:14:796:C:C6	2.43	0.53
26:14:1444(A):A:O2'	26:14:1445:C:OP1	2.24	0.53
26:14:1899:G:O2'	26:14:1900:A:P	2.66	0.53
26:14:1973:G:H2'	26:14:1974:C:C6	2.42	0.53
26:14:2190:G:H2'	26:14:2191:G:C1'	2.37	0.53
26:14:2862:G:H2'	26:14:2863:C:H6	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:19:246:PRO:CA	29:19:255:LYS:NZ	2.70	0.53
30:29:13:ARG:HB3	30:29:22:PRO:HA	1.89	0.53
30:29:81:ILE:O	30:29:82:ARG:HB2	2.08	0.53
47:D5:4:ARG:NH1	47:D5:60:GLU:OE2	2.42	0.53
1:13:475:G:H2'	1:13:476:G:H5'	1.90	0.53
1:13:822:C:O2'	1:13:823:G:H5'	2.09	0.53
1:13:953:G:H1	1:13:1228:C:H42	1.57	0.53
1:13:1221:G:H4'	19:AI:53:ASN:O	2.08	0.53
1:13:1225:A:H5''	1:13:1226:C:OP2	2.08	0.53
2:1E:10:LEU:HD11	2:1E:217:ARG:NE	2.23	0.53
4:3E:88:VAL:H	5:4E:97:GLY:HA3	1.72	0.53
22:1K:55:PSU:O5'	22:1K:55:PSU:H6	1.91	0.53
26:1H:43:G:N2	26:1H:438:G:C4	2.77	0.53
26:1H:143:C:H4'	45:F8:38:GLU:OE2	2.08	0.53
26:1H:443:A:O2'	26:1H:1200:C:O2'	2.18	0.53
26:1H:807:U:O2'	26:1H:808:G:H5'	2.07	0.53
26:1H:1113:U:C5'	33:51:2:SER:HB2	2.36	0.53
26:1H:1404:C:O2'	26:1H:1405:U:H5'	2.08	0.53
31:31:23:ASP:CG	31:31:24:LEU:H	2.16	0.53
32:41:11:TYR:HA	32:41:15:VAL:HB	1.89	0.53
32:41:77:ILE:O	32:41:81:LYS:O	2.27	0.53
45:F8:26:TYR:O	45:F8:81:VAL:HG12	2.08	0.53
53:N8:37:LYS:HD2	53:N8:37:LYS:C	2.34	0.53
1:1G:195:A:C6	1:1G:196:A:N1	2.76	0.53
1:1G:498:A:H4'	1:1G:500:G:OP1	2.07	0.53
1:1G:523:A:N6	12:3A:92:ASP:HB2	2.20	0.53
1:1G:756:C:H2'	1:1G:757:U:C6	2.44	0.53
1:1G:1097:C:O2'	1:1G:1169:A:N3	2.40	0.53
1:1G:1099:G:C6	1:1G:1100:C:C4	2.96	0.53
1:1G:1290:G:H21	9:82:70:LYS:HE2	1.73	0.53
3:22:29:TYR:HD1	3:22:29:TYR:O	1.92	0.53
5:42:93:PRO:HG3	8:72:105:ARG:HG3	1.90	0.53
12:3A:60:LEU:HB2	12:3A:64:TYR:HB3	1.91	0.53
23:2L:21:U:H2'	23:2L:21:U:OP2	2.08	0.53
57:3L:48:C:C5	57:3L:59:A:H1'	2.43	0.53
26:14:857:C:H4'	48:E5:23:VAL:HG21	1.90	0.53
26:14:1225:C:HO2'	43:95:85:LYS:H	1.54	0.53
26:14:1790:C:H2'	26:14:1791:A:C5	2.43	0.53
26:14:2685:G:OP2	41:75:51:ARG:NH2	2.40	0.53
26:14:2688:U:H1'	26:14:2721:A:N6	2.23	0.53
26:14:2812:G:N2	26:14:2889:C:C2	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1J:44:G:C2	27:1J:48:A:C2	2.97	0.53
29:19:89:SER:HB2	29:19:159:ALA:H	1.72	0.53
30:29:50:GLY:HA2	30:29:78:LEU:HD23	1.90	0.53
30:29:166:THR:HG21	30:29:199:ARG:HH21	1.72	0.53
32:49:44:GLY:O	32:49:47:LYS:HG3	2.08	0.53
43:95:71:LEU:O	43:95:72:VAL:HG12	2.07	0.53
53:J5:41:PRO:O	53:J5:44:THR:OG1	2.22	0.53
1:13:148:G:N2	1:13:175:C:N3	2.56	0.53
1:13:168:G:N2	1:13:169:C:H41	2.06	0.53
1:13:443:C:N4	1:13:491:G:H1	2.07	0.53
1:13:1013:G:N2	1:13:1016:A:OP2	2.40	0.53
1:13:1190:G:H5''	3:2E:176:HIS:NE2	2.23	0.53
1:13:1502:A:H2	1:13:1505:G:N1	1.94	0.53
1:13:1510:U:H2'	1:13:1511:G:C8	2.44	0.53
10:1I:16:LEU:HD23	10:1I:94:VAL:HG13	1.89	0.53
16:7I:74:LEU:HA	16:7I:77:ALA:HB2	1.89	0.53
22:1K:11:C:H42	22:1K:25:C:H42	1.56	0.53
26:1H:548:A:N3	43:D8:21:ARG:NH1	2.56	0.53
26:1H:722:A:H2'	26:1H:723:G:C8	2.44	0.53
26:1H:1021:A:C8	26:1H:1022:G:H5''	2.43	0.53
26:1H:1405:U:H2'	26:1H:1406:U:H6	1.72	0.53
26:1H:1420:U:O2'	26:1H:1421:G:OP1	2.25	0.53
26:1H:2057:A:H2'	26:1H:2058:A:C8	2.43	0.53
26:1H:2359:C:OP1	55:Q8:52:LYS:HE2	2.08	0.53
26:1H:2801:A:H5'	26:1H:2895:U:O4'	2.09	0.53
37:78:29:LYS:HG2	37:78:30:THR:H	1.72	0.53
40:A8:18:ILE:O	40:A8:21:THR:HG22	2.09	0.53
1:1G:674:G:N2	1:1G:717:C:O2	2.39	0.53
1:1G:803:G:C6	1:1G:804:U:C4	2.96	0.53
1:1G:1103:C:C2	1:1G:1104:G:C8	2.95	0.53
1:1G:1172:C:H2'	1:1G:1173:G:C8	2.44	0.53
2:12:166:ASP:O	2:12:170:GLU:N	2.37	0.53
4:32:172:PRO:HB2	4:32:187:ARG:NH1	2.24	0.53
57:3L:6:G:N3	57:3L:68:G:H1'	2.23	0.53
26:14:13:A:N1	26:14:525:U:H2'	2.24	0.53
26:14:38:A:H2'	26:14:39:C:C6	2.44	0.53
26:14:77:C:H42	26:14:109:G:H1	1.57	0.53
26:14:270(Q):C:H5''	34:69:45:LYS:HD3	1.90	0.53
26:14:370:G:OP1	26:14:403:U:N3	2.31	0.53
26:14:582:G:H2'	26:14:583:G:C8	2.43	0.53
26:14:1509:C:H5''	26:14:1510:A:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1729:A:C5	26:14:1731:G:C6	2.97	0.53
31:39:125:LEU:HA	31:39:194:MET:HB2	1.90	0.53
37:35:138:LEU:HD11	37:35:143:GLY:C	2.33	0.53
38:45:22:LYS:CG	38:45:23:GLY:HA2	2.34	0.53
1:13:700:G:H4'	1:13:704:A:H1'	1.91	0.53
1:13:859:A:H2'	1:13:860:A:H8	1.74	0.53
1:13:946:A:H2'	1:13:947:G:C8	2.44	0.53
1:13:992:U:H4'	1:13:993:G:O5'	2.09	0.53
2:1E:168:THR:HA	2:1E:171:ALA:HB2	1.90	0.53
6:5E:3:ARG:HD3	6:5E:64:GLN:OE1	2.09	0.53
12:3I:60:LEU:HB3	12:3I:64:TYR:HB2	1.91	0.53
13:4I:13:LYS:C	13:4I:44:ARG:NH1	2.67	0.53
17:8I:22:LEU:HD11	17:8I:39:SER:HB3	1.90	0.53
24:3K:53:G:H1	24:3K:61:C:N4	2.06	0.53
26:1H:308:G:H5''	26:1H:309:G:OP2	2.08	0.53
26:1H:1188:U:C5'	43:D8:79:VAL:HG22	2.39	0.53
26:1H:1677:A:H8	26:1H:1677:A:O5'	1.92	0.53
28:7I:22:ILE:HD12	28:7I:193:ILE:HD11	1.90	0.53
40:A8:111:GLU:O	40:A8:112:PHE:CD1	2.62	0.53
42:C8:92:ARG:CD	43:D8:11:GLN:HG3	2.24	0.53
48:I8:17:GLN:O	48:I8:19:LYS:HD3	2.08	0.53
48:I8:37:LEU:HD11	48:I8:61:ALA:N	2.24	0.53
1:1G:746:A:H2'	1:1G:747:C:C6	2.43	0.53
1:1G:973:G:H1'	10:1A:55:LYS:HG2	1.91	0.53
1:1G:1016:A:O2'	1:1G:1217:C:O2'	2.26	0.53
1:1G:1354:C:H2'	1:1G:1355:G:C8	2.44	0.53
1:1G:1462:G:H2'	1:1G:1463:C:C6	2.43	0.53
7:62:45:ASP:HA	7:62:48:LYS:HE3	1.91	0.53
26:14:259:G:N2	26:14:621:A:H8	2.04	0.53
26:14:1001:A:H2'	26:14:1002:G:O4'	2.08	0.53
26:14:1576:U:H2'	26:14:1577:C:C6	2.44	0.53
26:14:2441:C:OP2	26:14:2586:C:O2'	2.19	0.53
26:14:2578:G:C5	30:29:140:SER:HB2	2.43	0.53
26:14:2689:U:P	26:14:2719:G:H22	2.31	0.53
26:14:2784:C:O2	30:29:37:ARG:NH2	2.42	0.53
27:1J:3:C:N4	27:1J:117:G:H22	2.06	0.53
30:29:11:MET:SD	30:29:24:THR:HG22	2.49	0.53
31:39:34:TRP:CZ3	37:35:8:PRO:HB3	2.44	0.53
37:35:3:LEU:HA	37:35:6:LEU:HD23	1.89	0.53
1:13:26:A:N6	1:13:558:G:O2'	2.40	0.53
1:13:1016:A:H8	1:13:1016:A:O5'	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1157:A:N6	1:13:1178:G:H21	2.06	0.53
1:13:1162:C:O5'	1:13:1162:C:H6	1.92	0.53
9:8E:22:GLY:N	9:8E:58:HIS:O	2.35	0.53
22:1K:37:T6A:H2'	22:1K:38:A:O4'	2.09	0.53
24:3K:57:G:H1	26:1H:2112:G:H22	1.56	0.53
26:1H:562:U:O4	26:1H:2036:C:H1'	2.08	0.53
26:1H:1545(A):A:H2'	26:1H:1546:C:O4'	2.09	0.53
26:1H:1567:A:OP1	29:11:60:ARG:NE	2.42	0.53
26:1H:2832:U:H4'	26:1H:2833:G:H5''	1.90	0.53
32:41:115:ARG:NH1	32:41:115:ARG:HB3	2.23	0.53
45:F8:49:VAL:HG12	45:F8:50:LYS:N	2.22	0.53
46:G8:85:VAL:HG23	46:G8:96:ILE:CG1	2.24	0.53
47:H8:28:MET:O	47:H8:35:ARG:N	2.40	0.53
50:K8:34:GLU:O	50:K8:38:GLN:HG3	2.08	0.53
1:1G:17:U:H2'	1:1G:18:C:C6	2.44	0.53
1:1G:155:C:N4	1:1G:166:G:H1	2.06	0.53
1:1G:501:C:H2'	1:1G:502:G:C8	2.44	0.53
1:1G:865:A:H5'	1:1G:1078:U:H5	1.74	0.53
1:1G:1072:G:H2'	1:1G:1073:U:O4'	2.08	0.53
3:22:21:ARG:HB3	3:22:21:ARG:NH1	2.24	0.53
3:22:69:HIS:HD2	3:22:104:GLN:HB3	1.74	0.53
4:32:31:CYS:HA	59:32:302:SF4:S2	2.49	0.53
20:BA:86:ARG:NH1	20:BA:86:ARG:HB2	2.23	0.53
26:14:195:A:H4'	26:14:251:A:O2'	2.08	0.53
26:14:921:G:C5	26:14:922:U:C4	2.97	0.53
26:14:1115:G:C5	26:14:1116:C:C4	2.97	0.53
26:14:1239:G:H2'	26:14:1240:U:O4'	2.08	0.53
26:14:1425:G:H2'	26:14:1426:G:C8	2.43	0.53
26:14:1507:A:C4	26:14:1508:A:H1'	2.44	0.53
26:14:2233:U:OP2	61:14:3536:HOH:O	2.18	0.53
26:14:2402:C:H4'	26:14:2402:C:OP1	2.08	0.53
26:14:2472:G:N1	26:14:2477:C:OP1	2.41	0.53
26:14:2734:A:C8	26:14:2735:G:C8	2.97	0.53
31:39:25:PRO:C	31:39:27:GLU:N	2.67	0.53
37:35:11:GLY:C	37:35:13:ASN:H	2.16	0.53
42:85:91:ASP:C	42:85:92:ARG:HG3	2.33	0.53
44:A5:20:VAL:CG2	44:A5:47:VAL:HG21	2.38	0.53
45:B5:36:LYS:HG3	45:B5:56:THR:HG23	1.91	0.53
45:B5:52:VAL:N	45:B5:82:GLN:O	2.42	0.53
1:13:46:G:H2'	1:13:366:C:H5	1.73	0.53
1:13:558:G:H5''	1:13:559:A:OP2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:31:TYR:CB	2:1E:42:ILE:HD11	2.38	0.53
2:1E:212:GLN:O	2:1E:216:SER:OG	2.17	0.53
3:2E:156:ARG:N	3:2E:196:LEU:HD22	2.24	0.53
5:4E:67:VAL:O	5:4E:69:VAL:HG23	2.09	0.53
6:5E:67:MET:SD	6:5E:75:LEU:HD12	2.49	0.53
7:6E:5:ARG:CZ	7:6E:7:ALA:HA	2.38	0.53
13:4I:35:GLU:C	13:4I:38:GLY:H	2.17	0.53
20:BI:63:ILE:CG2	20:BI:77:ALA:HB1	2.39	0.53
22:1K:6:G:N2	22:1K:7:U:O4	2.41	0.53
26:1H:39:C:O2	31:31:46:ARG:NH2	2.42	0.53
26:1H:875:G:H2'	26:1H:876:C:O4'	2.07	0.53
26:1H:943:U:OP2	37:78:36:LYS:HG2	2.09	0.53
26:1H:1252:G:N3	42:C8:33:ARG:HD2	2.24	0.53
26:1H:1627:G:C2'	26:1H:1628:G:H5'	2.39	0.53
26:1H:2126:A:H4'	26:1H:2127:G:OP1	2.08	0.53
29:11:223:GLY:HA3	29:11:231:HIS:CE1	2.44	0.53
34:61:110:ASP:HB2	34:61:130:TYR:OH	2.09	0.53
38:88:133:ARG:O	38:88:134:ARG:HB2	2.09	0.53
44:E8:57:ASN:HA	44:E8:61:ASN:HD22	1.74	0.53
1:1G:42:G:H2'	1:1G:43:C:O4'	2.08	0.53
2:12:58:ILE:HB	2:12:221:LEU:CB	2.38	0.53
8:72:35:ILE:O	8:72:39:LEU:HD22	2.09	0.53
57:3L:25:C:H2'	57:3L:26:A:O4'	2.08	0.53
26:14:27:G:O2'	26:14:28:A:OP2	2.24	0.53
26:14:320:A:H4'	26:14:322:A:C8	2.44	0.53
26:14:1204:A:N1	26:14:1241:A:H2	2.06	0.53
26:14:1257:C:OP1	31:39:75:HIS:HE1	1.90	0.53
26:14:2275:C:H5'	26:14:2275:C:H6	1.74	0.53
27:1J:65:C:H41	27:1J:108:C:C2'	2.21	0.53
32:49:19:LEU:HG	32:49:175:LEU:HD12	1.90	0.53
37:35:107:LYS:O	37:35:109:GLY:N	2.31	0.53
42:85:100:VAL:O	42:85:101:ARG:HG2	2.08	0.53
43:95:39:LEU:H	43:95:39:LEU:HD12	1.74	0.53
45:B5:21:PHE:CZ	45:B5:92:LEU:HD23	2.44	0.53
46:C5:31:LEU:CD1	46:C5:36:ALA:HB3	2.37	0.53
48:E5:49:LYS:HB2	48:E5:82:ARG:NH1	2.24	0.53
53:J5:6:VAL:HG13	53:J5:7:PRO:HD2	1.89	0.53
55:M5:37:SER:OG	55:M5:39:LYS:O	2.27	0.53
2:1E:189:ASP:HB3	2:1E:205:ASP:H	1.73	0.53
8:7E:8:ASP:O	8:7E:12:ARG:HB2	2.09	0.53
13:4I:11:ARG:HG2	13:4I:46:LYS:HD2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2K:24:C:H2'	23:2K:25:U:C6	2.43	0.53
26:1H:1257:C:OP1	31:31:75:HIS:HE1	1.92	0.53
26:1H:2399:G:H8	26:1H:2399:G:O5'	1.92	0.53
26:1H:2715:C:H2'	26:1H:2716:U:H6	1.74	0.53
31:31:197:ASP:O	31:31:199:TRP:N	2.42	0.53
32:41:151:ALA:O	32:41:153:ARG:NH1	2.42	0.53
41:B8:26:ASP:CG	41:B8:120:ARG:HH22	2.16	0.53
1:1G:261:U:OP2	20:BA:80:ARG:NH2	2.37	0.53
1:1G:458:C:N3	1:1G:474:G:N2	2.55	0.53
1:1G:557:G:H2'	1:1G:558:G:O4'	2.09	0.53
1:1G:668:G:C2'	1:1G:669:U:H5'	2.39	0.53
1:1G:977:A:H2'	1:1G:978:A:H5'	1.91	0.53
4:32:18:LYS:HG3	59:32:302:SF4:S1	2.49	0.53
6:52:53:ALA:HB3	6:52:86:ARG:HD3	1.91	0.53
7:62:148:ASN:O	7:62:149:ARG:HD3	2.09	0.53
23:2L:20:G:C4	23:2L:58:A:C2	2.97	0.53
26:14:181:A:H2'	26:14:182:A:C8	2.44	0.53
26:14:184:C:H2'	26:14:185:U:C6	2.43	0.53
26:14:265:A:C8	26:14:266:G:H1'	2.43	0.53
26:14:446:G:H8	61:14:3503:HOH:O	1.92	0.53
26:14:597:U:H2'	26:14:598:G:H8	1.73	0.53
26:14:660:G:H21	37:35:12:ALA:CA	2.22	0.53
26:14:1568:G:P	29:19:63:ARG:HH12	2.32	0.53
26:14:2056:G:C2	26:14:2057:A:C8	2.96	0.53
26:14:2349:G:OP2	55:M5:42:ARG:NH2	2.42	0.53
26:14:2453:A:H2'	26:14:2454:G:O4'	2.09	0.53
26:14:2805:G:H2'	26:14:2807:G:O4'	2.08	0.53
37:35:41:ARG:N	37:35:41:ARG:HD2	2.24	0.53
38:45:81:VAL:HG23	38:45:82:ARG:H	1.74	0.53
47:D5:80:ARG:HD2	47:D5:80:ARG:H	1.74	0.53
1:13:963:G:H21	10:1I:55:LYS:NZ	2.07	0.53
1:13:1070:U:OP1	5:4E:18:ARG:NH2	2.42	0.53
1:13:1368:G:H5''	9:8E:112:LYS:HB3	1.90	0.53
4:3E:150:GLU:OE1	4:3E:150:GLU:N	2.42	0.53
26:1H:141:A:OP2	26:1H:141(A):C:N4	2.37	0.53
26:1H:527:C:H4'	26:1H:528:A:H5'	1.90	0.53
26:1H:750:A:OP2	61:1H:3553:HOH:O	2.19	0.53
26:1H:1643:G:C5	26:1H:1644:C:C5	2.96	0.53
26:1H:2456:C:O5'	26:1H:2456:C:H6	1.91	0.53
35:58:40:PRO:O	42:C8:64:ARG:HG2	2.09	0.53
42:C8:92:ARG:CZ	43:D8:11:GLN:H	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:J8:58:ILE:HG12	49:J8:87:PRO:HD3	1.91	0.53
50:K8:42:GLY:C	50:K8:44:LEU:N	2.65	0.53
55:Q8:49:VAL:HG12	55:Q8:49:VAL:O	2.09	0.53
1:1G:1369:C:H2'	1:1G:1370:G:C8	2.44	0.53
5:42:41:VAL:O	5:42:67:VAL:HG12	2.09	0.53
13:4A:80:ARG:NH2	19:AA:65:ASN:HD22	2.05	0.53
16:7A:68:ASP:O	16:7A:71:ARG:HB3	2.08	0.53
19:AA:56:GLN:OE1	19:AA:59:PRO:HD3	2.10	0.53
57:3L:12:U:C2	57:3L:13:C:H1'	2.44	0.53
26:14:275:G:O2'	26:14:276:A:O4'	2.22	0.53
26:14:482:A:H5''	26:14:483:A:OP1	2.06	0.53
26:14:1161:C:H2'	26:14:1162:G:C8	2.44	0.53
26:14:1419:A:H2'	26:14:1421:G:C8	2.44	0.53
26:14:1812:A:O2'	29:19:45:ASN:HB2	2.09	0.53
26:14:1995:U:H3'	26:14:1996:C:H2'	1.90	0.53
26:14:2101:G:N2	26:14:2189:U:O2	2.42	0.53
26:14:2134:A:C2	26:14:2158:A:H1'	2.44	0.53
26:14:2311:A:H62	32:49:44:GLY:HA3	1.73	0.53
26:14:2320:A:H2'	26:14:2333:A:H62	1.73	0.53
26:14:2335:A:C8	26:14:2337:G:C5	2.96	0.53
26:14:2356:C:C5	26:14:2357:U:C4	2.97	0.53
30:29:46:ALA:HB2	30:29:82:ARG:HA	1.91	0.53
30:29:131:ALA:O	30:29:132:HIS:C	2.52	0.53
43:95:85:LYS:HD2	43:95:87:HIS:N	2.24	0.53
45:B5:18:TYR:C	45:B5:20:GLY:N	2.65	0.53
1:13:1044:A:C5	1:13:1045:C:H1'	2.45	0.52
1:13:1145:C:H5''	1:13:1146:A:OP1	2.09	0.52
1:13:1259:C:O2	1:13:1283:G:H1'	2.09	0.52
1:13:1289:A:N1	1:13:1371:G:O2'	2.39	0.52
1:13:1347:G:C6	9:8E:10:ARG:NH2	2.78	0.52
4:3E:115:ARG:NH2	61:3E:401:HOH:O	2.43	0.52
20:BI:29:LYS:C	20:BI:33:ILE:HG12	2.35	0.52
22:1K:28:U:H3	22:1K:42:A:H61	1.57	0.52
22:1K:66:A:H3'	22:1K:67:C:H5'	1.91	0.52
26:1H:956:G:OP2	38:88:14:ARG:NH2	2.42	0.52
28:71:43:VAL:HG23	28:71:214:VAL:HG22	1.89	0.52
28:71:226:PRO:HD2	28:71:227:HIS:CE1	2.44	0.52
30:21:78:LEU:HD23	30:21:78:LEU:O	2.09	0.52
41:B8:3:ARG:HG3	41:B8:7:ILE:N	2.24	0.52
43:D8:21:ARG:NH2	43:D8:93:GLU:OE2	2.42	0.52
47:H8:69:THR:HG22	47:H8:90:VAL:HG22	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:403:C:OP1	4:32:137:SER:OG	2.27	0.52
1:1G:1071:C:C2	1:1G:1072:G:N7	2.77	0.52
2:12:51:LEU:O	2:12:55:PHE:N	2.38	0.52
4:32:101:LEU:HD23	4:32:121:VAL:CG1	2.39	0.52
4:32:146:ILE:H	4:32:146:ILE:HD12	1.73	0.52
6:52:82:ARG:HB2	6:52:85:VAL:HG23	1.90	0.52
10:1A:34:VAL:HG13	10:1A:74:ILE:HG21	1.90	0.52
26:14:839:U:H2'	26:14:840:C:H6	1.73	0.52
26:14:1000:A:C6	26:14:1001:A:N1	2.77	0.52
26:14:1210:A:H5'	26:14:1212:G:H5'	1.91	0.52
26:14:2839:G:H5'	39:55:46:GLY:HA2	1.91	0.52
27:1J:4:C:H2'	27:1J:5:C:C6	2.43	0.52
27:1J:9:G:H5'	40:65:25:ARG:HH12	1.74	0.52
31:39:3:GLU:N	31:39:24:LEU:HG	2.24	0.52
32:49:15:VAL:HG12	32:49:19:LEU:CD1	2.39	0.52
32:49:34:LEU:HD12	32:49:99:MET:HE2	1.91	0.52
34:69:14:ASP:OD1	34:69:15:VAL:N	2.42	0.52
34:69:125:GLU:OE2	34:69:141:LYS:HB2	2.09	0.52
41:75:18:ASP:OD1	41:75:18:ASP:N	2.41	0.52
1:13:1218:C:H2'	1:13:1219:U:C6	2.43	0.52
1:13:1240:U:OP1	7:6E:119:ARG:NH2	2.42	0.52
1:13:1448:C:N4	1:13:1455:G:H1	2.05	0.52
5:4E:41:VAL:HG12	5:4E:42:GLY:N	2.24	0.52
8:7E:40:ALA:HA	8:7E:45:ILE:HG13	1.92	0.52
18:9I:29:PHE:HE1	18:9I:31:LEU:HB3	1.74	0.52
24:3K:7:U:H2'	24:3K:49:G:H5'	1.91	0.52
26:1H:2254:C:O5'	26:1H:2254:C:H6	1.93	0.52
26:1H:2261:C:H1'	26:1H:2388:A:N3	2.24	0.52
26:1H:2331:G:H4'	48:I8:42:GLY:HA3	1.91	0.52
40:A8:95:HIS:O	40:A8:98:VAL:HG23	2.09	0.52
44:E8:76:VAL:CG2	44:E8:101:SER:HB3	2.39	0.52
46:G8:62:GLU:O	46:G8:63:LYS:HD2	2.08	0.52
1:1G:56:U:H2'	1:1G:57:G:H8	1.74	0.52
1:1G:894:G:C6	1:1G:895:G:C5	2.97	0.52
1:1G:1067:A:H4'	1:1G:1068:G:O5'	2.08	0.52
2:12:174:VAL:HA	2:12:177:ALA:HB3	1.91	0.52
10:1A:30:SER:HB3	10:1A:81:THR:HG22	1.91	0.52
26:14:558:G:P	35:15:111:PRO:HD2	2.50	0.52
26:14:649:G:C5	26:14:650:C:C4	2.98	0.52
26:14:817:C:C5	26:14:818:G:N7	2.77	0.52
26:14:920:G:O2'	26:14:921:G:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:45:34:LEU:HD12	38:45:130:LYS:O	2.09	0.52
40:65:74:ALA:HB1	40:65:107:GLU:HB2	1.92	0.52
55:M5:60:LEU:C	55:M5:60:LEU:HD12	2.35	0.52
1:13:15:G:H4'	5:4E:24:ARG:HH12	1.74	0.52
1:13:110:C:H2'	1:13:111:G:O4'	2.09	0.52
1:13:1074:G:N3	1:13:1102:A:C2	2.77	0.52
1:13:1267:C:O2	21:1F:20:LYS:HE2	2.09	0.52
2:1E:10:LEU:HD11	2:1E:217:ARG:HE	1.75	0.52
3:2E:129:ALA:HB3	3:2E:132:ARG:HG2	1.92	0.52
15:6I:6:GLU:H	15:6I:6:GLU:CD	2.16	0.52
18:9I:38:GLU:HA	18:9I:41:LYS:NZ	2.24	0.52
19:AI:39:THR:HG23	19:AI:68:GLY:O	2.09	0.52
22:1K:14:A:H62	22:1K:22:G:N2	2.08	0.52
23:2K:20:G:C5	23:2K:58:A:C2	2.97	0.52
26:1H:274:G:H2'	26:1H:275:G:C1'	2.39	0.52
26:1H:817:C:H3'	61:1H:3534:HOH:O	2.09	0.52
26:1H:821:A:H5''	26:1H:822:U:H6	1.74	0.52
26:1H:1161:C:H3'	26:1H:1161:C:C6	2.45	0.52
26:1H:1266:G:O4'	44:E8:15:ARG:NH2	2.42	0.52
26:1H:1638:C:H5''	26:1H:2710:C:O2'	2.08	0.52
26:1H:1696:G:C6	26:1H:1697:G:C4	2.97	0.52
27:16:29:A:P	40:A8:32:LEU:HD13	2.49	0.52
27:16:29:A:H5''	27:16:30:C:OP2	2.10	0.52
28:71:192:PHE:HD1	28:71:195:ALA:HB3	1.74	0.52
28:71:200:LYS:HA	28:71:208:PHE:CE1	2.44	0.52
29:11:94:LEU:HD23	29:11:95:LEU:N	2.24	0.52
31:31:62:ARG:HB3	31:31:62:ARG:CZ	2.40	0.52
39:98:48:VAL:HA	39:98:51:LEU:HB2	1.91	0.52
41:B8:33:LYS:HG3	41:B8:82:LEU:O	2.09	0.52
41:B8:125:ARG:HA	41:B8:128:GLU:HG2	1.90	0.52
42:C8:75:ASN:HB3	42:C8:77:SER:N	2.24	0.52
47:H8:7:ALA:HB3	47:H8:61:LEU:HB3	1.91	0.52
47:H8:61:LEU:HB2	47:H8:62:PRO:HD2	1.91	0.52
51:L8:31:LEU:HB3	51:L8:32:GLN:OE1	2.09	0.52
1:1G:744:C:O2'	1:1G:851:G:N2	2.42	0.52
1:1G:1051:C:H2'	1:1G:1052:U:C6	2.45	0.52
1:1G:1064:G:C8	1:1G:1066:C:C2	2.97	0.52
1:1G:1132:C:H2'	1:1G:1133:G:H8	1.72	0.52
2:12:34:ALA:HB3	2:12:36:ARG:HD3	1.91	0.52
2:12:51:LEU:HD22	2:12:54:THR:HB	1.91	0.52
4:32:24:GLU:HG2	4:32:25:ARG:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:42:51:VAL:HB	5:42:52:PRO:HD3	1.91	0.52
13:4A:81:LEU:CG	13:4A:89:GLY:HA2	2.39	0.52
14:5A:17:LYS:HD2	14:5A:18:VAL:H	1.73	0.52
26:14:631:A:O2'	37:35:67:MET:HB3	2.09	0.52
26:14:1022:G:C6	26:14:1140:C:C4	2.97	0.52
26:14:1190:G:OP1	37:35:32:THR:HA	2.10	0.52
26:14:2283:C:C2	26:14:2389:G:C2	2.98	0.52
26:14:2582:G:O2'	26:14:2583:G:H5'	2.09	0.52
26:14:2733:A:N6	30:29:202:LYS:HB3	2.24	0.52
26:14:2786:U:H5''	30:29:66:HIS:HB2	1.90	0.52
27:1J:46:A:H2'	27:1J:47:C:H6	1.74	0.52
38:45:87:LYS:HB3	38:45:90:VAL:HG23	1.91	0.52
40:65:7:TYR:CZ	40:65:91:PRO:HG3	2.45	0.52
43:95:14:VAL:HB	43:95:96:ILE:HG21	1.91	0.52
55:M5:22:VAL:HG11	55:M5:58:ILE:HD11	1.90	0.52
55:M5:40:GLU:H	55:M5:43:GLN:HB2	1.73	0.52
1:13:165:C:H2'	1:13:166:G:H8	1.73	0.52
1:13:1497:G:H2'	1:13:1498:U:H5'	1.92	0.52
1:13:1517:G:N3	26:1H:1919:A:O2'	2.40	0.52
8:7E:17:THR:HG21	8:7E:80:ILE:HD11	1.91	0.52
19:AI:19:VAL:O	19:AI:23:ASN:N	2.30	0.52
26:1H:1290:C:H2'	26:1H:1291:C:H6	1.73	0.52
26:1H:1931:U:H5'	26:1H:1931:U:O2	2.10	0.52
26:1H:2105:C:H2'	26:1H:2106:G:C8	2.44	0.52
26:1H:2298:A:H2'	26:1H:2299:G:O4'	2.09	0.52
26:1H:2309:A:C5	26:1H:2310:A:C8	2.97	0.52
26:1H:2789:C:H1'	26:1H:2892:A:C2	2.44	0.52
27:16:54:G:H2'	27:16:55:U:C6	2.42	0.52
34:61:113:ARG:HH12	34:61:132:PRO:HB3	1.73	0.52
55:Q8:45:GLY:O	55:Q8:46:ARG:C	2.51	0.52
1:1G:108:G:H5'	1:1G:109:A:C5'	2.40	0.52
1:1G:600:C:H2'	1:1G:601:C:C6	2.41	0.52
1:1G:1273:G:H5''	1:1G:1274:G:N7	2.24	0.52
1:1G:1305:G:N2	1:1G:1331:G:H2'	2.23	0.52
3:22:20:SER:OG	3:22:36:ASP:OD2	2.25	0.52
5:42:34:VAL:HG13	5:42:66:MET:HE1	1.92	0.52
5:42:52:PRO:O	5:42:56:GLN:HG2	2.09	0.52
26:14:105:C:H2'	26:14:106:C:C6	2.44	0.52
26:14:121:G:H8	26:14:121:G:O5'	1.93	0.52
26:14:608:A:H2'	26:14:609:A:O4'	2.10	0.52
26:14:848:G:H2'	26:14:849:A:H8	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1427:A:H4'	26:14:1428:C:O4'	2.08	0.52
26:14:2054:A:H5''	26:14:2055:C:O5'	2.10	0.52
26:14:2107:C:O2'	26:14:2108:C:OP1	2.26	0.52
26:14:2786:U:O2	30:29:62:PRO:HB3	2.10	0.52
30:29:56:PRO:HD2	30:29:58:ARG:NH2	2.24	0.52
35:15:40:PRO:HB3	42:85:68:ALA:HB2	1.91	0.52
43:95:5:VAL:HB	43:95:37:VAL:HG12	1.90	0.52
47:D5:25:PRO:O	47:D5:85:HIS:HA	2.09	0.52
1:13:828:A:H4'	1:13:828:A:OP1	2.08	0.52
1:13:1207:G:C6	1:13:1208:C:C4	2.98	0.52
1:13:1379:G:O6	7:6E:2:ALA:N	2.42	0.52
1:13:1440:C:H2'	1:13:1441:G:O4'	2.10	0.52
4:3E:8:VAL:CG1	4:3E:21:LEU:HB2	2.39	0.52
13:4I:67:GLU:O	13:4I:68:GLY:C	2.53	0.52
26:1H:419:C:H2'	26:1H:420:C:O4'	2.09	0.52
26:1H:673:C:H5''	31:31:81:PRO:HD2	1.91	0.52
26:1H:686:G:H4'	26:1H:687:C:OP2	2.09	0.52
26:1H:956:G:N2	26:1H:960:A:OP2	2.40	0.52
26:1H:1465:G:C4	26:1H:1466:G:C8	2.97	0.52
26:1H:2125:G:N3	26:1H:2173:A:N6	2.57	0.52
26:1H:2415:G:C2	26:1H:2416:C:C2	2.97	0.52
26:1H:2740:A:H2'	26:1H:2741:A:C8	2.45	0.52
26:1H:2788:C:P	30:21:61:ARG:HH12	2.31	0.52
31:31:6:VAL:HG11	31:31:119:ARG:HA	1.92	0.52
42:C8:90:VAL:HG22	43:D8:39:LEU:HB3	1.90	0.52
44:E8:29:LEU:CD1	44:E8:51:LEU:HD21	2.39	0.52
1:1G:1015:A:H2'	1:1G:1016:A:C8	2.45	0.52
1:1G:1244:C:H2'	1:1G:1245:A:C8	2.44	0.52
2:12:24:TRP:HA	2:12:191:ASP:HA	1.92	0.52
8:72:120:THR:HG22	8:72:123:GLU:OE1	2.09	0.52
12:3A:20:LYS:HE2	12:3A:20:LYS:C	2.35	0.52
13:4A:59:TYR:O	13:4A:63:THR:N	2.43	0.52
15:6A:24:SER:OG	15:6A:27:VAL:HG23	2.09	0.52
17:8A:81:ARG:HD2	17:8A:84:LEU:HD12	1.92	0.52
26:14:470:A:H2'	26:14:471:A:O4'	2.08	0.52
26:14:614:U:H4'	26:14:615:G:OP1	2.10	0.52
26:14:618:G:H4'	31:39:205:ARG:HH11	1.75	0.52
26:14:855:G:O2'	48:E5:27:GLU:HG2	2.08	0.52
26:14:1169:G:C2	26:14:1170:G:HI'	2.45	0.52
26:14:2338:G:N2	26:14:2339:G:C4	2.78	0.52
27:1J:116:G:H8	27:1J:116:G:OP2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:52:LYS:HD3	31:39:56:GLU:O	2.08	0.52
31:39:127:GLU:OE1	31:39:127:GLU:HA	2.06	0.52
33:59:10:PRO:HG2	33:59:50:VAL:HG12	1.92	0.52
34:69:93:THR:O	34:69:97:ILE:HG13	2.10	0.52
46:C5:17:SER:HA	46:C5:71:LYS:HD2	1.90	0.52
49:F5:29:GLY:C	49:F5:31:GLY:H	2.18	0.52
1:13:636:U:H2'	1:13:637:G:C8	2.45	0.52
1:13:1112:C:O2	3:2E:179:ARG:HG2	2.10	0.52
6:5E:67:MET:CE	6:5E:75:LEU:HD12	2.38	0.52
9:8E:112:LYS:CA	9:8E:119:ALA:HB2	2.28	0.52
9:8E:118:LYS:O	9:8E:119:ALA:HB3	2.09	0.52
16:7I:79:VAL:HB	16:7I:80:PHE:CD2	2.45	0.52
19:AI:12:ASP:HB2	19:AI:35:SER:OG	2.09	0.52
19:AI:50:ALA:HA	19:AI:58:VAL:O	2.10	0.52
23:2K:19:G:C2	23:2K:59:A:C5	2.97	0.52
26:1H:934:G:H2'	26:1H:935:C:C6	2.44	0.52
26:1H:1354:A:H2'	26:1H:1355:G:O4'	2.09	0.52
26:1H:1680:U:O2	26:1H:1763:G:H3'	2.10	0.52
26:1H:2126:A:H62	26:1H:2163:C:H1'	1.75	0.52
26:1H:2212:A:H1'	26:1H:2215:G:C5	2.45	0.52
26:1H:2233:U:H2'	26:1H:2234:G:C8	2.45	0.52
26:1H:2350:C:H5'	55:Q8:46:ARG:HH12	1.74	0.52
26:1H:2412:A:H2'	26:1H:2413:G:O4'	2.09	0.52
28:7I:192:PHE:CD1	28:7I:196:LEU:HD22	2.45	0.52
29:11:43:ARG:HD2	29:11:43:ARG:H	1.75	0.52
29:11:70:TRP:CD1	29:11:70:TRP:C	2.87	0.52
31:31:119:ARG:HB3	31:31:119:ARG:CZ	2.39	0.52
32:41:37:VAL:HG13	32:41:159:VAL:HG12	1.92	0.52
38:88:14:ARG:HG2	38:88:41:TRP:HH2	1.74	0.52
47:H8:30:ASN:HA	47:H8:89:PHE:CE1	2.45	0.52
1:1G:1279:A:O2'	1:1G:1281:U:OP2	2.20	0.52
3:22:91:LEU:HB2	3:22:99:VAL:HG12	1.92	0.52
5:42:27:ARG:HH11	5:42:47:LYS:NZ	2.07	0.52
10:1A:61:GLU:OE1	14:5A:58:LYS:HD2	2.09	0.52
26:14:920:G:H2'	26:14:921:G:H8	1.74	0.52
26:14:1499:C:H2'	26:14:1500:G:C8	2.45	0.52
26:14:1567:A:H5'	29:19:58:HIS:ND1	2.25	0.52
26:14:1607:C:N4	26:14:1621:U:H2'	2.25	0.52
26:14:1729:A:H2'	26:14:1731:G:H22	1.74	0.52
26:14:2102:U:H3	26:14:2187:G:H1	1.55	0.52
26:14:2252:G:H2'	26:14:2253:G:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2360:A:H2'	26:14:2361:A:O4'	2.10	0.52
26:14:2365:G:OP1	48:E5:54:GLY:HA2	2.09	0.52
27:1J:14:U:H4'	27:1J:70:C:O2	2.09	0.52
30:29:15:PHE:CD2	41:75:81:PRO:HD3	2.45	0.52
30:29:112:GLY:O	30:29:159:HIS:HA	2.09	0.52
32:49:18:GLU:O	32:49:22:ARG:N	2.42	0.52
32:49:161:THR:CG2	32:49:163:ALA:H	2.19	0.52
34:69:97:ILE:O	34:69:100:ALA:HB3	2.10	0.52
44:A5:88:ARG:HG2	44:A5:88:ARG:HH11	1.74	0.52
1:13:12:U:O2'	1:13:526:C:H4'	2.10	0.52
1:13:377:G:OP1	16:7I:3:LYS:HD2	2.10	0.52
1:13:968:A:H4'	1:13:969:A:OP2	2.10	0.52
1:13:1002:G:C2	1:13:1003:G:H1'	2.44	0.52
16:7I:28:ARG:HG3	16:7I:29:ASP:OD1	2.09	0.52
19:AI:29:ARG:HH12	19:AI:31:ILE:HG23	1.74	0.52
23:2K:59:A:H4'	23:2K:60:A:OP1	2.07	0.52
26:1H:425:G:H2'	26:1H:426:C:C6	2.44	0.52
26:1H:588:U:C2	26:1H:589:C:C5	2.98	0.52
26:1H:592:G:C2	55:Q8:4:MET:HE1	2.44	0.52
26:1H:768:G:O2'	26:1H:1379:A:N6	2.42	0.52
26:1H:1176:G:H3'	26:1H:1177:A:C4	2.45	0.52
26:1H:1396:U:O2	26:1H:1396:U:H2'	2.10	0.52
26:1H:2315:G:H5''	26:1H:2316:C:OP2	2.08	0.52
26:1H:2680:C:O2'	26:1H:2681:C:H5'	2.10	0.52
27:16:65:C:H5''	27:16:66:A:OP2	2.10	0.52
30:21:116:VAL:HG23	30:21:120:TRP:CD1	2.38	0.52
32:41:41:GLN:O	32:41:89:GLY:HA3	2.10	0.52
1:1G:924:C:N4	1:1G:925:G:O6	2.42	0.52
1:1G:1007:C:H2'	1:1G:1008:C:H6	1.74	0.52
1:1G:1014:A:H5''	19:AA:15:LEU:HD21	1.92	0.52
1:1G:1217:C:H5''	14:5A:9:LYS:NZ	2.25	0.52
1:1G:1369:C:OP1	14:5A:61:TRP:NE1	2.41	0.52
26:14:270(L):U:O2	34:69:50:ARG:HD3	2.10	0.52
26:14:460:A:H62	26:14:469:G:H21	1.56	0.52
26:14:470:A:H8	26:14:470:A:C5'	2.21	0.52
26:14:528:A:H2	26:14:2043:C:C5'	2.23	0.52
26:14:806:C:P	37:35:41:ARG:NH2	2.83	0.52
26:14:919:G:C4	26:14:920:G:C8	2.97	0.52
26:14:921:G:C6	26:14:922:U:C4	2.98	0.52
26:14:1582:C:O2'	26:14:1586:A:H8	1.93	0.52
26:14:1833:U:O2'	26:14:1969:A:N1	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2590:A:OP2	29:19:237:GLU:HB3	2.10	0.52
31:39:11:VAL:HG23	31:39:13:SER:H	1.75	0.52
32:49:3:LEU:HA	32:49:8:LYS:NZ	2.24	0.52
32:49:42:GLY:O	32:49:43:LEU:HD13	2.10	0.52
32:49:127:GLY:HA2	32:49:166:ASP:CG	2.35	0.52
40:65:69:VAL:CG2	40:65:101:LEU:HD13	2.40	0.52
46:C5:8:LYS:HE2	46:C5:95:LYS:NZ	2.25	0.52
1:13:130:A:OP2	17:8I:63:ARG:NH2	2.42	0.52
1:13:407:G:O4'	4:3E:119:GLN:NE2	2.43	0.52
1:13:977:A:O2'	1:13:979:C:OP2	2.13	0.52
1:13:1252:A:H2'	1:13:1253:G:C8	2.44	0.52
2:1E:161:ALA:C	2:1E:162:ILE:HD13	2.34	0.52
2:1E:219:VAL:O	2:1E:223:ILE:HG12	2.09	0.52
19:AI:18:LYS:HZ1	19:AI:22:LEU:HB2	1.74	0.52
23:2K:48:U:O2'	23:2K:49:C:OP2	2.25	0.52
26:1H:273:G:H1	26:1H:364:C:H42	1.58	0.52
26:1H:1187:G:OP2	61:1H:3554:HOH:O	2.19	0.52
26:1H:1288:U:O2'	26:1H:1647:G:N2	2.43	0.52
26:1H:1444:G:N2	26:1H:1548:C:C2	2.78	0.52
26:1H:1997:G:H5''	30:21:117:MET:HE2	1.90	0.52
26:1H:2408:U:O5'	26:1H:2408:U:H6	1.93	0.52
32:41:47:LYS:HD2	32:41:81:LYS:CB	2.38	0.52
39:98:97:VAL:HA	39:98:113:LEU:O	2.09	0.52
47:H8:44:PHE:CD1	47:H8:44:PHE:C	2.88	0.52
1:1G:147:G:H1	1:1G:175:C:H42	1.56	0.52
1:1G:618:C:H5'	1:1G:619:U:H5''	1.92	0.52
1:1G:1368:G:OP1	9:82:114:TYR:HB3	2.10	0.52
5:42:57:LYS:HA	5:42:60:TYR:HD2	1.74	0.52
17:8A:99:SER:OG	17:8A:100:LYS:N	2.43	0.52
26:14:14:A:H5''	26:14:15:G:OP2	2.10	0.52
26:14:329:G:O6	46:C5:19:LYS:HE3	2.10	0.52
26:14:545:G:H2'	26:14:547:A:OP2	2.10	0.52
26:14:930:U:H1'	26:14:931:G:C6	2.44	0.52
26:14:2572:A:N7	30:29:144:ARG:CD	2.71	0.52
26:14:2577:A:H5'	53:J5:3:LYS:HD2	1.92	0.52
30:29:41:LYS:HG3	30:29:42:ASP:N	2.24	0.52
36:25:47:ILE:HG23	36:25:48:PRO:HD2	1.90	0.52
36:25:97:ARG:HG2	36:25:98:VAL:N	2.23	0.52
37:35:85:LEU:HA	37:35:88:LEU:HD23	1.91	0.52
41:75:80:SER:OG	41:75:83:ILE:HG13	2.09	0.52
46:C5:61:ILE:HG22	46:C5:62:GLU:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M5:58:ILE:O	55:M5:62:LEU:HD12	2.09	0.52
1:13:119:A:C8	1:13:288:A:C2	2.97	0.52
1:13:232:G:H2'	1:13:233:C:C6	2.45	0.52
1:13:939:G:H5'	7:6E:102:ARG:CZ	2.40	0.52
1:13:1248:A:O2'	9:8E:70:LYS:NZ	2.40	0.52
2:1E:174:VAL:HG13	2:1E:184:VAL:HG11	1.91	0.52
6:5E:22:GLU:O	6:5E:26:ILE:HG13	2.10	0.52
20:BI:71:THR:HG22	20:BI:72:LEU:N	2.18	0.52
26:1H:298:G:OP1	46:G8:85:VAL:HA	2.09	0.52
26:1H:609(A):G:H2'	26:1H:610:C:C6	2.45	0.52
26:1H:1164:G:H2'	26:1H:1165:U:C6	2.45	0.52
26:1H:1606:G:H5''	26:1H:1607:C:OP1	2.10	0.52
26:1H:2212:A:H1'	26:1H:2215:G:C4	2.45	0.52
26:1H:2259:G:C2	26:1H:2282:G:N1	2.78	0.52
26:1H:2698:U:H2'	26:1H:2699:C:C6	2.44	0.52
41:B8:3:ARG:O	41:B8:4:GLY:C	2.52	0.52
50:K8:33:MET:O	50:K8:37:PHE:HD1	1.93	0.52
1:1G:868:C:H2'	1:1G:869:G:O4'	2.09	0.52
1:1G:1126:U:C4	1:1G:1281:U:C6	2.98	0.52
1:1G:1161:C:O2'	1:1G:1162:C:H5'	2.10	0.52
1:1G:1295:G:O2'	13:4A:14:ARG:NH1	2.43	0.52
4:32:158:ILE:O	4:32:159:ARG:C	2.52	0.52
6:52:83:ASP:OD1	6:52:83:ASP:N	2.42	0.52
8:72:11:THR:HG23	8:72:14:ARG:NH1	2.25	0.52
11:2A:21:ILE:HA	11:2A:30:VAL:HG12	1.90	0.52
12:3A:20:LYS:HE3	12:3A:22:SER:N	2.24	0.52
13:4A:29:ARG:HD2	13:4A:64:TRP:HH2	1.75	0.52
16:7A:21:VAL:O	16:7A:32:TYR:HB2	2.10	0.52
57:3L:42:A:H2'	57:3L:42:A:N3	2.25	0.52
26:14:748:G:O6	26:14:751:A:H5''	2.09	0.52
30:29:117:MET:HA	30:29:122:PHE:H	1.75	0.52
32:49:27:ASN:HB3	32:49:30:GLU:HG3	1.92	0.52
40:65:27:SER:HA	40:65:88:ASP:HB2	1.91	0.52
1:13:57:G:C5	1:13:58:C:C4	2.98	0.52
1:13:266:G:N2	1:13:269:C:H5	2.08	0.52
1:13:406:G:H5'	4:3E:5:ILE:HD13	1.91	0.52
1:13:876:G:H1'	8:7E:11:THR:HG21	1.91	0.52
3:2E:16:ARG:HD2	3:2E:54:ARG:NH1	2.25	0.52
3:2E:107:GLN:OE1	3:2E:107:GLN:N	2.30	0.52
13:4I:3:ARG:HD3	13:4I:7:VAL:HG13	1.91	0.52
24:3K:45:G:C8	24:3K:46:G:N7	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:3K:59:A:N7	24:3K:60:U:C4	2.78	0.52
26:1H:1196:C:O4'	26:1H:1227:A:C2	2.63	0.52
26:1H:1705:G:H2'	26:1H:1706:U:H5'	1.91	0.52
26:1H:2399:G:H1	26:1H:2417:C:N4	2.06	0.52
28:71:5:LYS:HB3	28:71:8:ARG:HH11	1.75	0.52
31:31:116:ASP:OD1	31:31:119:ARG:NH2	2.42	0.52
37:78:31:ALA:O	37:78:33:ARG:HG3	2.10	0.52
43:D8:9:GLY:O	43:D8:10:LYS:HG3	2.09	0.52
46:G8:9:LYS:HA	46:G8:27:VAL:HG23	1.92	0.52
1:1G:142:G:H2'	1:1G:143:A:H8	1.75	0.52
1:1G:427:U:H3'	1:1G:428:G:H2'	1.91	0.52
1:1G:740:U:H2'	1:1G:741:G:H8	1.75	0.52
1:1G:1057:G:N1	1:1G:1204:A:N3	2.58	0.52
1:1G:1170:A:C6	1:1G:1171:G:H1'	2.45	0.52
8:72:31:PHE:HZ	8:72:134:ILE:HD11	1.75	0.52
9:82:118:LYS:NZ	9:82:118:LYS:HB3	2.25	0.52
26:14:389:G:H8	26:14:389:G:O5'	1.93	0.52
26:14:674:G:O2'	31:39:74:ARG:HD3	2.10	0.52
26:14:1590:U:H2'	26:14:1591:G:C8	2.45	0.52
26:14:2438:U:O3'	26:14:2439:A:H3'	2.10	0.52
26:14:2720:U:N3	26:14:2873:A:H2	2.07	0.52
26:14:2723:C:O5'	26:14:2723:C:H6	1.92	0.52
27:1J:70:C:H2'	27:1J:71:C:H6	1.75	0.52
29:19:96:HIS:CD2	29:19:102:LYS:HG2	2.45	0.52
39:55:58:GLY:HA2	39:55:80:PHE:CE2	2.45	0.52
43:95:21:ARG:HH22	43:95:65:GLY:C	2.15	0.52
1:13:560:U:H4'	1:13:561:U:H5''	1.92	0.51
1:13:622:A:H3'	1:13:623:C:H6	1.75	0.51
1:13:629:G:O5'	1:13:629:G:H8	1.93	0.51
1:13:1277:C:O2'	1:13:1279:A:H1'	2.10	0.51
2:1E:72:GLY:HA2	2:1E:165:VAL:HG22	1.91	0.51
3:2E:82:GLU:HA	3:2E:85:ARG:HB3	1.92	0.51
4:3E:165:MET:SD	4:3E:168:ARG:NH1	2.83	0.51
13:4I:23:TYR:CZ	13:4I:71:ARG:HG2	2.45	0.51
26:1H:1437:C:H2'	26:1H:1438:U:H6	1.75	0.51
26:1H:1728:G:H5''	26:1H:1728:G:N3	2.24	0.51
26:1H:1936:A:C8	26:1H:1940:U:O2	2.64	0.51
26:1H:2050:C:H1'	30:21:156:MET:HE2	1.92	0.51
28:71:186:ALA:HA	28:71:189:ILE:HB	1.92	0.51
30:21:20:ALA:O	30:21:21:VAL:HG22	2.10	0.51
31:31:160:ASN:CG	31:31:163:VAL:HG23	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:97:ASP:H	32:41:100:TRP:CD1	2.28	0.51
37:78:61:ARG:HH11	37:78:61:ARG:HG3	1.75	0.51
43:D8:46:VAL:HG22	43:D8:52:VAL:HG11	1.92	0.51
47:H8:125:LEU:HG	47:H8:164:ALA:HB3	1.92	0.51
49:J8:92:LYS:HA	49:J8:95:LEU:HD12	1.92	0.51
1:1G:115:G:H1'	1:1G:116:A:N7	2.24	0.51
1:1G:176:C:OP1	20:BA:29:LYS:NZ	2.41	0.51
1:1G:475:G:H5'	1:1G:476:G:OP2	2.10	0.51
1:1G:837:G:H2'	1:1G:838:G:O4'	2.09	0.51
1:1G:841:U:O2'	1:1G:842:C:H5''	2.10	0.51
1:1G:1014:A:H2'	1:1G:1015:A:C8	2.45	0.51
1:1G:1258:G:H2'	1:1G:1259:C:C6	2.41	0.51
1:1G:1280:A:O5'	10:1A:40:LEU:HD21	2.10	0.51
1:1G:1342:C:O2'	9:82:124:GLN:HA	2.11	0.51
3:22:106:VAL:HB	3:22:109:PRO:HB3	1.92	0.51
4:32:11:LEU:O	4:32:15:GLU:HB2	2.11	0.51
4:32:19:LEU:HB2	4:32:21:LEU:CD1	2.39	0.51
4:32:119:GLN:HG3	4:32:123:HIS:CE1	2.44	0.51
7:62:111:ARG:NH2	7:62:122:HIS:HB3	2.24	0.51
9:82:119:ALA:O	9:82:120:ARG:HB2	2.10	0.51
26:14:6:A:N7	26:14:2899:G:N2	2.58	0.51
26:14:142:G:H2'	26:14:143:C:C6	2.45	0.51
26:14:2064:C:H2'	26:14:2065:C:H6	1.71	0.51
29:19:177:LEU:HD12	29:19:181:GLU:HG2	1.91	0.51
31:39:129:PHE:HA	31:39:142:TRP:NE1	2.25	0.51
40:65:34:HIS:C	40:65:97:ARG:HH22	2.18	0.51
41:75:11:GLU:N	41:75:11:GLU:CD	2.67	0.51
45:B5:12:VAL:HG12	45:B5:29:TRP:CE2	2.45	0.51
1:13:445:G:H2'	1:13:446:G:H8	1.75	0.51
1:13:625:G:H4'	16:7I:16:HIS:CB	2.40	0.51
1:13:955:U:H1'	1:13:1227:A:N6	2.26	0.51
1:13:1348:U:H3	1:13:1374:A:H2	1.57	0.51
6:5E:35:ALA:HB1	6:5E:65:VAL:HG21	1.91	0.51
26:1H:125:G:H3'	54:P8:19:ARG:HD3	1.92	0.51
26:1H:234:C:C2	26:1H:235:U:C5	2.98	0.51
26:1H:278:A:H3'	26:1H:279:C:C6	2.46	0.51
26:1H:333:G:C8	26:1H:333:G:O5'	2.64	0.51
26:1H:438:G:H2'	26:1H:439:G:H8	1.74	0.51
26:1H:543:C:N4	26:1H:550:G:H1	2.06	0.51
26:1H:749:C:H5''	61:1H:3553:HOH:O	2.09	0.51
26:1H:1529:A:C8	26:1H:1530:G:C8	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1831:G:H2'	26:1H:1832:C:C6	2.45	0.51
28:71:10:LEU:HB3	28:71:32:LEU:HD22	1.92	0.51
30:21:105:THR:HG22	30:21:106:GLY:H	1.74	0.51
31:31:116:ASP:O	31:31:120:GLU:HG3	2.09	0.51
37:78:125:VAL:O	37:78:144:GLU:HB2	2.09	0.51
39:98:10:LEU:O	39:98:11:ASN:C	2.53	0.51
50:K8:18:PRO:O	50:K8:21:LEU:HB2	2.10	0.51
1:1G:984:C:H42	1:1G:1221:G:H1	1.58	0.51
1:1G:1084:G:C5	1:1G:1085:U:C4	2.97	0.51
2:12:32:ILE:HD11	2:12:40:HIS:HB3	1.93	0.51
4:32:57:ARG:HE	4:32:205:GLU:HG2	1.73	0.51
57:3L:59:A:H3'	57:3L:60:U:O4'	2.11	0.51
26:14:686:G:H5''	54:L5:11:LYS:HE2	1.91	0.51
26:14:817:C:H3'	26:14:818:G:H8	1.74	0.51
26:14:878:A:H5''	26:14:900:A:C6	2.45	0.51
26:14:2143:C:H2'	26:14:2144:U:C4'	2.41	0.51
26:14:2306:C:H3'	26:14:2307:G:H5''	1.91	0.51
26:14:2402:C:H5'	26:14:2403:C:OP2	2.10	0.51
27:1J:102:G:H21	47:D5:73:GLN:NE2	2.08	0.51
34:69:77:LEU:HD12	34:69:78:THR:N	2.25	0.51
35:15:128:HIS:HB2	35:15:129:PRO:HD2	1.91	0.51
37:35:100:LEU:O	37:35:103:ALA:N	2.44	0.51
43:95:70:ILE:N	43:95:86:GLY:O	2.39	0.51
1:13:598:U:H4'	8:7E:94:TYR:CD2	2.45	0.51
1:13:1118:C:H42	1:13:1155:G:H1	1.59	0.51
8:7E:87:SER:CB	8:7E:93:VAL:H	2.23	0.51
22:1K:66:A:H3'	22:1K:67:C:C5'	2.40	0.51
24:3K:72:C:H5'	24:3K:73:A:OP2	2.10	0.51
26:1H:270(U):C:H2'	26:1H:270(V):G:H8	1.75	0.51
26:1H:599:G:O5'	37:78:9:ASN:ND2	2.43	0.51
26:1H:654:A:C2	26:1H:654(A):A:H3'	2.45	0.51
26:1H:1425:G:N2	26:1H:1573:G:N7	2.58	0.51
26:1H:1468:C:H2'	26:1H:1469:A:C8	2.45	0.51
26:1H:2115:G:H4'	26:1H:2166:G:H1'	1.92	0.51
26:1H:2713:A:H3'	26:1H:2714:G:H5''	1.92	0.51
46:G8:55:TYR:HE1	46:G8:61:ILE:HD11	1.75	0.51
47:H8:136:PHE:O	47:H8:137:ILE:HD12	2.10	0.51
49:J8:23:LYS:HB3	49:J8:29:GLY:HA3	1.91	0.51
55:Q8:51:ALA:HB1	55:Q8:52:LYS:CG	2.40	0.51
1:1G:96:G:C6	1:1G:97:U:C4	2.98	0.51
1:1G:1052:U:H5''	1:1G:1053:G:OP2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1263:C:H3'	1:1G:1264:C:C6	2.45	0.51
2:12:44:LEU:O	2:12:47:THR:OG1	2.25	0.51
13:4A:97:PRO:HA	13:4A:110:ARG:NE	2.24	0.51
14:5A:17:LYS:NZ	14:5A:18:VAL:HG13	2.26	0.51
16:7A:49:LEU:HD12	16:7A:50:LYS:H	1.76	0.51
23:2L:24:C:C2	23:2L:25:U:C5	2.98	0.51
26:14:829:A:H4'	61:14:3835:HOH:O	2.10	0.51
26:14:955:C:OP1	38:45:85:LYS:NZ	2.26	0.51
26:14:1762:A:N6	61:14:3583:HOH:O	2.43	0.51
26:14:1838:C:N4	26:14:1898:U:H2'	2.25	0.51
26:14:2001:A:H2'	26:14:2002:G:C8	2.45	0.51
26:14:2306:C:C2	26:14:2307:G:C2	2.98	0.51
26:14:2660:A:H8	26:14:2660:A:OP1	1.93	0.51
26:14:2844:G:N7	61:14:3564:HOH:O	2.34	0.51
30:29:46:ALA:CB	30:29:82:ARG:HA	2.40	0.51
30:29:57:LYS:HA	30:29:59:VAL:HG13	1.93	0.51
34:69:29:TYR:C	34:69:32:PRO:HD2	2.34	0.51
40:65:69:VAL:HG23	40:65:101:LEU:HD13	1.92	0.51
47:D5:7:ALA:O	47:D5:8:TYR:CG	2.63	0.51
47:D5:10:ARG:HB3	47:D5:36:LYS:HG3	1.92	0.51
50:G5:64:LEU:O	50:G5:64:LEU:HD23	2.10	0.51
1:13:43:C:HO2'	1:13:623:C:HO2'	1.54	0.51
1:13:195:A:H5'	1:13:196:A:OP2	2.10	0.51
2:1E:6:THR:CB	2:1E:221:LEU:HD21	2.41	0.51
6:5E:48:LEU:HB2	6:5E:56:PRO:O	2.10	0.51
8:7E:85:ARG:HG3	8:7E:86:ILE:O	2.11	0.51
10:1I:92:THR:HG23	10:1I:93:GLY:H	1.74	0.51
13:4I:12:ASN:ND2	13:4I:13:LYS:H	2.06	0.51
18:9I:52:PRO:O	18:9I:56:THR:HG22	2.10	0.51
22:1K:28:U:H3	22:1K:42:A:N6	2.09	0.51
26:1H:384:U:H2'	26:1H:385:C:H6	1.76	0.51
26:1H:575:A:OP2	26:1H:2055:C:N4	2.35	0.51
26:1H:1443:G:H8	26:1H:1443:G:O5'	1.92	0.51
26:1H:1448:G:H1	26:1H:1463:C:H42	1.58	0.51
26:1H:1479:G:C2	26:1H:1480:G:C4	2.99	0.51
26:1H:1598:C:O2'	26:1H:1599:C:H5'	2.10	0.51
26:1H:1790:C:H2'	26:1H:1791:A:C4	2.45	0.51
26:1H:1998:G:O2'	26:1H:1999:C:H5'	2.10	0.51
26:1H:2065:C:H2'	26:1H:2066:C:C6	2.45	0.51
26:1H:2392:A:H2	26:1H:2424:C:N4	2.01	0.51
33:51:15:VAL:HG12	33:51:29:PRO:HD2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:61:127:VAL:HG12	34:61:139:GLN:HB3	1.91	0.51
36:68:75:SER:HB2	41:B8:74:ARG:HH12	1.76	0.51
38:88:78:PRO:O	38:88:79:LEU:HB3	2.10	0.51
51:L8:26:LEU:HD21	51:L8:46:ASN:HB3	1.92	0.51
53:N8:40:LYS:HZ3	53:N8:46:CYS:C	2.17	0.51
1:1G:652:U:C5	1:1G:752:G:N3	2.79	0.51
1:1G:828:A:H2'	1:1G:829:G:O4'	2.10	0.51
1:1G:830:G:N2	1:1G:857:C:O2	2.44	0.51
1:1G:980:C:H3'	1:1G:981:U:C6	2.46	0.51
1:1G:1387:G:H2'	1:1G:1388:C:C6	2.46	0.51
2:12:61:LEU:HD11	2:12:157:ARG:HH22	1.75	0.51
2:12:71:VAL:HB	2:12:165:VAL:HG22	1.93	0.51
2:12:73:THR:HG21	2:12:97:TRP:N	2.25	0.51
4:32:88:VAL:HG22	5:42:96:PRO:HB2	1.93	0.51
5:42:42:GLY:HA2	5:42:136:MET:HE1	1.92	0.51
5:42:144:THR:OG1	5:42:147:ASP:HB2	2.10	0.51
7:62:69:VAL:HG21	7:62:104:LEU:HD11	1.91	0.51
26:14:309:G:H4'	46:C5:18:GLY:HA3	1.92	0.51
26:14:1512:G:H2'	26:14:1513:C:C6	2.46	0.51
26:14:2507:C:H2'	26:14:2508:G:O4'	2.10	0.51
27:1J:20:C:N4	27:1J:63:G:H1	2.09	0.51
30:29:65:GLY:O	30:29:68:ALA:HB2	2.10	0.51
31:39:177:ALA:HB1	31:39:178:PRO:HD2	1.92	0.51
37:35:33:ARG:O	37:35:36:LYS:NZ	2.43	0.51
40:65:5:THR:N	40:65:8:GLU:OE2	2.44	0.51
45:B5:29:TRP:CH2	45:B5:78:LYS:HE2	2.45	0.51
45:B5:49:VAL:HB	45:B5:83:VAL:HG21	1.92	0.51
1:13:128:G:H5'	17:8I:2:PRO:O	2.09	0.51
1:13:644:G:H2'	1:13:645:C:O4'	2.11	0.51
1:13:663:A:H2'	1:13:664:G:O4'	2.09	0.51
1:13:1113:C:H2'	1:13:1114:C:C6	2.44	0.51
1:13:1157:A:N6	1:13:1178:G:N3	2.59	0.51
1:13:1167:A:H8	1:13:1167:A:OP1	1.94	0.51
3:2E:14:ILE:HD12	3:2E:15:THR:H	1.75	0.51
7:6E:150:ALA:HB2	11:2I:50:TYR:OH	2.10	0.51
8:7E:118:VAL:C	8:7E:119:LEU:HD23	2.36	0.51
15:6I:35:ARG:HA	15:6I:38:ARG:HB2	1.92	0.51
20:BI:36:LEU:HD13	20:BI:39:LYS:HD3	1.92	0.51
26:1H:49:A:H4'	26:1H:50:U:H5''	1.92	0.51
26:1H:382:G:H5''	26:1H:383:U:OP2	2.09	0.51
26:1H:461:C:O2'	26:1H:462:C:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:638:G:H2'	26:1H:639:U:C6	2.45	0.51
26:1H:701:G:H2'	26:1H:702:G:H5'	1.92	0.51
26:1H:1299:G:H3'	26:1H:1639:U:O4	2.10	0.51
26:1H:1387:C:O2	26:1H:1388:G:C8	2.63	0.51
26:1H:2393:A:H2'	26:1H:2394:C:C6	2.46	0.51
29:11:68:LYS:HB3	29:11:70:TRP:CZ3	2.45	0.51
30:21:134:ILE:C	30:21:134:ILE:HD12	2.36	0.51
33:51:157:TYR:H	33:51:170:ARG:HA	1.76	0.51
42:C8:52:ARG:HA	42:C8:55:ARG:HG3	1.92	0.51
42:C8:58:ARG:HA	42:C8:61:TRP:CE3	2.46	0.51
52:M8:15:ILE:O	52:M8:33:VAL:HB	2.11	0.51
54:P8:5:TRP:NE1	54:P8:7:PRO:HG3	2.25	0.51
1:1G:411:A:H62	1:1G:413:G:N2	2.07	0.51
2:12:86:GLU:HG2	2:12:92:TYR:HE2	1.76	0.51
2:12:215:LEU:H	2:12:215:LEU:HD12	1.75	0.51
3:22:29:TYR:OH	3:22:33:LEU:CD2	2.53	0.51
4:32:13:ARG:C	4:32:15:GLU:H	2.18	0.51
7:62:102:ARG:O	7:62:106:GLN:HG2	2.10	0.51
26:14:244:A:C2	26:14:255:A:C4	2.98	0.51
26:14:2351:G:O6	55:M5:39:LYS:HG3	2.10	0.51
26:14:2579:C:C4'	30:29:134:ILE:HG12	2.41	0.51
27:1J:44:G:H1'	27:1J:47:C:H42	1.75	0.51
30:29:119:ARG:HD3	30:29:120:TRP:NE1	2.25	0.51
34:69:124:GLY:O	34:69:142:VAL:HG22	2.11	0.51
36:25:7:TYR:CZ	36:25:44:LYS:HG3	2.46	0.51
36:25:10:VAL:HG12	36:25:17:ARG:C	2.36	0.51
38:45:12:GLN:HG2	38:45:73:PRO:HD2	1.93	0.51
41:75:50:ILE:HD11	41:75:102:ILE:HD11	1.93	0.51
46:C5:48:ALA:HB3	46:C5:59:GLY:CA	2.38	0.51
1:13:119:A:N7	1:13:288:A:C2	2.78	0.51
1:13:155:C:H2'	1:13:156:G:H8	1.74	0.51
1:13:186(A):C:O2	20:BI:105:SER:HB3	2.11	0.51
1:13:1118:C:H1'	1:13:1179:A:C5	2.45	0.51
2:1E:98:LEU:HB2	2:1E:101:MET:HG3	1.93	0.51
9:8E:79:LEU:O	9:8E:83:ARG:HG3	2.11	0.51
15:6I:81:LEU:O	15:6I:85:LEU:HB2	2.11	0.51
24:3K:33:U:H2'	24:3K:34:U:O5'	2.10	0.51
26:1H:1475:G:C2	26:1H:1519:G:C2	2.98	0.51
26:1H:2060:A:OP2	31:31:71:GLY:HA2	2.10	0.51
26:1H:2154:G:O2'	26:1H:2155:G:H8	1.94	0.51
26:1H:2620:C:H2'	26:1H:2621:A:O4'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2830:G:H5''	26:1H:2830:G:H8	1.74	0.51
33:51:80:SER:O	33:51:81:GLU:CD	2.54	0.51
34:61:135:GLU:C	34:61:135:GLU:CD	2.79	0.51
45:F8:52:VAL:HG23	45:F8:82:GLN:HB3	1.92	0.51
47:H8:30:ASN:HA	47:H8:89:PHE:HE1	1.76	0.51
1:1G:254:G:N2	17:8A:16:GLN:OE1	2.42	0.51
1:1G:363:A:C6	12:3A:31:PRO:HD2	2.46	0.51
1:1G:828:A:H5''	1:1G:859:A:N1	2.26	0.51
1:1G:1127:G:H2'	1:1G:1127:G:N3	2.26	0.51
1:1G:1219:U:P	14:5A:19:ARG:HH12	2.33	0.51
1:1G:1342:C:H1'	9:82:124:GLN:HG3	1.92	0.51
2:12:95:GLN:HB2	2:12:148:TYR:HA	1.92	0.51
5:42:118:ILE:HG12	5:42:119:LEU:H	1.75	0.51
6:52:4:TYR:HB2	6:52:65:VAL:HG23	1.93	0.51
12:3A:100:ILE:CG2	12:3A:101:VAL:H	2.19	0.51
26:14:995:C:C6	42:85:57:PHE:HE2	2.28	0.51
26:14:1299:G:C5	26:14:1639:U:C5	2.98	0.51
26:14:2464:C:H2'	26:14:2465:C:O4'	2.11	0.51
27:1J:1:U:H3	27:1J:119:A:H2	1.57	0.51
30:29:35:GLN:HE21	30:29:41:LYS:NZ	2.07	0.51
30:29:55:ASN:HD22	30:29:75:VAL:HG13	1.74	0.51
38:45:26:TYR:OH	47:D5:78:LYS:HD2	2.10	0.51
1:13:919:A:O2'	1:13:920:U:H5'	2.10	0.51
2:1E:161:ALA:O	2:1E:162:ILE:HD13	2.10	0.51
7:6E:45:ASP:O	7:6E:49:ILE:HG12	2.10	0.51
22:1K:10:G:H1	22:1K:26:A:H2'	1.76	0.51
26:1H:107:C:H2'	26:1H:108:U:C6	2.45	0.51
26:1H:270(F):U:H2'	26:1H:270(G):C:C6	2.46	0.51
26:1H:612:G:O2'	26:1H:616:A:N1	2.41	0.51
26:1H:1438:U:O2'	26:1H:1439:A:H5'	2.10	0.51
26:1H:1639:U:O2'	26:1H:1640:C:H5'	2.10	0.51
26:1H:1897:G:H2'	26:1H:1898:U:O4'	2.11	0.51
26:1H:2061:G:C2	26:1H:2063:C:C4	2.99	0.51
26:1H:2266:A:H4'	26:1H:2267:A:N3	2.26	0.51
26:1H:2680:C:H5'	30:21:189:PRO:HA	1.92	0.51
38:88:58:PHE:HZ	38:88:106:VAL:HG11	1.76	0.51
38:88:103:MET:HB2	38:88:104:PHE:CD2	2.46	0.51
41:B8:27:THR:HA	41:B8:48:ILE:HA	1.93	0.51
47:H8:10:ARG:HG3	47:H8:36:LYS:HB3	1.91	0.51
47:H8:152:ALA:CB	47:H8:169:GLU:H	2.20	0.51
1:1G:56:U:H2'	1:1G:57:G:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:437:U:OP1	4:32:155:LEU:HD11	2.11	0.51
1:1G:1068:G:N7	1:1G:1094:G:C8	2.78	0.51
1:1G:1281:U:H3'	1:1G:1282:C:C5	2.45	0.51
2:12:22:LYS:HG2	2:12:24:TRP:CZ2	2.45	0.51
2:12:91:PRO:CG	2:12:154:LEU:HB2	2.38	0.51
2:12:107:THR:HG22	2:12:110:GLN:NE2	2.26	0.51
13:4A:56:LEU:HA	13:4A:59:TYR:HB3	1.92	0.51
26:14:5:A:N6	26:14:2629:A:O2'	2.37	0.51
26:14:35:G:H2'	26:14:36:G:O4'	2.11	0.51
26:14:994:C:OP1	42:85:53:ARG:NH2	2.43	0.51
26:14:1665:A:H1'	36:25:1:MET:HG2	1.91	0.51
26:14:2006:C:O2'	26:14:2823:A:N3	2.44	0.51
26:14:2137:C:N4	26:14:2155:G:H1	2.06	0.51
26:14:2292:C:P	40:65:17:ARG:HH21	2.34	0.51
26:14:2628:C:H1'	26:14:2781:A:H2'	1.92	0.51
31:39:110:LEU:CD2	31:39:181:LEU:HD12	2.40	0.51
34:69:6:LEU:HD23	34:69:34:GLY:O	2.09	0.51
38:45:134:ARG:N	38:45:135:ASP:OD1	2.44	0.51
47:D5:52:SER:C	47:D5:54:HIS:H	2.18	0.51
49:F5:8:SER:HB3	49:F5:66:HIS:CD2	2.46	0.51
1:13:825:G:O2'	8:7E:12:ARG:NH1	2.44	0.51
1:13:1305:G:OP2	1:13:1305:G:C8	2.64	0.51
1:13:1363:A:H1'	1:13:1365:G:N7	2.26	0.51
2:1E:6:THR:HA	2:1E:221:LEU:HD21	1.93	0.51
5:4E:150:ARG:CZ	5:4E:150:ARG:HB2	2.41	0.51
9:8E:95:LYS:O	9:8E:96:LEU:HD12	2.10	0.51
15:6I:6:GLU:HA	15:6I:9:GLN:HB2	1.92	0.51
17:8I:67:LYS:O	17:8I:68:ARG:HB3	2.09	0.51
26:1H:532:A:OP1	26:1H:561:G:N2	2.37	0.51
26:1H:852:G:O2'	26:1H:853:G:H5'	2.11	0.51
32:41:97:ASP:H	32:41:100:TRP:HD1	1.59	0.51
35:58:15:LEU:HD13	35:58:16:ILE:N	2.25	0.51
40:A8:43:GLU:HB2	48:I8:49:LYS:HE2	1.93	0.51
41:B8:107:ASP:O	41:B8:111:ARG:NH1	2.44	0.51
43:D8:47:VAL:HG22	43:D8:48:GLY:N	2.25	0.51
46:G8:76:CYS:HB2	46:G8:82:PRO:HG3	1.93	0.51
47:H8:137:ILE:HG21	47:H8:155:LEU:HB3	1.91	0.51
1:1G:186(A):C:H5''	20:BA:86:ARG:NH2	2.26	0.51
1:1G:261:U:N3	1:1G:264:U:OP2	2.39	0.51
1:1G:604:G:H2'	1:1G:605:U:O4'	2.11	0.51
1:1G:1167:A:H2'	1:1G:1169:A:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1238:A:N3	1:1G:1241:G:O2'	2.33	0.51
1:1G:1261:A:H61	1:1G:1274:G:H1'	1.75	0.51
1:1G:1314:C:H2'	1:1G:1315:U:C6	2.45	0.51
4:32:4:TYR:HE2	4:32:11:LEU:HD11	1.75	0.51
5:42:91:LEU:CD2	5:42:120:THR:HG22	2.41	0.51
7:62:15:ASP:OD1	7:62:16:LEU:N	2.43	0.51
12:3A:45:PRO:HD3	12:3A:51:ALA:O	2.10	0.51
16:7A:53:VAL:HG13	16:7A:79:VAL:HG13	1.93	0.51
23:2L:2:G:C2	23:2L:3:C:C5	2.99	0.51
26:14:363(B):G:C2	26:14:363(C):G:C4	2.99	0.51
26:14:660:G:H21	37:35:12:ALA:HB2	1.75	0.51
26:14:777:A:C2	26:14:778:G:C4	2.99	0.51
26:14:1219:G:H1	26:14:1230:C:H42	1.59	0.51
26:14:1716:U:H2'	26:14:1717:G:C8	2.46	0.51
27:1J:52:A:N6	40:65:33:LYS:HE2	2.26	0.51
31:39:28:ILE:O	31:39:29:ASN:C	2.49	0.51
40:65:10:ARG:NH2	40:65:91:PRO:HB2	2.24	0.51
40:65:54:LEU:C	40:65:56:LEU:H	2.18	0.51
41:75:50:ILE:HD11	41:75:102:ILE:CD1	2.41	0.51
43:95:95:LEU:HD22	43:95:97:LYS:HD3	1.92	0.51
46:C5:43:ASN:HA	46:C5:63:LYS:O	2.11	0.51
1:13:126:G:N2	1:13:235:C:O2	2.37	0.51
1:13:1250:A:O3'	9:8E:67:GLY:HA2	2.11	0.51
1:13:1367:C:H5'	10:1I:60:ARG:NH1	2.26	0.51
7:6E:22:LEU:HB3	7:6E:62:PHE:HE2	1.75	0.51
15:6I:78:TYR:CZ	15:6I:82:ILE:HD11	2.46	0.51
24:3K:33:U:H2'	24:3K:34:U:C3'	2.39	0.51
26:1H:355:G:H2'	26:1H:356:G:C8	2.46	0.51
26:1H:654(S):G:HO2'	26:1H:654(T):A:H8	1.59	0.51
26:1H:1392:A:C6	26:1H:1393:A:C6	2.98	0.51
26:1H:1468:C:H2'	26:1H:1469:A:H8	1.75	0.51
26:1H:2652:C:H2'	26:1H:2653:U:O4'	2.11	0.51
27:16:12:C:OP2	27:16:12:C:C6	2.64	0.51
27:16:44:G:C2	27:16:48:A:C2	2.98	0.51
32:41:96:ARG:HB2	32:41:96:ARG:NH1	2.23	0.51
39:98:29:LEU:N	39:98:29:LEU:CD1	2.74	0.51
44:E8:19:LEU:HB3	53:N8:25:LEU:HD11	1.91	0.51
47:H8:128:VAL:HG12	47:H8:161:VAL:HB	1.93	0.51
53:N8:16:ARG:NH1	53:N8:17:ASP:OD1	2.44	0.51
1:1G:277:C:H5'	17:8A:68:ARG:NH1	2.26	0.51
1:1G:332:G:C2	1:1G:333:G:C8	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1137:C:H1'	1:1G:1138:G:N2	2.26	0.51
1:1G:1401:G:C2	1:1G:1402:C:H1'	2.46	0.51
57:3L:30:G:H2'	57:3L:31:A:C8	2.46	0.51
26:14:19:C:H2'	26:14:20:C:H6	1.75	0.51
26:14:260:G:C6	26:14:261:G:C8	2.99	0.51
26:14:363(E):U:H5'	26:14:363(F):A:OP2	2.11	0.51
26:14:677:A:H2'	26:14:678:C:C6	2.45	0.51
26:14:1116:C:H2'	26:14:1117:G:C8	2.45	0.51
26:14:1180:C:H2'	26:14:1181:C:C6	2.46	0.51
26:14:1341:U:OP2	26:14:1394:U:O2'	2.17	0.51
26:14:2266:A:H5'	26:14:2267:A:C5	2.46	0.51
26:14:2298:A:H62	26:14:2318:G:H8	1.57	0.51
26:14:2864:G:OP1	41:75:119:LYS:HD3	2.11	0.51
26:14:2887:U:H2'	26:14:2888:C:H6	1.75	0.51
30:29:81:ILE:HG22	30:29:82:ARG:N	2.26	0.51
41:75:3:ARG:CG	41:75:6:LEU:H	2.24	0.51
46:C5:81:LYS:HG3	46:C5:99:CYS:HB2	1.91	0.51
1:13:626:U:C2	1:13:627:G:C8	2.99	0.51
1:13:804:U:H5''	1:13:805:C:OP2	2.11	0.51
1:13:807:A:H2'	1:13:808:C:C6	2.46	0.51
1:13:1118:C:OP1	9:8E:9:ARG:HD3	2.11	0.51
7:6E:23:VAL:O	7:6E:27:ILE:N	2.32	0.51
11:2I:33:THR:HA	11:2I:39:PRO:HA	1.92	0.51
22:1K:14:A:N6	22:1K:22:G:H2'	2.25	0.51
24:3K:37:A:H2'	24:3K:38:A:O4'	2.11	0.51
26:1H:7:G:O5'	26:1H:7:G:H8	1.94	0.51
26:1H:1029:A:H5''	38:88:128:LYS:HE2	1.94	0.51
26:1H:1472:A:H2'	26:1H:1473:G:O4'	2.11	0.51
26:1H:1910:G:O2'	26:1H:1911:U:H5'	2.11	0.51
26:1H:2156:G:H3'	26:1H:2157:G:N2	2.26	0.51
26:1H:2461:C:H2'	26:1H:2462:U:H6	1.76	0.51
26:1H:2599:G:N7	29:11:236:GLY:HA3	2.25	0.51
27:16:15:A:H4'	27:16:15:A:OP1	2.10	0.51
34:61:9:LEU:O	34:61:10:GLU:HG3	2.11	0.51
34:61:62:LYS:O	34:61:66:GLU:OE1	2.29	0.51
35:58:78:TYR:CD1	35:58:78:TYR:N	2.78	0.51
38:88:32:TYR:O	38:88:105:GLU:HA	2.11	0.51
39:98:117:VAL:O	39:98:118:GLU:HB2	2.09	0.51
41:B8:29:ARG:NH1	41:B8:46:GLU:OE2	2.44	0.51
41:B8:101:PHE:O	41:B8:105:LEU:HD13	2.11	0.51
54:P8:16:HIS:HB2	54:P8:44:PRO:HG2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:35:G:C2	1:1G:550:G:N3	2.79	0.51
1:1G:87:A:C5	1:1G:88:C:C4	2.99	0.51
1:1G:103:C:C4	1:1G:104:G:N7	2.79	0.51
1:1G:192:U:O4'	20:BA:103:GLY:HA2	2.11	0.51
1:1G:235:C:H5'	17:8A:70:ARG:HG2	1.92	0.51
4:32:191:ARG:NH2	4:32:194:LEU:O	2.44	0.51
26:14:273(F):C:N4	26:14:275:G:N7	2.59	0.51
26:14:481:G:P	46:C5:47:LYS:HD3	2.50	0.51
26:14:636:G:N7	37:35:113:LYS:NZ	2.51	0.51
26:14:1375:C:H2'	26:14:1376:C:H6	1.76	0.51
26:14:1753:G:O3'	41:75:96:ARG:NH1	2.44	0.51
26:14:1801:G:OP2	29:19:154:LYS:NZ	2.44	0.51
26:14:1819:A:H5''	29:19:161:THR:HG21	1.92	0.51
26:14:1992:G:C8	26:14:1992:G:O5'	2.64	0.51
26:14:2615:U:C2	53:J5:7:PRO:HA	2.46	0.51
26:14:2786:U:H4'	30:29:63:LEU:O	2.10	0.51
26:14:2850:A:C2	26:14:2851:A:C4	2.99	0.51
26:14:2861:G:H2'	26:14:2862:G:C8	2.45	0.51
32:49:129:GLY:HA2	32:49:166:ASP:HA	1.92	0.51
34:69:44:LEU:O	34:69:48:GLU:HB3	2.11	0.51
34:69:117:GLU:H	34:69:117:GLU:CD	2.19	0.51
34:69:144:VAL:O	34:69:145:VAL:HG12	2.10	0.51
43:95:79:VAL:O	43:95:80:GLN:CG	2.59	0.51
47:D5:28:MET:HE3	47:D5:69:THR:HG21	1.93	0.51
47:D5:128:VAL:HG22	47:D5:129:SER:H	1.76	0.51
49:F5:87:PRO:HA	49:F5:90:ILE:CG2	2.41	0.51
1:13:191(C):G:H2'	1:13:191(D):U:O4'	2.12	0.50
1:13:240:C:H2'	1:13:241:C:C6	2.45	0.50
1:13:306:G:H3'	61:13:1804:HOH:O	2.11	0.50
1:13:321:A:N7	1:13:328:C:C6	2.79	0.50
1:13:704:A:N3	1:13:704:A:H2'	2.25	0.50
1:13:1117:G:O3'	9:8E:104:ARG:HD3	2.11	0.50
2:1E:97:TRP:HH2	2:1E:176:GLU:OE2	1.94	0.50
3:2E:124:ILE:HG21	3:2E:196:LEU:HD12	1.93	0.50
11:2I:99:GLN:HG3	11:2I:105:VAL:HG11	1.93	0.50
17:8I:52:LYS:HE3	17:8I:55:ASP:OD1	2.11	0.50
20:BI:83:ARG:HB3	20:BI:87:LYS:NZ	2.25	0.50
23:2K:54:G:H2'	23:2K:55:5MU:C6	2.46	0.50
26:1H:51:G:H5'	26:1H:51:G:C8	2.46	0.50
26:1H:259:G:H21	26:1H:621:A:H8	1.59	0.50
26:1H:550:G:H2'	26:1H:551:G:H8	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:634:C:H2'	26:1H:635:C:C6	2.46	0.50
26:1H:2110:G:C6	26:1H:2120:G:C8	2.99	0.50
26:1H:2591:C:H2'	26:1H:2592:G:H8	1.74	0.50
26:1H:2627:G:N2	26:1H:2777:G:OP2	2.44	0.50
27:16:49:C:O5'	27:16:49:C:H6	1.94	0.50
33:51:144:VAL:O	33:51:148:ILE:HG12	2.10	0.50
38:88:64:ILE:HG12	38:88:106:VAL:HG12	1.93	0.50
38:88:109:VAL:HG22	38:88:113:GLN:OE1	2.10	0.50
1:1G:256:U:H3	1:1G:270:A:H61	1.58	0.50
1:1G:716:A:N3	11:2A:118:GLY:HA2	2.26	0.50
1:1G:757:U:O2'	1:1G:879:C:H1'	2.11	0.50
1:1G:1224:G:C2	1:1G:1322:C:H4'	2.46	0.50
2:12:178:ARG:HD3	2:12:196:LEU:O	2.12	0.50
13:4A:40:ASN:OD1	13:4A:41:PRO:HD2	2.10	0.50
26:14:1028:A:N6	26:14:1125:G:H2'	2.27	0.50
26:14:1188:U:HO2'	26:14:1189:A:H5'	1.74	0.50
26:14:2165:G:H3'	26:14:2166:G:C5'	2.40	0.50
26:14:2831:G:P	30:29:58:ARG:HH11	2.33	0.50
29:19:37:LEU:HD12	29:19:37:LEU:C	2.36	0.50
32:49:63:ILE:HG22	32:49:143:GLU:HB2	1.93	0.50
34:69:123:LEU:HA	34:69:142:VAL:HG21	1.94	0.50
36:25:13:ASN:C	36:25:15:GLY:H	2.19	0.50
38:45:37:LEU:HD11	38:45:130:LYS:HB3	1.93	0.50
40:65:7:TYR:O	40:65:11:LYS:HB2	2.11	0.50
1:13:376:G:H1	1:13:387:U:H3	1.59	0.50
1:13:555:C:H2'	1:13:556:C:C6	2.46	0.50
1:13:606:G:N2	1:13:630:G:N7	2.57	0.50
1:13:871:U:O2'	1:13:872:A:H5''	2.12	0.50
1:13:1064:G:H4'	1:13:1065:U:OP1	2.10	0.50
2:1E:189:ASP:HB3	2:1E:205:ASP:OD1	2.07	0.50
4:3E:108:LEU:HB3	4:3E:110:PHE:HD1	1.75	0.50
23:2K:44:A:C2	23:2K:45:A:C4	2.99	0.50
26:1H:354:G:H2'	26:1H:355:G:C8	2.46	0.50
26:1H:1591:G:H2'	26:1H:1592:C:H6	1.73	0.50
26:1H:1949:G:H1	26:1H:1957:C:H42	1.58	0.50
26:1H:2470:G:N2	26:1H:2480:C:O2	2.43	0.50
32:41:6:ALA:HB3	52:M8:23:GLU:HG3	1.94	0.50
34:61:77:LEU:HG	34:61:101:LEU:HD13	1.93	0.50
34:61:88:ILE:O	34:61:121:LYS:NZ	2.43	0.50
41:B8:74:ARG:HD3	41:B8:76:PHE:CZ	2.46	0.50
1:1G:292:G:H8	1:1G:292:G:O5'	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:814:A:N7	1:1G:816:A:C4	2.79	0.50
1:1G:1261:A:N1	1:1G:1274:G:O2'	2.44	0.50
1:1G:1362:C:H2'	1:1G:1362(A):C:H5''	1.93	0.50
4:32:25:ARG:HH21	4:32:30:LYS:HB2	1.76	0.50
6:52:7:ASN:HD21	18:9A:34:TYR:HE1	1.57	0.50
6:52:24:GLU:HB3	6:52:28:ARG:NH1	2.26	0.50
26:14:94:G:N3	50:G5:47:ASN:ND2	2.60	0.50
26:14:274:G:H2'	26:14:275:G:O4'	2.10	0.50
26:14:1490:A:O2'	26:14:1491:G:O5'	2.27	0.50
26:14:2621:A:P	30:29:119:ARG:HH22	2.35	0.50
43:95:75:PHE:CE2	43:95:81:TYR:CE1	3.00	0.50
45:B5:67:GLY:C	45:B5:69:TYR:H	2.19	0.50
54:L5:34:ARG:HH11	54:L5:39:ARG:HG3	1.76	0.50
1:13:4:U:O2'	1:13:5:U:OP1	2.25	0.50
1:13:672:U:H2'	1:13:673:G:C8	2.47	0.50
1:13:746:A:C5	1:13:747:C:C5	3.00	0.50
13:4I:65:LYS:O	13:4I:66:LEU:HD23	2.10	0.50
16:7I:58:TYR:O	16:7I:62:VAL:HG22	2.11	0.50
26:1H:34:C:HO2'	26:1H:35:G:P	2.35	0.50
26:1H:67:U:H2'	26:1H:68:G:H8	1.75	0.50
26:1H:1385:G:O2'	26:1H:1396:U:C6	2.63	0.50
26:1H:1389:G:C2	26:1H:1399:C:O2	2.65	0.50
26:1H:1919:A:H5''	26:1H:1920:C:OP2	2.11	0.50
26:1H:2070:G:C2	26:1H:2442:C:C2	2.99	0.50
26:1H:2590:A:H2'	26:1H:2591:C:C6	2.46	0.50
26:1H:2615:U:H2'	26:1H:2616:C:H6	1.76	0.50
27:16:15:A:H1'	27:16:109:G:N9	2.26	0.50
28:7I:22:ILE:O	28:7I:26:ALA:N	2.44	0.50
31:31:29:ASN:H	31:31:112:MET:CE	2.23	0.50
32:41:94:LEU:HA	32:41:98:ARG:NH1	2.26	0.50
35:58:94:HIS:C	35:58:95:PRO:O	2.54	0.50
40:A8:67:ARG:O	40:A8:71:ARG:HG3	2.11	0.50
41:B8:50:ILE:HG13	41:B8:102:ILE:HD11	1.93	0.50
43:D8:76:LYS:HB2	43:D8:81:TYR:HD1	1.76	0.50
45:F8:8:ILE:CD1	45:F8:43:VAL:HG22	2.41	0.50
46:G8:87:LYS:HD2	46:G8:89:PHE:HD2	1.76	0.50
52:M8:43:TYR:CE2	52:M8:44:THR:HG23	2.46	0.50
55:Q8:37:SER:C	55:Q8:39:LYS:N	2.68	0.50
1:1G:825:G:H1	1:1G:875:C:H42	1.58	0.50
1:1G:998(A):C:H1'	1:1G:1042:G:N1	2.27	0.50
1:1G:1081:G:N7	5:42:47:LYS:NZ	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1281:U:H3'	1:1G:1282:C:H5	1.76	0.50
1:1G:1452:C:C6	1:1G:1452:C:OP1	2.65	0.50
5:42:103:GLY:C	5:42:106:PRO:HD2	2.36	0.50
13:4A:52:GLU:HA	13:4A:55:ARG:HH21	1.76	0.50
20:BA:14:LYS:HG3	20:BA:17:ARG:NH2	2.26	0.50
21:1B:9:ARG:HG3	21:1B:10:ARG:N	2.25	0.50
26:14:929:G:C8	26:14:929:G:H3'	2.46	0.50
26:14:1657:C:H2'	26:14:1658:C:C6	2.46	0.50
26:14:2260:C:O2'	26:14:2261:C:H5'	2.11	0.50
26:14:2295:C:H5	40:65:13:ARG:NH2	2.08	0.50
26:14:2615:U:H2'	26:14:2616:C:H6	1.77	0.50
26:14:2773:C:OP1	30:29:166:THR:OG1	2.29	0.50
26:14:2849:U:H1'	26:14:2866:U:O2	2.10	0.50
32:49:106:LEU:O	32:49:110:ALA:HB3	2.11	0.50
47:D5:55:HIS:HD1	47:D5:56:VAL:H	1.57	0.50
1:13:592:G:H2'	1:13:593:G:H8	1.76	0.50
1:13:983:A:C2	1:13:984:C:C6	2.99	0.50
2:1E:27:LYS:HZ1	2:1E:195:ASP:HB2	1.77	0.50
2:1E:59:GLU:HB2	2:1E:221:LEU:HD12	1.92	0.50
5:4E:110:LEU:HD13	5:4E:118:ILE:HG21	1.92	0.50
8:7E:87:SER:HB2	8:7E:93:VAL:CG2	2.42	0.50
19:AI:41:VAL:HA	19:AI:44:MET:H	1.77	0.50
24:3K:59:A:H5''	24:3K:60:U:H6	1.75	0.50
26:1H:207:A:H2'	26:1H:208:C:O4'	2.12	0.50
26:1H:426:C:H2'	26:1H:427:U:C6	2.46	0.50
26:1H:1344:G:H4'	26:1H:1384:A:C5	2.46	0.50
26:1H:1388:G:H2'	26:1H:1389:G:H8	1.76	0.50
26:1H:1420:U:HO2'	26:1H:1421:G:P	2.34	0.50
26:1H:1564:C:O2'	26:1H:1565:C:H5'	2.11	0.50
31:31:78:ILE:HA	31:31:83:PHE:CD2	2.46	0.50
31:31:196:LEU:O	31:31:200:GLU:HB2	2.11	0.50
35:58:128:HIS:HB2	35:58:129:PRO:HD2	1.94	0.50
37:78:122:PRO:HA	37:78:142:GLY:HA3	1.94	0.50
38:88:54:MET:O	38:88:57:HIS:N	2.44	0.50
40:A8:39:ILE:O	40:A8:39:ILE:HG22	2.12	0.50
1:1G:35:G:C2	1:1G:550:G:C2	2.99	0.50
1:1G:243:A:H4'	1:1G:244:U:C5'	2.39	0.50
1:1G:294:U:OP1	1:1G:610:G:O2'	2.19	0.50
1:1G:303:A:H2'	1:1G:304:U:O4'	2.11	0.50
1:1G:373:A:N3	1:1G:374:A:C8	2.78	0.50
1:1G:409:G:C2	1:1G:410:G:H1'	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:740:U:OP2	15:6A:2:PRO:HA	2.12	0.50
1:1G:904:C:C4	1:1G:905:U:C5	2.99	0.50
1:1G:1010:G:N2	1:1G:1019:C:O2	2.28	0.50
1:1G:1088:G:H2'	1:1G:1089:G:O4'	2.11	0.50
2:12:18:GLY:C	2:12:19:HIS:HD1	2.17	0.50
3:22:55:VAL:HG22	3:22:68:VAL:HG13	1.94	0.50
3:22:88:ARG:HB3	3:22:101:LEU:HD12	1.93	0.50
4:32:173:TRP:CD1	4:32:174:LEU:HG	2.46	0.50
5:42:141:GLN:HA	5:42:143:ARG:NH2	2.27	0.50
7:62:62:PHE:HA	7:62:124:LEU:HD22	1.92	0.50
12:3A:117:ARG:NH2	12:3A:124:LYS:HB2	2.26	0.50
13:4A:66:LEU:CA	13:4A:70:LEU:HB2	2.42	0.50
13:4A:86:CYS:O	13:4A:89:GLY:N	2.29	0.50
26:14:6:A:H2'	26:14:6:A:N3	2.26	0.50
26:14:239:U:H2'	26:14:240:G:O4'	2.11	0.50
26:14:459:U:H4'	54:L5:40:TRP:CZ3	2.47	0.50
26:14:929:G:H8	26:14:929:G:O5'	1.94	0.50
26:14:2184:G:H2'	26:14:2185:C:C6	2.46	0.50
26:14:2305:A:C2	26:14:2306:C:H1'	2.47	0.50
30:29:60:ASN:OD1	30:29:61:ARG:N	2.44	0.50
31:39:83:PHE:C	31:39:85:GLY:H	2.19	0.50
31:39:182:ASN:HD21	31:39:185:ASP:CG	2.19	0.50
34:69:6:LEU:H	34:69:36:ALA:HA	1.75	0.50
34:69:69:LYS:HG2	34:69:136:VAL:HB	1.94	0.50
36:25:24:VAL:HA	36:25:39:ILE:HG22	1.92	0.50
37:35:52:GLU:CD	37:35:52:GLU:H	2.15	0.50
40:65:85:VAL:H	40:65:110:LEU:HA	1.77	0.50
41:75:24:PRO:HA	41:75:49:VAL:HG23	1.93	0.50
41:75:27:THR:HG23	41:75:89:VAL:HG13	1.93	0.50
54:L5:19:ARG:HG2	54:L5:19:ARG:HH11	1.77	0.50
1:13:606:G:H5''	1:13:607:A:H5'	1.92	0.50
1:13:640:A:O2'	8:7E:116:LYS:NZ	2.40	0.50
1:13:1266:G:N2	1:13:1269:A:OP2	2.44	0.50
1:13:1449:C:H42	1:13:1454:G:H1	1.57	0.50
13:4I:7:VAL:H	32:4I:115:ARG:HH12	1.60	0.50
24:3K:6:G:H1'	24:3K:68:G:N2	2.26	0.50
24:3K:10:G:O6	24:3K:25:C:N4	2.26	0.50
26:1H:270(U):C:H2'	26:1H:270(V):G:C8	2.47	0.50
26:1H:320:A:P	31:31:135:LYS:HZ1	2.27	0.50
26:1H:455:C:N3	26:1H:473:G:H5'	2.26	0.50
26:1H:775:G:C4	26:1H:794:G:C8	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:916:G:H2'	26:1H:917:A:H5''	1.93	0.50
26:1H:1025:G:C4	26:1H:1135:C:H1'	2.46	0.50
26:1H:2684:U:H1'	36:68:70:LYS:HE2	1.91	0.50
26:1H:2690:C:H5''	26:1H:2872:G:H21	1.76	0.50
28:71:15:ASP:OD1	28:71:17:ASN:ND2	2.45	0.50
29:11:242:ARG:O	29:11:244:ARG:HG2	2.11	0.50
30:21:16:ARG:HH21	30:21:173:VAL:HG13	1.77	0.50
30:21:23:VAL:HA	30:21:184:VAL:O	2.12	0.50
31:31:32:LEU:HD21	31:31:105:VAL:HG13	1.93	0.50
32:41:109:VAL:HG21	52:M8:14:ILE:HD13	1.93	0.50
32:41:179:PRO:HG3	52:M8:38:LYS:HZ3	1.75	0.50
33:51:6:ARG:HA	33:51:66:GLY:HA2	1.92	0.50
49:J8:78:LYS:HD3	49:J8:78:LYS:N	2.25	0.50
53:N8:40:LYS:NZ	53:N8:46:CYS:HB2	2.26	0.50
1:1G:517:G:H1	1:1G:533:A:P	2.35	0.50
1:1G:578:C:H42	1:1G:763:G:H1	1.60	0.50
1:1G:1064:G:OP2	1:1G:1386:G:H4'	2.12	0.50
1:1G:1141:C:H2'	1:1G:1142:G:C8	2.46	0.50
2:12:187:LEU:HD13	2:12:204:ASN:H	1.77	0.50
3:22:47:LEU:HB3	3:22:52:LEU:HD13	1.94	0.50
4:32:163:GLU:O	4:32:166:LYS:HB2	2.12	0.50
5:42:83:GLU:HA	5:42:88:LYS:HA	1.93	0.50
5:42:99:GLY:O	5:42:117:ASP:HA	2.12	0.50
12:3A:28:LYS:HD2	12:3A:33:ARG:NH1	2.26	0.50
13:4A:58:GLU:O	13:4A:62:ASN:HB2	2.12	0.50
14:5A:21:TYR:HE2	14:5A:23:ARG:HE	1.58	0.50
20:BA:50:GLU:N	20:BA:100:ILE:HG12	2.26	0.50
23:2L:76:C:H2'	23:2L:77:A:C8	2.47	0.50
26:14:353:G:H2'	26:14:354:G:C8	2.47	0.50
26:14:860:U:H1'	26:14:2268:A:H5'	1.93	0.50
26:14:978:G:H5''	26:14:979:G:OP2	2.11	0.50
26:14:1437:C:H2'	26:14:1438:U:H6	1.77	0.50
26:14:1568:G:OP1	29:19:63:ARG:NH1	2.34	0.50
26:14:2025:C:H2'	26:14:2026:C:C6	2.47	0.50
29:19:12:SER:O	29:19:16:MET:HB2	2.12	0.50
30:29:11:MET:HE1	30:29:187:ALA:H	1.75	0.50
32:49:96:ARG:C	32:49:98:ARG:H	2.19	0.50
34:69:50:ARG:O	34:69:54:GLN:NE2	2.43	0.50
39:55:33:ARG:HA	39:55:115:GLU:HA	1.93	0.50
40:65:23:ARG:NH2	40:65:84:GLN:HB3	2.26	0.50
42:85:76:TYR:O	42:85:80:ILE:HG12	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:A5:50:VAL:HG22	44:A5:105:VAL:HG23	1.93	0.50
1:13:604:G:C6	1:13:605:U:N3	2.80	0.50
1:13:652:U:C4	1:13:752:G:N3	2.79	0.50
1:13:1080:A:H5'	5:4E:14:ARG:NH2	2.27	0.50
1:13:1410:G:C4	1:13:1491:G:N2	2.80	0.50
2:1E:105:PHE:HZ	2:1E:156:LYS:HA	1.76	0.50
4:3E:52:SER:O	4:3E:56:VAL:HG23	2.12	0.50
6:5E:95:GLU:OE2	6:5E:95:GLU:N	2.36	0.50
11:2I:78:GLN:O	11:2I:103:LEU:HA	2.12	0.50
16:7I:9:PHE:CE1	16:7I:18:ARG:HG3	2.47	0.50
20:BI:26:ASN:HB2	20:BI:71:THR:OG1	2.12	0.50
20:BI:49:ALA:HB3	20:BI:99:LEU:HD22	1.93	0.50
26:1H:356:G:H2'	26:1H:357:A:H8	1.77	0.50
26:1H:1142(A):A:C4	26:1H:1144:G:C8	2.99	0.50
26:1H:1171:G:C8	26:1H:1174:A:N1	2.80	0.50
26:1H:1652:A:OP1	39:98:8:ARG:NH1	2.45	0.50
26:1H:1952:A:C6	36:68:22:ILE:HG23	2.47	0.50
26:1H:2243:U:O2'	26:1H:2244:U:H5'	2.11	0.50
26:1H:2564:A:C2	26:1H:2647:U:H4'	2.47	0.50
26:1H:2862:G:H2'	26:1H:2863:C:H6	1.76	0.50
31:31:153:SER:HB2	31:31:190:GLU:H	1.75	0.50
34:61:26:ALA:HA	34:61:30:LEU:HB2	1.93	0.50
35:58:103:VAL:O	35:58:106:MET:N	2.45	0.50
36:68:49:ARG:C	36:68:53:LYS:HZ3	2.20	0.50
36:68:76:ALA:HB3	41:B8:75:ILE:HB	1.92	0.50
42:C8:69:CYS:SG	42:C8:79:PHE:HD2	2.34	0.50
47:H8:85:HIS:HE1	47:H8:87:ASP:OD1	1.93	0.50
53:N8:40:LYS:HZ3	53:N8:47:PRO:N	2.10	0.50
1:1G:15:G:C5	1:1G:1396:A:C2	3.00	0.50
1:1G:448:A:OP2	1:1G:485:G:N2	2.39	0.50
1:1G:450:G:N7	1:1G:481:G:C6	2.80	0.50
1:1G:740:U:H2'	1:1G:741:G:C8	2.46	0.50
1:1G:882:C:H2'	1:1G:883:C:H6	1.76	0.50
1:1G:1129:C:OP1	1:1G:1130:A:H8	1.94	0.50
2:12:126:GLU:HA	2:12:128:GLU:HB2	1.94	0.50
4:32:100:ARG:NH1	4:32:102:ASP:OD2	2.43	0.50
26:14:176:G:C2'	26:14:177:G:H5'	2.41	0.50
26:14:919:G:H2'	26:14:920:G:H8	1.75	0.50
26:14:1453:A:O2'	26:14:1454:U:H2'	2.11	0.50
26:14:1519:G:C6	26:14:1520:U:C4	3.00	0.50
26:14:1542:G:H3'	26:14:1543:A:H5''	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1667:G:H8	26:14:1667:G:OP2	1.94	0.50
26:14:1826:G:H2'	26:14:1827:C:H6	1.74	0.50
26:14:2074:U:H2'	26:14:2075:U:C6	2.47	0.50
26:14:2682:U:H5'	30:29:11:MET:HB3	1.92	0.50
26:14:2832:U:H3'	26:14:2833:G:H8	1.77	0.50
27:1J:39:A:C2'	27:1J:40:U:H5'	2.42	0.50
27:1J:115:G:H8	27:1J:115:G:OP2	1.95	0.50
30:29:90:THR:HG23	30:29:90:THR:O	2.12	0.50
45:B5:84:ALA:O	45:B5:87:GLN:HG3	2.11	0.50
46:C5:14:LEU:HD23	46:C5:15:VAL:N	2.27	0.50
47:D5:53:ILE:HA	47:D5:70:LEU:HD22	1.94	0.50
1:13:766:A:OP2	61:13:1814:HOH:O	2.20	0.50
1:13:1176:A:N6	1:13:1177:G:N7	2.59	0.50
1:13:1291:G:O3'	9:8E:39:GLY:HA3	2.11	0.50
1:13:1469:G:H2'	1:13:1470:G:H8	1.74	0.50
26:1H:244:A:H4'	37:78:74:GLU:HB2	1.94	0.50
26:1H:690:G:O2'	29:11:43:ARG:NH2	2.45	0.50
26:1H:782:A:H5'	26:1H:783:A:C2	2.47	0.50
26:1H:862:G:H5'	27:16:79:C:H4'	1.94	0.50
26:1H:1392:A:N6	26:1H:1393:A:N6	2.60	0.50
26:1H:1488:G:C5	26:1H:1489:U:C5	3.00	0.50
27:16:24:G:N7	27:16:56:G:H2'	2.27	0.50
27:16:33:G:O2'	27:16:34:U:H5'	2.11	0.50
28:71:190:ARG:NH2	28:71:228:SER:OXT	2.37	0.50
33:51:54:ARG:HE	33:51:57:ASP:HA	1.77	0.50
39:98:30:THR:OG1	39:98:75:LEU:HD12	2.12	0.50
39:98:37:THR:HA	39:98:111:LEU:HA	1.93	0.50
42:C8:95:LEU:HD22	43:D8:4:ILE:HG12	1.94	0.50
48:I8:36:ILE:C	48:I8:36:ILE:HD12	2.36	0.50
1:1G:1004:A:C2	1:1G:1024:G:H8	2.30	0.50
5:42:92:LYS:HG2	5:42:93:PRO:HD2	1.94	0.50
7:62:101:LEU:O	7:62:105:VAL:HG23	2.11	0.50
9:82:48:GLU:HA	9:82:51:ARG:HG3	1.93	0.50
13:4A:91:ARG:HD2	13:4A:96:LEU:HB3	1.94	0.50
15:6A:33:THR:HG21	15:6A:85:LEU:HD22	1.94	0.50
26:14:1475:G:C2	26:14:1476:C:C2	3.00	0.50
26:14:2302:G:H2'	26:14:2303:G:O4'	2.11	0.50
26:14:2647:U:O2	26:14:2673:G:N2	2.41	0.50
31:39:141:ALA:O	31:39:144:LYS:N	2.38	0.50
34:69:130:TYR:C	34:69:131:LYS:HD2	2.36	0.50
36:25:13:ASN:C	36:25:15:GLY:N	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:65:7:TYR:CE1	40:65:91:PRO:HG3	2.46	0.50
1:13:620:C:H5''	61:13:1859:HOH:O	2.10	0.50
1:13:859:A:H2'	1:13:860:A:O4'	2.11	0.50
2:1E:21:ARG:HG2	2:1E:38:GLY:O	2.12	0.50
19:AI:41:VAL:HG23	19:AI:42:PRO:HA	1.94	0.50
26:1H:14:A:C8	26:1H:15:G:C8	3.00	0.50
26:1H:415:A:H2'	26:1H:416:C:O4'	2.11	0.50
26:1H:773:U:C4'	29:11:47:GLY:HA3	2.41	0.50
26:1H:782:A:C6	29:11:226:MET:HE2	2.47	0.50
26:1H:1210:A:OP1	26:1H:1211:U:O2'	2.18	0.50
26:1H:1471:A:OP2	26:1H:1521:G:N1	2.28	0.50
26:1H:1556:C:H2'	26:1H:1557:C:C6	2.46	0.50
26:1H:1627:G:H2'	26:1H:1628:G:H5'	1.94	0.50
26:1H:2048:G:C2	26:1H:2621:A:C2	2.99	0.50
26:1H:2695:C:H2'	26:1H:2696:U:C6	2.46	0.50
28:71:66:HIS:CE1	28:71:184:LYS:HD2	2.47	0.50
30:21:17:ASP:C	30:21:19:ARG:H	2.19	0.50
36:68:104:ARG:HH22	41:B8:43:GLN:NE2	2.08	0.50
49:J8:71:TYR:O	49:J8:74:VAL:HG12	2.11	0.50
52:M8:46:GLN:HA	52:M8:47:GLN:OE1	2.11	0.50
1:1G:79:G:H1	1:1G:90:C:H42	1.58	0.50
1:1G:532:A:N1	3:22:156:ARG:NH1	2.60	0.50
1:1G:580:U:H2'	1:1G:581:G:O4'	2.12	0.50
1:1G:827:U:O5'	1:1G:827:U:H6	1.95	0.50
1:1G:876:G:H1'	8:72:11:THR:HG21	1.93	0.50
1:1G:1145:C:H5''	1:1G:1146:A:OP1	2.10	0.50
1:1G:1194:U:H4'	5:42:22:GLY:O	2.12	0.50
1:1G:1206:G:H4'	3:22:192:THR:O	2.12	0.50
3:22:180:ALA:O	3:22:181:ASN:HB3	2.12	0.50
6:52:72:VAL:HG13	6:52:73:ASN:N	2.27	0.50
11:2A:59:TYR:CZ	11:2A:63:LEU:HD21	2.46	0.50
16:7A:5:ARG:HE	16:7A:22:THR:HG21	1.76	0.50
56:1L:22:G:N7	56:1L:48:C:N4	2.59	0.50
26:14:49:A:H5''	26:14:51:G:O4'	2.11	0.50
26:14:792:G:O2'	26:14:2440:C:N3	2.38	0.50
26:14:2469:A:O2'	38:45:56:ARG:HG2	2.12	0.50
32:49:15:VAL:CG1	32:49:175:LEU:HB3	2.39	0.50
34:69:2:LYS:HA	34:69:20:ASP:HA	1.94	0.50
44:A5:78:GLU:OE1	44:A5:99:ARG:HD3	2.11	0.50
46:C5:36:ALA:HB1	46:C5:66:PRO:HB3	1.93	0.50
46:C5:82:PRO:CB	46:C5:97:ARG:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1304:G:N2	1:13:1332:A:OP2	2.43	0.50
1:13:1309:G:OP2	13:4I:99:ARG:NE	2.45	0.50
6:5E:15:ASP:OD1	6:5E:17:SER:N	2.45	0.50
24:3K:61:C:H1'	28:71:52:ARG:NH1	2.19	0.50
26:1H:444:C:OP1	31:31:45:ARG:NH2	2.45	0.50
26:1H:2053:G:OP1	30:21:144:ARG:HG2	2.12	0.50
26:1H:2341:G:H2'	26:1H:2342:C:C6	2.47	0.50
29:11:30:GLU:CD	29:11:63:ARG:HE	2.15	0.50
32:41:106:LEU:HD12	32:41:110:ALA:HB3	1.93	0.50
33:51:107:VAL:HB	33:51:152:ARG:HG3	1.93	0.50
49:J8:60:PHE:HE2	49:J8:91:LYS:NZ	2.10	0.50
1:1G:339:C:H2'	1:1G:340:U:H6	1.77	0.50
1:1G:456:C:N4	1:1G:476:G:H1	2.09	0.50
1:1G:457:C:H2'	1:1G:458:C:C6	2.47	0.50
1:1G:1255:G:O3'	1:1G:1258:G:H1'	2.12	0.50
7:62:64:GLN:NE2	7:62:128:ALA:O	2.32	0.50
13:4A:11:ARG:HG3	13:4A:12:ASN:N	2.27	0.50
20:BA:69:GLY:O	20:BA:73:HIS:CD2	2.64	0.50
26:14:648:G:O2'	26:14:2351:G:OP1	2.23	0.50
26:14:2019:A:OP2	53:J5:9:LYS:NZ	2.45	0.50
26:14:2068:U:C4	26:14:2430:A:H2	2.29	0.50
26:14:2547:U:O2	36:25:23:ARG:NH2	2.42	0.50
26:14:2758:A:C2	26:14:2759:G:H1'	2.46	0.50
26:14:2861:G:H2'	26:14:2862:G:H8	1.77	0.50
37:35:92:GLU:HG2	37:35:123:LEU:HD21	1.94	0.50
39:55:24:GLN:HB3	39:55:44:LEU:HD11	1.93	0.50
47:D5:44:PHE:CZ	47:D5:86:VAL:HG21	2.47	0.50
51:H5:6:VAL:O	51:H5:34:GLU:HA	2.12	0.50
1:13:21:G:OP1	61:13:1813:HOH:O	2.20	0.49
1:13:793:U:H5'	1:13:794:A:H5''	1.93	0.49
2:1E:215:LEU:H	2:1E:215:LEU:HD22	1.76	0.49
11:2I:32:ILE:HD12	11:2I:72:ALA:HB2	1.94	0.49
22:1K:44:U:H3'	22:1K:48:C:H41	1.76	0.49
26:1H:270(N):G:H5'	26:1H:270(O):U:O4	2.11	0.49
26:1H:574:C:N3	30:21:145:LYS:HE3	2.26	0.49
26:1H:1022:G:N2	26:1H:1023:U:O4	2.40	0.49
26:1H:1262:A:N3	53:N8:10:LYS:HE3	2.27	0.49
26:1H:1643:G:C6	26:1H:1644:C:C4	3.00	0.49
31:31:182:ASN:ND2	31:31:185:ASP:OD2	2.32	0.49
32:41:174:GLU:O	32:41:177:GLY:N	2.38	0.49
33:51:11:VAL:HG23	33:51:76:VAL:HG11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:61:102:SER:O	34:61:106:GLY:HA2	2.11	0.49
37:78:63:PRO:HB3	55:Q8:30:ARG:HE	1.77	0.49
37:78:91:PHE:N	37:78:91:PHE:CD1	2.80	0.49
38:88:2:LEU:H	38:88:2:LEU:HD12	1.77	0.49
1:1G:1003:G:N2	1:1G:1037:C:O2	2.34	0.49
1:1G:1306:A:C6	1:1G:1307:U:C2	3.00	0.49
2:12:72:GLY:O	2:12:78:GLN:HA	2.11	0.49
3:22:120:VAL:HA	3:22:123:GLN:HG3	1.94	0.49
18:9A:62:GLU:O	18:9A:66:LEU:N	2.42	0.49
26:14:71:A:H3'	26:14:71:A:P	2.51	0.49
26:14:360:G:H8	26:14:360:G:OP2	1.94	0.49
26:14:528:A:C2	26:14:2043:C:H4'	2.47	0.49
26:14:819:A:C4	26:14:1189:A:C2	3.00	0.49
26:14:944:G:H5''	26:14:945:A:O5'	2.11	0.49
26:14:1222:C:C2	26:14:1229(A):G:C2	3.00	0.49
26:14:1424:G:OP1	29:19:33:LEU:HD12	2.12	0.49
26:14:2115:G:C2	26:14:2116:G:N7	2.80	0.49
26:14:2115:G:O2'	26:14:2171:A:N6	2.45	0.49
26:14:2185:C:H2'	26:14:2186:G:C8	2.47	0.49
26:14:2513:G:O2'	30:29:151:TYR:HE2	1.95	0.49
26:14:2655:G:N2	26:14:2665:A:OP2	2.44	0.49
26:14:2820:A:C6	39:55:4:LEU:HD11	2.47	0.49
30:29:34:VAL:CG1	30:29:64:LYS:HE3	2.42	0.49
32:49:97:ASP:H	32:49:100:TRP:CD1	2.29	0.49
34:69:77:LEU:HA	34:69:141:LYS:H	1.77	0.49
35:15:121:LYS:HB3	35:15:123:TYR:CE2	2.46	0.49
37:35:63:PRO:CG	55:M5:25:MET:HB3	2.42	0.49
47:D5:40:ASP:OD1	47:D5:43:GLU:HG2	2.12	0.49
50:G5:24:LEU:HD23	50:G5:24:LEU:O	2.11	0.49
51:H5:39:ASP:O	51:H5:44:ARG:NH1	2.45	0.49
1:13:659:U:H2'	1:13:660:G:H8	1.75	0.49
1:13:805:C:O2'	1:13:806:C:H5'	2.12	0.49
1:13:1333:A:H2'	1:13:1334:G:O4'	2.11	0.49
1:13:1464:G:H2'	1:13:1465:C:C6	2.47	0.49
16:7I:53:VAL:HG13	16:7I:79:VAL:HG22	1.94	0.49
20:BI:64:ASP:HA	20:BI:67:ALA:HB3	1.93	0.49
23:2K:69:C:H2'	23:2K:70:C:C6	2.46	0.49
26:1H:654(N):G:N7	26:1H:654(P):G:N2	2.59	0.49
26:1H:1491:G:H2'	26:1H:1492:G:C8	2.47	0.49
26:1H:1621:U:O4	61:1H:3555:HOH:O	2.19	0.49
26:1H:2358:G:C5	26:1H:2359:C:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:A8:35:ILE:HD11	40:A8:101:LEU:HD23	1.94	0.49
40:A8:58:LEU:HD23	40:A8:58:LEU:H	1.76	0.49
46:G8:29:GLU:HB3	46:G8:38:ILE:HG22	1.94	0.49
49:J8:72:GLU:O	49:J8:76:ARG:HG2	2.13	0.49
52:M8:13:ARG:HA	52:M8:24:THR:HG21	1.93	0.49
1:1G:233:C:H2'	1:1G:234:C:C6	2.47	0.49
1:1G:1149:C:H2'	1:1G:1150:U:O4'	2.11	0.49
1:1G:1326:C:H2'	1:1G:1327:C:H6	1.76	0.49
1:1G:1365:G:H2'	1:1G:1366:C:H6	1.76	0.49
6:52:22:GLU:O	6:52:26:ILE:HG13	2.12	0.49
6:52:97:PHE:HB2	18:9A:32:ARG:HG3	1.94	0.49
14:5A:45:ARG:O	14:5A:49:HIS:NE2	2.46	0.49
16:7A:74:LEU:HD13	16:7A:79:VAL:HG21	1.94	0.49
19:AA:22:LEU:O	19:AA:22:LEU:HD13	2.12	0.49
26:14:81:G:N2	26:14:105:C:O2	2.43	0.49
26:14:323:G:HO2'	26:14:1205:U:H3	1.53	0.49
26:14:603:A:H8	26:14:604:G:H1'	1.75	0.49
26:14:734:A:O2'	26:14:1635:G:H5'	2.11	0.49
26:14:993:G:H1'	43:95:89:GLN:NE2	2.27	0.49
26:14:1231:G:H8	26:14:1231:G:O5'	1.95	0.49
26:14:1520:U:H2'	26:14:1521:G:O4'	2.12	0.49
26:14:2104:G:H2'	26:14:2105:C:C6	2.47	0.49
26:14:2716:U:H2'	26:14:2717:G:H8	1.76	0.49
26:14:2785:C:H2'	26:14:2786:U:O4'	2.12	0.49
48:E5:44:ARG:O	48:E5:45:PHE:CD1	2.65	0.49
51:H5:10:LYS:NZ	51:H5:15:TYR:OH	2.37	0.49
1:13:540:G:H2'	1:13:541:G:O4'	2.11	0.49
1:13:590:C:OP1	8:7E:30:ARG:N	2.32	0.49
1:13:882:C:O2'	1:13:883:C:H5'	2.12	0.49
1:13:909:A:O5'	1:13:909:A:H8	1.95	0.49
1:13:1299:A:H2'	1:13:1301:U:C6	2.46	0.49
1:13:1329:A:N7	21:1F:7:ARG:NH2	2.60	0.49
2:1E:94:ASN:OD1	2:1E:95:GLN:N	2.43	0.49
7:6E:16:LEU:HD11	9:8E:42:ARG:CA	2.39	0.49
16:7I:38:TYR:CE2	16:7I:50:LYS:HD2	2.47	0.49
17:8I:52:LYS:HG2	17:8I:55:ASP:OD1	2.13	0.49
22:1K:8:U:H2'	22:1K:22:G:O6	2.13	0.49
22:1K:15:G:N7	22:1K:59:A:O2'	2.39	0.49
23:2K:63:C:H2'	23:2K:64:G:C8	2.47	0.49
26:1H:217:G:H2'	26:1H:218:A:C8	2.47	0.49
26:1H:581:C:OP1	42:C8:33:ARG:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:651:G:H4'	55:Q8:18:ALA:HB3	1.94	0.49
26:1H:724:U:H2'	26:1H:725:G:O4'	2.12	0.49
26:1H:960:A:C8	26:1H:962:G:C8	3.00	0.49
26:1H:992:C:C2	26:1H:993:G:C8	3.00	0.49
26:1H:1288:U:H4'	26:1H:1289:C:OP2	2.13	0.49
26:1H:1635:G:H2'	26:1H:1636:C:C6	2.47	0.49
26:1H:2171:A:O2'	26:1H:2172:U:O4'	2.21	0.49
26:1H:2275:C:C6	26:1H:2275:C:H5'	2.47	0.49
26:1H:2544:G:H8	26:1H:2544:G:O5'	1.96	0.49
26:1H:2593:U:O2'	26:1H:2594:C:H5'	2.12	0.49
28:71:66:HIS:NE2	28:71:187:ASP:HB3	2.26	0.49
29:11:155:LEU:O	29:11:156:ALA:HB3	2.12	0.49
31:31:191:ARG:HB3	31:31:191:ARG:HH11	1.78	0.49
34:61:83:ALA:HB2	34:61:144:VAL:HG23	1.94	0.49
34:61:92:VAL:HG13	34:61:120:ILE:HG23	1.94	0.49
37:78:59:LEU:HB2	55:Q8:58:ILE:HD12	1.94	0.49
38:88:35:VAL:CG1	38:88:130:LYS:HB3	2.42	0.49
39:98:44:LEU:O	39:98:45:ARG:C	2.55	0.49
44:E8:70:TYR:N	44:E8:70:TYR:CD1	2.81	0.49
46:G8:20:TYR:HB3	46:G8:42:VAL:CG2	2.42	0.49
1:1G:69:G:C2	1:1G:73:G:C8	3.00	0.49
1:1G:396:G:C2	1:1G:398:C:C4	3.00	0.49
1:1G:401:C:O2'	1:1G:621:A:N3	2.43	0.49
1:1G:1224:G:N2	1:1G:1322:C:H4'	2.27	0.49
3:22:29:TYR:CD1	3:22:33:LEU:CB	2.90	0.49
6:52:44:GLY:HA2	6:52:59:TYR:CE1	2.47	0.49
12:3A:20:LYS:C	12:3A:20:LYS:CD	2.85	0.49
12:3A:20:LYS:CD	12:3A:21:LYS:N	2.69	0.49
26:14:945:A:H2	61:14:3846:HOH:O	1.94	0.49
26:14:1033:U:H3'	26:14:1033:U:H6	1.78	0.49
26:14:1126:A:H8	26:14:1126:A:O5'	1.95	0.49
26:14:1384:A:N3	26:14:1405:U:H1'	2.27	0.49
26:14:1915:U:H2'	26:14:1916:A:H5'	1.94	0.49
29:19:36:PRO:HD2	29:19:62:TYR:O	2.12	0.49
29:19:132:PRO:HG3	29:19:190:TYR:CE1	2.47	0.49
37:35:39:LYS:HA	37:35:45:LEU:HD13	1.94	0.49
38:45:25:ASP:HA	38:45:67:ARG:CZ	2.42	0.49
46:C5:84:ARG:O	46:C5:85:VAL:HG13	2.13	0.49
48:E5:28:GLY:HA2	48:E5:66:VAL:HG13	1.94	0.49
55:M5:60:LEU:HD12	55:M5:61:LEU:N	2.27	0.49
1:13:346:G:H8	41:B8:41:ARG:NH1	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:475:G:C2'	1:13:476:G:H5'	2.43	0.49
1:13:632:A:H2'	1:13:633:G:O4'	2.12	0.49
1:13:1074:G:H2'	1:13:1075:C:C6	2.48	0.49
1:13:1128:C:H5'	9:8E:16:ARG:CZ	2.43	0.49
1:13:1178:G:O2'	1:13:1180:A:N7	2.45	0.49
2:1E:21:ARG:HD3	2:1E:22:LYS:HB2	1.93	0.49
8:7E:97:VAL:HG21	8:7E:128:GLY:HA2	1.95	0.49
12:3I:66:VAL:HG22	12:3I:67:THR:N	2.28	0.49
26:1H:270(J):G:C5	26:1H:270(K):C:H1'	2.47	0.49
26:1H:270(L):U:O2	34:61:50:ARG:HG2	2.13	0.49
26:1H:1296:G:O2'	26:1H:1297:C:H5'	2.13	0.49
26:1H:1442:G:C2	26:1H:1550:C:O2	2.66	0.49
26:1H:1672:C:C2'	26:1H:1673:U:H5'	2.42	0.49
26:1H:2457:U:C2'	26:1H:2458:G:H5'	2.43	0.49
26:1H:2683:C:H5''	26:1H:2684:U:OP2	2.13	0.49
26:1H:2842:G:C4	26:1H:2876:G:N2	2.81	0.49
40:A8:16:ASN:O	40:A8:17:ARG:C	2.54	0.49
43:D8:39:LEU:O	43:D8:40:LEU:CD2	2.60	0.49
43:D8:93:GLU:O	43:D8:94:LEU:HD23	2.11	0.49
51:L8:7:LYS:HA	51:L8:33:GLN:O	2.12	0.49
1:1G:286:G:H2'	1:1G:287:U:H6	1.78	0.49
1:1G:428:G:C8	1:1G:430:A:C5	3.01	0.49
1:1G:433:C:H2'	1:1G:434:U:H6	1.77	0.49
1:1G:512:U:H2'	1:1G:513:C:C6	2.47	0.49
1:1G:841:U:H3'	1:1G:841:U:C6	2.47	0.49
1:1G:1498:U:O2'	1:1G:1499:A:OP2	2.18	0.49
4:32:160:GLN:O	4:32:163:GLU:N	2.44	0.49
8:72:86:ILE:HG13	8:72:135:CYS:HA	1.95	0.49
8:72:109:ILE:HG22	8:72:137:VAL:HB	1.93	0.49
12:3A:6:THR:HG23	12:3A:9:GLN:OE1	2.12	0.49
23:2L:23:G:H2'	23:2L:24:C:H6	1.77	0.49
26:14:389:G:H1	37:35:71:VAL:HG12	1.76	0.49
26:14:782:A:N7	29:19:221:VAL:HG21	2.26	0.49
26:14:1444(A):A:HO2'	26:14:1445:C:P	2.35	0.49
26:14:1796:U:H2'	26:14:1797:C:H6	1.77	0.49
26:14:2286:A:H4'	26:14:2287:A:O4'	2.13	0.49
26:14:2419:U:H2'	26:14:2420:C:C6	2.48	0.49
40:65:56:LEU:O	40:65:58:LEU:HG	2.12	0.49
42:85:95:LEU:HD11	43:95:11:GLN:O	2.13	0.49
1:13:455:C:H2'	1:13:456:C:H5'	1.94	0.49
1:13:590:C:H2'	1:13:591:U:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1064:G:H21	1:13:1190:G:H1'	1.78	0.49
1:13:1173:G:H2'	1:13:1174:G:O4'	2.13	0.49
2:1E:87:ARG:HH11	2:1E:219:VAL:HB	1.77	0.49
2:1E:187:LEU:HD23	2:1E:201:ILE:HG22	1.93	0.49
3:2E:91:LEU:HB3	3:2E:99:VAL:HG11	1.94	0.49
6:5E:86:ARG:O	6:5E:87:ARG:HG2	2.12	0.49
6:5E:95:GLU:H	6:5E:95:GLU:CD	2.21	0.49
8:7E:120:THR:H	8:7E:123:GLU:HG3	1.77	0.49
26:1H:270(G):C:H2'	26:1H:270(H):C:O4'	2.13	0.49
26:1H:322:A:H5'	26:1H:340:A:C1'	2.41	0.49
26:1H:878:A:H61	26:1H:899:A:H1'	1.76	0.49
26:1H:973:A:H8	26:1H:973:A:OP1	1.95	0.49
26:1H:996:A:C5	26:1H:1160:G:N2	2.81	0.49
26:1H:1429:G:H2'	26:1H:1430:C:C6	2.47	0.49
26:1H:1685:C:O2	26:1H:1704:G:N2	2.46	0.49
26:1H:2310:A:H4'	26:1H:2310:A:OP1	2.12	0.49
30:21:15:PHE:CD1	41:B8:81:PRO:HD2	2.48	0.49
32:41:66:GLN:NE2	32:41:92:VAL:HG23	2.28	0.49
40:A8:69:VAL:HA	40:A8:72:ALA:HB3	1.95	0.49
55:Q8:14:VAL:HG22	55:Q8:15:LYS:N	2.26	0.49
1:1G:219:C:H2'	1:1G:220:G:O4'	2.13	0.49
1:1G:412:A:O2'	1:1G:413:G:OP2	2.22	0.49
1:1G:617:G:H4'	16:7A:44:THR:HB	1.94	0.49
1:1G:854:G:N1	1:1G:855:G:N7	2.61	0.49
1:1G:1529:G:H3'	1:1G:1529:G:OP2	2.12	0.49
3:22:22:TRP:HH2	3:22:32:LEU:HB3	1.78	0.49
3:22:151:VAL:HA	3:22:199:LYS:O	2.12	0.49
7:62:27:ILE:HD11	7:62:43:PHE:CD2	2.45	0.49
12:3A:60:LEU:HB2	12:3A:64:TYR:HB2	1.94	0.49
18:9A:22:VAL:HG22	18:9A:23:LYS:N	2.26	0.49
56:1L:2:G:H2'	56:1L:2:G:N3	2.27	0.49
26:14:198:C:H5'	26:14:2244:U:OP1	2.13	0.49
26:14:383:U:H2'	26:14:385:C:H5	1.77	0.49
26:14:637:A:H4'	26:14:638:G:O5'	2.12	0.49
26:14:1036:G:P	33:59:59:ARG:HB2	2.52	0.49
26:14:1210:A:H5'	26:14:1212:G:C5'	2.43	0.49
26:14:1684:C:C2	26:14:1705:G:N2	2.81	0.49
26:14:2718:G:C6	26:14:2719:G:C5	3.00	0.49
26:14:2757:A:C2	33:59:67:LEU:HD22	2.47	0.49
27:1J:13:A:H5''	27:1J:15:A:C6	2.48	0.49
27:1J:42:C:O4'	32:49:69:ALA:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:25:49:ARG:HA	36:25:53:LYS:CE	2.43	0.49
36:25:96:THR:HG23	36:25:97:ARG:H	1.77	0.49
37:35:90:ARG:HG3	37:35:91:PHE:CD2	2.48	0.49
37:35:125:VAL:N	37:35:145:PRO:HD2	2.26	0.49
1:13:143:A:H2	1:13:220:G:H22	1.60	0.49
1:13:976:G:C8	1:13:1358:U:O2	2.66	0.49
2:1E:209:ARG:HD2	2:1E:239:VAL:HG13	1.94	0.49
5:4E:148:VAL:HG21	8:7E:107:LEU:CD2	2.42	0.49
9:8E:25:LYS:HD3	9:8E:60:ASP:OD2	2.13	0.49
26:1H:49:A:N7	26:1H:120:U:C5	2.72	0.49
26:1H:363:G:O2'	26:1H:363(A):A:H5'	2.13	0.49
26:1H:404:C:H1'	26:1H:405:U:OP2	2.13	0.49
26:1H:1179:C:H2'	26:1H:1180:C:C6	2.47	0.49
26:1H:1587:A:H2'	26:1H:1588:C:C6	2.47	0.49
26:1H:1990:C:H2'	26:1H:1991:U:C6	2.48	0.49
26:1H:2024:G:H2'	26:1H:2025:C:H6	1.78	0.49
26:1H:2503:A:H4'	26:1H:2504:U:OP1	2.11	0.49
26:1H:2886:G:N2	26:1H:2887:U:C2	2.81	0.49
30:21:171:GLU:OE2	30:21:185:LYS:NZ	2.42	0.49
32:41:154:GLY:C	32:41:155:MET:HE2	2.38	0.49
34:61:47:LEU:O	34:61:51:ILE:N	2.45	0.49
37:78:46:LYS:O	37:78:47:ASP:HB3	2.12	0.49
41:B8:5:ALA:HA	41:B8:8:LYS:HE2	1.95	0.49
41:B8:110:ILE:HG13	41:B8:111:ARG:N	2.27	0.49
46:G8:20:TYR:HB3	46:G8:42:VAL:HG22	1.95	0.49
47:H8:138:GLU:CD	47:H8:138:GLU:N	2.70	0.49
1:1G:434:U:H2'	1:1G:435:C:C6	2.48	0.49
1:1G:1298:C:O2'	1:1G:1299:A:OP2	2.29	0.49
1:1G:1349:A:OP2	9:82:118:LYS:NZ	2.44	0.49
3:22:18:TRP:HE1	14:5A:54:PRO:HA	1.78	0.49
3:22:36:ASP:HA	3:22:39:ILE:HD12	1.95	0.49
12:3A:55:VAL:HG23	12:3A:69:TYR:HA	1.95	0.49
16:7A:34:GLU:CD	16:7A:55:ARG:HH11	2.20	0.49
57:3L:22:G:N2	57:3L:23:A:N7	2.61	0.49
26:14:270(Z):U:O3'	26:14:271(A):C:H6	1.94	0.49
26:14:459:U:H2'	26:14:460:A:C8	2.48	0.49
26:14:602:G:OP2	26:14:602:G:H8	1.96	0.49
26:14:609(A):G:H2'	26:14:610:C:C6	2.47	0.49
26:14:947:G:N2	26:14:971:C:C2	2.80	0.49
26:14:1925:C:H2'	26:14:1926:U:H5'	1.94	0.49
26:14:2119:A:C4	26:14:2171:A:H2	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2305:A:H1'	32:49:136:ARG:HD3	1.95	0.49
26:14:2323:G:H2'	26:14:2324:C:O4'	2.12	0.49
26:14:2365:G:H2'	26:14:2366:A:C8	2.47	0.49
26:14:2412:A:C2	26:14:2413:G:H1'	2.48	0.49
26:14:2776:A:H4'	26:14:2777:G:O5'	2.13	0.49
27:1J:34:U:O4	27:1J:44:G:H2'	2.12	0.49
30:29:102:VAL:CA	30:29:201:THR:HG23	2.42	0.49
37:35:3:LEU:H	37:35:3:LEU:HD12	1.77	0.49
44:A5:20:VAL:HG21	44:A5:44:ALA:H	1.77	0.49
1:13:632:A:C8	1:13:633:G:C8	3.01	0.49
1:13:991:U:C4	1:13:1212:U:H1'	2.48	0.49
1:13:1123:A:O2'	10:1I:38:ILE:N	2.39	0.49
1:13:1195:C:H5''	1:13:1196:U:O5'	2.12	0.49
1:13:1442:G:N7	1:13:1446:A:C4	2.80	0.49
1:13:1442:G:C2'	1:13:1443:G:H5'	2.41	0.49
5:4E:104:ALA:HA	5:4E:107:ARG:HG2	1.94	0.49
24:3K:59:A:H5''	24:3K:60:U:C6	2.48	0.49
26:1H:536:A:H2'	26:1H:537:C:C6	2.48	0.49
26:1H:660:G:O3'	31:31:38:ARG:NH2	2.46	0.49
26:1H:937:U:H2'	26:1H:938:G:O4'	2.11	0.49
26:1H:1124:C:H2'	26:1H:1125:G:O4'	2.12	0.49
26:1H:1130:U:O2	30:21:149:ARG:NH2	2.41	0.49
26:1H:1317:A:H2'	26:1H:1318:C:C6	2.47	0.49
26:1H:1320:C:H4'	26:1H:1321:A:OP1	2.12	0.49
26:1H:1442:G:H1	26:1H:1549:C:N4	2.10	0.49
28:71:58:VAL:HG13	28:71:199:HIS:HB3	1.95	0.49
30:21:45:THR:O	30:21:83:ASP:N	2.45	0.49
35:58:6:PRO:HG3	35:58:41:ASP:HB2	1.93	0.49
41:B8:57:PHE:CE1	41:B8:79:HIS:HB2	2.47	0.49
47:H8:68:PRO:O	47:H8:91:LEU:HD22	2.13	0.49
52:M8:16:CYS:SG	52:M8:36:CYS:HB2	2.52	0.49
1:1G:222:U:H2'	1:1G:223:U:C6	2.47	0.49
1:1G:957:U:H1'	1:1G:960:U:H5	1.77	0.49
1:1G:1043:C:O5'	1:1G:1043:C:H6	1.95	0.49
1:1G:1120:G:O6	1:1G:1152:A:N6	2.46	0.49
1:1G:1238:A:H62	1:1G:1299:A:N6	2.11	0.49
3:22:22:TRP:CH2	3:22:32:LEU:HB3	2.47	0.49
9:82:18:PHE:O	9:82:19:LEU:HD23	2.13	0.49
13:4A:67:GLU:HG3	13:4A:68:GLY:N	2.28	0.49
26:14:469:G:C6	54:L5:39:ARG:NH1	2.81	0.49
26:14:523:C:H5''	26:14:541:C:O2'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:925:C:H2'	26:14:926:A:C8	2.47	0.49
26:14:1035:U:H2'	26:14:1036:G:C8	2.48	0.49
26:14:1562:A:H8	26:14:1562:A:O5'	1.94	0.49
26:14:1568:G:H4'	29:19:59:LYS:HD2	1.95	0.49
26:14:1659:U:C4	26:14:1660:C:C5	3.01	0.49
26:14:1777:U:O2'	26:14:1778:U:H5'	2.11	0.49
30:29:3:GLY:HA3	30:29:81:ILE:HD12	1.93	0.49
33:59:53:GLU:HA	33:59:65:HIS:HE1	1.77	0.49
40:65:43:GLU:HB2	48:E5:49:LYS:HZ1	1.77	0.49
44:A5:16:LYS:O	44:A5:19:LEU:HD23	2.12	0.49
49:F5:87:PRO:O	49:F5:88:LYS:C	2.55	0.49
1:13:113:G:O4'	1:13:354:G:H4'	2.12	0.49
1:13:487:A:H5''	1:13:488:C:OP2	2.13	0.49
1:13:640:A:O2'	8:7E:115:SER:HB2	2.12	0.49
1:13:1182:G:H8	1:13:1182:G:O5'	1.94	0.49
1:13:1236:A:H5''	1:13:1236:A:H8	1.77	0.49
4:3E:31:CYS:C	4:3E:33:MET:N	2.71	0.49
26:1H:924:C:H2'	26:1H:925:C:C6	2.47	0.49
26:1H:1412:A:H2'	26:1H:1413:G:C8	2.47	0.49
26:1H:1443:G:N2	26:1H:1549:C:C2	2.81	0.49
26:1H:1788:C:OP1	29:11:222:ARG:NH2	2.46	0.49
26:1H:1817:G:C5	26:1H:1818:U:C5	3.01	0.49
26:1H:2175:C:H1'	28:71:218:MET:HA	1.94	0.49
27:16:78:A:C2	27:16:99:A:C4	3.00	0.49
29:11:36:PRO:C	29:11:37:LEU:HD23	2.38	0.49
29:11:123:ALA:HB3	29:11:131:LEU:HG	1.94	0.49
34:61:110:ASP:HB3	34:61:112:LYS:N	2.28	0.49
35:58:39:ARG:HH21	35:58:41:ASP:CG	2.16	0.49
37:78:124:LYS:HA	37:78:143:GLY:O	2.12	0.49
41:B8:51:ARG:HB2	41:B8:98:LYS:CD	2.42	0.49
42:C8:31:SER:O	42:C8:32:PHE:C	2.53	0.49
47:H8:98:MET:O	47:H8:125:LEU:HA	2.13	0.49
48:I8:24:LYS:O	48:I8:25:ARG:NH1	2.45	0.49
1:1G:402:G:H8	1:1G:402:G:O5'	1.96	0.49
1:1G:1124:G:H2'	1:1G:1145:C:C5	2.48	0.49
1:1G:1346:A:H2'	7:62:10:ARG:HH22	1.78	0.49
2:12:84:GLU:OE1	2:12:216:SER:HB3	2.13	0.49
7:62:93:PRO:CG	7:62:94:ARG:HH21	2.26	0.49
8:72:97:VAL:HG22	8:72:129:VAL:O	2.13	0.49
9:82:112:LYS:N	9:82:113:LYS:HZ3	2.10	0.49
12:3A:42:THR:HG22	12:3A:54:LYS:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:28:A:C2	26:14:513:A:C8	3.00	0.49
26:14:142:G:OP1	26:14:1598:C:H1'	2.13	0.49
26:14:309:G:O3'	46:C5:18:GLY:HA3	2.11	0.49
26:14:535:C:C2'	26:14:536:A:H5'	2.42	0.49
26:14:1328:G:H2'	26:14:1330:C:C5	2.47	0.49
26:14:1644:C:O2'	26:14:1645:G:H5'	2.12	0.49
26:14:1727:U:H3	26:14:1733:G:H1	1.61	0.49
26:14:2032:G:O2'	30:29:145:LYS:NZ	2.46	0.49
26:14:2579:C:H4'	30:29:134:ILE:HG12	1.94	0.49
26:14:2636:U:H4'	30:29:80:GLU:OE2	2.13	0.49
26:14:2741:A:H8	26:14:2741:A:O5'	1.95	0.49
32:49:99:MET:O	32:49:103:LEU:HG	2.13	0.49
32:49:107:LEU:HD11	32:49:178:PHE:CE1	2.48	0.49
33:59:76:VAL:HG12	33:59:77:LYS:HD2	1.93	0.49
34:69:54:GLN:HA	34:69:57:ARG:HB3	1.94	0.49
40:65:5:THR:O	40:65:8:GLU:N	2.44	0.49
41:75:53:ARG:NH1	41:75:60:THR:HG23	2.27	0.49
42:85:27:LEU:HD12	42:85:31:SER:HB3	1.94	0.49
43:95:30:GLY:N	43:95:61:VAL:HB	2.28	0.49
43:95:48:GLY:HA2	43:95:51:VAL:C	2.38	0.49
50:G5:24:LEU:HD22	50:G5:60:LEU:HD21	1.94	0.49
1:13:1367:C:OP2	9:8E:112:LYS:NZ	2.43	0.49
1:13:1392:G:C5	1:13:1393:U:C5	3.01	0.49
4:3E:162:LEU:HA	4:3E:162:LEU:HD23	1.61	0.49
9:8E:55:ALA:O	9:8E:56:LEU:HD23	2.13	0.49
20:BI:30:LYS:HZ1	20:BI:80:ARG:HH12	1.59	0.49
22:1K:5:C:H2'	22:1K:68:G:H1	1.77	0.49
22:1K:34:U8U:S2	25:4K:21:A:C2	3.06	0.49
24:3K:50:C:H2'	24:3K:51:A:C8	2.48	0.49
26:1H:17:G:H2'	26:1H:18:C:C6	2.48	0.49
26:1H:1113:U:H5'	33:51:2:SER:N	2.28	0.49
26:1H:1176:G:C8	26:1H:1177:A:N1	2.80	0.49
26:1H:2205:C:H2'	26:1H:2206:C:H6	1.78	0.49
28:71:214:VAL:HG23	28:71:224:ILE:HG12	1.94	0.49
29:11:72:LYS:HG2	29:11:103:ARG:NH2	2.28	0.49
31:31:152:GLU:HG3	31:31:191:ARG:HD2	1.93	0.49
34:61:56:LYS:O	34:61:60:GLU:HB3	2.12	0.49
40:A8:100:ALA:HA	40:A8:103:GLU:HG2	1.94	0.49
40:A8:108:GLY:C	40:A8:110:LEU:HG	2.38	0.49
48:I8:41:ARG:NE	48:I8:41:ARG:HA	2.26	0.49
1:1G:262:A:C6	1:1G:263:A:C6	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:281:G:H8	1:1G:281:G:OP2	1.95	0.49
1:1G:416:G:H1	1:1G:427:U:H3	1.61	0.49
1:1G:464:G:N2	1:1G:467:G:C8	2.80	0.49
1:1G:492:G:H2'	1:1G:493:G:C8	2.48	0.49
1:1G:539:A:H2'	1:1G:540:G:H8	1.76	0.49
1:1G:692:U:H2'	1:1G:693:G:H3'	1.93	0.49
1:1G:1006:C:H2'	1:1G:1007:C:C6	2.48	0.49
1:1G:1124:G:N7	1:1G:1145:C:H2'	2.28	0.49
1:1G:1291:G:H4'	9:82:40:LEU:HD22	1.95	0.49
3:22:28:GLN:O	3:22:32:LEU:HB2	2.13	0.49
4:32:20:TYR:HA	4:32:26:CYS:SG	2.52	0.49
4:32:94:LEU:O	4:32:97:LEU:N	2.46	0.49
5:42:31:LEU:CD2	5:42:45:PHE:HB3	2.31	0.49
16:7A:53:VAL:HA	16:7A:56:ALA:HB3	1.95	0.49
23:2L:13:C:O2'	26:14:1924:C:H4'	2.12	0.49
26:14:248:G:H2'	61:14:3560:HOH:O	2.11	0.49
26:14:753:C:OP2	26:14:753:C:H6	1.96	0.49
26:14:866:A:H5''	26:14:867:C:OP2	2.13	0.49
26:14:1005:C:N4	26:14:1143:A:N3	2.61	0.49
26:14:1412:A:C6	26:14:1413:G:C6	3.00	0.49
26:14:2233:U:H2'	26:14:2234:G:O4'	2.13	0.49
30:29:15:PHE:CE2	41:75:80:SER:HA	2.48	0.49
30:29:64:LYS:C	30:29:66:HIS:N	2.70	0.49
32:49:32:PRO:HB2	32:49:172:LEU:HD22	1.94	0.49
32:49:136:ARG:CZ	32:49:154:GLY:N	2.74	0.49
35:15:39:ARG:HD3	35:15:48:MET:HE2	1.93	0.49
39:55:24:GLN:OE1	39:55:36:THR:HG21	2.11	0.49
41:75:91:ARG:NH1	41:75:124:ASP:OD1	2.46	0.49
54:L5:5:TRP:CD1	54:L5:7:PRO:HG3	2.47	0.49
1:13:116:A:H61	1:13:313:A:H1'	1.78	0.49
1:13:454:C:H3'	1:13:455:C:C6	2.48	0.49
1:13:735:C:H2'	1:13:736:C:C6	2.46	0.49
1:13:939:G:H2'	1:13:940:C:C6	2.47	0.49
1:13:1079:G:H2'	1:13:1080:A:C8	2.47	0.49
1:13:1206:G:O4'	3:2E:194:GLY:HA2	2.13	0.49
1:13:1347:G:N7	9:8E:10:ARG:NH2	2.48	0.49
2:1E:71:VAL:HG23	2:1E:164:VAL:HA	1.94	0.49
4:3E:107:ARG:HH11	4:3E:114:ARG:HH22	1.61	0.49
5:4E:80:ILE:HG12	5:4E:81:GLU:N	2.28	0.49
5:4E:143:ARG:HE	8:7E:77:GLU:CD	2.21	0.49
6:5E:97:PHE:HB2	18:9I:32:ARG:HH11	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:8E:9:ARG:HB3	9:8E:14:VAL:HG13	1.93	0.49
13:4I:13:LYS:C	13:4I:44:ARG:HH11	2.21	0.49
13:4I:47:ASP:O	13:4I:48:LEU:HB3	2.13	0.49
22:1K:2:G:N1	22:1K:3:G:O6	2.46	0.49
26:1H:134:C:H2'	26:1H:135:G:O4'	2.13	0.49
26:1H:141:A:H8	26:1H:1595:G:H21	1.61	0.49
26:1H:744:G:H5'	61:1H:3703:HOH:O	2.12	0.49
26:1H:784:A:O4'	29:11:227:ASN:ND2	2.45	0.49
26:1H:796:C:H2'	26:1H:797:C:C6	2.47	0.49
26:1H:805:G:H4'	26:1H:806:C:OP2	2.13	0.49
26:1H:1674:G:N3	26:1H:1676:A:N6	2.61	0.49
26:1H:1717:G:H2'	26:1H:1718:G:C8	2.48	0.49
26:1H:2309:A:C6	26:1H:2310:A:C8	3.00	0.49
26:1H:2667:C:H2'	26:1H:2668:G:O4'	2.13	0.49
29:11:35:LYS:HB3	29:11:35:LYS:HE3	1.35	0.49
33:51:153:LYS:HB2	33:51:155:SER:N	2.27	0.49
39:98:94:TYR:CD1	39:98:94:TYR:N	2.80	0.49
42:C8:50:ARG:NH1	43:D8:72:VAL:HG23	2.28	0.49
1:1G:630:G:H5'	1:1G:631:G:OP2	2.13	0.49
1:1G:867:G:H2'	1:1G:868:C:C6	2.46	0.49
1:1G:1058:G:H1	1:1G:1199:U:H3	1.60	0.49
1:1G:1142:G:H2'	1:1G:1143:G:O4'	2.13	0.49
1:1G:1263:C:C2	1:1G:1273:G:C2	3.01	0.49
15:6A:56:LEU:O	15:6A:60:VAL:HG23	2.12	0.49
56:1L:8:U:H2'	56:1L:22:G:H1	1.78	0.49
26:14:139:G:N2	26:14:141:A:N1	2.53	0.49
26:14:302:C:H2'	26:14:303:U:C6	2.47	0.49
26:14:583:G:OP2	42:85:10:ARG:HD2	2.13	0.49
26:14:1060:U:H4'	26:14:1061:U:H3'	1.94	0.49
26:14:1210:A:H5'	26:14:1212:G:O4'	2.13	0.49
26:14:1949:G:H2'	26:14:1950:G:O4'	2.12	0.49
26:14:2472:G:C4	26:14:2475:C:N4	2.81	0.49
32:49:19:LEU:HG	32:49:175:LEU:CD1	2.43	0.49
32:49:29:TRP:O	32:49:33:ARG:NH1	2.46	0.49
34:69:76:THR:HG23	34:69:77:LEU:N	2.28	0.49
41:75:42:ILE:HD12	41:75:44:ASP:OD1	2.13	0.49
1:13:265:G:H5''	17:8I:65:ILE:O	2.13	0.48
1:13:454:C:OP1	16:7I:71:ARG:HD3	2.12	0.48
1:13:736:C:O2	1:13:737:A:C8	2.65	0.48
2:1E:6:THR:HG22	2:1E:221:LEU:HD11	1.95	0.48
2:1E:98:LEU:HG	2:1E:101:MET:HE3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:70:ILE:HG23	4:3E:75:PHE:HB2	1.94	0.48
4:3E:80:GLU:O	4:3E:84:LYS:HG2	2.13	0.48
4:3E:142:PRO:HA	4:3E:185:PHE:HD1	1.78	0.48
11:2I:48:ILE:HG12	11:2I:63:LEU:HB2	1.95	0.48
15:6I:6:GLU:OE2	15:6I:6:GLU:N	2.33	0.48
22:1K:64:G:H2'	22:1K:65:C:O4'	2.13	0.48
26:1H:534:U:H5'	42:C8:42:ALA:HB1	1.94	0.48
26:1H:963:U:H2'	26:1H:964:C:C6	2.48	0.48
26:1H:1283:G:N2	26:1H:1286:A:OP2	2.45	0.48
26:1H:1533:C:H3'	26:1H:1534:G:H5''	1.95	0.48
26:1H:1533:C:H6	26:1H:1534:G:H5''	1.78	0.48
26:1H:1543:A:H1'	26:1H:1544:C:H5''	1.94	0.48
26:1H:2324:C:H5''	26:1H:2325:G:H5'	1.95	0.48
30:21:36:ARG:NH1	30:21:85:ASN:OD1	2.45	0.48
30:21:147:PRO:HB2	30:21:149:ARG:HG3	1.95	0.48
36:68:7:TYR:CZ	36:68:44:LYS:HG3	2.48	0.48
38:88:66:ILE:O	38:88:67:ARG:HB2	2.13	0.48
46:G8:55:TYR:N	46:G8:56:PRO:HD3	2.28	0.48
1:1G:162:A:O5'	1:1G:162:A:H8	1.96	0.48
1:1G:246:A:C5	1:1G:279:A:C6	3.01	0.48
1:1G:323:U:H4'	20:BA:22:ARG:HB2	1.94	0.48
1:1G:440:A:H3'	1:1G:442:C:H6	1.77	0.48
1:1G:738:C:H4'	6:52:69:GLU:O	2.13	0.48
1:1G:1037:C:H2'	1:1G:1038:C:C6	2.48	0.48
1:1G:1123:A:H4'	10:1A:36:GLY:CA	2.41	0.48
1:1G:1217:C:H5''	14:5A:9:LYS:HZ1	1.77	0.48
1:1G:1223:C:OP2	1:1G:1224:G:H2'	2.13	0.48
1:1G:1309:G:C2	1:1G:1329:A:C2	3.00	0.48
4:32:190:ASP:OD1	4:32:191:ARG:N	2.46	0.48
9:82:96:LEU:H	9:82:96:LEU:HD12	1.78	0.48
18:9A:53:ARG:NH2	18:9A:60:ALA:H	2.10	0.48
26:14:205:G:O2'	26:14:206:U:OP2	2.23	0.48
26:14:901:A:H2'	26:14:901:A:N3	2.26	0.48
26:14:1005:C:N3	26:14:1143:A:C4	2.81	0.48
26:14:2020:A:OP1	42:85:27:LEU:HD23	2.13	0.48
26:14:2611:U:H2'	53:J5:2:ALA:O	2.13	0.48
26:14:2647:U:H2'	26:14:2648:C:H6	1.78	0.48
27:1J:18:G:N2	27:1J:108:C:N3	2.61	0.48
31:39:146:ALA:HB3	31:39:148:LEU:HB2	1.95	0.48
1:13:571:U:O2'	1:13:918:A:OP1	2.28	0.48
1:13:1116:C:H42	1:13:1184:G:H1	1.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1405:G:O4'	1:13:1519:A:H4'	2.13	0.48
1:13:1423:G:OP1	36:68:49:ARG:NH2	2.47	0.48
1:13:1499:A:O2'	1:13:1500:A:H5'	2.12	0.48
2:1E:208:ILE:HA	2:1E:211:ILE:HD12	1.94	0.48
3:2E:175:LEU:HD21	3:2E:201:TYR:CE2	2.48	0.48
4:3E:167:GLY:HA2	29:19:135:PHE:CZ	2.48	0.48
17:8I:31:LEU:HG	17:8I:32:TYR:CE1	2.48	0.48
20:BI:53:LEU:HB2	20:BI:100:ILE:HG22	1.94	0.48
23:2K:20:G:N2	32:41:78:SER:OG	2.45	0.48
24:3K:15:G:H2'	24:3K:59:A:N6	2.27	0.48
24:3K:68:G:C2	24:3K:69:A:C5	3.00	0.48
26:1H:153:C:H2'	26:1H:154:G:C8	2.47	0.48
26:1H:270(N):G:OP1	34:61:57:ARG:NH1	2.46	0.48
26:1H:1045:A:OP1	26:1H:1046:A:H3'	2.13	0.48
26:1H:1268:A:H2'	26:1H:1269:A:O4'	2.13	0.48
26:1H:2098:U:H2'	26:1H:2099:U:O4'	2.14	0.48
26:1H:2213:U:H1'	49:J8:52:ARG:CZ	2.43	0.48
26:1H:2632:A:H2'	26:1H:2633:G:C8	2.48	0.48
26:1H:2641:G:OP1	35:58:74:ARG:NE	2.46	0.48
26:1H:2655:G:O2'	26:1H:2664:G:O6	2.21	0.48
26:1H:2720:U:O2	26:1H:2720:U:H2'	2.14	0.48
26:1H:2879:C:O2	26:1H:2881:C:N4	2.42	0.48
29:11:11:PRO:O	29:11:12:SER:OG	2.25	0.48
29:11:16:MET:HE3	29:11:211:ARG:HD3	1.94	0.48
37:78:112:LEU:O	37:78:128:HIS:HB2	2.12	0.48
42:C8:90:VAL:HA	43:D8:39:LEU:HD13	1.94	0.48
51:L8:31:LEU:O	51:L8:32:GLN:HB2	2.13	0.48
55:Q8:21:LYS:HD3	55:Q8:49:VAL:CG1	2.44	0.48
1:1G:757:U:H2'	1:1G:758:G:O4'	2.12	0.48
1:1G:1071:C:H5''	5:42:49:PRO:HG3	1.95	0.48
1:1G:1158:C:N3	1:1G:1160:G:C4	2.81	0.48
1:1G:1441:G:H5''	1:1G:1442:G:H5'	1.95	0.48
3:22:18:TRP:HZ2	14:5A:56:VAL:H	1.61	0.48
3:22:29:TYR:O	3:22:33:LEU:N	2.36	0.48
6:52:2:ARG:HB3	6:52:4:TYR:CE2	2.48	0.48
56:1L:63:U:O2'	26:14:2482:G:O3'	2.31	0.48
26:14:458:G:H5'	54:L5:40:TRP:HE1	1.77	0.48
26:14:511:U:H3'	26:14:512:G:H5''	1.95	0.48
26:14:1921:G:H2'	26:14:1922:G:H8	1.78	0.48
26:14:2051:A:H4'	30:29:141:ILE:HG12	1.95	0.48
26:14:2113:U:C4	26:14:2114:A:H1'	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2415:G:C2	26:14:2416:C:C2	3.01	0.48
26:14:2461:C:H2'	26:14:2462:U:H6	1.77	0.48
26:14:2768:C:H2'	26:14:2769:C:O4'	2.13	0.48
30:29:72:VAL:HG23	30:29:74:PRO:HG3	1.93	0.48
37:35:138:LEU:HD13	37:35:138:LEU:O	2.13	0.48
40:65:43:GLU:HB2	48:E5:49:LYS:NZ	2.28	0.48
45:B5:12:VAL:HG23	45:B5:17:ALA:HB2	1.94	0.48
1:13:52:G:O2'	1:13:53:A:H5'	2.13	0.48
1:13:407:G:H2'	1:13:408:A:C8	2.47	0.48
1:13:542:G:H5'	4:3E:41:GLY:HA3	1.95	0.48
1:13:1128:C:H5'	9:8E:16:ARG:NH2	2.28	0.48
1:13:1157:A:C6	1:13:1181:G:C8	3.00	0.48
3:2E:129:ALA:HB3	3:2E:132:ARG:HE	1.78	0.48
3:2E:130:VAL:O	3:2E:134:ILE:HG12	2.13	0.48
4:3E:191:ARG:HH12	4:3E:196:LEU:H	1.61	0.48
8:7E:87:SER:HB2	8:7E:93:VAL:HG23	1.96	0.48
10:1I:25:GLU:OE2	10:1I:25:GLU:N	2.46	0.48
19:AI:41:VAL:H	19:AI:44:MET:HG3	1.78	0.48
19:AI:69:HIS:HB2	19:AI:74:PHE:HZ	1.76	0.48
26:1H:1168:G:H2'	26:1H:1169:G:O4'	2.13	0.48
26:1H:1759:A:C5'	26:1H:2715:C:H1'	2.43	0.48
26:1H:1925:C:C2'	26:1H:1926:U:H5'	2.43	0.48
26:1H:2131:G:H5'	26:1H:2133:G:O5'	2.13	0.48
26:1H:2248:C:H2'	26:1H:2249:U:O4'	2.14	0.48
26:1H:2592:G:H2'	26:1H:2593:U:H5'	1.95	0.48
26:1H:2838:G:C6	26:1H:2839:G:C5	3.02	0.48
27:16:12:C:H2'	48:I8:73:GLY:HA3	1.95	0.48
29:11:75:ILE:H	29:11:75:ILE:HD12	1.78	0.48
30:21:31:CYS:HB3	30:21:49:LEU:HD23	1.96	0.48
33:51:86:GLU:O	33:51:131:VAL:O	2.29	0.48
37:78:39:LYS:HA	37:78:45:LEU:HD13	1.95	0.48
37:78:113:LYS:HA	37:78:129:ALA:O	2.12	0.48
38:88:42:ILE:HD13	38:88:97:VAL:HB	1.94	0.48
39:98:101:ALA:HB2	53:N8:44:THR:HB	1.95	0.48
1:1G:854:G:C2	1:1G:855:G:C8	3.00	0.48
1:1G:922:G:N3	1:1G:1398:A:H2	2.11	0.48
1:1G:979:C:H3'	1:1G:980:C:C5'	2.41	0.48
1:1G:997:U:H2'	1:1G:998:G:H8	1.76	0.48
1:1G:1073:U:H2'	1:1G:1074:G:C8	2.48	0.48
7:62:115:ARG:HB2	7:62:118:VAL:HG13	1.94	0.48
9:82:79:LEU:O	9:82:82:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2A:100:ALA:O	11:2A:102:GLY:N	2.47	0.48
12:3A:70:ILE:HG21	12:3A:75:HIS:CD2	2.48	0.48
13:4A:50:GLU:HG3	13:4A:53:VAL:HB	1.96	0.48
23:2L:37:U:H2'	23:2L:38:A:O4'	2.13	0.48
26:14:1015:G:O2'	26:14:1016:G:H5'	2.13	0.48
27:1J:99:A:C4	27:1J:100:G:C8	3.01	0.48
29:19:242:ARG:HH11	29:19:242:ARG:N	2.09	0.48
32:49:151:ALA:HB3	32:49:153:ARG:NH1	2.27	0.48
46:C5:82:PRO:HG3	46:C5:97:ARG:HB3	1.95	0.48
47:D5:98:MET:O	47:D5:125:LEU:HA	2.13	0.48
1:13:664:G:N2	1:13:741:G:H1	2.06	0.48
1:13:823:G:C6	1:13:878:G:N1	2.81	0.48
1:13:1159:U:O4'	1:13:1182:G:N2	2.46	0.48
5:4E:11:ILE:HG23	5:4E:33:VAL:HG23	1.95	0.48
6:5E:20:ALA:HA	6:5E:23:LYS:HE2	1.95	0.48
9:8E:59:PHE:HZ	9:8E:88:TYR:CE1	2.31	0.48
15:6I:39:LEU:HD13	15:6I:56:LEU:HB2	1.96	0.48
23:2K:16:C:O2'	23:2K:62:C:OP1	2.32	0.48
25:4K:18:G:H4'	25:4K:19:A:OP2	2.13	0.48
26:1H:322:A:H3'	31:31:169:ASN:OD1	2.14	0.48
26:1H:654(A):A:C2	26:1H:654(T):A:N1	2.82	0.48
26:1H:871:U:OP2	38:88:5:ARG:NH1	2.46	0.48
26:1H:1051:G:H2'	26:1H:1051:G:N3	2.27	0.48
26:1H:1403:C:O2	26:1H:1403:C:H2'	2.13	0.48
26:1H:1470:G:O2'	26:1H:1522:G:O6	2.31	0.48
26:1H:2248:C:C5	26:1H:2249:U:C4	3.01	0.48
26:1H:2817:G:C4	26:1H:2830:G:N2	2.81	0.48
32:41:135:LEU:HD13	32:41:140:ILE:HD11	1.94	0.48
32:41:153:ARG:HD3	32:41:153:ARG:N	2.29	0.48
34:61:95:LYS:HA	34:61:111:PRO:HG3	1.96	0.48
40:A8:106:ARG:HH11	40:A8:106:ARG:C	2.20	0.48
43:D8:48:GLY:O	43:D8:49:THR:OG1	2.32	0.48
47:H8:93:ASP:O	47:H8:94:GLU:HG3	2.14	0.48
49:J8:85:LEU:HD12	49:J8:88:LYS:HG3	1.96	0.48
53:N8:40:LYS:HE2	53:N8:47:PRO:HG2	1.95	0.48
1:1G:953:G:C6	1:1G:954:G:C4	3.01	0.48
1:1G:1013:G:O2'	1:1G:1014:A:N7	2.37	0.48
1:1G:1199:U:H5'	10:1A:54:PHE:CE2	2.49	0.48
1:1G:1352:C:OP1	21:1B:3:LYS:NZ	2.44	0.48
3:22:73:PRO:HA	3:22:76:VAL:HG13	1.95	0.48
4:32:108:LEU:HG	4:32:110:PHE:HE1	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:42:61:TYR:HA	5:42:64:ARG:HG3	1.95	0.48
12:3A:20:LYS:CE	12:3A:21:LYS:C	2.84	0.48
23:2L:63:C:H2'	23:2L:64:G:C8	2.49	0.48
23:2L:73:A:C6	23:2L:74:A:C6	3.01	0.48
26:14:481:G:OP2	46:C5:47:LYS:HB2	2.13	0.48
26:14:1358:G:N1	26:14:1372:U:OP2	2.25	0.48
26:14:1545:A:H2'	26:14:1545(A):A:O4'	2.12	0.48
26:14:1783:A:H5'	26:14:2608:G:H4'	1.95	0.48
26:14:2505:G:O6	53:J5:3:LYS:NZ	2.46	0.48
26:14:2507:C:H5''	26:14:2573:C:N4	2.29	0.48
26:14:2840:C:H4'	39:55:53:HIS:CE1	2.49	0.48
30:29:38:THR:O	30:29:42:ASP:N	2.44	0.48
33:59:144:VAL:HG12	33:59:147:ASN:HB2	1.95	0.48
55:M5:50:LEU:HG	55:M5:51:ALA:N	2.28	0.48
1:13:49:U:N3	1:13:361:G:N2	2.62	0.48
1:13:112:G:OP1	16:7I:27:LYS:HD2	2.13	0.48
1:13:340:U:H2'	1:13:341:C:O4'	2.13	0.48
1:13:417:C:H2'	1:13:418:C:H6	1.78	0.48
1:13:1478:C:H2'	1:13:1479:C:C6	2.48	0.48
5:4E:24:ARG:HG3	5:4E:26:PHE:CE1	2.48	0.48
5:4E:64:ARG:HD2	5:4E:64:ARG:H	1.77	0.48
11:2I:59:TYR:O	11:2I:62:GLN:HB3	2.13	0.48
11:2I:73:MET:HE2	11:2I:103:LEU:HB2	1.94	0.48
11:2I:125:PHE:N	11:2I:125:PHE:CD1	2.81	0.48
19:AI:67:VAL:HG23	19:AI:68:GLY:H	1.78	0.48
24:3K:3:G:O5'	24:3K:3:G:H8	1.95	0.48
26:1H:753:C:OP2	26:1H:753:C:H6	1.95	0.48
26:1H:1021:A:H2'	26:1H:1023:U:H5'	1.94	0.48
26:1H:1196:C:H2'	26:1H:1197:G:O4'	2.14	0.48
26:1H:1295:C:O4'	39:98:23:ASN:ND2	2.28	0.48
26:1H:1378:A:O2'	26:1H:1380:G:N7	2.38	0.48
26:1H:1651:G:H1	26:1H:2006:C:H42	1.60	0.48
26:1H:2016:U:H1'	53:N8:6:VAL:HG13	1.95	0.48
26:1H:2246:G:H2'	26:1H:2247:A:C8	2.49	0.48
26:1H:2262:U:H4'	26:1H:2328:A:C2	2.49	0.48
26:1H:2518:A:C5'	26:1H:2518:A:C8	2.97	0.48
26:1H:2849:U:H1'	26:1H:2866:U:O2	2.14	0.48
27:16:12:C:O2'	48:I8:74:ARG:HG2	2.14	0.48
29:11:205:VAL:O	29:11:205:VAL:HG12	2.13	0.48
34:61:29:TYR:C	34:61:32:PRO:HD2	2.39	0.48
47:H8:9:TYR:HE1	47:H8:35:ARG:HD2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:J8:90:ILE:HD13	49:J8:90:ILE:HG21	1.57	0.48
50:K8:63:VAL:O	50:K8:66:GLU:HG3	2.14	0.48
52:M8:15:ILE:HG12	52:M8:33:VAL:H	1.78	0.48
1:1G:81:G:N1	1:1G:89:U:N3	2.54	0.48
1:1G:135:C:O2	16:7A:1:MET:HB3	2.12	0.48
1:1G:390:C:O2'	16:7A:28:ARG:NH1	2.47	0.48
1:1G:1329:A:O2'	13:4A:24:GLY:HA2	2.12	0.48
1:1G:1472:U:H2'	1:1G:1473:A:O4'	2.13	0.48
2:12:174:VAL:HG12	2:12:178:ARG:HG2	1.95	0.48
3:22:59:ARG:HD2	3:22:64:VAL:HG23	1.94	0.48
4:32:31:CYS:HB2	4:32:33:MET:N	2.28	0.48
9:82:50:LEU:HD21	9:82:85:LEU:HB2	1.94	0.48
10:1A:33:GLN:OE1	10:1A:75:ILE:HG21	2.13	0.48
12:3A:85:ILE:HD11	12:3A:98:TYR:HB2	1.96	0.48
15:6A:39:LEU:HD12	15:6A:56:LEU:HB2	1.94	0.48
16:7A:81:ARG:HG3	16:7A:83:GLU:OE1	2.13	0.48
26:14:311:A:C8	26:14:332:A:N7	2.82	0.48
26:14:392:C:H5''	26:14:409:C:H5''	1.95	0.48
26:14:455:C:N3	26:14:473:G:H5'	2.29	0.48
26:14:558:G:OP2	35:15:111:PRO:HD2	2.14	0.48
26:14:796:C:H2'	26:14:797:C:H6	1.78	0.48
26:14:878:A:H5''	26:14:900:A:H61	1.76	0.48
26:14:997:G:C2	26:14:998:C:C6	3.02	0.48
26:14:1188:U:H5'	43:95:79:VAL:HB	1.95	0.48
26:14:1432:C:H2'	26:14:1433:U:O4'	2.13	0.48
26:14:1751:C:H2'	26:14:1752:C:H6	1.76	0.48
26:14:1754:C:H2'	26:14:1755:A:C8	2.48	0.48
26:14:1794:U:O2'	26:14:1795:C:H5'	2.13	0.48
26:14:2080:G:H5'	49:F5:35:THR:OG1	2.12	0.48
27:1J:42:C:O2	32:49:93:THR:N	2.41	0.48
37:35:90:ARG:HG3	37:35:91:PHE:H	1.78	0.48
38:45:21:THR:CG2	38:45:24:GLY:H	2.27	0.48
39:55:107:ASP:C	39:55:107:ASP:OD1	2.57	0.48
44:A5:29:LEU:HD13	44:A5:51:LEU:HD21	1.96	0.48
46:C5:43:ASN:HB2	46:C5:62:GLU:O	2.13	0.48
48:E5:12:ASN:HA	48:E5:14:ARG:NH2	2.25	0.48
1:13:37:U:O2'	1:13:500:G:H4'	2.12	0.48
1:13:105:G:H2'	1:13:106:C:C6	2.48	0.48
1:13:186:C:O2'	20:BI:85:MET:SD	2.69	0.48
1:13:269:C:H2'	1:13:270:A:C8	2.48	0.48
1:13:407:G:OP1	4:3E:115:ARG:NH1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:976:G:H5'	1:13:1358:U:O2'	2.13	0.48
1:13:1447:G:H8	1:13:1447:G:O5'	1.97	0.48
1:13:1499:A:H2'	1:13:1500:A:H8	1.78	0.48
9:8E:108:VAL:HG12	9:8E:109:VAL:H	1.78	0.48
14:5I:12:ARG:C	14:5I:14:PRO:HD2	2.37	0.48
22:1K:29:U:H2'	22:1K:30:G:C8	2.48	0.48
26:1H:275:G:N7	26:1H:363:G:C6	2.82	0.48
26:1H:806:C:O2	26:1H:2444:G:O2'	2.30	0.48
26:1H:1259:G:O2'	26:1H:1260:G:H5'	2.13	0.48
26:1H:1548:C:O2'	26:1H:1549:C:H5'	2.13	0.48
26:1H:1668:A:H4'	26:1H:1669:A:O5'	2.13	0.48
26:1H:2367:G:H2'	26:1H:2368:C:C6	2.48	0.48
26:1H:2884:U:C2	26:1H:2885:C:C6	3.02	0.48
27:16:10:C:H2'	27:16:11:C:H6	1.78	0.48
28:7I:15:ASP:OD1	28:7I:18:LYS:HB2	2.14	0.48
30:21:34:VAL:HG22	30:21:48:GLN:HB3	1.95	0.48
30:21:105:THR:HB	30:21:197:ILE:HG23	1.96	0.48
31:31:6:VAL:HG12	31:31:7:TYR:H	1.79	0.48
37:78:108:LYS:C	37:78:110:TYR:H	2.21	0.48
41:B8:107:ASP:O	41:B8:110:ILE:HG12	2.13	0.48
43:D8:10:LYS:NZ	43:D8:23:GLU:OE1	2.46	0.48
50:K8:33:MET:O	50:K8:37:PHE:CD1	2.66	0.48
1:1G:419:C:N4	1:1G:424:G:H1	2.11	0.48
1:1G:431:A:H2'	1:1G:431:A:N3	2.29	0.48
1:1G:1267:C:O2	21:1B:20:LYS:HE3	2.13	0.48
1:1G:1288:A:H4'	21:1B:13:ILE:HD13	1.94	0.48
4:32:20:TYR:HD1	4:32:26:CYS:HB3	1.77	0.48
11:2A:114:VAL:HG23	11:2A:115:PRO:HD2	1.96	0.48
15:6A:83:GLU:OE1	15:6A:84:LYS:NZ	2.42	0.48
57:3L:8:U:H3	57:3L:14:A:H61	1.61	0.48
26:14:265:A:H4'	26:14:266:G:O5'	2.12	0.48
26:14:531:C:C5	26:14:2035:G:C2	3.01	0.48
26:14:648:G:O4'	26:14:2351:G:H5''	2.14	0.48
26:14:1139:G:O2'	26:14:1143:A:N1	2.45	0.48
26:14:1449:A:H5'	26:14:1449(A):G:OP2	2.13	0.48
26:14:2637:U:H5'	30:29:44:TYR:CD1	2.49	0.48
26:14:2844:G:C6	26:14:2845:G:C4	3.01	0.48
27:1J:14:U:O3'	27:1J:107:U:O2'	2.31	0.48
27:1J:16:G:H2'	27:1J:17:C:H6	1.77	0.48
27:1J:109:G:C6	27:1J:110:G:C6	3.01	0.48
31:39:6:VAL:HG23	31:39:124:LEU:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:141:PHE:C	32:49:143:GLU:H	2.22	0.48
36:25:4:PRO:O	36:25:5:GLN:CB	2.61	0.48
40:65:33:LYS:HB3	40:65:34:HIS:CD2	2.49	0.48
45:B5:18:TYR:C	45:B5:20:GLY:H	2.22	0.48
47:D5:158:PRO:HD2	47:D5:161:VAL:HG22	1.96	0.48
51:H5:3:ARG:O	51:H5:58:VAL:HG13	2.12	0.48
53:J5:20:ARG:O	53:J5:23:HIS:HB2	2.14	0.48
1:13:150:C:H2'	1:13:151:A:H8	1.79	0.48
1:13:277:C:H5''	17:8I:68:ARG:NH2	2.28	0.48
1:13:332:G:H2'	1:13:333:G:H8	1.78	0.48
1:13:438:G:H5'	4:3E:123:HIS:ND1	2.29	0.48
1:13:1176:A:H3'	1:13:1177:G:H5''	1.96	0.48
4:3E:107:ARG:CZ	4:3E:194:LEU:HD22	2.44	0.48
5:4E:137:GLU:HA	5:4E:140:ARG:HD3	1.95	0.48
11:2I:108:ILE:O	18:9I:86:VAL:HA	2.14	0.48
24:3K:65:C:H2'	24:3K:66:A:H8	1.76	0.48
26:1H:67:U:N3	26:1H:74:A:H2	2.11	0.48
26:1H:531:C:H4'	26:1H:532:A:H5''	1.95	0.48
26:1H:532:A:N7	26:1H:2021:C:O2'	2.36	0.48
26:1H:1211:U:H3'	26:1H:1212:G:H5'	1.95	0.48
26:1H:1387:C:O2	26:1H:1387:C:H2'	2.14	0.48
26:1H:2185:C:N4	26:1H:2186:G:O6	2.46	0.48
26:1H:2876:G:O5'	41:B8:2:ASN:HB3	2.13	0.48
32:41:142:PRO:O	52:M8:31:ILE:HG21	2.14	0.48
34:61:11:ASN:O	34:61:12:LEU:HB3	2.13	0.48
43:D8:34:GLU:HG2	43:D8:56:SER:HB3	1.94	0.48
46:G8:96:ILE:HB	46:G8:101:LYS:HG2	1.95	0.48
55:Q8:14:VAL:HG22	55:Q8:15:LYS:H	1.77	0.48
1:1G:175:C:H2'	1:1G:176:C:O4'	2.13	0.48
1:1G:501:C:H2'	1:1G:502:G:H8	1.79	0.48
1:1G:548:G:H2'	1:1G:549:C:C6	2.49	0.48
1:1G:766:A:H2'	1:1G:767:A:O4'	2.14	0.48
1:1G:838:G:N2	1:1G:842:C:H1'	2.29	0.48
1:1G:976:G:OP1	14:5A:29:ARG:NH1	2.46	0.48
3:22:111:LEU:HG	3:22:141:VAL:HG13	1.96	0.48
9:82:112:LYS:HD3	9:82:113:LYS:N	2.29	0.48
16:7A:57:ARG:HH21	16:7A:79:VAL:C	2.19	0.48
26:14:11:G:H1'	26:14:2801:A:O3'	2.14	0.48
26:14:528:A:O2'	26:14:529:A:H5'	2.12	0.48
26:14:957:A:C4'	38:45:76:LYS:CE	2.91	0.48
27:1J:21:G:H1	27:1J:62:C:H42	1.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:19:84:TYR:HE1	29:19:86:PRO:HB3	1.78	0.48
29:19:175:LEU:HD12	29:19:185:VAL:HG21	1.95	0.48
29:19:255:LYS:HD3	29:19:255:LYS:N	2.14	0.48
31:39:89:VAL:HG12	31:39:90:PHE:N	2.27	0.48
31:39:198:ALA:O	31:39:201:VAL:HG12	2.12	0.48
34:69:29:TYR:O	34:69:33:ARG:HB2	2.13	0.48
36:25:101:PRO:HB3	36:25:122:LEU:HD12	1.96	0.48
40:65:106:ARG:O	40:65:107:GLU:CD	2.56	0.48
45:B5:51:VAL:HG13	45:B5:81:VAL:HG23	1.95	0.48
46:C5:52:SER:HA	46:C5:55:TYR:C	2.37	0.48
49:F5:18:ILE:HG12	49:F5:37:ILE:CD1	2.43	0.48
1:13:380:G:N2	1:13:384:G:C5	2.81	0.48
1:13:767:A:H8	1:13:767:A:O5'	1.96	0.48
1:13:1481:U:H2'	1:13:1482:G:C8	2.47	0.48
2:1E:21:ARG:HD3	2:1E:21:ARG:C	2.38	0.48
2:1E:86:GLU:C	2:1E:89:GLY:H	2.22	0.48
3:2E:18:TRP:NE1	14:5I:55:GLY:H	2.12	0.48
24:3K:5:C:H1'	24:3K:69:A:N1	2.28	0.48
26:1H:11:G:H2'	26:1H:12:U:H5'	1.94	0.48
26:1H:139:G:N3	26:1H:141:A:N1	2.61	0.48
26:1H:671:C:OP1	37:78:42:SER:O	2.32	0.48
26:1H:740:U:H2'	26:1H:741:G:C8	2.49	0.48
26:1H:1044:G:O2'	26:1H:1111:A:N6	2.35	0.48
26:1H:1341:U:H4'	26:1H:1342:A:OP2	2.13	0.48
26:1H:1636:C:H2'	26:1H:1637:A:C8	2.49	0.48
26:1H:2125:G:OP1	28:71:40:THR:HG21	2.13	0.48
26:1H:2532:G:O2'	26:1H:2657:A:N1	2.42	0.48
26:1H:2681:C:OP2	30:21:109:LYS:NZ	2.35	0.48
26:1H:2683:C:O2'	30:21:13:ARG:NH1	2.46	0.48
26:1H:2818:G:N2	26:1H:2829:C:C2	2.81	0.48
27:16:14:U:OP2	27:16:70:C:O2'	2.18	0.48
28:71:184:LYS:HA	28:71:187:ASP:HB2	1.95	0.48
29:11:5:LYS:C	29:11:6:PHE:CD1	2.92	0.48
35:58:69:GLN:HE21	35:58:69:GLN:HB3	1.31	0.48
41:B8:8:LYS:O	41:B8:11:GLU:HB2	2.13	0.48
45:F8:52:VAL:HG22	45:F8:82:GLN:O	2.13	0.48
1:1G:737:A:H2'	1:1G:738:C:H6	1.78	0.48
1:1G:1275:A:H2'	1:1G:1276:G:C8	2.49	0.48
1:1G:1329:A:H5''	13:4A:25:ILE:C	2.39	0.48
1:1G:1462:G:H2'	1:1G:1463:C:H6	1.77	0.48
2:12:115:LEU:HB2	2:12:145:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:22:59:ARG:HB3	3:22:64:VAL:HA	1.94	0.48
5:42:57:LYS:HA	5:42:60:TYR:CD2	2.48	0.48
7:62:145:ALA:O	7:62:146:GLU:HB3	2.13	0.48
8:72:31:PHE:HZ	8:72:134:ILE:CD1	2.27	0.48
13:4A:91:ARG:HB3	13:4A:96:LEU:O	2.14	0.48
57:3L:69:A:H2'	57:3L:70:C:C6	2.49	0.48
26:14:270(E):G:N3	26:14:270(V):G:C2	2.82	0.48
26:14:863:A:O2'	26:14:864:G:H5'	2.14	0.48
26:14:1188:U:C2'	26:14:1189:A:H5'	2.44	0.48
26:14:1443:G:N2	26:14:1549:C:N3	2.62	0.48
26:14:1826:G:H4'	29:19:242:ARG:HH21	1.79	0.48
26:14:2271:G:H2'	26:14:2272:U:C6	2.49	0.48
26:14:2415:G:C4'	37:35:67:MET:H	2.08	0.48
26:14:2489:G:C6	26:14:2490:G:N7	2.82	0.48
26:14:2569:G:C2	26:14:2570:G:C8	3.02	0.48
26:14:2814:C:H5''	26:14:2815:C:OP2	2.14	0.48
31:39:47:GLY:HA3	31:39:95:ARG:O	2.13	0.48
32:49:170:ARG:NH2	32:49:180:PHE:HB2	2.28	0.48
38:45:21:THR:HG22	38:45:24:GLY:H	1.79	0.48
43:95:58:VAL:HB	43:95:98:GLU:HG3	1.95	0.48
46:C5:91:GLU:HG3	46:C5:92:ASN:N	2.28	0.48
1:13:243:A:H4'	1:13:244:U:H3'	1.96	0.48
1:13:851:G:H2'	1:13:852:G:C8	2.48	0.48
1:13:973:G:OP1	10:1I:57:LYS:HD3	2.13	0.48
1:13:1150:U:O4	1:13:1151:A:N6	2.47	0.48
1:13:1276:G:H2'	1:13:1277:C:C6	2.48	0.48
1:13:1348:U:C2	1:13:1349:A:C8	3.00	0.48
2:1E:133:LYS:HD2	2:1E:134:GLU:H	1.79	0.48
3:2E:155:GLY:O	3:2E:157:ILE:HG13	2.13	0.48
4:3E:128:VAL:HB	4:3E:133:VAL:HG21	1.94	0.48
5:4E:36:ASP:OD1	5:4E:38:GLN:N	2.47	0.48
5:4E:74:GLY:O	5:4E:115:VAL:HA	2.14	0.48
13:4I:106:ASN:O	13:4I:106:ASN:ND2	2.46	0.48
14:5I:24:CYS:HB2	14:5I:40:CYS:HB3	1.95	0.48
15:6I:41:GLU:OE2	15:6I:41:GLU:N	2.47	0.48
16:7I:11:SER:HB2	16:7I:14:ASN:HB3	1.96	0.48
17:8I:40:LYS:HG2	17:8I:41:LYS:N	2.29	0.48
26:1H:195:A:N7	26:1H:197:A:OP1	2.47	0.48
26:1H:910:A:C6	26:1H:911:A:C6	3.01	0.48
26:1H:1166:C:O2	26:1H:1184:G:C2	2.67	0.48
26:1H:1257:C:H4'	31:3I:83:PHE:HD1	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1642:G:O2'	26:1H:1643:G:H5'	2.14	0.48
26:1H:1833:U:H2'	26:1H:1834:U:H6	1.78	0.48
26:1H:2151:G:H2'	26:1H:2152:G:C8	2.49	0.48
26:1H:2263:C:H41	48:I8:15:ASP:HA	1.78	0.48
26:1H:2479:G:O5'	26:1H:2479:G:H8	1.97	0.48
26:1H:2678:C:H2'	26:1H:2679:A:O4'	2.14	0.48
26:1H:2865:U:H5''	26:1H:2866:U:H2'	1.96	0.48
29:11:9:TYR:CZ	29:11:13:ARG:HG2	2.49	0.48
32:41:49:ASP:OD1	32:41:51:ARG:HG3	2.14	0.48
35:58:55:VAL:HB	35:58:126:PRO:HA	1.94	0.48
35:58:67:LEU:HA	35:58:87:LEU:HD12	1.96	0.48
37:78:59:LEU:HD21	55:Q8:10:ALA:HB2	1.95	0.48
46:G8:10:GLY:O	46:G8:26:LYS:NZ	2.41	0.48
1:1G:224:C:H2'	1:1G:225:C:C6	2.49	0.48
1:1G:1004:A:N1	1:1G:1006:C:H1'	2.29	0.48
1:1G:1259:C:N4	1:1G:1260:C:O2	2.47	0.48
1:1G:1300:G:O2'	1:1G:1301:U:O5'	2.31	0.48
15:6A:67:LEU:HB3	15:6A:78:TYR:HE2	1.79	0.48
26:14:581:C:H2'	26:14:582:G:H8	1.78	0.48
26:14:1225:C:H4'	43:95:85:LYS:CG	2.44	0.48
26:14:1906:G:N2	26:14:1925:C:O2	2.47	0.48
26:14:2533:A:O5'	26:14:2533:A:H8	1.97	0.48
27:1J:42:C:N4	27:1J:43:C:C4	2.82	0.48
27:1J:44:G:H1'	27:1J:47:C:N4	2.29	0.48
35:15:103:VAL:HG12	35:15:107:LEU:HD11	1.96	0.48
40:65:55:ALA:HA	40:65:57:LYS:NZ	2.29	0.48
43:95:76:LYS:HD2	43:95:80:GLN:O	2.14	0.48
46:C5:76:CYS:SG	46:C5:97:ARG:HG3	2.53	0.48
47:D5:27:VAL:O	47:D5:88:PHE:HB2	2.14	0.48
1:13:985:C:C2	1:13:1221:G:N2	2.81	0.48
1:13:1285:A:O5'	1:13:1285:A:C8	2.61	0.48
1:13:1432:G:OP1	41:B8:107:ASP:HB2	2.13	0.48
2:1E:45:GLN:O	2:1E:49:GLU:HG2	2.14	0.48
4:3E:47:ARG:HG3	4:3E:47:ARG:O	2.14	0.48
4:3E:162:LEU:HD12	4:3E:181:MET:CE	2.44	0.48
9:8E:92:TYR:O	9:8E:96:LEU:HB2	2.14	0.48
10:1I:40:LEU:HB3	10:1I:41:PRO:HD2	1.95	0.48
22:1K:12:U:O4	22:1K:25:C:N4	2.46	0.48
26:1H:321:G:O4'	31:31:165:ARG:HD3	2.14	0.48
26:1H:2266:A:H4'	26:1H:2267:A:C4	2.49	0.48
26:1H:2392:A:OP2	55:Q8:31:HIS:ND1	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:11:43:ARG:HG2	29:11:43:ARG:HH11	1.79	0.48
30:21:105:THR:HG21	30:21:164:ARG:NH1	2.29	0.48
32:41:111:LEU:HD22	32:41:117:PHE:CZ	2.49	0.48
33:51:136:ILE:HG22	33:51:136:ILE:O	2.13	0.48
46:G8:89:PHE:CD1	46:G8:90:LEU:N	2.81	0.48
47:H8:58:VAL:O	47:H8:59:LEU:HB2	2.13	0.48
47:H8:125:LEU:HG	47:H8:164:ALA:CB	2.43	0.48
1:1G:828:A:C2	1:1G:859:A:O4'	2.67	0.48
1:1G:1016:A:O5'	14:5A:15:LYS:NZ	2.47	0.48
2:12:74:LYS:HE3	2:12:169:LYS:HD2	1.95	0.48
3:22:58:GLU:O	3:22:65:ALA:N	2.42	0.48
3:22:147:LYS:HB2	3:22:203:PHE:CD1	2.48	0.48
4:32:31:CYS:O	59:32:302:SF4:S4	2.72	0.48
10:1A:54:PHE:O	10:1A:55:LYS:HG3	2.13	0.48
11:2A:100:ALA:C	11:2A:102:GLY:H	2.22	0.48
57:3L:13:C:H2'	57:3L:14:A:N7	2.28	0.48
26:14:270(F):U:H2'	26:14:270(G):C:C6	2.48	0.48
26:14:361:G:H2'	26:14:362:U:O2	2.13	0.48
26:14:1161:C:H2'	26:14:1162:G:H8	1.79	0.48
26:14:2037:G:H2'	26:14:2038:G:C8	2.49	0.48
26:14:2143:C:N3	26:14:2144:U:H1'	2.29	0.48
26:14:2637:U:C4	26:14:2638:G:C6	3.01	0.48
27:1J:63:G:C2	27:1J:64:C:C2	3.02	0.48
29:19:181:GLU:HG3	29:19:272:ALA:CB	2.43	0.48
31:39:170:LEU:HD22	31:39:172:TRP:HE1	1.79	0.48
42:85:92:ARG:HD2	43:95:11:GLN:HB2	1.96	0.48
1:13:192:U:H1'	20:BI:103:GLY:HA2	1.96	0.47
1:13:280:C:H4'	1:13:281:G:OP2	2.13	0.47
1:13:1051:C:H2'	1:13:1052:U:C6	2.49	0.47
2:1E:27:LYS:NZ	2:1E:195:ASP:HB2	2.29	0.47
3:2E:16:ARG:HH22	3:2E:183:ASP:HA	1.79	0.47
12:3I:117:ARG:O	12:3I:119:LYS:O	2.32	0.47
15:6I:32:LEU:O	15:6I:33:THR:C	2.54	0.47
26:1H:55:G:N3	26:1H:56:A:C8	2.82	0.47
26:1H:189:G:OP2	49:J8:14:VAL:HG21	2.14	0.47
26:1H:996:A:H4'	42:C8:92:ARG:CG	2.43	0.47
26:1H:1155:A:O2'	26:1H:1156:A:H2'	2.14	0.47
26:1H:1567:A:C5'	29:11:58:HIS:ND1	2.77	0.47
26:1H:2843:G:O2'	26:1H:2844:G:H5'	2.14	0.47
29:11:30:GLU:CD	29:11:63:ARG:HH21	2.22	0.47
29:11:96:HIS:CD2	29:11:102:LYS:HE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:58:127:ASP:O	35:58:128:HIS:HB3	2.13	0.47
38:88:55:VAL:HG12	38:88:64:ILE:HD12	1.95	0.47
44:E8:73:ALA:O	44:E8:74:ALA:HB2	2.13	0.47
48:I8:41:ARG:HA	48:I8:41:ARG:HE	1.79	0.47
49:J8:18:ILE:HG12	49:J8:37:ILE:HG12	1.96	0.47
52:M8:40:HIS:ND1	52:M8:40:HIS:O	2.46	0.47
1:1G:99:C:H2'	1:1G:101:A:C8	2.49	0.47
1:1G:468:A:N6	1:1G:474:G:N3	2.62	0.47
1:1G:929:G:H1	1:1G:1388:C:N4	2.11	0.47
1:1G:1190:G:P	3:22:5:ILE:HG13	2.55	0.47
1:1G:1329:A:P	13:4A:28:ALA:HB3	2.54	0.47
2:12:130:ARG:HB2	2:12:135:GLN:HE21	1.79	0.47
2:12:178:ARG:HD2	2:12:184:VAL:HG21	1.96	0.47
17:8A:88:TYR:CA	17:8A:91:ARG:HD2	2.42	0.47
20:BA:54:LYS:HA	20:BA:57:ARG:NH2	2.28	0.47
23:2L:32:G:H5''	23:2L:33:OMC:OP2	2.14	0.47
57:3L:44:U:O4	57:3L:45:G:C5	2.66	0.47
26:14:275:G:O6	26:14:363:G:C5	2.67	0.47
26:14:363(C):G:H2'	26:14:363(D):G:H8	1.79	0.47
26:14:566:U:OP1	37:35:29:LYS:HD2	2.14	0.47
26:14:574:C:H1'	26:14:2055:C:C6	2.49	0.47
26:14:675:A:OP1	31:39:63:LYS:HE2	2.14	0.47
26:14:952:G:C6	26:14:966:G:C6	3.02	0.47
26:14:962:G:C2	26:14:963:U:C2	3.02	0.47
26:14:996:A:H4'	42:85:92:ARG:CZ	2.44	0.47
26:14:1225:C:O2'	43:95:85:LYS:N	2.36	0.47
26:14:1337:G:H2'	26:14:1338:G:H8	1.79	0.47
26:14:2483:C:O2	38:45:124:LYS:HE3	2.14	0.47
26:14:2698:U:H2'	26:14:2699:C:C6	2.49	0.47
27:1J:2:C:H2'	27:1J:3:C:C6	2.48	0.47
27:1J:48:A:H4'	40:65:95:HIS:HD1	1.77	0.47
30:29:31:CYS:HB2	30:29:91:VAL:HG22	1.96	0.47
36:25:102:VAL:HB	36:25:106:LEU:HD12	1.96	0.47
39:55:30:THR:HG22	39:55:31:HIS:ND1	2.28	0.47
1:13:292:G:N7	1:13:293:G:H1'	2.29	0.47
1:13:604:G:H2'	1:13:605:U:O4'	2.14	0.47
1:13:749:C:H2'	1:13:750:G:C8	2.47	0.47
1:13:1455:G:H5'	20:BI:32:ALA:HB2	1.95	0.47
2:1E:178:ARG:NH1	2:1E:196:LEU:O	2.42	0.47
4:3E:101:LEU:O	4:3E:105:VAL:HG23	2.14	0.47
5:4E:145:LYS:HD3	5:4E:146:ALA:N	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4I:84:ILE:HG13	19:AI:66:MET:HE2	1.95	0.47
15:6I:15:PHE:CD1	15:6I:84:LYS:HE2	2.49	0.47
26:1H:311:A:C2	26:1H:331:A:H5''	2.44	0.47
26:1H:571:A:H5'	26:1H:2030:A:N7	2.29	0.47
26:1H:1429:G:C2'	26:1H:1430:C:H5'	2.44	0.47
26:1H:1743:G:C2	26:1H:1746:G:C8	3.01	0.47
26:1H:2116:G:H21	26:1H:2117:A:H62	1.61	0.47
26:1H:2801:A:H2'	26:1H:2802:G:O4'	2.13	0.47
29:11:106:ILE:O	29:11:108:PRO:HD3	2.14	0.47
30:21:84:PHE:CZ	30:21:86:PRO:HB3	2.48	0.47
38:88:59:ARG:C	38:88:61:GLY:N	2.72	0.47
39:98:55:ALA:HA	39:98:80:PHE:CE2	2.48	0.47
43:D8:59:ALA:HB2	43:D8:96:ILE:HD13	1.96	0.47
45:F8:23:GLU:H	45:F8:23:GLU:HG2	1.50	0.47
46:G8:33:LYS:HD3	46:G8:33:LYS:H	1.78	0.47
49:J8:60:PHE:HE2	49:J8:91:LYS:HZ1	1.61	0.47
1:1G:114:U:H2'	1:1G:115:G:H8	1.72	0.47
1:1G:382:A:H2'	1:1G:383:A:H8	1.76	0.47
1:1G:447:G:H2'	1:1G:485:G:N2	2.29	0.47
1:1G:591:U:H2'	1:1G:592:G:C8	2.49	0.47
1:1G:683:G:N2	1:1G:707:C:O2	2.41	0.47
1:1G:1056:U:OP1	3:22:163:ALA:HB3	2.13	0.47
1:1G:1321:C:H3'	1:1G:1322:C:H5''	1.95	0.47
1:1G:1357:A:H4'	10:1A:47:PHE:CZ	2.49	0.47
2:12:147:LYS:HD2	2:12:148:TYR:CZ	2.49	0.47
5:42:9:LYS:HB3	5:42:112:LEU:HD11	1.97	0.47
16:7A:18:ARG:HA	16:7A:38:TYR:HA	1.96	0.47
18:9A:32:ARG:HA	18:9A:69:THR:HG21	1.95	0.47
18:9A:66:LEU:O	18:9A:70:ILE:HG13	2.14	0.47
56:1L:43:U:H5	56:1L:44:U:C2	2.32	0.47
56:1L:51:A:H2'	56:1L:52:G:H8	1.78	0.47
56:1L:54:5MU:OP2	56:1L:54:5MU:H73	2.14	0.47
23:2L:16:C:O2'	23:2L:62:C:OP1	2.24	0.47
23:2L:48:U:H1'	23:2L:49:C:P	2.53	0.47
26:14:182:A:N3	26:14:433:C:O2'	2.43	0.47
26:14:322:A:H3'	31:39:169:ASN:OD1	2.13	0.47
26:14:335:C:H2'	26:14:336:C:C6	2.49	0.47
26:14:521:G:H2'	26:14:522:G:H8	1.79	0.47
26:14:535:C:O2'	26:14:536:A:H5'	2.13	0.47
26:14:649:G:C6	26:14:650:C:C4	3.02	0.47
26:14:995:C:C6	42:85:57:PHE:CE2	3.01	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1062:G:N7	26:14:1071:G:O2'	2.45	0.47
26:14:1570:A:H2'	26:14:1571:A:C8	2.49	0.47
26:14:2155:G:O6	26:14:2156:G:N1	2.47	0.47
26:14:2636:U:O2'	30:29:44:TYR:CZ	2.67	0.47
37:35:124:LYS:HB3	37:35:145:PRO:HD3	1.96	0.47
39:55:38:VAL:HG12	39:55:42:LYS:HD2	1.96	0.47
45:B5:29:TRP:HA	45:B5:29:TRP:CE3	2.48	0.47
46:C5:89:PHE:O	46:C5:89:PHE:CG	2.67	0.47
55:M5:31:HIS:CD2	55:M5:32:LEU:HB2	2.49	0.47
1:13:42:G:O2'	1:13:622:A:N1	2.40	0.47
1:13:625:G:C4'	16:7I:16:HIS:HD1	2.27	0.47
1:13:673:G:H5''	6:5E:87:ARG:NH1	2.29	0.47
1:13:1003:G:O3'	1:13:1004:A:H4'	2.14	0.47
1:13:1142:G:H2'	1:13:1143:G:O4'	2.14	0.47
1:13:1216:G:H8	1:13:1216:G:O5'	1.97	0.47
2:1E:105:PHE:CZ	2:1E:156:LYS:HA	2.49	0.47
9:8E:10:ARG:CZ	9:8E:11:LYS:HE2	2.45	0.47
10:1I:7:LYS:O	10:1I:8:LEU:HD23	2.14	0.47
11:2I:107:SER:O	11:2I:108:ILE:HG13	2.14	0.47
13:4I:99:ARG:O	13:4I:101:GLN:HG3	2.14	0.47
18:9I:58:LEU:HG	18:9I:62:GLU:CB	2.44	0.47
19:AI:5:LEU:HB3	19:AI:10:PHE:CE1	2.49	0.47
19:AI:52:TYR:HA	19:AI:56:GLN:O	2.13	0.47
26:1H:242:G:C8	55:Q8:3:LYS:HE3	2.49	0.47
26:1H:1208:C:C4	26:1H:1209:G:N7	2.82	0.47
26:1H:1682:G:C6	26:1H:1683:C:N3	2.82	0.47
26:1H:2001:A:H2'	26:1H:2002:G:O4'	2.13	0.47
26:1H:2352:A:C4	26:1H:2366:A:C2	3.02	0.47
26:1H:2636:U:P	30:21:79:ARG:HA	2.54	0.47
28:71:23:ASP:CG	28:71:190:ARG:HH12	2.21	0.47
28:71:213:TYR:HA	28:71:223:ARG:HA	1.94	0.47
31:31:177:ALA:HB1	31:31:178:PRO:HD2	1.96	0.47
37:78:147:LEU:HD12	37:78:147:LEU:N	2.29	0.47
39:98:4:LEU:HA	39:98:4:LEU:HD23	1.47	0.47
39:98:25:ALA:O	39:98:26:LYS:C	2.55	0.47
45:F8:34:ALA:HA	45:F8:38:GLU:OE1	2.14	0.47
1:1G:41:G:H2'	1:1G:42:G:C8	2.49	0.47
1:1G:1057:G:H5''	3:22:154:SER:OG	2.14	0.47
1:1G:1126:U:H1'	1:1G:1127:G:P	2.54	0.47
1:1G:1166:G:H1'	1:1G:1171:G:N2	2.29	0.47
1:1G:1232:U:H2'	1:1G:1233:G:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1442:G:H1	1:1G:1461:G:H21	1.61	0.47
2:12:53:ARG:HB3	2:12:57:PHE:CZ	2.50	0.47
8:72:86:ILE:HD12	8:72:133:LEU:HD22	1.96	0.47
26:14:593:G:H1	26:14:664:C:H42	1.62	0.47
26:14:1262:A:P	44:A5:99:ARG:HH12	2.37	0.47
26:14:1443:G:N2	26:14:1549:C:C2	2.82	0.47
26:14:2418:A:OP2	55:M5:29:LYS:NZ	2.43	0.47
26:14:2482:G:H2'	26:14:2483:C:O4'	2.14	0.47
26:14:2747:G:O3'	33:59:70:THR:HG21	2.14	0.47
26:14:2786:U:O2'	30:29:63:LEU:N	2.46	0.47
30:29:35:GLN:HE21	30:29:41:LYS:HZ3	1.63	0.47
31:39:114:VAL:HG21	31:39:202:PHE:CZ	2.50	0.47
32:49:76:SER:HG	32:49:84:LYS:H	1.60	0.47
34:69:61:ARG:O	34:69:65:ALA:N	2.48	0.47
34:69:101:LEU:HB2	34:69:105:HIS:HB2	1.97	0.47
34:69:129:THR:HA	34:69:137:PRO:HA	1.96	0.47
41:75:99:LEU:HD22	41:75:101:PHE:HE1	1.79	0.47
46:C5:18:GLY:O	46:C5:20:TYR:N	2.48	0.47
48:E5:24:LYS:N	48:E5:37:LEU:O	2.31	0.47
49:F5:86:SER:N	49:F5:87:PRO:HD2	2.29	0.47
1:13:11:G:C6	1:13:12:U:C5	3.03	0.47
1:13:49:U:O2'	1:13:50:A:OP1	2.27	0.47
1:13:136:C:H42	1:13:227:G:H1	1.63	0.47
1:13:692:U:H2'	1:13:693:G:H3'	1.97	0.47
1:13:881:G:P	12:3I:12:ARG:NH2	2.87	0.47
1:13:947:G:H2'	1:13:948:C:H6	1.77	0.47
1:13:954:G:H2'	1:13:955:U:C6	2.49	0.47
1:13:967:C:O5'	1:13:967:C:H6	1.97	0.47
1:13:1225:A:H2'	1:13:1225:A:N3	2.29	0.47
1:13:1274:G:H2'	1:13:1275:A:H8	1.78	0.47
2:1E:70:PHE:H	2:1E:92:TYR:HA	1.79	0.47
2:1E:73:THR:HA	2:1E:96:ARG:HH22	1.77	0.47
3:2E:47:LEU:HD12	3:2E:76:VAL:HG12	1.95	0.47
5:4E:93:PRO:HG2	8:7E:105:ARG:HD2	1.96	0.47
5:4E:126:ARG:HH11	5:4E:126:ARG:CG	2.26	0.47
6:5E:20:ALA:HA	6:5E:23:LYS:HB3	1.97	0.47
13:4I:34:LEU:HD13	13:4I:41:PRO:HB3	1.97	0.47
13:4I:60:VAL:HG13	13:4I:64:TRP:HE1	1.79	0.47
26:1H:65:C:H5'	45:F8:71:GLY:HA3	1.96	0.47
26:1H:625:G:O6	37:78:107:LYS:NZ	2.44	0.47
26:1H:677:A:H2'	26:1H:677:A:N3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:907:U:C4'	38:88:101:ARG:HH22	2.28	0.47
26:1H:1133:U:O2	26:1H:1137:G:H5''	2.14	0.47
26:1H:1778:U:H2'	26:1H:1784:A:H62	1.79	0.47
26:1H:1901:A:OP2	26:1H:1901:A:H4'	2.14	0.47
26:1H:1903:G:OP1	29:11:241:PRO:HB2	2.14	0.47
26:1H:2048:G:C6	26:1H:2049:G:C5	3.03	0.47
26:1H:2556:C:H2'	26:1H:2557:G:O4'	2.14	0.47
26:1H:2579:C:C4	26:1H:2580:U:C5	3.02	0.47
30:21:169:ASN:CA	30:21:201:THR:HG21	2.39	0.47
31:31:39:TRP:O	31:31:43:LYS:HG2	2.15	0.47
31:31:201:VAL:O	31:31:205:ARG:N	2.45	0.47
32:41:178:PHE:O	32:41:180:PHE:HD2	1.96	0.47
39:98:41:ALA:O	39:98:42:LYS:C	2.57	0.47
1:1G:108:G:P	1:1G:326:G:H22	2.37	0.47
1:1G:138:G:C2	1:1G:226:G:C2	3.03	0.47
1:1G:537:G:H5''	12:3A:113:ARG:NH1	2.29	0.47
1:1G:667:G:H8	1:1G:667:G:O5'	1.98	0.47
1:1G:837:G:C2	1:1G:838:G:H1'	2.49	0.47
1:1G:1017:G:H2'	1:1G:1018:C:C5	2.49	0.47
1:1G:1095:U:OP1	1:1G:1108:G:C2	2.67	0.47
1:1G:1385:G:C2	1:1G:1386:G:C8	3.03	0.47
2:12:97:TRP:CZ3	2:12:99:GLY:HA2	2.45	0.47
9:82:78:LYS:HD3	9:82:79:LEU:HB2	1.95	0.47
56:1L:73:A:H5'	56:1L:74:C:OP1	2.14	0.47
26:14:278:A:OP2	26:14:278:A:H2'	2.14	0.47
26:14:722:A:H3'	26:14:723:G:C8	2.49	0.47
26:14:847:U:H5'	26:14:848:G:OP2	2.14	0.47
26:14:1431:U:H2'	26:14:1432:C:C6	2.49	0.47
26:14:1486:A:H2'	26:14:1487:G:H8	1.78	0.47
26:14:1925:C:C2'	26:14:1926:U:H5'	2.44	0.47
26:14:2355:C:H5''	26:14:2356:C:OP2	2.13	0.47
26:14:2674:G:H4'	36:25:30:ALA:HB2	1.96	0.47
26:14:2781:A:H5''	26:14:2782:G:H5'	1.96	0.47
31:39:83:PHE:O	31:39:84:VAL:HB	2.13	0.47
31:39:123:LEU:HA	31:39:192:LEU:C	2.40	0.47
32:49:56:ALA:HA	32:49:59:GLU:HB3	1.97	0.47
33:59:56:SER:O	33:59:61:HIS:HB2	2.13	0.47
35:15:93:THR:O	35:15:94:HIS:C	2.57	0.47
38:45:116:GLU:OE2	38:45:119:ARG:NE	2.42	0.47
39:55:101:ALA:HB2	53:J5:44:THR:HB	1.97	0.47
1:13:35:G:O2'	12:3I:118:SER:O	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:310:G:OP2	16:7I:27:LYS:NZ	2.33	0.47
1:13:468:A:H3'	1:13:474:G:C8	2.50	0.47
1:13:1113:C:O2'	1:13:1114:C:H5'	2.14	0.47
1:13:1347:G:H22	1:13:1373:G:H2'	1.78	0.47
1:13:1442:G:H1	1:13:1461:G:H21	1.63	0.47
3:2E:58:GLU:HB2	3:2E:65:ALA:CB	2.39	0.47
5:4E:82:VAL:HG11	5:4E:137:GLU:HB2	1.97	0.47
10:1I:63:PHE:HE1	14:5I:58:LYS:HG2	1.79	0.47
26:1H:6:A:H1'	35:58:131:GLN:HB3	1.96	0.47
26:1H:8:A:O5'	26:1H:8:A:H8	1.97	0.47
26:1H:445:C:OP1	42:C8:2:PRO:HA	2.13	0.47
26:1H:618:G:H2'	26:1H:618(A):C:H6	1.79	0.47
26:1H:743:G:O3'	61:1H:3556:HOH:O	2.19	0.47
26:1H:747:U:O2	26:1H:2014:A:H1'	2.15	0.47
26:1H:996:A:C6	26:1H:1160:G:C2	3.02	0.47
26:1H:1466:G:H2'	26:1H:1547:C:N4	2.29	0.47
26:1H:1678:G:N2	26:1H:1989:G:N2	2.63	0.47
26:1H:2024:G:H2'	26:1H:2025:C:C6	2.49	0.47
26:1H:2052:G:H4'	30:21:143:ASN:O	2.15	0.47
26:1H:2683:C:O2	36:68:70:LYS:NZ	2.45	0.47
28:71:62:VAL:HG12	28:71:163:PHE:CE1	2.48	0.47
29:11:43:ARG:HD2	29:11:43:ARG:N	2.30	0.47
30:21:33:VAL:HG12	30:21:89:ASP:HA	1.97	0.47
31:31:138:GLU:O	31:31:139:PHE:C	2.56	0.47
32:41:170:ARG:NH2	32:41:180:PHE:HB3	2.21	0.47
34:61:68:LEU:CA	34:61:71:ILE:HG22	2.39	0.47
36:68:2:ILE:HG22	36:68:3:GLN:N	2.29	0.47
36:68:50:GLY:O	36:68:53:LYS:NZ	2.48	0.47
40:A8:61:ASN:ND2	40:A8:61:ASN:C	2.72	0.47
40:A8:66:ALA:HA	40:A8:69:VAL:CG1	2.41	0.47
45:F8:55:ASN:HB2	45:F8:80:ILE:HG23	1.96	0.47
55:Q8:46:ARG:HB2	55:Q8:47:LYS:HB2	1.96	0.47
1:1G:1086:U:H2'	1:1G:1087:G:O4'	2.14	0.47
1:1G:1315:U:C2'	1:1G:1316:G:H5'	2.45	0.47
2:12:19:HIS:NE2	2:12:204:ASN:HB3	2.30	0.47
12:3A:20:LYS:HD2	12:3A:20:LYS:C	2.40	0.47
56:1L:29:U:H3	56:1L:41:A:H61	1.62	0.47
26:14:841:A:H61	26:14:937:U:H3	1.62	0.47
26:14:896:A:H5'	26:14:897:C:C6	2.50	0.47
26:14:1012:U:O4	35:15:25:ARG:HA	2.14	0.47
26:14:2494:G:C5	26:14:2495:G:N7	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2516:G:C6	26:14:2517:C:N4	2.82	0.47
26:14:2889:C:H3'	26:14:2891:G:C8	2.49	0.47
30:29:55:ASN:HB2	30:29:58:ARG:NH2	2.28	0.47
31:39:9:ILE:O	31:39:128:ALA:HB2	2.14	0.47
36:25:68:GLU:H	36:25:68:GLU:CD	2.23	0.47
39:55:33:ARG:HD3	39:55:113:LEU:HD11	1.96	0.47
47:D5:93:ASP:H	47:D5:130:PRO:HG2	1.79	0.47
47:D5:158:PRO:CG	47:D5:161:VAL:HG22	2.43	0.47
53:J5:41:PRO:HG2	53:J5:44:THR:OG1	2.14	0.47
53:J5:45:VAL:HG22	53:J5:51:TYR:CD2	2.49	0.47
1:13:15:G:H4'	5:4E:24:ARG:NH1	2.30	0.47
1:13:321:A:C2	1:13:333:G:N2	2.83	0.47
1:13:622:A:H3'	1:13:623:C:C6	2.49	0.47
1:13:665:A:N3	1:13:732:C:H2'	2.30	0.47
1:13:806:C:H2'	1:13:807:A:H8	1.79	0.47
1:13:1060:C:O2'	10:1I:56:HIS:ND1	2.47	0.47
1:13:1163:C:H2'	1:13:1164:G:H8	1.80	0.47
1:13:1181:G:O2'	1:13:1184:G:H5'	2.14	0.47
1:13:1315:U:H2'	1:13:1316:G:O4'	2.14	0.47
4:3E:101:LEU:HB2	4:3E:138:TYR:HB3	1.97	0.47
11:2I:73:MET:HE1	11:2I:102:GLY:HA3	1.96	0.47
22:1K:44:U:H3'	22:1K:48:C:N4	2.30	0.47
24:3K:27:G:N1	24:3K:43:U:O4	2.41	0.47
26:1H:1178:C:H4'	26:1H:1179:C:OP1	2.14	0.47
26:1H:1346:G:H2'	26:1H:1347:G:H8	1.79	0.47
26:1H:1486:A:O2'	26:1H:1487:G:H5'	2.14	0.47
26:1H:1753:G:H2'	26:1H:1755:A:OP2	2.13	0.47
26:1H:2128:C:H2'	26:1H:2129:C:C6	2.50	0.47
26:1H:2428:G:H21	37:78:61:ARG:HH12	1.62	0.47
26:1H:2795:G:N1	26:1H:2802:G:N7	2.62	0.47
27:16:55:U:H2'	27:16:56:G:H8	1.80	0.47
27:16:66:A:C2	27:16:108:C:C5	3.01	0.47
28:71:13:LYS:HD3	28:71:13:LYS:HA	1.67	0.47
33:51:67:LEU:O	33:51:71:LEU:HD13	2.15	0.47
34:61:71:ILE:HG23	34:61:72:LEU:HD13	1.96	0.47
35:58:4:TYR:CE2	42:C8:100:VAL:HG11	2.49	0.47
35:58:40:PRO:HB3	42:C8:68:ALA:HB2	1.97	0.47
35:58:73:THR:HG22	35:58:84:LYS:HG2	1.96	0.47
42:C8:14:HIS:O	42:C8:18:LEU:HD12	2.15	0.47
46:G8:87:LYS:HD3	46:G8:88:LYS:H	1.80	0.47
55:Q8:40:GLU:O	55:Q8:43:GLN:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:176:C:H2'	1:1G:177:C:H6	1.80	0.47
1:1G:410:G:H21	1:1G:432:A:H62	1.61	0.47
1:1G:519:C:H2'	1:1G:520:A:O4'	2.15	0.47
1:1G:574:A:HO2'	1:1G:882:C:HO2'	1.63	0.47
1:1G:854:G:H3'	1:1G:871:U:O4	2.14	0.47
1:1G:1184:G:P	1:1G:1184:G:H8	2.38	0.47
1:1G:1255:G:N2	1:1G:1283:G:H1'	2.28	0.47
3:22:47:LEU:HD23	3:22:68:VAL:HG11	1.95	0.47
3:22:72:LYS:NZ	3:22:75:VAL:HG23	2.29	0.47
11:2A:16:SER:HA	11:2A:79:SER:O	2.14	0.47
57:3L:68:G:N2	57:3L:69:A:C4	2.83	0.47
26:14:282:A:C6	26:14:284:U:C2	3.02	0.47
26:14:928:G:N7	61:14:3566:HOH:O	2.35	0.47
26:14:1024:G:C8	26:14:1025:G:H2'	2.48	0.47
26:14:1310:G:H1	26:14:1604:C:N4	2.08	0.47
26:14:1420:U:HO2'	26:14:1421:G:P	2.37	0.47
26:14:1454:U:OP1	39:55:77:ARG:HD3	2.13	0.47
26:14:2199:A:C8	26:14:2205:C:C5	3.02	0.47
26:14:2631:G:O6	26:14:2632:A:N6	2.48	0.47
30:29:105:THR:HG21	30:29:164:ARG:HE	1.79	0.47
30:29:117:MET:HA	30:29:122:PHE:N	2.30	0.47
32:49:115:ARG:NH2	32:49:137:GLU:OE2	2.48	0.47
36:25:68:GLU:OE2	36:25:78:ARG:NH1	2.48	0.47
41:75:107:ASP:OD2	41:75:109:GLU:HB2	2.15	0.47
1:13:123:C:OP1	1:13:311:C:O2'	2.32	0.47
1:13:233:C:H2'	1:13:234:C:C6	2.44	0.47
1:13:590:C:H2'	1:13:591:U:H6	1.80	0.47
1:13:936:C:H2'	1:13:937:A:H5'	1.96	0.47
1:13:953:G:C6	1:13:954:G:C4	3.03	0.47
1:13:1011:G:H2'	1:13:1012:U:O4'	2.15	0.47
1:13:1178:G:H2'	1:13:1180:A:OP2	2.14	0.47
1:13:1412:C:C2	1:13:1489:G:N2	2.83	0.47
3:2E:18:TRP:NE1	14:5I:55:GLY:N	2.63	0.47
5:4E:148:VAL:O	5:4E:151:LEU:HB2	2.14	0.47
6:5E:69:GLU:O	6:5E:72:VAL:HG12	2.14	0.47
6:5E:96:PRO:HB3	18:9I:30:ASP:CG	2.40	0.47
8:7E:133:LEU:HD23	8:7E:134:ILE:N	2.29	0.47
9:8E:53:VAL:HG21	9:8E:92:TYR:CD2	2.49	0.47
11:2I:17:GLY:O	11:2I:80:VAL:HA	2.15	0.47
12:3I:110:VAL:HG21	12:3I:120:TYR:HB3	1.97	0.47
15:6I:18:PHE:CZ	15:6I:21:ASP:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:7I:21:VAL:HG23	16:7I:34:GLU:H	1.79	0.47
18:9I:34:TYR:HA	18:9I:69:THR:HG23	1.96	0.47
24:3K:48:C:C5	24:3K:59:A:H1'	2.49	0.47
25:4K:13:A:H2'	25:4K:14:A:O4'	2.14	0.47
26:1H:247:G:H4'	26:1H:386:G:C5	2.49	0.47
26:1H:340:A:H2'	26:1H:341:G:O4'	2.14	0.47
26:1H:705:A:H5''	26:1H:706:A:OP2	2.15	0.47
26:1H:784:A:N6	29:11:229:VAL:HG11	2.29	0.47
26:1H:880:G:O2'	26:1H:881:G:OP1	2.31	0.47
26:1H:919:G:H4'	27:16:81:G:H4'	1.96	0.47
26:1H:993:G:H2'	26:1H:994:C:C6	2.50	0.47
26:1H:1018:C:C2'	26:1H:1019:U:H5'	2.45	0.47
26:1H:1260:G:H2'	26:1H:1261:C:H6	1.79	0.47
26:1H:1449(A):G:H2'	26:1H:1450:C:C6	2.50	0.47
26:1H:1523:U:C2	26:1H:1524:G:C8	3.02	0.47
26:1H:1817:G:C6	26:1H:1818:U:C4	3.02	0.47
26:1H:2118:U:O4'	26:1H:2147:G:N2	2.48	0.47
26:1H:2182:G:H2'	26:1H:2183:C:O4'	2.14	0.47
26:1H:2572:A:N7	30:21:144:ARG:HD2	2.29	0.47
26:1H:2835:A:C5	26:1H:2878:U:C5	3.02	0.47
27:16:14:U:O3'	27:16:107:U:O2'	2.29	0.47
29:11:26:LYS:HB2	29:11:83:GLU:HG2	1.96	0.47
29:11:92:ILE:HD12	29:11:104:TYR:CE1	2.50	0.47
29:11:226:MET:HB3	29:11:230:ASP:HB2	1.96	0.47
30:21:61:ARG:O	30:21:63:LEU:HD22	2.15	0.47
30:21:102:VAL:C	30:21:201:THR:HG23	2.39	0.47
31:31:47:GLY:HA3	31:31:95:ARG:O	2.14	0.47
31:31:178:PRO:HG2	31:31:179:GLU:OE1	2.15	0.47
31:31:199:TRP:CD1	31:31:199:TRP:C	2.93	0.47
32:41:113:ARG:NE	52:M8:34:GLU:OE1	2.33	0.47
34:61:1:MET:HB3	34:61:21:VAL:O	2.14	0.47
34:61:75:LEU:HD21	34:61:105:HIS:ND1	2.30	0.47
37:78:19:VAL:CG2	37:78:20:GLY:HA3	2.44	0.47
37:78:84:ASN:ND2	37:78:115:LEU:HD12	2.30	0.47
39:98:44:LEU:HD21	39:98:48:VAL:HG13	1.96	0.47
46:G8:82:PRO:HG3	46:G8:97:ARG:HB3	1.96	0.47
47:H8:4:ARG:HD3	47:H8:60:GLU:OE2	2.15	0.47
48:I8:11:ARG:O	48:I8:14:ARG:NH2	2.48	0.47
55:Q8:29:LYS:O	55:Q8:30:ARG:CG	2.63	0.47
1:1G:321:A:C2	1:1G:333:G:C2	3.03	0.47
1:1G:500:G:H2'	1:1G:501:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:582:U:C2	1:1G:760:G:C6	3.03	0.47
1:1G:624:C:O3'	16:7A:10:GLY:HA2	2.14	0.47
1:1G:859:A:H2'	1:1G:860:A:O4'	2.15	0.47
1:1G:1043:C:H2'	1:1G:1044:A:H8	1.78	0.47
1:1G:1116:C:H2'	1:1G:1117:G:H8	1.75	0.47
1:1G:1134:G:C2	1:1G:1135:U:H1'	2.50	0.47
1:1G:1489:G:H2'	1:1G:1490:C:C6	2.49	0.47
1:1G:1500:A:OP1	1:1G:1508:G:OP1	2.33	0.47
2:12:188:ALA:HB1	2:12:192:SER:HB2	1.95	0.47
4:32:12:CYS:HB3	4:32:33:MET:HG3	1.97	0.47
4:32:61:LYS:HD2	4:32:62:GLN:N	2.29	0.47
4:32:107:ARG:HH11	4:32:173:TRP:HZ2	1.62	0.47
5:42:36:ASP:CG	5:42:38:GLN:HB2	2.39	0.47
6:52:12:PRO:HB3	6:52:58:GLY:HA2	1.95	0.47
6:52:20:ALA:HA	6:52:23:LYS:CD	2.45	0.47
12:3A:8:ASN:ND2	17:8A:34:LYS:HE2	2.30	0.47
12:3A:41:ARG:HG2	12:3A:42:THR:N	2.27	0.47
17:8A:19:VAL:HG22	17:8A:44:ALA:HB3	1.95	0.47
20:BA:73:HIS:O	20:BA:76:ALA:HB3	2.14	0.47
56:1L:1:G:H22	56:1L:72:C:H42	1.62	0.47
56:1L:15:G:O2'	56:1L:16:U:H5''	2.15	0.47
23:2L:51:U:H2'	23:2L:52:C:C5	2.50	0.47
57:3L:13:C:H2'	57:3L:14:A:C8	2.49	0.47
57:3L:15:G:C6	57:3L:48:C:N4	2.79	0.47
57:3L:71:C:H2'	57:3L:72:C:H6	1.78	0.47
26:14:107:C:H2'	26:14:108:U:C6	2.48	0.47
26:14:141(A):C:H2'	26:14:142:G:O4'	2.14	0.47
26:14:142:G:C1'	45:B5:37:THR:HG21	2.44	0.47
26:14:548:A:C4	26:14:549:G:H1'	2.49	0.47
26:14:581:C:H2'	26:14:582:G:C8	2.49	0.47
26:14:699:A:H2'	26:14:700:G:O4'	2.14	0.47
26:14:1048:A:C5'	26:14:1109:C:H42	2.27	0.47
26:14:1142:U:O2	26:14:1142:U:H2'	2.15	0.47
26:14:1202:C:N3	26:14:1243:G:N2	2.59	0.47
26:14:1247:A:OP1	31:39:95:ARG:NH2	2.48	0.47
26:14:1356:G:H2'	26:14:1357:U:O4'	2.13	0.47
26:14:1608:A:H1'	26:14:1610:A:OP2	2.14	0.47
26:14:2250:G:N3	26:14:2250:G:H5''	2.29	0.47
26:14:2255:G:C5	26:14:2256:G:C8	3.03	0.47
26:14:2262:U:C2'	26:14:2263:C:H5'	2.45	0.47
26:14:2308:G:H3'	26:14:2310:A:OP2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2791:C:H2'	26:14:2792:G:H8	1.80	0.47
26:14:2820:A:C5	39:55:4:LEU:HD11	2.50	0.47
27:1J:76:G:H2'	27:1J:77:U:O4'	2.15	0.47
29:19:44:ASN:HB3	29:19:45:ASN:C	2.40	0.47
31:39:168:ARG:HG3	31:39:175:THR:HG21	1.95	0.47
33:59:9:ILE:HA	33:59:52:VAL:HB	1.97	0.47
36:25:14:THR:HG21	36:25:86:ILE:HD12	1.97	0.47
38:45:26:TYR:OH	47:D5:78:LYS:HB3	2.15	0.47
40:65:30:ARG:HD2	40:65:97:ARG:HB2	1.96	0.47
40:65:109:GLY:O	40:65:111:GLU:N	2.31	0.47
42:85:72:HIS:ND1	42:85:110:VAL:HG21	2.30	0.47
43:95:85:LYS:HD2	43:95:87:HIS:CA	2.45	0.47
48:E5:51:VAL:N	48:E5:62:LEU:HD12	2.30	0.47
55:M5:33:ASN:O	55:M5:34:TRP:C	2.56	0.47
55:M5:39:LYS:HG2	55:M5:40:GLU:N	2.30	0.47
1:13:22:G:H2'	1:13:23:C:C6	2.50	0.47
1:13:758:G:H8	1:13:758:G:O5'	1.98	0.47
1:13:1029:G:H1'	1:13:1032(A):G:H21	1.80	0.47
1:13:1074:G:H2'	1:13:1075:C:H6	1.79	0.47
1:13:1330:U:O4	1:13:1331:G:N2	2.47	0.47
4:3E:47:ARG:NH2	4:3E:49:ARG:HG2	2.30	0.47
4:3E:192:GLU:CD	4:3E:192:GLU:N	2.72	0.47
16:7I:49:LEU:HD22	16:7I:73:LEU:HD22	1.97	0.47
26:1H:6:A:C2	26:1H:7:G:C4	3.02	0.47
26:1H:34:C:O2'	26:1H:35:G:P	2.72	0.47
26:1H:255:A:H1'	26:1H:384:U:C6	2.50	0.47
26:1H:270(N):G:O2'	26:1H:270(O):U:H3'	2.15	0.47
26:1H:304:G:C2	26:1H:314:A:C2	3.03	0.47
26:1H:721:C:H2'	26:1H:722:A:H8	1.80	0.47
26:1H:846:C:C4	26:1H:930:U:C4	3.02	0.47
26:1H:1023:U:OP2	26:1H:1024:G:N7	2.48	0.47
26:1H:1144:G:C6	26:1H:1145:C:C4	3.01	0.47
26:1H:1177:A:H4'	26:1H:1178:C:O5'	2.15	0.47
26:1H:1263:U:H2'	26:1H:1264:G:O4'	2.14	0.47
26:1H:1283:G:H8	26:1H:1283:G:O5'	1.97	0.47
26:1H:1359:A:C2	26:1H:1372:U:O4	2.68	0.47
26:1H:1454:U:H5	26:1H:2702:U:O4	1.97	0.47
26:1H:1567:A:C8	29:11:84:TYR:CE2	3.03	0.47
26:1H:1718:G:N3	26:1H:1725:G:C8	2.83	0.47
26:1H:2094:G:OP1	34:61:22:LYS:HG3	2.15	0.47
26:1H:2199:A:C4	26:1H:2205:C:C5	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2820:A:C4	39:98:4:LEU:HD11	2.50	0.47
30:21:111:ARG:HD2	30:21:160:TYR:CE2	2.50	0.47
31:31:7:TYR:O	31:31:21:ALA:HA	2.14	0.47
31:31:45:ARG:HD3	31:31:97:TYR:CD2	2.50	0.47
31:31:101:LEU:HA	31:31:101:LEU:HD23	1.57	0.47
36:68:52:VAL:HG13	36:68:94:ARG:NH1	2.30	0.47
39:98:12:ARG:HG2	39:98:16:HIS:CG	2.50	0.47
45:F8:8:ILE:HD11	45:F8:43:VAL:HG22	1.96	0.47
46:G8:54:LYS:O	46:G8:55:TYR:CD2	2.67	0.47
48:I8:53:MET:HG3	48:I8:59:LEU:HD21	1.93	0.47
51:L8:7:LYS:HB2	51:L8:34:GLU:HG2	1.97	0.47
53:N8:22:HIS:H	53:N8:22:HIS:HD1	1.63	0.47
2:12:47:THR:HG23	2:12:201:ILE:HG23	1.97	0.47
2:12:185:ILE:HG23	2:12:199:TYR:O	2.14	0.47
5:42:61:TYR:HA	5:42:64:ARG:CG	2.45	0.47
5:42:71:LEU:HD21	5:42:115:VAL:HG22	1.97	0.47
9:82:112:LYS:HD3	9:82:112:LYS:C	2.39	0.47
13:4A:48:LEU:HD12	13:4A:52:GLU:HB3	1.96	0.47
16:7A:26:ARG:HG3	16:7A:31:LYS:O	2.14	0.47
26:14:133:C:H42	26:14:146:G:H1	1.61	0.47
26:14:363:G:H2'	26:14:363(A):A:O4'	2.13	0.47
26:14:909:A:C8	26:14:912:C:N4	2.83	0.47
26:14:1013:C:H42	26:14:1149:G:H1	1.61	0.47
26:14:1056:G:H21	26:14:1103:A:H62	1.63	0.47
26:14:1389:G:H2'	26:14:1390:U:C6	2.50	0.47
26:14:1861:G:H1	26:14:1881:C:H42	1.61	0.47
26:14:2228:G:C6	26:14:2229:C:C4	3.02	0.47
26:14:2472:G:H1	26:14:2477:C:P	2.38	0.47
26:14:2788:C:O2'	26:14:2809:A:N3	2.46	0.47
26:14:2807:G:H22	26:14:2892:A:N6	2.12	0.47
27:1J:70:C:H2'	27:1J:71:C:O4'	2.14	0.47
30:29:101:ARG:CZ	30:29:171:GLU:HB2	2.45	0.47
32:49:170:ARG:HH22	32:49:180:PHE:HB2	1.79	0.47
36:25:78:ARG:HH21	41:75:103:ARG:NH2	2.13	0.47
42:85:66:ASN:CB	42:85:76:TYR:HB2	2.40	0.47
46:C5:61:ILE:HG22	46:C5:62:GLU:H	1.80	0.47
46:C5:73:ARG:CZ	46:C5:74:PRO:HD2	2.45	0.47
51:H5:5:LYS:HE3	51:H5:57:GLU:HB2	1.96	0.47
1:13:667:G:H8	1:13:667:G:O5'	1.97	0.47
1:13:814:A:N7	1:13:816:A:C4	2.83	0.47
1:13:1179:A:O2'	9:8E:103:THR:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1349:A:O2'	1:13:1350:A:O5'	2.32	0.47
1:13:1501:C:N4	1:13:1504:G:C2	2.83	0.47
1:13:1509:C:H2'	1:13:1510:U:O4'	2.15	0.47
2:1E:217:ARG:O	2:1E:220:ASP:HB2	2.14	0.47
4:3E:22:LYS:HB2	4:3E:26:CYS:SG	2.55	0.47
7:6E:13:GLN:O	7:6E:24:THR:HG21	2.15	0.47
9:8E:53:VAL:HG21	9:8E:92:TYR:CG	2.50	0.47
9:8E:70:LYS:O	9:8E:74:ILE:HG13	2.14	0.47
11:2I:124:LYS:HE3	11:2I:125:PHE:HE1	1.80	0.47
24:3K:1:G:N3	24:3K:1:G:H2'	2.28	0.47
26:1H:251:A:C5	26:1H:252:G:H1'	2.50	0.47
26:1H:459:U:H4'	54:P8:40:TRP:CZ3	2.50	0.47
26:1H:831:G:N2	37:78:53:GLY:O	2.48	0.47
26:1H:1264:G:OP1	53:N8:19:ARG:NH1	2.46	0.47
26:1H:1496:A:H5'	26:1H:1497:U:P	2.55	0.47
26:1H:1640:C:H2'	26:1H:1641:A:O4'	2.15	0.47
26:1H:2753:A:H8	26:1H:2753:A:O5'	1.98	0.47
31:31:110:LEU:HD12	31:31:110:LEU:HA	1.67	0.47
32:41:81:LYS:NZ	32:41:81:LYS:H	2.13	0.47
35:58:87:LEU:O	35:58:91:LEU:HD23	2.15	0.47
37:78:27:HIS:ND1	37:78:27:HIS:N	2.62	0.47
38:88:21:THR:HA	47:H8:78:LYS:HD3	1.96	0.47
45:F8:8:ILE:O	50:K8:36:ARG:NH2	2.48	0.47
46:G8:20:TYR:CE2	46:G8:43:ASN:HA	2.50	0.47
49:J8:85:LEU:HA	49:J8:85:LEU:HD13	1.59	0.47
1:1G:131:C:H2'	1:1G:132:C:C6	2.50	0.47
1:1G:855:G:OP2	1:1G:871:U:N3	2.44	0.47
1:1G:1261:A:C2	1:1G:1275:A:H1'	2.50	0.47
2:12:17:PHE:CE2	2:12:41:ILE:HD11	2.50	0.47
4:32:25:ARG:NH2	4:32:30:LYS:HB2	2.30	0.47
5:42:34:VAL:HG21	5:42:63:ARG:HE	1.78	0.47
5:42:118:ILE:HG12	5:42:119:LEU:N	2.29	0.47
7:62:70:LYS:O	7:62:138:LYS:HE2	2.15	0.47
9:82:17:VAL:HG22	9:82:63:ILE:HG12	1.97	0.47
9:82:113:LYS:H	9:82:119:ALA:HB1	1.79	0.47
26:14:86:C:C2	26:14:87:C:C5	3.02	0.47
26:14:363(F):A:OP2	26:14:363(F):A:H8	1.97	0.47
26:14:669:G:N3	26:14:669:G:C2'	2.78	0.47
26:14:977:G:H5'	26:14:1155:A:H4'	1.97	0.47
26:14:1285:G:C5	26:14:1329:U:C4	3.03	0.47
26:14:1562:A:H2'	26:14:1563:G:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1753:G:N2	26:14:1755:A:H3'	2.30	0.47
26:14:1793:C:O2'	26:14:1900:A:N1	2.47	0.47
26:14:1817:G:OP1	29:19:88:ARG:NH2	2.42	0.47
26:14:2495:G:H2'	26:14:2496:C:H6	1.80	0.47
26:14:2865:U:C4	26:14:2866:U:C4	3.03	0.47
27:1J:73:A:C4	27:1J:104:A:C2	3.03	0.47
29:19:10:THR:OG1	29:19:13:ARG:HB2	2.15	0.47
30:29:66:HIS:ND1	30:29:67:PHE:N	2.62	0.47
31:39:170:LEU:HD22	31:39:172:TRP:NE1	2.30	0.47
35:15:58:ASP:OD1	35:15:58:ASP:N	2.48	0.47
36:25:104:ARG:HD2	41:75:36:GLU:HB2	1.96	0.47
1:13:155:C:H2'	1:13:156:G:C8	2.50	0.47
1:13:186(F):C:H5''	1:13:187:C:OP2	2.14	0.47
1:13:198:G:H2'	1:13:199:G:H8	1.79	0.47
1:13:1409:C:H2'	1:13:1410:G:C8	2.50	0.47
4:3E:78:LEU:HB3	4:3E:93:PHE:CE1	2.50	0.47
4:3E:131:ARG:O	4:3E:133:VAL:HG23	2.15	0.47
4:3E:166:LYS:HB2	4:3E:178:VAL:HG11	1.97	0.47
7:6E:15:ASP:OD1	7:6E:16:LEU:N	2.48	0.47
11:2I:21:ILE:HD12	11:2I:84:VAL:HG12	1.96	0.47
13:4I:40:ASN:HB3	13:4I:43:THR:OG1	2.15	0.47
26:1H:7:G:H1	26:1H:2896:C:N4	2.13	0.47
26:1H:286:C:H2'	26:1H:287:C:H6	1.78	0.47
26:1H:848:G:H2'	26:1H:849:A:H8	1.76	0.47
26:1H:1005:C:H2'	26:1H:1006:C:C6	2.50	0.47
26:1H:1021:A:OP2	35:58:65:LYS:NZ	2.47	0.47
26:1H:1024:G:C6	26:1H:1025:G:C6	3.03	0.47
26:1H:1225:C:O2'	43:D8:85:LYS:HA	2.15	0.47
26:1H:1356:G:H2'	26:1H:1357:U:C6	2.50	0.47
26:1H:1753:G:OP1	41:B8:95:ARG:NE	2.41	0.47
26:1H:2510:C:H2'	26:1H:2511:U:C6	2.50	0.47
29:11:26:LYS:HD2	29:11:29:PRO:CB	2.42	0.47
30:21:105:THR:HB	30:21:197:ILE:CG2	2.44	0.47
34:61:117:GLU:OE1	34:61:117:GLU:N	2.33	0.47
45:F8:27:THR:HB	45:F8:80:ILE:HB	1.97	0.47
47:H8:11:GLU:O	47:H8:36:LYS:HE3	2.15	0.47
1:1G:38:G:O2'	1:1G:39:G:H5''	2.15	0.47
1:1G:967:C:H2'	1:1G:968:A:C8	2.48	0.47
1:1G:1325:C:P	21:1B:15:ARG:HH21	2.37	0.47
2:12:24:TRP:N	2:12:24:TRP:CD1	2.82	0.47
2:12:82:ARG:HD2	2:12:94:ASN:HD22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:138:TYR:CD1	4:32:138:TYR:C	2.93	0.47
6:52:50:TYR:OH	18:9A:74:ARG:O	2.22	0.47
15:6A:39:LEU:CD1	15:6A:56:LEU:HB2	2.44	0.47
23:2L:9:G:O4'	23:2L:47:G7M:H1'	2.15	0.47
26:14:8:A:H2'	26:14:9:U:C5	2.50	0.47
26:14:341:G:C6	26:14:342:G:C5	3.03	0.47
26:14:937:U:H6	26:14:937:U:O5'	1.98	0.47
26:14:1423:G:H2'	26:14:1424:G:H8	1.80	0.47
26:14:2161:C:O2'	26:14:2173:A:OP2	2.25	0.47
26:14:2340:G:H2'	26:14:2341:G:C8	2.50	0.47
26:14:2630:G:H3'	26:14:2631:G:H8	1.79	0.47
27:1J:5:C:H42	27:1J:115:G:H1	1.63	0.47
27:1J:101:A:OP2	27:1J:101:A:H8	1.98	0.47
29:19:255:LYS:HD3	29:19:255:LYS:O	2.15	0.47
30:29:98:PRO:HB3	30:29:173:VAL:O	2.15	0.47
30:29:134:ILE:O	30:29:134:ILE:CD1	2.58	0.47
30:29:165:VAL:O	30:29:189:PRO:HG2	2.15	0.47
37:35:86:LYS:HG3	37:35:87:ASP:H	1.79	0.47
38:45:26:TYR:HA	38:45:102:VAL:HG21	1.96	0.47
40:65:26:LEU:O	40:65:88:ASP:HB2	2.14	0.47
40:65:93:LYS:O	40:65:98:VAL:HG21	2.15	0.47
44:A5:37:ARG:HG2	44:A5:38:TYR:CD1	2.50	0.47
46:C5:17:SER:O	46:C5:21:LYS:HB2	2.15	0.47
1:13:22:G:C6	1:13:23:C:C4	3.03	0.46
1:13:724:G:O2'	1:13:725:G:H5'	2.15	0.46
1:13:922:G:C6	1:13:923:A:C6	3.02	0.46
1:13:988:G:C2	1:13:1218:C:O2	2.69	0.46
1:13:1014:A:H4'	19:AI:14:HIS:CG	2.50	0.46
1:13:1117:G:H5''	9:8E:104:ARG:CZ	2.45	0.46
1:13:1152:A:H2'	1:13:1153:C:C6	2.50	0.46
1:13:1263:C:O2'	1:13:1264:C:H5'	2.15	0.46
4:3E:144:ASP:O	4:3E:184:LYS:HA	2.15	0.46
12:3I:85:ILE:HA	12:3I:85:ILE:HD13	1.64	0.46
15:6I:3:ILE:HG22	15:6I:38:ARG:HG3	1.95	0.46
15:6I:17:ARG:HA	15:6I:17:ARG:NE	2.29	0.46
24:3K:74:C:H2'	24:3K:75:C:C6	2.50	0.46
26:1H:931:G:C4	26:1H:933:A:C8	3.04	0.46
26:1H:986:C:O2'	26:1H:987:G:H5'	2.15	0.46
26:1H:1534:G:H2'	26:1H:1535:U:O4'	2.15	0.46
26:1H:1641:A:N6	26:1H:1642:G:C2	2.82	0.46
26:1H:1682:G:C6	26:1H:1683:C:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1761:C:N4	26:1H:1762:A:H62	2.13	0.46
26:1H:2553:G:H5'	26:1H:2554:U:OP2	2.15	0.46
26:1H:2784:C:O2	30:21:37:ARG:NH1	2.47	0.46
27:16:50:G:OP1	40:A8:63:THR:HG23	2.14	0.46
30:21:7:VAL:O	30:21:26:ILE:HG13	2.15	0.46
30:21:166:THR:CG2	30:21:199:ARG:HH22	2.28	0.46
31:31:16:GLY:HA3	31:31:18:ARG:HG3	1.97	0.46
32:41:125:PHE:CD1	32:41:131:TYR:HB2	2.50	0.46
33:51:156:ALA:O	33:51:157:TYR:HB2	2.15	0.46
37:78:82:GLY:HA2	37:78:113:LYS:O	2.14	0.46
39:98:79:LEU:HA	39:98:83:ILE:HB	1.97	0.46
41:B8:55:ASN:C	41:B8:59:THR:HG22	2.40	0.46
44:E8:29:LEU:HD13	44:E8:51:LEU:HD21	1.97	0.46
48:I8:23:VAL:HG13	48:I8:38:VAL:CG2	2.41	0.46
52:M8:38:LYS:HA	52:M8:40:HIS:HB3	1.96	0.46
53:N8:40:LYS:HG3	53:N8:47:PRO:HD2	1.97	0.46
1:1G:186(C):G:H2'	1:1G:186(D):C:O4'	2.15	0.46
1:1G:546:G:OP1	4:32:73:ARG:HB2	2.16	0.46
1:1G:555:C:H2'	1:1G:556:C:C6	2.50	0.46
1:1G:635:G:C2	1:1G:636:U:C2	3.03	0.46
1:1G:1138:G:C6	1:1G:1140:C:H1'	2.50	0.46
2:12:17:PHE:CZ	2:12:42:ILE:HG23	2.50	0.46
4:32:107:ARG:HG2	4:32:174:LEU:CD1	2.46	0.46
4:32:110:PHE:HD1	4:32:110:PHE:H	1.63	0.46
6:52:14:LEU:HB2	6:52:18:GLN:OE1	2.15	0.46
11:2A:32:ILE:HD11	11:2A:68:ALA:HB1	1.98	0.46
12:3A:47:LYS:CG	12:3A:48:PRO:HD2	2.45	0.46
13:4A:55:ARG:HA	13:4A:58:GLU:HB3	1.97	0.46
20:BA:67:ALA:HB2	20:BA:77:ALA:HB2	1.95	0.46
57:3L:33:U:H2'	57:3L:35:U:OP2	2.15	0.46
26:14:272:G:H2'	26:14:273:G:O4'	2.15	0.46
26:14:396:G:H8	26:14:396:G:O5'	1.98	0.46
26:14:399:G:O6	26:14:400:G:C2	2.68	0.46
26:14:588:U:H2'	26:14:589:C:C6	2.50	0.46
26:14:829:A:N7	26:14:2248:C:H5'	2.30	0.46
26:14:1392:A:N6	26:14:1393:A:N6	2.63	0.46
26:14:1655:A:H3'	26:14:1656:C:H6	1.80	0.46
26:14:2168:G:N3	26:14:2168:G:H3'	2.30	0.46
26:14:2577:A:H2'	26:14:2614:A:N6	2.30	0.46
27:1J:7:G:OP2	27:1J:7:G:H8	1.98	0.46
27:1J:65:C:H41	27:1J:108:C:H2'	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:15:30:ILE:O	35:15:34:LEU:CD2	2.63	0.46
35:15:50:ASP:O	35:15:52:VAL:HG23	2.15	0.46
36:25:7:TYR:CD1	36:25:20:MET:HB2	2.50	0.46
38:45:18:LYS:H	38:45:98:LYS:HZ3	1.63	0.46
42:85:90:VAL:O	42:85:92:ARG:N	2.48	0.46
46:C5:38:ILE:HG12	46:C5:66:PRO:HA	1.96	0.46
47:D5:19:ARG:NH1	47:D5:84:GLU:HB2	2.29	0.46
1:13:64:G:H21	1:13:67:C:N4	2.13	0.46
1:13:187:C:O2	1:13:191(A):G:C2	2.68	0.46
1:13:1178:G:H5''	9:8E:93:ARG:HH22	1.80	0.46
1:13:1182:G:O5'	1:13:1182:G:C8	2.68	0.46
1:13:1288:A:O2'	1:13:1289:A:H5'	2.15	0.46
1:13:1315:U:C5	1:13:1316:G:C5	3.03	0.46
2:1E:102:LEU:HB3	2:1E:180:LEU:HD12	1.96	0.46
2:1E:169:LYS:NZ	2:1E:191:ASP:OD2	2.38	0.46
3:2E:120:VAL:O	3:2E:122:GLU:N	2.49	0.46
8:7E:34:GLU:HB3	8:7E:118:VAL:HG21	1.97	0.46
8:7E:39:LEU:HB3	8:7E:45:ILE:HG12	1.95	0.46
8:7E:112:LEU:HB2	8:7E:133:LEU:HA	1.97	0.46
9:8E:26:VAL:HG22	9:8E:61:ALA:HB3	1.97	0.46
13:4I:16:ASP:OD1	13:4I:16:ASP:N	2.48	0.46
14:5I:23:ARG:HD2	14:5I:28:GLY:O	2.16	0.46
14:5I:29:ARG:HD3	14:5I:40:CYS:HB2	1.97	0.46
17:8I:55:ASP:HB3	17:8I:57:VAL:HG13	1.97	0.46
18:9I:22:VAL:HA	18:9I:25:THR:OG1	2.16	0.46
22:1K:75:C:H2'	22:1K:76:A:C4	2.50	0.46
26:1H:265:A:H1'	26:1H:266:G:O4'	2.15	0.46
26:1H:482:A:H5''	26:1H:483:A:OP1	2.15	0.46
26:1H:686:G:H8	54:P8:6:GLN:O	1.98	0.46
26:1H:962:G:C2	26:1H:963:U:C2	3.02	0.46
26:1H:1522:G:H2'	26:1H:1523:U:O4'	2.16	0.46
26:1H:1568:G:H5''	29:11:61:LEU:HD23	1.97	0.46
26:1H:1586:A:H3'	26:1H:1587:A:H8	1.81	0.46
26:1H:1647:G:P	26:1H:1647:G:H3'	2.55	0.46
26:1H:2017:U:O2	53:N8:10:LYS:HB2	2.15	0.46
26:1H:2068:U:O4	26:1H:2430:A:C2	2.68	0.46
26:1H:2227:A:C5	26:1H:2228:G:N7	2.84	0.46
26:1H:2358:G:H2'	26:1H:2359:C:H6	1.81	0.46
26:1H:2518:A:H8	26:1H:2518:A:H5'	1.80	0.46
31:31:95:ARG:HG3	31:31:97:TYR:CE1	2.50	0.46
32:41:59:GLU:O	32:41:63:ILE:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:67:LYS:H	32:41:67:LYS:CD	2.24	0.46
32:41:94:LEU:HA	32:41:98:ARG:HH12	1.80	0.46
36:68:7:TYR:CE1	36:68:20:MET:HE3	2.50	0.46
40:A8:62:LYS:H	40:A8:62:LYS:HG2	1.39	0.46
40:A8:88:ASP:C	40:A8:90:GLY:H	2.22	0.46
1:1G:246:A:C4	1:1G:279:A:N6	2.84	0.46
1:1G:369:C:O2'	1:1G:370:C:H5'	2.15	0.46
1:1G:892:A:O2'	1:1G:1415:G:H4'	2.15	0.46
1:1G:1238:A:OP1	1:1G:1335:C:O2'	2.29	0.46
1:1G:1262:C:H2'	1:1G:1263:C:O4'	2.16	0.46
1:1G:1305:G:O2'	1:1G:1306:A:H8	1.98	0.46
3:22:139:GLN:NE2	3:22:139:GLN:O	2.48	0.46
4:32:33:MET:HE3	4:32:33:MET:HB3	1.77	0.46
4:32:191:ARG:HA	4:32:191:ARG:HE	1.81	0.46
6:52:72:VAL:HG13	6:52:73:ASN:H	1.80	0.46
9:82:56:LEU:HD23	9:82:56:LEU:H	1.80	0.46
26:14:107:C:C2	26:14:108:U:C5	3.03	0.46
26:14:190:A:OP2	49:F5:39:LYS:NZ	2.47	0.46
26:14:740:U:H5''	26:14:1784:A:H3'	1.97	0.46
26:14:853:G:O2'	26:14:854:G:H5'	2.15	0.46
26:14:1702:G:H2'	26:14:1703:G:O4'	2.15	0.46
26:14:1759:A:O2'	26:14:2714:G:O2'	2.33	0.46
26:14:1783:A:C2	26:14:2587:A:C5	3.03	0.46
26:14:1786:A:H2	26:14:2606:C:H1'	1.79	0.46
26:14:2340:G:H2'	26:14:2341:G:H8	1.80	0.46
26:14:2378:A:H4'	40:65:23:ARG:NH1	2.25	0.46
26:14:2512:C:H1'	30:29:140:SER:O	2.15	0.46
37:35:7:ARG:HB2	37:35:7:ARG:CZ	2.43	0.46
37:35:63:PRO:HD3	55:M5:27:THR:HG22	1.97	0.46
37:35:121:LYS:C	37:35:123:LEU:HD12	2.40	0.46
38:45:35:VAL:HG12	38:45:36:ALA:N	2.29	0.46
40:65:95:HIS:N	40:65:99:LYS:HB2	2.30	0.46
41:75:88:ILE:HD13	41:75:91:ARG:NH2	2.29	0.46
41:75:126:ALA:HA	41:75:129:ARG:CD	2.42	0.46
47:D5:29:TYR:O	47:D5:89:PHE:HA	2.15	0.46
47:D5:69:THR:CG2	47:D5:90:VAL:HG22	2.44	0.46
1:13:784:C:H2'	1:13:785:G:O4'	2.15	0.46
1:13:1074:G:C4	1:13:1102:A:C2	3.03	0.46
1:13:1322:C:H5''	13:4I:100:GLY:HA2	1.97	0.46
1:13:1483:A:H8	1:13:1483:A:O5'	1.98	0.46
2:1E:30:ARG:HD3	2:1E:31:TYR:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4I:82:MET:O	13:4I:84:ILE:N	2.45	0.46
19:AI:18:LYS:NZ	19:AI:22:LEU:HB2	2.30	0.46
20:BI:46:GLU:HB2	20:BI:48:LYS:HG3	1.97	0.46
20:BI:67:ALA:HA	20:BI:72:LEU:O	2.15	0.46
23:2K:16:C:H5''	23:2K:17:C:C4	2.50	0.46
26:1H:270(V):G:H2'	26:1H:270(W):G:O4'	2.15	0.46
26:1H:447:A:C8	26:1H:473:G:C6	3.03	0.46
26:1H:475:U:C4	26:1H:481:G:O6	2.68	0.46
26:1H:654(S):G:O2'	26:1H:654(T):A:H8	1.97	0.46
26:1H:768:G:H2'	26:1H:769:G:H8	1.80	0.46
26:1H:1805:U:O2	29:11:50:THR:HB	2.15	0.46
26:1H:2029:G:H2'	26:1H:2031:A:OP1	2.16	0.46
26:1H:2055:C:H5''	26:1H:2055:C:H6	1.80	0.46
26:1H:2799:A:H5''	26:1H:2801:A:O5'	2.16	0.46
27:16:27:C:H5''	40:A8:54:LEU:HD21	1.97	0.46
30:21:111:ARG:HD2	30:21:160:TYR:CD2	2.49	0.46
43:D8:33:VAL:O	43:D8:58:VAL:HA	2.15	0.46
44:E8:35:ILE:HG23	53:N8:28:PRO:HD2	1.97	0.46
44:E8:58:ALA:CB	44:E8:64:MET:HG3	2.45	0.46
44:E8:62:HIS:HB2	44:E8:64:MET:HG2	1.97	0.46
1:1G:216:G:O2'	1:1G:217:C:O4'	2.32	0.46
1:1G:464:G:C6	1:1G:466:C:H5'	2.50	0.46
1:1G:988:G:C6	1:1G:989:C:C4	3.04	0.46
1:1G:1065:U:H6	1:1G:1190:G:H21	1.64	0.46
1:1G:1286:A:H5'	21:1B:25:LYS:CD	2.45	0.46
1:1G:1292:U:P	9:82:39:GLY:HA3	2.54	0.46
1:1G:1350:A:H2'	1:1G:1351:U:O4'	2.16	0.46
1:1G:1478:C:H2'	1:1G:1479:C:H6	1.81	0.46
6:52:1:MET:HB3	6:52:66:GLU:HG3	1.97	0.46
6:52:19:LEU:O	6:52:23:LYS:HG3	2.16	0.46
7:62:109:ASN:HA	7:62:119:ARG:NH1	2.31	0.46
11:2A:61:ALA:HB2	11:2A:90:GLY:HA3	1.97	0.46
16:7A:67:THR:HG22	16:7A:68:ASP:N	2.27	0.46
23:2L:19:G:O2'	23:2L:20:G:H5'	2.15	0.46
57:3L:70:C:C2'	57:3L:71:C:H5'	2.40	0.46
26:14:235:U:H2'	26:14:236:C:C6	2.50	0.46
26:14:536:A:H2'	26:14:537:C:C6	2.51	0.46
26:14:691:C:O4'	29:19:43:ARG:NH2	2.48	0.46
26:14:860:U:C2	26:14:2268:A:C8	3.04	0.46
26:14:871:U:OP1	38:45:5:ARG:NH1	2.48	0.46
26:14:1024:G:H8	26:14:1024:G:O5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1224:G:OP2	43:95:66:ARG:NH2	2.49	0.46
26:14:1444(A):A:H2'	26:14:1444(A):A:N3	2.30	0.46
26:14:1540:G:C2	26:14:1541:U:C2	3.03	0.46
26:14:1654:A:H1'	26:14:2823:A:H5'	1.98	0.46
26:14:2536:G:C6	26:14:2537:U:C4	3.04	0.46
26:14:2648:C:H2'	26:14:2649:U:O4'	2.15	0.46
26:14:2846:G:C5	26:14:2847:U:C4	3.04	0.46
29:19:132:PRO:HD3	29:19:190:TYR:CE2	2.49	0.46
30:29:54:GLN:N	30:29:74:PRO:HB3	2.29	0.46
35:15:90:MET:HG3	35:15:98:VAL:HG12	1.98	0.46
36:25:22:ILE:HB	36:25:40:VAL:O	2.15	0.46
38:45:20:ALA:HA	38:45:99:PRO:HG2	1.97	0.46
39:55:58:GLY:HA2	39:55:80:PHE:HE2	1.80	0.46
41:75:99:LEU:HD22	41:75:101:PHE:CE1	2.50	0.46
42:85:98:LEU:CB	42:85:102:GLU:HB2	2.45	0.46
42:85:100:VAL:C	42:85:102:GLU:H	2.23	0.46
1:13:626:U:H2'	1:13:627:G:H8	1.80	0.46
1:13:736:C:C2	1:13:737:A:N7	2.84	0.46
1:13:1221:G:C6	1:13:1222:G:C5	3.03	0.46
1:13:1260:C:H3'	1:13:1260:C:H6	1.80	0.46
4:3E:64:LEU:HD13	4:3E:198:VAL:HG21	1.97	0.46
6:5E:23:LYS:HA	6:5E:26:ILE:HD12	1.97	0.46
8:7E:12:ARG:HE	8:7E:26:VAL:HA	1.80	0.46
9:8E:29:ASN:OD1	9:8E:65:VAL:N	2.47	0.46
11:2I:116:HIS:N	11:2I:116:HIS:CD2	2.83	0.46
13:4I:23:TYR:CD1	13:4I:67:GLU:HB3	2.50	0.46
15:6I:17:ARG:HG2	15:6I:26:GLU:HG3	1.98	0.46
18:9I:29:PHE:CE1	18:9I:31:LEU:HB3	2.51	0.46
24:3K:44:U:H2'	24:3K:45:G:O3'	2.15	0.46
26:1H:15:G:C2	26:1H:16:G:C8	3.04	0.46
26:1H:357:A:H2'	26:1H:358:U:H6	1.80	0.46
26:1H:620:G:OP2	26:1H:620:G:N2	2.33	0.46
26:1H:708:C:OP2	26:1H:708:C:C6	2.68	0.46
26:1H:1260:G:C6	26:1H:1261:C:C4	3.03	0.46
26:1H:1463:C:O5'	26:1H:1463:C:H6	1.99	0.46
26:1H:2110:G:C5	26:1H:2120:G:C8	3.03	0.46
26:1H:2369:A:H2'	26:1H:2370:G:H8	1.80	0.46
26:1H:2854:G:H2'	26:1H:2855:C:C6	2.50	0.46
27:16:30:C:OP2	40:A8:32:LEU:HD11	2.14	0.46
27:16:66:A:C2	27:16:108:C:C4	3.03	0.46
29:11:2:ALA:HA	29:11:20:ASP:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:11:83:GLU:OE2	29:11:104:TYR:OH	2.28	0.46
29:11:113:VAL:O	29:11:113:VAL:HG13	2.16	0.46
30:21:55:ASN:HB3	30:21:58:ARG:HD2	1.97	0.46
31:31:164:ARG:HG3	31:31:175:THR:OG1	2.15	0.46
37:78:120:ALA:CB	37:78:138:LEU:HA	2.46	0.46
38:88:11:LYS:HE2	38:88:88:GLY:O	2.15	0.46
38:88:19:GLY:O	38:88:21:THR:OG1	2.22	0.46
41:B8:65:LYS:O	41:B8:72:VAL:N	2.39	0.46
42:C8:93:LYS:H	42:C8:93:LYS:HG3	1.49	0.46
46:G8:93:GLY:O	46:G8:94:LYS:HB2	2.14	0.46
46:G8:94:LYS:HG3	46:G8:95:LYS:C	2.41	0.46
1:1G:673:G:H2'	1:1G:674:G:C8	2.51	0.46
1:1G:848:C:N3	1:1G:849:C:C4	2.83	0.46
1:1G:1004:A:H2'	1:1G:1005:A:C2	2.51	0.46
3:22:36:ASP:OD1	3:22:57:ILE:HG21	2.14	0.46
3:22:59:ARG:NH2	3:22:97:LYS:NZ	2.63	0.46
4:32:31:CYS:HB2	4:32:33:MET:O	2.16	0.46
4:32:111:ALA:HB1	4:32:116:GLN:OE1	2.16	0.46
7:62:20:ASP:HB3	7:62:23:VAL:HB	1.98	0.46
7:62:99:LEU:HD13	7:62:103:TRP:CZ2	2.50	0.46
13:4A:34:LEU:HG	13:4A:35:GLU:H	1.81	0.46
14:5A:17:LYS:HZ3	14:5A:18:VAL:HG13	1.79	0.46
57:3L:21:A:H2'	57:3L:22:G:C8	2.51	0.46
25:4L:21:A:N6	25:4L:22:A:C6	2.83	0.46
26:14:592:G:H1	26:14:665:C:H42	1.63	0.46
26:14:928:G:H2'	26:14:929:G:O4'	2.15	0.46
26:14:1266:G:O2'	26:14:2012:G:O6	2.29	0.46
26:14:1564:C:C2'	26:14:1565:C:H5'	2.45	0.46
26:14:1845:G:C2'	26:14:1846:G:H5'	2.45	0.46
26:14:1886:C:OP2	26:14:1886:C:H6	1.98	0.46
26:14:2116:G:N1	26:14:2117:A:N6	2.63	0.46
27:1J:104:A:OP1	47:D5:72:ARG:NH1	2.48	0.46
29:19:223:GLY:HA2	29:19:231:HIS:CD2	2.51	0.46
29:19:255:LYS:N	29:19:255:LYS:HD2	2.30	0.46
29:19:267:SER:C	29:19:269:PHE:H	2.24	0.46
30:29:26:ILE:HG22	30:29:27:LEU:C	2.41	0.46
31:39:141:ALA:O	31:39:144:LYS:HB2	2.15	0.46
34:69:62:LYS:HD2	34:69:62:LYS:C	2.41	0.46
37:35:3:LEU:O	37:35:6:LEU:HD23	2.15	0.46
37:35:47:ASP:HB3	37:35:50:ARG:H	1.81	0.46
37:35:114:ILE:HD11	37:35:130:PHE:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:45:48:GLU:O	38:45:52:VAL:HG23	2.15	0.46
42:85:24:TYR:O	42:85:29:SER:HB3	2.15	0.46
46:C5:12:THR:HA	46:C5:26:LYS:HA	1.98	0.46
47:D5:166:SER:O	47:D5:168:GLU:N	2.45	0.46
1:13:413:G:O6	4:3E:35:ARG:HD3	2.15	0.46
1:13:477:G:H2'	1:13:478:A:H8	1.79	0.46
1:13:742:G:H4'	15:6I:58:MET:HE1	1.97	0.46
1:13:1042:G:O2'	26:14:2137:C:O2	2.34	0.46
1:13:1288:A:H2'	1:13:1289:A:O4'	2.15	0.46
1:13:1301:U:O2	1:13:1301:U:H2'	2.14	0.46
1:13:1434:A:H2'	1:13:1435:G:O4'	2.15	0.46
2:1E:234:PRO:HB2	2:1E:236:TYR:N	2.30	0.46
3:2E:70:VAL:N	3:2E:106:VAL:HG23	2.30	0.46
7:6E:139:GLU:O	7:6E:142:GLU:N	2.49	0.46
13:4I:9:ILE:HD13	13:4I:11:ARG:HH22	1.81	0.46
13:4I:65:LYS:HG2	13:4I:70:LEU:HA	1.97	0.46
15:6I:18:PHE:CE1	15:6I:21:ASP:HB2	2.50	0.46
24:3K:36:U:H2'	24:3K:37:A:O4'	2.15	0.46
26:1H:592:G:O2'	55:Q8:4:MET:HB2	2.15	0.46
26:1H:616:A:C4	31:31:180:GLY:HA2	2.50	0.46
26:1H:654(A):A:H2	26:1H:654(T):A:N1	2.13	0.46
26:1H:754:C:H2'	26:1H:755:C:C6	2.51	0.46
26:1H:974(A):C:H4'	26:1H:975:G:C5'	2.46	0.46
26:1H:1388:G:H2'	26:1H:1389:G:C8	2.51	0.46
26:1H:2028:U:H2'	26:1H:2029:G:O4'	2.16	0.46
26:1H:2259:G:N1	26:1H:2282:G:C6	2.84	0.46
27:16:63:G:C2	27:16:64:C:C2	3.03	0.46
28:71:6:ARG:HG2	28:71:34:THR:HG21	1.97	0.46
28:71:39:GLU:O	28:71:178:ALA:HB2	2.15	0.46
28:71:192:PHE:HA	28:71:195:ALA:HB3	1.98	0.46
33:51:167:GLU:CD	33:51:167:GLU:N	2.74	0.46
34:61:2:LYS:HE2	34:61:2:LYS:HB3	1.48	0.46
34:61:48:GLU:O	34:61:52:ARG:HG3	2.15	0.46
35:58:121:LYS:HB3	35:58:123:TYR:HE1	1.81	0.46
38:88:16:ARG:HE	38:88:16:ARG:HB3	1.34	0.46
40:A8:78:LEU:HD12	40:A8:108:GLY:CA	2.45	0.46
40:A8:83:LYS:HA	40:A8:109:GLY:HA2	1.96	0.46
41:B8:2:ASN:OD1	41:B8:2:ASN:N	2.48	0.46
1:1G:87:A:O2'	1:1G:88:C:H5''	2.15	0.46
1:1G:238:G:C6	1:1G:239:U:C4	3.04	0.46
1:1G:240:C:O5'	1:1G:240:C:H6	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:273:A:C5	1:1G:274:A:N7	2.83	0.46
1:1G:889:A:N6	1:1G:907:A:H5''	2.30	0.46
1:1G:924:C:O2'	1:1G:1502:A:N6	2.49	0.46
1:1G:1259:C:N4	1:1G:1275:A:H61	2.10	0.46
1:1G:1272:G:C5	1:1G:1273:G:C8	3.03	0.46
1:1G:1298:C:H41	7:62:114:ARG:HB3	1.80	0.46
3:22:9:GLY:HA2	3:22:12:LEU:HB2	1.96	0.46
4:32:105:VAL:HG13	4:32:110:PHE:HB2	1.97	0.46
4:32:201:GLN:O	4:32:205:GLU:HB2	2.15	0.46
7:62:3:ARG:H	7:62:3:ARG:HG2	1.61	0.46
8:72:104:ARG:HB3	8:72:108:GLY:N	2.28	0.46
9:82:73:GLN:O	9:82:77:ILE:HG13	2.16	0.46
12:3A:7:ILE:O	12:3A:10:LEU:N	2.49	0.46
13:4A:84:ILE:HG23	19:AA:74:PHE:CE1	2.51	0.46
57:3L:15:G:H1'	57:3L:59:A:H61	1.81	0.46
57:3L:76:A:H8	26:14:2394:C:N4	2.14	0.46
26:14:43:G:H1'	26:14:438:G:N2	2.30	0.46
26:14:746:A:OP1	26:14:2612:C:C6	2.68	0.46
26:14:1167:U:H2'	26:14:1168:G:C8	2.50	0.46
26:14:1946:U:H2'	26:14:1947:C:C6	2.50	0.46
26:14:2107:C:N3	26:14:2182:G:N2	2.64	0.46
26:14:2134:A:H2'	26:14:2134:A:N3	2.31	0.46
26:14:2304:G:N2	26:14:2313:C:N4	2.64	0.46
26:14:2646:C:H2'	26:14:2647:U:O4'	2.15	0.46
29:19:260:ARG:HH12	29:19:267:SER:HB3	1.79	0.46
30:29:33:VAL:HG12	30:29:89:ASP:H	1.81	0.46
30:29:36:ARG:HH22	30:29:88:GLY:CA	2.28	0.46
31:39:88:VAL:HG23	31:39:89:VAL:O	2.15	0.46
33:59:166:GLY:O	33:59:167:GLU:HG2	2.16	0.46
35:15:91:LEU:O	35:15:95:PRO:HB3	2.15	0.46
44:A5:88:ARG:NH1	44:A5:88:ARG:HG2	2.31	0.46
45:B5:18:TYR:O	45:B5:19:ALA:C	2.58	0.46
47:D5:52:SER:O	47:D5:52:SER:OG	2.25	0.46
1:13:247:G:C4	1:13:248:C:C5	3.04	0.46
1:13:835:U:H3	1:13:851:G:H1	1.63	0.46
1:13:1318:A:H1'	19:AI:37:ARG:NE	2.29	0.46
1:13:1409:C:H2'	1:13:1410:G:H8	1.80	0.46
4:3E:192:GLU:CD	4:3E:192:GLU:H	2.22	0.46
5:4E:146:ALA:HB1	5:4E:150:ARG:HH22	1.80	0.46
8:7E:14:ARG:HG2	8:7E:18:ARG:HH21	1.81	0.46
9:8E:28:VAL:HA	9:8E:63:ILE:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4I:67:GLU:H	13:4I:67:GLU:CD	2.24	0.46
18:9I:36:ASN:OD1	18:9I:36:ASN:N	2.39	0.46
19:AI:69:HIS:HB2	19:AI:74:PHE:CZ	2.51	0.46
26:1H:719:C:H2'	26:1H:720:C:H6	1.80	0.46
26:1H:794:G:H2'	26:1H:795:C:C6	2.51	0.46
26:1H:945:A:C4	26:1H:2448:A:C2	3.04	0.46
26:1H:1202:C:N4	26:1H:1203:G:C6	2.84	0.46
27:16:15:A:OP1	27:16:15:A:C4'	2.64	0.46
27:16:44:G:N1	27:16:48:A:C2	2.84	0.46
32:41:168:GLU:H	32:41:168:GLU:HG3	1.38	0.46
35:58:57:ALA:O	35:58:58:ASP:OD2	2.33	0.46
40:A8:106:ARG:C	40:A8:106:ARG:HD2	2.41	0.46
47:H8:59:LEU:HA	47:H8:59:LEU:HD23	1.49	0.46
1:1G:73:G:C2	1:1G:99:C:O2	2.69	0.46
1:1G:103:C:OP2	20:BA:17:ARG:NH2	2.49	0.46
1:1G:200:G:H1	1:1G:217:C:H42	1.63	0.46
1:1G:364:A:H61	12:3A:28:LYS:HZ2	1.61	0.46
1:1G:475:G:OP1	16:7A:81:ARG:NH2	2.49	0.46
1:1G:590:C:O2	1:1G:649:G:N2	2.45	0.46
1:1G:888:G:H3'	1:1G:889:A:H2'	1.97	0.46
1:1G:1086:U:H2'	1:1G:1087:G:C8	2.45	0.46
1:1G:1145:C:H4'	1:1G:1146:A:O5'	2.16	0.46
1:1G:1205:U:H4'	3:22:195:VAL:HG13	1.96	0.46
4:32:63:LYS:HE3	4:32:63:LYS:HB2	1.83	0.46
18:9A:22:VAL:HG12	18:9A:55:ARG:O	2.16	0.46
23:2L:54:G:H2'	23:2L:55:5MU:H6	1.80	0.46
26:14:154:G:N1	26:14:155:C:H1'	2.31	0.46
26:14:639:U:H2'	26:14:640:C:C6	2.51	0.46
26:14:674:G:H1'	31:39:74:ARG:CD	2.45	0.46
26:14:1889:A:H2'	26:14:1890:A:O4'	2.16	0.46
26:14:2197:U:H1'	26:14:2198:A:C8	2.51	0.46
26:14:2331:G:H4'	48:E5:43:THR:N	2.29	0.46
27:1J:66:A:C6	27:1J:108:C:C5	3.03	0.46
30:29:23:VAL:HA	30:29:184:VAL:O	2.15	0.46
32:49:153:ARG:HD3	32:49:153:ARG:N	2.31	0.46
33:59:9:ILE:HB	33:59:10:PRO:CD	2.44	0.46
33:59:65:HIS:O	33:59:68:THR:N	2.49	0.46
34:69:72:LEU:HD21	34:69:107:VAL:HG11	1.97	0.46
45:B5:80:ILE:O	45:B5:80:ILE:HG13	2.16	0.46
46:C5:99:CYS:SG	46:C5:100:ALA:N	2.88	0.46
50:G5:32:LEU:HA	50:G5:53:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:131:C:H2'	1:13:131:C:O2	2.16	0.46
1:13:725:G:O2'	1:13:726:C:H5'	2.16	0.46
1:13:748:C:H6	1:13:748:C:O5'	1.99	0.46
1:13:1338:G:C6	1:13:1339:A:C6	3.03	0.46
5:4E:102:ALA:HA	5:4E:120:THR:OG1	2.15	0.46
7:6E:27:ILE:O	7:6E:28:ASN:C	2.59	0.46
7:6E:88:PRO:HB3	7:6E:145:ALA:O	2.15	0.46
11:2I:34:ASP:HB3	11:2I:40:ILE:HD11	1.98	0.46
19:AI:58:VAL:HG11	19:AI:75:ALA:HB1	1.97	0.46
26:1H:270(J):G:C6	26:1H:270(K):C:H1'	2.51	0.46
26:1H:323:G:H2'	31:31:169:ASN:ND2	2.31	0.46
26:1H:442:G:H4'	31:31:46:ARG:HG3	1.98	0.46
26:1H:996:A:H4'	42:C8:92:ARG:HG2	1.97	0.46
26:1H:1567:A:H5'	29:11:58:HIS:ND1	2.30	0.46
26:1H:1670:C:H3'	26:1H:1671:U:C6	2.51	0.46
26:1H:1728:G:O6	26:1H:1730:U:H5'	2.15	0.46
26:1H:1827:C:H2'	26:1H:1828:G:H5'	1.96	0.46
26:1H:1929:G:H5''	26:1H:1929:G:N3	2.30	0.46
26:1H:1930:G:O2'	26:1H:1931:U:P	2.74	0.46
26:1H:1997:G:H5'	30:21:117:MET:CE	2.44	0.46
26:1H:2144:U:O2'	26:1H:2148:G:N2	2.48	0.46
29:11:231:HIS:CD2	29:11:249:PRO:HA	2.51	0.46
34:61:71:ILE:HG23	34:61:72:LEU:N	2.31	0.46
37:78:96:THR:O	37:78:98:GLU:N	2.44	0.46
41:B8:26:ASP:HB2	41:B8:90:GLN:O	2.14	0.46
43:D8:43:GLU:HA	43:D8:43:GLU:OE2	2.16	0.46
46:G8:43:ASN:HB2	46:G8:67:LEU:HD11	1.97	0.46
49:J8:91:LYS:C	49:J8:93:GLU:N	2.74	0.46
51:L8:6:VAL:O	51:L8:34:GLU:HA	2.16	0.46
1:1G:709:G:H2'	1:1G:710:G:C8	2.50	0.46
1:1G:749:C:O2'	1:1G:750:G:H5'	2.15	0.46
1:1G:949:A:C6	1:1G:1233:G:C2	3.03	0.46
1:1G:1229:A:H2'	1:1G:1230:C:C6	2.50	0.46
1:1G:1329:A:H4'	13:4A:24:GLY:HA2	1.97	0.46
1:1G:1350:A:C2	1:1G:1351:U:C2	3.03	0.46
1:1G:1399:C:H4'	1:1G:1400:C:O5'	2.16	0.46
4:32:60:GLU:CD	4:32:199:ASN:H	2.24	0.46
5:42:105:VAL:HG21	5:42:128:PRO:HB3	1.97	0.46
6:52:42:GLU:OE1	6:52:59:TYR:HE1	1.99	0.46
9:82:121:ARG:NH1	9:82:122:ALA:O	2.49	0.46
20:BA:33:ILE:O	20:BA:37:SER:OG	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:28:A:O2'	26:14:29:U:H5'	2.16	0.46
26:14:111:A:C2	26:14:112:U:C2	3.03	0.46
26:14:569:U:H5'	26:14:946:G:H1'	1.98	0.46
26:14:589:C:H5''	31:39:95:ARG:HH12	1.79	0.46
26:14:761:A:C8	61:14:3569:HOH:O	2.68	0.46
26:14:1665:A:H2'	26:14:1666:G:O4'	2.16	0.46
26:14:2187:G:C6	26:14:2188:C:C4	3.03	0.46
29:19:11:PRO:O	29:19:12:SER:OG	2.18	0.46
30:29:76:ARG:C	30:29:78:LEU:H	2.23	0.46
32:49:5:VAL:HG12	32:49:104:GLU:OE1	2.15	0.46
32:49:20:ILE:H	32:49:20:ILE:HG13	1.63	0.46
34:69:116:LEU:HD21	34:69:119:PRO:HA	1.97	0.46
37:35:15:ARG:HG3	37:35:16:ARG:NH1	2.30	0.46
38:45:74:TYR:O	38:45:89:ASN:HA	2.15	0.46
47:D5:28:MET:HE2	47:D5:28:MET:HB3	1.68	0.46
1:13:344:A:H8	1:13:346:G:O6	1.98	0.46
1:13:643:C:H2'	1:13:644:G:H8	1.80	0.46
1:13:720:C:C4	1:13:721:G:C5	3.04	0.46
1:13:928:G:C2	1:13:1390:U:O2	2.69	0.46
1:13:1111:A:H8	1:13:1111:A:O5'	1.99	0.46
1:13:1128:C:H1'	1:13:1146:A:H61	1.81	0.46
1:13:1207:G:C5	1:13:1208:C:C5	3.03	0.46
6:5E:14:LEU:HB3	6:5E:18:GLN:HB3	1.98	0.46
8:7E:45:ILE:HB	8:7E:47:GLY:H	1.80	0.46
10:1I:26:ALA:N	10:1I:29:ARG:HH21	2.14	0.46
15:6I:64:ARG:HH12	15:6I:68:ARG:NH2	2.14	0.46
17:8I:13:ASP:HA	17:8I:19:VAL:HG12	1.97	0.46
26:1H:270(I):G:H21	26:1H:270(R):G:H1'	1.80	0.46
26:1H:443:A:C6	31:31:45:ARG:HD2	2.51	0.46
26:1H:579:G:H2'	26:1H:580:C:C6	2.50	0.46
26:1H:582:G:H2'	26:1H:583:G:H8	1.80	0.46
26:1H:1257:C:O2'	31:31:83:PHE:HA	2.16	0.46
26:1H:1337:G:H2'	26:1H:1338:G:C8	2.49	0.46
26:1H:1359:A:N1	26:1H:1372:U:C4	2.83	0.46
26:1H:1418:G:H8	26:1H:1418:G:O5'	1.99	0.46
26:1H:1442:G:C2	26:1H:1443:G:C4	3.03	0.46
26:1H:1592:C:H2'	26:1H:1593:G:H8	1.81	0.46
26:1H:1692:U:O2	26:1H:1696:G:C2	2.68	0.46
26:1H:1796:U:H2'	26:1H:1797:C:C6	2.50	0.46
26:1H:2174:C:H2'	28:71:218:MET:SD	2.56	0.46
26:1H:2315:G:C5'	26:1H:2316:C:OP2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:64:LYS:C	30:21:66:HIS:H	2.19	0.46
37:78:83:VAL:HG12	37:78:112:LEU:HD21	1.97	0.46
39:98:2:ARG:NH2	39:98:5:LYS:O	2.49	0.46
39:98:42:LYS:HA	39:98:45:ARG:HD2	1.97	0.46
41:B8:48:ILE:HD13	41:B8:114:LEU:HD12	1.98	0.46
41:B8:50:ILE:CD1	41:B8:64:ARG:HB3	2.46	0.46
1:1G:195:A:N6	1:1G:196:A:N1	2.63	0.46
1:1G:250:A:H5'	1:1G:250:A:N3	2.31	0.46
1:1G:550:G:C6	1:1G:551:U:C4	3.04	0.46
1:1G:742:G:H2'	1:1G:743:U:O4'	2.15	0.46
1:1G:746:A:H4'	1:1G:837:G:O2'	2.16	0.46
1:1G:804:U:H5''	1:1G:805:C:OP2	2.16	0.46
1:1G:818:G:H1'	1:1G:820:U:H5	1.80	0.46
1:1G:942:G:H2'	1:1G:943:U:H6	1.80	0.46
1:1G:972:C:OP2	10:1A:57:LYS:NZ	2.48	0.46
1:1G:1219:U:H3'	1:1G:1220:G:H8	1.79	0.46
1:1G:1414:U:H2'	1:1G:1415:G:H8	1.77	0.46
3:22:124:ILE:C	3:22:127:ARG:H	2.23	0.46
5:42:76:ILE:HG23	5:42:142:LEU:HD13	1.97	0.46
9:82:24:GLY:HA2	9:82:59:PHE:O	2.16	0.46
16:7A:20:VAL:HG12	16:7A:35:LYS:HA	1.98	0.46
56:1L:18:G:H1'	56:1L:19:G:H5'	1.98	0.46
26:14:753:C:OP2	26:14:753:C:C6	2.69	0.46
26:14:1356:G:C5	26:14:1357:U:C5	3.04	0.46
26:14:1542:G:O5'	26:14:1543:A:H5''	2.16	0.46
26:14:1716:U:H2'	26:14:1717:G:H8	1.79	0.46
26:14:1782:C:H1'	26:14:2609:U:O4'	2.15	0.46
26:14:2120:G:C2	26:14:2121:G:C8	3.04	0.46
26:14:2557:G:H2'	26:14:2558:C:C6	2.51	0.46
26:14:2831:G:OP1	30:29:58:ARG:NH1	2.41	0.46
27:1J:46:A:C8	27:1J:47:C:C5	3.04	0.46
31:39:178:PRO:HB2	31:39:201:VAL:HG11	1.98	0.46
32:49:47:LYS:HD3	32:49:81:LYS:HG3	1.97	0.46
37:35:63:PRO:HD3	55:M5:27:THR:CG2	2.46	0.46
1:13:104:G:C2	1:13:105:G:C8	3.03	0.46
1:13:708:C:OP1	11:2I:85:ARG:NH2	2.35	0.46
1:13:1080:A:H5'	5:4E:14:ARG:HH21	1.81	0.46
1:13:1160:G:N3	1:13:1160:G:H2'	2.30	0.46
1:13:1317:C:P	14:5I:17:LYS:HE3	2.56	0.46
1:13:1377:A:H2'	7:6E:7:ALA:CB	2.46	0.46
2:1E:183:PRO:HA	2:1E:198:ASP:OD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:4E:57:LYS:HA	5:4E:60:TYR:HB3	1.98	0.46
9:8E:59:PHE:HZ	9:8E:88:TYR:CD1	2.34	0.46
16:7I:50:LYS:HG2	16:7I:51:VAL:N	2.31	0.46
26:1H:66:C:O2'	26:1H:67:U:H5'	2.16	0.46
26:1H:768:G:H2'	26:1H:769:G:C8	2.51	0.46
26:1H:1279:G:N2	26:1H:1292:U:C2	2.84	0.46
26:1H:1503:U:C5	26:1H:1504:C:H5	2.33	0.46
26:1H:2013:A:H2'	26:1H:2014:A:H5'	1.98	0.46
26:1H:2130:U:O2	26:1H:2134:A:O2'	2.31	0.46
26:1H:2443:C:O2'	26:1H:2444:G:H5'	2.14	0.46
26:1H:2564:A:OP1	26:1H:2648:C:H4'	2.16	0.46
31:31:138:GLU:O	31:31:141:ALA:N	2.37	0.46
33:51:125:VAL:HG22	33:51:131:VAL:HG23	1.97	0.46
39:98:103:ARG:NH1	44:E8:40:ASN:OD1	2.49	0.46
46:G8:94:LYS:HA	46:G8:94:LYS:HD2	1.58	0.46
49:J8:52:ARG:NH2	49:J8:55:GLY:O	2.48	0.46
1:1G:10:A:N3	1:1G:10:A:H2'	2.30	0.46
1:1G:407:G:O4'	4:32:119:GLN:NE2	2.49	0.46
1:1G:424:G:H8	1:1G:424:G:O5'	1.99	0.46
1:1G:750:G:H21	15:6A:23:GLY:C	2.17	0.46
1:1G:864:A:P	1:1G:864:A:H8	2.38	0.46
1:1G:1186:G:C2	1:1G:1187:G:H1'	2.50	0.46
1:1G:1420:C:O5'	1:1G:1420:C:H6	1.99	0.46
2:12:185:ILE:CG1	2:12:199:TYR:HB2	2.46	0.46
4:32:89:THR:HB	5:42:97:GLY:O	2.15	0.46
4:32:173:TRP:HB2	4:32:187:ARG:O	2.16	0.46
5:42:30:ALA:O	5:42:45:PHE:HB2	2.16	0.46
5:42:107:ARG:O	5:42:111:GLU:N	2.44	0.46
12:3A:88:GLY:O	12:3A:99:HIS:HD2	1.98	0.46
13:4A:29:ARG:HD2	13:4A:64:TRP:CH2	2.50	0.46
13:4A:61:GLU:OE1	32:49:113:ARG:NH2	2.48	0.46
16:7A:36:ILE:O	16:7A:36:ILE:CG1	2.64	0.46
56:1L:54:5MU:H6	56:1L:54:5MU:O5'	1.99	0.46
26:14:155:C:N3	26:14:171:G:C2	2.84	0.46
26:14:748:G:H3'	61:14:3589:HOH:O	2.16	0.46
26:14:1198:U:H2'	26:14:1199:U:C5	2.49	0.46
26:14:1480:G:C6	26:14:1482:U:C4	3.04	0.46
32:49:103:LEU:HB3	32:49:178:PHE:CE2	2.51	0.46
32:49:123:ASN:O	32:49:123:ASN:ND2	2.41	0.46
36:25:64:ARG:HB2	36:25:83:ALA:HB3	1.96	0.46
43:95:85:LYS:HB3	43:95:87:HIS:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:B5:26:TYR:HB3	45:B5:92:LEU:HD22	1.98	0.46
54:L5:24:THR:O	54:L5:28:ARG:HG3	2.16	0.46
1:13:837:G:C2	1:13:850:U:O2	2.69	0.46
1:13:1178:G:H8	9:8E:97:LYS:NZ	2.14	0.46
2:1E:114:ARG:HE	2:1E:118:LEU:HD21	1.81	0.46
4:3E:20:TYR:CE2	6:52:15:ASP:HB2	2.51	0.46
4:3E:79:PHE:CZ	4:3E:204:ILE:HA	2.51	0.46
5:4E:15:ARG:NH1	25:4K:25:A:H1'	2.31	0.46
8:7E:81:HIS:HB2	8:7E:138:TRP:CE3	2.51	0.46
10:1I:9:ARG:HH22	10:1I:97:GLU:CD	2.24	0.46
15:6I:24:SER:HB3	15:6I:27:VAL:HG23	1.98	0.46
26:1H:356:G:H2'	26:1H:357:A:C8	2.51	0.46
26:1H:569:U:H5''	26:1H:821:A:C2	2.50	0.46
26:1H:836:G:H3'	26:1H:837:C:H6	1.81	0.46
26:1H:859:G:O2'	26:1H:916:G:O6	2.28	0.46
26:1H:1453:A:O2'	26:1H:1454:U:H2'	2.16	0.46
26:1H:1652:A:N6	39:98:11:ASN:OD1	2.49	0.46
26:1H:2016:U:OP1	61:1H:3557:HOH:O	2.21	0.46
26:1H:2321:G:H5''	26:1H:2322:A:OP2	2.16	0.46
33:51:9:ILE:HB	33:51:49:VAL:HB	1.98	0.46
41:B8:107:ASP:OD1	41:B8:109:GLU:HB2	2.15	0.46
42:C8:92:ARG:HD3	42:C8:94:ASN:HB3	1.97	0.46
44:E8:58:ALA:HB1	44:E8:64:MET:CG	2.46	0.46
47:H8:10:ARG:HD3	47:H8:38:TYR:HB3	1.97	0.46
49:J8:81:LYS:HD3	49:J8:81:LYS:HA	1.35	0.46
1:1G:4:U:H4'	1:1G:5:U:OP1	2.16	0.46
1:1G:538:G:H5''	12:3A:114:LYS:HB2	1.98	0.46
1:1G:836:G:C6	1:1G:851:G:C6	3.04	0.46
1:1G:862:C:H1'	1:1G:874:G:H5''	1.96	0.46
1:1G:1002:G:C6	1:1G:1003:G:H1'	2.50	0.46
1:1G:1076:C:N4	1:1G:1081:G:H1	2.07	0.46
1:1G:1128:C:H5''	9:82:16:ARG:NH2	2.23	0.46
1:1G:1240:U:N3	7:62:32:ARG:HG3	2.32	0.46
1:1G:1263:C:H3'	1:1G:1264:C:H6	1.80	0.46
1:1G:1490:C:H2'	1:1G:1491:G:O4'	2.16	0.46
3:22:61:ALA:O	3:22:63:ASN:N	2.49	0.46
12:3A:27:LEU:HD12	12:3A:33:ARG:HG2	1.98	0.46
16:7A:45:THR:O	16:7A:48:TRP:HD1	1.99	0.46
26:14:26:G:C6	26:14:27:G:N1	2.84	0.46
26:14:210:C:H2'	26:14:211:A:C8	2.51	0.46
26:14:807:U:H2'	26:14:808:G:O5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1799:G:O6	29:19:178:PRO:HD2	2.16	0.46
27:1J:74:U:H2'	27:1J:75:G:C8	2.51	0.46
30:29:64:LYS:C	30:29:66:HIS:H	2.24	0.46
31:39:7:TYR:HE2	31:39:10:PRO:HG2	1.81	0.46
32:49:31:VAL:O	32:49:33:ARG:HG3	2.16	0.46
34:69:101:LEU:HD23	34:69:101:LEU:H	1.81	0.46
38:45:102:VAL:O	38:45:102:VAL:HG12	2.16	0.46
43:95:71:LEU:HA	43:95:71:LEU:HD13	1.51	0.46
48:E5:50:ASN:C	48:E5:62:LEU:HB2	2.40	0.46
50:G5:33:MET:HG3	50:G5:37:PHE:HE1	1.80	0.46
1:13:131:C:O2'	1:13:262:A:N3	2.35	0.45
1:13:168:G:H21	1:13:169:C:H5	1.63	0.45
1:13:186(B):C:H4'	20:BI:89:ARG:NH1	2.30	0.45
1:13:476:G:H2'	1:13:477:G:C8	2.51	0.45
1:13:895:G:H2'	1:13:896:C:C6	2.51	0.45
1:13:963:G:H4'	61:13:1858:HOH:O	2.16	0.45
1:13:1128:C:H2'	1:13:1139:G:O6	2.17	0.45
1:13:1175:G:H2'	1:13:1176:A:C8	2.51	0.45
2:1E:30:ARG:HD3	2:1E:31:TYR:CZ	2.52	0.45
8:7E:34:GLU:OE2	8:7E:37:ARG:HD3	2.15	0.45
8:7E:86:ILE:HG22	8:7E:87:SER:N	2.27	0.45
12:3I:24:VAL:HB	12:3I:27:LEU:HD12	1.97	0.45
12:3I:66:VAL:HG21	12:3I:98:TYR:CE1	2.51	0.45
13:4I:14:ARG:HD3	13:4I:16:ASP:OD1	2.15	0.45
26:1H:152:G:H2'	26:1H:153:C:C6	2.51	0.45
26:1H:442:G:C4	26:1H:444:C:C5	3.04	0.45
26:1H:459:U:H2'	26:1H:460:A:C8	2.51	0.45
26:1H:528:A:N1	26:1H:2042:A:H2'	2.31	0.45
26:1H:606:U:H4'	26:1H:658:C:H4'	1.98	0.45
26:1H:880:G:H8	26:1H:895:U:O4	1.99	0.45
26:1H:1337:G:C4	26:1H:1338:G:C8	3.05	0.45
26:1H:1401:G:H2'	26:1H:1402:C:H6	1.78	0.45
26:1H:1753:G:N1	26:1H:1756:G:C2	2.84	0.45
26:1H:2151:G:H2'	26:1H:2152:G:H8	1.81	0.45
26:1H:2166:G:O2'	26:1H:2168:G:OP2	2.31	0.45
26:1H:2572:A:N7	30:21:145:LYS:HB2	2.31	0.45
26:1H:2593:U:H2'	26:1H:2594:C:C6	2.52	0.45
28:71:181:PRO:O	28:71:185:LEU:HB2	2.17	0.45
29:11:63:ARG:HG2	29:11:92:ILE:HD13	1.98	0.45
32:41:96:ARG:HH11	32:41:96:ARG:CB	2.23	0.45
33:51:4:ILE:CG1	33:51:6:ARG:HD3	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:126:PRO:HG2	33:51:130:ARG:NH1	2.27	0.45
34:61:124:GLY:H	34:61:142:VAL:HG23	1.81	0.45
35:58:17:ASP:O	35:58:56:ASN:HB2	2.16	0.45
37:78:49:ARG:HH12	37:78:50:ARG:HH22	1.64	0.45
40:A8:26:LEU:CD2	40:A8:87:PHE:HD1	2.28	0.45
40:A8:61:ASN:O	40:A8:65:VAL:HG23	2.16	0.45
41:B8:23:ARG:O	41:B8:24:PRO:C	2.57	0.45
1:1G:57:G:C6	1:1G:58:C:C4	3.05	0.45
1:1G:160:A:H2'	1:1G:161:A:O4'	2.15	0.45
1:1G:596:C:H2'	1:1G:597:G:H8	1.79	0.45
1:1G:942:G:C2	1:1G:1342:C:C2	3.04	0.45
1:1G:951:G:N2	1:1G:1231:G:C4	2.84	0.45
1:1G:1068:G:N3	1:1G:1191:A:C2	2.84	0.45
1:1G:1275:A:H2'	1:1G:1276:G:H8	1.81	0.45
1:1G:1298:C:H4'	1:1G:1299:A:C5	2.51	0.45
6:52:97:PHE:CB	18:9A:32:ARG:HG3	2.45	0.45
8:72:20:TYR:HA	8:72:65:TYR:CZ	2.51	0.45
15:6A:10:LYS:O	15:6A:13:GLN:HB2	2.16	0.45
17:8A:9:VAL:O	17:8A:21:VAL:HA	2.17	0.45
18:9A:30:ASP:HB3	18:9A:33:ASP:HB2	1.96	0.45
23:2L:23:G:H2'	23:2L:24:C:C6	2.51	0.45
57:3L:76:A:C8	26:14:2394:C:N4	2.84	0.45
26:14:194:G:H2'	26:14:195:A:O4'	2.15	0.45
26:14:676:A:H1'	26:14:2443:C:H1'	1.97	0.45
26:14:708:C:H42	26:14:723:G:H1	1.64	0.45
26:14:817:C:O2'	26:14:839:U:OP1	2.20	0.45
26:14:901:A:H3'	26:14:902:C:C6	2.51	0.45
26:14:1963:U:OP2	26:14:1963:U:H4'	2.15	0.45
26:14:2120:G:N3	26:14:2120:G:H2'	2.31	0.45
26:14:2256:G:H2'	26:14:2257:U:O4'	2.17	0.45
27:1J:15:A:H1'	27:1J:109:G:C4	2.52	0.45
27:1J:93:C:C4	27:1J:94:C:C5	3.04	0.45
27:1J:117:G:N1	27:1J:118:G:N7	2.63	0.45
32:49:106:LEU:HA	32:49:110:ALA:HB3	1.98	0.45
35:15:91:LEU:HA	35:15:91:LEU:HD23	1.57	0.45
41:75:91:ARG:HB2	41:75:121:ILE:HG12	1.99	0.45
54:L5:22:MET:HE3	54:L5:22:MET:HB3	1.80	0.45
1:13:373:A:C2	1:13:482:A:C6	3.04	0.45
1:13:678:U:H2'	1:13:679:C:C6	2.51	0.45
1:13:690:G:H2'	1:13:691:G:O4'	2.16	0.45
1:13:1072:G:C6	1:13:1073:U:C4	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:110:PHE:CE2	4:3E:148:VAL:HG23	2.50	0.45
5:4E:10:MET:CB	5:4E:32:VAL:HG22	2.45	0.45
5:4E:45:PHE:CE2	5:4E:47:LYS:HE3	2.52	0.45
5:4E:144:THR:HG22	5:4E:145:LYS:HD2	1.97	0.45
5:4E:152:ARG:HA	8:7E:64:LYS:HE2	1.98	0.45
8:7E:60:ARG:HH11	8:7E:60:ARG:HB2	1.80	0.45
9:8E:11:LYS:C	9:8E:13:ALA:H	2.24	0.45
9:8E:40:LEU:HD11	9:8E:70:LYS:HB3	1.97	0.45
11:2I:78:GLN:O	11:2I:103:LEU:HD12	2.16	0.45
23:2K:16:C:H2'	23:2K:17:C:C5	2.51	0.45
24:3K:19:G:H1	26:1H:2112:G:H1'	1.81	0.45
26:1H:67:U:H2'	26:1H:68:G:C8	2.52	0.45
26:1H:74:A:H5''	26:1H:74:A:C8	2.51	0.45
26:1H:343:C:C2'	26:1H:344:G:H5'	2.46	0.45
26:1H:618:G:H2'	26:1H:618(A):C:C6	2.51	0.45
26:1H:1003:G:N2	26:1H:1004:C:C2	2.84	0.45
26:1H:1003:G:C2	26:1H:1004:C:C4	3.05	0.45
26:1H:1655:A:H3'	26:1H:1656:C:H6	1.81	0.45
26:1H:1690:A:C8	26:1H:1691:C:C6	3.05	0.45
26:1H:2392:A:C8	37:78:61:ARG:HD2	2.51	0.45
26:1H:2729:G:H2'	26:1H:2730:C:C6	2.52	0.45
26:1H:2746:U:O4'	33:51:139:GLN:HG2	2.16	0.45
26:1H:2821:A:H2'	26:1H:2822:G:O4'	2.16	0.45
27:16:4:C:N4	27:16:116:G:H1	2.12	0.45
29:11:30:GLU:HG3	29:11:63:ARG:CZ	2.46	0.45
30:21:47:VAL:O	30:21:80:GLU:HA	2.16	0.45
30:21:175:VAL:HG12	30:21:177:PRO:HD3	1.98	0.45
31:31:139:PHE:HB2	31:31:166:ALA:HB1	1.97	0.45
37:78:28:GLY:O	37:78:29:LYS:C	2.59	0.45
41:B8:12:SER:OG	41:B8:15:VAL:HG13	2.17	0.45
46:G8:36:ALA:HB1	46:G8:67:LEU:O	2.16	0.45
52:M8:14:ILE:HG23	52:M8:21:VAL:HB	1.97	0.45
1:1G:317:G:H1	1:1G:336:C:N4	2.14	0.45
1:1G:638:G:H2'	1:1G:639:G:H8	1.81	0.45
1:1G:646:U:H2'	1:1G:647:C:C6	2.51	0.45
1:1G:690:G:H2'	1:1G:691:G:O4'	2.16	0.45
1:1G:722:A:C8	1:1G:724:G:H1'	2.51	0.45
1:1G:882:C:O2'	1:1G:883:C:H5'	2.16	0.45
1:1G:1081:G:H2'	1:1G:1082:G:C8	2.51	0.45
1:1G:1099:G:C6	1:1G:1100:C:N3	2.84	0.45
1:1G:1217:C:H2'	1:1G:1218:C:C2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1224:G:H22	1:1G:1323:G:H5'	1.81	0.45
1:1G:1237:C:OP1	1:1G:1238:A:H1'	2.16	0.45
1:1G:1349:A:H2'	1:1G:1350:A:O4'	2.15	0.45
1:1G:1489:G:H2'	1:1G:1490:C:O4'	2.15	0.45
2:12:87:ARG:HH22	2:12:216:SER:HB2	1.82	0.45
4:32:13:ARG:HD2	4:32:38:TYR:O	2.16	0.45
7:62:16:LEU:HD21	9:82:45:ALA:HB2	1.98	0.45
8:72:8:ASP:O	8:72:12:ARG:N	2.43	0.45
12:3A:12:ARG:HH11	12:3A:12:ARG:HD3	1.63	0.45
13:4A:67:GLU:HG3	13:4A:68:GLY:H	1.80	0.45
15:6A:84:LYS:HE2	15:6A:84:LYS:HB2	1.77	0.45
20:BA:97:ALA:HA	20:BA:98:PRO:HD3	1.71	0.45
23:2L:54:G:C2	23:2L:55:5MU:C2	3.05	0.45
57:3L:56:C:H2'	57:3L:57:G:C8	2.50	0.45
26:14:214:G:H4'	26:14:214:G:OP1	2.15	0.45
26:14:1586:A:C2	26:14:1587:A:C5	3.05	0.45
26:14:1992:G:O5'	26:14:1992:G:H8	1.98	0.45
26:14:2108:C:OP1	26:14:2151:G:H5'	2.17	0.45
26:14:2137:C:C4	26:14:2138:C:C4	3.05	0.45
26:14:2313:C:O4'	32:49:40:ASN:ND2	2.49	0.45
26:14:2784:C:H2'	26:14:2785:C:C6	2.51	0.45
26:14:2888:C:H2'	26:14:2889:C:C6	2.51	0.45
30:29:13:ARG:HH22	41:75:77:PRO:HB3	1.81	0.45
34:69:76:THR:HG21	34:69:140:LEU:HD13	1.97	0.45
36:25:96:THR:O	36:25:117:LEU:HD21	2.16	0.45
42:85:70:ARG:CZ	42:85:75:ASN:HB3	2.47	0.45
1:13:452:A:O2'	16:7I:72:ARG:HG3	2.16	0.45
1:13:658:G:C6	1:13:659:U:C4	3.05	0.45
1:13:929:G:C6	1:13:930:C:C4	3.04	0.45
1:13:1199:U:H5'	10:1I:54:PHE:CE2	2.52	0.45
16:7I:28:ARG:HG3	16:7I:29:ASP:H	1.79	0.45
23:2K:64:G:O5'	23:2K:64:G:H8	1.99	0.45
26:1H:661:C:O2'	37:78:13:ASN:HA	2.17	0.45
26:1H:744:G:H1	26:1H:753:C:H42	1.64	0.45
26:1H:900:A:H2'	26:1H:901:A:C8	2.51	0.45
26:1H:1534:G:H21	26:1H:1538:G:N2	2.14	0.45
26:1H:1536:A:H5''	26:1H:1537:C:H5	1.81	0.45
26:1H:1604:C:C5'	61:1H:4029:HOH:O	2.61	0.45
26:1H:1993:U:H4'	30:21:128:SER:HB3	1.98	0.45
26:1H:2287:A:N3	26:1H:2289:G:C8	2.84	0.45
26:1H:2820:A:P	39:98:2:ARG:HH12	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:16:52:A:N6	40:A8:33:LYS:HD2	2.30	0.45
28:71:215:THR:OG1	28:71:219:GLY:O	2.35	0.45
31:31:40:GLN:OE1	31:31:184:TYR:HB2	2.16	0.45
36:68:8:LEU:HD13	36:68:8:LEU:HA	1.76	0.45
37:78:18:ARG:O	37:78:19:VAL:O	2.33	0.45
38:88:32:TYR:CE1	38:88:133:ARG:HD3	2.47	0.45
40:A8:88:ASP:O	40:A8:89:ARG:CG	2.65	0.45
41:B8:12:SER:CB	41:B8:15:VAL:HG13	2.47	0.45
41:B8:19:LEU:HD23	41:B8:19:LEU:HA	1.68	0.45
41:B8:66:VAL:HA	41:B8:71:GLY:HA2	1.97	0.45
42:C8:49:HIS:HA	42:C8:52:ARG:HG2	1.97	0.45
42:C8:80:ILE:O	42:C8:84:LYS:N	2.44	0.45
44:E8:56:ALA:C	44:E8:58:ALA:N	2.74	0.45
49:J8:40:ARG:NH2	49:J8:41:ARG:O	2.49	0.45
50:K8:63:VAL:HA	50:K8:66:GLU:HG2	1.99	0.45
53:N8:9:LYS:HD3	53:N8:9:LYS:HA	1.84	0.45
55:Q8:38:GLY:O	55:Q8:42:ARG:HB3	2.16	0.45
1:1G:153:C:H42	1:1G:168:G:H1	1.63	0.45
1:1G:186:C:N4	1:1G:186(A):C:H41	2.14	0.45
1:1G:389:A:H5'	1:1G:390:C:OP2	2.17	0.45
1:1G:998(A):C:H1'	1:1G:1042:G:H1	1.81	0.45
1:1G:1072:G:C2	1:1G:1073:U:C2	3.04	0.45
4:32:121:VAL:O	4:32:134:ASP:HA	2.17	0.45
5:42:89:ILE:HD12	5:42:122:GLU:HA	1.99	0.45
9:82:46:ALA:HB2	9:82:74:ILE:CG2	2.47	0.45
19:AA:56:GLN:HE22	19:AA:59:PRO:CG	2.28	0.45
26:14:90:U:O2'	26:14:91:A:H8	1.98	0.45
26:14:111:A:C6	26:14:112:U:C4	3.04	0.45
26:14:142:G:H1'	45:B5:37:THR:CG2	2.45	0.45
26:14:259:G:N2	26:14:621:A:C8	2.81	0.45
26:14:671:C:OP1	37:35:42:SER:O	2.33	0.45
26:14:928:G:C2	26:14:929:G:H1'	2.52	0.45
26:14:1040:C:H5''	47:D5:46:LYS:NZ	2.32	0.45
26:14:1144:G:C6	26:14:1145:C:N4	2.84	0.45
26:14:1729:A:C6	26:14:1731:G:C5	3.04	0.45
26:14:1767:C:C2'	26:14:1768:U:H5'	2.47	0.45
26:14:2173:A:HO2'	26:14:2174:C:P	2.36	0.45
26:14:2261:C:O2'	26:14:2262:U:H5'	2.17	0.45
26:14:2680:C:H5'	30:29:189:PRO:HA	1.99	0.45
29:19:25:THR:OG1	29:19:26:LYS:N	2.47	0.45
29:19:146:GLU:HB2	29:19:189:CYS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:192:LEU:O	31:39:193:VAL:HG23	2.15	0.45
35:15:56:ASN:HA	35:15:58:ASP:OD1	2.16	0.45
35:15:64:GLY:C	35:15:66:LYS:H	2.23	0.45
36:25:17:ARG:HG2	36:25:47:ILE:HD13	1.98	0.45
41:75:61:PHE:N	41:75:61:PHE:CD1	2.84	0.45
42:85:65:ILE:O	42:85:68:ALA:N	2.49	0.45
43:95:61:VAL:HG12	43:95:62:LEU:O	2.16	0.45
46:C5:42:VAL:HG12	46:C5:67:LEU:CD2	2.46	0.45
47:D5:44:PHE:HD1	47:D5:44:PHE:C	2.25	0.45
47:D5:44:PHE:C	47:D5:44:PHE:CD1	2.94	0.45
48:E5:48:GLY:HA3	48:E5:80:HIS:CE1	2.51	0.45
1:13:181:G:N2	1:13:183:G:H22	2.14	0.45
1:13:189:U:C2	17:8I:72:ARG:NH1	2.85	0.45
1:13:1320:C:O2	19:AI:36:ARG:NH2	2.46	0.45
1:13:1347:G:N2	1:13:1373:G:H2'	2.31	0.45
4:3E:148:VAL:HG12	4:3E:149:ALA:O	2.16	0.45
4:3E:162:LEU:HD12	4:3E:181:MET:HE3	1.97	0.45
12:3I:86:ARG:HH11	12:3I:86:ARG:HD3	1.60	0.45
19:AI:18:LYS:NZ	19:AI:22:LEU:HD13	2.27	0.45
22:1K:60:U:H3'	22:1K:61:C:C5	2.51	0.45
26:1H:78:A:C2	26:1H:109:G:C2	3.04	0.45
26:1H:611:C:H2'	26:1H:612:G:O4'	2.16	0.45
26:1H:633:A:H2'	26:1H:634:C:H5'	1.97	0.45
26:1H:902:C:O2'	26:1H:903:C:H5'	2.16	0.45
26:1H:1230:C:H2'	26:1H:1231:G:H8	1.79	0.45
26:1H:1439:A:C8	26:1H:1440:G:C8	3.05	0.45
26:1H:1812:A:O2'	29:11:45:ASN:N	2.45	0.45
26:1H:2058:A:C6	26:1H:2059:A:N6	2.84	0.45
26:1H:2745:C:O2	33:51:139:GLN:NE2	2.49	0.45
31:31:64:ILE:HD12	31:31:64:ILE:HA	1.57	0.45
31:31:192:LEU:HD23	31:31:193:VAL:H	1.82	0.45
32:41:111:LEU:HB3	32:41:117:PHE:CE2	2.50	0.45
37:78:2:LYS:HE2	37:78:2:LYS:HB2	1.80	0.45
40:A8:56:LEU:C	40:A8:58:LEU:HD22	2.41	0.45
42:C8:39:LEU:O	42:C8:40:PHE:C	2.59	0.45
44:E8:80:PRO:HD2	44:E8:100:THR:HG21	1.98	0.45
45:F8:29:TRP:CZ3	45:F8:78:LYS:HD3	2.52	0.45
46:G8:61:ILE:HG21	46:G8:63:LYS:HD3	1.96	0.45
47:H8:101:PRO:O	47:H8:102:LEU:HD23	2.16	0.45
55:Q8:6:THR:HG23	55:Q8:64:TYR:CD2	2.36	0.45
1:1G:66:G:C2	1:1G:67:C:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:364:A:H61	12:3A:28:LYS:NZ	2.14	0.45
1:1G:456:C:N3	1:1G:476:G:N2	2.60	0.45
1:1G:830:G:H2'	1:1G:831:U:O4'	2.16	0.45
1:1G:992:U:H4'	1:1G:993:G:O5'	2.16	0.45
1:1G:1047:G:H1	1:1G:1210:C:H42	1.64	0.45
1:1G:1184:G:H8	1:1G:1184:G:O5'	1.99	0.45
1:1G:1370:G:O2'	1:1G:1371:G:H5'	2.16	0.45
2:12:73:THR:HG21	2:12:97:TRP:H	1.81	0.45
4:32:45:GLN:O	4:32:46:LYS:HG3	2.17	0.45
4:32:61:LYS:HE3	4:32:62:GLN:HG2	1.99	0.45
9:82:86:VAL:CG1	9:82:90:PRO:HA	2.46	0.45
13:4A:96:LEU:HD13	13:4A:97:PRO:CD	2.46	0.45
18:9A:84:LYS:HD3	18:9A:84:LYS:N	2.25	0.45
26:14:104:U:H3'	26:14:105:C:H6	1.81	0.45
26:14:241:A:H5'	26:14:243:U:O4'	2.17	0.45
26:14:315:G:C5	26:14:316:C:C5	3.04	0.45
26:14:654(A):A:H2'	26:14:654(T):A:C6	2.51	0.45
26:14:686:G:N2	26:14:788:A:H61	2.15	0.45
26:14:1478:G:C2	26:14:1479:G:C8	3.04	0.45
26:14:1668:A:C8	26:14:1674:G:C6	3.05	0.45
26:14:1697:G:OP2	26:14:1698:A:O2'	2.23	0.45
26:14:1785:A:H4'	26:14:1982:C:O2'	2.15	0.45
26:14:2115:G:N2	26:14:2116:G:O6	2.50	0.45
26:14:2593:U:H2'	26:14:2594:C:C6	2.50	0.45
26:14:2716:U:H2'	26:14:2717:G:C8	2.51	0.45
29:19:145:VAL:HG22	29:19:191:ALA:HB1	1.98	0.45
30:29:39:PRO:HA	30:29:43:GLY:CA	2.47	0.45
31:39:63:LYS:HA	31:39:76:GLY:O	2.16	0.45
32:49:103:LEU:HG	32:49:103:LEU:H	1.31	0.45
34:69:60:GLU:HG3	34:69:61:ARG:N	2.30	0.45
35:15:36:GLY:H	35:15:42:TRP:HZ3	1.64	0.45
36:25:50:GLY:H	36:25:53:LYS:HE3	1.82	0.45
39:55:97:VAL:HA	39:55:113:LEU:O	2.16	0.45
44:A5:23:LEU:HD12	44:A5:23:LEU:HA	1.71	0.45
1:13:303:A:C6	1:13:304:U:C4	3.04	0.45
1:13:474:G:C4	1:13:475:G:C8	3.04	0.45
1:13:621:A:H2'	1:13:622:A:O4'	2.16	0.45
1:13:1239:A:H4'	1:13:1240:U:H5''	1.98	0.45
1:13:1318:A:H1'	19:AI:37:ARG:HH21	1.81	0.45
1:13:1349:A:C2	1:13:1350:A:H1'	2.52	0.45
2:1E:97:TRP:CH2	2:1E:176:GLU:OE2	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:36:ARG:HB3	4:3E:38:TYR:CZ	2.52	0.45
4:3E:90:GLY:O	4:3E:93:PHE:HB3	2.16	0.45
5:4E:69:VAL:O	5:4E:71:LEU:HD12	2.17	0.45
17:8I:53:LEU:HB3	17:8I:82:MET:SD	2.56	0.45
23:2K:73:A:C6	23:2K:74:A:C6	3.05	0.45
26:1H:52:A:H2'	26:1H:53:A:O4'	2.16	0.45
26:1H:71:A:H4'	26:1H:72:U:H5''	1.99	0.45
26:1H:488:G:N2	26:1H:492:A:OP2	2.49	0.45
26:1H:566:U:H4'	26:1H:809:G:OP2	2.17	0.45
26:1H:709:U:H2'	26:1H:710:G:C8	2.51	0.45
26:1H:771:G:N7	61:1H:3622:HOH:O	2.35	0.45
26:1H:803:U:C4	26:1H:804:A:N7	2.85	0.45
26:1H:916:G:C2'	26:1H:917:A:H5''	2.47	0.45
26:1H:994:C:O2'	26:1H:996:A:OP1	2.33	0.45
26:1H:1042:G:H1	26:1H:1113:U:H3	1.64	0.45
26:1H:1416:G:H2'	26:1H:1417:C:C5	2.51	0.45
26:1H:1420:U:O2'	26:1H:1421:G:P	2.74	0.45
26:1H:1515:C:H2'	26:1H:1516:U:C6	2.51	0.45
26:1H:1815:A:C5	26:1H:1817:G:C6	3.03	0.45
26:1H:2139:C:N4	26:1H:2152:G:H1	2.14	0.45
26:1H:2379:G:O2'	40:A8:17:ARG:NH1	2.50	0.45
26:1H:2663:G:H3'	26:1H:2664:G:H8	1.82	0.45
27:16:116:G:H2'	27:16:117:G:O4'	2.17	0.45
29:11:83:GLU:OE2	29:11:104:TYR:CE1	2.69	0.45
32:41:145:THR:C	32:41:147:ASP:H	2.24	0.45
34:61:7:GLU:HA	34:61:15:VAL:HG22	1.99	0.45
42:C8:74:LEU:CD1	42:C8:74:LEU:C	2.89	0.45
42:C8:108:GLU:HG3	43:D8:44:LYS:HE2	1.98	0.45
45:F8:24:GLY:H	45:F8:82:GLN:HE22	1.65	0.45
46:G8:89:PHE:HD1	46:G8:90:LEU:N	2.14	0.45
50:K8:57:ILE:HG22	50:K8:61:LEU:HD12	1.97	0.45
53:N8:40:LYS:HE2	53:N8:47:PRO:CD	2.47	0.45
1:1G:54:C:O2	1:1G:357:G:N2	2.36	0.45
1:1G:983:A:H2	1:1G:984:C:C6	2.34	0.45
1:1G:1359:C:H5'	14:5A:22:THR:OG1	2.16	0.45
1:1G:1368:G:H5'	9:82:112:LYS:HD2	1.98	0.45
4:32:108:LEU:HD21	4:32:183:GLY:HA3	1.99	0.45
7:62:65:ALA:HB1	7:62:127:ALA:HB3	1.99	0.45
7:62:69:VAL:HG21	7:62:104:LEU:CD1	2.46	0.45
9:82:19:LEU:HB2	9:82:87:GLN:OE1	2.15	0.45
11:2A:51:LYS:HB3	11:2A:51:LYS:HE2	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8A:76:LEU:HD11	17:8A:79:SER:HB3	1.98	0.45
26:14:213:A:H5''	26:14:214:G:OP2	2.17	0.45
26:14:307:G:O2'	26:14:309:G:N7	2.40	0.45
26:14:441:U:H2'	26:14:442:G:C8	2.52	0.45
26:14:571:A:H5'	26:14:2030:A:N7	2.32	0.45
26:14:860:U:C1'	26:14:2268:A:H5'	2.47	0.45
26:14:950:G:C6	26:14:951:C:C4	3.04	0.45
26:14:1505:C:H2'	26:14:1506:C:C6	2.51	0.45
26:14:1680:U:H2'	26:14:1681:G:O4'	2.16	0.45
26:14:2021:C:OP1	53:J5:12:SER:OG	2.27	0.45
26:14:2219:G:OP1	29:19:172:TYR:OH	2.32	0.45
26:14:2256:G:C5	26:14:2257:U:C5	3.05	0.45
26:14:2582:G:C2	26:14:2583:G:C8	3.04	0.45
26:14:2636:U:H3	26:14:2782:G:H1	1.63	0.45
29:19:177:LEU:HD23	29:19:177:LEU:HA	1.70	0.45
30:29:102:VAL:HB	30:29:199:ARG:O	2.17	0.45
32:49:37:VAL:O	32:49:94:LEU:HB2	2.16	0.45
32:49:143:GLU:N	32:49:143:GLU:OE2	2.50	0.45
35:15:93:THR:HG22	35:15:94:HIS:CE1	2.51	0.45
39:55:103:ARG:HH21	44:A5:40:ASN:CG	2.15	0.45
46:C5:9:LYS:HG2	46:C5:10:GLY:N	2.32	0.45
47:D5:80:ARG:HD2	47:D5:80:ARG:N	2.32	0.45
1:13:509:A:H5'	4:3E:54:TYR:HD2	1.82	0.45
1:13:818:G:HO2'	1:13:820:U:H6	1.63	0.45
1:13:830:G:H2'	1:13:831:U:O4'	2.17	0.45
1:13:963:G:N2	10:1I:55:LYS:NZ	2.65	0.45
1:13:1497:G:C2'	1:13:1498:U:H5'	2.47	0.45
1:13:1507:A:OP2	25:4K:12:A:H2	1.99	0.45
6:5E:72:VAL:HG13	6:5E:73:ASN:N	2.32	0.45
7:6E:17:VAL:HG13	7:6E:18:TYR:H	1.82	0.45
10:1I:54:PHE:CZ	10:1I:55:LYS:NZ	2.80	0.45
12:3I:117:ARG:CZ	12:3I:117:ARG:HB2	2.45	0.45
13:4I:9:ILE:HB	32:41:146:TYR:HE2	1.81	0.45
15:6I:39:LEU:O	15:6I:42:HIS:N	2.49	0.45
15:6I:63:ARG:HG2	15:6I:67:LEU:HD12	1.98	0.45
16:7I:21:VAL:HG23	16:7I:33:ILE:HB	1.97	0.45
20:BI:35:THR:HG22	20:BI:38:LYS:NZ	2.31	0.45
20:BI:49:ALA:O	20:BI:52:ALA:N	2.50	0.45
20:BI:59:ALA:O	20:BI:62:LEU:N	2.49	0.45
24:3K:33:U:C2'	24:3K:34:U:O5'	2.64	0.45
26:1H:116:C:H2'	26:1H:117:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:270(N):G:H21	34:61:50:ARG:HH22	1.65	0.45
26:1H:321:G:H5''	31:31:136:THR:HG23	1.98	0.45
26:1H:329:G:H8	26:1H:329:G:OP1	2.00	0.45
26:1H:850:C:H5''	51:L8:18:ASP:HB2	1.98	0.45
26:1H:1048:A:H5'	26:1H:1049:C:OP2	2.17	0.45
26:1H:2061:G:N2	26:1H:2063:C:C2	2.84	0.45
26:1H:2177:C:O4'	28:71:44:HIS:CD2	2.70	0.45
26:1H:2330:G:H2'	26:1H:2331:G:O4'	2.16	0.45
26:1H:2653:U:C4	26:1H:2654:A:C5	3.05	0.45
28:71:14:VAL:HG13	28:71:222:VAL:HB	1.98	0.45
28:71:212:VAL:CG2	28:71:226:PRO:HG3	2.43	0.45
31:31:53:THR:O	31:31:54:ARG:C	2.60	0.45
32:41:21:ARG:HH11	32:41:22:ARG:HG3	1.82	0.45
32:41:110:ALA:HA	32:41:140:ILE:O	2.17	0.45
37:78:24:GLY:O	37:78:25:SER:HB3	2.16	0.45
44:E8:70:TYR:N	44:E8:70:TYR:HD1	2.14	0.45
46:G8:9:LYS:HA	46:G8:27:VAL:CG2	2.46	0.45
46:G8:94:LYS:CG	46:G8:95:LYS:N	2.78	0.45
48:I8:34:GLY:O	48:I8:35:ASN:C	2.58	0.45
49:J8:93:GLU:OE2	49:J8:94:LEU:CD1	2.64	0.45
52:M8:47:GLN:OE1	52:M8:47:GLN:N	2.50	0.45
1:1G:445:G:N2	1:1G:490:G:N3	2.65	0.45
1:1G:615:C:H2'	1:1G:616:G:C8	2.52	0.45
1:1G:631:G:O5'	8:72:98:LYS:NZ	2.47	0.45
1:1G:715:A:H2'	1:1G:716:A:C8	2.52	0.45
1:1G:1010:G:H2'	1:1G:1011:G:C8	2.51	0.45
1:1G:1256:A:P	3:22:27:LYS:HZ1	2.37	0.45
1:1G:1419:G:C6	1:1G:1482:G:C2	3.05	0.45
2:12:16:HIS:N	2:12:16:HIS:CD2	2.84	0.45
4:32:82:ALA:HB1	4:32:89:THR:HA	1.99	0.45
4:32:82:ALA:HB3	4:32:89:THR:HG23	1.98	0.45
7:62:146:GLU:CG	7:62:147:ALA:H	2.29	0.45
9:82:69:GLY:O	9:82:72:GLY:N	2.45	0.45
13:4A:34:LEU:HG	13:4A:35:GLU:N	2.32	0.45
26:14:270(X):G:O6	26:14:270(Y):G:N1	2.50	0.45
26:14:814:C:OP1	43:95:83:ARG:HG2	2.16	0.45
26:14:816:C:H2'	26:14:817:C:C6	2.52	0.45
26:14:1090:U:N3	26:14:1102:C:O2	2.47	0.45
26:14:1418:G:H8	26:14:1418:G:O5'	1.99	0.45
26:14:1668:A:O2'	26:14:1674:G:N7	2.37	0.45
26:14:1910:G:H1	26:14:1920:C:H42	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2180:U:H2'	26:14:2181:G:C8	2.51	0.45
26:14:2766:G:H5''	26:14:2767:C:OP2	2.16	0.45
27:1J:21:G:H1	27:1J:62:C:N4	2.15	0.45
29:19:73:VAL:O	29:19:75:ILE:HG13	2.17	0.45
29:19:118:VAL:HG22	29:19:119:ALA:N	2.32	0.45
29:19:133:LEU:HD13	29:19:173:VAL:HG21	1.98	0.45
29:19:261:LYS:HE3	29:19:263:ARG:NH2	2.32	0.45
30:29:53:PRO:CA	30:29:74:PRO:HB3	2.45	0.45
42:85:83:LEU:HD21	42:85:113:ALA:HB2	1.98	0.45
45:B5:12:VAL:HG22	45:B5:27:THR:O	2.17	0.45
47:D5:39:VAL:HG21	47:D5:44:PHE:CD2	2.51	0.45
48:E5:46:LYS:HA	48:E5:47:PRO:HD3	1.65	0.45
1:13:54:C:N4	1:13:353:A:OP2	2.38	0.45
1:13:112:G:C2	1:13:330:C:N4	2.85	0.45
1:13:192:U:C1'	20:BI:103:GLY:HA2	2.46	0.45
1:13:221:C:H2'	1:13:222:U:C6	2.47	0.45
1:13:355:C:H2'	1:13:356:A:O4'	2.17	0.45
1:13:734:G:C6	1:13:735:C:C4	3.04	0.45
1:13:1304:G:C5	1:13:1305:G:C6	3.04	0.45
1:13:1442:G:C6	1:13:1446:A:C6	3.05	0.45
2:1E:88:ALA:HB2	2:1E:219:VAL:HG13	1.99	0.45
2:1E:208:ILE:HA	2:1E:211:ILE:CD1	2.46	0.45
9:8E:47:LEU:H	9:8E:47:LEU:CD2	2.28	0.45
13:4I:34:LEU:HD23	13:4I:39:ILE:HB	1.98	0.45
13:4I:39:ILE:CD1	13:4I:56:LEU:HD22	2.47	0.45
26:1H:250:G:C6	26:1H:251:A:C6	3.05	0.45
26:1H:569:U:C4	26:1H:570:G:C6	3.04	0.45
26:1H:863:A:H2'	26:1H:864:G:H8	1.81	0.45
26:1H:992:C:H2'	26:1H:993:G:C8	2.50	0.45
26:1H:2108:C:H2'	26:1H:2109:U:O4'	2.16	0.45
26:1H:2453:A:H2'	26:1H:2454:G:O4'	2.17	0.45
26:1H:2848:G:H8	41:B8:97:ALA:HB2	1.80	0.45
28:71:193:ILE:HD13	28:71:226:PRO:O	2.17	0.45
29:11:108:PRO:HA	29:11:196:VAL:O	2.17	0.45
30:21:35:GLN:CG	30:21:36:ARG:N	2.79	0.45
31:31:134:GLY:HA3	31:31:162:LEU:O	2.17	0.45
33:51:30:LYS:HZ2	33:51:81:GLU:H	1.63	0.45
33:51:109:PHE:CE1	33:51:152:ARG:NH2	2.83	0.45
37:78:62:LEU:O	55:Q8:13:ARG:HD3	2.17	0.45
37:78:91:PHE:N	37:78:91:PHE:HD1	2.15	0.45
40:A8:106:ARG:NH1	40:A8:106:ARG:O	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:G8:21:LYS:HB3	46:G8:21:LYS:HE2	1.70	0.45
46:G8:88:LYS:HD3	46:G8:88:LYS:HA	1.77	0.45
1:1G:123:C:OP1	1:1G:312:C:H5'	2.16	0.45
1:1G:619:U:C2	4:32:135:LEU:HD21	2.52	0.45
1:1G:959:A:H5''	1:1G:960:U:OP2	2.17	0.45
1:1G:989:C:H6	1:1G:989:C:OP2	2.00	0.45
1:1G:1078:U:H1'	5:42:130:ASN:OD1	2.16	0.45
1:1G:1127:G:H2'	1:1G:1128:C:H6	1.82	0.45
1:1G:1240:U:O2'	1:1G:1241:G:OP1	2.33	0.45
1:1G:1345:U:H4'	1:1G:1346:A:H5''	1.98	0.45
1:1G:1348:U:OP2	1:1G:1373:G:N1	2.47	0.45
1:1G:1357:A:N7	1:1G:1358:U:N3	2.65	0.45
1:1G:1359:C:H1'	1:1G:1362:C:H41	1.81	0.45
3:22:59:ARG:HB3	3:22:64:VAL:HG23	1.98	0.45
8:72:51:VAL:HG11	8:72:60:ARG:HE	1.80	0.45
14:5A:22:THR:O	14:5A:29:ARG:HG2	2.16	0.45
16:7A:48:TRP:CE3	16:7A:49:LEU:HB2	2.52	0.45
20:BA:39:LYS:O	20:BA:43:LEU:HG	2.17	0.45
56:1L:9:A:H4'	56:1L:10:G:OP2	2.16	0.45
23:2L:48:U:O2'	23:2L:49:C:OP2	2.18	0.45
26:14:2:G:N3	26:14:2:G:H2'	2.31	0.45
26:14:227:A:C2	26:14:2407:G:H1'	2.52	0.45
26:14:275:G:N2	26:14:276:A:H62	2.15	0.45
26:14:353:G:N3	26:14:354:G:C8	2.85	0.45
26:14:360:G:H2'	26:14:361:G:C8	2.51	0.45
26:14:725:G:C6	26:14:726:G:C6	3.04	0.45
26:14:853:G:H2'	26:14:854:G:H8	1.79	0.45
26:14:1129:A:N1	26:14:2569:G:O2'	2.44	0.45
26:14:1389:G:H2'	26:14:1390:U:H6	1.82	0.45
26:14:1412:A:H2'	26:14:1413:G:C8	2.52	0.45
26:14:2190:G:N3	26:14:2191:G:H1'	2.31	0.45
26:14:2209:C:O2	26:14:2216:G:C2	2.70	0.45
26:14:2786:U:H5''	30:29:66:HIS:CD2	2.52	0.45
27:1J:10:C:C4	27:1J:11:C:C5	3.05	0.45
27:1J:15:A:H1'	27:1J:109:G:N9	2.32	0.45
27:1J:99:A:C5	27:1J:100:G:N7	2.85	0.45
29:19:236:GLY:O	29:19:237:GLU:O	2.35	0.45
30:29:7:VAL:HG12	30:29:8:LYS:H	1.82	0.45
30:29:37:ARG:HA	30:29:42:ASP:OD2	2.16	0.45
31:39:23:ASP:N	31:39:23:ASP:OD1	2.49	0.45
31:39:83:PHE:C	31:39:85:GLY:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:35:47:ASP:HB3	37:35:48:PRO:CA	2.47	0.45
37:35:79:ARG:HG2	37:35:110:TYR:CB	2.37	0.45
46:C5:82:PRO:HB3	46:C5:99:CYS:HB3	1.97	0.45
46:C5:104:GLY:HA2	46:C5:105:ALA:HA	1.78	0.45
49:F5:25:LYS:HA	49:F5:29:GLY:HA2	1.98	0.45
1:13:11:G:C2	1:13:24:U:O2	2.70	0.45
1:13:510:A:H5''	1:13:511:C:P	2.57	0.45
1:13:790:A:H8	1:13:790:A:O5'	2.00	0.45
1:13:986:A:H2'	1:13:987:G:O4'	2.17	0.45
5:4E:15:ARG:HH12	25:4K:24:A:H2	1.65	0.45
11:2I:27:ASN:OD1	11:2I:28:THR:N	2.49	0.45
24:3K:12:U:H2'	24:3K:13:C:O4'	2.16	0.45
26:1H:7:G:H1	26:1H:2896:C:H42	1.63	0.45
26:1H:662:G:H5'	37:78:15:ARG:HA	1.99	0.45
26:1H:1343:G:H2'	26:1H:1384:A:C2	2.51	0.45
26:1H:1382:G:H8	26:1H:1382:G:O5'	2.00	0.45
26:1H:1729:A:C5	26:1H:1731:G:C5	3.05	0.45
26:1H:2065:C:H2'	26:1H:2066:C:H6	1.81	0.45
26:1H:2226:C:H5'	26:1H:2227:A:OP2	2.17	0.45
26:1H:2376:A:H2'	26:1H:2377:A:O4'	2.17	0.45
26:1H:2401:U:H2'	26:1H:2402:C:H5''	1.98	0.45
26:1H:2663:G:C2	26:1H:2664:G:H1'	2.51	0.45
29:11:31:LYS:HD2	29:11:31:LYS:HA	1.85	0.45
30:21:54:GLN:O	30:21:55:ASN:ND2	2.50	0.45
34:61:29:TYR:CE1	34:61:33:ARG:NE	2.85	0.45
36:68:18:LYS:N	36:68:18:LYS:HD2	2.32	0.45
38:88:139:GLU:HA	38:88:140:ALA:C	2.41	0.45
39:98:104:ARG:HB3	39:98:107:ASP:HB3	1.97	0.45
40:A8:88:ASP:O	40:A8:90:GLY:N	2.50	0.45
1:1G:32:A:C2	1:1G:33:A:C4	3.04	0.45
1:1G:49:U:C2	1:1G:361:G:N2	2.84	0.45
1:1G:325:A:H2'	1:1G:326:G:O4'	2.16	0.45
1:1G:486:U:H2'	1:1G:487:A:C8	2.52	0.45
1:1G:493:G:H2'	1:1G:494:U:C6	2.52	0.45
1:1G:502:G:H4'	1:1G:550:G:H4'	1.99	0.45
1:1G:595:G:H1'	1:1G:596:C:C5	2.50	0.45
1:1G:750:G:C2	1:1G:751:U:C6	3.05	0.45
1:1G:1081:G:H5''	5:42:18:ARG:HG3	1.98	0.45
1:1G:1206:G:C6	1:1G:1207:G:C6	3.04	0.45
1:1G:1330:U:HO2'	13:4A:23:TYR:HH	1.64	0.45
1:1G:1509:C:H2'	1:1G:1510:U:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:150:GLU:HG2	4:32:151:LYS:N	2.32	0.45
5:42:78:HIS:HB2	8:72:104:ARG:HG3	1.99	0.45
12:3A:83:VAL:HG22	12:3A:100:ILE:HG23	1.99	0.45
13:4A:56:LEU:O	13:4A:60:VAL:HG22	2.17	0.45
16:7A:3:LYS:O	16:7A:21:VAL:HA	2.16	0.45
23:2L:41:C:H2'	23:2L:42:C:H6	1.80	0.45
57:3L:5:C:H2'	57:3L:6:G:C8	2.51	0.45
26:14:184:C:H2'	26:14:185:U:H6	1.81	0.45
26:14:473:G:O2'	26:14:474:G:H5'	2.16	0.45
26:14:522:G:H2'	26:14:523:C:C6	2.51	0.45
26:14:761:A:N7	61:14:3569:HOH:O	2.36	0.45
26:14:795:C:H2'	26:14:796:C:H6	1.82	0.45
26:14:812:C:H5''	26:14:1250:G:O2'	2.17	0.45
26:14:840:C:H42	26:14:938:G:H1	1.63	0.45
26:14:860:U:C5	26:14:916:G:N2	2.85	0.45
26:14:1140:C:H4'	26:14:1143:A:C6	2.52	0.45
26:14:1674:G:H1'	26:14:1676:A:N6	2.31	0.45
26:14:1728:G:C2	26:14:1730:U:OP2	2.69	0.45
26:14:2228:G:C5	26:14:2229:C:C4	3.05	0.45
26:14:2312:U:H5''	32:49:74:LYS:NZ	2.32	0.45
29:19:145:VAL:HG13	29:19:191:ALA:HB2	1.98	0.45
31:39:39:TRP:HB2	31:39:99:TYR:HE1	1.82	0.45
31:39:128:ALA:O	31:39:129:PHE:C	2.59	0.45
32:49:73:ALA:HB2	32:49:82:LEU:HD22	1.98	0.45
32:49:73:ALA:HB2	32:49:82:LEU:CD2	2.47	0.45
36:25:68:GLU:HB3	36:25:78:ARG:HB3	1.98	0.45
37:35:11:GLY:O	37:35:12:ALA:HB3	2.17	0.45
37:35:127:ALA:HB3	37:35:130:PHE:CZ	2.51	0.45
39:55:12:ARG:HG2	39:55:16:HIS:ND1	2.32	0.45
41:75:24:PRO:HD3	41:75:52:ILE:HD12	1.99	0.45
44:A5:69:LEU:HA	44:A5:108:GLY:O	2.17	0.45
50:G5:22:GLU:O	50:G5:25:VAL:HG22	2.17	0.45
1:13:101:A:H2'	1:13:102:G:H8	1.82	0.45
1:13:119:A:C8	1:13:288:A:N1	2.85	0.45
1:13:223:U:H2'	1:13:224:C:O4'	2.17	0.45
1:13:300:A:C8	1:13:300:A:H3'	2.52	0.45
1:13:536:C:H2'	1:13:537:G:H8	1.82	0.45
1:13:581:G:O2'	1:13:582:U:H5'	2.17	0.45
1:13:612:C:C2	1:13:629:G:N2	2.85	0.45
1:13:737:A:O2'	1:13:738:C:H5'	2.16	0.45
1:13:912:C:O2'	1:13:913:A:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:937:A:C2'	1:13:938:A:H5'	2.47	0.45
1:13:1053:G:O6	1:13:1199:U:H2'	2.17	0.45
1:13:1347:G:C5	9:8E:10:ARG:NH2	2.85	0.45
1:13:1360:A:H2'	1:13:1361:G:C8	2.52	0.45
1:13:1366:C:H2'	1:13:1367:C:C6	2.50	0.45
4:3E:126:ILE:HG22	4:3E:127:THR:N	2.32	0.45
9:8E:33:PHE:CE1	9:8E:37:PHE:HD2	2.35	0.45
24:3K:3:G:H2'	24:3K:4:U:C6	2.52	0.45
26:1H:394:A:O2'	26:1H:395:U:H5'	2.17	0.45
26:1H:507:A:H5''	26:1H:508:G:H3'	1.98	0.45
26:1H:619:G:H3'	26:1H:620:G:N2	2.32	0.45
26:1H:621:A:O4'	26:1H:621:A:N3	2.48	0.45
26:1H:654(O):G:C8	26:1H:654(P):G:N3	2.85	0.45
26:1H:660:G:H2'	26:1H:661:C:O4'	2.16	0.45
26:1H:669:G:C2	26:1H:801:G:C6	3.05	0.45
26:1H:836:G:H3'	26:1H:837:C:C6	2.52	0.45
26:1H:872:A:C2	26:1H:906:G:C4	3.05	0.45
26:1H:1162:G:C6	26:1H:1163:G:C5	3.05	0.45
26:1H:1427:A:H4'	26:1H:1428:C:O4'	2.17	0.45
26:1H:1551:C:C2	26:1H:1552:G:C8	3.05	0.45
26:1H:1680:U:O2'	26:1H:1763:G:N7	2.35	0.45
26:1H:1920:C:O2	26:1H:1920:C:H2'	2.16	0.45
26:1H:2131:G:O4'	26:1H:2133:G:H4'	2.16	0.45
26:1H:2320:A:H8	26:1H:2321:G:C6	2.35	0.45
26:1H:2689:U:H5''	26:1H:2713:A:C2	2.52	0.45
26:1H:2797:U:H5''	26:1H:2798:C:OP2	2.16	0.45
31:31:6:VAL:HG21	31:31:119:ARG:HB2	1.99	0.45
31:31:89:VAL:HG12	31:31:90:PHE:CD2	2.52	0.45
37:78:84:ASN:HA	37:78:115:LEU:O	2.16	0.45
37:78:106:LEU:O	37:78:106:LEU:HD22	2.17	0.45
43:D8:65:GLY:HA3	43:D8:91:TYR:CD1	2.51	0.45
44:E8:58:ALA:CA	44:E8:64:MET:HG3	2.47	0.45
49:J8:84:GLY:O	49:J8:87:PRO:HD2	2.17	0.45
1:1G:45:U:H2'	1:1G:46:G:H8	1.82	0.45
1:1G:328:C:H4'	1:1G:329:A:H5''	1.98	0.45
1:1G:623:C:H2'	1:1G:624:C:H5'	1.98	0.45
1:1G:882:C:OP2	12:3A:13:LYS:NZ	2.40	0.45
1:1G:973:G:H1'	10:1A:55:LYS:CG	2.47	0.45
1:1G:1431:C:H42	1:1G:1469:G:H1	1.64	0.45
1:1G:1436:U:H2'	1:1G:1437:C:O4'	2.17	0.45
3:22:11:ARG:CZ	3:22:182:ILE:HD11	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:22:12:LEU:HD23	3:22:12:LEU:O	2.17	0.45
4:32:26:CYS:HA	59:32:302:SF4:S1	2.57	0.45
10:1A:33:GLN:O	10:1A:74:ILE:HD12	2.17	0.45
12:3A:47:LYS:HG3	12:3A:48:PRO:HD2	1.98	0.45
17:8A:45:HIS:O	17:8A:73:VAL:HG12	2.17	0.45
23:2L:14:A:C4	23:2L:23:G:C2	3.04	0.45
26:14:90:U:O2'	26:14:91:A:P	2.74	0.45
26:14:544:C:O5'	26:14:544:C:H6	2.00	0.45
26:14:997:G:O2'	26:14:998:C:H5'	2.17	0.45
26:14:1048:A:H5'	26:14:1109:C:H42	1.81	0.45
26:14:1246:A:OP1	37:35:15:ARG:HD2	2.17	0.45
26:14:1475:G:C2	26:14:1519:G:C2	3.05	0.45
26:14:1909:C:H2'	26:14:1910:G:C8	2.52	0.45
26:14:2516:G:C6	26:14:2517:C:C4	3.05	0.45
26:14:2788:C:OP1	30:29:61:ARG:NH1	2.50	0.45
26:14:2846:G:H2'	26:14:2847:U:O4'	2.17	0.45
31:39:3:GLU:O	31:39:19:GLU:HG3	2.16	0.45
31:39:155:LEU:HB2	31:39:189:THR:HG21	1.99	0.45
32:49:103:LEU:HB3	32:49:178:PHE:HE2	1.82	0.45
38:45:75:THR:HA	38:45:89:ASN:CA	2.43	0.45
41:75:21:GLU:O	41:75:91:ARG:NH2	2.49	0.45
49:F5:52:ARG:HD2	49:F5:57:GLU:CG	2.47	0.45
49:F5:91:LYS:HG3	49:F5:92:LYS:N	2.31	0.45
51:H5:18:ASP:OD1	51:H5:18:ASP:N	2.49	0.45
1:13:130:A:O2'	1:13:131:C:O5'	2.34	0.45
1:13:216:G:H2'	1:13:217:C:O4'	2.17	0.45
1:13:266:G:N2	1:13:269:C:C5	2.85	0.45
1:13:359:U:H2'	1:13:360:A:H8	1.81	0.45
1:13:691:G:H1	11:2I:51:LYS:NZ	2.15	0.45
1:13:739:C:O2	15:6I:42:HIS:HE1	1.99	0.45
1:13:872:A:C5	1:13:874:G:C8	3.04	0.45
1:13:1071:C:H2'	1:13:1072:G:H8	1.81	0.45
1:13:1503:A:H61	25:4K:11:U:H2'	1.82	0.45
5:4E:11:ILE:CD1	5:4E:31:LEU:HD13	2.36	0.45
7:6E:29:LYS:HB3	7:6E:105:VAL:HG21	1.99	0.45
8:7E:86:ILE:HG12	8:7E:135:CYS:HA	1.99	0.45
9:8E:38:GLN:HG2	9:8E:39:GLY:N	2.31	0.45
13:4I:3:ARG:HB3	13:4I:9:ILE:CG1	2.46	0.45
19:AI:18:LYS:HZ1	19:AI:22:LEU:CD1	2.26	0.45
23:2K:10:G:N2	23:2K:27:G:H1'	2.32	0.45
26:1H:270(C):C:N4	26:1H:270(W):G:H1	2.11	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:273(B):C:H6	26:1H:273(B):C:O5'	2.00	0.45
26:1H:663:G:OP1	37:78:17:LYS:HG2	2.17	0.45
26:1H:1170:G:C6	26:1H:1171:G:N7	2.85	0.45
26:1H:1268:A:C2	26:1H:2013:A:C4	3.05	0.45
26:1H:1833:U:H2'	26:1H:1834:U:C6	2.52	0.45
26:1H:2040:C:H2'	26:1H:2041:U:O4'	2.16	0.45
26:1H:2129:C:H2'	26:1H:2130:U:H4'	1.98	0.45
26:1H:2133:G:N3	26:1H:2157:G:N1	2.64	0.45
26:1H:2348:U:O4	26:1H:2382:G:C2	2.70	0.45
26:1H:2422:A:N7	55:Q8:31:HIS:HE1	2.15	0.45
26:1H:2728:U:H2'	26:1H:2729:G:H8	1.83	0.45
27:16:18:G:H1	27:16:65:C:N4	2.14	0.45
32:41:139:LEU:HD22	32:41:146:TYR:HB2	1.99	0.45
33:51:69:ARG:HH11	33:51:73:ALA:HB2	1.82	0.45
41:B8:3:ARG:HB2	41:B8:6:LEU:CB	2.35	0.45
41:B8:67:SER:O	41:B8:68:TYR:C	2.60	0.45
41:B8:125:ARG:HA	41:B8:128:GLU:CG	2.46	0.45
1:1G:371:G:H1	1:1G:390:C:N4	2.14	0.45
1:1G:422:C:O2'	1:1G:423:G:C2	2.68	0.45
1:1G:755:G:H2'	1:1G:756:C:C6	2.51	0.45
1:1G:957:U:H2'	1:1G:958:A:H3'	1.97	0.45
1:1G:1004:A:H3'	1:1G:1004:A:N3	2.32	0.45
1:1G:1077:G:H8	1:1G:1077:G:O5'	1.99	0.45
1:1G:1099:G:C5	1:1G:1100:C:C4	3.05	0.45
2:12:27:LYS:HB2	2:12:27:LYS:HE3	1.69	0.45
4:32:28:SER:HB2	4:32:29:PRO:HA	1.99	0.45
4:32:112:VAL:HG12	4:32:116:GLN:CD	2.42	0.45
6:52:10:LEU:HB2	6:52:59:TYR:HB3	1.98	0.45
16:7A:4:ILE:HG22	16:7A:70:ALA:HB1	1.99	0.45
18:9A:41:LYS:O	18:9A:41:LYS:HD3	2.16	0.45
26:14:372:G:H3'	49:F5:66:HIS:CE1	2.52	0.45
26:14:469:G:O6	54:L5:39:ARG:NH1	2.50	0.45
26:14:1246:A:OP2	37:35:15:ARG:HD3	2.16	0.45
26:14:1466:G:N3	26:14:1466:G:H2'	2.32	0.45
26:14:1570:A:H8	26:14:1570:A:O5'	1.99	0.45
26:14:2022:U:OP2	53:J5:15:ARG:NH2	2.50	0.45
26:14:2062:A:O2'	26:14:2063:C:P	2.75	0.45
26:14:2275:C:H1'	38:45:83:MET:HG2	1.99	0.45
26:14:2391:G:O6	26:14:2425:A:H8	2.00	0.45
26:14:2496:C:O2'	26:14:2497:A:H5'	2.17	0.45
26:14:2557:G:H2'	26:14:2558:C:H6	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2749:A:H1'	33:59:63:SER:HA	1.99	0.45
26:14:2849:U:H4'	26:14:2868:A:C2	2.51	0.45
30:29:35:GLN:NE2	30:29:37:ARG:HE	2.14	0.45
30:29:120:TRP:CD1	30:29:155:LYS:HB3	2.52	0.45
32:49:33:ARG:H	32:49:162:THR:CG2	2.30	0.45
37:35:63:PRO:HG2	55:M5:25:MET:CB	2.47	0.45
37:35:92:GLU:HA	37:35:123:LEU:CD2	2.47	0.45
40:65:17:ARG:O	40:65:17:ARG:HD3	2.17	0.45
40:65:83:LYS:HB2	40:65:83:LYS:HE2	1.48	0.45
42:85:49:HIS:HA	42:85:52:ARG:HB3	1.98	0.45
43:95:67:GLY:O	43:95:88:ARG:HD2	2.16	0.45
1:13:132:C:N3	1:13:231:G:N2	2.64	0.44
1:13:191:G:C2	1:13:192:U:C2	3.06	0.44
1:13:221:C:C6	1:13:222:U:H5	2.35	0.44
1:13:553:A:H5''	12:3I:24:VAL:HG21	1.99	0.44
1:13:556:C:H2'	1:13:557:G:H8	1.82	0.44
1:13:588:G:H5''	8:7E:5:PRO:HG3	1.99	0.44
1:13:740:U:H4'	15:6I:39:LEU:HD23	1.99	0.44
2:1E:67:THR:OG1	2:1E:155:LEU:HD23	2.17	0.44
4:3E:165:MET:HA	4:3E:168:ARG:HD3	1.98	0.44
7:6E:15:ASP:O	7:6E:19:GLY:HA2	2.17	0.44
10:1I:44:VAL:HG21	10:1I:66:ARG:HH21	1.83	0.44
22:1K:17:U:C2	22:1K:58:A:C2	3.05	0.44
22:1K:27:G:H2'	22:1K:28:U:C6	2.51	0.44
24:3K:34:U:H6	24:3K:34:U:P	2.40	0.44
26:1H:270(E):G:C2	26:1H:270(V):G:C6	3.05	0.44
26:1H:814:C:H41	37:78:25:SER:HA	1.82	0.44
26:1H:1191:G:OP1	37:78:32:THR:OG1	2.35	0.44
26:1H:1346:G:C5	26:1H:1347:G:N7	2.85	0.44
26:1H:1465:G:N3	26:1H:1466:G:C8	2.85	0.44
26:1H:2829:C:H5'	30:21:76:ARG:HH22	1.82	0.44
30:21:55:ASN:HB3	30:21:58:ARG:H	1.81	0.44
30:21:108:SER:O	30:21:162:ALA:HA	2.18	0.44
31:31:114:VAL:HG21	31:31:202:PHE:CZ	2.52	0.44
32:41:83:ARG:HD3	32:41:83:ARG:HA	1.86	0.44
32:41:120:LEU:HD23	32:41:120:LEU:HA	1.72	0.44
36:68:104:ARG:HH22	41:B8:43:GLN:HE22	1.65	0.44
49:J8:78:LYS:HD3	49:J8:78:LYS:O	2.17	0.44
53:N8:31:VAL:HB	53:N8:42:PRO:HG3	1.98	0.44
1:1G:345:C:O3'	41:75:41:ARG:NH2	2.50	0.44
1:1G:536:C:H2'	1:1G:537:G:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1290:G:C4	1:1G:1291:G:C8	3.04	0.44
2:12:104:ASN:OD1	2:12:107:THR:OG1	2.35	0.44
5:42:76:ILE:HG12	5:42:118:ILE:CD1	2.47	0.44
15:6A:13:GLN:HB3	15:6A:14:GLU:H	1.38	0.44
23:2L:44:A:C2	23:2L:45:A:C8	3.05	0.44
26:14:260:G:C6	26:14:261:G:N7	2.84	0.44
26:14:265:A:H1'	26:14:266:G:O4'	2.17	0.44
26:14:656:G:H2'	26:14:657:U:O4'	2.16	0.44
26:14:662:G:OP1	37:35:15:ARG:CZ	2.65	0.44
26:14:825:C:C2'	26:14:826:U:H5'	2.47	0.44
26:14:848:G:C2	26:14:849:A:C5	3.05	0.44
26:14:1191:G:OP1	37:35:18:ARG:NH2	2.50	0.44
26:14:1465:G:H5'	26:14:1528:A:O2'	2.17	0.44
26:14:1551:C:C5	26:14:1552:G:N7	2.85	0.44
26:14:1630(A):C:H2'	61:14:3542:HOH:O	2.17	0.44
26:14:1902:C:H5'	29:19:246:PRO:HD3	1.99	0.44
26:14:1999:C:H4'	26:14:2723:C:O2	2.17	0.44
26:14:2117:A:C8	26:14:2118:U:H5	2.35	0.44
26:14:2126:A:N1	26:14:2163:C:H1'	2.32	0.44
26:14:2516:G:O2'	26:14:2517:C:H5'	2.17	0.44
27:1J:117:G:C2	27:1J:118:G:N7	2.85	0.44
30:29:52:LEU:HB3	30:29:75:VAL:HG23	1.99	0.44
31:39:30:PRO:O	31:39:31:HIS:C	2.60	0.44
34:69:73:GLU:HG3	34:69:136:VAL:HG23	1.98	0.44
34:69:88:ILE:HD11	34:69:122:GLU:O	2.17	0.44
38:45:27:VAL:HG12	47:D5:81:ARG:NH2	2.33	0.44
39:55:116:LEU:HA	39:55:116:LEU:HD23	1.68	0.44
40:65:102:ALA:O	40:65:105:ALA:N	2.49	0.44
51:H5:55:ARG:O	51:H5:55:ARG:HG3	2.15	0.44
1:13:559:A:H4'	1:13:560:U:O3'	2.17	0.44
1:13:575:G:C4	1:13:881:G:C2	3.06	0.44
1:13:1027:C:C2	1:13:1028:C:H5	2.35	0.44
1:13:1156:G:H2'	1:13:1157:A:H5''	2.00	0.44
1:13:1274:G:H2'	1:13:1275:A:C8	2.51	0.44
1:13:1501:C:C5	1:13:1504:G:C5	3.05	0.44
2:1E:69:LEU:HD13	2:1E:70:PHE:N	2.31	0.44
4:3E:79:PHE:HE2	4:3E:204:ILE:HA	1.82	0.44
8:7E:6:ILE:HD12	8:7E:6:ILE:H	1.82	0.44
12:3I:60:LEU:HD12	12:3I:62:SER:OG	2.17	0.44
15:6I:8:LYS:HB2	15:6I:8:LYS:HE3	1.83	0.44
20:BI:90:GLN:C	20:BI:93:GLU:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2K:1:C:H3'	23:2K:2:G:C8	2.53	0.44
23:2K:73:A:N6	23:2K:74:A:C6	2.85	0.44
26:1H:244:A:O2'	37:78:73:GLY:HA3	2.17	0.44
26:1H:821:A:H5''	26:1H:822:U:C6	2.52	0.44
26:1H:863:A:H2'	26:1H:864:G:C8	2.52	0.44
26:1H:1478:G:C2	26:1H:1479:G:C8	3.05	0.44
26:1H:1479:G:C6	26:1H:1480:G:C5	3.05	0.44
26:1H:1682:G:C5	26:1H:1683:C:C4	3.05	0.44
26:1H:2355:C:H5''	26:1H:2356:C:OP2	2.16	0.44
26:1H:2600:A:C6	26:1H:2601:C:N4	2.86	0.44
26:1H:2718:G:C6	26:1H:2719:G:C5	3.05	0.44
26:1H:2747:G:O6	26:1H:2755:C:H5''	2.16	0.44
26:1H:2829:C:H5'	30:21:76:ARG:NH2	2.33	0.44
27:16:70:C:N3	27:16:71:C:C5	2.85	0.44
28:71:10:LEU:HG	28:71:32:LEU:C	2.42	0.44
28:71:44:HIS:HE1	28:71:215:THR:HG22	1.82	0.44
29:11:64:ILE:HG21	29:11:64:ILE:HD13	1.72	0.44
31:31:196:LEU:C	31:31:197:ASP:O	2.57	0.44
32:41:108:ASN:OD1	32:41:108:ASN:N	2.50	0.44
33:51:126:PRO:O	33:51:127:GLU:HG2	2.16	0.44
34:61:93:THR:OG1	34:61:95:LYS:HB3	2.18	0.44
36:68:4:PRO:O	36:68:5:GLN:CB	2.65	0.44
38:88:130:LYS:NZ	47:H8:81:ARG:HG2	2.31	0.44
43:D8:36:PRO:HA	43:D8:37:VAL:HA	1.69	0.44
43:D8:37:VAL:HB	43:D8:51:VAL:CG2	2.48	0.44
43:D8:76:LYS:HB2	43:D8:81:TYR:CD1	2.53	0.44
1:1G:25:C:H2'	1:1G:26:A:H8	1.82	0.44
1:1G:134:A:H61	16:7A:25:ARG:NH1	2.16	0.44
1:1G:318:G:C2	1:1G:336:C:N3	2.85	0.44
1:1G:359:U:H2'	1:1G:360:A:H8	1.80	0.44
1:1G:411:A:H2'	1:1G:413:G:H5'	1.99	0.44
1:1G:665:A:H1'	1:1G:733:A:O4'	2.16	0.44
1:1G:719:C:C5	1:1G:720:C:C4	3.05	0.44
1:1G:799:G:C6	1:1G:800:G:C4	3.05	0.44
1:1G:1321:C:O5'	1:1G:1321:C:H6	2.00	0.44
1:1G:1359:C:O2'	1:1G:1361:G:N7	2.38	0.44
1:1G:1416:G:N2	1:1G:1485:U:H1'	2.32	0.44
2:12:71:VAL:HG21	2:12:164:VAL:HA	1.99	0.44
2:12:88:ALA:HB2	2:12:219:VAL:HG12	1.99	0.44
3:22:190:ARG:O	3:22:190:ARG:HG2	2.16	0.44
4:32:32:ALA:HA	4:32:35:ARG:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:59:ARG:HA	4:32:62:GLN:HB2	1.99	0.44
12:3A:83:VAL:HG21	12:3A:100:ILE:HD13	1.98	0.44
56:1L:17:U:H6	56:1L:17:U:H5'	1.82	0.44
56:1L:58:A:C6	56:1L:61:C:C4	3.05	0.44
57:3L:63:U:O5'	57:3L:63:U:H6	2.00	0.44
26:14:89:G:H5''	26:14:90:U:OP2	2.18	0.44
26:14:271(B):G:N7	26:14:421:U:H2'	2.33	0.44
26:14:1037:G:H2'	26:14:1037:G:N3	2.32	0.44
26:14:1655:A:H1'	30:29:113:PHE:CD1	2.52	0.44
26:14:2324:C:H5''	26:14:2325:G:C5'	2.46	0.44
26:14:2432:A:C8	49:F5:33:LYS:HD2	2.52	0.44
26:14:2718:G:O2'	26:14:2847:U:OP1	2.24	0.44
30:29:74:PRO:O	30:29:75:VAL:C	2.60	0.44
30:29:202:LYS:HD2	30:29:202:LYS:N	2.32	0.44
32:49:17:PRO:HA	32:49:20:ILE:HD12	1.99	0.44
32:49:136:ARG:HD2	32:49:136:ARG:HA	1.30	0.44
33:59:53:GLU:HA	33:59:65:HIS:CE1	2.52	0.44
34:69:29:TYR:O	34:69:32:PRO:HD2	2.17	0.44
35:15:28:THR:HG22	35:15:29:LYS:HD2	1.99	0.44
35:15:45:ASN:OD1	35:15:46:VAL:HG23	2.17	0.44
35:15:137:LYS:HA	35:15:137:LYS:HD3	1.69	0.44
36:25:68:GLU:HA	36:25:78:ARG:HB3	1.98	0.44
36:25:71:ARG:NH2	36:25:77:ILE:HG21	2.32	0.44
37:35:39:LYS:HB2	37:35:45:LEU:CD1	2.47	0.44
38:45:25:ASP:O	38:45:26:TYR:CD1	2.70	0.44
39:55:34:ILE:O	39:55:113:LEU:HD12	2.17	0.44
43:95:37:VAL:HG21	43:95:57:VAL:HG12	1.99	0.44
46:C5:29:GLU:C	46:C5:29:GLU:OE1	2.60	0.44
47:D5:67:LEU:HA	47:D5:68:PRO:HD3	1.90	0.44
49:F5:87:PRO:HA	49:F5:90:ILE:HG23	1.99	0.44
1:13:73:G:N3	1:13:73:G:H5''	2.32	0.44
1:13:130:A:N7	17:8I:63:ARG:HB2	2.32	0.44
1:13:140:A:C6	1:13:141:A:C5	3.05	0.44
1:13:243:A:H4'	1:13:244:U:H5''	2.00	0.44
1:13:253:U:O2	1:13:275:G:O2'	2.32	0.44
1:13:348:G:C2	1:13:349:A:C8	3.05	0.44
1:13:1064:G:N2	1:13:1190:G:H1'	2.33	0.44
1:13:1187:G:O5'	9:8E:113:LYS:NZ	2.50	0.44
1:13:1349:A:H2'	1:13:1350:A:C8	2.53	0.44
2:1E:142:LEU:HD11	2:1E:146:GLN:NE2	2.32	0.44
4:3E:12:CYS:SG	4:3E:18:LYS:HA	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:201:GLN:O	4:3E:204:ILE:HB	2.17	0.44
26:1H:142:G:C1'	45:F8:37:THR:HG21	2.45	0.44
26:1H:274:G:C4	26:1H:274:G:OP1	2.71	0.44
26:1H:325:G:O2'	26:1H:326:G:H5'	2.17	0.44
26:1H:444:C:H4'	31:31:49:ALA:HB2	1.98	0.44
26:1H:462:C:C4	26:1H:463:G:N7	2.86	0.44
26:1H:778:G:C5	26:1H:779:U:C4	3.05	0.44
26:1H:806:C:H2'	26:1H:807:U:H6	1.82	0.44
26:1H:821:A:H2'	26:1H:946:G:H5''	1.99	0.44
26:1H:1466:G:N3	26:1H:1547:C:N4	2.66	0.44
26:1H:1536:A:H3'	26:1H:1537:C:C6	2.42	0.44
26:1H:1817:G:C6	26:1H:1818:U:C5	3.05	0.44
26:1H:2126:A:N6	26:1H:2163:C:H1'	2.32	0.44
28:71:43:VAL:HB	28:71:214:VAL:HG13	1.98	0.44
34:61:21:VAL:HG22	34:61:22:LYS:N	2.32	0.44
41:B8:7:ILE:O	41:B8:10:VAL:N	2.48	0.44
46:G8:32:PRO:O	46:G8:33:LYS:C	2.60	0.44
47:H8:67:LEU:HD22	47:H8:90:VAL:HG11	1.99	0.44
1:1G:475:G:C4	1:1G:476:G:C8	3.05	0.44
1:1G:576:G:N2	1:1G:759:A:OP1	2.44	0.44
1:1G:718:G:H5'	11:2A:117:ASN:HB2	1.99	0.44
1:1G:825:G:N2	1:1G:875:C:N3	2.52	0.44
1:1G:884:U:H4'	1:1G:885:G:H5''	1.99	0.44
1:1G:986:A:C6	1:1G:1220:G:N2	2.85	0.44
1:1G:1418:A:H2	26:14:1948:G:N3	2.14	0.44
2:12:173:ALA:O	2:12:176:GLU:N	2.48	0.44
7:62:18:TYR:CE2	7:62:59:LEU:HB2	2.52	0.44
7:62:115:ARG:O	7:62:119:ARG:HG3	2.18	0.44
13:4A:17:VAL:HA	13:4A:20:THR:OG1	2.17	0.44
18:9A:43:PHE:O	18:9A:51:LEU:HG	2.17	0.44
23:2L:12:G:H1'	26:14:1923:U:O2'	2.16	0.44
26:14:2:G:H5''	26:14:2897:U:OP1	2.17	0.44
26:14:29:U:H2'	26:14:30:G:C8	2.51	0.44
26:14:668:G:H2'	26:14:670:A:H62	1.81	0.44
26:14:735:A:H3'	26:14:736:C:C6	2.52	0.44
26:14:1009:A:OP1	35:15:37:LYS:NZ	2.45	0.44
26:14:1241:A:N6	26:14:1242:A:N1	2.65	0.44
26:14:1914:C:H2'	26:14:1915:U:O4'	2.17	0.44
26:14:1936:A:C8	26:14:1940:U:O2	2.70	0.44
26:14:2148:G:H2'	26:14:2149:G:H8	1.82	0.44
26:14:2295:C:C5	40:65:13:ARG:NH2	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2305:A:C5	32:49:136:ARG:CZ	3.01	0.44
26:14:2525:G:H1	26:14:2538:C:H42	1.63	0.44
26:14:2563:U:H4'	36:25:28:SER:HA	1.99	0.44
26:14:2663:G:C5	26:14:2664:G:C5	3.06	0.44
29:19:85:ASP:HB2	29:19:92:ILE:CG1	2.47	0.44
29:19:246:PRO:O	29:19:254:THR:HG22	2.17	0.44
29:19:246:PRO:C	29:19:254:THR:HG22	2.42	0.44
36:25:8:LEU:HD13	36:25:82:ASN:HB3	1.99	0.44
42:85:92:ARG:CD	43:95:11:GLN:HB2	2.48	0.44
1:13:75:C:O2	1:13:95:G:H2'	2.17	0.44
1:13:222:U:H2'	1:13:223:U:C6	2.52	0.44
1:13:452:A:O2'	1:13:453:A:O4'	2.24	0.44
1:13:1182:G:H4'	1:13:1183:A:C5'	2.47	0.44
1:13:1366:C:O2'	10:1I:60:ARG:NH1	2.46	0.44
1:13:1468:A:H8	1:13:1468:A:O5'	2.01	0.44
3:2E:47:LEU:O	3:2E:48:TYR:C	2.61	0.44
4:3E:192:GLU:N	4:3E:192:GLU:OE1	2.42	0.44
5:4E:35:GLY:H	5:4E:112:LEU:HD13	1.83	0.44
6:5E:75:LEU:HD22	6:5E:79:LEU:HG	2.00	0.44
17:8I:8:GLY:O	17:8I:21:VAL:HG13	2.18	0.44
20:BI:87:LYS:O	20:BI:90:GLN:N	2.50	0.44
23:2K:50:G:H1	23:2K:66:C:H42	1.63	0.44
26:1H:270(O):U:O2	34:61:52:ARG:NH2	2.51	0.44
26:1H:336:C:OP1	46:G8:83:THR:HG23	2.17	0.44
26:1H:1336:A:H2'	26:1H:1337:G:C8	2.53	0.44
26:1H:1717:G:H2'	26:1H:1718:G:H8	1.82	0.44
26:1H:1956:U:C3'	26:1H:1957:C:H5'	2.47	0.44
26:1H:2131:G:C5	26:1H:2134:A:H1'	2.52	0.44
26:1H:2394:C:H2'	26:1H:2395:C:H6	1.83	0.44
27:16:45:A:H3'	27:16:46:A:H8	1.83	0.44
27:16:90:C:P	38:88:16:ARG:HH21	2.40	0.44
28:71:22:ILE:CD1	28:71:193:ILE:HD11	2.47	0.44
28:71:65:PRO:HG2	28:71:66:HIS:CD2	2.51	0.44
32:41:142:PRO:HG2	32:41:143:GLU:OE2	2.17	0.44
33:51:154:PRO:HB2	33:51:163:TYR:CE2	2.52	0.44
33:51:157:TYR:CE1	33:51:171:LEU:HB3	2.52	0.44
35:58:12:ARG:HD2	35:58:50:ASP:CG	2.42	0.44
37:78:13:ASN:C	37:78:15:ARG:N	2.74	0.44
40:A8:26:LEU:HD23	40:A8:87:PHE:HD1	1.82	0.44
40:A8:61:ASN:C	40:A8:61:ASN:HD22	2.26	0.44
44:E8:2:GLU:HB2	44:E8:107:LEU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:H8:39:VAL:HG21	47:H8:44:PHE:CD2	2.52	0.44
49:J8:57:GLU:C	49:J8:58:ILE:HD12	2.43	0.44
1:1G:1:U:H5'	1:1G:630:G:O2'	2.17	0.44
1:1G:27:G:H2'	1:1G:28:G:O4'	2.18	0.44
1:1G:107:G:C2	1:1G:108:G:H1'	2.52	0.44
1:1G:236:G:OP1	17:8A:40:LYS:NZ	2.51	0.44
1:1G:255:G:O6	1:1G:270:A:N6	2.51	0.44
1:1G:512:U:H2'	1:1G:513:C:H6	1.83	0.44
1:1G:560:U:OP2	61:1G:1706:HOH:O	2.21	0.44
1:1G:736:C:H5''	18:9A:72:ARG:HE	1.81	0.44
1:1G:914:A:C6	1:1G:915:A:C5	3.06	0.44
1:1G:980:C:H2'	14:5A:21:TYR:CD1	2.52	0.44
1:1G:1242:C:C5'	21:1B:10:ARG:HH12	2.31	0.44
1:1G:1433:A:OP2	1:1G:1467:G:N1	2.38	0.44
1:1G:1452:C:H4'	1:1G:1453:G:C5'	2.47	0.44
1:1G:1512:U:H2'	1:1G:1513:A:C8	2.52	0.44
2:12:95:GLN:HB3	2:12:148:TYR:CD1	2.52	0.44
6:52:60:PHE:C	6:52:61:LEU:HD12	2.43	0.44
20:BA:61:SER:OG	20:BA:65:LYS:HD2	2.16	0.44
56:1L:76:A:O2'	26:14:2506:U:O2'	2.13	0.44
23:2L:9:G:C2	23:2L:47:G7M:C5	3.01	0.44
23:2L:22:A:H2'	23:2L:47:G7M:H1	1.83	0.44
26:14:143:C:H2'	26:14:144:C:H6	1.82	0.44
26:14:288:C:H2'	26:14:289:A:C8	2.53	0.44
26:14:816:C:N4	26:14:1192:G:C6	2.85	0.44
26:14:1291:C:H2'	26:14:1292:U:H6	1.81	0.44
26:14:2296:U:OP2	40:65:9:ARG:NH1	2.37	0.44
26:14:2820:A:HO2'	26:14:2821:A:P	2.41	0.44
26:14:2857:G:N2	26:14:2861:G:C5	2.85	0.44
29:19:123:ALA:HB3	29:19:131:LEU:HG	2.00	0.44
31:39:130:ALA:H	31:39:142:TRP:CD1	2.31	0.44
35:15:87:LEU:HD23	35:15:87:LEU:O	2.18	0.44
36:25:20:MET:HG2	36:25:21:CYS:O	2.16	0.44
37:35:30:THR:HG21	37:35:35:HIS:H	1.83	0.44
37:35:84:ASN:ND2	37:35:117:GLU:HB2	2.29	0.44
37:35:136:GLU:C	37:35:138:LEU:N	2.75	0.44
39:55:8:ARG:NH1	39:55:39:PRO:HB3	2.33	0.44
45:B5:66:LEU:HD23	45:B5:66:LEU:HA	1.77	0.44
47:D5:33:LEU:HA	47:D5:33:LEU:HD12	1.72	0.44
1:13:402:G:C6	1:13:403:C:C4	3.05	0.44
1:13:468:A:O3'	16:7I:80:PHE:HD1	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1118:C:OP1	9:8E:104:ARG:HD2	2.17	0.44
1:13:1195:C:H5''	1:13:1196:U:P	2.58	0.44
1:13:1285:A:H4'	1:13:1286:A:C5'	2.48	0.44
1:13:1326:C:H2'	1:13:1327:C:C6	2.53	0.44
3:2E:29:TYR:CZ	14:5I:54:PRO:HG2	2.53	0.44
3:2E:124:ILE:HG12	3:2E:130:VAL:HG22	2.00	0.44
5:4E:35:GLY:HA3	5:4E:112:LEU:HB3	2.00	0.44
26:1H:458:G:O2'	54:P8:39:ARG:HD3	2.18	0.44
26:1H:494:G:O2'	26:1H:495:G:H5'	2.18	0.44
26:1H:863:A:H2	26:1H:914:C:H41	1.63	0.44
26:1H:991:C:H42	26:1H:1163:G:H1	1.63	0.44
26:1H:2543:G:H2'	26:1H:2544:G:C8	2.53	0.44
29:11:18:VAL:HG12	29:11:19:ALA:N	2.32	0.44
29:11:199:ALA:C	29:11:201:HIS:H	2.24	0.44
30:21:65:GLY:HA2	30:21:70:ALA:HB1	1.99	0.44
32:41:62:LEU:HD12	32:41:62:LEU:HA	1.75	0.44
33:51:12:PRO:HG2	33:51:13:LYS:HG2	1.98	0.44
41:B8:55:ASN:O	41:B8:56:GLY:C	2.60	0.44
42:C8:24:TYR:HE2	42:C8:39:LEU:CD2	2.30	0.44
46:G8:71:LYS:HE3	46:G8:71:LYS:HB2	1.68	0.44
47:H8:7:ALA:O	47:H8:8:TYR:CD1	2.71	0.44
50:K8:15:LYS:HD3	50:K8:15:LYS:HA	1.76	0.44
51:L8:35:ARG:HA	51:L8:35:ARG:HD2	1.76	0.44
1:1G:265:G:O3'	17:8A:66:SER:HA	2.18	0.44
1:1G:324:G:N1	1:1G:327:A:OP2	2.47	0.44
1:1G:449:C:H2'	1:1G:450:G:O4'	2.18	0.44
1:1G:616:G:H2'	1:1G:617:G:H8	1.83	0.44
1:1G:654:G:C6	1:1G:753:A:C8	3.06	0.44
1:1G:885:G:H1	1:1G:912:C:H42	1.66	0.44
1:1G:1446:A:C2	41:75:118:ARG:HD2	2.52	0.44
7:62:45:ASP:HB3	7:62:117:ALA:CB	2.47	0.44
7:62:111:ARG:HH21	7:62:122:HIS:HB3	1.82	0.44
20:BA:89:ARG:O	20:BA:93:GLU:HG2	2.18	0.44
26:14:57:C:O5'	26:14:57:C:H6	2.00	0.44
26:14:74:A:H4'	26:14:75:G:O5'	2.18	0.44
26:14:192:C:O2'	26:14:802:A:N3	2.49	0.44
26:14:284:U:H2'	26:14:285:C:C6	2.53	0.44
26:14:540:G:H2'	26:14:541:C:C6	2.52	0.44
26:14:677:A:H2'	26:14:678:C:H6	1.82	0.44
26:14:729:G:OP2	29:19:13:ARG:NH1	2.51	0.44
26:14:847:U:H5'	26:14:929:G:H1	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1003:G:N2	26:14:1153:C:C2	2.85	0.44
26:14:1357:U:H2'	26:14:1358:G:O4'	2.18	0.44
26:14:1638:C:H5''	26:14:2710:C:O2'	2.18	0.44
26:14:1753:G:N1	26:14:1756:G:C2	2.86	0.44
26:14:1798:U:H5'	29:19:259:THR:OG1	2.18	0.44
26:14:1858:G:O2'	26:14:1884:A:N6	2.51	0.44
26:14:1921:G:H2'	26:14:1922:G:C8	2.53	0.44
26:14:2331:G:N3	26:14:2336:A:H2	2.15	0.44
26:14:2469:A:C2	26:14:2470:G:C5	3.05	0.44
26:14:2542:A:H1'	26:14:2543:G:C8	2.52	0.44
27:1J:42:C:N4	32:49:91:ARG:HH12	2.16	0.44
29:19:102:LYS:O	29:19:103:ARG:HG2	2.17	0.44
30:29:26:ILE:O	30:29:27:LEU:HB3	2.17	0.44
30:29:81:ILE:HG21	30:29:84:PHE:CD2	2.53	0.44
31:39:36:VAL:HG11	31:39:183:VAL:CG2	2.45	0.44
32:49:105:LYS:HD2	32:49:141:PHE:CE2	2.53	0.44
33:59:144:VAL:O	33:59:145:ALA:C	2.61	0.44
36:25:73:ASP:OD2	41:75:32:TYR:OH	2.14	0.44
38:45:16:ARG:C	38:45:17:LEU:HD23	2.42	0.44
40:65:80:LEU:HB2	40:65:82:ILE:HG13	2.00	0.44
47:D5:99:TYR:HA	47:D5:124:ILE:O	2.17	0.44
1:13:118:U:H3'	1:13:288:A:H61	1.83	0.44
1:13:161:A:H2'	1:13:162:A:C8	2.53	0.44
1:13:247:G:C5	1:13:248:C:C5	3.05	0.44
1:13:436:C:H2'	1:13:437:U:H6	1.82	0.44
1:13:636:U:H2'	1:13:637:G:H8	1.83	0.44
1:13:726:C:O2'	1:13:727:G:H5'	2.18	0.44
1:13:734:G:C6	1:13:735:C:N3	2.85	0.44
1:13:735:C:O2'	1:13:736:C:H5'	2.17	0.44
1:13:769:G:H4'	1:13:1513:A:H4'	1.98	0.44
1:13:1022:G:H2'	1:13:1023:G:O4'	2.17	0.44
1:13:1401:G:C2	1:13:1402:C:H1'	2.53	0.44
3:2E:72:LYS:HD3	3:2E:75:VAL:CG2	2.47	0.44
6:5E:17:SER:O	6:5E:21:LEU:N	2.50	0.44
9:8E:33:PHE:HE1	9:8E:37:PHE:HD2	1.65	0.44
9:8E:47:LEU:HG	9:8E:47:LEU:O	2.18	0.44
10:1I:8:LEU:HD22	10:1I:96:ILE:HG22	1.98	0.44
14:5I:53:LEU:HD23	14:5I:53:LEU:HA	1.56	0.44
16:7I:21:VAL:O	16:7I:33:ILE:N	2.47	0.44
18:9I:26:LEU:HD13	18:9I:39:VAL:HG13	1.99	0.44
26:1H:322:A:P	31:31:168:ARG:HH21	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:683:C:O5'	26:1H:683:C:H6	2.01	0.44
26:1H:775:G:C5	26:1H:794:G:C8	3.05	0.44
26:1H:993:G:H2'	26:1H:994:C:H6	1.83	0.44
26:1H:1188:U:H5'	43:D8:79:VAL:HG22	1.99	0.44
26:1H:1448:G:H1'	26:1H:1528:A:H62	1.83	0.44
26:1H:1496:A:H5'	26:1H:1497:U:OP1	2.17	0.44
26:1H:1638:C:H4'	26:1H:2710:C:O2	2.18	0.44
26:1H:1982:C:OP2	61:1H:3560:HOH:O	2.21	0.44
26:1H:2474:C:H3'	26:1H:2475:C:C6	2.53	0.44
26:1H:2635:C:H5''	30:21:78:LEU:HA	1.99	0.44
27:16:81:G:O6	27:16:95:U:O2	2.36	0.44
33:51:32:GLU:O	33:51:33:LEU:HD23	2.18	0.44
35:58:87:LEU:O	35:58:87:LEU:HD22	2.18	0.44
36:68:80:ASP:HB2	41:B8:70:VAL:HG13	1.99	0.44
37:78:19:VAL:CB	37:78:20:GLY:HA3	2.46	0.44
40:A8:15:ARG:HD3	40:A8:15:ARG:HA	1.61	0.44
41:B8:16:ARG:NH1	41:B8:18:ASP:OD2	2.51	0.44
44:E8:34:ASN:ND2	53:N8:39:MET:HG3	2.32	0.44
45:F8:29:TRP:CZ3	45:F8:78:LYS:HB3	2.53	0.44
45:F8:66:LEU:HD12	45:F8:66:LEU:HA	1.57	0.44
46:G8:43:ASN:CG	46:G8:65:ALA:HB3	2.43	0.44
46:G8:55:TYR:CE1	46:G8:61:ILE:HD11	2.53	0.44
52:M8:42:PHE:N	52:M8:47:GLN:NE2	2.65	0.44
1:1G:27:G:H8	1:1G:27:G:O5'	2.01	0.44
1:1G:105:G:C6	1:1G:106:C:C4	3.06	0.44
1:1G:165:C:H2'	1:1G:166:G:C8	2.53	0.44
1:1G:195:A:H62	1:1G:196:A:H61	1.65	0.44
1:1G:197:A:C6	1:1G:221:C:H4'	2.53	0.44
1:1G:287:U:H2'	1:1G:288:A:C8	2.53	0.44
1:1G:515:G:C6	1:1G:516:U:N3	2.85	0.44
1:1G:540:G:C6	1:1G:541:G:C5	3.06	0.44
1:1G:577:G:O2'	1:1G:578:C:H5'	2.17	0.44
1:1G:791:G:C6	1:1G:792:A:N7	2.85	0.44
1:1G:952:U:H2'	1:1G:953:G:O4'	2.18	0.44
1:1G:974:A:H5'	1:1G:974:A:N3	2.32	0.44
1:1G:1054:C:OP1	1:1G:1197:G:P	2.75	0.44
3:22:32:LEU:HD22	3:22:59:ARG:HH12	1.81	0.44
3:22:97:LYS:HE2	3:22:97:LYS:HB3	1.63	0.44
5:42:146:ALA:HB1	5:42:150:ARG:HH21	1.82	0.44
8:72:36:LEU:O	8:72:39:LEU:N	2.51	0.44
8:72:109:ILE:HG12	8:72:110:ALA:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2L:53:G:H2'	23:2L:54:G:H8	1.83	0.44
26:14:548:A:H2'	26:14:549:G:H4'	1.99	0.44
26:14:986:C:C2'	26:14:987:G:H5'	2.47	0.44
26:14:1212:G:H1'	26:14:1236:G:N2	2.32	0.44
26:14:1247:A:C2	26:14:1249:U:C6	3.06	0.44
26:14:1526:G:H2'	26:14:1527:G:O4'	2.18	0.44
26:14:1726:G:H2'	26:14:1727:U:O4'	2.18	0.44
26:14:1946:U:H2'	26:14:1947:C:H6	1.82	0.44
26:14:2079:U:O3'	49:F5:35:THR:OG1	2.23	0.44
26:14:2353:G:H5''	48:E5:32:ARG:NH2	2.33	0.44
27:1J:92:G:O2'	27:1J:93:C:H5'	2.18	0.44
32:49:119:GLY:CA	32:49:181:ARG:HB2	2.46	0.44
37:35:119:GLU:HA	37:35:137:LYS:NZ	2.33	0.44
40:65:109:GLY:C	40:65:111:GLU:H	2.21	0.44
41:75:26:ASP:CG	41:75:120:ARG:HH22	2.25	0.44
42:85:32:PHE:CD1	42:85:32:PHE:C	2.95	0.44
45:B5:84:ALA:HB3	45:B5:87:GLN:HE21	1.83	0.44
1:13:103:C:H2'	1:13:104:G:C8	2.52	0.44
1:13:453:A:C6	1:13:454:C:C4	3.06	0.44
1:13:599:C:H4'	8:7E:130:GLY:C	2.43	0.44
1:13:626:U:N3	1:13:627:G:N7	2.66	0.44
2:1E:6:THR:HG22	2:1E:224:GLN:HE22	1.81	0.44
3:2E:63:ASN:HA	3:2E:98:ASN:OD1	2.18	0.44
3:2E:156:ARG:H	3:2E:196:LEU:HD22	1.83	0.44
5:4E:143:ARG:NE	8:7E:77:GLU:OE1	2.46	0.44
26:1H:82:G:H5''	26:1H:296:C:H5'	1.99	0.44
26:1H:355:G:H2'	26:1H:356:G:H8	1.82	0.44
26:1H:431:U:O2'	26:1H:432:A:H5'	2.17	0.44
26:1H:1108:U:C2	26:1H:1109:C:N4	2.86	0.44
26:1H:2147:G:C5	26:1H:2148:G:H1'	2.53	0.44
26:1H:2579:C:O5'	26:1H:2579:C:H6	2.01	0.44
26:1H:2760:C:O2'	26:1H:2761:G:H5'	2.18	0.44
26:1H:2782:G:C8	26:1H:2782:G:O5'	2.71	0.44
28:71:36:LYS:HE2	28:71:36:LYS:HB2	1.64	0.44
29:11:233:HIS:CD2	29:11:233:HIS:N	2.86	0.44
29:11:245:PRO:CG	29:11:253:GLN:HE21	2.30	0.44
34:61:25:TYR:O	34:61:26:ALA:C	2.61	0.44
36:68:52:VAL:C	36:68:53:LYS:HD2	2.43	0.44
36:68:86:ILE:HG22	36:68:94:ARG:HD2	2.00	0.44
46:G8:101:LYS:C	46:G8:102:CYS:SG	3.01	0.44
49:J8:93:GLU:CG	49:J8:94:LEU:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:N8:22:HIS:ND1	53:N8:22:HIS:N	2.66	0.44
1:1G:56:U:O4	1:1G:352:C:N4	2.49	0.44
1:1G:427:U:O4	1:1G:428:G:C6	2.70	0.44
1:1G:991:U:O4	1:1G:1212:U:O2'	2.30	0.44
1:1G:1053:G:H4'	1:1G:1054:C:O5'	2.18	0.44
1:1G:1134:G:N1	1:1G:1135:U:C2	2.85	0.44
1:1G:1234:C:N4	1:1G:1235:U:O4	2.51	0.44
2:12:105:PHE:O	2:12:109:SER:N	2.46	0.44
7:62:93:PRO:CD	7:62:94:ARG:HH21	2.31	0.44
8:72:35:ILE:HG23	8:72:111:ILE:HD12	1.98	0.44
8:72:65:TYR:HA	8:72:79:VAL:HG23	2.00	0.44
13:4A:33:ALA:O	13:4A:37:THR:HB	2.18	0.44
23:2L:48:U:H1'	23:2L:49:C:O5'	2.17	0.44
26:14:39:C:H2'	26:14:40:C:C6	2.53	0.44
26:14:140:A:C6	26:14:141:A:N6	2.86	0.44
26:14:182:A:H2'	26:14:183:C:O4'	2.18	0.44
26:14:270(E):G:H2'	26:14:270(F):U:C6	2.52	0.44
26:14:867:C:C5	26:14:868:U:C4	3.02	0.44
26:14:1198:U:C2	26:14:1199:U:C5	3.05	0.44
26:14:1279:G:H4'	39:55:31:HIS:CD2	2.52	0.44
26:14:1710:C:H4'	26:14:2858:C:O2	2.17	0.44
26:14:2297:C:C6	26:14:2333:A:N1	2.86	0.44
26:14:2305:A:C6	32:49:136:ARG:CZ	3.01	0.44
33:59:149:ARG:HH12	33:59:163:TYR:HB3	1.83	0.44
37:35:37:GLY:O	37:35:40:SER:OG	2.33	0.44
37:35:47:ASP:HB3	37:35:48:PRO:HA	1.99	0.44
45:B5:29:TRP:HZ3	45:B5:78:LYS:HB2	1.80	0.44
1:13:171:A:C2	1:13:172:A:C4	3.05	0.44
1:13:384:G:H2'	1:13:385:C:C6	2.53	0.44
1:13:465:A:C8	1:13:467:G:C6	3.06	0.44
1:13:1219:U:H2'	1:13:1220:G:C8	2.53	0.44
1:13:1219:U:H2'	1:13:1220:G:H8	1.83	0.44
2:1E:234:PRO:CB	2:1E:236:TYR:HD2	2.31	0.44
4:3E:78:LEU:HB3	4:3E:93:PHE:HE1	1.83	0.44
4:3E:153:ARG:HB3	4:3E:181:MET:SD	2.57	0.44
7:6E:155:ARG:HG3	7:6E:155:ARG:HH21	1.82	0.44
13:4I:84:ILE:HD11	19:AI:66:MET:HG2	1.98	0.44
23:2K:38:A:C4	23:2K:39:A:C8	3.05	0.44
26:1H:1047:G:HO2'	26:1H:1048:A:H8	1.62	0.44
26:1H:1485:G:C2	26:1H:1486:A:C4	3.06	0.44
26:1H:1693:U:H4'	26:1H:1694:C:OP2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2309:A:C8	26:1H:2309:A:H3'	2.53	0.44
26:1H:2450:A:C2	26:1H:2451:A:C4	3.06	0.44
26:1H:2636:U:H2'	26:1H:2637:U:C5	2.53	0.44
26:1H:2863:C:H2'	26:1H:2864:G:C8	2.53	0.44
27:16:37:C:C2'	27:16:38:C:H5'	2.48	0.44
29:11:28:GLU:N	29:11:29:PRO:HD3	2.32	0.44
29:11:236:GLY:O	29:11:237:GLU:O	2.36	0.44
32:41:18:GLU:HG3	32:41:22:ARG:HD3	2.00	0.44
32:41:106:LEU:HG	32:41:107:LEU:HD23	2.00	0.44
33:51:3:ARG:NE	33:51:3:ARG:HA	2.33	0.44
35:58:121:LYS:HB3	35:58:123:TYR:CE1	2.53	0.44
39:98:44:LEU:C	39:98:44:LEU:CD2	2.91	0.44
41:B8:110:ILE:HG13	41:B8:111:ARG:H	1.81	0.44
42:C8:92:ARG:HB3	43:D8:11:GLN:NE2	2.33	0.44
1:1G:186(C):G:C2	1:1G:191(E):G:C2	3.06	0.44
1:1G:452:A:O2'	1:1G:453:A:O5'	2.36	0.44
1:1G:625:G:H2'	1:1G:626:U:C6	2.53	0.44
1:1G:777:A:C6	1:1G:778:G:C5	3.06	0.44
1:1G:980:C:H3'	1:1G:981:U:H6	1.83	0.44
1:1G:1243:C:H5''	21:1B:8:THR:OG1	2.18	0.44
1:1G:1342:C:H2'	1:1G:1343:G:H8	1.83	0.44
2:12:81:VAL:O	2:12:85:ALA:HB2	2.17	0.44
3:22:76:VAL:O	3:22:84:ILE:HB	2.17	0.44
3:22:130:VAL:HG13	3:22:134:ILE:CD1	2.48	0.44
6:52:81:ILE:HG23	6:52:82:ARG:HG3	1.98	0.44
11:2A:103:LEU:HA	11:2A:103:LEU:HD12	1.63	0.44
26:14:186:G:H2'	26:14:187:G:H8	1.83	0.44
26:14:768:G:H2'	26:14:769:G:H8	1.83	0.44
26:14:1159:U:O2'	26:14:1160:G:H5'	2.17	0.44
26:14:1729:A:C2'	26:14:1730:U:H5''	2.47	0.44
26:14:1858:G:H2'	26:14:1883:G:N2	2.33	0.44
26:14:2115:G:H4'	26:14:2166:G:H1'	2.00	0.44
26:14:2198:A:C2	34:69:29:TYR:HB2	2.53	0.44
26:14:2355:C:H1'	48:E5:36:ILE:HD11	2.00	0.44
26:14:2465:C:O2	26:14:2486:G:C2	2.70	0.44
27:1J:20:C:N4	27:1J:21:G:C6	2.86	0.44
30:29:55:ASN:O	30:29:57:LYS:N	2.43	0.44
30:29:70:ALA:O	30:29:72:VAL:HG22	2.18	0.44
30:29:195:LEU:HD12	30:29:195:LEU:HA	1.72	0.44
32:49:15:VAL:HG12	32:49:19:LEU:HD11	1.99	0.44
34:69:52:ARG:HA	34:69:55:ALA:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:65:24:LEU:HD12	40:65:41:ASP:HB2	2.00	0.44
40:65:54:LEU:C	40:65:56:LEU:N	2.76	0.44
43:95:95:LEU:HD23	43:95:96:ILE:N	2.33	0.44
45:B5:26:TYR:OH	45:B5:88:LYS:HA	2.17	0.44
47:D5:28:MET:HB2	47:D5:35:ARG:O	2.17	0.44
49:F5:91:LYS:O	49:F5:92:LYS:C	2.60	0.44
50:G5:8:LYS:HG2	50:G5:9:GLN:N	2.33	0.44
1:13:116:A:H2'	1:13:117:G:O4'	2.17	0.44
1:13:186(C):G:C5	1:13:191(E):G:C2	3.06	0.44
1:13:277:C:H2'	1:13:278:G:C8	2.52	0.44
1:13:618:C:H5''	1:13:619:U:H5''	2.00	0.44
1:13:821:G:C2	1:13:880:C:N3	2.86	0.44
1:13:843:U:O2	1:13:843:U:H2'	2.18	0.44
1:13:868:C:H2'	1:13:869:G:O4'	2.18	0.44
1:13:900:A:H8	1:13:900:A:O5'	2.01	0.44
1:13:1120:G:H2'	1:13:1121:U:C6	2.52	0.44
1:13:1340:A:OP1	24:3K:35:U:OP1	2.35	0.44
4:3E:57:ARG:HG2	4:3E:202:LEU:HD22	2.00	0.44
7:6E:20:ASP:HB3	7:6E:23:VAL:HG23	2.00	0.44
8:7E:9:MET:O	8:7E:10:LEU:C	2.59	0.44
13:4I:82:MET:C	13:4I:84:ILE:N	2.66	0.44
17:8I:65:ILE:HB	17:8I:69:LYS:HB3	2.00	0.44
26:1H:297:C:H5''	46:G8:86:ARG:CG	2.43	0.44
26:1H:320:A:H4'	26:1H:322:A:N7	2.33	0.44
26:1H:360:G:H2'	26:1H:361:G:C8	2.53	0.44
26:1H:363:G:C2	26:1H:363(A):A:C8	3.06	0.44
26:1H:381:G:C4	26:1H:394:A:C2	3.06	0.44
26:1H:395:U:H1'	26:1H:396:G:N7	2.33	0.44
26:1H:529:A:H8	26:1H:530:G:C6	2.35	0.44
26:1H:604:G:OP2	37:78:90:ARG:NH2	2.48	0.44
26:1H:864:G:O2'	26:1H:865:C:H5'	2.18	0.44
26:1H:1559:G:O2'	26:1H:1560:G:H5'	2.17	0.44
26:1H:1757:U:O2'	26:1H:1758:G:OP1	2.33	0.44
26:1H:2232:U:P	49:J8:40:ARG:HH12	2.41	0.44
26:1H:2634:G:H2'	26:1H:2635:C:O4'	2.17	0.44
26:1H:2862:G:O2'	26:1H:2863:C:H5'	2.18	0.44
27:16:89:G:C6	27:16:89(A):A:C6	3.05	0.44
29:11:162:SER:HB3	29:11:195:ALA:HA	2.00	0.44
34:61:41:GLU:CG	34:61:42:SER:N	2.79	0.44
34:61:86:THR:HA	34:61:123:LEU:HD13	2.00	0.44
34:61:113:ARG:NH1	34:61:132:PRO:HB3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:88:2:LEU:HD12	38:88:2:LEU:N	2.33	0.44
46:G8:97:ARG:NH2	46:G8:103:GLY:C	2.76	0.44
48:I8:53:MET:HA	48:I8:58:THR:O	2.18	0.44
1:1G:1085:U:H5'	1:1G:1094:G:H21	1.82	0.44
1:1G:1243:C:O5'	1:1G:1243:C:H6	2.01	0.44
1:1G:1322:C:O2'	1:1G:1323:G:H5'	2.17	0.44
1:1G:1369:C:P	14:5A:61:TRP:HE1	2.41	0.44
2:12:155:LEU:HD22	2:12:157:ARG:HB2	2.00	0.44
4:32:49:ARG:HG2	4:32:50:ARG:H	1.83	0.44
4:32:64:LEU:HB2	4:32:198:VAL:HG11	2.00	0.44
5:42:37:ARG:HG2	5:42:112:LEU:HA	2.00	0.44
7:62:18:TYR:CD2	7:62:59:LEU:HB2	2.53	0.44
10:1A:50:ILE:HD13	10:1A:60:ARG:HD2	2.00	0.44
13:4A:63:THR:HG22	13:4A:64:TRP:CG	2.52	0.44
14:5A:21:TYR:CE2	14:5A:23:ARG:HB2	2.52	0.44
14:5A:27:CYS:SG	14:5A:40:CYS:HB2	2.58	0.44
23:2L:20:G:O4'	23:2L:58:A:H2	2.00	0.44
26:14:121:G:O5'	26:14:121:G:C8	2.70	0.44
26:14:599:G:H8	26:14:599:G:H5''	1.83	0.44
26:14:948:G:C2	26:14:970:C:O2	2.71	0.44
26:14:1021:A:H8	26:14:1021:A:H3'	1.83	0.44
26:14:1059:G:H2'	26:14:1060:U:C5	2.53	0.44
26:14:1184:G:C6	26:14:1185:C:C4	3.05	0.44
26:14:1252:G:C2	42:85:33:ARG:HD2	2.53	0.44
26:14:1482:U:H3	26:14:1512:G:H1	1.65	0.44
26:14:1651:G:N2	26:14:2007:C:C2	2.86	0.44
26:14:1666:G:OP1	36:25:66:LYS:HD3	2.18	0.44
26:14:1993:U:H4'	30:29:128:SER:OG	2.17	0.44
26:14:2210:G:H5'	26:14:2211:G:C6	2.53	0.44
26:14:2601:C:H2'	26:14:2603:G:C8	2.53	0.44
26:14:2707:G:O3'	39:55:68:ARG:HG2	2.18	0.44
26:14:2712:U:O2'	26:14:2712(A):A:P	2.76	0.44
26:14:2720:U:O2	26:14:2720:U:H2'	2.18	0.44
29:19:69:ARG:NH2	29:19:128:GLY:O	2.51	0.44
32:49:82:LEU:HD23	32:49:82:LEU:HA	1.72	0.44
34:69:122:GLU:HG3	34:69:123:LEU:H	1.83	0.44
35:15:96:GLU:CD	35:15:96:GLU:H	2.25	0.44
42:85:92:ARG:HG2	43:95:11:GLN:CD	2.43	0.44
46:C5:2:ARG:HA	46:C5:2:ARG:CZ	2.48	0.44
47:D5:77:ASP:CG	47:D5:80:ARG:HH11	2.26	0.44
49:F5:53:VAL:HB	49:F5:74:VAL:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:150:C:H2'	1:13:151:A:C8	2.53	0.43
1:13:241:C:C2	1:13:286:G:C2	3.05	0.43
1:13:323:U:C5'	20:BI:23:ARG:HB2	2.47	0.43
1:13:452:A:H2'	1:13:453:A:C8	2.53	0.43
1:13:491:G:C4	1:13:492:G:C8	3.06	0.43
1:13:603:U:H2'	1:13:604:G:C8	2.53	0.43
1:13:613:C:N4	1:13:627:G:H1	2.00	0.43
1:13:837:G:H1	1:13:849:C:H42	1.66	0.43
3:2E:152:ILE:HB	3:2E:199:LYS:HB2	2.00	0.43
5:4E:145:LYS:HD3	5:4E:145:LYS:N	2.33	0.43
11:2I:83:ILE:HA	11:2I:109:VAL:HG23	2.00	0.43
22:1K:10:G:H22	22:1K:26:A:C2'	2.30	0.43
22:1K:74:C:N4	26:1H:2507:C:O2'	2.51	0.43
23:2K:57:C:H2'	23:2K:58:A:C8	2.53	0.43
24:3K:57:G:H5''	24:3K:58:A:OP2	2.18	0.43
26:1H:1049:C:N3	26:1H:2751:G:O6	2.50	0.43
26:1H:1319:G:C6	26:1H:1320:C:N4	2.86	0.43
26:1H:1470:G:N2	26:1H:1521:G:H3'	2.32	0.43
26:1H:2131:G:H5''	26:1H:2132:U:OP1	2.18	0.43
26:1H:2331:G:C4'	48:I8:42:GLY:HA3	2.48	0.43
26:1H:2725:A:C4	26:1H:2727:G:C8	3.05	0.43
29:11:67:PHE:HB3	29:11:153:ALA:H	1.82	0.43
31:31:52:LYS:HB3	31:31:57:VAL:HG23	1.99	0.43
32:41:28:VAL:O	32:41:31:VAL:HG22	2.18	0.43
32:41:35:GLU:OE1	32:41:35:GLU:HA	2.18	0.43
32:41:67:LYS:HD2	52:M8:6:HIS:HB2	2.00	0.43
36:68:106:LEU:HD23	36:68:106:LEU:HA	1.53	0.43
45:F8:4:ALA:H	45:F8:7:VAL:HG23	1.83	0.43
47:H8:158:PRO:O	47:H8:161:VAL:HG22	2.17	0.43
51:L8:47:VAL:HG11	51:L8:56:VAL:HG11	1.99	0.43
54:P8:8:ASN:OD1	54:P8:8:ASN:C	2.60	0.43
54:P8:24:THR:HG23	54:P8:27:GLY:HA3	2.00	0.43
1:1G:49:U:O4'	12:3A:28:LYS:NZ	2.48	0.43
1:1G:129(A):G:C2	1:1G:191(A):G:C8	3.06	0.43
1:1G:197:A:H8	1:1G:198:G:N9	2.16	0.43
1:1G:243:A:C2	1:1G:245:C:C2	3.07	0.43
1:1G:338:A:H2'	1:1G:339:C:C6	2.53	0.43
1:1G:1089:G:C6	1:1G:1090:U:C2	3.05	0.43
1:1G:1239:A:O2'	1:1G:1298:C:N4	2.51	0.43
2:12:55:PHE:CE1	2:12:221:LEU:HD11	2.53	0.43
3:22:12:LEU:CD2	3:22:18:TRP:CZ3	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:22:92:ALA:HB2	3:22:99:VAL:HG13	2.00	0.43
3:22:152:ILE:HG23	3:22:167:TRP:HB3	2.00	0.43
4:32:101:LEU:HA	4:32:101:LEU:HD12	1.73	0.43
9:82:71:SER:O	9:82:74:ILE:HB	2.18	0.43
11:2A:96:ARG:O	11:2A:99:GLN:N	2.50	0.43
16:7A:40:ASP:HB3	16:7A:48:TRP:HB2	1.98	0.43
57:3L:22:G:N2	57:3L:23:A:C8	2.86	0.43
26:14:110:G:C2	26:14:111:A:C8	3.06	0.43
26:14:189:G:OP2	49:F5:39:LYS:HE2	2.18	0.43
26:14:654:A:N3	26:14:654:A:H2'	2.33	0.43
26:14:729:G:H2'	26:14:1775:U:H1'	2.00	0.43
26:14:1015:G:H2'	26:14:1016:G:H8	1.83	0.43
26:14:1088:A:N3	26:14:1088:A:H2'	2.33	0.43
26:14:1187:G:O5'	26:14:1187:G:C8	2.60	0.43
26:14:1266:G:OP2	53:J5:20:ARG:NE	2.32	0.43
26:14:1282:U:H2'	26:14:1283:G:O4'	2.17	0.43
26:14:1298:C:N4	26:14:1299:G:C6	2.86	0.43
26:14:1637:A:OP2	61:14:3539:HOH:O	2.21	0.43
26:14:1927:A:H2'	26:14:1928:A:C8	2.53	0.43
26:14:2575:C:H2'	26:14:2578:G:O6	2.18	0.43
26:14:2643:G:H2'	26:14:2644:G:O4'	2.18	0.43
29:19:132:PRO:HG3	29:19:190:TYR:CZ	2.52	0.43
29:19:158:ALA:O	29:19:159:ALA:C	2.59	0.43
30:29:36:ARG:HA	30:29:36:ARG:HD2	1.78	0.43
30:29:54:GLN:H	30:29:74:PRO:CB	2.30	0.43
30:29:55:ASN:HD22	30:29:75:VAL:CG1	2.30	0.43
30:29:61:ARG:HA	30:29:63:LEU:HD23	2.00	0.43
31:39:40:GLN:NE2	31:39:182:ASN:HB2	2.31	0.43
32:49:15:VAL:HG13	32:49:175:LEU:HD13	2.00	0.43
33:59:152:ARG:H	33:59:162:ILE:HD12	1.81	0.43
35:15:41:ASP:HB3	35:15:48:MET:HE3	2.00	0.43
41:75:88:ILE:HG21	41:75:91:ARG:NH2	2.33	0.43
42:85:98:LEU:HD12	42:85:98:LEU:O	2.18	0.43
43:95:34:GLU:HG2	43:95:58:VAL:HG22	2.00	0.43
46:C5:29:GLU:OE1	46:C5:30:VAL:N	2.51	0.43
46:C5:42:VAL:O	46:C5:65:ALA:N	2.37	0.43
46:C5:73:ARG:NE	46:C5:74:PRO:HD2	2.33	0.43
47:D5:137:ILE:HD12	47:D5:156:LYS:C	2.43	0.43
49:F5:94:LEU:HA	49:F5:94:LEU:HD23	1.68	0.43
1:13:282:A:C4	1:13:283:C:C6	3.06	0.43
1:13:358:U:H2'	1:13:359:U:O4'	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:509:A:H5''	4:3E:55:ALA:HB2	2.00	0.43
1:13:834:C:C2	1:13:853:G:C2	3.05	0.43
1:13:942:G:C2	1:13:943:U:C6	3.06	0.43
1:13:1183:A:O2'	1:13:1184:G:OP1	2.31	0.43
1:13:1455:G:O5'	1:13:1455:G:C8	2.71	0.43
2:1E:108:ILE:HD12	2:1E:108:ILE:HA	1.77	0.43
4:3E:19:LEU:CB	4:3E:21:LEU:HD11	2.43	0.43
4:3E:107:ARG:HH22	4:3E:194:LEU:CD2	2.30	0.43
5:4E:12:LEU:HG	5:4E:13:ILE:N	2.33	0.43
12:3I:60:LEU:O	12:3I:61:THR:C	2.61	0.43
19:AI:4:SER:O	19:AI:5:LEU:HD23	2.18	0.43
26:1H:34:C:OP2	26:1H:34:C:C2	2.71	0.43
26:1H:66:C:C4	26:1H:67:U:C4	3.05	0.43
26:1H:214:G:H4'	26:1H:214:G:OP1	2.18	0.43
26:1H:247:G:O2'	26:1H:250:G:N7	2.47	0.43
26:1H:511:U:C5	26:1H:512:G:C5	3.05	0.43
26:1H:956:G:H2'	26:1H:957:A:H2'	2.00	0.43
26:1H:1022:G:O2'	26:1H:1023:U:OP2	2.30	0.43
26:1H:1372:U:H2'	26:1H:1373:A:C8	2.53	0.43
26:1H:1534:G:N1	26:1H:1539:G:N3	2.60	0.43
26:1H:1643:G:C4	26:1H:1644:C:C6	3.06	0.43
26:1H:1831:G:C4	26:1H:1975:G:N2	2.86	0.43
26:1H:2133:G:C8	26:1H:2156:G:C5	3.06	0.43
26:1H:2148:G:C4	26:1H:2149:G:C8	3.05	0.43
26:1H:2210:G:H2'	26:1H:2211:G:C5	2.53	0.43
26:1H:2518:A:C5'	26:1H:2518:A:H8	2.30	0.43
26:1H:2638:G:P	30:21:82:ARG:HH21	2.42	0.43
29:11:232:PRO:HB3	29:11:244:ARG:NH1	2.33	0.43
32:41:53:LEU:O	32:41:56:ALA:N	2.51	0.43
35:58:57:ALA:C	35:58:59:LYS:H	2.25	0.43
37:78:36:LYS:HE2	37:78:39:LYS:HB3	2.00	0.43
37:78:57:THR:OG1	37:78:60:MET:HB2	2.18	0.43
42:C8:61:TRP:O	42:C8:65:ILE:HG13	2.18	0.43
42:C8:76:TYR:CD1	42:C8:76:TYR:C	2.96	0.43
44:E8:34:ASN:HD22	53:N8:39:MET:HB2	1.83	0.43
46:G8:43:ASN:CB	46:G8:67:LEU:HD11	2.48	0.43
47:H8:137:ILE:HG21	47:H8:155:LEU:HD13	2.00	0.43
47:H8:138:GLU:OE2	47:H8:156:LYS:HG2	2.18	0.43
49:J8:46:LEU:HA	49:J8:46:LEU:HD12	1.78	0.43
1:1G:116:A:O5'	1:1G:116:A:H8	2.01	0.43
1:1G:264:U:O2'	17:8A:63:ARG:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:375:U:O2'	16:7A:6:LEU:O	2.35	0.43
1:1G:603:U:H2'	1:1G:604:G:C8	2.53	0.43
1:1G:707:C:H2'	1:1G:708:C:C6	2.53	0.43
1:1G:878:G:H5'	8:72:89:PRO:HG2	1.99	0.43
1:1G:1084:G:H2'	1:1G:1085:U:C6	2.53	0.43
4:32:19:LEU:HD12	4:32:21:LEU:HD11	2.00	0.43
6:52:30:LEU:HB3	6:52:35:ALA:HB3	2.00	0.43
7:62:65:ALA:CB	7:62:124:LEU:HD23	2.47	0.43
10:1A:78:ASN:ND2	10:1A:81:THR:HG23	2.32	0.43
12:3A:45:PRO:HB2	12:3A:92:ASP:HB3	2.01	0.43
13:4A:84:ILE:C	13:4A:86:CYS:N	2.74	0.43
15:6A:78:TYR:HD1	15:6A:79:ARG:HG3	1.83	0.43
57:3L:14:A:H2'	57:3L:14:A:N3	2.32	0.43
57:3L:71:C:H2'	57:3L:72:C:H5''	1.99	0.43
26:14:205:G:O2'	26:14:206:U:P	2.75	0.43
26:14:330:A:H2	26:14:1210:A:O2'	2.01	0.43
26:14:528:A:N1	26:14:2042:A:H2'	2.33	0.43
26:14:1171:G:O6	26:14:1176:G:H1'	2.18	0.43
26:14:1309:G:HO2'	26:14:1611:C:HO2'	1.59	0.43
26:14:1487:G:N2	26:14:1503:U:O2	2.51	0.43
26:14:1802:A:N1	26:14:1822:G:H1'	2.33	0.43
26:14:1885:A:H5'	26:14:1886:C:OP2	2.18	0.43
26:14:2104:G:H2'	26:14:2105:C:H6	1.82	0.43
26:14:2443:C:OP1	31:39:68:LYS:HG2	2.18	0.43
26:14:2526:G:H5'	26:14:2742:C:O2'	2.17	0.43
26:14:2745:C:O2'	33:59:143:GLN:O	2.25	0.43
29:19:65:ILE:HD11	29:19:67:PHE:CE1	2.53	0.43
30:29:57:LYS:HZ3	30:29:57:LYS:HG2	1.51	0.43
30:29:63:LEU:HA	30:29:63:LEU:HD13	1.75	0.43
31:39:53:THR:HB	31:39:56:GLU:CD	2.44	0.43
31:39:161:GLU:HG3	31:39:162:LEU:N	2.33	0.43
32:49:36:LYS:HE2	32:49:95:ARG:HH22	1.83	0.43
34:69:123:LEU:HA	34:69:142:VAL:CG2	2.49	0.43
35:15:13:TRP:O	35:15:135:PRO:HD2	2.17	0.43
37:35:8:PRO:HG2	37:35:13:ASN:HD22	1.83	0.43
45:B5:21:PHE:N	45:B5:21:PHE:CD1	2.86	0.43
46:C5:15:VAL:HG23	46:C5:72:VAL:HG12	2.00	0.43
46:C5:82:PRO:HB3	46:C5:99:CYS:CB	2.48	0.43
50:G5:63:VAL:O	50:G5:66:GLU:HG2	2.17	0.43
1:13:130:A:OP2	17:8I:63:ARG:NE	2.51	0.43
1:13:373:A:C4	1:13:374:A:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:396:G:C2	1:13:398:C:C4	3.05	0.43
1:13:413:G:N2	1:13:428:G:H1'	2.33	0.43
1:13:1028(B):C:H3'	1:13:1029:G:C5'	2.48	0.43
2:1E:105:PHE:HZ	2:1E:156:LYS:HD3	1.83	0.43
5:4E:11:ILE:HG12	5:4E:31:LEU:HB3	2.00	0.43
6:5E:22:GLU:O	6:5E:25:ILE:HG22	2.18	0.43
7:6E:111:ARG:HD2	7:6E:123:GLU:HB2	1.99	0.43
9:8E:9:ARG:HA	9:8E:76:ALA:HB1	1.99	0.43
9:8E:112:LYS:C	9:8E:113:LYS:HD2	2.43	0.43
12:3I:60:LEU:HD12	12:3I:62:SER:H	1.83	0.43
14:5I:23:ARG:HD3	14:5I:30:ALA:HB2	2.01	0.43
21:1F:9:ARG:NH1	21:1F:22:ARG:HA	2.34	0.43
24:3K:9:A:N3	24:3K:46:G:N2	2.66	0.43
26:1H:1161:C:H3'	26:1H:1161:C:H6	1.83	0.43
26:1H:1316:U:H2'	26:1H:1317:A:C8	2.54	0.43
26:1H:1475:G:N2	26:1H:1476:C:O2	2.51	0.43
26:1H:1510:A:OP1	26:1H:1511:A:H5'	2.18	0.43
26:1H:1603:A:OP1	26:1H:1604:C:OP2	2.36	0.43
31:31:103:LYS:HA	31:31:106:ARG:HD3	2.00	0.43
35:58:57:ALA:O	35:58:58:ASP:CG	2.61	0.43
36:68:104:ARG:NH1	41:B8:36:GLU:OE1	2.51	0.43
41:B8:125:ARG:O	41:B8:129:ARG:N	2.31	0.43
50:K8:2:LYS:HA	50:K8:3:LEU:HA	1.81	0.43
53:N8:33:CYS:SG	53:N8:46:CYS:HB3	2.58	0.43
53:N8:40:LYS:CG	53:N8:47:PRO:HD2	2.48	0.43
1:1G:176:C:O2'	1:1G:177:C:H5'	2.18	0.43
1:1G:192:U:H4'	20:BA:103:GLY:HA2	2.00	0.43
1:1G:1055:A:C5	1:1G:1206:G:C2	3.05	0.43
1:1G:1319:A:H61	1:1G:1361:G:N2	2.16	0.43
2:12:28:PHE:CE1	2:12:31:TYR:HE1	2.37	0.43
4:32:90:GLY:O	4:32:93:PHE:HB3	2.18	0.43
5:42:15:ARG:HG2	5:42:26:PHE:HD2	1.83	0.43
6:52:94:GLN:HB3	18:9A:32:ARG:HD2	2.00	0.43
7:62:12:LEU:HD11	7:62:25:ALA:HB2	2.00	0.43
8:72:25:ASP:OD2	8:72:60:ARG:NH1	2.51	0.43
12:3A:102:ARG:HB3	12:3A:108:ALA:O	2.18	0.43
57:3L:67:C:H3'	57:3L:68:G:H8	1.83	0.43
26:14:82:G:N1	26:14:103:A:OP2	2.44	0.43
26:14:198:C:H4'	26:14:2243:U:O2'	2.18	0.43
26:14:516:C:H6	26:14:516:C:O5'	2.01	0.43
26:14:943:U:OP2	37:35:36:LYS:CG	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1128:A:O2'	26:14:2490:G:OP1	2.30	0.43
26:14:1572:A:H2'	26:14:1573:G:O4'	2.17	0.43
26:14:2262:U:H4'	26:14:2328:A:C2	2.54	0.43
26:14:2626:C:H2'	26:14:2627:G:O4'	2.19	0.43
29:19:25:THR:O	29:19:27:THR:O	2.36	0.43
29:19:106:ILE:O	29:19:108:PRO:HD3	2.18	0.43
32:49:114:ILE:HG13	32:49:117:PHE:HD1	1.81	0.43
34:69:13:GLY:HA3	34:69:17:GLN:OE1	2.18	0.43
37:35:59:LEU:O	37:35:59:LEU:HD22	2.18	0.43
38:45:4:PRO:CG	38:45:71:ASP:HA	2.48	0.43
38:45:19:GLY:O	38:45:98:LYS:HB3	2.18	0.43
40:65:14:VAL:HG21	40:65:89:ARG:HH11	1.83	0.43
42:85:74:LEU:HB2	42:85:78:THR:OG1	2.18	0.43
46:C5:30:VAL:O	46:C5:36:ALA:O	2.36	0.43
47:D5:60:GLU:HA	47:D5:67:LEU:H	1.83	0.43
50:G5:16:LEU:O	50:G5:21:LEU:HG	2.18	0.43
50:G5:18:PRO:O	50:G5:21:LEU:HB2	2.18	0.43
1:13:223:U:H2'	1:13:224:C:C6	2.54	0.43
1:13:931:C:O2	1:13:1387:G:C2	2.71	0.43
1:13:975:A:H5'	1:13:975:A:H8	1.84	0.43
1:13:1299:A:C2'	1:13:1301:U:H1'	2.48	0.43
3:2E:11:ARG:HB3	3:2E:14:ILE:O	2.18	0.43
8:7E:51:VAL:HG11	8:7E:60:ARG:HH11	1.83	0.43
14:5I:39:LEU:HD11	14:5I:47:LEU:HD12	2.00	0.43
16:7I:43:LYS:HA	16:7I:48:TRP:CB	2.47	0.43
22:1K:1:G:H3'	22:1K:2:G:H8	1.84	0.43
26:1H:25:U:H2'	26:1H:26:G:C8	2.53	0.43
26:1H:566:U:OP1	37:78:29:LYS:HD2	2.19	0.43
26:1H:1263:U:C4	26:1H:1264:G:C6	3.06	0.43
26:1H:1329:U:H3'	26:1H:1330:C:H6	1.81	0.43
26:1H:1380:G:N2	26:1H:1570:A:C2	2.87	0.43
26:1H:1782:C:O4'	26:1H:2609:U:C2	2.71	0.43
26:1H:1817:G:O2'	26:1H:1818:U:H5'	2.18	0.43
26:1H:1853:A:N1	26:1H:2087:G:H1'	2.33	0.43
26:1H:1992:G:N2	26:1H:1996:C:O2'	2.50	0.43
26:1H:2119:A:C2	26:1H:2171:A:N3	2.86	0.43
26:1H:2227:A:N7	26:1H:2228:G:N7	2.66	0.43
26:1H:2331:G:O2'	26:1H:2336:A:N1	2.40	0.43
26:1H:2518:A:C8	26:1H:2518:A:H5''	2.54	0.43
33:51:84:SER:O	33:51:85:LYS:HB2	2.19	0.43
38:88:139:GLU:OE1	47:H8:122:ARG:NH1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:47:TYR:CD1	42:C8:47:TYR:C	2.97	0.43
43:D8:83:ARG:HD3	43:D8:83:ARG:HA	1.61	0.43
45:F8:77:LYS:HG2	45:F8:78:LYS:N	2.33	0.43
53:N8:40:LYS:HE2	53:N8:47:PRO:CG	2.48	0.43
53:N8:49:CYS:SG	53:N8:49:CYS:O	2.77	0.43
1:1G:15:G:C6	1:1G:1396:A:C2	3.07	0.43
1:1G:17:U:H1'	1:1G:1080:A:H1'	1.99	0.43
1:1G:52:G:C4	1:1G:53:A:C8	3.07	0.43
1:1G:784:C:H2'	1:1G:785:G:O4'	2.18	0.43
1:1G:995:C:O2'	1:1G:996:A:H5'	2.17	0.43
1:1G:1129:C:N4	1:1G:1142:G:N7	2.65	0.43
1:1G:1140:C:H2'	1:1G:1141:C:C6	2.53	0.43
1:1G:1145:C:H4'	1:1G:1146:A:H8	1.84	0.43
1:1G:1170:A:N6	1:1G:1171:G:N3	2.67	0.43
4:32:126:ILE:HG22	4:32:127:THR:N	2.33	0.43
4:32:173:TRP:HZ3	4:32:193:ASP:HB2	1.82	0.43
4:32:179:GLU:N	4:32:181:MET:H	2.16	0.43
5:42:35:GLY:CA	5:42:41:VAL:HG12	2.47	0.43
5:42:81:GLU:O	5:42:81:GLU:HG3	2.19	0.43
8:72:97:VAL:HG22	8:72:129:VAL:C	2.44	0.43
9:82:14:VAL:H	9:82:65:VAL:HG23	1.84	0.43
13:4A:53:VAL:O	13:4A:57:ARG:HG2	2.18	0.43
19:AA:66:MET:SD	19:AA:69:HIS:CE1	3.12	0.43
23:2L:5:G:H8	23:2L:5:G:O5'	2.02	0.43
26:14:929:G:C8	26:14:929:G:C3'	3.01	0.43
26:14:957:A:C5'	38:45:76:LYS:HE2	2.47	0.43
26:14:1021:A:H3'	26:14:1021:A:C8	2.54	0.43
26:14:1093:G:H2'	26:14:1093:G:N3	2.33	0.43
26:14:1286:A:N6	26:14:1329:U:O2'	2.49	0.43
26:14:1530:G:H1	26:14:1541:U:H3	1.66	0.43
26:14:1712:C:H2'	26:14:1716:U:O4'	2.18	0.43
26:14:1973:G:H2'	26:14:1974:C:H6	1.83	0.43
26:14:1999:C:H5''	26:14:2723:C:O2'	2.19	0.43
26:14:2019:A:N6	26:14:2020:A:C5	2.86	0.43
26:14:2056:G:O3'	53:J5:8:LYS:NZ	2.52	0.43
26:14:2162:G:C2'	26:14:2163:C:H5'	2.47	0.43
26:14:2327:A:H2'	26:14:2328:A:H8	1.79	0.43
27:1J:40:U:C2	27:1J:43:C:OP2	2.72	0.43
27:1J:43:C:H4'	32:49:66:GLN:OE1	2.17	0.43
31:39:122:LYS:HA	31:39:191:ARG:NH2	2.33	0.43
32:49:29:TRP:O	32:49:30:GLU:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:69:44:LEU:HD23	34:69:44:LEU:HA	1.79	0.43
36:25:21:CYS:SG	36:25:22:ILE:N	2.91	0.43
37:35:86:LYS:HG3	37:35:87:ASP:N	2.33	0.43
40:65:27:SER:HB3	40:65:38:GLN:HB2	2.00	0.43
40:65:66:ALA:O	40:65:67:ARG:C	2.62	0.43
43:95:57:VAL:HG23	43:95:99:ILE:N	2.30	0.43
43:95:72:VAL:O	43:95:72:VAL:HG13	2.18	0.43
45:B5:14:SER:O	45:B5:15:GLU:C	2.61	0.43
47:D5:80:ARG:HB2	47:D5:82:ARG:HG2	2.00	0.43
49:F5:72:GLU:OE2	49:F5:76:ARG:NH2	2.52	0.43
55:M5:59:LYS:O	55:M5:62:LEU:N	2.35	0.43
1:13:276:G:O6	1:13:277:C:N4	2.51	0.43
1:13:792:A:H4'	1:13:793:U:O5'	2.19	0.43
1:13:925:G:H1	1:13:1391:U:H3	1.64	0.43
1:13:1072:G:C6	1:13:1073:U:N3	2.86	0.43
1:13:1406:U:O2	1:13:1517:G:N2	2.49	0.43
4:3E:31:CYS:O	4:3E:33:MET:N	2.51	0.43
6:5E:19:LEU:O	6:5E:23:LYS:N	2.40	0.43
8:7E:98:LYS:H	8:7E:98:LYS:CD	2.24	0.43
9:8E:9:ARG:N	9:8E:9:ARG:HD2	2.34	0.43
17:8I:22:LEU:HD12	17:8I:40:LYS:O	2.18	0.43
26:1H:217:G:H3'	61:1H:3564:HOH:O	2.18	0.43
26:1H:1205:U:H4'	26:1H:1206:G:OP2	2.18	0.43
26:1H:1320:C:O2'	26:1H:1329:U:OP2	2.28	0.43
26:1H:1475:G:C2	26:1H:1476:C:C2	3.06	0.43
26:1H:1536:A:H5''	26:1H:1537:C:C5	2.53	0.43
26:1H:1759:A:H4'	26:1H:2715:C:O4'	2.18	0.43
26:1H:1777:U:O2'	26:1H:1778:U:H5'	2.17	0.43
26:1H:1931:U:H2'	26:1H:1932:A:O4'	2.19	0.43
26:1H:2111:C:N3	26:1H:2118:U:O2'	2.49	0.43
26:1H:2183:C:H2'	26:1H:2184:G:H8	1.83	0.43
26:1H:2306:C:H3'	26:1H:2307:G:H5'	1.98	0.43
26:1H:2309:A:H3'	26:1H:2309:A:H8	1.83	0.43
26:1H:2532:G:H2'	26:1H:2533:A:O4'	2.19	0.43
32:41:132:ASN:OD1	32:41:132:ASN:N	2.51	0.43
34:61:124:GLY:H	34:61:142:VAL:CG2	2.31	0.43
37:78:19:VAL:HG23	37:78:20:GLY:HA3	1.99	0.43
37:78:80:TYR:CE1	37:78:111:ARG:HD3	2.52	0.43
39:98:67:LEU:O	39:98:68:ARG:C	2.61	0.43
41:B8:55:ASN:N	41:B8:59:THR:HG22	2.34	0.43
41:B8:99:LEU:HD12	41:B8:99:LEU:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:F8:14:SER:O	45:F8:17:ALA:N	2.51	0.43
45:F8:25:LYS:HA	45:F8:81:VAL:O	2.19	0.43
46:G8:43:ASN:O	46:G8:64:GLU:HA	2.18	0.43
55:Q8:37:SER:O	55:Q8:38:GLY:C	2.62	0.43
55:Q8:51:ALA:HB1	55:Q8:52:LYS:HG3	2.00	0.43
1:1G:200:G:H1	1:1G:217:C:N4	2.16	0.43
1:1G:235:C:H5'	17:8A:70:ARG:CG	2.49	0.43
1:1G:566:G:H8	1:1G:566:G:OP1	2.01	0.43
1:1G:571:U:O2	1:1G:918:A:H5'	2.18	0.43
1:1G:867:G:O2'	1:1G:868:C:H5'	2.17	0.43
1:1G:1012:U:H3	1:1G:1017:G:H1	1.66	0.43
1:1G:1182:G:H5'	1:1G:1183:A:H5'	2.00	0.43
1:1G:1186:G:O3'	9:82:113:LYS:HE3	2.18	0.43
17:8A:3:LYS:HB3	17:8A:61:GLU:HB3	2.00	0.43
17:8A:56:VAL:O	17:8A:77:VAL:N	2.43	0.43
57:3L:49:G:N3	57:3L:49:G:H2'	2.32	0.43
26:14:289:A:H3'	26:14:290:G:C8	2.49	0.43
26:14:363(B):G:H2'	26:14:363(C):G:C8	2.54	0.43
26:14:432:A:H2'	26:14:433:C:O4'	2.19	0.43
26:14:747:U:O2	26:14:2014:A:H1'	2.18	0.43
26:14:1769:G:O2'	26:14:1958:C:H5''	2.19	0.43
26:14:2027:G:H1'	26:14:2037:G:N2	2.33	0.43
26:14:2459:A:C4	26:14:2460:U:C6	3.06	0.43
26:14:2857:G:C2	26:14:2861:G:C6	3.06	0.43
27:1J:24:G:H4'	27:1J:25:A:H8	1.82	0.43
30:29:100:GLU:O	30:29:172:VAL:HG23	2.18	0.43
31:39:83:PHE:O	31:39:85:GLY:N	2.50	0.43
31:39:144:LYS:HA	31:39:144:LYS:HD3	1.49	0.43
34:69:7:GLU:HG2	34:69:8:PRO:CD	2.46	0.43
37:35:138:LEU:HG	37:35:144:GLU:HG2	2.01	0.43
40:65:95:HIS:C	40:65:99:LYS:HB3	2.43	0.43
44:A5:15:ARG:O	44:A5:19:LEU:CD2	2.67	0.43
47:D5:137:ILE:HG23	47:D5:156:LYS:N	2.33	0.43
49:F5:37:ILE:HD12	49:F5:37:ILE:HA	1.59	0.43
1:13:108:G:P	1:13:326:G:H22	2.42	0.43
1:13:137:C:H2'	1:13:138:G:O4'	2.19	0.43
1:13:153:C:N4	1:13:168:G:H22	2.16	0.43
1:13:163:C:OP2	1:13:163:C:H6	2.02	0.43
1:13:192:U:H2'	1:13:193:C:H6	1.83	0.43
1:13:643:C:H2'	1:13:644:G:C8	2.53	0.43
1:13:687:A:C6	1:13:704:A:N7	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:927:G:H2'	1:13:928:G:O4'	2.19	0.43
1:13:1226:C:H4'	19:AI:80:TYR:CZ	2.52	0.43
1:13:1417:G:C6	1:13:1482:G:C6	3.07	0.43
1:13:1512:U:H2'	1:13:1513:A:C8	2.54	0.43
3:2E:60:ALA:H	3:2E:63:ASN:HB3	1.84	0.43
4:3E:107:ARG:NH1	4:3E:114:ARG:HH22	2.17	0.43
4:3E:172:PRO:HB2	4:3E:187:ARG:NH1	2.32	0.43
4:3E:201:GLN:O	4:3E:205:GLU:HG3	2.19	0.43
7:6E:28:ASN:O	7:6E:31:MET:HB3	2.18	0.43
8:7E:121:ASP:OD2	8:7E:125:ARG:NH2	2.51	0.43
11:2I:122:LYS:H	11:2I:122:LYS:HG3	1.60	0.43
13:4I:27:LYS:HD3	13:4I:31:LYS:HZ3	1.83	0.43
14:5I:48:ALA:HA	14:5I:53:LEU:HB2	1.99	0.43
16:7I:21:VAL:HG21	16:7I:34:GLU:HG2	2.01	0.43
22:1K:22:G:H2'	22:1K:22:G:N3	2.33	0.43
24:3K:34:U:O2	24:3K:35:U:H5'	2.19	0.43
26:1H:51:G:N3	26:1H:119:A:C2	2.87	0.43
26:1H:65:C:O2'	26:1H:456:C:O2	2.33	0.43
26:1H:127:A:H5''	26:1H:128:C:C6	2.54	0.43
26:1H:375:C:H2'	26:1H:376:C:C6	2.54	0.43
26:1H:511:U:H5''	26:1H:512:G:OP2	2.19	0.43
26:1H:533:G:N2	42:C8:45:TYR:CE2	2.86	0.43
26:1H:817:C:O2'	26:1H:839:U:H5''	2.18	0.43
26:1H:991:C:H2'	26:1H:992:C:H6	1.84	0.43
26:1H:1138:G:N2	35:58:106:MET:HE3	2.21	0.43
26:1H:1339:G:N2	26:1H:1603:A:H1'	2.33	0.43
26:1H:1523:U:H2'	26:1H:1524:G:O4'	2.19	0.43
26:1H:1686:C:H2'	26:1H:1687:G:O4'	2.19	0.43
26:1H:1779:U:OP2	26:1H:1784:A:N6	2.46	0.43
26:1H:1931:U:O2	26:1H:1931:U:O4'	2.36	0.43
26:1H:2227:A:C6	26:1H:2228:G:C5	3.06	0.43
26:1H:2294:C:H5''	40:A8:13:ARG:HH12	1.83	0.43
26:1H:2547:U:H2'	26:1H:2548:G:C8	2.54	0.43
26:1H:2812:G:C2	26:1H:2813:A:C4	3.06	0.43
26:1H:2848:G:C8	41:B8:97:ALA:HB2	2.54	0.43
28:7I:163:PHE:HE2	28:7I:199:HIS:CE1	2.36	0.43
29:11:79:VAL:O	29:11:113:VAL:HG23	2.18	0.43
29:11:93:ALA:HB3	29:11:105:ILE:HG22	2.00	0.43
32:41:32:PRO:HB2	32:41:172:LEU:HD22	2.01	0.43
32:41:35:GLU:HG3	32:41:36:LYS:CB	2.44	0.43
37:78:63:PRO:CB	55:Q8:30:ARG:HH21	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:A8:71:ARG:HE	40:A8:106:ARG:HH22	1.65	0.43
41:B8:3:ARG:C	41:B8:5:ALA:N	2.77	0.43
42:C8:57:PHE:O	42:C8:60:LEU:N	2.51	0.43
45:F8:10:ALA:HB1	45:F8:11:PRO:HD2	2.00	0.43
47:H8:94:GLU:O	47:H8:130:PRO:HD3	2.18	0.43
50:K8:33:MET:HG2	50:K8:37:PHE:HE1	1.84	0.43
1:1G:17:U:C4	1:1G:18:C:N4	2.87	0.43
1:1G:615:C:H2'	1:1G:616:G:H8	1.83	0.43
1:1G:788:U:H2'	1:1G:789:U:O4'	2.18	0.43
1:1G:1088:G:C6	1:1G:1089:G:C5	3.06	0.43
1:1G:1126:U:H5'	1:1G:1127:G:N7	2.33	0.43
1:1G:1267:C:O2	1:1G:1267:C:H2'	2.18	0.43
1:1G:1297:C:H4'	1:1G:1298:C:H5'	2.01	0.43
1:1G:1372:U:C4	1:1G:1373:G:C4	3.07	0.43
2:12:105:PHE:HA	2:12:108:ILE:HG22	2.01	0.43
4:32:173:TRP:CB	4:32:187:ARG:HG2	2.49	0.43
5:42:79:GLU:HA	5:42:91:LEU:O	2.18	0.43
7:62:141:VAL:HA	7:62:142:GLU:CB	2.48	0.43
10:1A:63:PHE:CD1	14:5A:56:VAL:HG13	2.53	0.43
13:4A:44:ARG:CB	13:4A:46:LYS:HG2	2.45	0.43
26:14:76:C:O3'	50:G5:59:ARG:HG3	2.18	0.43
26:14:900:A:C2'	26:14:901:A:H8	2.20	0.43
26:14:1287:A:C5	26:14:1288:U:C4	3.06	0.43
26:14:1964:G:H4'	26:14:1965:C:OP2	2.17	0.43
26:14:2459:A:C4	26:14:2460:U:C5	3.06	0.43
26:14:2611:U:H3'	26:14:2611:U:OP2	2.19	0.43
26:14:2687:U:O5'	26:14:2687:U:H6	2.02	0.43
26:14:2836:U:C4	26:14:2883:A:N6	2.86	0.43
27:1J:29:A:OP1	40:65:31:SER:HA	2.19	0.43
30:29:96:PHE:O	30:29:175:VAL:HG11	2.19	0.43
30:29:173:VAL:N	30:29:183:LEU:O	2.27	0.43
31:39:53:THR:CG2	31:39:55:GLY:H	2.15	0.43
31:39:116:ASP:O	31:39:120:GLU:HG2	2.18	0.43
31:39:165:ARG:HG2	31:39:168:ARG:NH1	2.33	0.43
33:59:152:ARG:HG3	33:59:153:LYS:HG3	1.99	0.43
37:35:59:LEU:HD21	55:M5:10:ALA:HA	2.00	0.43
37:35:138:LEU:C	37:35:138:LEU:CD1	2.91	0.43
41:75:30:VAL:HG12	41:75:86:ILE:HD12	2.01	0.43
46:C5:61:ILE:HG22	46:C5:62:GLU:N	2.33	0.43
47:D5:44:PHE:HE1	47:D5:48:PHE:CD2	2.37	0.43
48:E5:63:VAL:HG12	48:E5:64:ASP:N	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:183:G:H2'	1:13:184:G:C8	2.54	0.43
1:13:263:A:OP2	20:BI:79:ARG:NH1	2.50	0.43
1:13:565:U:H3'	1:13:566:G:H2'	2.01	0.43
1:13:736:C:OP1	18:9I:72:ARG:NE	2.52	0.43
1:13:818:G:C2	1:13:820:U:O2'	2.67	0.43
1:13:1202:G:C2	14:5I:42:ILE:HG21	2.54	0.43
1:13:1285:A:H8	1:13:1285:A:P	2.41	0.43
1:13:1511:G:H2'	1:13:1512:U:O4'	2.18	0.43
2:1E:185:ILE:CD1	2:1E:199:TYR:HD2	2.31	0.43
3:2E:26:LYS:H	3:2E:26:LYS:HG3	1.62	0.43
7:6E:111:ARG:H	7:6E:111:ARG:HG3	1.57	0.43
10:1I:48:THR:HG1	10:1I:62:HIS:CE1	2.36	0.43
15:6I:32:LEU:HD11	15:6I:62:GLN:HG3	2.00	0.43
18:9I:38:GLU:HA	18:9I:41:LYS:HZ2	1.84	0.43
26:1H:36:G:C5	26:1H:37:C:C5	3.07	0.43
26:1H:394:A:C6	26:1H:395:U:N3	2.86	0.43
26:1H:662:G:OP1	37:78:15:ARG:HB3	2.18	0.43
26:1H:924:C:C4	26:1H:925:C:C4	3.07	0.43
26:1H:943:U:OP2	37:78:36:LYS:CG	2.66	0.43
26:1H:968:G:C6	26:1H:969:U:C4	3.07	0.43
26:1H:1168:G:C2	26:1H:1182:A:C2	3.07	0.43
26:1H:1463:C:C4	26:1H:1464:C:C5	3.06	0.43
26:1H:1537:C:H2'	26:1H:1538:G:H4'	2.01	0.43
26:1H:1690:A:H3'	26:1H:1691:C:H6	1.83	0.43
26:1H:1889:A:H2'	26:1H:1890:A:O4'	2.18	0.43
26:1H:2081:C:C5	26:1H:2237:G:N2	2.87	0.43
26:1H:2310:A:H3'	26:1H:2310:A:N3	2.34	0.43
26:1H:2428:G:N2	37:78:61:ARG:HH22	2.16	0.43
26:1H:2663:G:H2'	26:1H:2664:G:O4'	2.18	0.43
26:1H:2888:C:O2'	26:1H:2889:C:H5'	2.18	0.43
27:16:52:A:C6	40:A8:33:LYS:HD2	2.53	0.43
27:16:75:G:H21	47:H8:85:HIS:HE1	1.65	0.43
28:71:5:LYS:HB3	28:71:8:ARG:NH1	2.33	0.43
29:11:68:LYS:HB3	29:11:70:TRP:CH2	2.53	0.43
30:21:26:ILE:CD1	30:21:196:VAL:HG21	2.49	0.43
32:41:111:LEU:HA	32:41:114:ILE:HD12	1.99	0.43
33:51:135:GLY:HA3	33:51:141:VAL:HG22	2.00	0.43
35:58:16:ILE:HB	35:58:54:VAL:HG22	2.01	0.43
40:A8:24:LEU:HD12	40:A8:41:ASP:HB2	1.99	0.43
43:D8:89:GLN:HG3	43:D8:90:PRO:HD2	2.01	0.43
1:1G:376:G:H5''	16:7A:5:ARG:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:570:G:C4	1:1G:571:U:C5	3.07	0.43
1:1G:872:A:O2'	1:1G:873:A:H5''	2.18	0.43
1:1G:963:G:H21	10:1A:55:LYS:CE	2.30	0.43
1:1G:991:U:H5	1:1G:1212:U:H1'	1.84	0.43
1:1G:1084:G:C8	1:1G:1085:U:C6	3.06	0.43
1:1G:1178:G:N3	1:1G:1180:A:C8	2.86	0.43
1:1G:1179:A:H2'	1:1G:1180:A:O4'	2.18	0.43
1:1G:1305:G:H5''	21:1B:4:GLY:HA3	1.99	0.43
1:1G:1354:C:H2'	1:1G:1355:G:H8	1.82	0.43
2:12:82:ARG:HH22	2:12:150:SER:CB	2.32	0.43
2:12:219:VAL:O	2:12:222:ILE:HG22	2.19	0.43
3:22:71:ALA:O	3:22:73:PRO:HD3	2.19	0.43
4:32:189:PRO:HB2	4:32:194:LEU:CD2	2.48	0.43
5:42:8:GLU:HB3	5:42:34:VAL:HG23	2.00	0.43
6:52:68:PRO:HG2	6:52:71:ARG:HB2	2.01	0.43
7:62:141:VAL:C	7:62:143:ARG:H	2.26	0.43
9:82:54:ASP:OD1	9:82:54:ASP:N	2.52	0.43
11:2A:57:THR:HG22	11:2A:59:TYR:H	1.82	0.43
20:BA:86:ARG:HB2	20:BA:86:ARG:CZ	2.49	0.43
26:14:34:C:H1'	26:14:35:G:P	2.58	0.43
26:14:234:C:C2	26:14:235:U:C5	3.07	0.43
26:14:335:C:H2'	26:14:336:C:H6	1.82	0.43
26:14:774:A:HO2'	26:14:775:G:P	2.42	0.43
26:14:1431:U:H2'	26:14:1432:C:H6	1.84	0.43
26:14:1487:G:C4	26:14:1488:G:C8	3.06	0.43
26:14:1503:U:H2'	26:14:1504:C:C6	2.53	0.43
26:14:1652:A:OP1	39:55:8:ARG:NH1	2.51	0.43
26:14:2263:C:O2'	26:14:2264:C:H5'	2.18	0.43
26:14:2674:G:H2'	26:14:2675:A:C8	2.54	0.43
26:14:2862:G:H2'	26:14:2863:C:C6	2.52	0.43
27:1J:42:C:H4'	32:49:67:LYS:HG3	2.01	0.43
27:1J:57:A:N3	32:49:29:TRP:HB3	2.34	0.43
31:39:4:VAL:HG21	31:39:17:ARG:NH2	2.33	0.43
31:39:117:ARG:HB3	31:39:123:LEU:HD23	2.00	0.43
32:49:98:ARG:O	32:49:102:PHE:HB2	2.19	0.43
32:49:152:LEU:O	32:49:152:LEU:HD23	2.19	0.43
33:59:52:VAL:O	33:59:53:GLU:HB2	2.18	0.43
39:55:83:ILE:HD13	39:55:83:ILE:HG21	1.86	0.43
41:75:11:GLU:HB2	41:75:12:SER:OG	2.18	0.43
42:85:90:VAL:HG22	43:95:39:LEU:HD23	2.00	0.43
43:95:30:GLY:H	43:95:61:VAL:HB	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:D5:18:LEU:O	47:D5:21:ALA:HB3	2.19	0.43
55:M5:40:GLU:HA	55:M5:43:GLN:CB	2.47	0.43
1:13:1:U:N3	1:13:629:G:C2	2.87	0.43
1:13:109:A:C6	1:13:326:G:C5	3.06	0.43
1:13:232:G:C4	1:13:233:C:C5	3.06	0.43
1:13:282:A:N3	1:13:282:A:H2'	2.32	0.43
1:13:458:C:C4	1:13:475:G:N1	2.86	0.43
1:13:1077:G:N3	1:13:1081:G:C2	2.87	0.43
1:13:1097:C:O2'	1:13:1169:A:N3	2.39	0.43
1:13:1486:G:H2'	1:13:1487:G:O4'	2.18	0.43
2:1E:6:THR:HG22	2:1E:221:LEU:HD21	2.00	0.43
4:3E:155:LEU:O	4:3E:157:LEU:N	2.51	0.43
6:5E:37:VAL:HG22	6:5E:63:TYR:HD2	1.83	0.43
8:7E:1:MET:HG3	8:7E:2:LEU:N	2.32	0.43
9:8E:49:PRO:HA	9:8E:52:ALA:HB3	1.99	0.43
23:2K:13:C:H4'	26:1H:1924:C:O2'	2.18	0.43
26:1H:274:G:N3	26:1H:276:A:N1	2.66	0.43
26:1H:466:A:O4'	26:1H:683:C:H4'	2.18	0.43
26:1H:774:A:H2	26:1H:787:U:O2'	2.01	0.43
26:1H:918:A:O2'	27:16:96:G:N2	2.42	0.43
26:1H:1166:C:O2	26:1H:1184:G:N2	2.51	0.43
26:1H:1277:G:C2	26:1H:1294:U:O2	2.72	0.43
26:1H:1297:C:N3	26:1H:1298:C:C5	2.86	0.43
26:1H:1642:G:C2'	26:1H:1643:G:H5'	2.49	0.43
26:1H:1783:A:C2	26:1H:2587:A:C5	3.07	0.43
26:1H:2019:A:O4'	42:C8:34:LYS:HD2	2.18	0.43
26:1H:2461:C:H42	26:1H:2489:G:H1	1.65	0.43
26:1H:2675:A:H4'	36:68:29:ASN:ND2	2.34	0.43
26:1H:2740:A:C6	26:1H:2764:A:C8	3.06	0.43
26:1H:2843:G:H1	26:1H:2874:C:H42	1.65	0.43
30:21:119:ARG:HB3	30:21:120:TRP:CD1	2.54	0.43
32:41:125:PHE:HA	32:41:130:ASN:O	2.19	0.43
32:41:138:GLN:HE21	32:41:149:VAL:HG12	1.84	0.43
35:58:73:THR:HA	35:58:83:LYS:O	2.19	0.43
37:78:14:LYS:O	37:78:15:ARG:O	2.37	0.43
39:98:44:LEU:O	39:98:47:PHE:N	2.38	0.43
40:A8:67:ARG:HG2	40:A8:71:ARG:CZ	2.49	0.43
44:E8:38:TYR:OH	53:N8:47:PRO:HG2	2.19	0.43
47:H8:163:LEU:HD22	47:H8:165:VAL:H	1.83	0.43
52:M8:13:ARG:NH1	52:M8:22:ILE:O	2.52	0.43
1:1G:34:C:H2'	1:1G:35:G:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:186:C:H1'	20:BA:81:LYS:HE2	2.00	0.43
1:1G:397:A:H5'	1:1G:398:C:OP1	2.19	0.43
1:1G:889:A:H4'	1:1G:890:G:OP1	2.19	0.43
1:1G:981:U:H6	1:1G:981:U:O5'	2.01	0.43
1:1G:1007:C:H2'	1:1G:1008:C:C6	2.53	0.43
1:1G:1316:G:N2	1:1G:1318:A:C8	2.86	0.43
1:1G:1359:C:P	14:5A:22:THR:HG21	2.59	0.43
1:1G:1442:G:O2'	1:1G:1443:G:OP1	2.30	0.43
1:1G:1466:C:C2'	1:1G:1467:G:H5'	2.48	0.43
2:12:137:ARG:HG3	2:12:138:LEU:N	2.33	0.43
6:52:17:SER:O	6:52:21:LEU:HB2	2.19	0.43
7:62:106:GLN:HG2	7:62:106:GLN:H	1.61	0.43
12:3A:6:THR:HG23	12:3A:6:THR:H	1.56	0.43
12:3A:81:SER:HB2	12:3A:106:ASP:OD2	2.18	0.43
20:BA:50:GLU:HA	20:BA:100:ILE:HG21	1.99	0.43
26:14:99:U:C2	26:14:102:G:N2	2.87	0.43
26:14:117:G:C6	26:14:119:A:C6	3.07	0.43
26:14:125:G:H1'	54:L5:13:ALA:HB1	2.01	0.43
26:14:191:A:C2	26:14:192:C:C2	3.07	0.43
26:14:263:C:C4	26:14:264:C:C5	3.07	0.43
26:14:582:G:H2'	26:14:583:G:H8	1.84	0.43
26:14:735:A:H3'	26:14:736:C:H6	1.84	0.43
26:14:776:G:C8	26:14:793:A:C2	3.07	0.43
26:14:1416:G:H2'	26:14:1417:C:C6	2.54	0.43
26:14:2119:A:C4	26:14:2171:A:C2	3.06	0.43
26:14:2295:C:H41	40:65:13:ARG:HH21	1.66	0.43
26:14:2439:A:C8	26:14:2439:A:C5'	3.02	0.43
26:14:2462:U:H2'	26:14:2463:C:C6	2.54	0.43
26:14:2488:A:O5'	26:14:2488:A:C8	2.66	0.43
26:14:2542:A:C8	26:14:2544:G:O6	2.72	0.43
26:14:2579:C:O2'	30:29:134:ILE:HD11	2.18	0.43
27:1J:99:A:C6	27:1J:100:G:C5	3.07	0.43
34:69:49:ALA:HA	34:69:52:ARG:HH11	1.84	0.43
36:25:22:ILE:HG23	36:25:22:ILE:HD12	1.60	0.43
38:45:39:PRO:HA	38:45:97:VAL:O	2.19	0.43
41:75:3:ARG:NE	41:75:5:ALA:HB3	2.33	0.43
43:95:60:GLU:HG2	43:95:61:VAL:N	2.33	0.43
45:B5:52:VAL:HG12	45:B5:82:GLN:HG3	2.00	0.43
46:C5:73:ARG:HH22	46:C5:83:THR:HA	1.82	0.43
48:E5:43:THR:O	48:E5:45:PHE:N	2.52	0.43
51:H5:8:LEU:HB2	51:H5:28:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:J5:33:CYS:SG	53:J5:46:CYS:HB2	2.59	0.43
54:L5:34:ARG:HG2	54:L5:39:ARG:HG3	2.00	0.43
1:13:147:G:N1	1:13:148:G:N3	2.67	0.43
1:13:171:A:H2'	1:13:172:A:C8	2.53	0.43
1:13:193:C:H4'	20:BI:61:SER:HB2	2.01	0.43
1:13:464:G:O6	1:13:466:C:H4'	2.18	0.43
1:13:1172:C:O2'	1:13:1173:G:H5'	2.19	0.43
2:1E:27:LYS:NZ	2:1E:193:ASP:OD2	2.52	0.43
4:3E:98:GLU:HG3	4:3E:103:ASN:ND2	2.34	0.43
4:3E:138:TYR:CD1	4:3E:138:TYR:C	2.95	0.43
8:7E:87:SER:OG	8:7E:92:ARG:HA	2.19	0.43
9:8E:86:VAL:HG12	9:8E:86:VAL:O	2.19	0.43
12:3I:117:ARG:C	12:3I:119:LYS:O	2.62	0.43
13:4I:13:LYS:HB3	13:4I:14:ARG:H	1.71	0.43
18:9I:43:PHE:C	18:9I:51:LEU:HD12	2.44	0.43
20:BI:26:ASN:HA	20:BI:29:LYS:HB2	2.01	0.43
21:1F:5:ASP:O	21:1F:8:THR:HG22	2.19	0.43
26:1H:36:G:N1	26:1H:445:C:C4	2.87	0.43
26:1H:37:C:H2'	26:1H:38:A:C8	2.54	0.43
26:1H:146:G:C6	26:1H:147:U:C4	3.06	0.43
26:1H:270(I):G:H1	26:1H:270(Q):C:H42	1.67	0.43
26:1H:624:C:O5'	26:1H:624:C:H6	2.02	0.43
26:1H:689:A:N3	26:1H:779:U:O2'	2.50	0.43
26:1H:1332:G:H5'	26:1H:1332:G:C8	2.53	0.43
26:1H:1423:G:H2'	26:1H:1424:G:H8	1.83	0.43
26:1H:1884:A:H2'	26:1H:1885:A:O4'	2.18	0.43
26:1H:2588:G:OP1	61:1H:3562:HOH:O	2.21	0.43
26:1H:2683:C:C5	26:1H:2684:U:C5	3.07	0.43
26:1H:2822:G:O6	39:98:2:ARG:HG3	2.19	0.43
27:16:45:A:H5''	27:16:46:A:OP2	2.19	0.43
29:11:35:LYS:HD2	29:11:35:LYS:O	2.19	0.43
29:11:35:LYS:HB2	29:11:62:TYR:C	2.43	0.43
30:21:24:THR:O	30:21:184:VAL:HG22	2.19	0.43
31:31:24:LEU:HG	31:31:115:ALA:HB2	2.00	0.43
32:41:47:LYS:HB3	32:41:47:LYS:HE2	1.69	0.43
32:41:122:PRO:HG3	32:41:181:ARG:HB2	2.00	0.43
38:88:118:LEU:HA	38:88:118:LEU:HD23	1.61	0.43
38:88:133:ARG:HB3	38:88:134:ARG:H	1.54	0.43
43:D8:4:ILE:HD12	43:D8:40:LEU:HG	1.99	0.43
46:G8:5:MET:HE2	46:G8:5:MET:HB2	1.67	0.43
46:G8:104:GLY:H	46:G8:105:ALA:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:310:G:OP2	16:7A:27:LYS:HD3	2.19	0.43
1:1G:1011:G:N2	1:1G:1019:C:O2	2.51	0.43
1:1G:1104:G:C6	1:1G:1105:A:C5	3.07	0.43
2:12:17:PHE:HZ	2:12:42:ILE:C	2.27	0.43
3:22:20:SER:HB2	3:22:40:ARG:NH2	2.28	0.43
3:22:153:VAL:O	3:22:165:THR:HG23	2.19	0.43
5:42:12:LEU:HD11	5:42:14:ARG:HG2	2.01	0.43
6:52:91:VAL:HG12	6:52:92:LYS:O	2.19	0.43
7:62:45:ASP:HB3	7:62:117:ALA:HB1	2.00	0.43
9:82:10:ARG:HH11	9:82:10:ARG:HG3	1.82	0.43
11:2A:59:TYR:O	11:2A:63:LEU:HD23	2.19	0.43
23:2L:41:C:H2'	23:2L:42:C:C6	2.53	0.43
26:14:10:G:C2	26:14:2629:A:N7	2.86	0.43
26:14:21:A:C2	26:14:520:G:C2	3.06	0.43
26:14:57:C:H2'	26:14:58:G:O4'	2.19	0.43
26:14:128:C:H6	26:14:128:C:H5''	1.83	0.43
26:14:493:G:H2'	26:14:494:G:O4'	2.19	0.43
26:14:635:C:H2'	26:14:636:G:O4'	2.19	0.43
26:14:943:U:P	37:35:36:LYS:HG3	2.59	0.43
26:14:1011:G:C2	26:14:1151:G:C2	3.06	0.43
26:14:1152:C:H4'	42:85:77:SER:HA	2.01	0.43
26:14:1279:G:C4'	39:55:31:HIS:CD2	3.02	0.43
26:14:1826:G:H4'	29:19:242:ARG:NH2	2.34	0.43
26:14:2136:C:C2	26:14:2137:C:C4	3.07	0.43
26:14:2233:U:H2'	26:14:2234:G:C8	2.54	0.43
26:14:2244:U:O5'	26:14:2244:U:H6	2.02	0.43
26:14:2571:C:C4	26:14:2574:G:C8	3.07	0.43
26:14:2630:G:H3'	26:14:2631:G:C8	2.53	0.43
26:14:2647:U:H2'	26:14:2648:C:C6	2.53	0.43
30:29:25:VAL:CG1	30:29:26:ILE:N	2.72	0.43
31:39:32:LEU:HD23	31:39:32:LEU:O	2.19	0.43
32:49:67:LYS:HD2	32:49:68:PRO:HD2	2.00	0.43
32:49:98:ARG:HA	32:49:101:ILE:HG22	2.00	0.43
36:25:59:LYS:C	36:25:87:ILE:HG22	2.43	0.43
36:25:98:VAL:HG12	36:25:117:LEU:HG	1.99	0.43
40:65:59:LYS:HD2	40:65:59:LYS:HA	1.84	0.43
48:E5:47:PRO:HB3	48:E5:51:VAL:O	2.19	0.43
1:13:64:G:H3'	1:13:65:U:C5'	2.49	0.43
1:13:439:A:H8	1:13:439:A:H5''	1.83	0.43
1:13:479:C:C4	1:13:480:U:C4	3.07	0.43
1:13:953:G:H2'	1:13:954:G:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1136:U:H2'	1:13:1138:G:O6	2.18	0.43
1:13:1164:G:C6	1:13:1165:C:C4	3.07	0.43
2:1E:28:PHE:CD2	2:1E:190:THR:HG22	2.54	0.43
2:1E:91:PRO:HG3	2:1E:154:LEU:HB2	2.00	0.43
4:3E:19:LEU:HD23	4:3E:21:LEU:HD21	2.01	0.43
4:3E:165:MET:SD	4:3E:168:ARG:HD3	2.59	0.43
12:3I:58:VAL:O	12:3I:65:GLU:HA	2.19	0.43
12:3I:62:SER:HB2	12:3I:64:TYR:CD1	2.54	0.43
15:6I:5:LYS:O	15:6I:8:LYS:HG2	2.19	0.43
16:7I:69:THR:O	16:7I:69:THR:OG1	2.34	0.43
22:1K:34:U8U:O5'	22:1K:34:U8U:H6	2.18	0.43
24:3K:17:U:O4	24:3K:19:G:C4	2.72	0.43
26:1H:136:G:H2'	26:1H:137:C:C6	2.54	0.43
26:1H:302:C:OP1	46:G8:81:LYS:HG2	2.19	0.43
26:1H:469:G:O6	54:P8:37:LYS:HE2	2.19	0.43
26:1H:861:A:C2	26:1H:917:A:C5	3.07	0.43
26:1H:1045:A:O2'	26:1H:1047:G:C5	2.68	0.43
26:1H:1394:U:H3'	26:1H:1394:U:H6	1.84	0.43
26:1H:1525:G:C2	26:1H:1526:G:C4	3.07	0.43
26:1H:2031:A:C6	26:1H:2498:C:H1'	2.54	0.43
26:1H:2227:A:C5	26:1H:2228:G:C5	3.06	0.43
26:1H:2887:U:H2'	26:1H:2888:C:C6	2.54	0.43
27:16:10:C:H2'	27:16:11:C:C6	2.54	0.43
28:71:37:PHE:CG	28:71:38:ASP:N	2.87	0.43
32:41:91:ARG:HD2	32:41:91:ARG:C	2.44	0.43
39:98:30:THR:HG22	39:98:31:HIS:ND1	2.33	0.43
40:A8:29:PHE:O	40:A8:36:TYR:HD1	2.02	0.43
41:B8:19:LEU:HD22	41:B8:86:ILE:HG22	2.00	0.43
41:B8:24:PRO:HD3	41:B8:52:ILE:CD1	2.44	0.43
43:D8:14:VAL:HB	43:D8:96:ILE:HG13	2.00	0.43
47:H8:33:LEU:HD12	47:H8:33:LEU:HA	1.89	0.43
1:1G:37:U:H2'	1:1G:38:G:C8	2.45	0.43
1:1G:825:G:H2'	1:1G:826:C:O4'	2.18	0.43
1:1G:1205:U:O2'	3:22:195:VAL:HG22	2.19	0.43
1:1G:1230:C:H5'	23:2L:31:G:H5''	2.01	0.43
1:1G:1300:G:C5	1:1G:1334:G:C6	3.07	0.43
1:1G:1333:A:H2'	1:1G:1334:G:O4'	2.18	0.43
1:1G:1347:G:N2	1:1G:1373:G:C8	2.87	0.43
1:1G:1453:G:H1	20:BA:54:LYS:NZ	2.17	0.43
1:1G:1455:G:H5'	20:BA:32:ALA:HB2	1.99	0.43
2:12:72:GLY:HA3	2:12:81:VAL:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:95:GLN:HB3	2:12:148:TYR:HD1	1.84	0.43
9:82:36:TYR:HD2	9:82:37:PHE:CE1	2.37	0.43
14:5A:17:LYS:HD2	14:5A:18:VAL:N	2.33	0.43
17:8A:6:LEU:HD23	17:8A:6:LEU:HA	1.71	0.43
57:3L:30:G:C5	57:3L:31:A:N7	2.87	0.43
26:14:414:C:H4'	26:14:1879:C:O2	2.18	0.43
26:14:459:U:H4'	54:L5:40:TRP:CH2	2.54	0.43
26:14:480:A:OP2	46:C5:46:LYS:HE3	2.19	0.43
26:14:534:U:H5'	42:85:42:ALA:HB1	2.00	0.43
26:14:606:U:H4'	26:14:658:C:H4'	2.00	0.43
26:14:907:U:C2'	26:14:908:C:H5'	2.49	0.43
26:14:973:A:O4'	26:14:1188:U:C6	2.72	0.43
26:14:1222:C:O5'	26:14:1222:C:H6	2.01	0.43
26:14:1540:G:H2'	26:14:1541:U:C6	2.53	0.43
26:14:1819:A:H4'	26:14:1820:U:O5'	2.18	0.43
26:14:1820:U:H4'	26:14:1821:A:OP2	2.19	0.43
26:14:1849:G:H2'	26:14:1850:G:C8	2.54	0.43
26:14:1953:A:N1	26:14:2549:G:O2'	2.45	0.43
26:14:2075:U:OP2	29:19:244:ARG:NH2	2.51	0.43
26:14:2276:G:C2	26:14:2277:G:C8	3.07	0.43
26:14:2331:G:O2'	48:E5:43:THR:HG22	2.19	0.43
27:1J:12:C:OP2	27:1J:12:C:C6	2.71	0.43
31:39:7:TYR:CD1	31:39:18:ARG:HD3	2.53	0.43
32:49:120:LEU:HB2	32:49:179:PRO:O	2.19	0.43
39:55:10:LEU:O	39:55:12:ARG:NH1	2.52	0.43
39:55:55:ALA:HB2	39:55:79:LEU:CD1	2.49	0.43
43:95:49:THR:OG1	43:95:50:PRO:HD2	2.19	0.43
46:C5:52:SER:HA	46:C5:55:TYR:O	2.19	0.43
46:C5:82:PRO:CG	46:C5:97:ARG:HB3	2.48	0.43
53:J5:11:THR:HG23	53:J5:15:ARG:HB3	2.00	0.43
53:J5:37:LYS:HD3	53:J5:38:ALA:HA	2.00	0.43
54:L5:13:ALA:O	54:L5:17:GLY:HA3	2.19	0.43
55:M5:36:LYS:HB2	55:M5:41:ILE:HD11	2.00	0.43
1:13:57:G:H2'	1:13:58:C:H6	1.81	0.42
1:13:162:A:H2	1:13:348:G:H4'	1.84	0.42
1:13:170:U:O2'	1:13:171:A:H5'	2.19	0.42
1:13:247:G:C4	1:13:248:C:H5	2.37	0.42
1:13:403:C:O3'	4:3E:122:ARG:HD3	2.18	0.42
1:13:1037:C:O2'	1:13:1038:C:O4'	2.37	0.42
1:13:1072:G:C5	1:13:1073:U:C4	3.06	0.42
2:1E:28:PHE:CE1	2:1E:194:PRO:HD3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2E:18:TRP:HB3	3:2E:20:SER:O	2.19	0.42
4:3E:77:ASN:HA	4:3E:80:GLU:OE2	2.18	0.42
4:3E:94:LEU:HD23	4:3E:94:LEU:HA	1.77	0.42
4:3E:161:ASN:O	4:3E:165:MET:HB2	2.18	0.42
5:4E:10:MET:HB2	5:4E:10:MET:HE2	1.43	0.42
6:5E:75:LEU:CD2	6:5E:79:LEU:HG	2.48	0.42
7:6E:78:ARG:O	7:6E:85:TYR:N	2.42	0.42
8:7E:36:LEU:HA	8:7E:39:LEU:HB2	2.01	0.42
9:8E:10:ARG:HD3	9:8E:11:LYS:N	2.34	0.42
9:8E:29:ASN:OD1	9:8E:64:THR:HA	2.19	0.42
10:1I:47:PHE:CZ	14:5I:37:PHE:CE1	3.06	0.42
15:6I:11:VAL:O	15:6I:15:PHE:HD2	2.02	0.42
19:AI:15:LEU:HD23	19:AI:15:LEU:H	1.84	0.42
23:2K:47:G7M:O2'	23:2K:48:U:C6	2.72	0.42
24:3K:24:G:C6	24:3K:25:C:C4	3.06	0.42
26:1H:242:G:C5'	55:Q8:64:TYR:CZ	3.02	0.42
26:1H:270(N):G:H21	34:61:50:ARG:NH2	2.17	0.42
26:1H:557:U:H2'	26:1H:558:G:H8	1.84	0.42
26:1H:782:A:N7	29:11:221:VAL:HG11	2.34	0.42
26:1H:901:A:N3	26:1H:901:A:H2'	2.33	0.42
26:1H:1026:U:O2'	26:1H:1027:A:C5'	2.67	0.42
26:1H:1443:G:O5'	26:1H:1443:G:C8	2.72	0.42
26:1H:1550:C:C5	26:1H:1551:C:H5	2.37	0.42
26:1H:1675:C:H2'	26:1H:1676:A:O4'	2.18	0.42
26:1H:1680:U:H2'	26:1H:1681:G:O4'	2.19	0.42
26:1H:2129:C:C4	26:1H:2130:U:C2	3.07	0.42
26:1H:2227:A:H5''	29:11:263:ARG:HB3	2.01	0.42
27:16:42:C:O2	32:41:92:VAL:HA	2.19	0.42
29:11:29:PRO:O	29:11:30:GLU:CG	2.64	0.42
29:11:48:ARG:O	29:11:50:THR:HG23	2.19	0.42
29:11:70:TRP:O	29:11:73:VAL:HG23	2.19	0.42
30:21:69:LYS:HG2	30:21:89:ASP:OD1	2.19	0.42
34:61:78:THR:HG22	34:61:141:LYS:HG3	2.00	0.42
35:58:86:PRO:HG2	35:58:89:LYS:HB2	2.00	0.42
38:88:31:ASP:O	38:88:133:ARG:O	2.37	0.42
38:88:34:LEU:HA	38:88:34:LEU:HD12	1.79	0.42
40:A8:106:ARG:HD2	40:A8:107:GLU:N	2.34	0.42
42:C8:90:VAL:HG12	42:C8:91:ASP:HA	2.01	0.42
46:G8:80:GLY:C	46:G8:81:LYS:O	2.61	0.42
49:J8:53:VAL:HG22	49:J8:74:VAL:HG23	2.01	0.42
50:K8:5:GLU:O	50:K8:9:GLN:N	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:K8:55:ARG:O	50:K8:58:ALA:HB3	2.18	0.42
1:1G:489:C:H2'	1:1G:490:G:C8	2.54	0.42
1:1G:922:G:N2	1:1G:1398:A:H2	2.17	0.42
1:1G:1301:U:O2	1:1G:1301:U:H2'	2.19	0.42
1:1G:1402:C:H2'	1:1G:1403:C:O4'	2.19	0.42
1:1G:1493:A:H2'	26:14:1913:A:N6	2.31	0.42
2:12:127:ILE:CG2	2:12:135:GLN:HE22	2.30	0.42
4:32:111:ALA:HB3	4:32:117:ALA:HB2	2.01	0.42
5:42:70:PRO:HB3	5:42:144:THR:HG22	2.01	0.42
5:42:93:PRO:HG2	8:72:105:ARG:NE	2.33	0.42
8:72:93:VAL:O	8:72:132:GLU:HA	2.19	0.42
20:BA:50:GLU:HA	20:BA:100:ILE:CG2	2.48	0.42
26:14:86:C:H2'	26:14:87:C:H6	1.84	0.42
26:14:136:G:H5''	26:14:137:C:OP2	2.19	0.42
26:14:569:U:C4	26:14:570:G:C6	3.06	0.42
26:14:778:G:C5	26:14:779:U:C4	3.07	0.42
26:14:852:G:H2'	26:14:853:G:H8	1.84	0.42
26:14:1475:G:C2	26:14:1519:G:N3	2.87	0.42
26:14:1547:C:O2	26:14:1547:C:H2'	2.19	0.42
26:14:1805:U:O2	29:19:50:THR:HB	2.19	0.42
26:14:1812:A:H2'	26:14:1813:G:C8	2.53	0.42
26:14:1817:G:H5''	29:19:88:ARG:NH2	2.34	0.42
26:14:1926:U:H2'	26:14:1928:A:OP2	2.19	0.42
26:14:2305:A:N9	32:49:136:ARG:HD3	2.33	0.42
26:14:2768:C:H4'	35:15:89:LYS:NZ	2.34	0.42
27:1J:2:C:H2'	27:1J:3:C:H5	1.82	0.42
29:19:118:VAL:HG22	29:19:119:ALA:H	1.84	0.42
29:19:248:SER:HG	29:19:252:TRP:CD1	2.36	0.42
30:29:27:LEU:HA	30:29:181:LEU:HD12	2.01	0.42
30:29:67:PHE:O	30:29:68:ALA:C	2.61	0.42
31:39:63:LYS:NZ	31:39:65:TRP:O	2.53	0.42
36:25:105:GLU:OE1	36:25:105:GLU:N	2.47	0.42
37:35:120:ALA:H	37:35:137:LYS:HZ2	1.67	0.42
38:45:98:LYS:HB3	38:45:99:PRO:HD2	2.00	0.42
40:65:23:ARG:NH2	40:65:84:GLN:OE1	2.40	0.42
42:85:92:ARG:HE	43:95:11:GLN:HG3	1.84	0.42
47:D5:11:GLU:CD	47:D5:12:GLY:H	2.27	0.42
1:13:429:U:H3'	4:3E:9:CYS:SG	2.59	0.42
1:13:558:G:H2'	1:13:559:A:C2	2.53	0.42
1:13:770:C:N4	61:13:1831:HOH:O	2.43	0.42
1:13:1074:G:O2'	1:13:1075:C:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1124:G:O2'	10:1I:38:ILE:HD12	2.19	0.42
1:13:1163:C:H2'	1:13:1164:G:C8	2.54	0.42
1:13:1336:C:H4'	1:13:1337:G:O5'	2.20	0.42
1:13:1346:A:C4	7:6E:10:ARG:NH2	2.81	0.42
1:13:1486:G:H2'	1:13:1487:G:C1'	2.49	0.42
6:5E:10:LEU:HD22	6:5E:61:LEU:HD11	2.01	0.42
10:1I:7:LYS:C	10:1I:8:LEU:HD23	2.44	0.42
10:1I:47:PHE:CZ	14:5I:37:PHE:HE1	2.36	0.42
12:3I:83:VAL:HG13	12:3I:100:ILE:HG23	2.00	0.42
20:BI:57:ARG:HH22	20:BI:100:ILE:HD13	1.84	0.42
22:1K:43:U:H2'	22:1K:44:U:C5	2.54	0.42
22:1K:50:C:C5	22:1K:51:A:H1'	2.53	0.42
24:3K:24:G:C6	24:3K:25:C:N4	2.87	0.42
24:3K:64:G:H2'	24:3K:65:C:O4'	2.19	0.42
26:1H:270(T):G:H2'	26:1H:270(U):C:C6	2.54	0.42
26:1H:545:G:H2'	26:1H:546:C:H5''	2.01	0.42
26:1H:646:A:C8	26:1H:647:G:H1'	2.53	0.42
26:1H:662:G:C5'	37:78:15:ARG:HA	2.49	0.42
26:1H:684:G:C2	26:1H:774:A:C2	3.07	0.42
26:1H:1287:A:C5	26:1H:1288:U:C4	3.06	0.42
26:1H:1397:U:H3'	26:1H:1398:C:C5	2.54	0.42
26:1H:2227:A:N6	26:1H:2228:G:C6	2.87	0.42
26:1H:2259:G:C2	26:1H:2282:G:C6	3.07	0.42
26:1H:2336:A:H61	48:I8:43:THR:HG21	1.84	0.42
26:1H:2820:A:HO2'	26:1H:2821:A:P	2.41	0.42
27:16:99:A:H3'	61:16:303:HOH:O	2.17	0.42
31:31:24:LEU:HD21	31:31:114:VAL:HG12	2.01	0.42
32:41:109:VAL:HG13	52:M8:33:VAL:CG2	2.49	0.42
34:61:21:VAL:HG21	34:61:25:TYR:CD2	2.53	0.42
35:58:82:LEU:HA	35:58:82:LEU:HD12	1.82	0.42
42:C8:30:LYS:HA	42:C8:30:LYS:HD3	1.84	0.42
42:C8:98:LEU:O	42:C8:100:VAL:N	2.52	0.42
43:D8:53:GLU:C	43:D8:55:ALA:H	2.27	0.42
45:F8:8:ILE:HD11	45:F8:43:VAL:CG2	2.49	0.42
52:M8:36:CYS:HB3	52:M8:39:CYS:CB	2.48	0.42
55:Q8:57:ARG:C	55:Q8:59:LYS:N	2.75	0.42
1:1G:197:A:C8	1:1G:198:G:C4	3.05	0.42
1:1G:362:G:O2'	1:1G:364:A:N7	2.46	0.42
1:1G:431:A:H5''	1:1G:432:A:OP2	2.19	0.42
1:1G:509:A:C8	1:1G:509:A:H3'	2.54	0.42
1:1G:1195:C:H2'	1:1G:1197:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1372:U:OP1	9:82:72:GLY:N	2.52	0.42
1:1G:1466:C:H2'	1:1G:1467:G:O4'	2.19	0.42
2:12:70:PHE:CE1	2:12:162:ILE:HG22	2.53	0.42
4:32:43:HIS:HA	4:32:46:LYS:HD2	2.01	0.42
8:72:36:LEU:HD11	8:72:59:LEU:HD13	2.00	0.42
8:72:81:HIS:HB3	8:72:138:TRP:CZ3	2.54	0.42
8:72:83:ILE:HD11	8:72:135:CYS:HB2	2.00	0.42
9:82:86:VAL:HG13	9:82:90:PRO:HA	2.00	0.42
13:4A:11:ARG:HG3	13:4A:12:ASN:HB2	2.01	0.42
16:7A:20:VAL:HG11	16:7A:32:TYR:CD2	2.54	0.42
56:1L:52:G:N2	56:1L:63:U:H3	2.17	0.42
23:2L:26:C:H2'	23:2L:27:G:O4'	2.19	0.42
57:3L:47:U:H5'	57:3L:48:C:OP1	2.19	0.42
26:14:341:G:H2'	26:14:342:G:O4'	2.18	0.42
26:14:559:G:H2'	26:14:560:C:O4'	2.18	0.42
26:14:1043:C:C2'	26:14:1044:G:H5'	2.48	0.42
26:14:1056:G:N2	26:14:1102:C:H41	2.16	0.42
26:14:1138:G:C5	26:14:1139:G:H1'	2.53	0.42
26:14:1183:G:O2'	51:H5:29:ARG:NH2	2.52	0.42
26:14:1340:U:C2	26:14:1603:A:O4'	2.72	0.42
26:14:1363:C:H2'	26:14:1364:G:C8	2.54	0.42
26:14:1519:G:C6	26:14:1520:U:N3	2.87	0.42
26:14:1832:C:N4	26:14:1833:U:C4	2.87	0.42
26:14:2196:C:O2'	26:14:2197:U:H5'	2.19	0.42
26:14:2303:G:C2'	26:14:2304:G:H5'	2.50	0.42
26:14:2416:C:N4	26:14:2417:C:N4	2.67	0.42
26:14:2854:G:C2	26:14:2864:G:C2	3.07	0.42
27:1J:77:U:H4'	47:D5:84:GLU:OE2	2.19	0.42
29:19:73:VAL:C	29:19:75:ILE:H	2.27	0.42
29:19:175:LEU:HA	29:19:175:LEU:HD23	1.66	0.42
29:19:218:ARG:HG2	29:19:219:PRO:HD2	2.01	0.42
34:69:78:THR:O	34:69:78:THR:HG22	2.19	0.42
35:15:47:ALA:HB2	35:15:112:LEU:HD21	2.00	0.42
37:35:139:LYS:HA	37:35:142:GLY:O	2.19	0.42
39:55:2:ARG:NH2	39:55:5:LYS:O	2.38	0.42
39:55:113:LEU:HD12	39:55:113:LEU:HA	1.79	0.42
42:85:5:LYS:O	42:85:6:THR:C	2.62	0.42
42:85:14:HIS:ND1	42:85:32:PHE:CD2	2.87	0.42
55:M5:34:TRP:HA	55:M5:34:TRP:CE3	2.53	0.42
1:13:66:G:O4'	1:13:173:U:C4	2.73	0.42
1:13:160:A:N1	1:13:343:U:H4'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:252:U:H5'	1:13:253:U:OP2	2.19	0.42
1:13:291:C:C2	1:13:310:G:C2	3.07	0.42
1:13:375:U:O3'	16:7I:6:LEU:HB2	2.19	0.42
1:13:953:G:N7	13:4I:104:ARG:NH2	2.67	0.42
1:13:963:G:N2	1:13:972:C:N3	2.53	0.42
1:13:1349:A:H3'	9:8E:118:LYS:HZ1	1.85	0.42
2:1E:180:LEU:HD23	2:1E:180:LEU:HA	1.57	0.42
2:1E:200:ILE:O	2:1E:201:ILE:HD13	2.20	0.42
2:1E:211:ILE:H	2:1E:211:ILE:HG13	1.61	0.42
3:2E:45:LYS:HB2	3:2E:46:GLU:OE2	2.19	0.42
4:3E:157:LEU:HD12	4:3E:161:ASN:ND2	2.26	0.42
9:8E:69:GLY:O	9:8E:70:LYS:C	2.63	0.42
10:1I:15:THR:O	10:1I:19:SER:N	2.32	0.42
11:2I:48:ILE:HD12	11:2I:48:ILE:HA	1.76	0.42
11:2I:59:TYR:O	11:2I:63:LEU:HD12	2.19	0.42
14:5I:47:LEU:HA	14:5I:47:LEU:HD23	1.68	0.42
16:7I:20:VAL:HG11	16:7I:32:TYR:HB3	2.02	0.42
20:BI:83:ARG:HB3	20:BI:87:LYS:HZ2	1.83	0.42
24:3K:19:G:H21	24:3K:57:G:H22	1.66	0.42
26:1H:48:G:C6	26:1H:178:G:O6	2.71	0.42
26:1H:270(P):C:O2	34:6I:50:ARG:NH2	2.50	0.42
26:1H:406:G:C6	26:1H:407:G:C5	3.07	0.42
26:1H:468:G:C6	26:1H:469:G:C4	3.07	0.42
26:1H:587:C:OP2	37:78:21:ARG:NH2	2.52	0.42
26:1H:1115:G:H2'	26:1H:1116:C:O4'	2.19	0.42
26:1H:1322:A:C2'	26:1H:1323:U:H5'	2.49	0.42
26:1H:1751:C:H2'	26:1H:1752:C:C6	2.54	0.42
26:1H:1843:C:H5'	29:11:253:GLN:OE1	2.19	0.42
26:1H:1899:G:N2	26:1H:1902:C:C5	2.87	0.42
26:1H:1925:C:O2'	26:1H:1926:U:H5'	2.19	0.42
26:1H:2056:G:C2	26:1H:2057:A:C8	3.06	0.42
26:1H:2250:G:C5	38:88:83:MET:HB3	2.53	0.42
26:1H:2427:C:OP1	26:1H:2428:G:OP1	2.37	0.42
28:7I:22:ILE:HD13	28:7I:189:ILE:CG2	2.41	0.42
31:3I:6:VAL:HG12	31:3I:7:TYR:N	2.33	0.42
37:78:45:LEU:HB3	37:78:46:LYS:H	1.58	0.42
39:98:41:ALA:O	39:98:43:GLU:N	2.53	0.42
40:A8:15:ARG:NE	40:A8:88:ASP:OD2	2.52	0.42
40:A8:41:ASP:OD2	40:A8:44:LYS:HB2	2.19	0.42
42:C8:11:ARG:O	42:C8:15:LYS:HG3	2.19	0.42
44:E8:11:ARG:O	44:E8:42:ARG:NH1	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:E8:13:SER:O	44:E8:14:PRO:C	2.63	0.42
46:G8:87:LYS:H	46:G8:94:LYS:HG2	1.84	0.42
46:G8:104:GLY:N	46:G8:105:ALA:HB3	2.34	0.42
47:H8:166:SER:HA	47:H8:167:PRO:HD3	1.87	0.42
51:L8:8:LEU:HA	51:L8:8:LEU:HD23	1.64	0.42
55:Q8:57:ARG:O	55:Q8:59:LYS:N	2.52	0.42
1:1G:75:C:H2'	1:1G:76:G:O4'	2.19	0.42
1:1G:408:A:H4'	4:32:112:VAL:HG11	2.00	0.42
1:1G:666:G:N2	1:1G:740:U:O2	2.50	0.42
1:1G:848:C:N4	1:1G:849:C:N4	2.68	0.42
1:1G:925:G:H1'	1:1G:1502:A:C8	2.54	0.42
1:1G:998:G:H22	1:1G:1043:C:H42	1.67	0.42
4:32:207:TYR:O	4:32:209:ARG:HG2	2.19	0.42
8:72:122:ARG:HB2	8:72:123:GLU:OE2	2.20	0.42
9:82:43:ALA:HA	9:82:74:ILE:HD13	2.00	0.42
10:1A:82:ILE:O	10:1A:85:LEU:HG	2.19	0.42
12:3A:58:VAL:N	12:3A:66:VAL:O	2.39	0.42
14:5A:21:TYR:HB2	61:5A:203:HOH:O	2.19	0.42
17:8A:63:ARG:HG2	17:8A:64:PRO:HD2	2.01	0.42
26:14:19:C:H2'	26:14:20:C:C6	2.53	0.42
26:14:780:G:C2	26:14:782:A:C2	3.07	0.42
26:14:869:G:N2	26:14:870:A:H1'	2.34	0.42
26:14:959:A:C6	26:14:960:A:N1	2.87	0.42
26:14:1006:C:C2	26:14:1138:G:N2	2.87	0.42
26:14:1029:A:H8	26:14:1029:A:O5'	2.03	0.42
26:14:1071:G:H21	26:14:1090:U:P	2.42	0.42
26:14:1416:G:N2	26:14:1582:C:O2	2.52	0.42
26:14:1428:C:O2'	26:14:1429:G:H5'	2.19	0.42
26:14:1945:G:C4	26:14:1946:U:C5	3.07	0.42
26:14:2230:G:H4'	49:F5:43:TYR:HB2	2.01	0.42
26:14:2323:G:H8	26:14:2323:G:O5'	2.02	0.42
26:14:2516:G:C5	26:14:2517:C:C4	3.07	0.42
26:14:2516:G:O6	26:14:2517:C:N4	2.53	0.42
26:14:2776:A:OP1	26:14:2776:A:H3'	2.19	0.42
26:14:2791:C:N4	26:14:2793:G:H22	2.17	0.42
26:14:2831:G:O2'	26:14:2883:A:H2'	2.18	0.42
29:19:31:LYS:HZ2	29:19:33:LEU:CB	2.32	0.42
29:19:242:ARG:HG3	29:19:246:PRO:HG3	2.01	0.42
33:59:167:GLU:OE1	33:59:169:VAL:HG22	2.20	0.42
35:15:23:LEU:HA	35:15:60:ILE:HD11	2.01	0.42
43:95:35:LEU:C	43:95:37:VAL:HG13	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:B5:43:VAL:O	45:B5:44:GLU:C	2.61	0.42
47:D5:7:ALA:O	47:D5:62:PRO:HD3	2.19	0.42
47:D5:48:PHE:CE2	47:D5:52:SER:HA	2.54	0.42
50:G5:31:GLU:O	50:G5:35:LEU:HD23	2.20	0.42
1:13:254:G:H2'	1:13:255:G:O4'	2.20	0.42
1:13:279:A:C5	17:8I:98:LEU:HD12	2.54	0.42
1:13:487:A:H2'	1:13:487:A:N3	2.34	0.42
1:13:607:A:H2'	1:13:608:A:C8	2.54	0.42
1:13:615:C:C2	1:13:616:G:C8	3.08	0.42
1:13:692:U:H1'	1:13:694:A:N7	2.34	0.42
1:13:965:A:C2	1:13:969:A:C2	3.07	0.42
1:13:1009:G:N2	1:13:1010:G:H1'	2.34	0.42
1:13:1216:G:H2'	1:13:1217:C:C6	2.53	0.42
1:13:1244:C:O5'	1:13:1244:C:H6	2.02	0.42
1:13:1345:U:C5	1:13:1377:A:C2	3.07	0.42
4:3E:173:TRP:CE3	4:3E:193:ASP:HB3	2.54	0.42
5:4E:10:MET:HB2	5:4E:32:VAL:HG22	2.01	0.42
5:4E:33:VAL:CG1	5:4E:112:LEU:HD12	2.50	0.42
5:4E:136:MET:O	5:4E:140:ARG:HD2	2.19	0.42
8:7E:7:ALA:O	8:7E:8:ASP:C	2.62	0.42
13:4I:15:VAL:HG22	13:4I:45:VAL:HB	2.01	0.42
18:9I:26:LEU:HD12	18:9I:29:PHE:CE2	2.54	0.42
20:BI:11:SER:HA	20:BI:13:LEU:HG	2.01	0.42
26:1H:11:G:C2'	26:1H:12:U:H5'	2.48	0.42
26:1H:1120:G:H2'	26:1H:1121:C:C6	2.54	0.42
26:1H:1163:G:C2	26:1H:1164:G:C8	3.07	0.42
26:1H:1211:U:H3'	26:1H:1212:G:C5'	2.50	0.42
26:1H:1639:U:H4'	26:1H:2699:C:H4'	2.01	0.42
26:1H:2093:G:C6	26:1H:2225:A:C8	3.08	0.42
26:1H:2133:G:H8	26:1H:2156:G:C5	2.37	0.42
26:1H:2392:A:H1'	37:78:61:ARG:HD2	2.01	0.42
27:16:110:G:C5	27:16:111:U:C5	3.08	0.42
29:11:98:VAL:C	29:11:100:GLY:H	2.26	0.42
29:11:201:HIS:O	29:11:204:ILE:HG12	2.18	0.42
31:31:155:LEU:HD13	31:31:185:ASP:HB3	2.02	0.42
35:58:130:HIS:C	35:58:134:ARG:HH12	2.27	0.42
40:A8:42:ASP:C	40:A8:44:LYS:H	2.27	0.42
43:D8:87:HIS:NE2	43:D8:89:GLN:OE1	2.52	0.42
44:E8:1:MET:SD	44:E8:62:HIS:HB3	2.59	0.42
45:F8:26:TYR:HB3	45:F8:92:LEU:HD12	2.00	0.42
50:K8:37:PHE:O	50:K8:41:ILE:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M8:22:ILE:O	52:M8:24:THR:HG23	2.19	0.42
1:1G:78:G:H2'	1:1G:79:G:O4'	2.19	0.42
1:1G:134:A:H1'	1:1G:325:A:C5	2.54	0.42
1:1G:578:C:C1'	1:1G:729:A:H1'	2.50	0.42
1:1G:673:G:H5''	6:52:87:ARG:CZ	2.49	0.42
1:1G:750:G:O3'	15:6A:18:PHE:HZ	2.02	0.42
1:1G:786:G:C2	1:1G:797:C:O2	2.72	0.42
1:1G:894:G:H2'	1:1G:895:G:O4'	2.20	0.42
1:1G:962:C:H2'	1:1G:963:G:O4'	2.19	0.42
1:1G:1157:A:N7	1:1G:1181:G:H1'	2.33	0.42
1:1G:1256:A:N6	1:1G:1277:C:H3'	2.34	0.42
2:12:98:LEU:HD23	2:12:98:LEU:HA	1.93	0.42
4:32:57:ARG:HH21	4:32:205:GLU:HG2	1.83	0.42
11:2A:67:ASP:O	11:2A:71:LYS:HG3	2.19	0.42
14:5A:25:VAL:O	14:5A:26:ARG:HG2	2.19	0.42
16:7A:23:ASP:OD1	16:7A:25:ARG:HG3	2.20	0.42
23:2L:52:C:H2'	23:2L:53:G:O4'	2.19	0.42
26:14:350:U:H2'	26:14:351:G:O4'	2.19	0.42
26:14:366:C:OP2	26:14:403:U:O2'	2.26	0.42
26:14:540:G:C6	26:14:541:C:C4	3.07	0.42
26:14:822:U:O2'	26:14:823:G:H5'	2.19	0.42
26:14:1025:G:H8	26:14:1025:G:OP1	2.02	0.42
26:14:1101:U:H2'	26:14:1102:C:H4'	2.00	0.42
26:14:1107:G:N2	26:14:1108:U:H1'	2.35	0.42
26:14:1278:A:H2'	26:14:1279:G:H8	1.82	0.42
26:14:1386:C:C2	26:14:1387:C:C5	3.07	0.42
26:14:1531:C:H2'	26:14:1532:C:C6	2.54	0.42
26:14:2228:G:C6	26:14:2229:C:N3	2.88	0.42
26:14:2789:C:H2'	26:14:2790:A:O4'	2.19	0.42
29:19:37:LEU:H	29:19:37:LEU:HG	1.13	0.42
29:19:94:LEU:HD23	29:19:94:LEU:HA	1.66	0.42
30:29:76:ARG:O	30:29:78:LEU:N	2.53	0.42
31:39:81:PRO:HB3	31:39:87:GLY:O	2.18	0.42
31:39:155:LEU:HD23	31:39:186:ILE:HD13	2.01	0.42
32:49:59:GLU:OE1	32:49:153:ARG:NH2	2.52	0.42
34:69:66:GLU:HA	34:69:69:LYS:HB3	2.02	0.42
34:69:127:VAL:HA	34:69:138:ILE:O	2.18	0.42
36:25:10:VAL:HG12	36:25:17:ARG:O	2.19	0.42
40:65:99:LYS:O	40:65:103:GLU:HG3	2.19	0.42
41:75:133:GLU:HB3	41:75:137:LYS:NZ	2.34	0.42
1:13:484:G:H5'	1:13:486:U:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:730:G:C6	1:13:731:G:H1'	2.54	0.42
1:13:976:G:N7	1:13:1358:U:C2	2.87	0.42
1:13:991:U:H4'	1:13:992:U:H5''	2.02	0.42
1:13:1269:A:C2	1:13:1313:U:O4'	2.72	0.42
6:5E:91:VAL:HG12	6:5E:92:LYS:O	2.18	0.42
7:6E:46:ALA:HB2	7:6E:117:ALA:HB1	2.01	0.42
15:6I:9:GLN:HA	15:6I:12:ILE:HD12	2.00	0.42
19:AI:41:VAL:HG12	19:AI:44:MET:CB	2.49	0.42
26:1H:241:A:H5'	26:1H:243:U:O4'	2.19	0.42
26:1H:495:G:H1'	44:E8:57:ASN:CG	2.44	0.42
26:1H:654:A:H2'	26:1H:654(A):A:H8	1.83	0.42
26:1H:718:A:C8	26:1H:719:C:C6	3.07	0.42
26:1H:764:A:H5'	29:11:210:GLY:HA2	2.00	0.42
26:1H:1336:A:H2'	26:1H:1337:G:H8	1.83	0.42
26:1H:1458:C:H4'	26:1H:1459:G:O4'	2.20	0.42
26:1H:1533:C:N3	26:1H:1534:G:C2	2.88	0.42
26:1H:2163:C:H4'	26:1H:2172:U:OP2	2.19	0.42
26:1H:2175:C:OP2	28:71:3:HIS:ND1	2.53	0.42
26:1H:2320:A:H8	26:1H:2321:G:O6	2.03	0.42
26:1H:2323:G:H2'	26:1H:2324:C:O4'	2.18	0.42
26:1H:2532:G:H8	26:1H:2532:G:O5'	2.03	0.42
26:1H:2592:G:C6	26:1H:2593:U:C4	3.08	0.42
26:1H:2617:C:C2	26:1H:2618:G:C8	3.07	0.42
26:1H:2682:U:H5'	26:1H:2682:U:H6	1.83	0.42
28:71:58:VAL:CG1	28:71:199:HIS:HB3	2.49	0.42
30:21:60:ASN:OD1	30:21:61:ARG:N	2.52	0.42
31:31:53:THR:O	31:31:55:GLY:N	2.52	0.42
32:41:130:ASN:OD1	32:41:160:VAL:HG13	2.20	0.42
33:51:5:GLY:HA2	33:51:8:PRO:HD3	2.01	0.42
33:51:101:ARG:HH12	33:51:122:THR:HA	1.84	0.42
35:58:9:VAL:HG21	35:58:48:MET:HB2	2.01	0.42
37:78:39:LYS:HB2	37:78:45:LEU:CD1	2.50	0.42
37:78:120:ALA:HB1	37:78:138:LEU:HA	2.01	0.42
39:98:50:HIS:O	39:98:51:LEU:C	2.63	0.42
41:B8:39:ARG:HE	41:B8:39:ARG:HB2	1.60	0.42
47:H8:28:MET:O	47:H8:34:ASN:HA	2.19	0.42
47:H8:99:TYR:CE1	47:H8:125:LEU:HB2	2.54	0.42
48:I8:29:GLN:O	48:I8:67:VAL:HG12	2.20	0.42
48:I8:49:LYS:O	48:I8:50:ASN:HB2	2.20	0.42
48:I8:51:VAL:N	48:I8:62:LEU:HD12	2.34	0.42
51:L8:8:LEU:HD13	51:L8:31:LEU:HD23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:P8:24:THR:O	54:P8:28:ARG:HG3	2.19	0.42
1:1G:51:A:N3	1:1G:116:A:H1'	2.35	0.42
1:1G:427:U:O4	1:1G:428:G:N1	2.52	0.42
1:1G:437:U:C4	1:1G:438:G:C6	3.07	0.42
1:1G:591:U:OP2	8:72:30:ARG:HD3	2.18	0.42
1:1G:860:A:N6	1:1G:861:G:C2	2.87	0.42
1:1G:957:U:H2'	1:1G:959:A:OP2	2.19	0.42
1:1G:1238:A:N6	1:1G:1299:A:H61	2.14	0.42
1:1G:1263:C:H2'	1:1G:1264:C:O4'	2.19	0.42
1:1G:1317:C:C5	14:5A:16:PHE:HB3	2.55	0.42
1:1G:1359:C:H4'	61:5A:201:HOH:O	2.20	0.42
2:12:172:ILE:H	2:12:172:ILE:HD12	1.85	0.42
3:22:11:ARG:O	3:22:14:ILE:O	2.38	0.42
4:32:207:TYR:O	4:32:209:ARG:N	2.52	0.42
8:72:11:THR:OG1	8:72:14:ARG:NH2	2.48	0.42
13:4A:11:ARG:NH1	32:49:147:ASP:OD2	2.52	0.42
14:5A:13:THR:N	14:5A:14:PRO:HD3	2.35	0.42
57:3L:9:A:N1	57:3L:21:A:H2	2.17	0.42
26:14:318:C:H2'	26:14:319:C:H6	1.84	0.42
26:14:396:G:O2'	49:F5:43:TYR:O	2.33	0.42
26:14:642:G:C8	26:14:642:G:C3'	3.02	0.42
26:14:777:A:C2	26:14:778:G:C5	3.08	0.42
26:14:953:A:N1	26:14:954:G:C5	2.86	0.42
26:14:1514:U:O2'	26:14:1515:C:H5'	2.20	0.42
26:14:1762:A:N3	26:14:1762:A:C2'	2.83	0.42
26:14:1912:A:N7	26:14:1918:A:C2	2.87	0.42
26:14:2079:U:H2'	26:14:2080:G:O4'	2.20	0.42
26:14:2312:U:OP1	32:49:74:LYS:HG3	2.19	0.42
27:1J:27:C:O3'	40:65:36:TYR:OH	2.32	0.42
32:49:105:LYS:HD2	32:49:141:PHE:CD2	2.55	0.42
43:95:48:GLY:CA	43:95:51:VAL:C	2.93	0.42
49:F5:62:VAL:HG21	49:F5:70:VAL:HG21	2.02	0.42
49:F5:69:LYS:HE2	49:F5:95:LEU:HD11	2.02	0.42
55:M5:30:ARG:HA	55:M5:30:ARG:HD3	1.94	0.42
1:13:171:A:H2'	1:13:171:A:N3	2.35	0.42
1:13:450:G:N7	1:13:481:G:C6	2.87	0.42
1:13:676:A:H5''	11:2I:113:PRO:HB3	2.01	0.42
1:13:971:G:P	1:13:1231:G:H21	2.42	0.42
1:13:1084:G:C8	1:13:1085:U:C5	3.07	0.42
2:1E:156:LYS:HA	2:1E:156:LYS:HD3	1.75	0.42
7:6E:69:VAL:O	7:6E:69:VAL:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:7E:103:VAL:HG21	8:7E:110:ALA:HB2	2.02	0.42
20:BI:57:ARG:NH1	20:BI:102:GLY:HA2	2.34	0.42
21:1F:10:ARG:HH21	21:1F:13:ILE:HD12	1.85	0.42
22:1K:2:G:C2	22:1K:3:G:O6	2.72	0.42
22:1K:12:U:H3	22:1K:24:G:N2	2.18	0.42
22:1K:41:A:H2'	22:1K:41:A:N3	2.34	0.42
24:3K:4:U:H3	24:3K:69:A:N6	2.05	0.42
26:1H:104:U:C2'	26:1H:105:C:H5'	2.49	0.42
26:1H:182:A:H2'	26:1H:183:C:C6	2.54	0.42
26:1H:270(R):G:C2	26:1H:270(S):G:C6	3.07	0.42
26:1H:360:G:H2'	26:1H:361:G:O4'	2.20	0.42
26:1H:380:U:C2	26:1H:381:G:C8	3.08	0.42
26:1H:534:U:H2'	26:1H:535:C:H6	1.84	0.42
26:1H:562:U:C4	26:1H:2036:C:O4'	2.73	0.42
26:1H:638:G:C5	26:1H:651:G:C2	3.07	0.42
26:1H:1204:A:C2	26:1H:1241:A:N1	2.88	0.42
26:1H:1252:G:O4'	42:C8:33:ARG:HD3	2.20	0.42
26:1H:1363:C:H42	26:1H:1368:G:H1	1.67	0.42
26:1H:1420:U:H6	26:1H:1420:U:H2'	1.65	0.42
26:1H:1442:G:H2'	26:1H:1443:G:C8	2.54	0.42
26:1H:1510:A:H1'	26:1H:1512:G:O6	2.20	0.42
26:1H:1670:C:H3'	26:1H:1671:U:H6	1.84	0.42
26:1H:2119:A:N1	26:1H:2170:A:H2'	2.35	0.42
26:1H:2321:G:N3	26:1H:2321:G:H2'	2.33	0.42
26:1H:2331:G:H4'	48:I8:43:THR:H	1.84	0.42
26:1H:2358:G:C4	26:1H:2359:C:C6	3.08	0.42
26:1H:2629:A:N1	26:1H:2801:A:H4'	2.35	0.42
29:11:89:SER:HB2	29:11:159:ALA:CB	2.49	0.42
31:31:18:ARG:O	31:31:19:GLU:HG2	2.20	0.42
32:41:81:LYS:HA	32:41:81:LYS:HD3	1.84	0.42
33:51:12:PRO:HB3	33:51:48:GLY:HA2	2.01	0.42
33:51:94:TYR:CE2	33:51:160:LYS:HB3	2.55	0.42
41:B8:20:PRO:HG2	41:B8:86:ILE:O	2.20	0.42
47:H8:29:TYR:O	47:H8:89:PHE:HA	2.19	0.42
48:I8:48:GLY:N	48:I8:79:VAL:O	2.51	0.42
48:I8:72:ARG:HB3	48:I8:75:LEU:HB2	2.00	0.42
50:K8:8:LYS:HA	50:K8:11:GLU:HB3	2.02	0.42
1:1G:8:A:N7	4:32:209:ARG:HA	2.35	0.42
1:1G:410:G:N1	1:1G:431:A:OP2	2.48	0.42
1:1G:428:G:O4'	1:1G:430:A:C8	2.73	0.42
1:1G:799:G:H3'	1:1G:800:G:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:973:G:H5''	1:1G:974:A:H3'	2.01	0.42
5:42:136:MET:H	5:42:136:MET:HG2	1.71	0.42
7:62:136:LYS:HZ3	7:62:137:LYS:NZ	2.15	0.42
7:62:142:GLU:C	7:62:144:MET:H	2.28	0.42
12:3A:58:VAL:O	12:3A:65:GLU:HA	2.20	0.42
12:3A:90:VAL:O	12:3A:92:ASP:N	2.52	0.42
15:6A:24:SER:O	15:6A:28:GLN:HG3	2.18	0.42
17:8A:16:GLN:HA	17:8A:49:GLU:OE2	2.19	0.42
56:1L:9:A:N7	56:1L:45:G:O2'	2.43	0.42
26:14:375:C:H2'	26:14:376:C:C6	2.54	0.42
26:14:587:C:C5	26:14:671:C:H1'	2.55	0.42
26:14:740:U:O4'	26:14:1981:A:C4	2.72	0.42
26:14:744:G:OP1	30:29:132:HIS:HA	2.19	0.42
26:14:1278:A:O2'	39:55:34:ILE:HD11	2.19	0.42
26:14:1436:G:N2	26:14:1557:C:C2	2.88	0.42
26:14:1450:C:H2'	26:14:1451:C:C5	2.55	0.42
26:14:1461:G:O2'	26:14:1462:C:H5'	2.19	0.42
26:14:1839:G:H2'	26:14:1839:G:N3	2.34	0.42
26:14:2025:C:H2'	26:14:2026:C:H6	1.84	0.42
26:14:2146:C:H4'	26:14:2147:G:N7	2.34	0.42
26:14:2285:C:H2'	26:14:2286:A:H5''	2.02	0.42
26:14:2494:G:C4	26:14:2495:G:C8	3.07	0.42
26:14:2505:G:H2'	26:14:2576:G:O6	2.20	0.42
26:14:2688:U:C5	26:14:2720:U:OP2	2.72	0.42
26:14:2823:A:OP1	30:29:113:PHE:HB2	2.20	0.42
27:1J:38:C:N3	27:1J:44:G:N2	2.67	0.42
32:49:25:TYR:OH	32:49:168:GLU:OE2	2.37	0.42
32:49:102:PHE:CG	32:49:105:LYS:HE2	2.55	0.42
37:35:125:VAL:O	37:35:125:VAL:HG13	2.19	0.42
38:45:22:LYS:HG2	38:45:23:GLY:CA	2.41	0.42
39:55:44:LEU:O	39:55:45:ARG:C	2.63	0.42
41:75:3:ARG:HE	41:75:5:ALA:HB3	1.84	0.42
45:B5:44:GLU:HG3	45:B5:51:VAL:CG2	2.50	0.42
49:F5:52:ARG:HD2	49:F5:57:GLU:HG2	2.02	0.42
1:13:560:U:O2'	1:13:561:U:OP2	2.31	0.42
1:13:712:A:C6	1:13:713:G:C6	3.07	0.42
1:13:715:A:H1'	1:13:777:A:C2	2.54	0.42
1:13:716:A:H1'	11:2I:118:GLY:O	2.19	0.42
1:13:1327:C:OP1	21:1F:21:TYR:HD2	2.02	0.42
7:6E:65:ALA:O	7:6E:69:VAL:HG23	2.20	0.42
9:8E:18:PHE:HD2	9:8E:62:TYR:HD2	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2I:54:ARG:HA	11:2I:57:THR:HG23	2.01	0.42
15:6I:57:LEU:HD23	15:6I:57:LEU:HA	1.74	0.42
26:1H:580:C:H2'	26:1H:581:C:H6	1.84	0.42
26:1H:719:C:C2	26:1H:720:C:C5	3.06	0.42
26:1H:742:G:H2'	26:1H:743:G:C8	2.55	0.42
26:1H:757:U:H2'	26:1H:758:C:C6	2.54	0.42
26:1H:856:C:O2'	48:I8:27:GLU:HB2	2.19	0.42
26:1H:873:G:H1	26:1H:904:C:H42	1.68	0.42
26:1H:1233:C:H2'	26:1H:1234:U:O4'	2.20	0.42
26:1H:1478:G:N3	26:1H:1479:G:C8	2.88	0.42
26:1H:1685:C:C2	26:1H:1704:G:N2	2.88	0.42
26:1H:1999:C:H4'	26:1H:2723:C:O2	2.20	0.42
26:1H:2563:U:H4'	36:68:28:SER:HA	2.02	0.42
26:1H:2792:G:O6	26:1H:2805:G:C4	2.73	0.42
26:1H:2817:G:C4	26:1H:2830:G:C2	3.08	0.42
27:16:8:U:O3'	40:A8:25:ARG:NH2	2.52	0.42
28:71:10:LEU:HD22	28:71:10:LEU:H	1.84	0.42
29:11:70:TRP:CZ2	29:11:150:LYS:HD3	2.54	0.42
29:11:89:SER:HB2	29:11:159:ALA:HB2	2.01	0.42
31:31:139:PHE:C	31:31:139:PHE:CD1	2.97	0.42
31:31:142:TRP:CE3	31:31:142:TRP:C	2.98	0.42
33:51:50:VAL:O	33:51:50:VAL:HG13	2.20	0.42
33:51:92:ILE:H	33:51:92:ILE:HD12	1.85	0.42
35:58:46:VAL:O	35:58:47:ALA:HB3	2.19	0.42
39:98:26:LYS:HE3	39:98:70:LEU:O	2.19	0.42
40:A8:102:ALA:O	40:A8:105:ALA:N	2.51	0.42
41:B8:111:ARG:O	41:B8:112:ARG:CB	2.67	0.42
43:D8:49:THR:HB	43:D8:51:VAL:N	2.35	0.42
45:F8:12:VAL:HG12	45:F8:29:TRP:CD2	2.54	0.42
54:P8:12:ARG:NH2	54:P8:44:PRO:HB3	2.34	0.42
1:1G:135:C:C2	16:7A:1:MET:HB3	2.54	0.42
1:1G:404:U:P	4:32:118:ARG:HH11	2.43	0.42
1:1G:448:A:O2'	1:1G:449:C:H5'	2.20	0.42
1:1G:667:G:OP1	1:1G:732:C:O2'	2.37	0.42
1:1G:737:A:H2'	1:1G:738:C:C6	2.55	0.42
1:1G:947:G:H2'	1:1G:948:C:O4'	2.19	0.42
1:1G:1002:G:N1	1:1G:1039:C:O2	2.52	0.42
1:1G:1249:C:O2'	9:82:69:GLY:HA2	2.19	0.42
1:1G:1505:G:H4'	1:1G:1506:U:H5''	2.00	0.42
1:1G:1517:G:C6	1:1G:1518:A:C5	3.07	0.42
2:12:71:VAL:CG1	2:12:164:VAL:HA	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:86:GLU:O	2:12:89:GLY:N	2.52	0.42
2:12:129:GLU:O	2:12:130:ARG:C	2.61	0.42
4:32:24:GLU:N	4:32:24:GLU:OE2	2.53	0.42
5:42:76:ILE:HG12	5:42:118:ILE:HD12	2.00	0.42
7:62:65:ALA:HB2	7:62:128:ALA:HB2	2.02	0.42
13:4A:86:CYS:HA	19:AA:74:PHE:HA	2.02	0.42
20:BA:58:LYS:HD2	20:BA:58:LYS:HA	1.77	0.42
23:2L:49:C:N4	23:2L:60:A:C8	2.87	0.42
23:2L:77:A:N3	23:2L:77:A:C2'	2.82	0.42
57:3L:45:G:H5''	57:3L:46:G:C8	2.55	0.42
57:3L:59:A:C6	57:3L:60:U:O2	2.72	0.42
25:4L:10:G:N1	25:4L:11:U:C5	2.87	0.42
26:14:82:G:H5'	26:14:296:C:H5'	2.02	0.42
26:14:247:G:H4'	26:14:386:G:C5	2.55	0.42
26:14:296:C:H2'	26:14:297:C:H6	1.85	0.42
26:14:662:G:H5'	37:35:15:ARG:C	2.44	0.42
26:14:677:A:C4	26:14:678:C:C5	3.08	0.42
26:14:852:G:C6	26:14:926:A:C6	3.07	0.42
26:14:1301:A:C8	26:14:1303:G:C8	3.07	0.42
26:14:1356:G:C6	26:14:1357:U:C4	3.07	0.42
26:14:1464:C:HO2'	26:14:1528:A:H8	1.60	0.42
26:14:1488:G:C6	26:14:1489:U:C2	3.07	0.42
26:14:1496:A:H8	26:14:1577:C:O2'	2.03	0.42
26:14:1639:U:O2'	26:14:1640:C:H5'	2.20	0.42
26:14:2095:C:C4	26:14:2096:U:C5	3.08	0.42
26:14:2257:U:O2'	26:14:2258:C:H5'	2.20	0.42
26:14:2296:U:O2	26:14:2333:A:N3	2.52	0.42
26:14:2416:C:OP1	37:35:65:ARG:O	2.38	0.42
26:14:2578:G:N7	30:29:140:SER:HB2	2.34	0.42
26:14:2615:U:H2'	26:14:2616:C:C6	2.54	0.42
30:29:34:VAL:HG12	30:29:64:LYS:HE3	2.01	0.42
30:29:36:ARG:O	30:29:37:ARG:C	2.63	0.42
30:29:119:ARG:HH12	30:29:120:TRP:HZ2	1.65	0.42
31:39:78:ILE:HA	31:39:83:PHE:CD2	2.55	0.42
31:39:158:THR:O	31:39:164:ARG:NH1	2.51	0.42
32:49:36:LYS:CE	32:49:95:ARG:HH22	2.32	0.42
32:49:107:LEU:HD21	32:49:178:PHE:HE1	1.84	0.42
32:49:170:ARG:HA	32:49:170:ARG:HD2	1.91	0.42
33:59:60:ARG:O	33:59:64:LEU:HG	2.19	0.42
35:15:97:ARG:HA	35:15:100:GLU:HB2	2.02	0.42
36:25:49:ARG:HA	36:25:53:LYS:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:45:87:LYS:HB3	38:45:90:VAL:CG2	2.49	0.42
42:85:39:LEU:HD23	42:85:39:LEU:HA	1.54	0.42
47:D5:29:TYR:O	47:D5:89:PHE:HD1	2.03	0.42
48:E5:29:GLN:O	48:E5:67:VAL:HG23	2.19	0.42
49:F5:59:THR:HG23	49:F5:59:THR:O	2.19	0.42
49:F5:95:LEU:HD12	49:F5:95:LEU:HA	1.80	0.42
1:13:46:G:H2'	1:13:366:C:C5	2.53	0.42
1:13:159:G:H2'	1:13:161:A:OP2	2.19	0.42
1:13:260:G:H2'	1:13:261:U:C6	2.55	0.42
1:13:359:U:O4	1:13:360:A:N6	2.53	0.42
1:13:375:U:C2	1:13:376:G:C8	3.07	0.42
1:13:591:U:C2	1:13:592:G:C8	3.08	0.42
1:13:672:U:H2'	1:13:673:G:H8	1.84	0.42
1:13:721:G:N1	1:13:733:A:C2	2.88	0.42
1:13:858:G:N1	1:13:870:U:OP2	2.44	0.42
1:13:1004:A:N7	1:13:1026:G:N7	2.68	0.42
1:13:1023:G:C3'	1:13:1024:G:H5''	2.50	0.42
1:13:1212:U:H4'	1:13:1213:A:H5''	2.02	0.42
1:13:1369:C:H2'	1:13:1370:G:C8	2.54	0.42
2:1E:21:ARG:O	2:1E:23:ARG:N	2.53	0.42
2:1E:119:GLU:OE2	2:1E:153:ARG:NH1	2.53	0.42
11:2I:48:ILE:HD13	11:2I:64:ALA:HA	2.02	0.42
14:5I:15:LYS:HG2	14:5I:16:PHE:CD2	2.55	0.42
20:BI:40:ALA:HB2	20:BI:55:ILE:HG23	2.02	0.42
22:1K:14:A:C6	22:1K:23:A:C8	3.07	0.42
22:1K:27:G:N2	22:1K:43:U:N3	2.68	0.42
24:3K:16:U:O2	24:3K:61:C:H5'	2.20	0.42
24:3K:59:A:N3	24:3K:59:A:H2'	2.35	0.42
26:1H:76:C:O5'	26:1H:76:C:H6	2.03	0.42
26:1H:109:G:H2'	26:1H:110:G:O4'	2.20	0.42
26:1H:265:A:C2	26:1H:428:A:C2	3.08	0.42
26:1H:270(V):G:C4	26:1H:270(W):G:C8	3.08	0.42
26:1H:273(F):C:H3'	26:1H:274:G:H5''	2.01	0.42
26:1H:280:C:N3	26:1H:361:G:C2	2.87	0.42
26:1H:307:G:N2	26:1H:310:A:C8	2.88	0.42
26:1H:447:A:C4	26:1H:473:G:N7	2.88	0.42
26:1H:489:G:C2	26:1H:491:G:H1'	2.54	0.42
26:1H:628:G:H2'	26:1H:629:G:C8	2.55	0.42
26:1H:994:C:OP1	42:C8:53:ARG:NH2	2.52	0.42
26:1H:1028:A:N6	26:1H:1125:G:H2'	2.35	0.42
26:1H:1141:U:C5	35:58:64:GLY:HA3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1209:G:H21	26:1H:1210:A:H62	1.68	0.42
26:1H:1289:C:H2'	26:1H:1290:C:C6	2.54	0.42
26:1H:1486:A:C4	26:1H:1487:G:C8	3.07	0.42
26:1H:1567:A:C4	29:11:84:TYR:CD2	3.07	0.42
26:1H:1790:C:H5''	26:1H:1791:A:OP1	2.20	0.42
26:1H:2022:U:O2'	26:1H:2617:C:H5'	2.20	0.42
26:1H:2027:G:C4	26:1H:2028:U:C6	3.08	0.42
26:1H:2250:G:C5	38:88:83:MET:CB	3.03	0.42
26:1H:2359:C:H2'	26:1H:2360:A:O4'	2.19	0.42
26:1H:2408:U:H2'	26:1H:2409:G:C8	2.55	0.42
26:1H:2889:C:H2'	26:1H:2891:G:O4'	2.19	0.42
27:16:1(M):A:N3	27:16:1(M):A:O5'	2.50	0.42
29:11:106:ILE:HG21	29:11:106:ILE:HD13	1.71	0.42
32:41:47:LYS:HG2	32:41:48:GLU:N	2.35	0.42
32:41:109:VAL:HG13	52:M8:33:VAL:HG22	2.02	0.42
32:41:125:PHE:CE1	32:41:131:TYR:HB2	2.55	0.42
34:61:5:LEU:HD23	34:61:5:LEU:HA	1.73	0.42
37:78:90:ARG:C	37:78:91:PHE:HD1	2.26	0.42
42:C8:65:ILE:HG12	42:C8:96:ALA:HB2	2.02	0.42
44:E8:56:ALA:C	44:E8:58:ALA:H	2.27	0.42
46:G8:96:ILE:HD12	46:G8:101:LYS:HE2	2.02	0.42
47:H8:37:VAL:HG22	47:H8:38:TYR:N	2.34	0.42
47:H8:52:SER:O	47:H8:53:ILE:HG12	2.20	0.42
51:L8:6:VAL:CG1	51:L8:54:VAL:HB	2.50	0.42
1:1G:176:C:H2'	1:1G:177:C:C6	2.54	0.42
1:1G:407:G:C2	1:1G:436:C:O2	2.73	0.42
1:1G:604:G:C5	1:1G:605:U:C5	3.08	0.42
1:1G:683:G:H2'	1:1G:684:A:C8	2.54	0.42
1:1G:742:G:P	15:6A:35:ARG:HH21	2.43	0.42
1:1G:989:C:H2'	1:1G:990:C:C6	2.55	0.42
1:1G:1162:C:N3	1:1G:1175:G:C2	2.87	0.42
1:1G:1298:C:H4'	1:1G:1299:A:C8	2.54	0.42
1:1G:1317:C:H5''	1:1G:1318:A:OP2	2.20	0.42
4:32:31:CYS:HB2	4:32:33:MET:HB2	2.00	0.42
8:72:109:ILE:HA	8:72:121:ASP:OD2	2.20	0.42
9:82:10:ARG:HH11	9:82:11:LYS:HB2	1.85	0.42
13:4A:32:GLU:HG2	13:4A:36:LYS:HB3	2.01	0.42
14:5A:29:ARG:NE	14:5A:39:LEU:O	2.52	0.42
15:6A:32:LEU:CD1	15:6A:62:GLN:HB3	2.49	0.42
57:3L:18:G:H4'	57:3L:60:U:O4	2.19	0.42
26:14:27:G:C2	26:14:512:G:N3	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:404:C:O2'	26:14:405:U:OP2	2.35	0.42
26:14:691:C:H2'	26:14:692:C:H6	1.85	0.42
26:14:823:G:H2'	26:14:824:A:C8	2.54	0.42
26:14:1043:C:H2'	26:14:1044:G:H5'	2.01	0.42
26:14:1054:A:H2	26:14:1055:G:O6	2.03	0.42
26:14:1141:U:H6	35:15:63:THR:CG2	2.33	0.42
26:14:1328:G:H2'	26:14:1330:C:C4	2.55	0.42
26:14:2003:G:H8	26:14:2003:G:O5'	2.02	0.42
26:14:2010:G:H5''	44:A5:42:ARG:HB2	2.00	0.42
26:14:2854:G:O2'	26:14:2855:C:H5'	2.20	0.42
26:14:2855:C:H2'	26:14:2856:C:H6	1.84	0.42
27:1J:3:C:H2'	27:1J:4:C:H6	1.83	0.42
29:19:268:ARG:O	29:19:268:ARG:HG3	2.20	0.42
30:29:37:ARG:HD2	30:29:44:TYR:CE2	2.53	0.42
31:39:20:LEU:HA	31:39:20:LEU:HD23	1.55	0.42
31:39:135:LYS:HA	31:39:135:LYS:HD2	1.78	0.42
34:69:3:VAL:HB	34:69:37:VAL:O	2.19	0.42
35:15:75:TYR:CE2	35:15:77:GLY:HA2	2.55	0.42
37:35:75:ILE:HD12	37:35:77:ARG:CZ	2.49	0.42
38:45:45:GLN:OE1	38:45:45:GLN:N	2.49	0.42
43:95:21:ARG:HH21	43:95:91:TYR:C	2.28	0.42
46:C5:45:VAL:HB	46:C5:60:PHE:HD2	1.84	0.42
1:13:132:C:C2	1:13:231:G:N2	2.88	0.42
1:13:224:C:H2'	1:13:225:C:C5	2.55	0.42
1:13:552:U:O4	1:13:553:A:N6	2.53	0.42
1:13:560:U:H5'	1:13:566:G:N2	2.35	0.42
1:13:647:C:C4	1:13:648:A:N7	2.88	0.42
1:13:725:G:C2	1:13:726:C:C6	3.08	0.42
1:13:767:A:H3'	61:13:1826:HOH:O	2.19	0.42
1:13:1133:G:H2'	1:13:1134:G:H8	1.85	0.42
1:13:1170:A:H8	1:13:1170:A:O5'	2.03	0.42
1:13:1297:C:OP1	13:4I:13:LYS:HG2	2.20	0.42
1:13:1320:C:H2'	1:13:1321:C:O4'	2.19	0.42
1:13:1321:C:C5	1:13:1322:C:C2	3.07	0.42
3:2E:34:LEU:O	3:2E:34:LEU:HD12	2.19	0.42
3:2E:77:ILE:HA	3:2E:84:ILE:HB	2.02	0.42
7:6E:18:TYR:CD2	7:6E:59:LEU:HD12	2.49	0.42
12:3I:50:SER:O	12:3I:51:ALA:HB2	2.20	0.42
13:4I:108:ARG:HH21	13:4I:113:PRO:C	2.28	0.42
22:1K:63:U:OP2	22:1K:63:U:H6	2.02	0.42
26:1H:370:G:OP2	61:1H:3559:HOH:O	2.21	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:952:G:H5''	26:1H:953:A:OP2	2.19	0.42
26:1H:1775:U:H2'	26:1H:1776:G:O5'	2.20	0.42
26:1H:2183:C:O5'	26:1H:2183:C:H6	2.03	0.42
26:1H:2609:U:H4'	26:1H:2610:C:OP2	2.20	0.42
26:1H:2747:G:H5''	33:51:70:THR:CG2	2.50	0.42
26:1H:2846:G:H2'	26:1H:2847:U:O4'	2.19	0.42
27:16:11:C:H3'	27:16:12:C:H6	1.85	0.42
30:21:105:THR:HG21	30:21:164:ARG:CZ	2.49	0.42
33:51:52:VAL:O	33:51:65:HIS:NE2	2.51	0.42
38:88:115:MET:HE3	38:88:133:ARG:NH1	2.34	0.42
43:D8:46:VAL:HG13	43:D8:46:VAL:O	2.19	0.42
47:H8:33:LEU:HG	47:H8:34:ASN:N	2.35	0.42
50:K8:63:VAL:HA	50:K8:66:GLU:CG	2.49	0.42
51:L8:16:PRO:O	51:L8:20:LYS:HG3	2.19	0.42
1:1G:198:G:H22	1:1G:220:G:H1'	1.85	0.42
1:1G:324:G:H2'	1:1G:326:G:OP2	2.20	0.42
1:1G:616:G:N3	1:1G:617:G:C8	2.88	0.42
1:1G:625:G:H2'	1:1G:626:U:H6	1.85	0.42
1:1G:958:A:N6	1:1G:1221:G:O2'	2.52	0.42
1:1G:983:A:O2'	1:1G:1050:G:OP2	2.28	0.42
1:1G:1111:A:C6	1:1G:1112:C:N4	2.88	0.42
1:1G:1149:C:O2'	1:1G:1280:A:N1	2.46	0.42
1:1G:1328:C:H2'	1:1G:1329:A:C8	2.55	0.42
1:1G:1489:G:H2'	1:1G:1490:C:H6	1.83	0.42
2:12:35:GLU:HG3	2:12:38:GLY:HA2	2.02	0.42
2:12:193:ASP:OD2	2:12:196:LEU:HD21	2.20	0.42
3:22:37:GLN:O	3:22:40:ARG:N	2.53	0.42
3:22:155:GLY:HA3	3:22:196:LEU:HD13	2.01	0.42
4:32:31:CYS:HB2	4:32:33:MET:CA	2.49	0.42
4:32:61:LYS:CB	4:32:203:VAL:HG13	2.43	0.42
9:82:25:LYS:HE3	9:82:33:PHE:HD2	1.85	0.42
9:82:53:VAL:HG22	9:82:95:LYS:HE3	2.02	0.42
10:1A:54:PHE:CE1	10:1A:55:LYS:HE3	2.55	0.42
13:4A:64:TRP:CD1	13:4A:64:TRP:N	2.86	0.42
23:2L:20:G:H4'	23:2L:21:U:OP2	2.18	0.42
26:14:405:U:O2	26:14:405:U:H2'	2.20	0.42
26:14:484:C:P	46:C5:49:VAL:HG13	2.59	0.42
26:14:508:G:H4'	26:14:509:C:OP2	2.19	0.42
26:14:548:A:N6	26:14:549:G:N3	2.68	0.42
26:14:1023:U:OP2	26:14:1024:G:N7	2.53	0.42
26:14:1055:G:N3	26:14:1055:G:H2'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1243:G:O5'	26:14:1243:G:H8	2.02	0.42
26:14:2290:G:H4'	26:14:2381:C:O2'	2.20	0.42
26:14:2403:C:N3	26:14:2415:G:C2	2.88	0.42
26:14:2635:C:OP1	30:29:77:ILE:HB	2.20	0.42
26:14:2670:A:O2'	26:14:2671:A:H5'	2.20	0.42
26:14:2851:A:C5	26:14:2852:G:C5	3.08	0.42
27:1J:33:G:H1'	27:1J:50:G:H22	1.85	0.42
29:19:44:ASN:HB3	29:19:45:ASN:CA	2.50	0.42
29:19:181:GLU:CB	29:19:272:ALA:HB1	2.50	0.42
30:29:47:VAL:HG23	30:29:84:PHE:O	2.19	0.42
31:39:18:ARG:NH2	31:39:20:LEU:HG	2.35	0.42
38:45:32:TYR:O	38:45:106:VAL:N	2.49	0.42
42:85:83:LEU:HA	42:85:83:LEU:HD23	1.82	0.42
45:B5:25:LYS:HA	45:B5:81:VAL:O	2.20	0.42
46:C5:85:VAL:HG23	46:C5:96:ILE:HG22	2.02	0.42
48:E5:20:ARG:HH11	48:E5:20:ARG:HD2	1.68	0.42
48:E5:26:TYR:HB2	48:E5:29:GLN:OE1	2.20	0.42
51:H5:6:VAL:HG22	51:H5:35:ARG:O	2.20	0.42
55:M5:59:LYS:C	55:M5:61:LEU:N	2.78	0.42
1:13:168:G:H21	1:13:169:C:H41	1.67	0.42
1:13:295:C:H2'	1:13:296:U:O4'	2.20	0.42
1:13:321:A:N7	1:13:328:C:O2'	2.46	0.42
1:13:447:G:H8	1:13:447:G:O5'	2.03	0.42
1:13:827:U:C4	1:13:870:U:N3	2.88	0.42
1:13:1154:G:H2'	1:13:1155:G:O4'	2.19	0.42
1:13:1428:A:H2'	1:13:1429:C:C6	2.55	0.42
2:1E:19:HIS:CD2	2:1E:205:ASP:OD1	2.69	0.42
2:1E:67:THR:C	2:1E:68:ILE:HD12	2.45	0.42
3:2E:12:LEU:O	3:2E:13:GLY:C	2.62	0.42
4:3E:155:LEU:O	4:3E:156:GLU:C	2.63	0.42
5:4E:68:GLU:O	5:4E:70:PRO:HD3	2.19	0.42
5:4E:118:ILE:HG12	5:4E:119:LEU:N	2.34	0.42
7:6E:17:VAL:HG13	7:6E:18:TYR:HD1	1.85	0.42
11:2I:50:TYR:CD2	11:2I:54:ARG:HB2	2.55	0.42
12:3I:51:ALA:O	12:3I:52:LEU:HD23	2.20	0.42
20:BI:26:ASN:O	20:BI:30:LYS:HG2	2.20	0.42
20:BI:83:ARG:HA	20:BI:86:ARG:HB2	2.02	0.42
22:1K:51:A:H2'	22:1K:52:G:C8	2.55	0.42
26:1H:53:A:H61	26:1H:117:G:H1'	1.85	0.42
26:1H:152:G:C2	26:1H:175:G:C2	3.08	0.42
26:1H:425:G:C4	26:1H:426:C:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:717:G:H2'	26:1H:718:A:O4'	2.19	0.42
26:1H:1491:G:H2'	26:1H:1492:G:H8	1.84	0.42
26:1H:1930:G:O2'	26:1H:1931:U:OP2	2.38	0.42
26:1H:2038:G:C6	26:1H:2039:C:C4	3.08	0.42
26:1H:2061:G:N3	26:1H:2063:C:C4	2.88	0.42
26:1H:2166:G:C4	26:1H:2171:A:N6	2.88	0.42
26:1H:2688:U:C5	26:1H:2720:U:OP2	2.69	0.42
26:1H:2811:G:H8	26:1H:2811:G:OP2	2.03	0.42
30:21:152:LYS:HG3	35:58:78:TYR:CZ	2.54	0.42
31:31:11:VAL:HA	31:31:125:LEU:HB2	2.02	0.42
31:31:53:THR:C	31:31:55:GLY:N	2.77	0.42
32:41:34:LEU:HD13	32:41:99:MET:SD	2.59	0.42
34:61:92:VAL:HG23	34:61:96:ASP:CB	2.50	0.42
34:61:112:LYS:O	34:61:113:ARG:HG2	2.20	0.42
35:58:17:ASP:C	35:58:19:GLU:H	2.28	0.42
35:58:40:PRO:CB	42:C8:68:ALA:HB2	2.50	0.42
37:78:16:ARG:HA	37:78:16:ARG:NE	2.34	0.42
37:78:136:GLU:O	37:78:137:LYS:C	2.63	0.42
38:88:10:ARG:HH22	48:I8:11:ARG:HH22	1.66	0.42
39:98:62:ALA:HA	39:98:65:LEU:HD23	2.01	0.42
40:A8:98:VAL:H	40:A8:98:VAL:HG22	1.58	0.42
42:C8:87:GLY:O	42:C8:89:GLU:HG3	2.19	0.42
47:H8:126:VAL:HA	47:H8:164:ALA:N	2.33	0.42
49:J8:66:HIS:C	49:J8:68:PRO:HD2	2.44	0.42
52:M8:15:ILE:HG13	52:M8:16:CYS:N	2.33	0.42
1:1G:188:U:O2'	1:1G:189:U:H5'	2.20	0.42
1:1G:241:C:C2	1:1G:286:G:C2	3.08	0.42
1:1G:341:C:H2'	1:1G:342:C:C6	2.55	0.42
1:1G:489:C:H2'	1:1G:490:G:O4'	2.20	0.42
1:1G:573:A:N3	1:1G:883:C:O2'	2.53	0.42
1:1G:758:G:H5''	1:1G:880:C:H1'	2.01	0.42
1:1G:918:A:H2'	1:1G:919:A:O4'	2.20	0.42
1:1G:984:C:H2'	1:1G:985:C:C6	2.55	0.42
1:1G:1327:C:H2'	1:1G:1328:C:C6	2.55	0.42
3:22:59:ARG:HE	3:22:59:ARG:HB2	1.48	0.42
4:32:113:SER:OG	4:32:116:GLN:HB2	2.20	0.42
4:32:129:ASN:OD1	4:32:144:ASP:HA	2.20	0.42
5:42:101:ILE:O	5:42:101:ILE:HG13	2.19	0.42
9:82:96:LEU:O	9:82:100:GLY:N	2.52	0.42
12:3A:117:ARG:HB3	12:3A:122:THR:HB	2.02	0.42
15:6A:25:THR:HG21	15:6A:70:LEU:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:89:ARG:HH11	20:BA:104:LEU:HB3	1.84	0.42
56:1L:9:A:H3'	56:1L:10:G:C8	2.55	0.42
26:14:270(P):C:O5'	26:14:270(P):C:H6	2.03	0.42
26:14:459:U:H2'	26:14:460:A:H8	1.85	0.42
26:14:541:C:H2'	26:14:542:C:H6	1.85	0.42
26:14:717:G:H2'	26:14:718:A:O4'	2.19	0.42
26:14:851:U:OP1	51:H5:49:LYS:HE2	2.20	0.42
26:14:861:A:C2	26:14:917:A:C4	3.08	0.42
26:14:1718:G:N2	26:14:1742:C:C2	2.88	0.42
26:14:1857:G:C6	26:14:1858:G:N1	2.88	0.42
26:14:2027:G:H2'	26:14:2028:U:O4'	2.20	0.42
26:14:2050:C:H1'	30:29:156:MET:CE	2.50	0.42
26:14:2128:C:H5'	26:14:2129:C:OP2	2.20	0.42
26:14:2409:G:H2'	26:14:2410:G:O4'	2.20	0.42
26:14:2616:C:O2'	26:14:2617:C:H5'	2.19	0.42
26:14:2697:G:H2'	26:14:2698:U:O4'	2.19	0.42
26:14:2852:G:H2'	26:14:2853:C:C6	2.55	0.42
27:1J:12:C:OP2	27:1J:12:C:H6	2.02	0.42
31:39:5:ALA:HB3	31:39:18:ARG:HE	1.85	0.42
33:59:148:ILE:O	33:59:151:ILE:HG12	2.20	0.42
37:35:68:GLN:OE1	55:M5:12:LYS:HG2	2.20	0.42
39:55:106:GLY:O	39:55:107:ASP:CB	2.67	0.42
43:95:24:LYS:C	43:95:25:LEU:HD23	2.45	0.42
47:D5:39:VAL:HG23	47:D5:40:ASP:O	2.19	0.42
1:13:157:G:H1	1:13:164:U:H3	1.66	0.41
1:13:235:C:H5'	17:8I:70:ARG:HG2	2.01	0.41
1:13:678:U:C4	1:13:679:C:N4	2.88	0.41
1:13:723:U:H5''	1:13:724:G:OP2	2.20	0.41
1:13:860:A:H5''	1:13:861:G:OP2	2.20	0.41
1:13:908:A:H2'	1:13:909:A:C8	2.55	0.41
1:13:916:G:H2'	1:13:917:G:H8	1.85	0.41
1:13:973:G:H3'	1:13:974:A:H5''	2.01	0.41
2:1E:15:VAL:HG12	2:1E:210:SER:HB3	2.01	0.41
3:2E:22:TRP:CH2	3:2E:32:LEU:HB3	2.55	0.41
6:5E:82:ARG:HB2	6:5E:85:VAL:CG2	2.45	0.41
7:6E:70:LYS:CG	7:6E:96:GLN:HB3	2.50	0.41
8:7E:13:ILE:O	8:7E:16:ALA:N	2.53	0.41
8:7E:28:ALA:HB3	8:7E:57:PRO:O	2.20	0.41
13:4I:79:LYS:HE3	13:4I:83:ASP:OD2	2.20	0.41
25:4K:8:A:H2'	25:4K:9:G:H8	1.84	0.41
26:1H:270(V):G:H2'	26:1H:270(W):G:C8	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:654:A:H2'	26:1H:654(A):A:C8	2.55	0.41
26:1H:657:U:H2'	26:1H:658:C:C6	2.54	0.41
26:1H:839:U:H3	26:1H:939:G:H1	1.67	0.41
26:1H:843:G:N2	26:1H:936:C:C2	2.88	0.41
26:1H:1034:G:H2'	26:1H:1035:U:O4'	2.20	0.41
26:1H:1242:A:N1	37:78:4:SER:OG	2.36	0.41
26:1H:1349:A:N3	26:1H:1349:A:O4'	2.52	0.41
26:1H:1404:C:H2'	26:1H:1405:U:H6	1.84	0.41
26:1H:1508:A:H2'	26:1H:1508:A:N3	2.35	0.41
26:1H:1526:G:H2'	26:1H:1527:G:O4'	2.20	0.41
26:1H:1638:C:O2	26:1H:2698:U:O2'	2.38	0.41
26:1H:1655:A:H4'	30:21:115:GLY:N	2.35	0.41
26:1H:1682:G:C2	26:1H:1683:C:C2	3.07	0.41
26:1H:1969:A:H1'	26:1H:1973:G:O4'	2.20	0.41
26:1H:2812:G:N2	26:1H:2813:A:C4	2.88	0.41
27:16:17:C:H2'	27:16:18:G:O4'	2.20	0.41
28:71:10:LEU:HG	28:71:32:LEU:HA	2.02	0.41
29:11:68:LYS:HA	29:11:70:TRP:CZ3	2.55	0.41
30:21:81:ILE:HG23	30:21:81:ILE:HD12	1.75	0.41
31:31:6:VAL:HG11	31:31:119:ARG:CA	2.49	0.41
31:31:45:ARG:HE	31:31:45:ARG:HB3	1.70	0.41
32:41:109:VAL:O	32:41:113:ARG:HG3	2.19	0.41
37:78:57:THR:O	37:78:58:THR:C	2.62	0.41
41:B8:105:LEU:O	41:B8:107:ASP:OD1	2.38	0.41
43:D8:19:LYS:HG2	43:D8:95:LEU:HD23	2.02	0.41
43:D8:44:LYS:C	43:D8:46:VAL:H	2.28	0.41
46:G8:23:ARG:HE	46:G8:23:ARG:HB3	1.46	0.41
46:G8:42:VAL:CG1	46:G8:43:ASN:N	2.81	0.41
52:M8:40:HIS:O	52:M8:40:HIS:CG	2.72	0.41
1:1G:355:C:O2'	1:1G:388:G:N3	2.46	0.41
1:1G:375:U:H5''	16:7A:69:THR:HG21	2.02	0.41
1:1G:1138:G:C2	1:1G:1140:C:C2	3.08	0.41
1:1G:1249:C:O2	9:82:70:LYS:HG3	2.20	0.41
2:12:162:ILE:HD11	2:12:184:VAL:HA	2.02	0.41
2:12:187:LEU:HD13	2:12:204:ASN:N	2.35	0.41
3:22:141:VAL:HA	3:22:144:SER:HB3	2.01	0.41
4:32:106:TYR:HE2	4:32:112:VAL:O	2.03	0.41
4:32:153:ARG:HD3	4:32:181:MET:SD	2.60	0.41
8:72:99:GLU:CG	8:72:100:ILE:H	2.25	0.41
20:BA:87:LYS:HB2	20:BA:87:LYS:HE3	1.88	0.41
56:1L:74:C:C4	26:14:2555:U:O2	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2L:20:G:C4	23:2L:58:A:N1	2.88	0.41
25:4L:12:A:O2'	25:4L:13:A:H4'	2.20	0.41
26:14:151:C:H6	26:14:151:C:O5'	2.03	0.41
26:14:814:C:N3	26:14:1194:A:C2	2.88	0.41
26:14:942:G:H4'	26:14:1190:G:H5'	2.01	0.41
26:14:1204:A:O2'	26:14:1205:U:OP2	2.36	0.41
26:14:1860:G:C6	26:14:1883:G:N2	2.88	0.41
26:14:2297:C:O2	26:14:2297:C:H2'	2.19	0.41
26:14:2312:U:O2	32:49:42:GLY:HA3	2.20	0.41
26:14:2757:A:N1	33:59:67:LEU:HD22	2.34	0.41
29:19:65:ILE:HD11	29:19:67:PHE:CZ	2.54	0.41
29:19:246:PRO:O	29:19:255:LYS:NZ	2.41	0.41
30:29:27:LEU:HD13	30:29:27:LEU:O	2.20	0.41
30:29:30:PRO:HA	30:29:91:VAL:O	2.20	0.41
30:29:39:PRO:HA	30:29:43:GLY:H	1.84	0.41
35:15:12:ARG:HE	35:15:14:VAL:HG22	1.85	0.41
36:25:43:VAL:HG23	36:25:56:ASP:O	2.20	0.41
37:35:39:LYS:CA	37:35:45:LEU:HD13	2.50	0.41
37:35:46:LYS:HE2	37:35:46:LYS:HB3	1.76	0.41
46:C5:39:VAL:HG23	46:C5:41:GLY:N	2.35	0.41
47:D5:102:LEU:HA	47:D5:137:ILE:HB	2.02	0.41
48:E5:51:VAL:HG23	48:E5:81:VAL:HG23	2.02	0.41
55:M5:48:PHE:N	55:M5:48:PHE:CD1	2.87	0.41
1:13:47:C:O2	1:13:49:U:C4	2.73	0.41
1:13:428:G:C5	1:13:430:A:C6	3.08	0.41
1:13:520:A:N1	1:13:536:C:H1'	2.35	0.41
1:13:956:U:H2'	1:13:957:U:O4'	2.20	0.41
1:13:1075:C:H4'	1:13:1101:A:N6	2.35	0.41
1:13:1312:G:O6	19:AI:3:ARG:N	2.53	0.41
1:13:1454:G:H2'	1:13:1455:G:C8	2.55	0.41
5:4E:64:ARG:HD2	5:4E:64:ARG:HH11	1.71	0.41
6:5E:16:GLN:HG2	6:5E:17:SER:H	1.86	0.41
7:6E:73:MET:HE2	7:6E:73:MET:HB2	1.69	0.41
7:6E:101:LEU:HD23	7:6E:101:LEU:HA	1.76	0.41
7:6E:108:ALA:HA	7:6E:111:ARG:HD2	2.01	0.41
13:4I:67:GLU:HG2	13:4I:68:GLY:N	2.35	0.41
22:1K:59:A:H5''	22:1K:60:U:OP2	2.19	0.41
22:1K:60:U:H3'	22:1K:61:C:H5	1.85	0.41
26:1H:61:G:P	50:K8:50:ILE:HD13	2.60	0.41
26:1H:270(E):G:H1	26:1H:270(U):C:H42	1.67	0.41
26:1H:289:A:N6	26:1H:351:G:H1'	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:315:G:H2'	26:1H:316:C:C6	2.55	0.41
26:1H:930:U:O2	26:1H:930:U:O4'	2.37	0.41
26:1H:1370:C:O2'	26:1H:1811:G:O2'	2.35	0.41
26:1H:1437:C:C2	26:1H:1438:U:C5	3.08	0.41
26:1H:1930:G:N2	26:1H:1968:G:H2'	2.35	0.41
26:1H:1978:A:H2'	26:1H:1979:C:H6	1.85	0.41
26:1H:2017:U:H4'	53:N8:8:LYS:O	2.19	0.41
26:1H:2336:A:N6	48:I8:43:THR:HG21	2.35	0.41
26:1H:2633:G:H8	26:1H:2633:G:O5'	2.03	0.41
26:1H:2845:G:H2'	26:1H:2846:G:C8	2.55	0.41
27:16:95:U:H2'	27:16:96:G:C8	2.55	0.41
28:71:49:ILE:O	28:71:51:PRO:HD3	2.20	0.41
29:11:238:GLY:C	29:11:239:ARG:O	2.61	0.41
30:21:120:TRP:CE3	30:21:155:LYS:HD3	2.55	0.41
31:31:7:TYR:HD2	31:31:21:ALA:HB1	1.85	0.41
31:31:64:ILE:HG23	31:31:65:TRP:NE1	2.35	0.41
32:41:167:GLU:H	32:41:167:GLU:HG2	1.59	0.41
35:58:31:ALA:O	35:58:35:ARG:HG3	2.20	0.41
42:C8:108:GLU:CG	43:D8:44:LYS:HE2	2.49	0.41
44:E8:57:ASN:O	44:E8:61:ASN:HB2	2.20	0.41
44:E8:65:LEU:HD23	44:E8:65:LEU:HA	1.95	0.41
50:K8:64:LEU:HD21	50:K8:68:ARG:NH1	2.35	0.41
1:1G:57:G:C5	1:1G:58:C:C4	3.07	0.41
1:1G:88:C:C6	1:1G:89:U:H5	2.38	0.41
1:1G:286:G:H2'	1:1G:287:U:C6	2.55	0.41
1:1G:1143:G:H2'	1:1G:1144:G:C8	2.55	0.41
1:1G:1263:C:H5'	1:1G:1264:C:OP2	2.20	0.41
1:1G:1272:G:H2'	1:1G:1273:G:O4'	2.21	0.41
3:22:112:SER:HB3	3:22:115:LEU:HD12	2.01	0.41
4:32:17:VAL:HG11	4:32:197:PRO:HB2	2.02	0.41
4:32:199:ASN:O	4:32:200:GLU:HG2	2.20	0.41
6:52:2:ARG:HG2	6:52:3:ARG:H	1.84	0.41
6:52:2:ARG:O	6:52:66:GLU:HA	2.20	0.41
7:62:131:LYS:HB3	7:62:131:LYS:HE3	1.68	0.41
8:72:123:GLU:HG2	8:72:124:ALA:N	2.35	0.41
10:1A:49:VAL:O	10:1A:60:ARG:HG2	2.19	0.41
13:4A:56:LEU:C	13:4A:59:TYR:H	2.29	0.41
15:6A:38:ARG:HE	15:6A:38:ARG:HB3	1.63	0.41
16:7A:48:TRP:CZ3	16:7A:49:LEU:HB2	2.56	0.41
17:8A:7:THR:O	17:8A:23:VAL:HG13	2.20	0.41
56:1L:72:C:H2'	56:1L:73:A:H5''	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:3L:1:G:N3	57:3L:1:G:H2'	2.35	0.41
26:14:106:C:O5'	26:14:106:C:H6	2.03	0.41
26:14:142:G:H5''	26:14:1598:C:O2'	2.20	0.41
26:14:143:C:C2	26:14:144:C:C5	3.07	0.41
26:14:662:G:OP1	37:35:15:ARG:NH1	2.53	0.41
26:14:1025:G:C4	26:14:1135:C:H1'	2.55	0.41
26:14:1028:A:N3	26:14:2486:G:O2'	2.46	0.41
26:14:1293:C:O5'	26:14:1293:C:H6	2.03	0.41
26:14:1420:U:H6	26:14:1420:U:H2'	1.68	0.41
26:14:1558:A:O4'	26:14:1558:A:N3	2.51	0.41
26:14:2019:A:N7	53:J5:9:LYS:HD2	2.36	0.41
26:14:2086:U:H2'	26:14:2087:G:C8	2.54	0.41
26:14:2312:U:OP2	32:49:74:LYS:HE2	2.20	0.41
26:14:2464:C:C2	26:14:2487:G:N2	2.88	0.41
29:19:119:ALA:HA	29:19:130:ALA:O	2.19	0.41
31:39:206:ILE:HG21	31:39:206:ILE:HD13	1.71	0.41
32:49:107:LEU:HD21	32:49:178:PHE:CE1	2.55	0.41
35:15:38:HIS:CD2	35:15:39:ARG:HG3	2.56	0.41
35:15:41:ASP:HB3	35:15:48:MET:CE	2.51	0.41
36:25:22:ILE:HA	36:25:22:ILE:HD13	1.56	0.41
37:35:101:VAL:H	37:35:106:LEU:HD23	1.85	0.41
39:55:45:ARG:HG2	39:55:95:THR:HG23	2.02	0.41
39:55:100:LEU:H	39:55:100:LEU:HG	1.55	0.41
40:65:13:ARG:HG3	40:65:14:VAL:N	2.34	0.41
40:65:24:LEU:HD22	40:65:24:LEU:H	1.85	0.41
41:75:53:ARG:HG3	41:75:53:ARG:O	2.19	0.41
43:95:96:ILE:N	43:95:96:ILE:HD13	2.35	0.41
47:D5:137:ILE:HD13	47:D5:137:ILE:HA	1.93	0.41
1:13:562:C:H1'	12:3I:15:ARG:HB3	2.02	0.41
1:13:1021:G:C5	1:13:1022:G:C8	3.09	0.41
1:13:1178:G:H5''	9:8E:93:ARG:NH2	2.35	0.41
1:13:1494:G:H2'	1:13:1494:G:N3	2.35	0.41
1:13:1504:G:OP1	1:13:1507:A:H4'	2.21	0.41
1:13:1510:U:O2	1:13:1526:G:C2	2.73	0.41
2:1E:25:ASN:CG	2:1E:193:ASP:HB3	2.45	0.41
2:1E:87:ARG:NH2	2:1E:232:PRO:HD3	2.35	0.41
3:2E:12:LEU:O	3:2E:16:ARG:O	2.37	0.41
3:2E:113:ALA:HB3	3:2E:114:PRO:HD3	2.02	0.41
4:3E:154:ASN:CG	4:3E:155:LEU:H	2.28	0.41
7:6E:86:GLN:NE2	24:3K:32:C:H4'	2.35	0.41
7:6E:146:GLU:O	7:6E:149:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:6E:154:TYR:HD1	7:6E:154:TYR:HA	1.64	0.41
11:2I:59:TYR:CE2	11:2I:63:LEU:HD11	2.56	0.41
12:3I:76:ASN:OD1	12:3I:76:ASN:N	2.46	0.41
22:1K:9:A:C5	22:1K:43:U:C5	3.08	0.41
23:2K:19:G:C2	23:2K:59:A:C6	3.08	0.41
26:1H:68:G:H2'	26:1H:69:C:O4'	2.20	0.41
26:1H:216:A:C4	26:1H:217:G:C8	3.08	0.41
26:1H:661:C:O3'	37:78:15:ARG:HG2	2.20	0.41
26:1H:860:U:H5	26:1H:917:A:N1	2.18	0.41
26:1H:1127:A:H2'	26:1H:1128:A:H5''	2.02	0.41
26:1H:1177:A:H4'	26:1H:1178:C:H2'	2.01	0.41
26:1H:1448:G:H5''	26:1H:1543:A:OP1	2.20	0.41
26:1H:1491:G:O4'	29:11:99:ASP:HB3	2.20	0.41
26:1H:1726:G:C6	26:1H:1727:U:C4	3.09	0.41
26:1H:2045:C:H2'	26:1H:2046:G:O4'	2.20	0.41
26:1H:2051:A:H5'	26:1H:2578:G:O4'	2.20	0.41
26:1H:2615:U:C2	53:N8:7:PRO:HA	2.56	0.41
26:1H:2679:A:C2	26:1H:2729:G:C2	3.08	0.41
29:11:82:ILE:O	29:11:82:ILE:HG22	2.20	0.41
32:41:37:VAL:O	32:41:94:LEU:HB2	2.21	0.41
34:61:97:ILE:N	34:61:97:ILE:HD13	2.34	0.41
34:61:132:PRO:O	34:61:133:HIS:ND1	2.53	0.41
35:58:76:SER:N	35:58:81:GLY:O	2.44	0.41
36:68:60:ALA:HB1	36:68:84:ALA:HB1	2.03	0.41
38:88:136:ALA:C	38:88:138:ASP:N	2.78	0.41
39:98:17:ARG:O	39:98:20:LEU:HB3	2.20	0.41
40:A8:7:TYR:HA	40:A8:10:ARG:CZ	2.49	0.41
40:A8:111:GLU:O	40:A8:112:PHE:HD1	2.01	0.41
47:H8:5:LEU:HD13	47:H8:6:LYS:HB2	2.03	0.41
47:H8:63:ASP:O	47:H8:64:GLY:C	2.63	0.41
49:J8:78:LYS:N	49:J8:78:LYS:CD	2.83	0.41
50:K8:5:GLU:C	50:K8:7:ARG:N	2.77	0.41
50:K8:64:LEU:O	50:K8:68:ARG:HG3	2.20	0.41
54:P8:35:ARG:HG3	54:P8:42:LEU:HD11	2.01	0.41
1:1G:111:G:C8	1:1G:111:G:O5'	2.72	0.41
1:1G:742:G:OP1	15:6A:35:ARG:NH2	2.53	0.41
1:1G:779:C:H2'	1:1G:780:A:O4'	2.20	0.41
1:1G:1125:U:H2'	1:1G:1126:U:C6	2.55	0.41
1:1G:1129:C:N3	1:1G:1143:G:N2	2.68	0.41
2:12:93:VAL:HG22	2:12:152:PHE:HB2	2.02	0.41
8:72:45:ILE:HG13	8:72:47:GLY:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1A:59:SER:O	10:1A:59:SER:OG	2.33	0.41
15:6A:27:VAL:HG12	15:6A:31:LEU:HD13	2.02	0.41
17:8A:45:HIS:HB3	17:8A:72:ARG:HG2	2.03	0.41
57:3L:29:U:H2'	57:3L:30:G:O4'	2.20	0.41
26:14:252:G:OP2	37:35:50:ARG:NH2	2.50	0.41
26:14:513:A:C2	26:14:514:A:C4	3.08	0.41
26:14:629:G:C6	26:14:630:G:C6	3.08	0.41
26:14:1496:A:H2'	26:14:1498:C:C5	2.56	0.41
32:49:48:GLU:HG2	32:49:86:MET:HE2	2.02	0.41
32:49:118:ARG:HD3	32:49:118:ARG:HA	1.87	0.41
34:69:57:ARG:O	34:69:60:GLU:HG2	2.20	0.41
34:69:58:LEU:HD23	34:69:59:ALA:N	2.34	0.41
36:25:15:GLY:O	36:25:47:ILE:HB	2.20	0.41
43:95:20:LEU:HA	43:95:20:LEU:HD12	1.74	0.41
46:C5:89:PHE:O	46:C5:90:LEU:HB2	2.20	0.41
50:G5:15:LYS:HA	50:G5:67:LYS:HZ2	1.85	0.41
1:13:177:C:O2'	1:13:178:C:H5'	2.19	0.41
1:13:232:G:C5	1:13:233:C:C5	3.08	0.41
1:13:524:G:H2'	1:13:525:C:C5	2.55	0.41
1:13:583:A:H2'	1:13:584:G:O4'	2.21	0.41
1:13:626:U:N3	1:13:627:G:C5	2.88	0.41
1:13:660:G:H2'	1:13:661:G:O4'	2.20	0.41
1:13:773:G:H5'	1:13:774:G:OP2	2.21	0.41
1:13:807:A:H2'	1:13:808:C:H6	1.84	0.41
1:13:818:G:O2'	1:13:819:A:H5'	2.21	0.41
2:1E:32:ILE:HD13	2:1E:40:HIS:ND1	2.36	0.41
2:1E:87:ARG:HH21	2:1E:232:PRO:HD3	1.85	0.41
4:3E:155:LEU:HD23	4:3E:155:LEU:HA	1.78	0.41
7:6E:78:ARG:HG2	7:6E:79:ARG:N	2.35	0.41
8:7E:17:THR:O	8:7E:20:TYR:N	2.52	0.41
12:3I:117:ARG:CB	12:3I:122:THR:HB	2.46	0.41
16:7I:21:VAL:HG22	16:7I:34:GLU:O	2.20	0.41
18:9I:23:LYS:NZ	18:9I:62:GLU:OE1	2.32	0.41
26:1H:66:C:H2'	26:1H:67:U:C6	2.55	0.41
26:1H:451:C:H4'	31:31:52:LYS:HE3	2.02	0.41
26:1H:744:G:H1	26:1H:753:C:N4	2.17	0.41
26:1H:831:G:P	61:1H:3583:HOH:O	2.78	0.41
26:1H:1152:C:O2'	26:1H:1153:C:H5'	2.20	0.41
26:1H:1637:A:H4'	26:1H:2711:A:O2'	2.20	0.41
26:1H:1643:G:C6	26:1H:1644:C:C5	3.08	0.41
26:1H:1997:G:H5''	30:21:117:MET:CE	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2016:U:H6	26:1H:2016:U:O5'	2.02	0.41
26:1H:2171:A:O2'	26:1H:2172:U:O5'	2.38	0.41
26:1H:2179:C:H2'	26:1H:2180:U:O4'	2.20	0.41
26:1H:2228:G:OP2	29:11:263:ARG:NH2	2.53	0.41
26:1H:2510:C:C4	26:1H:2511:U:C4	3.09	0.41
27:16:6:C:H2'	27:16:7:G:O4'	2.20	0.41
29:11:260:ARG:HH22	29:11:266:SER:HB3	1.85	0.41
31:31:32:LEU:O	31:31:36:VAL:HG23	2.21	0.41
33:51:35:VAL:HG12	33:51:37:VAL:HG23	2.02	0.41
36:68:6:THR:HG22	36:68:7:TYR:O	2.20	0.41
36:68:14:THR:O	36:68:52:VAL:HG22	2.20	0.41
36:68:44:LYS:HA	36:68:44:LYS:HD3	1.73	0.41
37:78:58:THR:O	37:78:62:LEU:HG	2.21	0.41
37:78:95:VAL:HG11	37:78:125:VAL:HG22	2.02	0.41
41:B8:130:ALA:HB1	41:B8:134:GLU:OE1	2.21	0.41
44:E8:1:MET:C	44:E8:64:MET:HE1	2.44	0.41
45:F8:25:LYS:CG	45:F8:82:GLN:OE1	2.67	0.41
1:1G:44:G:N2	1:1G:399:G:C4	2.88	0.41
1:1G:195:A:H62	1:1G:196:A:N6	2.18	0.41
1:1G:1329:A:H5''	13:4A:25:ILE:O	2.20	0.41
3:22:95:THR:HB	3:22:97:LYS:HG2	2.03	0.41
4:32:73:ARG:HD2	4:32:73:ARG:HA	1.67	0.41
5:42:60:TYR:HD1	5:42:64:ARG:HH12	1.68	0.41
12:3A:117:ARG:HE	12:3A:123:LYS:C	2.28	0.41
18:9A:23:LYS:HB3	18:9A:56:THR:O	2.20	0.41
56:1L:51:A:H2'	56:1L:52:G:C8	2.55	0.41
56:1L:74:C:N3	26:14:2555:U:O2	2.53	0.41
57:3L:37:A:H2'	57:3L:38:A:C8	2.55	0.41
26:14:189:G:H1	26:14:205:G:HO2'	1.67	0.41
26:14:242:G:O5'	55:M5:3:LYS:HE3	2.21	0.41
26:14:618(A):C:OP2	31:39:103:LYS:HE3	2.19	0.41
26:14:911:A:H2'	38:45:9:TYR:OH	2.20	0.41
26:14:1511:A:H2'	26:14:1512:G:C8	2.56	0.41
26:14:1534:G:H4'	26:14:1535:U:OP2	2.20	0.41
26:14:1774:C:O5'	26:14:1774:C:H6	2.02	0.41
26:14:2051:A:OP2	26:14:2051:A:H8	2.04	0.41
26:14:2146:C:H4'	26:14:2147:G:C8	2.55	0.41
26:14:2299:G:C6	26:14:2318:G:C8	3.09	0.41
26:14:2817:G:C4	26:14:2830:G:N2	2.89	0.41
27:1J:28:C:N4	27:1J:56:G:H1	2.06	0.41
29:19:146:GLU:CB	29:19:189:CYS:HB3	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:80:PHE:O	32:49:81:LYS:C	2.62	0.41
32:49:91:ARG:HE	32:49:91:ARG:HB3	1.43	0.41
32:49:94:LEU:HD23	32:49:94:LEU:HA	1.83	0.41
37:35:124:LYS:HG2	37:35:144:GLU:HA	2.03	0.41
38:45:66:ILE:HG22	38:45:104:PHE:CE1	2.55	0.41
41:75:27:THR:HG23	41:75:90:GLN:H	1.86	0.41
41:75:95:ARG:HD2	41:75:95:ARG:HA	1.92	0.41
42:85:8:VAL:O	42:85:12:ARG:HG3	2.21	0.41
46:C5:85:VAL:HB	46:C5:86:ARG:H	1.61	0.41
47:D5:52:SER:O	47:D5:53:ILE:HG12	2.20	0.41
49:F5:11:ARG:HB3	49:F5:11:ARG:NH1	2.34	0.41
50:G5:25:VAL:O	50:G5:28:LYS:N	2.54	0.41
1:13:104:G:C2	1:13:105:G:N7	2.88	0.41
1:13:177:C:H2'	1:13:178:C:C6	2.56	0.41
1:13:580:U:OP1	15:6I:54:ARG:NH2	2.53	0.41
1:13:815:A:O2'	1:13:1527:C:H1'	2.20	0.41
1:13:926:G:N2	25:4K:15:A:OP2	2.51	0.41
1:13:1226:C:O3'	13:4I:111:LYS:NZ	2.51	0.41
1:13:1264:C:C2	1:13:1272:G:C2	3.09	0.41
1:13:1284:C:H2'	1:13:1285:A:N7	2.35	0.41
1:13:1348:U:N3	1:13:1349:A:N7	2.69	0.41
1:13:1448:C:N3	1:13:1455:G:N2	2.65	0.41
7:6E:50:ILE:HD11	7:6E:124:LEU:HB3	2.02	0.41
8:7E:87:SER:HB3	8:7E:133:LEU:O	2.20	0.41
13:4I:81:LEU:HA	13:4I:81:LEU:HD23	1.67	0.41
14:5I:10:ALA:HA	14:5I:13:THR:HG23	2.03	0.41
17:8I:20:THR:HA	17:8I:42:TYR:O	2.21	0.41
25:4K:18:G:C4'	25:4K:19:A:OP2	2.69	0.41
26:1H:8:A:H2'	26:1H:9:U:C6	2.55	0.41
26:1H:270(M):U:H2'	26:1H:270(N):G:H5''	2.02	0.41
26:1H:537:C:H2'	26:1H:539:G:C8	2.56	0.41
26:1H:612:G:H2'	26:1H:613:U:O2	2.20	0.41
26:1H:987:G:C2'	26:1H:988:A:H5'	2.51	0.41
26:1H:1249:U:H2'	37:78:18:ARG:HH12	1.86	0.41
26:1H:1650:G:N2	26:1H:2008:C:C2	2.88	0.41
26:1H:1655:A:C8	26:1H:1656:C:C5	3.08	0.41
26:1H:1753:G:C2	26:1H:1756:G:C2	3.09	0.41
26:1H:1965:C:H3'	26:1H:1966:A:H2'	2.02	0.41
26:1H:2018:G:H2'	26:1H:2019:A:C8	2.55	0.41
26:1H:2038:G:C5	26:1H:2039:C:C5	3.09	0.41
26:1H:2068:U:O4	26:1H:2430:A:H2	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2137:C:H42	26:1H:2154:G:H22	1.68	0.41
26:1H:2199:A:C5	26:1H:2205:C:C5	3.08	0.41
26:1H:2431:U:O2	26:1H:2433:A:C8	2.74	0.41
26:1H:2506:U:O2	26:1H:2506:U:H2'	2.20	0.41
26:1H:2749:A:OP1	33:51:4:ILE:HD11	2.20	0.41
26:1H:2855:C:O2'	26:1H:2856:C:H5'	2.21	0.41
26:1H:2873:A:C2	39:98:5:LYS:HB2	2.56	0.41
27:16:90:C:OP1	38:88:16:ARG:HB3	2.20	0.41
29:11:50:THR:O	29:11:51:VAL:HG23	2.21	0.41
30:21:165:VAL:O	30:21:189:PRO:HG2	2.20	0.41
32:41:16:ARG:O	32:41:20:ILE:HG13	2.21	0.41
36:68:64:ARG:O	36:68:82:ASN:HA	2.19	0.41
37:78:26:GLY:HA2	61:78:303:HOH:O	2.19	0.41
38:88:43:THR:HG22	38:88:94:VAL:HG12	2.01	0.41
46:G8:87:LYS:HB2	46:G8:96:ILE:HD13	2.03	0.41
49:J8:87:PRO:O	49:J8:91:LYS:HB2	2.20	0.41
55:Q8:4:MET:HB2	55:Q8:4:MET:HE3	1.81	0.41
55:Q8:17:THR:CG2	55:Q8:23:VAL:HG21	2.50	0.41
1:1G:136:C:H42	1:1G:227:G:H1	1.67	0.41
1:1G:186(F):C:H5''	1:1G:187:C:OP2	2.21	0.41
1:1G:334:C:H2'	1:1G:335:C:C6	2.55	0.41
1:1G:972:C:H4'	10:1A:57:LYS:HG3	2.01	0.41
1:1G:984:C:N3	1:1G:1221:G:N2	2.54	0.41
1:1G:1346:A:C8	1:1G:1348:U:C2	3.08	0.41
1:1G:1349:A:P	9:82:118:LYS:HZ1	2.43	0.41
1:1G:1431:C:H2'	1:1G:1432:G:O4'	2.20	0.41
2:12:91:PRO:HB3	2:12:151:GLY:O	2.20	0.41
3:22:120:VAL:HG21	3:22:137:ALA:HB1	2.02	0.41
11:2A:22:HIS:HB3	11:2A:29:ILE:HG12	2.01	0.41
13:4A:108:ARG:HA	13:4A:111:LYS:HB2	2.02	0.41
15:6A:27:VAL:O	15:6A:31:LEU:HD13	2.20	0.41
17:8A:21:VAL:O	17:8A:41:LYS:HA	2.20	0.41
21:1B:6:ARG:HD3	21:1B:15:ARG:NH1	2.36	0.41
56:1L:74:C:N3	26:14:2555:U:C2	2.88	0.41
23:2L:64:G:C2	23:2L:65:G:C5	3.09	0.41
26:14:71:A:C6	26:14:73:A:N1	2.88	0.41
26:14:304:G:C2	26:14:305:U:C2	3.09	0.41
26:14:741:G:H2'	26:14:742:G:C8	2.55	0.41
26:14:815:C:O2	26:14:1193:G:N2	2.53	0.41
26:14:1551:C:C4	26:14:1552:G:C5	3.09	0.41
26:14:1802:A:OP1	26:14:1814:G:N1	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1830:C:H6	26:14:1830:C:O5'	2.04	0.41
26:14:2038:G:H2'	26:14:2039:C:C6	2.56	0.41
26:14:2058:A:H5''	26:14:2059:A:OP2	2.21	0.41
26:14:2065:C:H2'	26:14:2066:C:C6	2.55	0.41
26:14:2467:C:H4'	38:45:123:HIS:NE2	2.35	0.41
26:14:2545:G:O5'	26:14:2545:G:H8	2.04	0.41
27:1J:63:G:N2	27:1J:64:C:O2	2.54	0.41
27:1J:87:G:H3'	27:1J:88:C:O4'	2.20	0.41
27:1J:93:C:H2'	27:1J:94:C:H6	1.86	0.41
35:15:133:GLN:C	35:15:134:ARG:HE	2.28	0.41
38:45:58:PHE:O	38:45:58:PHE:CD1	2.74	0.41
46:C5:12:THR:O	46:C5:75:ILE:HB	2.20	0.41
47:D5:3:TYR:O	47:D5:58:VAL:HG23	2.21	0.41
49:F5:76:ARG:HB2	49:F5:94:LEU:HD11	2.03	0.41
1:13:106:C:O2'	1:13:107:G:H5'	2.21	0.41
1:13:172:A:H5'	1:13:173:U:P	2.60	0.41
1:13:562:C:O4'	1:13:563:A:C2	2.74	0.41
1:13:1374:A:O2'	7:6E:28:ASN:HB3	2.19	0.41
3:2E:178:LEU:HD13	3:2E:178:LEU:HA	1.85	0.41
4:3E:68:TYR:CE1	4:3E:97:LEU:HD13	2.55	0.41
4:3E:175:SER:O	4:3E:183:GLY:HA2	2.20	0.41
5:4E:144:THR:HG22	5:4E:145:LYS:H	1.86	0.41
6:5E:24:GLU:HG2	6:5E:28:ARG:CZ	2.51	0.41
9:8E:49:PRO:HB2	9:8E:85:LEU:HD12	2.02	0.41
10:1I:54:PHE:CD2	10:1I:55:LYS:HG2	2.55	0.41
10:1I:57:LYS:HE2	10:1I:60:ARG:HH22	1.86	0.41
16:7I:12:LYS:O	16:7I:13:HIS:HB2	2.20	0.41
24:3K:22:G:C5	24:3K:23:A:N7	2.89	0.41
26:1H:82:G:N2	26:1H:103:A:OP2	2.41	0.41
26:1H:104:U:C5	26:1H:105:C:C4	3.09	0.41
26:1H:235:U:H5''	26:1H:236:C:OP2	2.21	0.41
26:1H:289:A:H61	26:1H:351:G:H1'	1.85	0.41
26:1H:363(F):A:H4'	26:1H:364:C:H5'	2.01	0.41
26:1H:370:G:H5''	26:1H:423:A:N6	2.35	0.41
26:1H:438:G:H2'	26:1H:439:G:C8	2.55	0.41
26:1H:458:G:C8	54:P8:37:LYS:HG2	2.56	0.41
26:1H:631:A:OP2	55:Q8:47:LYS:NZ	2.54	0.41
26:1H:748:G:O6	26:1H:751:A:H5''	2.21	0.41
26:1H:757:U:H2'	26:1H:758:C:H6	1.85	0.41
26:1H:860:U:C5	26:1H:917:A:H2	2.37	0.41
26:1H:868:U:O2'	38:88:8:LYS:HE3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1635:G:H2'	26:1H:1635:G:N3	2.35	0.41
26:1H:1838:C:C2	26:1H:1898:U:C4	3.08	0.41
26:1H:2345:G:H4'	26:1H:2346:A:O5'	2.20	0.41
26:1H:2348:U:H2'	26:1H:2349:G:H5'	2.02	0.41
26:1H:2654:A:N1	26:1H:2665:A:H5'	2.36	0.41
30:21:53:PRO:C	30:21:74:PRO:HA	2.45	0.41
31:31:20:LEU:HD12	31:31:21:ALA:H	1.85	0.41
32:41:103:LEU:HA	32:41:103:LEU:HD23	1.85	0.41
35:58:18:ALA:HB3	35:58:56:ASN:O	2.21	0.41
35:58:67:LEU:HD23	35:58:87:LEU:CD1	2.51	0.41
35:58:75:TYR:HA	35:58:81:GLY:O	2.20	0.41
40:A8:87:PHE:CE2	40:A8:89:ARG:HB3	2.55	0.41
43:D8:21:ARG:CG	43:D8:91:TYR:CE2	2.95	0.41
45:F8:14:SER:O	45:F8:15:GLU:C	2.62	0.41
52:M8:9:LEU:H	52:M8:27:THR:HB	1.86	0.41
55:Q8:57:ARG:O	55:Q8:58:ILE:C	2.64	0.41
1:1G:67:C:H2'	1:1G:68:G:H8	1.81	0.41
1:1G:253:U:O2	1:1G:275:G:O2'	2.26	0.41
1:1G:395:C:H2'	1:1G:396:G:C8	2.56	0.41
1:1G:428:G:C8	1:1G:430:A:C4	3.09	0.41
1:1G:628:G:C2	1:1G:629:G:C4	3.09	0.41
1:1G:666:G:H5'	1:1G:726:C:H1'	2.02	0.41
1:1G:1166:G:H1'	1:1G:1171:G:H22	1.85	0.41
1:1G:1280:A:H5'	1:1G:1281:U:OP2	2.20	0.41
3:22:51:GLY:O	3:22:70:VAL:HG13	2.20	0.41
4:32:81:GLU:HB3	4:32:96:LEU:HD11	2.02	0.41
4:32:193:ASP:OD1	4:32:193:ASP:N	2.53	0.41
8:72:30:ARG:HG2	8:72:31:PHE:H	1.86	0.41
8:72:41:ARG:HE	8:72:41:ARG:HB2	1.50	0.41
12:3A:52:LEU:HD12	12:3A:54:LYS:NZ	2.34	0.41
13:4A:55:ARG:NH2	13:4A:56:LEU:HB2	2.35	0.41
15:6A:18:PHE:CZ	15:6A:21:ASP:HB2	2.56	0.41
20:BA:45:GLN:HA	20:BA:91:LEU:HB3	2.02	0.41
23:2L:25:U:O2'	26:14:1923:U:H5''	2.21	0.41
23:2L:53:G:O5'	23:2L:53:G:H8	2.04	0.41
26:14:27:G:C4	26:14:512:G:N2	2.88	0.41
26:14:138:G:N2	45:B5:44:GLU:OE2	2.37	0.41
26:14:139:G:H5''	26:14:139:G:C8	2.54	0.41
26:14:196:A:H2'	26:14:196:A:N3	2.35	0.41
26:14:263:C:O2'	26:14:429:A:N3	2.50	0.41
26:14:553:U:C4	26:14:554:U:O4	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1052:C:N4	26:14:1107:G:H1	2.17	0.41
26:14:1167:U:C2	26:14:1183:G:N2	2.89	0.41
26:14:1319:G:C6	26:14:1320:C:N4	2.88	0.41
26:14:1488:G:C5	26:14:1489:U:C6	3.09	0.41
26:14:1906:G:C2	26:14:1925:C:O2	2.74	0.41
26:14:1992:G:C2	26:14:1997:G:C5	3.08	0.41
26:14:2256:G:C4	26:14:2257:U:C6	3.09	0.41
29:19:118:VAL:N	29:19:129:ASN:OD1	2.52	0.41
32:49:37:VAL:HG23	32:49:99:MET:HE3	2.01	0.41
35:15:133:GLN:HB3	35:15:135:PRO:HD3	2.02	0.41
36:25:1:MET:HB3	36:25:1:MET:HE2	1.68	0.41
37:35:115:LEU:HD22	37:35:131:SER:HB2	2.02	0.41
38:45:25:ASP:HA	38:45:67:ARG:NH1	2.36	0.41
55:M5:25:MET:O	55:M5:48:PHE:HE1	2.04	0.41
1:13:146:G:C2	1:13:147:G:C4	3.08	0.41
1:13:872:A:C4	1:13:874:G:N7	2.89	0.41
1:13:1132:C:H2'	1:13:1133:G:C8	2.48	0.41
1:13:1162:C:H2'	1:13:1163:C:C6	2.55	0.41
1:13:1261:A:H3'	1:13:1262:C:H6	1.86	0.41
1:13:1422:G:H4'	36:68:49:ARG:NH1	2.36	0.41
2:1E:36:ARG:C	2:1E:38:GLY:H	2.28	0.41
3:2E:134:ILE:HD13	3:2E:134:ILE:HA	1.71	0.41
4:3E:61:LYS:NZ	4:3E:62:GLN:OE1	2.26	0.41
4:3E:62:GLN:O	4:3E:66:ARG:HB2	2.20	0.41
5:4E:37:ARG:HA	5:4E:113:ALA:HA	2.02	0.41
9:8E:7:THR:O	9:8E:83:ARG:HD2	2.21	0.41
11:2I:31:THR:HG22	11:2I:42:TRP:HB3	2.03	0.41
12:3I:30:ALA:HB1	12:3I:31:PRO:HD2	2.02	0.41
15:6I:27:VAL:O	15:6I:31:LEU:HD13	2.20	0.41
17:8I:76:LEU:HD12	17:8I:76:LEU:HA	1.77	0.41
22:1K:18:G:C2	22:1K:57:G:N2	2.89	0.41
22:1K:44:U:OP2	22:1K:48:C:N4	2.53	0.41
26:1H:11:G:C3'	26:1H:12:U:H5'	2.51	0.41
26:1H:117:G:C6	26:1H:119:A:N6	2.89	0.41
26:1H:242:G:H5''	55:Q8:64:TYR:CZ	2.56	0.41
26:1H:270(T):G:C6	26:1H:270(U):C:C4	3.07	0.41
26:1H:271(C):U:O4	26:1H:272:G:H5''	2.20	0.41
26:1H:753:C:H2'	26:1H:754:C:H6	1.82	0.41
26:1H:784:A:H5'	26:1H:785:G:OP1	2.21	0.41
26:1H:820:A:H2'	26:1H:821:A:O4'	2.21	0.41
26:1H:991:C:OP2	26:1H:1186:G:OP2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1026:U:H4'	26:1H:1027:A:OP1	2.20	0.41
26:1H:1327:C:N4	26:1H:1328:G:C6	2.89	0.41
26:1H:1331:A:O2'	26:1H:1332:G:H8	2.03	0.41
26:1H:1827:C:C3'	26:1H:1828:G:H5'	2.49	0.41
26:1H:2176:A:O2'	28:71:44:HIS:CE1	2.71	0.41
26:1H:2282:G:OP1	26:1H:2283:C:H1'	2.20	0.41
27:16:7:G:O5'	40:A8:29:PHE:CE2	2.73	0.41
27:16:12:C:C2	48:I8:74:ARG:NH1	2.88	0.41
32:41:67:LYS:NZ	52:M8:6:HIS:CD2	2.89	0.41
32:41:113:ARG:HD3	32:41:140:ILE:O	2.19	0.41
35:58:104:LYS:HB2	35:58:117:PHE:CD1	2.56	0.41
35:58:114:ARG:HH11	35:58:114:ARG:HD2	1.73	0.41
41:B8:50:ILE:HA	41:B8:99:LEU:HD12	2.01	0.41
44:E8:96:ILE:HG21	44:E8:96:ILE:HD13	1.75	0.41
45:F8:50:LYS:O	45:F8:83:VAL:HA	2.20	0.41
46:G8:83:THR:HG22	46:G8:84:ARG:HG2	2.01	0.41
48:I8:50:ASN:C	48:I8:62:LEU:HD12	2.46	0.41
1:1G:103:C:P	20:BA:17:ARG:HH21	2.43	0.41
1:1G:243:A:C2	1:1G:246:A:C8	3.09	0.41
1:1G:430:A:C4	1:1G:431:A:C8	3.08	0.41
1:1G:552:U:H1'	12:3A:32:PHE:CZ	2.56	0.41
1:1G:630:G:C3'	1:1G:631:G:H5'	2.51	0.41
1:1G:747:C:C5	1:1G:748:C:C4	3.08	0.41
1:1G:949:A:H61	1:1G:1232:U:H3	1.68	0.41
1:1G:1330:U:O2'	13:4A:23:TYR:OH	2.36	0.41
1:1G:1517:G:C5	1:1G:1518:A:N7	2.89	0.41
2:12:186:ALA:O	2:12:201:ILE:HB	2.21	0.41
3:22:5:ILE:HG21	10:1A:51:ARG:HH22	1.86	0.41
3:22:18:TRP:HB2	3:22:21:ARG:HE	1.85	0.41
4:32:8:VAL:CG2	4:32:115:ARG:HH12	2.33	0.41
7:62:36:LYS:O	7:62:39:ALA:N	2.53	0.41
8:72:13:ILE:HG22	8:72:14:ARG:N	2.36	0.41
9:82:85:LEU:C	9:82:85:LEU:HD12	2.45	0.41
13:4A:116:THR:HG22	13:4A:116:THR:O	2.20	0.41
17:8A:5:VAL:HG22	17:8A:60:ILE:HD13	2.01	0.41
19:AA:56:GLN:CD	19:AA:59:PRO:HD3	2.46	0.41
56:1L:24:G:C2	56:1L:25:C:C4	3.08	0.41
56:1L:68:G:H2'	56:1L:69:A:C8	2.56	0.41
23:2L:50:G:C2	23:2L:51:U:H1'	2.56	0.41
26:14:76:C:O2'	26:14:77:C:H5'	2.21	0.41
26:14:268:C:H2'	26:14:269:U:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:540:G:H2'	26:14:541:C:H6	1.85	0.41
26:14:960:A:C8	26:14:962:G:C8	3.08	0.41
26:14:1011:G:C2	26:14:1013:C:C2	3.09	0.41
26:14:1358:G:N2	26:14:1372:U:C5	2.89	0.41
26:14:2299:G:N1	26:14:2318:G:C8	2.89	0.41
26:14:2399:G:N1	26:14:2417:C:N3	2.47	0.41
26:14:2563:U:O2	26:14:2565:A:C8	2.74	0.41
29:19:6:PHE:CE1	29:19:18:VAL:HG23	2.56	0.41
29:19:67:PHE:HB3	29:19:153:ALA:H	1.85	0.41
29:19:93:ALA:N	29:19:105:ILE:O	2.43	0.41
30:29:57:LYS:HA	30:29:57:LYS:HD3	1.84	0.41
34:69:130:TYR:HB3	34:69:136:VAL:CG1	2.50	0.41
37:35:84:ASN:ND2	37:35:117:GLU:H	2.19	0.41
39:55:57:ARG:HH21	39:55:59:ASP:CG	2.28	0.41
39:55:81:ASP:O	39:55:82:GLU:HG2	2.21	0.41
44:A5:5:ALA:HB3	44:A5:54:ALA:HB2	2.02	0.41
44:A5:73:ALA:HB3	44:A5:106:ILE:HD11	2.03	0.41
45:B5:31:HIS:CE1	45:B5:33:LYS:HB2	2.55	0.41
46:C5:42:VAL:HG12	46:C5:67:LEU:HD21	2.01	0.41
47:D5:85:HIS:CG	47:D5:86:VAL:N	2.88	0.41
48:E5:36:ILE:HD12	48:E5:58:THR:CG2	2.50	0.41
54:L5:34:ARG:NH1	54:L5:39:ARG:CG	2.83	0.41
1:13:191:G:C5	1:13:192:U:C4	3.08	0.41
1:13:278:G:N2	17:8I:95:TYR:HB3	2.36	0.41
1:13:457:C:O2'	1:13:458:C:H5'	2.20	0.41
1:13:580:U:C4	1:13:581:G:C5	3.08	0.41
1:13:647:C:H2'	1:13:648:A:H8	1.85	0.41
1:13:690:G:H1	11:2I:51:LYS:CE	2.30	0.41
1:13:724:G:N3	1:13:725:G:C8	2.88	0.41
1:13:959:A:C2	1:13:1222:G:O4'	2.74	0.41
1:13:1404:C:H6	1:13:1404:C:O5'	2.04	0.41
3:2E:56:ASP:O	3:2E:66:VAL:HA	2.20	0.41
8:7E:111:ILE:HB	8:7E:135:CYS:SG	2.61	0.41
15:6I:70:LEU:HD11	15:6I:77:ARG:HE	1.84	0.41
17:8I:28:PRO:HA	17:8I:34:LYS:O	2.20	0.41
22:1K:7:U:H3'	22:1K:13:C:C5	2.56	0.41
24:3K:5:C:H2'	24:3K:6:G:C1'	2.50	0.41
24:3K:61:C:H2'	24:3K:62:C:H6	1.85	0.41
26:1H:28:A:O2'	26:1H:29:U:H5'	2.21	0.41
26:1H:107:C:H2'	26:1H:108:U:H6	1.86	0.41
26:1H:155:C:H42	26:1H:171:G:H1	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:194:G:H2'	26:1H:195:A:O4'	2.20	0.41
26:1H:248:G:H5'	26:1H:250:G:N7	2.36	0.41
26:1H:1392:A:C5	26:1H:1393:A:C6	3.09	0.41
26:1H:1648:C:H42	26:1H:2009:G:H1	1.69	0.41
26:1H:2238:G:OP2	61:1H:3561:HOH:O	2.21	0.41
26:1H:2287:A:C2	26:1H:2346:A:H2	2.38	0.41
26:1H:2675:A:C5	26:1H:2676:C:C5	3.09	0.41
26:1H:2810:A:H2'	26:1H:2811:G:O4'	2.21	0.41
29:11:75:ILE:HG22	29:11:76:PRO:O	2.19	0.41
29:11:229:VAL:H	29:11:229:VAL:HG22	1.61	0.41
30:21:143:ASN:HB2	30:21:147:PRO:HD2	2.02	0.41
30:21:171:GLU:OE2	30:21:185:LYS:CE	2.69	0.41
34:61:90:GLY:O	34:61:121:LYS:HD2	2.20	0.41
34:61:136:VAL:HA	34:61:137:PRO:HD3	1.93	0.41
36:68:22:ILE:HD11	36:68:42:SER:HB2	2.02	0.41
40:A8:62:LYS:HB2	40:A8:97:ARG:HD2	2.02	0.41
41:B8:1:MET:O	41:B8:2:ASN:O	2.38	0.41
42:C8:39:LEU:HD23	42:C8:39:LEU:HA	1.83	0.41
45:F8:43:VAL:O	45:F8:44:GLU:C	2.64	0.41
45:F8:49:VAL:CG1	45:F8:50:LYS:N	2.84	0.41
46:G8:33:LYS:HB2	46:G8:33:LYS:HE2	1.26	0.41
49:J8:29:GLY:C	49:J8:31:GLY:H	2.28	0.41
50:K8:60:LEU:HD23	50:K8:60:LEU:HA	1.89	0.41
51:L8:26:LEU:HD21	51:L8:46:ASN:CB	2.50	0.41
1:1G:11:G:C5	1:1G:12:U:C5	3.09	0.41
1:1G:183:G:H8	1:1G:183:G:OP2	2.04	0.41
1:1G:458:C:N4	1:1G:464:G:C6	2.89	0.41
1:1G:858:G:C6	1:1G:869:G:C8	3.09	0.41
1:1G:958:A:H5''	1:1G:959:A:OP2	2.21	0.41
1:1G:1011:G:H1	1:1G:1018:C:N4	2.19	0.41
1:1G:1016:A:C6	1:1G:1017:G:H1'	2.55	0.41
1:1G:1068:G:N7	1:1G:1094:G:H8	2.19	0.41
1:1G:1072:G:C4	1:1G:1104:G:N2	2.88	0.41
1:1G:1330:U:H5'	13:4A:24:GLY:H	1.86	0.41
2:12:220:ASP:O	2:12:224:GLN:HG3	2.21	0.41
5:42:71:LEU:HD11	5:42:114:GLY:C	2.45	0.41
6:52:10:LEU:HD23	6:52:61:LEU:HD13	2.02	0.41
9:82:69:GLY:O	9:82:70:LYS:C	2.63	0.41
13:4A:32:GLU:O	13:4A:35:GLU:N	2.54	0.41
56:1L:23:A:H2'	56:1L:23:A:N3	2.36	0.41
57:3L:15:G:C4	57:3L:59:A:N1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:199:A:N6	26:14:2434:A:C5	2.89	0.41
26:14:233:A:H2'	26:14:234:C:H6	1.86	0.41
26:14:260:G:C5	26:14:261:G:C8	3.08	0.41
26:14:910:A:H2	26:14:2264:C:O2	2.03	0.41
26:14:977:G:H2'	26:14:978:G:H8	1.85	0.41
26:14:1013:C:N3	26:14:1149:G:N2	2.60	0.41
26:14:1374:G:H2'	26:14:1375:C:C6	2.55	0.41
26:14:1559:G:HO2'	26:14:1560:G:C5'	2.33	0.41
26:14:1919:A:H2'	26:14:1919:A:N3	2.36	0.41
26:14:2306:C:C2	26:14:2307:G:N2	2.88	0.41
27:1J:116:G:H2'	27:1J:117:G:O4'	2.20	0.41
29:19:64:ILE:HG21	29:19:64:ILE:HD13	1.75	0.41
29:19:102:LYS:C	29:19:103:ARG:HG2	2.46	0.41
30:29:61:ARG:HA	30:29:63:LEU:CD2	2.51	0.41
30:29:116:VAL:O	30:29:117:MET:HG2	2.20	0.41
31:39:57:VAL:HG13	31:39:59:TYR:HD1	1.86	0.41
31:39:114:VAL:H	31:39:114:VAL:HG22	1.62	0.41
32:49:129:GLY:C	32:49:130:ASN:CG	2.88	0.41
35:15:137:LYS:C	35:15:138:LEU:HD23	2.46	0.41
37:35:16:ARG:HD3	37:35:16:ARG:HA	1.87	0.41
37:35:75:ILE:H	37:35:75:ILE:HG12	1.56	0.41
38:45:21:THR:C	38:45:23:GLY:HA3	2.45	0.41
38:45:52:VAL:O	38:45:56:ARG:HB2	2.21	0.41
39:55:10:LEU:HD23	39:55:10:LEU:HA	1.77	0.41
42:85:28:ARG:NH1	42:85:38:THR:HG1	2.18	0.41
43:95:51:VAL:HG12	43:95:52:VAL:N	2.36	0.41
44:A5:35:ILE:HG23	53:J5:28:PRO:HD2	2.03	0.41
47:D5:126:VAL:HG12	47:D5:163:LEU:HA	2.01	0.41
1:13:138:G:H1	1:13:225:C:H42	1.69	0.41
1:13:199:G:H2'	1:13:200:G:C8	2.56	0.41
1:13:389:A:H2'	1:13:390:C:C5'	2.51	0.41
1:13:411:A:N7	1:13:413:G:C4	2.89	0.41
1:13:592:G:H2'	1:13:593:G:C8	2.55	0.41
1:13:619:U:C6	4:3E:135:LEU:HD21	2.56	0.41
1:13:781:A:H5'	1:13:782:A:OP2	2.21	0.41
1:13:827:U:C5	1:13:870:U:C4	3.09	0.41
1:13:827:U:O2	1:13:827:U:O5'	2.39	0.41
1:13:955:U:H6	1:13:955:U:O5'	2.04	0.41
1:13:1157:A:H8	1:13:1158:C:N4	2.18	0.41
1:13:1304:G:C6	1:13:1305:G:N1	2.89	0.41
1:13:1390:U:H2'	1:13:1391:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1396:A:H4'	1:13:1397:C:H5''	2.02	0.41
2:1E:80:ILE:HG12	2:1E:212:GLN:HB2	2.03	0.41
2:1E:100:GLY:HA2	2:1E:103:THR:OG1	2.21	0.41
3:2E:47:LEU:HB2	3:2E:52:LEU:HD13	2.02	0.41
3:2E:84:ILE:HA	3:2E:87:LEU:HD12	2.03	0.41
4:3E:107:ARG:NH1	4:3E:194:LEU:HD22	2.36	0.41
6:5E:33:TYR:HE2	6:5E:78:GLU:CB	2.34	0.41
6:5E:100:ASN:HB2	18:9I:27:GLY:O	2.20	0.41
7:6E:5:ARG:NH1	7:6E:7:ALA:HA	2.36	0.41
9:8E:41:VAL:C	9:8E:43:ALA:H	2.29	0.41
9:8E:100:GLY:C	9:8E:102:LEU:H	2.29	0.41
12:3I:85:ILE:HD12	12:3I:85:ILE:HG23	1.74	0.41
12:3I:113:ARG:HH21	12:3I:116:SER:HB2	1.86	0.41
13:4I:77:ASN:O	13:4I:81:LEU:N	2.49	0.41
13:4I:92:HIS:O	13:4I:93:ARG:C	2.63	0.41
13:4I:96:LEU:C	13:4I:110:ARG:HG2	2.46	0.41
14:5I:27:CYS:SG	14:5I:28:GLY:N	2.94	0.41
14:5I:58:LYS:HE2	14:5I:58:LYS:HB3	1.79	0.41
19:AI:11:VAL:HG13	19:AI:11:VAL:O	2.20	0.41
24:3K:45:G:O2'	24:3K:46:G:C8	2.72	0.41
26:1H:34:C:O4'	26:1H:34:C:P	2.79	0.41
26:1H:90:U:H6	26:1H:90:U:OP1	2.04	0.41
26:1H:117:G:N1	26:1H:119:A:N6	2.69	0.41
26:1H:198:C:O2'	26:1H:199:A:H5''	2.21	0.41
26:1H:273:G:H1	26:1H:364:C:N4	2.19	0.41
26:1H:390:A:C6	37:78:71:VAL:HG21	2.56	0.41
26:1H:580:C:O2'	26:1H:581:C:H5'	2.21	0.41
26:1H:654(B):C:H3'	26:1H:654(C):G:C8	2.55	0.41
26:1H:654(R):C:N4	26:1H:654(S):G:O6	2.54	0.41
26:1H:779:U:H5''	29:11:49:ILE:HD12	2.02	0.41
26:1H:833:U:O2	37:78:55:ARG:NH2	2.50	0.41
26:1H:910:A:H2	26:1H:2264:C:O2	2.04	0.41
26:1H:1157:G:N2	26:1H:1158:C:C2	2.89	0.41
26:1H:1213:A:N3	26:1H:1238:G:O2'	2.38	0.41
26:1H:1221:C:C2	26:1H:1222:C:C5	3.08	0.41
26:1H:1273:U:O2'	26:1H:1274:A:H5''	2.20	0.41
26:1H:1288:U:C2	26:1H:1327:C:O2	2.73	0.41
26:1H:1332:G:H8	26:1H:1332:G:H2'	1.69	0.41
26:1H:1332:G:N2	26:1H:1610:A:C8	2.86	0.41
26:1H:1388:G:O2'	26:1H:1389:G:H5'	2.21	0.41
26:1H:1397:U:P	26:1H:1398:C:H41	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1514:U:O2	26:1H:1514:U:H2'	2.21	0.41
26:1H:1537:C:N4	26:1H:1538:G:H21	2.14	0.41
26:1H:1599:C:P	45:F8:36:LYS:HB2	2.60	0.41
26:1H:1615:C:C5	26:1H:1617:C:C4	3.08	0.41
26:1H:1625:C:H5''	26:1H:1626:G:OP2	2.20	0.41
26:1H:1672:C:H2'	26:1H:1673:U:H5'	2.02	0.41
26:1H:1817:G:H2'	26:1H:1817:G:N3	2.35	0.41
26:1H:1818:U:OP2	29:11:157:ARG:NE	2.50	0.41
26:1H:1826:G:H4'	29:11:242:ARG:HE	1.85	0.41
26:1H:2059:A:H5''	31:31:71:GLY:CA	2.51	0.41
26:1H:2101:G:C6	26:1H:2102:U:C4	3.09	0.41
26:1H:2154:G:O2'	26:1H:2155:G:H5'	2.21	0.41
26:1H:2313:C:C5	26:1H:2314:C:H5	2.39	0.41
26:1H:2328:A:H2'	26:1H:2329:G:C8	2.55	0.41
26:1H:2334:G:H3'	26:1H:2335:A:H5'	2.03	0.41
26:1H:2378:A:O2'	40:A8:21:THR:HG21	2.21	0.41
27:16:44:G:HO2'	27:16:45:A:P	2.44	0.41
28:71:66:HIS:HE1	28:71:184:LYS:HD2	1.86	0.41
30:21:35:GLN:HB3	30:21:48:GLN:HB2	2.03	0.41
30:21:116:VAL:HG21	30:21:122:PHE:CE2	2.56	0.41
31:31:167:ALA:O	31:31:168:ARG:C	2.63	0.41
31:31:170:LEU:HB2	31:31:173:VAL:HB	2.03	0.41
31:31:176:LEU:HD21	31:31:180:GLY:C	2.45	0.41
32:41:26:GLN:HG3	32:41:27:ASN:N	2.36	0.41
35:58:35:ARG:HB2	35:58:37:LYS:HG3	2.02	0.41
35:58:71:ILE:HG21	35:58:84:LYS:HB3	2.02	0.41
37:78:89:ALA:HA	37:78:121:LYS:HD3	2.02	0.41
42:C8:79:PHE:O	42:C8:79:PHE:HD1	2.04	0.41
44:E8:57:ASN:O	44:E8:62:HIS:CD2	2.74	0.41
46:G8:90:LEU:HA	46:G8:91:GLU:HA	1.77	0.41
47:H8:58:VAL:O	47:H8:60:GLU:N	2.53	0.41
47:H8:151:HIS:HD1	47:H8:170:THR:HG23	1.85	0.41
50:K8:15:LYS:HZ2	50:K8:15:LYS:HG2	1.55	0.41
53:N8:40:LYS:HG2	53:N8:46:CYS:CA	2.46	0.41
53:N8:42:PRO:O	53:N8:44:THR:N	2.54	0.41
1:1G:115:G:C2	1:1G:289:G:N7	2.88	0.41
1:1G:137:C:C2	1:1G:227:G:N2	2.89	0.41
1:1G:186(C):G:C6	1:1G:186(D):C:C4	3.08	0.41
1:1G:195:A:H4'	20:BA:68:LYS:HE3	2.03	0.41
1:1G:456:C:H2'	1:1G:457:C:C6	2.56	0.41
1:1G:557:G:C6	1:1G:558:G:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:746:A:OP2	1:1G:746:A:H8	2.04	0.41
1:1G:807:A:C5	1:1G:808:C:C4	3.09	0.41
1:1G:862:C:C2'	1:1G:863:U:H5'	2.50	0.41
1:1G:1090:U:H2'	1:1G:1091:U:C5	2.55	0.41
1:1G:1312:G:O2'	1:1G:1313:U:H5'	2.20	0.41
1:1G:1316:G:H5''	14:5A:17:LYS:HZ1	1.80	0.41
1:1G:1316:G:N2	1:1G:1319:A:H8	2.18	0.41
1:1G:1355:G:H1	1:1G:1367:C:H42	1.68	0.41
2:12:75:LYS:CA	2:12:78:GLN:HB2	2.32	0.41
2:12:220:ASP:O	2:12:223:ILE:HG22	2.21	0.41
3:22:50:ALA:HB2	3:22:75:VAL:HG12	2.03	0.41
3:22:111:LEU:HD23	3:22:146:ALA:HB2	2.03	0.41
3:22:191:THR:HG21	3:22:193:TYR:CZ	2.55	0.41
4:32:53:ASP:OD2	5:42:107:ARG:NH2	2.53	0.41
5:42:12:LEU:CD1	5:42:14:ARG:HG2	2.50	0.41
5:42:71:LEU:HD22	5:42:74:GLY:HA2	2.02	0.41
6:52:7:ASN:OD1	6:52:7:ASN:N	2.53	0.41
6:52:67:MET:HB2	6:52:68:PRO:HD2	2.03	0.41
7:62:72:ARG:HG2	7:62:138:LYS:NZ	2.36	0.41
8:72:30:ARG:HG2	8:72:31:PHE:N	2.36	0.41
9:82:65:VAL:HG11	9:82:77:ILE:HD11	2.02	0.41
10:1A:17:ASP:OD1	10:1A:18:ALA:N	2.54	0.41
11:2A:33:THR:HG22	11:2A:39:PRO:HA	2.03	0.41
12:3A:34:ARG:HH11	12:3A:34:ARG:HD2	1.71	0.41
16:7A:1:MET:HE3	16:7A:1:MET:HB2	1.42	0.41
20:BA:26:ASN:O	20:BA:30:LYS:HB2	2.21	0.41
56:1L:75:C:O2'	26:14:2507:C:H4'	2.21	0.41
26:14:61:G:H5'	50:G5:50:ILE:HG12	2.03	0.41
26:14:141:A:C8	26:14:1408:C:H1'	2.56	0.41
26:14:219:G:H2'	26:14:220:G:C8	2.56	0.41
26:14:273(C):C:H5'	26:14:273(D):C:OP2	2.20	0.41
26:14:519:U:H2'	26:14:520:G:C8	2.56	0.41
26:14:541:C:H2'	26:14:542:C:C6	2.56	0.41
26:14:548:A:N6	26:14:549:G:C2	2.89	0.41
26:14:723:G:H2'	26:14:724:U:C6	2.56	0.41
26:14:751:A:H5'	44:A5:90:ARG:CA	2.42	0.41
26:14:917:A:C2'	26:14:918:A:O5'	2.69	0.41
26:14:937:U:H2'	26:14:938:G:O4'	2.21	0.41
26:14:957:A:N1	26:14:2459:A:H8	2.19	0.41
26:14:995:C:N4	35:15:2:LYS:HG3	2.36	0.41
26:14:1015:G:C6	26:14:1148:A:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1149:G:C2	26:14:1150:C:C4	3.09	0.41
26:14:1445:C:H2'	26:14:1446:C:C6	2.55	0.41
26:14:1475:G:N2	26:14:1476:C:O2	2.54	0.41
26:14:1532:C:N4	26:14:1539:G:H1	2.18	0.41
26:14:1635:G:H2'	26:14:1636:C:C6	2.56	0.41
26:14:1815:A:O3'	29:19:39:LYS:NZ	2.52	0.41
26:14:1870:C:H2'	26:14:1871:A:C8	2.56	0.41
26:14:2061:G:C2	26:14:2063:C:C4	3.09	0.41
26:14:2134:A:C5	26:14:2158:A:C8	3.09	0.41
26:14:2187:G:C5	26:14:2188:C:C4	3.08	0.41
26:14:2238:G:H2'	26:14:2238:G:N3	2.35	0.41
26:14:2308:G:O6	26:14:2311:A:C2	2.74	0.41
26:14:2328:A:H2'	26:14:2329:G:O4'	2.21	0.41
26:14:2408:U:H2'	26:14:2409:G:C8	2.56	0.41
26:14:2463:C:O5'	26:14:2463:C:H6	2.04	0.41
26:14:2687:U:C4	26:14:2688:U:C5	3.09	0.41
27:1J:62:C:H2'	27:1J:63:G:H8	1.86	0.41
27:1J:73:A:C8	27:1J:103:U:O4	2.74	0.41
29:19:10:THR:HB	29:19:11:PRO:HD2	2.03	0.41
29:19:70:TRP:CE2	29:19:150:LYS:HD3	2.56	0.41
29:19:77:ALA:HB2	29:19:97:TYR:CD2	2.55	0.41
29:19:97:TYR:HB2	29:19:101:GLU:O	2.21	0.41
32:49:32:PRO:HA	32:49:162:THR:HG23	2.03	0.41
33:59:74:ASN:O	33:59:78:GLY:N	2.54	0.41
34:69:77:LEU:HA	34:69:141:LYS:HB3	2.03	0.41
35:15:17:ASP:O	35:15:18:ALA:HB3	2.21	0.41
37:35:78:PRO:HA	37:35:110:TYR:CD2	2.55	0.41
38:45:50:ALA:O	38:45:51:ARG:C	2.64	0.41
39:55:54:LEU:O	39:55:62:ALA:HB1	2.20	0.41
40:65:15:ARG:O	40:65:19:LYS:HG3	2.20	0.41
40:65:62:LYS:CA	40:65:65:VAL:HB	2.47	0.41
40:65:63:THR:O	40:65:66:ALA:HB3	2.20	0.41
42:85:95:LEU:C	42:85:97:ASP:N	2.79	0.41
44:A5:79:GLY:HA3	44:A5:100:THR:HG22	2.03	0.41
47:D5:55:HIS:O	47:D5:57:ILE:HG13	2.20	0.41
50:G5:33:MET:O	50:G5:37:PHE:HD1	2.04	0.41
55:M5:14:VAL:CG1	55:M5:15:LYS:N	2.84	0.41
55:M5:55:ALA:O	55:M5:59:LYS:HG3	2.21	0.41
1:13:223:U:H2'	1:13:224:C:H6	1.86	0.41
1:13:312:C:C2	1:13:313:A:C8	3.09	0.41
1:13:413:G:H21	1:13:428:G:HI'	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:534:U:H5''	1:13:535:A:OP2	2.19	0.41
1:13:558:G:C4	1:13:559:A:C2	3.08	0.41
1:13:752:G:H4'	15:6I:69:TYR:OH	2.21	0.41
1:13:1132:C:C2'	1:13:1133:G:H5'	2.51	0.41
1:13:1260:C:H3'	1:13:1260:C:C6	2.56	0.41
1:13:1296:C:H4'	1:13:1302:U:C5	2.56	0.41
2:1E:74:LYS:H	2:1E:74:LYS:HG3	1.57	0.41
2:1E:165:VAL:HG23	2:1E:166:ASP:H	1.85	0.41
12:3I:10:LEU:HD12	17:8I:32:TYR:CZ	2.56	0.41
12:3I:126:LYS:HD3	12:3I:126:LYS:HA	1.73	0.41
13:4I:3:ARG:HB3	13:4I:9:ILE:HG12	2.03	0.41
19:AI:33:THR:HG23	19:AI:35:SER:H	1.86	0.41
20:BI:45:GLN:O	20:BI:45:GLN:HG2	2.21	0.41
23:2K:63:C:O2	23:2K:64:G:C8	2.74	0.41
24:3K:17:U:H3'	24:3K:19:G:OP2	2.20	0.41
24:3K:49:G:N2	24:3K:64:G:H1	2.19	0.41
24:3K:59:A:C8	24:3K:60:U:C5	3.09	0.41
26:1H:141:A:C8	26:1H:1408:C:H1'	2.56	0.41
26:1H:238:C:H2'	26:1H:239:U:O4'	2.21	0.41
26:1H:507:A:H5''	26:1H:508:G:H5'	2.02	0.41
26:1H:557:U:H2'	26:1H:558:G:C8	2.56	0.41
26:1H:800:A:H4'	26:1H:801:G:O5'	2.21	0.41
26:1H:924:C:N4	26:1H:925:C:N4	2.69	0.41
26:1H:1161:C:C6	26:1H:1161:C:C3'	3.03	0.41
26:1H:1274:A:N1	26:1H:1644:C:O2'	2.34	0.41
26:1H:2104:G:C2	26:1H:2186:G:C2	3.09	0.41
26:1H:2378:A:OP1	40:A8:111:GLU:OE1	2.39	0.41
26:1H:2441:C:C2'	26:1H:2442:C:H5'	2.51	0.41
26:1H:2473:U:H2'	26:1H:2474:C:H5'	2.02	0.41
26:1H:2670:A:C2	26:1H:2671:A:C4	3.09	0.41
26:1H:2784:C:H1'	30:21:37:ARG:NH1	2.36	0.41
29:11:31:LYS:HB3	29:11:34:VAL:HG22	2.03	0.41
29:11:111:LEU:HD23	29:11:111:LEU:HA	1.94	0.41
30:21:170:LEU:HD23	30:21:170:LEU:HA	1.91	0.41
32:41:11:TYR:O	32:41:16:ARG:HG3	2.21	0.41
33:51:3:ARG:HA	33:51:3:ARG:CZ	2.51	0.41
33:51:54:ARG:HH21	33:51:57:ASP:HB3	1.86	0.41
35:58:15:LEU:O	35:58:16:ILE:HG13	2.21	0.41
39:98:34:ILE:HG22	39:98:114:VAL:HB	2.03	0.41
41:B8:22:PHE:CD1	41:B8:22:PHE:N	2.89	0.41
45:F8:41:ASN:OD1	45:F8:41:ASN:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:G8:30:VAL:C	46:G8:32:PRO:HD3	2.46	0.41
50:K8:64:LEU:CD1	50:K8:68:ARG:HH11	2.34	0.41
53:N8:16:ARG:NH1	53:N8:17:ASP:CG	2.79	0.41
1:1G:2:U:H6	4:32:86:LYS:HE3	1.86	0.41
1:1G:28:G:C6	1:1G:29:G:C5	3.09	0.41
1:1G:191(E):G:H2'	1:1G:191(F):U:C6	2.56	0.41
1:1G:328:C:H4'	1:1G:329:A:C5'	2.51	0.41
1:1G:729:A:C5	1:1G:730:G:C8	3.09	0.41
1:1G:735:C:O2'	1:1G:736:C:H5'	2.21	0.41
1:1G:750:G:N2	1:1G:751:U:C2	2.89	0.41
1:1G:830:G:H22	1:1G:857:C:H1'	1.86	0.41
1:1G:893:C:C4	1:1G:894:G:N7	2.89	0.41
1:1G:1010:G:C2	1:1G:1020:U:C4	3.09	0.41
1:1G:1055:A:N7	1:1G:1206:G:N2	2.69	0.41
1:1G:1092:A:H8	1:1G:1092:A:O5'	2.04	0.41
1:1G:1118:C:H1'	1:1G:1179:A:C8	2.56	0.41
1:1G:1246:C:C4	1:1G:1247:U:C4	3.09	0.41
1:1G:1382:C:H2'	1:1G:1383:C:C6	2.55	0.41
1:1G:1432:G:OP1	41:75:107:ASP:HB2	2.21	0.41
2:12:17:PHE:CG	2:12:18:GLY:N	2.87	0.41
2:12:187:LEU:HD11	2:12:205:ASP:HA	2.03	0.41
3:22:5:ILE:C	3:22:5:ILE:HD12	2.46	0.41
3:22:73:PRO:HA	3:22:76:VAL:CG1	2.51	0.41
3:22:182:ILE:HA	3:22:202:ILE:O	2.21	0.41
8:72:100:ILE:HD12	8:72:125:ARG:HG3	2.02	0.41
14:5A:9:LYS:HG3	14:5A:12:ARG:NH1	2.36	0.41
26:14:5:A:H2'	26:14:6:A:H5''	2.03	0.41
26:14:236:C:O5'	26:14:236:C:H6	2.04	0.41
26:14:545:G:H2'	26:14:546:C:H3'	2.02	0.41
26:14:654(B):C:H4'	26:14:654(T):A:N1	2.36	0.41
26:14:835:A:N6	26:14:836:G:C6	2.89	0.41
26:14:1971:A:H1'	29:19:240:ALA:O	2.21	0.41
26:14:2075:U:C2'	26:14:2076:U:H5''	2.51	0.41
26:14:2102:U:O2	26:14:2187:G:N2	2.53	0.41
26:14:2244:U:O2'	26:14:2245:U:H5'	2.21	0.41
26:14:2335:A:O2'	26:14:2336:A:OP2	2.39	0.41
26:14:2353:G:C8	61:14:3547:HOH:O	2.73	0.41
26:14:2377:A:O2'	40:65:111:GLU:O	2.36	0.41
26:14:2402:C:H5	26:14:2415:G:N2	2.19	0.41
26:14:2527:C:H2'	26:14:2528:U:O4'	2.21	0.41
27:1J:9:G:P	40:65:25:ARG:HH22	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:48:THR:O	31:39:48:THR:OG1	2.36	0.41
34:69:133:HIS:CG	34:69:134:PRO:HD3	2.56	0.41
36:25:34:THR:O	36:25:62:VAL:HB	2.21	0.41
37:35:65:ARG:O	37:35:65:ARG:HD2	2.21	0.41
46:C5:75:ILE:O	46:C5:80:GLY:N	2.54	0.41
50:G5:64:LEU:O	50:G5:68:ARG:HG2	2.20	0.41
1:13:247:G:C2	1:13:248:C:C5	3.09	0.40
1:13:247:G:C6	1:13:248:C:C5	3.09	0.40
1:13:532:A:O2'	1:13:533:A:H5''	2.21	0.40
1:13:533:A:C2	1:13:536:C:C5	3.08	0.40
1:13:685:G:N2	1:13:686:U:O4	2.54	0.40
1:13:806:C:H2'	1:13:807:A:C8	2.57	0.40
1:13:1004:A:N3	1:13:1004:A:H5''	2.36	0.40
1:13:1158:C:C2	1:13:1160:G:C8	3.09	0.40
1:13:1309:G:C2	1:13:1329:A:N3	2.89	0.40
1:13:1309:G:C6	1:13:1329:A:N1	2.89	0.40
1:13:1356:G:H2'	1:13:1357:A:C8	2.56	0.40
2:1E:161:ALA:HA	2:1E:183:PRO:O	2.21	0.40
4:3E:11:LEU:HD11	4:3E:21:LEU:HD22	2.01	0.40
7:6E:111:ARG:HB2	7:6E:113:GLU:HG2	2.02	0.40
12:3I:84:LEU:HD23	12:3I:101:VAL:HG21	2.03	0.40
17:8I:48:GLU:O	17:8I:49:GLU:C	2.63	0.40
17:8I:88:TYR:CD1	17:8I:89:LEU:N	2.89	0.40
24:3K:75:C:HO2'	24:3K:76:A:H2	1.68	0.40
26:1H:18:C:H4'	42:C8:23:GLY:O	2.21	0.40
26:1H:39:C:H2'	26:1H:40:C:C6	2.56	0.40
26:1H:275:G:N2	26:1H:276:A:C5	2.88	0.40
26:1H:320:A:H5''	26:1H:321:G:OP1	2.21	0.40
26:1H:483:A:H2'	26:1H:484:C:H5'	2.02	0.40
26:1H:1568:G:N3	29:11:58:HIS:HE1	2.19	0.40
26:1H:1668:A:O4'	26:1H:1669:A:C2	2.74	0.40
26:1H:1770:G:H2'	26:1H:1771:C:C6	2.56	0.40
26:1H:1771:C:O2'	26:1H:1786:A:H8	2.03	0.40
26:1H:1887:C:N4	26:1H:1888:G:N7	2.69	0.40
26:1H:2398:U:H2'	26:1H:2399:G:C8	2.56	0.40
26:1H:2439:A:H4'	26:1H:2440:C:H5''	2.03	0.40
27:16:44:G:H1'	27:16:47:C:N4	2.36	0.40
29:11:83:GLU:OE2	29:11:104:TYR:HE1	2.05	0.40
29:11:131:LEU:HB2	29:11:136:ILE:HD11	2.03	0.40
29:11:242:ARG:H	29:11:242:ARG:HD2	1.85	0.40
30:21:116:VAL:O	30:21:117:MET:CB	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:6:ALA:HB3	52:M8:23:GLU:HB2	2.03	0.40
32:41:61:ALA:HB2	32:41:67:LYS:HA	2.02	0.40
35:58:137:LYS:HE2	35:58:138:LEU:C	2.46	0.40
36:68:2:ILE:HA	36:68:2:ILE:HD13	1.69	0.40
37:78:73:GLY:O	37:78:74:GLU:C	2.63	0.40
38:88:135:ASP:OD1	38:88:137:TYR:HB2	2.22	0.40
39:98:3:HIS:O	39:98:4:LEU:HB2	2.22	0.40
40:A8:30:ARG:HA	40:A8:35:ILE:HA	2.03	0.40
40:A8:106:ARG:H	40:A8:106:ARG:HG3	1.73	0.40
45:F8:67:GLY:O	45:F8:68:ARG:HB3	2.21	0.40
52:M8:6:HIS:HA	52:M8:7:PRO:HD3	1.93	0.40
52:M8:13:ARG:NH1	52:M8:22:ILE:HA	2.36	0.40
1:1G:113:G:O4'	1:1G:354:G:H4'	2.21	0.40
1:1G:147:G:N2	1:1G:148:G:C4	2.89	0.40
1:1G:1081:G:OP2	1:1G:1081:G:H8	2.03	0.40
1:1G:1165:C:H2'	1:1G:1166:G:O4'	2.21	0.40
1:1G:1261:A:H61	1:1G:1274:G:C1'	2.34	0.40
2:12:97:TRP:CE2	2:12:173:ALA:HB2	2.56	0.40
3:22:72:LYS:HG3	3:22:75:VAL:HB	2.02	0.40
4:32:128:VAL:O	4:32:129:ASN:C	2.64	0.40
5:42:61:TYR:HA	5:42:64:ARG:HB2	2.03	0.40
7:62:35:LYS:HB3	7:62:35:LYS:HE2	1.72	0.40
20:BA:11:SER:HA	20:BA:13:LEU:HD23	2.03	0.40
20:BA:60:GLU:OE1	20:BA:85:MET:HE1	2.21	0.40
57:3L:67:C:H2'	57:3L:68:G:C8	2.56	0.40
26:14:79:G:H2'	26:14:80:G:O4'	2.21	0.40
26:14:307:G:N2	26:14:309:G:H3'	2.37	0.40
26:14:670:A:H4'	26:14:671:C:O5'	2.21	0.40
26:14:690:G:O2'	29:19:43:ARG:NH2	2.49	0.40
26:14:957:A:OP1	38:45:76:LYS:HD3	2.18	0.40
26:14:959:A:N1	26:14:960:A:C2	2.88	0.40
26:14:1157:G:C2	26:14:1158:C:C2	3.09	0.40
26:14:1477:A:C4	26:14:1517:G:N2	2.89	0.40
26:14:1543:A:H2	26:14:1545:A:C5	2.39	0.40
26:14:1671:U:O5'	26:14:1671:U:H6	2.04	0.40
26:14:1729:A:C6	26:14:1731:G:C6	3.09	0.40
26:14:1918:A:O3'	26:14:1919:A:C8	2.74	0.40
26:14:2165:G:H8	26:14:2166:G:H5''	1.86	0.40
26:14:2259:G:N1	26:14:2282:G:C6	2.89	0.40
26:14:2471:C:H2'	26:14:2472:G:H8	1.87	0.40
26:14:2728:U:O2'	26:14:2729:G:H5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2749:A:C1'	33:59:63:SER:HA	2.52	0.40
31:39:183:VAL:O	31:39:187:VAL:HG23	2.21	0.40
37:35:56:SER:HB2	37:35:61:ARG:HD2	2.03	0.40
38:45:12:GLN:O	38:45:13:GLN:O	2.38	0.40
38:45:34:LEU:HB2	38:45:118:LEU:HD13	2.03	0.40
42:85:92:ARG:CZ	43:95:11:GLN:H	2.33	0.40
44:A5:4:LYS:O	44:A5:4:LYS:HG3	2.21	0.40
46:C5:42:VAL:O	46:C5:64:GLU:HA	2.21	0.40
46:C5:52:SER:N	46:C5:56:PRO:HA	2.32	0.40
49:F5:53:VAL:O	49:F5:54:ALA:C	2.61	0.40
49:F5:92:LYS:O	49:F5:93:GLU:C	2.64	0.40
53:J5:22:HIS:CD2	53:J5:22:HIS:H	2.37	0.40
55:M5:36:LYS:CB	55:M5:41:ILE:HD11	2.51	0.40
1:13:179:A:H2'	1:13:180:U:H6	1.85	0.40
1:13:799:G:C6	1:13:800:G:C4	3.10	0.40
1:13:874:G:C6	1:13:875:C:N4	2.89	0.40
1:13:941:G:N2	1:13:942:G:H1'	2.36	0.40
1:13:1053:G:O5'	1:13:1054:C:H3'	2.21	0.40
1:13:1126:U:C5	1:13:1127:G:C2	3.09	0.40
1:13:1279:A:O2'	1:13:1281:U:OP2	2.30	0.40
1:13:1431:C:H2'	1:13:1432:G:O4'	2.20	0.40
2:1E:92:TYR:CE1	2:1E:151:GLY:HA2	2.56	0.40
3:2E:29:TYR:O	3:2E:30:ARG:C	2.64	0.40
3:2E:101:LEU:HD23	3:2E:102:ASN:O	2.21	0.40
3:2E:156:ARG:HB3	3:2E:160:ALA:O	2.21	0.40
4:3E:61:LYS:HE2	4:3E:61:LYS:C	2.45	0.40
4:3E:92:VAL:HG12	4:3E:96:LEU:CD2	2.48	0.40
10:1I:12:ASP:OD1	10:1I:14:LYS:HB2	2.21	0.40
10:1I:50:ILE:HA	10:1I:60:ARG:HB3	2.03	0.40
11:2I:84:VAL:HG22	11:2I:109:VAL:O	2.22	0.40
11:2I:109:VAL:HA	18:9I:85:LEU:O	2.21	0.40
22:1K:27:G:H22	22:1K:43:U:H3	1.64	0.40
26:1H:234:C:C2	26:1H:235:U:C6	3.10	0.40
26:1H:287:C:O2'	26:1H:288:C:H5'	2.20	0.40
26:1H:448:U:O4	26:1H:583:G:H1'	2.21	0.40
26:1H:451:C:C2	26:1H:453:C:C5	3.09	0.40
26:1H:654(T):A:H2'	26:1H:654(U):A:O4'	2.20	0.40
26:1H:696:G:C2	26:1H:697:C:C6	3.10	0.40
26:1H:1282:U:H2'	26:1H:1283:G:C8	2.56	0.40
26:1H:1316:U:H2'	26:1H:1317:A:H8	1.85	0.40
26:1H:1663:C:O2'	26:1H:2686:G:H4'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1673:U:C6	26:1H:1673:U:H3'	2.56	0.40
26:1H:1675:C:O2	30:21:128:SER:OG	2.39	0.40
26:1H:2197:U:H1'	26:1H:2198:A:C8	2.56	0.40
28:71:69:GLY:HA2	28:71:177:LYS:N	2.36	0.40
30:21:20:ALA:C	30:21:21:VAL:HG13	2.46	0.40
30:21:170:LEU:HD11	30:21:187:ALA:HB3	2.02	0.40
35:58:70:LYS:HE3	35:58:72:TYR:CE1	2.56	0.40
38:88:24:GLY:O	38:88:25:ASP:HB3	2.21	0.40
38:88:38:GLU:OE1	38:88:128:LYS:HD2	2.21	0.40
39:98:12:ARG:CG	39:98:16:HIS:CG	3.04	0.40
40:A8:84:GLN:O	40:A8:85:VAL:HG13	2.21	0.40
41:B8:125:ARG:HA	41:B8:128:GLU:CD	2.46	0.40
43:D8:44:LYS:C	43:D8:46:VAL:N	2.78	0.40
43:D8:79:VAL:HG13	43:D8:81:TYR:CB	2.47	0.40
45:F8:9:LEU:HD23	45:F8:9:LEU:HA	1.92	0.40
46:G8:81:LYS:HD2	46:G8:99:CYS:SG	2.61	0.40
53:N8:42:PRO:C	53:N8:44:THR:H	2.29	0.40
54:P8:33:ARG:HH11	54:P8:33:ARG:HD2	1.72	0.40
1:1G:95:G:C6	1:1G:96:G:C5	3.09	0.40
1:1G:190:G:OP1	1:1G:190:G:H8	2.04	0.40
1:1G:452:A:C6	1:1G:453:A:C6	3.09	0.40
1:1G:497:U:O2	1:1G:497:U:H2'	2.20	0.40
1:1G:545:C:H2'	1:1G:546:G:O4'	2.20	0.40
1:1G:709:G:C4	1:1G:710:G:C8	3.09	0.40
1:1G:926:G:C6	1:1G:1505:G:C6	3.09	0.40
1:1G:1213:A:N6	1:1G:1215:G:N3	2.69	0.40
1:1G:1257:U:H5''	1:1G:1258:G:C8	2.57	0.40
1:1G:1287:A:H2	1:1G:1353:G:HO2'	1.63	0.40
1:1G:1296:C:H3'	1:1G:1297:C:H6	1.86	0.40
1:1G:1311:G:N2	1:1G:1326:C:O2	2.53	0.40
1:1G:1333:A:O5'	1:1G:1333:A:H8	2.05	0.40
2:12:90:MET:HA	2:12:91:PRO:HD3	1.84	0.40
3:22:113:ALA:HB3	3:22:114:PRO:HD3	2.04	0.40
3:22:152:ILE:HG23	3:22:167:TRP:CB	2.51	0.40
6:52:95:GLU:HA	6:52:96:PRO:HD3	1.93	0.40
7:62:93:PRO:HD2	7:62:94:ARG:HH21	1.86	0.40
12:3A:6:THR:OG1	12:3A:9:GLN:HG3	2.21	0.40
17:8A:29:HIS:HB3	17:8A:33:GLY:N	2.36	0.40
18:9A:76:LEU:HD23	18:9A:76:LEU:HA	1.91	0.40
26:14:141:A:H8	26:14:1408:C:H1'	1.86	0.40
26:14:270(E):G:C6	26:14:270(F):U:C4	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:425:G:H2'	26:14:426:C:H6	1.85	0.40
26:14:470:A:C8	26:14:470:A:C5'	3.02	0.40
26:14:533:G:H5'	42:85:24:TYR:CE1	2.56	0.40
26:14:544:C:H2'	26:14:545:G:H5'	2.01	0.40
26:14:631:A:OP1	37:35:65:ARG:NH1	2.45	0.40
26:14:817:C:H6	26:14:817:C:O5'	2.04	0.40
26:14:917:A:N1	26:14:918:A:N3	2.70	0.40
26:14:953:A:OP1	38:45:16:ARG:HD3	2.20	0.40
26:14:968:G:C2	26:14:969:U:C2	3.09	0.40
26:14:1677:A:H2'	26:14:1678:G:O4'	2.21	0.40
26:14:1754:C:N3	26:14:2716:U:O2'	2.53	0.40
26:14:1767:C:O2'	26:14:1768:U:H5'	2.21	0.40
26:14:2164:C:O2'	26:14:2165:G:H5'	2.22	0.40
26:14:2191:G:H2'	26:14:2191:G:N3	2.36	0.40
26:14:2380:C:OP1	40:65:20:ARG:NH1	2.54	0.40
26:14:2405:G:OP1	37:35:77:ARG:NH2	2.54	0.40
26:14:2525:G:C2	26:14:2539:C:N3	2.89	0.40
27:1J:23:G:N1	27:1J:59:A:N6	2.69	0.40
27:1J:93:C:C2	27:1J:94:C:C6	3.09	0.40
29:19:77:ALA:HB2	29:19:97:TYR:CG	2.56	0.40
29:19:182:LEU:HD13	29:19:182:LEU:HA	1.83	0.40
30:29:1:MET:CA	30:29:200:GLU:OE2	2.70	0.40
31:39:126:VAL:HG11	31:39:142:TRP:HH2	1.86	0.40
31:39:192:LEU:HD13	31:39:194:MET:HE2	2.03	0.40
32:49:138:GLN:CB	32:49:155:MET:HE1	2.50	0.40
41:75:113:LYS:O	41:75:114:LEU:HD23	2.21	0.40
47:D5:44:PHE:CD1	47:D5:48:PHE:HB2	2.56	0.40
47:D5:78:LYS:H	47:D5:78:LYS:HG2	1.48	0.40
49:F5:90:ILE:HG21	49:F5:90:ILE:HD13	1.79	0.40
51:H5:26:LEU:HD21	51:H5:46:ASN:HB2	2.03	0.40
1:13:27:G:C5	1:13:557:G:C2	3.09	0.40
1:13:109:A:C6	1:13:326:G:C6	3.08	0.40
1:13:198:G:C6	1:13:220:G:C2	3.09	0.40
1:13:1316:G:N2	1:13:1319:A:OP2	2.46	0.40
1:13:1367:C:N3	1:13:1368:G:C8	2.90	0.40
2:1E:94:ASN:CG	2:1E:95:GLN:HG2	2.47	0.40
3:2E:30:ARG:HH11	3:2E:30:ARG:HD2	1.75	0.40
3:2E:113:ALA:O	3:2E:116:VAL:HG22	2.21	0.40
5:4E:33:VAL:HG12	5:4E:112:LEU:HD12	2.03	0.40
9:8E:78:LYS:HE3	9:8E:101:PHE:CE1	2.57	0.40
15:6I:17:ARG:HH11	15:6I:17:ARG:HD3	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9I:47:THR:O	18:9I:83:GLU:N	2.55	0.40
19:AI:40:ILE:O	19:AI:41:VAL:HG22	2.21	0.40
24:3K:3:G:H22	24:3K:70:C:N4	2.19	0.40
26:1H:302:C:H2'	26:1H:303:U:C6	2.56	0.40
26:1H:426:C:C2	26:1H:427:U:C6	3.09	0.40
26:1H:484:C:H2'	26:1H:485:C:C6	2.57	0.40
26:1H:781:A:C8	29:11:219:PRO:HG3	2.56	0.40
26:1H:822:U:O2'	26:1H:823:G:H5'	2.21	0.40
26:1H:969:U:OP1	51:L8:17:LYS:HD3	2.20	0.40
26:1H:1164:G:C6	26:1H:1165:U:C4	3.09	0.40
26:1H:1422:G:H4'	26:1H:1493:C:OP1	2.21	0.40
26:1H:1465:G:C5	26:1H:1466:G:N7	2.89	0.40
26:1H:1471:A:C2	26:1H:1472:A:C4	3.09	0.40
26:1H:1598:C:H2'	26:1H:1599:C:H6	1.86	0.40
26:1H:1748:G:H2'	26:1H:1749:A:C8	2.57	0.40
26:1H:1786:A:H1'	26:1H:1938:A:N6	2.37	0.40
26:1H:2256:G:N2	26:1H:2275:C:N4	2.69	0.40
26:1H:2568:C:H2'	26:1H:2569:G:O4'	2.21	0.40
26:1H:2705:A:H2'	26:1H:2706:G:O4'	2.20	0.40
26:1H:2814:C:O2'	53:N8:29:THR:HG21	2.21	0.40
30:21:79:ARG:HG2	30:21:80:GLU:H	1.86	0.40
31:31:11:VAL:HG11	31:31:18:ARG:HH21	1.86	0.40
31:31:12:LEU:HD22	31:31:12:LEU:HA	1.80	0.40
31:31:126:VAL:HG11	31:31:142:TRP:HH2	1.86	0.40
31:31:162:LEU:HD23	31:31:162:LEU:HA	1.79	0.40
32:41:19:LEU:HD23	32:41:23:PHE:HE2	1.85	0.40
32:41:77:ILE:HD13	32:41:77:ILE:HG21	1.76	0.40
33:51:7:LEU:H	33:51:7:LEU:HG	1.75	0.40
33:51:139:GLN:C	33:51:139:GLN:CD	2.89	0.40
35:58:23:LEU:C	35:58:23:LEU:HD12	2.45	0.40
37:78:126:VAL:HA	37:78:145:PRO:HD2	2.04	0.40
41:B8:89:VAL:O	41:B8:90:GLN:HB2	2.20	0.40
47:H8:81:ARG:HG3	47:H8:81:ARG:O	2.22	0.40
47:H8:140:ASP:CG	47:H8:141:VAL:H	2.28	0.40
47:H8:151:HIS:HA	47:H8:170:THR:HA	2.03	0.40
1:1G:361:G:H2'	1:1G:362:G:O4'	2.21	0.40
1:1G:377:G:H1	1:1G:386:C:N4	2.04	0.40
1:1G:637:G:H2'	1:1G:638:G:H8	1.87	0.40
1:1G:777:A:H2	11:2A:119:CYS:HB3	1.85	0.40
1:1G:841:U:C6	1:1G:841:U:C3'	3.04	0.40
1:1G:1344:C:H4'	9:82:120:ARG:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1357:A:H3'	1:1G:1358:U:C6	2.57	0.40
1:1G:1376:U:H2'	1:1G:1377:A:C8	2.56	0.40
4:32:6:GLY:O	4:32:7:PRO:C	2.65	0.40
4:32:110:PHE:CD1	4:32:110:PHE:N	2.90	0.40
7:62:136:LYS:HZ2	7:62:137:LYS:NZ	2.16	0.40
9:82:18:PHE:C	9:82:19:LEU:HD23	2.46	0.40
9:82:26:VAL:HG12	9:82:27:THR:N	2.36	0.40
12:3A:20:LYS:C	12:3A:20:LYS:CE	2.94	0.40
12:3A:76:ASN:OD1	12:3A:76:ASN:N	2.39	0.40
23:2L:36:A:H2'	23:2L:37:U:C6	2.56	0.40
57:3L:30:G:N2	57:3L:41:A:N9	2.69	0.40
26:14:284:U:H2'	26:14:285:C:H6	1.85	0.40
26:14:422:A:C6	26:14:423:A:C6	3.09	0.40
26:14:445:C:O2'	26:14:446:G:H5'	2.21	0.40
26:14:817:C:H2'	26:14:818:G:O4'	2.21	0.40
26:14:842:G:O5'	26:14:842:G:H8	2.04	0.40
26:14:848:G:C4	26:14:933:A:C8	2.97	0.40
26:14:1033:U:H3'	26:14:1033:U:C6	2.56	0.40
26:14:1053:C:H2'	26:14:1054:A:C1'	2.51	0.40
26:14:1213:A:N3	26:14:1238:G:O2'	2.49	0.40
26:14:2082:A:H3'	26:14:2083:G:H8	1.87	0.40
26:14:2336:A:O5'	26:14:2336:A:H8	2.04	0.40
26:14:2505:G:O6	26:14:2576:G:H2'	2.20	0.40
26:14:2859:G:H3'	26:14:2859:G:C8	2.56	0.40
27:1J:117:G:O6	27:1J:119:A:N6	2.54	0.40
29:19:66:ASP:OD1	29:19:68:LYS:O	2.39	0.40
30:29:41:LYS:NZ	30:29:42:ASP:OD2	2.53	0.40
31:39:53:THR:O	31:39:55:GLY:N	2.54	0.40
32:49:11:TYR:HD1	32:49:176:LEU:HD11	1.87	0.40
32:49:106:LEU:HB3	32:49:107:LEU:CD2	2.51	0.40
33:59:56:SER:HB3	33:59:61:HIS:CG	2.57	0.40
38:45:110:THR:OG1	38:45:113:GLN:HB2	2.22	0.40
39:55:82:GLU:H	39:55:85:PRO:HG2	1.86	0.40
41:75:113:LYS:C	41:75:114:LEU:HD23	2.47	0.40
42:85:91:ASP:C	42:85:93:LYS:N	2.79	0.40
42:85:100:VAL:O	42:85:102:GLU:N	2.50	0.40
44:A5:19:LEU:HD13	44:A5:19:LEU:HA	1.82	0.40
46:C5:6:HIS:CD2	46:C5:7:VAL:HG13	2.57	0.40
48:E5:26:TYR:O	48:E5:29:GLN:HB2	2.20	0.40
49:F5:5:CYS:HG	49:F5:8:SER:HG	1.59	0.40
49:F5:15:ALA:O	49:F5:40:ARG:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M5:31:HIS:O	55:M5:36:LYS:NZ	2.55	0.40
1:13:255:G:C5	1:13:256:U:C5	3.09	0.40
1:13:458:C:N4	1:13:475:G:C6	2.89	0.40
1:13:592:G:C2	1:13:593:G:N7	2.89	0.40
1:13:917:G:H2'	1:13:918:A:C8	2.56	0.40
1:13:1173:G:C5	1:13:1174:G:C8	3.09	0.40
1:13:1196:U:O2	3:2E:162:GLN:NE2	2.54	0.40
1:13:1277:C:H2'	1:13:1279:A:H8	1.86	0.40
1:13:1501:C:C5	1:13:1504:G:C4	3.10	0.40
5:4E:78:HIS:CE1	5:4E:142:LEU:HD23	2.56	0.40
6:5E:36:ARG:H	6:5E:65:VAL:HG23	1.86	0.40
11:2I:47:VAL:H	11:2I:47:VAL:HG23	1.61	0.40
13:4I:8:GLU:O	13:4I:10:PRO:HD3	2.21	0.40
13:4I:15:VAL:HG21	13:4I:43:THR:HB	2.03	0.40
23:2K:2:G:C2	23:2K:3:C:C4	3.09	0.40
26:1H:34:C:OP2	26:1H:34:C:N1	2.55	0.40
26:1H:146:G:H2'	26:1H:147:U:O4'	2.21	0.40
26:1H:373:U:OP2	26:1H:400:G:N1	2.40	0.40
26:1H:562:U:H6	26:1H:562:U:H2'	1.71	0.40
26:1H:594:U:H3	26:1H:663:G:H1	1.70	0.40
26:1H:731:C:C2	26:1H:732:C:C5	3.10	0.40
26:1H:811:U:H3'	37:78:22:GLY:HA2	2.02	0.40
26:1H:817:C:H2'	26:1H:818:G:O4'	2.22	0.40
26:1H:820:A:H4'	26:1H:836:G:N2	2.37	0.40
26:1H:997:G:OP1	42:C8:93:LYS:HG3	2.21	0.40
26:1H:1858:G:H4'	26:1H:1859:A:C5'	2.52	0.40
26:1H:1950:G:C2	26:1H:1951:U:C5	3.10	0.40
26:1H:2259:G:C6	26:1H:2282:G:O6	2.75	0.40
26:1H:2324:C:O2'	26:1H:2337:G:H5''	2.20	0.40
26:1H:2370:G:C6	26:1H:2371:G:C6	3.09	0.40
26:1H:2663:G:H8	26:1H:2663:G:OP2	2.04	0.40
26:1H:2683:C:C4	26:1H:2684:U:C4	3.09	0.40
26:1H:2801:A:H5'	26:1H:2895:U:C4'	2.51	0.40
26:1H:2854:G:C6	26:1H:2855:C:N4	2.89	0.40
27:16:3:C:H42	27:16:117:G:H1	1.68	0.40
27:16:88:C:H2'	27:16:89:G:O4'	2.21	0.40
28:71:44:HIS:CE1	28:71:215:THR:HG22	2.56	0.40
29:11:6:PHE:CE1	29:11:18:VAL:HG23	2.56	0.40
30:21:16:ARG:HG3	30:21:17:ASP:OD1	2.22	0.40
30:21:102:VAL:CA	30:21:201:THR:HG23	2.51	0.40
32:41:47:LYS:NZ	32:41:80:PHE:CD1	2.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:88:20:ALA:HB1	38:88:99:PRO:HB2	2.03	0.40
38:88:41:TRP:HB3	38:88:94:VAL:HB	2.03	0.40
39:98:77:ARG:C	39:98:79:LEU:N	2.80	0.40
41:B8:34:VAL:CG2	41:B8:41:ARG:HG3	2.51	0.40
46:G8:45:VAL:HG22	46:G8:46:LYS:N	2.36	0.40
1:1G:73:G:C6	1:1G:74:C:C4	3.09	0.40
1:1G:324:G:O2'	1:1G:326:G:N7	2.42	0.40
1:1G:464:G:O6	1:1G:466:C:H5'	2.21	0.40
1:1G:763:G:N3	1:1G:763:G:H2'	2.36	0.40
1:1G:777:A:C6	1:1G:778:G:C4	3.10	0.40
1:1G:790:A:H8	1:1G:790:A:O5'	2.05	0.40
1:1G:882:C:N4	12:3A:5:PRO:HB3	2.37	0.40
1:1G:1081:G:C8	5:42:47:LYS:NZ	2.90	0.40
1:1G:1157:A:H61	1:1G:1177:G:N2	2.20	0.40
1:1G:1279:A:H5''	1:1G:1280:A:P	2.61	0.40
1:1G:1311:G:H1	1:1G:1326:C:H42	1.69	0.40
3:22:20:SER:CB	3:22:40:ARG:HH22	2.31	0.40
4:32:128:VAL:CG1	4:32:144:ASP:HB3	2.51	0.40
4:32:173:TRP:N	4:32:187:ARG:HH11	2.19	0.40
8:72:37:ARG:O	8:72:41:ARG:HG3	2.21	0.40
8:72:48:TYR:HB2	8:72:61:VAL:HG22	2.03	0.40
9:82:10:ARG:NH1	9:82:11:LYS:HB2	2.36	0.40
15:6A:39:LEU:HD22	15:6A:39:LEU:O	2.21	0.40
19:AA:74:PHE:N	19:AA:74:PHE:CD1	2.87	0.40
26:14:629:G:H2'	26:14:630:G:C8	2.56	0.40
26:14:635:C:H1'	26:14:639:U:H5''	2.03	0.40
26:14:722:A:H5'	26:14:723:G:P	2.61	0.40
26:14:959:A:HO2'	26:14:960:A:P	2.44	0.40
26:14:997:G:H2'	26:14:998:C:H6	1.87	0.40
26:14:1550:C:OP1	26:14:1727:U:O2'	2.36	0.40
26:14:1966:A:H4'	26:14:1967:C:OP1	2.22	0.40
26:14:2291:U:H5''	26:14:2380:C:O2'	2.21	0.40
26:14:2349:G:OP2	55:M5:42:ARG:NE	2.53	0.40
26:14:2500:U:H5''	26:14:2501:C:OP2	2.22	0.40
26:14:2572:A:N3	30:29:144:ARG:NH2	2.69	0.40
29:19:2:ALA:N	29:19:200:ASP:OD2	2.54	0.40
29:19:42:GLY:C	29:19:43:ARG:HG3	2.43	0.40
29:19:44:ASN:HD22	29:19:44:ASN:HA	1.50	0.40
32:49:174:GLU:HB2	32:49:180:PHE:CE1	2.56	0.40
37:35:63:PRO:CB	55:M5:30:ARG:HH21	2.34	0.40
37:35:144:GLU:OE1	37:35:145:PRO:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:55:34:ILE:HA	39:55:34:ILE:HD12	1.85	0.40
40:65:3:ARG:C	40:65:3:ARG:NE	2.77	0.40
44:A5:14:PRO:HA	44:A5:17:VAL:HG12	2.03	0.40
50:G5:68:ARG:HD3	50:G5:68:ARG:HA	1.97	0.40
55:M5:32:LEU:HA	55:M5:32:LEU:HD12	1.67	0.40
1:13:105:G:H2'	1:13:106:C:H6	1.86	0.40
1:13:243:A:H5''	1:13:244:U:H3'	2.04	0.40
1:13:458:C:H2'	1:13:464:G:C8	2.56	0.40
1:13:575:G:C2	1:13:881:G:C4	3.09	0.40
1:13:600:C:H2'	1:13:601:C:C6	2.56	0.40
1:13:622:A:OP2	1:13:623:C:N4	2.53	0.40
1:13:813:U:H5'	1:13:904:C:OP1	2.21	0.40
1:13:841:U:H6	1:13:841:U:H2'	1.71	0.40
1:13:955:U:H1'	1:13:1227:A:H61	1.86	0.40
1:13:984:C:H42	1:13:1221:G:H1	1.70	0.40
1:13:1216:G:OP1	14:5I:2:ALA:HB1	2.21	0.40
1:13:1401:G:N2	1:13:1402:C:H1'	2.36	0.40
1:13:1416:G:C6	1:13:1417:G:C5	3.09	0.40
1:13:1517:G:H1'	26:1H:1919:A:O3'	2.21	0.40
2:1E:6:THR:CA	2:1E:221:LEU:HD21	2.52	0.40
4:3E:31:CYS:SG	4:3E:33:MET:HB2	2.61	0.40
4:3E:153:ARG:O	4:3E:181:MET:HE1	2.22	0.40
5:4E:51:VAL:HG13	5:4E:52:PRO:CD	2.47	0.40
7:6E:100:ALA:O	7:6E:104:LEU:HB2	2.21	0.40
9:8E:86:VAL:O	9:8E:90:PRO:HB3	2.21	0.40
11:2I:50:TYR:HD2	11:2I:54:ARG:HB2	1.86	0.40
13:4I:70:LEU:O	13:4I:73:GLU:N	2.53	0.40
26:1H:273(C):C:H42	26:1H:363(C):G:H1	1.70	0.40
26:1H:300:A:H1'	26:1H:319:C:O4'	2.22	0.40
26:1H:651:G:OP1	55:Q8:19:SER:OG	2.30	0.40
26:1H:1234:U:H2'	26:1H:1235:G:O4'	2.22	0.40
26:1H:1387:C:C2	26:1H:1388:G:C8	3.09	0.40
26:1H:1425:G:H2'	26:1H:1426:G:O4'	2.22	0.40
26:1H:1431:U:C2	26:1H:1563:G:N2	2.89	0.40
26:1H:1498:C:O4'	26:1H:1577:C:H4'	2.21	0.40
26:1H:1569:A:C6	26:1H:1570:A:C6	3.10	0.40
26:1H:1776:G:N3	26:1H:1776:G:H2'	2.36	0.40
26:1H:2378:A:C5	26:1H:2379:G:H1'	2.56	0.40
27:16:38:C:C4'	40:A8:95:HIS:HE2	2.33	0.40
29:11:2:ALA:C	29:11:3:VAL:HG22	2.46	0.40
31:31:53:THR:H	31:31:56:GLU:CD	2.26	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:31:106:ARG:O	31:31:107:LYS:C	2.65	0.40
32:41:96:ARG:N	32:41:99:MET:HE2	2.28	0.40
32:41:98:ARG:HE	52:M8:1:MET:CE	2.34	0.40
36:68:25:LEU:HD12	36:68:38:VAL:HG22	2.02	0.40
36:68:93:PRO:HG3	36:68:114:ILE:CG1	2.52	0.40
42:C8:107:ALA:O	42:C8:108:GLU:C	2.65	0.40
45:F8:3:THR:H	45:F8:3:THR:HG23	1.40	0.40
47:H8:60:GLU:O	47:H8:61:LEU:HD23	2.22	0.40
48:I8:77:ARG:HH11	48:I8:77:ARG:HD3	1.64	0.40
50:K8:59:ARG:O	50:K8:62:THR:HB	2.22	0.40
53:N8:3:LYS:HB3	53:N8:4:HIS:H	1.75	0.40
1:1G:457:C:H2'	1:1G:458:C:H6	1.85	0.40
1:1G:501:C:OP1	12:3A:117:ARG:NH2	2.46	0.40
1:1G:607:A:H8	1:1G:607:A:O5'	2.03	0.40
1:1G:746:A:C5	1:1G:747:C:C4	3.10	0.40
1:1G:827:U:N3	1:1G:870:U:C4	2.89	0.40
1:1G:959:A:O2'	1:1G:984:C:O2'	2.32	0.40
1:1G:1127:G:O2'	1:1G:1148:U:O2	2.28	0.40
1:1G:1386:G:H2'	1:1G:1387:G:H8	1.85	0.40
1:1G:1415:G:C6	1:1G:1486:G:C6	3.10	0.40
2:12:25:ASN:OD1	2:12:27:LYS:N	2.53	0.40
2:12:178:ARG:NH1	2:12:196:LEU:O	2.46	0.40
3:22:156:ARG:HB2	3:22:159:GLY:HA2	2.04	0.40
5:42:80:ILE:O	5:42:90:VAL:HA	2.21	0.40
5:42:153:LYS:HA	5:42:153:LYS:HD3	1.90	0.40
6:52:40:VAL:HG23	6:52:62:TRP:O	2.22	0.40
6:52:50:TYR:HE1	6:52:52:ILE:HG12	1.86	0.40
7:62:23:VAL:HG13	7:62:43:PHE:CE2	2.55	0.40
8:72:25:ASP:OD1	8:72:25:ASP:N	2.55	0.40
9:82:118:LYS:HB3	9:82:118:LYS:HZ3	1.86	0.40
12:3A:34:ARG:H	12:3A:34:ARG:HG2	1.64	0.40
15:6A:65:ARG:HH11	15:6A:65:ARG:HD3	1.78	0.40
16:7A:52:ASP:O	16:7A:56:ALA:N	2.53	0.40
56:1L:65:C:N4	56:1L:66:A:N3	2.69	0.40
57:3L:19:G:H3'	57:3L:20:U:O4'	2.21	0.40
26:14:521:G:H2'	26:14:522:G:C8	2.56	0.40
26:14:649:G:H2'	26:14:650:C:C6	2.57	0.40
26:14:704:G:H1'	26:14:726:G:N2	2.36	0.40
26:14:910:A:N7	38:45:13:GLN:HG3	2.36	0.40
26:14:1542:G:H3'	26:14:1543:A:C5'	2.51	0.40
26:14:1575:C:H2'	26:14:1576:U:H6	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1629:U:H2'	26:14:1630:G:C8	2.57	0.40
26:14:1817:G:C6	26:14:1818:U:C4	3.10	0.40
26:14:2048:G:C2	26:14:2621:A:C2	3.09	0.40
26:14:2153:G:N2	26:14:2154:G:C6	2.90	0.40
26:14:2467:C:H4'	38:45:123:HIS:CE1	2.57	0.40
27:1J:11:C:H3'	27:1J:12:C:C6	2.57	0.40
29:19:133:LEU:HD13	29:19:173:VAL:HG22	2.02	0.40
29:19:133:LEU:HD23	29:19:133:LEU:HA	1.93	0.40
30:29:11:MET:HG3	30:29:24:THR:H	1.87	0.40
30:29:81:ILE:HG21	30:29:84:PHE:HD2	1.86	0.40
30:29:181:LEU:HD11	41:75:7:ILE:HD11	2.03	0.40
38:45:22:LYS:N	38:45:23:GLY:CA	2.83	0.40
38:45:41:TRP:HB3	38:45:94:VAL:HB	2.04	0.40
38:45:69:PHE:CD1	38:45:70:PRO:HD2	2.57	0.40
44:A5:2:GLU:OE2	44:A5:72:LYS:NZ	2.40	0.40
44:A5:33:ARG:NH2	44:A5:52:GLU:OE2	2.55	0.40
45:B5:57:LEU:N	45:B5:57:LEU:HD23	2.36	0.40
45:B5:59:VAL:O	45:B5:59:VAL:HG12	2.21	0.40
50:G5:59:ARG:HE	50:G5:59:ARG:HB2	1.30	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:82:U:O2'	26:14:271(C):U:O4[3_545]	1.99	0.21
34:61:89:TYR:O	1:1G:357:G:O2'[4_555]	2.19	0.01

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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
2	12	202/256 (79%)	170 (84%)	26 (13%)	6 (3%)	3 19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	1E	227/256 (89%)	194 (86%)	28 (12%)	5 (2%)	5	25
3	22	190/239 (80%)	167 (88%)	22 (12%)	1 (0%)	24	55
3	2E	203/239 (85%)	183 (90%)	20 (10%)	0	100	100
4	32	206/209 (99%)	181 (88%)	22 (11%)	3 (2%)	8	33
4	3E	205/209 (98%)	189 (92%)	14 (7%)	2 (1%)	12	41
5	42	147/162 (91%)	136 (92%)	11 (8%)	0	100	100
5	4E	147/162 (91%)	137 (93%)	9 (6%)	1 (1%)	18	49
6	52	99/101 (98%)	94 (95%)	5 (5%)	0	100	100
6	5E	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
7	62	134/156 (86%)	121 (90%)	13 (10%)	0	100	100
7	6E	147/156 (94%)	141 (96%)	6 (4%)	0	100	100
8	72	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	49
8	7E	136/138 (99%)	125 (92%)	10 (7%)	1 (1%)	18	49
9	82	101/128 (79%)	88 (87%)	11 (11%)	2 (2%)	6	27
9	8E	124/128 (97%)	103 (83%)	20 (16%)	1 (1%)	16	46
10	1A	54/105 (51%)	46 (85%)	8 (15%)	0	100	100
10	1I	66/105 (63%)	58 (88%)	6 (9%)	2 (3%)	3	19
11	2A	111/129 (86%)	97 (87%)	12 (11%)	2 (2%)	6	29
11	2I	109/129 (84%)	94 (86%)	13 (12%)	2 (2%)	6	29
12	3A	119/132 (90%)	97 (82%)	17 (14%)	5 (4%)	2	13
12	3I	120/132 (91%)	103 (86%)	16 (13%)	1 (1%)	16	46
13	4A	109/126 (86%)	93 (85%)	15 (14%)	1 (1%)	14	43
13	4I	117/126 (93%)	97 (83%)	20 (17%)	0	100	100
14	5A	44/61 (72%)	37 (84%)	7 (16%)	0	100	100
14	5I	58/61 (95%)	48 (83%)	8 (14%)	2 (3%)	3	16
15	6A	85/89 (96%)	77 (91%)	8 (9%)	0	100	100
15	6I	85/89 (96%)	74 (87%)	11 (13%)	0	100	100
16	7A	82/88 (93%)	76 (93%)	6 (7%)	0	100	100
16	7I	78/88 (89%)	73 (94%)	5 (6%)	0	100	100
17	8A	97/105 (92%)	91 (94%)	6 (6%)	0	100	100
17	8I	98/105 (93%)	91 (93%)	7 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	9A	65/88 (74%)	62 (95%)	3 (5%)	0	100	100
18	9I	65/88 (74%)	60 (92%)	4 (6%)	1 (2%)	8	33
19	AA	32/93 (34%)	25 (78%)	6 (19%)	1 (3%)	3	18
19	AI	79/93 (85%)	66 (84%)	11 (14%)	2 (2%)	4	22
20	BA	96/106 (91%)	81 (84%)	12 (12%)	3 (3%)	3	18
20	BI	95/106 (90%)	80 (84%)	15 (16%)	0	100	100
21	1B	21/27 (78%)	21 (100%)	0	0	100	100
21	1F	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
28	7I	131/229 (57%)	121 (92%)	9 (7%)	1 (1%)	16	46
29	11	271/276 (98%)	233 (86%)	26 (10%)	12 (4%)	2	12
29	19	271/276 (98%)	245 (90%)	19 (7%)	7 (3%)	4	21
30	21	201/206 (98%)	158 (79%)	34 (17%)	9 (4%)	2	12
30	29	201/206 (98%)	153 (76%)	37 (18%)	11 (6%)	1	9
31	31	200/210 (95%)	176 (88%)	22 (11%)	2 (1%)	12	41
31	39	202/210 (96%)	158 (78%)	36 (18%)	8 (4%)	2	14
32	41	177/182 (97%)	154 (87%)	18 (10%)	5 (3%)	4	20
32	49	177/182 (97%)	152 (86%)	23 (13%)	2 (1%)	11	39
33	51	169/180 (94%)	135 (80%)	20 (12%)	14 (8%)	0	3
33	59	63/180 (35%)	44 (70%)	13 (21%)	6 (10%)	0	2
34	61	143/148 (97%)	118 (82%)	24 (17%)	1 (1%)	18	49
34	69	143/148 (97%)	111 (78%)	27 (19%)	5 (4%)	3	16
35	15	135/140 (96%)	119 (88%)	13 (10%)	3 (2%)	5	25
35	58	136/140 (97%)	117 (86%)	15 (11%)	4 (3%)	3	20
36	25	120/122 (98%)	110 (92%)	9 (8%)	1 (1%)	16	46
36	68	120/122 (98%)	110 (92%)	10 (8%)	0	100	100
37	35	146/150 (97%)	111 (76%)	31 (21%)	4 (3%)	4	21
37	78	145/150 (97%)	116 (80%)	21 (14%)	8 (6%)	1	9
38	45	136/141 (96%)	109 (80%)	23 (17%)	4 (3%)	3	20
38	88	139/141 (99%)	115 (83%)	17 (12%)	7 (5%)	1	10
39	55	116/118 (98%)	109 (94%)	6 (5%)	1 (1%)	14	43
39	98	116/118 (98%)	93 (80%)	22 (19%)	1 (1%)	14	43

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	65	108/112 (96%)	87 (81%)	18 (17%)	3 (3%)	4	20
40	A8	109/112 (97%)	89 (82%)	19 (17%)	1 (1%)	14	43
41	75	134/146 (92%)	121 (90%)	13 (10%)	0	100	100
41	B8	133/146 (91%)	117 (88%)	14 (10%)	2 (2%)	8	33
42	85	114/118 (97%)	99 (87%)	13 (11%)	2 (2%)	6	29
42	C8	113/118 (96%)	104 (92%)	5 (4%)	4 (4%)	3	16
43	95	97/101 (96%)	77 (79%)	16 (16%)	4 (4%)	2	14
43	D8	99/101 (98%)	89 (90%)	7 (7%)	3 (3%)	3	19
44	A5	108/113 (96%)	100 (93%)	7 (6%)	1 (1%)	14	43
44	E8	108/113 (96%)	97 (90%)	11 (10%)	0	100	100
45	B5	92/96 (96%)	85 (92%)	5 (5%)	2 (2%)	5	25
45	F8	93/96 (97%)	82 (88%)	10 (11%)	1 (1%)	11	39
46	C5	103/110 (94%)	70 (68%)	26 (25%)	7 (7%)	1	6
46	G8	102/110 (93%)	80 (78%)	16 (16%)	6 (6%)	1	8
47	D5	124/206 (60%)	96 (77%)	25 (20%)	3 (2%)	4	23
47	H8	142/206 (69%)	112 (79%)	22 (16%)	8 (6%)	1	9
48	E5	76/85 (89%)	66 (87%)	8 (10%)	2 (3%)	4	21
48	I8	74/85 (87%)	68 (92%)	6 (8%)	0	100	100
49	F5	92/98 (94%)	83 (90%)	7 (8%)	2 (2%)	5	25
49	J8	92/98 (94%)	84 (91%)	6 (6%)	2 (2%)	5	25
50	G5	65/72 (90%)	61 (94%)	3 (5%)	1 (2%)	8	33
50	K8	66/72 (92%)	55 (83%)	7 (11%)	4 (6%)	1	7
51	H5	56/60 (93%)	53 (95%)	3 (5%)	0	100	100
51	L8	56/60 (93%)	53 (95%)	3 (5%)	0	100	100
52	M8	45/71 (63%)	28 (62%)	15 (33%)	2 (4%)	2	12
53	J5	54/60 (90%)	46 (85%)	8 (15%)	0	100	100
53	N8	46/60 (77%)	42 (91%)	4 (9%)	0	100	100
54	L5	43/49 (88%)	39 (91%)	4 (9%)	0	100	100
54	P8	45/49 (92%)	41 (91%)	3 (7%)	1 (2%)	5	25
55	M5	62/65 (95%)	52 (84%)	7 (11%)	3 (5%)	2	11
55	Q8	62/65 (95%)	48 (77%)	10 (16%)	4 (6%)	1	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	10778/12104 (89%)	9303 (86%)	1246 (12%)	229 (2%)	5	26

All (229) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
11	2I	91	ARG
18	9I	22	VAL
19	AI	67	VAL
29	11	28	GLU
29	11	40	THR
29	11	240	ALA
30	21	83	ASP
37	78	15	ARG
37	78	19	VAL
37	78	25	SER
42	C8	89	GLU
46	G8	81	LYS
55	Q8	52	LYS
9	82	118	LYS
20	BA	73	HIS
29	19	237	GLU
30	29	25	VAL
31	39	28	ILE
31	39	124	LEU
38	45	27	VAL
39	55	107	ASP
46	C5	29	GLU
47	D5	53	ILE
47	D5	165	VAL
48	E5	33	ALA
49	F5	30	VAL
50	G5	48	HIS
55	M5	49	VAL
2	1E	10	LEU
4	3E	88	VAL
8	7E	86	ILE
29	11	122	ASP
29	11	273	ARG
30	21	78	LEU
33	51	10	PRO
33	51	155	SER
37	78	30	THR

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Mol	Chain	Res	Type
38	88	6	ARG
38	88	66	ILE
38	88	134	ARG
39	98	11	ASN
42	C8	90	VAL
42	C8	93	LYS
46	G8	54	LYS
47	H8	6	LYS
47	H8	61	LEU
47	H8	165	VAL
49	J8	91	LYS
50	K8	5	GLU
50	K8	48	HIS
52	M8	5	ILE
11	2A	48	ILE
12	3A	18	VAL
12	3A	26	ALA
19	AA	67	VAL
29	19	44	ASN
30	29	51	PHE
30	29	59	VAL
31	39	84	VAL
31	39	132	VAL
31	39	167	ALA
34	69	113	ARG
37	35	6	LEU
37	35	15	ARG
40	65	111	GLU
43	95	45	THR
46	C5	17	SER
48	E5	44	ARG
55	M5	34	TRP
55	M5	35	GLN
2	1E	237	ALA
10	1I	16	LEU
12	3I	48	PRO
29	11	30	GLU
30	21	82	ARG
30	21	118	LYS
31	31	18	ARG
33	51	84	SER
33	51	86	GLU

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Mol	Chain	Res	Type
35	58	95	PRO
35	58	97	ARG
37	78	6	LEU
38	88	7	MET
43	D8	45	THR
45	F8	40	LYS
47	H8	60	GLU
50	K8	47	ASN
52	M8	43	TYR
55	Q8	35	GLN
55	Q8	50	LEU
20	BA	49	ALA
29	19	39	LYS
29	19	239	ARG
30	29	81	ILE
31	39	25	PRO
31	39	54	ARG
33	59	171	LEU
34	69	143	SER
36	25	5	GLN
37	35	34	GLY
38	45	60	ARG
42	85	93	LYS
42	85	96	ALA
43	95	80	GLN
44	A5	44	ALA
46	C5	89	PHE
46	C5	99	CYS
49	F5	93	GLU
2	1E	238	LEU
4	3E	155	LEU
9	8E	94	ALA
19	AI	41	VAL
29	11	3	VAL
29	11	27	THR
29	11	29	PRO
29	11	272	ALA
30	21	60	ASN
32	41	74	LYS
32	41	97	ASP
33	51	12	PRO
33	51	85	LYS

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Mol	Chain	Res	Type
33	51	156	ALA
33	51	169	VAL
35	58	128	HIS
37	78	14	LYS
41	B8	11	GLU
41	B8	84	GLN
43	D8	44	LYS
46	G8	42	VAL
47	H8	59	LEU
49	J8	76	ARG
50	K8	43	GLN
55	Q8	47	LYS
2	12	191	ASP
4	32	73	ARG
9	82	87	GLN
29	19	45	ASN
30	29	9	VAL
30	29	82	ARG
32	49	102	PHE
33	59	73	ALA
35	15	127	ASP
37	35	136	GLU
38	45	13	GLN
40	65	55	ALA
40	65	110	LEU
43	95	44	LYS
46	C5	19	LYS
46	C5	92	ASN
47	D5	161	VAL
2	1E	191	ASP
14	5I	14	PRO
14	5I	17	LYS
28	71	39	GLU
30	21	21	VAL
30	21	56	PRO
32	41	110	ALA
33	51	3	ARG
33	51	13	LYS
33	51	83	TYR
33	51	164	TYR
40	A8	4	LEU
42	C8	88	ILE

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Mol	Chain	Res	Type
47	H8	81	ARG
2	12	32	ILE
2	12	128	GLU
12	3A	19	ARG
12	3A	79	GLU
20	BA	10	LEU
31	39	128	ALA
32	49	47	LYS
33	59	60	ARG
34	69	80	PRO
35	15	128	HIS
45	B5	40	LYS
31	31	128	ALA
32	41	5	VAL
32	41	96	ARG
34	61	133	HIS
35	58	22	THR
38	88	60	ARG
38	88	79	LEU
46	G8	53	PRO
2	12	71	VAL
2	12	96	ARG
3	22	49	SER
4	32	28	SER
8	72	73	ASP
11	2A	101	SER
34	69	144	VAL
38	45	78	PRO
11	2I	82	VAL
29	11	123	ALA
33	51	92	ILE
46	G8	3	VAL
29	19	3	VAL
30	29	26	ILE
30	29	52	LEU
30	29	77	ILE
33	59	8	PRO
43	95	72	VAL
46	C5	85	VAL
10	1I	82	ILE
30	21	52	LEU
30	21	55	ASN

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Mol	Chain	Res	Type
47	H8	53	ILE
47	H8	141	VAL
30	29	62	PRO
35	15	135	PRO
45	B5	51	VAL
5	4E	115	VAL
29	11	36	PRO
37	78	7	ARG
43	D8	47	VAL
2	12	39	ILE
4	32	56	VAL
13	4A	84	ILE
33	59	167	GLU
37	78	95	VAL
54	P8	46	VAL
12	3A	47	LYS
29	19	118	VAL
33	59	169	VAL
34	69	133	HIS
2	1E	232	PRO
33	51	167	GLU
38	88	27	VAL
30	29	61	ARG
46	G8	82	PRO

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	
2	12	180/220 (82%)	179 (99%)	1 (1%)	78	81
2	1E	200/220 (91%)	200 (100%)	0	100	100
3	22	153/188 (81%)	153 (100%)	0	100	100
3	2E	159/188 (85%)	159 (100%)	0	100	100
4	32	180/181 (99%)	178 (99%)	2 (1%)	65	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	3E	179/181 (99%)	178 (99%)	1 (1%)	78	81
5	42	114/123 (93%)	114 (100%)	0	100	100
5	4E	115/123 (94%)	114 (99%)	1 (1%)	70	77
6	52	90/90 (100%)	90 (100%)	0	100	100
6	5E	90/90 (100%)	89 (99%)	1 (1%)	65	75
7	62	114/127 (90%)	113 (99%)	1 (1%)	70	77
7	6E	125/127 (98%)	125 (100%)	0	100	100
8	72	118/119 (99%)	118 (100%)	0	100	100
8	7E	119/119 (100%)	118 (99%)	1 (1%)	73	78
9	82	79/99 (80%)	78 (99%)	1 (1%)	61	73
9	8E	97/99 (98%)	97 (100%)	0	100	100
10	1A	52/92 (56%)	51 (98%)	1 (2%)	50	69
10	1I	65/92 (71%)	64 (98%)	1 (2%)	57	72
11	2A	85/99 (86%)	84 (99%)	1 (1%)	63	74
11	2I	84/99 (85%)	84 (100%)	0	100	100
12	3A	102/109 (94%)	102 (100%)	0	100	100
12	3I	103/109 (94%)	103 (100%)	0	100	100
13	4A	91/101 (90%)	91 (100%)	0	100	100
13	4I	94/101 (93%)	94 (100%)	0	100	100
14	5A	40/50 (80%)	40 (100%)	0	100	100
14	5I	49/50 (98%)	49 (100%)	0	100	100
15	6A	79/80 (99%)	78 (99%)	1 (1%)	61	73
15	6I	79/80 (99%)	79 (100%)	0	100	100
16	7A	72/74 (97%)	72 (100%)	0	100	100
16	7I	69/74 (93%)	69 (100%)	0	100	100
17	8A	94/97 (97%)	94 (100%)	0	100	100
17	8I	95/97 (98%)	95 (100%)	0	100	100
18	9A	58/77 (75%)	58 (100%)	0	100	100
18	9I	58/77 (75%)	58 (100%)	0	100	100
19	AA	31/80 (39%)	31 (100%)	0	100	100
19	AI	71/80 (89%)	71 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	BA	76/82 (93%)	76 (100%)	0	100	100
20	BI	75/82 (92%)	75 (100%)	0	100	100
21	1B	19/22 (86%)	18 (95%)	1 (5%)	20	49
21	1F	18/22 (82%)	18 (100%)	0	100	100
28	71	111/181 (61%)	111 (100%)	0	100	100
29	11	214/218 (98%)	214 (100%)	0	100	100
29	19	214/218 (98%)	214 (100%)	0	100	100
30	21	165/166 (99%)	164 (99%)	1 (1%)	78	81
30	29	165/166 (99%)	165 (100%)	0	100	100
31	31	161/166 (97%)	161 (100%)	0	100	100
31	39	163/166 (98%)	163 (100%)	0	100	100
32	41	153/156 (98%)	153 (100%)	0	100	100
32	49	153/156 (98%)	152 (99%)	1 (1%)	76	80
33	51	142/148 (96%)	142 (100%)	0	100	100
33	59	56/148 (38%)	56 (100%)	0	100	100
34	61	122/124 (98%)	122 (100%)	0	100	100
34	69	122/124 (98%)	122 (100%)	0	100	100
35	15	116/119 (98%)	114 (98%)	2 (2%)	53	70
35	58	117/119 (98%)	117 (100%)	0	100	100
36	25	100/100 (100%)	100 (100%)	0	100	100
36	68	100/100 (100%)	100 (100%)	0	100	100
37	35	115/116 (99%)	115 (100%)	0	100	100
37	78	114/116 (98%)	114 (100%)	0	100	100
38	45	109/111 (98%)	106 (97%)	3 (3%)	38	63
38	88	109/111 (98%)	109 (100%)	0	100	100
39	55	101/101 (100%)	100 (99%)	1 (1%)	68	76
39	98	101/101 (100%)	101 (100%)	0	100	100
40	65	87/88 (99%)	87 (100%)	0	100	100
40	A8	87/88 (99%)	86 (99%)	1 (1%)	65	75
41	75	119/127 (94%)	115 (97%)	4 (3%)	32	60
41	B8	118/127 (93%)	115 (98%)	3 (2%)	42	65

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	85	93/94 (99%)	93 (100%)	0	100	100
42	C8	92/94 (98%)	91 (99%)	1 (1%)	65	75
43	95	81/82 (99%)	81 (100%)	0	100	100
43	D8	82/82 (100%)	81 (99%)	1 (1%)	63	74
44	A5	90/92 (98%)	88 (98%)	2 (2%)	45	67
44	E8	90/92 (98%)	90 (100%)	0	100	100
45	B5	74/78 (95%)	74 (100%)	0	100	100
45	F8	74/78 (95%)	74 (100%)	0	100	100
46	C5	85/91 (93%)	85 (100%)	0	100	100
46	G8	84/91 (92%)	84 (100%)	0	100	100
47	D5	118/179 (66%)	117 (99%)	1 (1%)	73	78
47	H8	137/179 (76%)	137 (100%)	0	100	100
48	E5	62/67 (92%)	62 (100%)	0	100	100
48	I8	61/67 (91%)	61 (100%)	0	100	100
49	F5	79/83 (95%)	79 (100%)	0	100	100
49	J8	79/83 (95%)	79 (100%)	0	100	100
50	G5	62/67 (92%)	62 (100%)	0	100	100
50	K8	62/67 (92%)	60 (97%)	2 (3%)	34	61
51	H5	50/52 (96%)	50 (100%)	0	100	100
51	L8	50/52 (96%)	50 (100%)	0	100	100
52	M8	42/63 (67%)	42 (100%)	0	100	100
53	J5	48/52 (92%)	47 (98%)	1 (2%)	47	67
53	N8	43/52 (83%)	43 (100%)	0	100	100
54	L5	38/42 (90%)	37 (97%)	1 (3%)	40	64
54	P8	38/42 (90%)	37 (97%)	1 (3%)	40	64
55	M5	54/55 (98%)	54 (100%)	0	100	100
55	Q8	54/55 (98%)	54 (100%)	0	100	100
All	All	9127/10012 (91%)	9087 (100%)	40 (0%)	84	84

All (40) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	3E	127	THR

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Mol	Chain	Res	Type
5	4E	140	ARG
6	5E	43	LEU
8	7E	102	ARG
10	1I	67	THR
30	2I	119	ARG
40	A8	20	ARG
41	B8	11	GLU
41	B8	50	ILE
41	B8	74	ARG
42	C8	108	GLU
43	D8	95	LEU
50	K8	48	HIS
50	K8	64	LEU
54	P8	29	LYS
2	12	170	GLU
4	32	191	ARG
4	32	193	ASP
7	62	45	ASP
9	82	117	HIS
10	1A	48	THR
11	2A	99	GLN
15	6A	62	GLN
21	1B	12	LYS
32	49	102	PHE
35	15	59	LYS
35	15	67	LEU
38	45	87	LYS
38	45	110	THR
38	45	116	GLU
39	55	81	ASP
41	75	11	GLU
41	75	12	SER
41	75	36	GLU
41	75	117	ASP
44	A5	39	THR
44	A5	100	THR
47	D5	40	ASP
53	J5	26	THR
54	L5	43	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (94) such sidechains are listed below:

Mol	Chain	Res	Type
2	1E	37	ASN
2	1E	45	GLN
2	1E	146	GLN
3	2E	37	GLN
3	2E	63	ASN
3	2E	118	GLN
4	3E	161	ASN
5	4E	141	GLN
6	5E	73	ASN
6	5E	94	GLN
7	6E	84	ASN
7	6E	97	GLN
10	1I	13	HIS
13	4I	12	ASN
28	7I	66	HIS
28	7I	225	ASN
29	11	126	GLN
29	11	129	ASN
29	11	201	HIS
29	11	227	ASN
29	11	253	GLN
30	21	54	GLN
30	21	143	ASN
30	21	180	ASN
31	31	67	GLN
31	31	204	ASN
32	41	58	GLN
34	61	104	GLN
35	58	69	GLN
37	78	70	GLN
38	88	13	GLN
38	88	141	GLN
39	98	71	GLN
40	A8	61	ASN
40	A8	84	GLN
42	C8	104	GLN
43	D8	11	GLN
44	E8	102	HIS
45	F8	55	ASN
47	H8	85	HIS
47	H8	132	ASN
52	M8	6	HIS
54	P8	36	GLN

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Mol	Chain	Res	Type
2	12	16	HIS
2	12	76	GLN
2	12	78	GLN
2	12	110	GLN
2	12	135	GLN
3	22	3	ASN
3	22	139	GLN
3	22	170	GLN
4	32	77	ASN
4	32	160	GLN
4	32	201	GLN
5	42	141	GLN
6	52	73	ASN
6	52	84	ASN
9	82	58	HIS
11	2A	22	HIS
11	2A	99	GLN
13	4A	77	ASN
13	4A	106	ASN
16	7A	76	GLN
16	7A	82	GLN
19	AA	56	GLN
19	AA	65	ASN
20	BA	18	GLN
29	19	44	ASN
29	19	46	GLN
29	19	227	ASN
30	29	35	GLN
30	29	55	ASN
30	29	121	ASN
31	39	40	GLN
31	39	67	GLN
31	39	133	ASN
32	49	40	ASN
32	49	79	ASN
32	49	121	ASN
34	69	74	ASN
34	69	105	HIS
35	15	94	HIS
35	15	101	HIS
35	15	131	GLN
35	15	133	GLN

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Mol	Chain	Res	Type
36	25	5	GLN
37	35	84	ASN
38	45	13	GLN
40	65	38	GLN
40	65	68	GLN
41	75	84	GLN
45	B5	87	GLN
47	D5	73	GLN
50	G5	48	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1488/1522 (97%)	388 (26%)	35 (2%)
1	1G	1493/1522 (98%)	431 (28%)	39 (2%)
22	1K	65/76 (85%)	42 (64%)	2 (3%)
23	2K	76/77 (98%)	23 (30%)	2 (2%)
23	2L	76/77 (98%)	21 (27%)	2 (2%)
24	3K	75/76 (98%)	40 (53%)	4 (5%)
25	4K	18/27 (66%)	10 (55%)	2 (11%)
25	4L	16/27 (59%)	9 (56%)	1 (6%)
26	14	2852/2912 (97%)	792 (27%)	58 (2%)
26	1H	2824/2912 (96%)	739 (26%)	78 (2%)
27	16	121/122 (99%)	27 (22%)	1 (0%)
27	1J	121/122 (99%)	41 (33%)	2 (1%)
56	1L	71/76 (93%)	40 (56%)	5 (7%)
57	3L	75/76 (98%)	40 (53%)	1 (1%)
All	All	9371/9624 (97%)	2643 (28%)	232 (2%)

All (2643) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	2	U
1	13	5	U
1	13	6	G
1	13	8	A
1	13	9	G
1	13	11	G
1	13	19	C
1	13	31	G
1	13	32	A

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Mol	Chain	Res	Type
1	13	33	A
1	13	39	G
1	13	47	C
1	13	48	C
1	13	49	U
1	13	50	A
1	13	51	A
1	13	52	G
1	13	61	G
1	13	63	C
1	13	65	U
1	13	66	G
1	13	68	G
1	13	69	G
1	13	74	C
1	13	76	G
1	13	95	G
1	13	96	G
1	13	97	U
1	13	99	C
1	13	101	A
1	13	103	C
1	13	115	G
1	13	116	A
1	13	121	C
1	13	129(A)	G
1	13	131	C
1	13	143	A
1	13	144	G
1	13	145	G
1	13	151	A
1	13	160	A
1	13	163	C
1	13	164	U
1	13	167	G
1	13	169	C
1	13	172	A
1	13	173	U
1	13	174	C
1	13	180	U
1	13	182	U
1	13	186(D)	C

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Mol	Chain	Res	Type
1	13	187	C
1	13	188	U
1	13	189	U
1	13	190	G
1	13	191(A)	G
1	13	193	C
1	13	195	A
1	13	197	A
1	13	199	G
1	13	201	C
1	13	208	U
1	13	209	U
1	13	210	U
1	13	216	G
1	13	243	A
1	13	245	C
1	13	247	G
1	13	250	A
1	13	251	G
1	13	256	U
1	13	257	G
1	13	262	A
1	13	266	G
1	13	267	C
1	13	289	G
1	13	299	G
1	13	321	A
1	13	324	G
1	13	328	C
1	13	329	A
1	13	330	C
1	13	332	G
1	13	341	C
1	13	343	U
1	13	344	A
1	13	347	G
1	13	352	C
1	13	353	A
1	13	354	G
1	13	356	A
1	13	357	G
1	13	363	A

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Mol	Chain	Res	Type
1	13	365	U
1	13	367	U
1	13	372	C
1	13	373	A
1	13	374	A
1	13	378	G
1	13	382	A
1	13	383	A
1	13	386	C
1	13	388	G
1	13	390	C
1	13	397	A
1	13	398	C
1	13	406	G
1	13	412	A
1	13	413	G
1	13	414	A
1	13	422	C
1	13	423	G
1	13	424	G
1	13	429	U
1	13	430	A
1	13	439	A
1	13	445	G
1	13	453	A
1	13	455	C
1	13	456	C
1	13	458	C
1	13	466	C
1	13	467	G
1	13	474	G
1	13	484	G
1	13	485	G
1	13	487	A
1	13	496	A
1	13	497	U
1	13	505	G
1	13	509	A
1	13	510	A
1	13	511	C
1	13	517	G
1	13	518	C

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Mol	Chain	Res	Type
1	13	519	C
1	13	524	G
1	13	527	G
1	13	531	U
1	13	533	A
1	13	534	U
1	13	536	C
1	13	547	A
1	13	550	G
1	13	559	A
1	13	560	U
1	13	561	U
1	13	572	A
1	13	573	A
1	13	576	G
1	13	577	G
1	13	582	U
1	13	592	G
1	13	606	G
1	13	607	A
1	13	616	G
1	13	620	C
1	13	630	G
1	13	631	G
1	13	632	A
1	13	650	G
1	13	653	A
1	13	655	A
1	13	659	U
1	13	661	G
1	13	665	A
1	13	666	G
1	13	675	A
1	13	687	A
1	13	688	G
1	13	704	A
1	13	721	G
1	13	723	U
1	13	724	G
1	13	734	G
1	13	749	C
1	13	752	G

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Mol	Chain	Res	Type
1	13	753	A
1	13	755	G
1	13	757	U
1	13	774	G
1	13	776	G
1	13	777	A
1	13	792	A
1	13	793	U
1	13	794	A
1	13	796	C
1	13	801	U
1	13	813	U
1	13	817	C
1	13	819	A
1	13	827	U
1	13	828	A
1	13	831	U
1	13	836	G
1	13	842	C
1	13	843	U
1	13	848	C
1	13	858	G
1	13	859	A
1	13	862	C
1	13	864	A
1	13	870	U
1	13	871	U
1	13	872	A
1	13	873	A
1	13	885	G
1	13	890	G
1	13	902	G
1	13	908	A
1	13	914	A
1	13	925	G
1	13	926	G
1	13	927	G
1	13	931	C
1	13	933	G
1	13	934	C
1	13	935	A
1	13	936	C

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Mol	Chain	Res	Type
1	13	938	A
1	13	940	C
1	13	948	C
1	13	958	A
1	13	960	U
1	13	966	G
1	13	968	A
1	13	969	A
1	13	971	G
1	13	974	A
1	13	975	A
1	13	976	G
1	13	977	A
1	13	978	A
1	13	983	A
1	13	984	C
1	13	993	G
1	13	1004	A
1	13	1006	C
1	13	1007	C
1	13	1008	C
1	13	1009	G
1	13	1010	G
1	13	1012	U
1	13	1021	G
1	13	1023	G
1	13	1024	G
1	13	1025	U
1	13	1027	C
1	13	1028	C
1	13	1028(B)	C
1	13	1029	G
1	13	1030	C
1	13	1031	G
1	13	1032(A)	G
1	13	1032(B)	G
1	13	1033	G
1	13	1036	G
1	13	1037	C
1	13	1039	C
1	13	1040	U
1	13	1042	G

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Mol	Chain	Res	Type
1	13	1046	A
1	13	1049	U
1	13	1054	C
1	13	1064	G
1	13	1065	U
1	13	1066	C
1	13	1081	G
1	13	1085	U
1	13	1094	G
1	13	1095	U
1	13	1101	A
1	13	1114	C
1	13	1121	U
1	13	1123	A
1	13	1124	G
1	13	1125	U
1	13	1126	U
1	13	1127	G
1	13	1129	C
1	13	1131	G
1	13	1133	G
1	13	1134	G
1	13	1136	U
1	13	1137	C
1	13	1138	G
1	13	1139	G
1	13	1141	C
1	13	1146	A
1	13	1152	A
1	13	1156	G
1	13	1157	A
1	13	1158	C
1	13	1159	U
1	13	1171	G
1	13	1177	G
1	13	1178	G
1	13	1179	A
1	13	1181	G
1	13	1184	G
1	13	1188	A
1	13	1189	C
1	13	1190	G

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Mol	Chain	Res	Type
1	13	1191	A
1	13	1193	G
1	13	1195	C
1	13	1196	U
1	13	1197	G
1	13	1201	A
1	13	1212	U
1	13	1213	A
1	13	1218	C
1	13	1225	A
1	13	1226	C
1	13	1227	A
1	13	1236	A
1	13	1238	A
1	13	1240	U
1	13	1241	G
1	13	1250	A
1	13	1253	G
1	13	1256	A
1	13	1257	U
1	13	1258	G
1	13	1259	C
1	13	1262	C
1	13	1263	C
1	13	1265	G
1	13	1272	G
1	13	1273	G
1	13	1275	A
1	13	1278	U
1	13	1279	A
1	13	1280	A
1	13	1285	A
1	13	1286	A
1	13	1287	A
1	13	1288	A
1	13	1290	G
1	13	1299	A
1	13	1300	G
1	13	1301	U
1	13	1302	U
1	13	1320	C
1	13	1322	C

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Mol	Chain	Res	Type
1	13	1323	G
1	13	1331	G
1	13	1336	C
1	13	1337	G
1	13	1338	G
1	13	1340	A
1	13	1347	G
1	13	1350	A
1	13	1360	A
1	13	1362(A)	C
1	13	1363	A
1	13	1364	U
1	13	1368	G
1	13	1370	G
1	13	1397	C
1	13	1398	A
1	13	1401	G
1	13	1409	C
1	13	1419	G
1	13	1442	G
1	13	1443	G
1	13	1446	A
1	13	1447	G
1	13	1449	C
1	13	1450	U
1	13	1451	A
1	13	1452	C
1	13	1453	G
1	13	1469	G
1	13	1475	G
1	13	1487	G
1	13	1492	A
1	13	1494	G
1	13	1497	G
1	13	1498	U
1	13	1499	A
1	13	1502	A
1	13	1503	A
1	13	1504	G
1	13	1506	U
1	13	1517	G
1	13	1529	G

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Mol	Chain	Res	Type
1	13	1530	G
22	1K	4	U
22	1K	5	C
22	1K	6	G
22	1K	7	U
22	1K	8	U
22	1K	9	A
22	1K	10	G
22	1K	11	C
22	1K	12	U
22	1K	13	C
22	1K	15	G
22	1K	18	G
22	1K	23	A
22	1K	24	G
22	1K	25	C
22	1K	26	A
22	1K	28	U
22	1K	30	G
22	1K	31	A
22	1K	34	U8U
22	1K	40	C
22	1K	41	A
22	1K	42	A
22	1K	43	U
22	1K	44	U
22	1K	49	G
22	1K	50	C
22	1K	51	A
22	1K	52	G
22	1K	54	5MU
22	1K	56	C
22	1K	59	A
22	1K	60	U
22	1K	61	C
22	1K	62	C
22	1K	63	U
22	1K	66	A
22	1K	67	C
22	1K	68	G
22	1K	70	C
22	1K	72	C

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Mol	Chain	Res	Type
22	1K	74	C
23	2K	2	G
23	2K	3	C
23	2K	6	G
23	2K	8	4SU
23	2K	9	G
23	2K	15	G
23	2K	16	C
23	2K	17	C
23	2K	18	C
23	2K	20	G
23	2K	21	U
23	2K	22	A
23	2K	23	G
23	2K	27	G
23	2K	28	U
23	2K	31	G
23	2K	48	U
23	2K	49	C
23	2K	53	G
23	2K	55	5MU
23	2K	57	C
23	2K	68	C
23	2K	77	A
24	3K	2	G
24	3K	3	G
24	3K	7	U
24	3K	9	A
24	3K	10	G
24	3K	13	C
24	3K	14	A
24	3K	15	G
24	3K	17	U
24	3K	18	G
24	3K	19	G
24	3K	20	U
24	3K	22	G
24	3K	23	A
24	3K	24	G
24	3K	26	A
24	3K	30	G
24	3K	34	U

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Mol	Chain	Res	Type
24	3K	35	U
24	3K	39	U
24	3K	40	C
24	3K	41	A
24	3K	42	A
24	3K	44	U
24	3K	45	G
24	3K	46	G
24	3K	47	U
24	3K	48	C
24	3K	50	C
24	3K	51	A
24	3K	55	U
24	3K	58	A
24	3K	59	A
24	3K	60	U
24	3K	61	C
24	3K	65	C
24	3K	66	A
24	3K	69	A
24	3K	72	C
24	3K	73	A
25	4K	9	G
25	4K	10	G
25	4K	11	U
25	4K	13	A
25	4K	14	A
25	4K	18	G
25	4K	19	A
25	4K	22	A
25	4K	23	A
25	4K	24	A
26	1H	6	A
26	1H	12	U
26	1H	14	A
26	1H	15	G
26	1H	34	C
26	1H	35	G
26	1H	37	C
26	1H	46	C
26	1H	51	G
26	1H	54	G

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Mol	Chain	Res	Type
26	1H	61	G
26	1H	63	U
26	1H	64	A
26	1H	71	A
26	1H	72	U
26	1H	74	A
26	1H	75	G
26	1H	83	G
26	1H	85	G
26	1H	101	G
26	1H	102	G
26	1H	114	U
26	1H	118	A
26	1H	119	A
26	1H	120	U
26	1H	123	G
26	1H	125	G
26	1H	126	A
26	1H	129	C
26	1H	138	G
26	1H	140	A
26	1H	146	G
26	1H	155	C
26	1H	162	U
26	1H	163	U
26	1H	164	U
26	1H	165	U
26	1H	171	G
26	1H	173	G
26	1H	177	G
26	1H	178	G
26	1H	181	A
26	1H	188	G
26	1H	196	A
26	1H	197	A
26	1H	199	A
26	1H	214	G
26	1H	215	G
26	1H	216	A
26	1H	222	A
26	1H	223	A
26	1H	227	A

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Mol	Chain	Res	Type
26	1H	228	A
26	1H	229	A
26	1H	233	A
26	1H	235	U
26	1H	242	G
26	1H	243	U
26	1H	248	G
26	1H	250	G
26	1H	252	G
26	1H	261	G
26	1H	264	C
26	1H	269	U
26	1H	270(E)	G
26	1H	270(K)	C
26	1H	270(M)	U
26	1H	270(O)	U
26	1H	270(P)	C
26	1H	270(R)	G
26	1H	270(Y)	G
26	1H	271(B)	G
26	1H	271(C)	U
26	1H	271	G
26	1H	274	G
26	1H	275	G
26	1H	277	C
26	1H	278	A
26	1H	295	G
26	1H	299	A
26	1H	308	G
26	1H	311	A
26	1H	318	C
26	1H	323	G
26	1H	324	A
26	1H	329	G
26	1H	330	A
26	1H	331	A
26	1H	344	G
26	1H	346	A
26	1H	347	A
26	1H	352	G
26	1H	354	G
26	1H	362	U

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Mol	Chain	Res	Type
26	1H	363	G
26	1H	364	C
26	1H	372	G
26	1H	382	G
26	1H	386	G
26	1H	396	G
26	1H	404	C
26	1H	405	U
26	1H	406	G
26	1H	411	G
26	1H	418	G
26	1H	421	U
26	1H	428	A
26	1H	444	C
26	1H	448	U
26	1H	452	G
26	1H	455	C
26	1H	457	A
26	1H	470	A
26	1H	471	A
26	1H	481	G
26	1H	482	A
26	1H	483	A
26	1H	491	G
26	1H	501	A
26	1H	504	U
26	1H	505	A
26	1H	508	G
26	1H	509	C
26	1H	529	A
26	1H	531	C
26	1H	532	A
26	1H	533	G
26	1H	546	C
26	1H	549	G
26	1H	563	G
26	1H	564	C
26	1H	570	G
26	1H	573	G
26	1H	575	A
26	1H	583	G
26	1H	586	A

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Mol	Chain	Res	Type
26	1H	587	C
26	1H	588	U
26	1H	603	A
26	1H	607	U
26	1H	613	U
26	1H	617	G
26	1H	621	A
26	1H	622	G
26	1H	627	A
26	1H	631	A
26	1H	632	A
26	1H	637	A
26	1H	640	C
26	1H	645	C
26	1H	646	A
26	1H	649	G
26	1H	650	C
26	1H	654	A
26	1H	654(A)	A
26	1H	654(P)	G
26	1H	654(Q)	C
26	1H	654(T)	A
26	1H	654(U)	A
26	1H	662	G
26	1H	663	G
26	1H	664	C
26	1H	665	C
26	1H	667	U
26	1H	686	G
26	1H	702	G
26	1H	704	G
26	1H	705	A
26	1H	708	C
26	1H	717	G
26	1H	726	G
26	1H	730	C
26	1H	738	G
26	1H	751	A
26	1H	752	A
26	1H	753	C
26	1H	762	U
26	1H	765	G

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Mol	Chain	Res	Type
26	1H	775	G
26	1H	776	G
26	1H	777	A
26	1H	779	U
26	1H	782	A
26	1H	784	A
26	1H	785	G
26	1H	788	A
26	1H	790	C
26	1H	791	C
26	1H	792	G
26	1H	793	A
26	1H	794	G
26	1H	797	C
26	1H	801	G
26	1H	805	G
26	1H	812	C
26	1H	824	A
26	1H	826	U
26	1H	827	U
26	1H	828	U
26	1H	836	G
26	1H	845	G
26	1H	846	C
26	1H	847	U
26	1H	859	G
26	1H	860	U
26	1H	866	A
26	1H	870	A
26	1H	879	G
26	1H	880	G
26	1H	881	G
26	1H	882	G
26	1H	894	C
26	1H	898	C
26	1H	899	A
26	1H	900	A
26	1H	901	A
26	1H	902	C
26	1H	906	G
26	1H	907	U
26	1H	910	A

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Mol	Chain	Res	Type
26	1H	912	C
26	1H	914	C
26	1H	917	A
26	1H	918	A
26	1H	926	A
26	1H	932	G
26	1H	936	C
26	1H	941	A
26	1H	945	A
26	1H	946	G
26	1H	953	A
26	1H	958	U
26	1H	959	A
26	1H	961	C
26	1H	974	G
26	1H	974(A)	C
26	1H	975	G
26	1H	983	A
26	1H	990	A
26	1H	993	G
26	1H	996	A
26	1H	997	G
26	1H	999	U
26	1H	1011	G
26	1H	1012	U
26	1H	1013	C
26	1H	1020	A
26	1H	1022	G
26	1H	1023	U
26	1H	1024	G
26	1H	1025	G
26	1H	1026	U
26	1H	1027	A
26	1H	1033	U
26	1H	1042	G
26	1H	1046	A
26	1H	1047	G
26	1H	1051	G
26	1H	1052	C
26	1H	1053	C
26	1H	1107	G
26	1H	1108	U

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Mol	Chain	Res	Type
26	1H	1109	C
26	1H	1110	G
26	1H	1112	G
26	1H	1113	U
26	1H	1122	G
26	1H	1126	A
26	1H	1127	A
26	1H	1128	A
26	1H	1129	A
26	1H	1130	U
26	1H	1135	C
26	1H	1136	G
26	1H	1138	G
26	1H	1139	G
26	1H	1142	U
26	1H	1142(A)	A
26	1H	1144	G
26	1H	1145	C
26	1H	1156	A
26	1H	1157	G
26	1H	1165	U
26	1H	1170	G
26	1H	1175	U
26	1H	1177	A
26	1H	1178	C
26	1H	1179	C
26	1H	1180	C
26	1H	1192	G
26	1H	1195	G
26	1H	1204	A
26	1H	1205	U
26	1H	1210	A
26	1H	1211	U
26	1H	1218	C
26	1H	1220	A
26	1H	1229(A)	G
26	1H	1234	U
26	1H	1236	G
26	1H	1244	G
26	1H	1245	G
26	1H	1248	G
26	1H	1250	G

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Mol	Chain	Res	Type
26	1H	1253	A
26	1H	1256	G
26	1H	1265	A
26	1H	1269	A
26	1H	1271	G
26	1H	1272	A
26	1H	1273	U
26	1H	1285	G
26	1H	1286	A
26	1H	1298	C
26	1H	1300	U
26	1H	1301	A
26	1H	1303	G
26	1H	1305	C
26	1H	1319	G
26	1H	1321	A
26	1H	1329	U
26	1H	1332	G
26	1H	1344	G
26	1H	1345	C
26	1H	1347	G
26	1H	1349	A
26	1H	1352	U
26	1H	1358	G
26	1H	1359	A
26	1H	1360	A
26	1H	1365	A
26	1H	1370	C
26	1H	1378	A
26	1H	1380	G
26	1H	1381	G
26	1H	1385	G
26	1H	1386	C
26	1H	1388	G
26	1H	1389	G
26	1H	1395	A
26	1H	1397	U
26	1H	1400	G
26	1H	1401	G
26	1H	1403	C
26	1H	1404	C
26	1H	1407	C

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Mol	Chain	Res	Type
26	1H	1416	G
26	1H	1417	C
26	1H	1420	U
26	1H	1421	G
26	1H	1428	C
26	1H	1429	G
26	1H	1430	C
26	1H	1431	U
26	1H	1437	C
26	1H	1438	U
26	1H	1444(A)	A
26	1H	1449	A
26	1H	1453	A
26	1H	1454	U
26	1H	1455	G
26	1H	1459	G
26	1H	1460	A
26	1H	1461	G
26	1H	1464	C
26	1H	1467	C
26	1H	1471	A
26	1H	1478	G
26	1H	1482	U
26	1H	1483	G
26	1H	1494	A
26	1H	1495	A
26	1H	1496	A
26	1H	1497	U
26	1H	1499	C
26	1H	1509	C
26	1H	1510	A
26	1H	1511	A
26	1H	1517	G
26	1H	1519	G
26	1H	1522	G
26	1H	1526	G
26	1H	1534	G
26	1H	1535	U
26	1H	1536	A
26	1H	1538	G
26	1H	1539	G
26	1H	1540	G

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Mol	Chain	Res	Type
26	1H	1543	A
26	1H	1544	C
26	1H	1545	A
26	1H	1548	C
26	1H	1554	A
26	1H	1558	A
26	1H	1559	G
26	1H	1560	G
26	1H	1566	A
26	1H	1569	A
26	1H	1578	U
26	1H	1580	A
26	1H	1585	C
26	1H	1586	A
26	1H	1606	G
26	1H	1607	C
26	1H	1608	A
26	1H	1609	A
26	1H	1610	A
26	1H	1617	C
26	1H	1618	A
26	1H	1620	G
26	1H	1625	C
26	1H	1628	G
26	1H	1632	A
26	1H	1647	G
26	1H	1648	C
26	1H	1651	G
26	1H	1661	G
26	1H	1664	A
26	1H	1673	U
26	1H	1674	G
26	1H	1675	C
26	1H	1677	A
26	1H	1678	G
26	1H	1682	G
26	1H	1694	C
26	1H	1695	G
26	1H	1699	G
26	1H	1729	A
26	1H	1730	U
26	1H	1731	G

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Mol	Chain	Res	Type
26	1H	1735	C
26	1H	1750	G
26	1H	1756	G
26	1H	1758	G
26	1H	1762	A
26	1H	1763	G
26	1H	1764	G
26	1H	1773	A
26	1H	1782	C
26	1H	1791	A
26	1H	1799	G
26	1H	1800	C
26	1H	1801	G
26	1H	1808	U
26	1H	1811	G
26	1H	1816	G
26	1H	1819	A
26	1H	1827	C
26	1H	1829	A
26	1H	1833	U
26	1H	1847	A
26	1H	1858	G
26	1H	1859	A
26	1H	1869	G
26	1H	1870	C
26	1H	1878	G
26	1H	1889	A
26	1H	1898	U
26	1H	1900	A
26	1H	1906	G
26	1H	1913	A
26	1H	1914	C
26	1H	1915	U
26	1H	1919	A
26	1H	1926	U
26	1H	1929	G
26	1H	1931	U
26	1H	1934	C
26	1H	1935	G
26	1H	1937	A
26	1H	1938	A
26	1H	1940	U

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Mol	Chain	Res	Type
26	1H	1955	U
26	1H	1956	U
26	1H	1957	C
26	1H	1963	U
26	1H	1967	C
26	1H	1969	A
26	1H	1970	A
26	1H	1971	A
26	1H	1972	A
26	1H	1978	A
26	1H	1982	C
26	1H	1992	G
26	1H	1993	U
26	1H	2004	G
26	1H	2021	C
26	1H	2023	G
26	1H	2030	A
26	1H	2031	A
26	1H	2033	A
26	1H	2035	G
26	1H	2040	C
26	1H	2043	C
26	1H	2049	G
26	1H	2052	G
26	1H	2055	C
26	1H	2056	G
26	1H	2057	A
26	1H	2060	A
26	1H	2061	G
26	1H	2067	G
26	1H	2068	U
26	1H	2069	G
26	1H	2086	U
26	1H	2092	U
26	1H	2096	U
26	1H	2099	U
26	1H	2108	C
26	1H	2110	G
26	1H	2111	C
26	1H	2112	G
26	1H	2113	U
26	1H	2114	A

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Mol	Chain	Res	Type
26	1H	2115	G
26	1H	2116	G
26	1H	2117	A
26	1H	2119	A
26	1H	2125	G
26	1H	2126	A
26	1H	2127	G
26	1H	2128	C
26	1H	2129	C
26	1H	2130	U
26	1H	2131	G
26	1H	2132	U
26	1H	2133	G
26	1H	2134	A
26	1H	2135	A
26	1H	2137	C
26	1H	2138	C
26	1H	2139	C
26	1H	2142	C
26	1H	2144	U
26	1H	2145	C
26	1H	2146	C
26	1H	2147	G
26	1H	2148	G
26	1H	2150	U
26	1H	2154	G
26	1H	2155	G
26	1H	2156	G
26	1H	2157	G
26	1H	2162	G
26	1H	2163	C
26	1H	2164	C
26	1H	2165	G
26	1H	2166	G
26	1H	2167	U
26	1H	2168	G
26	1H	2170	A
26	1H	2171	A
26	1H	2172	U
26	1H	2173	A
26	1H	2181	G
26	1H	2186	G

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Mol	Chain	Res	Type
26	1H	2190	G
26	1H	2192	G
26	1H	2193	G
26	1H	2198	A
26	1H	2199	A
26	1H	2210	G
26	1H	2211	G
26	1H	2212	A
26	1H	2213	U
26	1H	2215	G
26	1H	2217	G
26	1H	2224	G
26	1H	2225	A
26	1H	2232	U
26	1H	2238	G
26	1H	2239	G
26	1H	2240	C
26	1H	2246	G
26	1H	2259	G
26	1H	2267	A
26	1H	2271	G
26	1H	2273	A
26	1H	2275	C
26	1H	2280	G
26	1H	2283	C
26	1H	2287	A
26	1H	2288	A
26	1H	2291	U
26	1H	2295	C
26	1H	2305	A
26	1H	2307	G
26	1H	2308	G
26	1H	2309	A
26	1H	2310	A
26	1H	2311	A
26	1H	2314	C
26	1H	2315	G
26	1H	2320	A
26	1H	2321	G
26	1H	2324	C
26	1H	2325	G
26	1H	2326	C

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Mol	Chain	Res	Type
26	1H	2327	A
26	1H	2328	A
26	1H	2334	G
26	1H	2335	A
26	1H	2336	A
26	1H	2343	C
26	1H	2345	G
26	1H	2346	A
26	1H	2347	C
26	1H	2348	U
26	1H	2350	C
26	1H	2355	C
26	1H	2356	C
26	1H	2357	U
26	1H	2360	A
26	1H	2361	A
26	1H	2374	C
26	1H	2376	A
26	1H	2377	A
26	1H	2383	G
26	1H	2385	C
26	1H	2395	C
26	1H	2402	C
26	1H	2403	C
26	1H	2405	G
26	1H	2406	U
26	1H	2410	G
26	1H	2422	A
26	1H	2423	U
26	1H	2424	C
26	1H	2429	G
26	1H	2430	A
26	1H	2434	A
26	1H	2435	A
26	1H	2439	A
26	1H	2440	C
26	1H	2441	C
26	1H	2442	C
26	1H	2448	A
26	1H	2449	U
26	1H	2452	C
26	1H	2464	C

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Mol	Chain	Res	Type
26	1H	2468	G
26	1H	2469	A
26	1H	2474	C
26	1H	2476	A
26	1H	2477	C
26	1H	2478	A
26	1H	2480	C
26	1H	2482	G
26	1H	2496	C
26	1H	2502	G
26	1H	2505	G
26	1H	2506	U
26	1H	2518	A
26	1H	2529	G
26	1H	2531	A
26	1H	2554	U
26	1H	2555	U
26	1H	2566	A
26	1H	2567	G
26	1H	2573	C
26	1H	2577	A
26	1H	2582	G
26	1H	2586	C
26	1H	2587	A
26	1H	2593	U
26	1H	2602	A
26	1H	2609	U
26	1H	2610	C
26	1H	2611	U
26	1H	2612	C
26	1H	2615	U
26	1H	2618	G
26	1H	2629	A
26	1H	2634	G
26	1H	2636	U
26	1H	2643	G
26	1H	2654	A
26	1H	2665	A
26	1H	2673	G
26	1H	2682	U
26	1H	2683	C
26	1H	2689	U

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Mol	Chain	Res	Type
26	1H	2691	C
26	1H	2700	C
26	1H	2702	U
26	1H	2703	C
26	1H	2707	G
26	1H	2712(A)	A
26	1H	2713	A
26	1H	2718	G
26	1H	2719	G
26	1H	2726	U
26	1H	2733	A
26	1H	2736	G
26	1H	2744	G
26	1H	2756	U
26	1H	2757	A
26	1H	2758	A
26	1H	2761	G
26	1H	2764	A
26	1H	2765	A
26	1H	2766	G
26	1H	2778	A
26	1H	2779	U
26	1H	2781	A
26	1H	2787	C
26	1H	2789	C
26	1H	2790	A
26	1H	2791	C
26	1H	2792	G
26	1H	2793	G
26	1H	2794	C
26	1H	2795	G
26	1H	2797	U
26	1H	2798	C
26	1H	2801	A
26	1H	2802	G
26	1H	2803	C
26	1H	2807	G
26	1H	2820	A
26	1H	2821	A
26	1H	2830	G
26	1H	2833	G
26	1H	2834	G

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Mol	Chain	Res	Type
26	1H	2835	A
26	1H	2849	U
26	1H	2850	A
26	1H	2851	A
26	1H	2860	A
26	1H	2866	U
26	1H	2872	G
26	1H	2876	G
26	1H	2880	C
26	1H	2886	G
26	1H	2892	A
26	1H	2893	G
26	1H	2894	G
26	1H	2895	U
26	1H	2897	U
27	16	0	A
27	16	3	C
27	16	12	C
27	16	13	A
27	16	15	A
27	16	22	U
27	16	23	G
27	16	25	A
27	16	29	A
27	16	33	G
27	16	35	U
27	16	40	U
27	16	42	C
27	16	45	A
27	16	51	G
27	16	56	G
27	16	58	A
27	16	65	C
27	16	73	A
27	16	74	U
27	16	89	G
27	16	93	C
27	16	105	G
27	16	109	G
27	16	110	G
27	16	115	G
27	16	116	G

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Mol	Chain	Res	Type
1	1G	4	U
1	1G	5	U
1	1G	9	G
1	1G	10	A
1	1G	13	U
1	1G	32	A
1	1G	33	A
1	1G	39	G
1	1G	44	G
1	1G	47	C
1	1G	48	C
1	1G	50	A
1	1G	51	A
1	1G	54	C
1	1G	65	U
1	1G	76	G
1	1G	80	G
1	1G	81	G
1	1G	82	U
1	1G	88	C
1	1G	89	U
1	1G	90	C
1	1G	91	C
1	1G	92	G
1	1G	96	G
1	1G	101	A
1	1G	105	G
1	1G	115	G
1	1G	116	A
1	1G	121	C
1	1G	129	U
1	1G	131	C
1	1G	134	A
1	1G	142	G
1	1G	144	G
1	1G	147	G
1	1G	149	A
1	1G	153	C
1	1G	155	C
1	1G	163	C
1	1G	169	C
1	1G	173	U

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Mol	Chain	Res	Type
1	1G	174	C
1	1G	182	U
1	1G	184	G
1	1G	186	C
1	1G	186(F)	C
1	1G	187	C
1	1G	189	U
1	1G	190	G
1	1G	191(A)	G
1	1G	191(C)	G
1	1G	191(D)	U
1	1G	191(E)	G
1	1G	195	A
1	1G	196	A
1	1G	197	A
1	1G	198	G
1	1G	208	U
1	1G	209	U
1	1G	210	U
1	1G	216	G
1	1G	227	G
1	1G	247	G
1	1G	250	A
1	1G	251	G
1	1G	266	G
1	1G	267	C
1	1G	270	A
1	1G	275	G
1	1G	279	A
1	1G	280	C
1	1G	281	G
1	1G	289	G
1	1G	290	C
1	1G	298	A
1	1G	302	G
1	1G	305	G
1	1G	306	G
1	1G	318	G
1	1G	321	A
1	1G	326	G
1	1G	328	C
1	1G	329	A

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Mol	Chain	Res	Type
1	1G	332	G
1	1G	345	C
1	1G	346	G
1	1G	347	G
1	1G	350	G
1	1G	351	G
1	1G	352	C
1	1G	353	A
1	1G	354	G
1	1G	363	A
1	1G	367	U
1	1G	372	C
1	1G	381	C
1	1G	388	G
1	1G	397	A
1	1G	398	C
1	1G	406	G
1	1G	411	A
1	1G	412	A
1	1G	413	G
1	1G	414	A
1	1G	419	C
1	1G	421	U
1	1G	422	C
1	1G	423	G
1	1G	429	U
1	1G	431	A
1	1G	439	A
1	1G	442	C
1	1G	465	A
1	1G	466	C
1	1G	467	G
1	1G	475	G
1	1G	484	G
1	1G	485	G
1	1G	486	U
1	1G	492	G
1	1G	495	A
1	1G	496	A
1	1G	497	U
1	1G	505	G
1	1G	509	A

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Mol	Chain	Res	Type
1	1G	510	A
1	1G	511	C
1	1G	517	G
1	1G	518	C
1	1G	527	G
1	1G	530	G
1	1G	531	U
1	1G	532	A
1	1G	533	A
1	1G	536	C
1	1G	547	A
1	1G	549	C
1	1G	552	U
1	1G	558	G
1	1G	559	A
1	1G	561	U
1	1G	564	C
1	1G	566	G
1	1G	572	A
1	1G	573	A
1	1G	575	G
1	1G	576	G
1	1G	577	G
1	1G	587	G
1	1G	595	G
1	1G	596	C
1	1G	601	C
1	1G	607	A
1	1G	609	A
1	1G	614	A
1	1G	615	C
1	1G	618	C
1	1G	630	G
1	1G	631	G
1	1G	637	G
1	1G	644	G
1	1G	651	C
1	1G	652	U
1	1G	653	A
1	1G	659	U
1	1G	660	G
1	1G	661	G

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Mol	Chain	Res	Type
1	1G	663	A
1	1G	665	A
1	1G	669	U
1	1G	686	U
1	1G	687	A
1	1G	688	G
1	1G	700	G
1	1G	722	A
1	1G	723	U
1	1G	724	G
1	1G	731	G
1	1G	741	G
1	1G	746	A
1	1G	749	C
1	1G	750	G
1	1G	752	G
1	1G	755	G
1	1G	760	G
1	1G	764	C
1	1G	767	A
1	1G	769	G
1	1G	776	G
1	1G	777	A
1	1G	778	G
1	1G	787	A
1	1G	791	G
1	1G	793	U
1	1G	794	A
1	1G	816	A
1	1G	817	C
1	1G	818	G
1	1G	821	G
1	1G	828	A
1	1G	841	U
1	1G	842	C
1	1G	843	U
1	1G	848	C
1	1G	853	G
1	1G	857	C
1	1G	858	G
1	1G	859	A
1	1G	862	C

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Mol	Chain	Res	Type
1	1G	867	G
1	1G	870	U
1	1G	871	U
1	1G	873	A
1	1G	874	G
1	1G	884	U
1	1G	890	G
1	1G	914	A
1	1G	916	G
1	1G	917	G
1	1G	926	G
1	1G	927	G
1	1G	932	C
1	1G	934	C
1	1G	935	A
1	1G	938	A
1	1G	953	G
1	1G	954	G
1	1G	955	U
1	1G	958	A
1	1G	960	U
1	1G	961	U
1	1G	966	G
1	1G	968	A
1	1G	969	A
1	1G	971	G
1	1G	972	C
1	1G	973	G
1	1G	974	A
1	1G	975	A
1	1G	976	G
1	1G	977	A
1	1G	978	A
1	1G	979	C
1	1G	980	C
1	1G	982	U
1	1G	983	A
1	1G	989	C
1	1G	991	U
1	1G	992	U
1	1G	993	G
1	1G	995	C

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Mol	Chain	Res	Type
1	1G	996	A
1	1G	1001	G
1	1G	1004	A
1	1G	1005	A
1	1G	1006	C
1	1G	1009	G
1	1G	1017	G
1	1G	1019	C
1	1G	1023	G
1	1G	1024	G
1	1G	1025	U
1	1G	1026	G
1	1G	1037	C
1	1G	1038	C
1	1G	1040	U
1	1G	1041	A
1	1G	1042	G
1	1G	1046	A
1	1G	1047	G
1	1G	1050	G
1	1G	1052	U
1	1G	1053	G
1	1G	1054	C
1	1G	1055	A
1	1G	1056	U
1	1G	1064	G
1	1G	1081	G
1	1G	1082	G
1	1G	1084	G
1	1G	1085	U
1	1G	1086	U
1	1G	1088	G
1	1G	1091	U
1	1G	1094	G
1	1G	1095	U
1	1G	1096	C
1	1G	1098	C
1	1G	1099	G
1	1G	1101	A
1	1G	1105	A
1	1G	1110	A
1	1G	1113	C

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Mol	Chain	Res	Type
1	1G	1117	G
1	1G	1118	C
1	1G	1121	U
1	1G	1123	A
1	1G	1124	G
1	1G	1125	U
1	1G	1127	G
1	1G	1128	C
1	1G	1129	C
1	1G	1133	G
1	1G	1135	U
1	1G	1136	U
1	1G	1137	C
1	1G	1138	G
1	1G	1139	G
1	1G	1146	A
1	1G	1147	C
1	1G	1151	A
1	1G	1157	A
1	1G	1158	C
1	1G	1159	U
1	1G	1160	G
1	1G	1161	C
1	1G	1171	G
1	1G	1173	G
1	1G	1177	G
1	1G	1178	G
1	1G	1179	A
1	1G	1181	G
1	1G	1183	A
1	1G	1186	G
1	1G	1187	G
1	1G	1188	A
1	1G	1189	C
1	1G	1190	G
1	1G	1191	A
1	1G	1193	G
1	1G	1196	U
1	1G	1197	G
1	1G	1200	C
1	1G	1201	A
1	1G	1202	G

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Mol	Chain	Res	Type
1	1G	1209	C
1	1G	1211	U
1	1G	1212	U
1	1G	1213	A
1	1G	1214	C
1	1G	1216	G
1	1G	1218	C
1	1G	1225	A
1	1G	1226	C
1	1G	1227	A
1	1G	1238	A
1	1G	1240	U
1	1G	1241	G
1	1G	1256	A
1	1G	1257	U
1	1G	1258	G
1	1G	1260	C
1	1G	1263	C
1	1G	1267	C
1	1G	1268	A
1	1G	1270	C
1	1G	1273	G
1	1G	1274	G
1	1G	1279	A
1	1G	1280	A
1	1G	1286	A
1	1G	1287	A
1	1G	1288	A
1	1G	1289	A
1	1G	1293	G
1	1G	1295	G
1	1G	1296	C
1	1G	1297	C
1	1G	1299	A
1	1G	1300	G
1	1G	1301	U
1	1G	1305	G
1	1G	1317	C
1	1G	1320	C
1	1G	1322	C
1	1G	1323	G
1	1G	1331	G

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Mol	Chain	Res	Type
1	1G	1333	A
1	1G	1335	C
1	1G	1336	C
1	1G	1338	G
1	1G	1346	A
1	1G	1347	G
1	1G	1354	C
1	1G	1356	G
1	1G	1359	C
1	1G	1362(A)	C
1	1G	1364	U
1	1G	1368	G
1	1G	1369	C
1	1G	1370	G
1	1G	1377	A
1	1G	1379	G
1	1G	1381	U
1	1G	1392	G
1	1G	1397	C
1	1G	1400	C
1	1G	1401	G
1	1G	1402	C
1	1G	1406	U
1	1G	1419	G
1	1G	1442	G
1	1G	1443	G
1	1G	1446	A
1	1G	1448	C
1	1G	1450	U
1	1G	1451	A
1	1G	1452	C
1	1G	1453	G
1	1G	1454	G
1	1G	1485	U
1	1G	1491	G
1	1G	1492	A
1	1G	1493	A
1	1G	1497	G
1	1G	1499	A
1	1G	1502	A
1	1G	1503	A
1	1G	1504	G

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Mol	Chain	Res	Type
1	1G	1506	U
1	1G	1517	G
1	1G	1519	A
1	1G	1520	G
1	1G	1529	G
1	1G	1530	G
1	1G	1532	U
1	1G	1533	C
1	1G	1534	A
1	1G	1535	C
1	1G	1536	C
56	1L	2	G
56	1L	4	U
56	1L	5	C
56	1L	6	G
56	1L	7	U
56	1L	9	A
56	1L	10	G
56	1L	16	U
56	1L	17	U
56	1L	18	G
56	1L	19	G
56	1L	20	U
56	1L	23	A
56	1L	24	G
56	1L	25	C
56	1L	26	A
56	1L	33	U
56	1L	40	C
56	1L	41	A
56	1L	42	A
56	1L	43	U
56	1L	44	U
56	1L	45	G
56	1L	48	C
56	1L	49	G
56	1L	51	A
56	1L	56	C
56	1L	57	G
56	1L	58	A
56	1L	59	A
56	1L	61	C

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Mol	Chain	Res	Type
56	1L	63	U
56	1L	64	G
56	1L	65	C
56	1L	66	A
56	1L	67	C
56	1L	70	C
56	1L	72	C
56	1L	73	A
56	1L	74	C
23	2L	2	G
23	2L	8	4SU
23	2L	9	G
23	2L	13	C
23	2L	16	C
23	2L	18	C
23	2L	19	G
23	2L	20	G
23	2L	21	U
23	2L	22	A
23	2L	23	G
23	2L	32	G
23	2L	48	U
23	2L	49	C
23	2L	53	G
23	2L	54	G
23	2L	57	C
23	2L	61	U
23	2L	62	C
23	2L	68	C
23	2L	77	A
57	3L	4	U
57	3L	5	C
57	3L	6	G
57	3L	7	U
57	3L	8	U
57	3L	10	G
57	3L	11	C
57	3L	13	C
57	3L	14	A
57	3L	16	U
57	3L	17	U
57	3L	18	G

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Mol	Chain	Res	Type
57	3L	19	G
57	3L	20	U
57	3L	21	A
57	3L	22	G
57	3L	26	A
57	3L	31	A
57	3L	33	U
57	3L	34	U
57	3L	35	U
57	3L	36	U
57	3L	37	A
57	3L	43	U
57	3L	44	U
57	3L	45	G
57	3L	46	G
57	3L	47	U
57	3L	48	C
57	3L	49	G
57	3L	50	C
57	3L	58	A
57	3L	59	A
57	3L	60	U
57	3L	61	C
57	3L	64	G
57	3L	72	C
57	3L	73	A
57	3L	74	C
57	3L	76	A
25	4L	7	G
25	4L	9	G
25	4L	10	G
25	4L	11	U
25	4L	12	A
25	4L	13	A
25	4L	14	A
25	4L	15	A
25	4L	22	A
26	14	2	G
26	14	3	U
26	14	4	C
26	14	5	A
26	14	9	U

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Mol	Chain	Res	Type
26	14	11	G
26	14	14	A
26	14	15	G
26	14	34	C
26	14	35	G
26	14	46	C
26	14	49	A
26	14	50	U
26	14	58	G
26	14	59	U
26	14	60	G
26	14	71	A
26	14	72	U
26	14	74	A
26	14	75	G
26	14	90	U
26	14	91	A
26	14	93	C
26	14	95	G
26	14	99	U
26	14	101	G
26	14	102	G
26	14	107	C
26	14	118	A
26	14	119	A
26	14	120	U
26	14	125	G
26	14	129	C
26	14	136	G
26	14	138	G
26	14	139	G
26	14	140	A
26	14	153	C
26	14	154	G
26	14	161	U
26	14	162	U
26	14	172	C
26	14	173	G
26	14	174	C
26	14	175	G
26	14	181	A
26	14	182	A

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Mol	Chain	Res	Type
26	14	188	G
26	14	196	A
26	14	199	A
26	14	205	G
26	14	214	G
26	14	215	G
26	14	216	A
26	14	221	A
26	14	222	A
26	14	223	A
26	14	225	A
26	14	229	A
26	14	247	G
26	14	248	G
26	14	249	C
26	14	252	G
26	14	262	A
26	14	266	G
26	14	267	C
26	14	270(K)	C
26	14	270(L)	U
26	14	270(M)	U
26	14	270(N)	G
26	14	270(O)	U
26	14	270(P)	C
26	14	270(Y)	G
26	14	271(B)	G
26	14	271(C)	U
26	14	271	G
26	14	273(C)	C
26	14	273(D)	C
26	14	273(F)	C
26	14	274	G
26	14	275	G
26	14	276	A
26	14	278	A
26	14	279	C
26	14	289	A
26	14	290	G
26	14	292	C
26	14	294	A
26	14	311	A

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Mol	Chain	Res	Type
26	14	324	A
26	14	329	G
26	14	330	A
26	14	331	A
26	14	346	A
26	14	352	G
26	14	354	G
26	14	355	G
26	14	356	G
26	14	360	G
26	14	362	U
26	14	363	G
26	14	363(E)	U
26	14	363(F)	A
26	14	375	C
26	14	382	G
26	14	386	G
26	14	388	G
26	14	391	G
26	14	395	U
26	14	396	G
26	14	405	U
26	14	406	G
26	14	411	G
26	14	412	A
26	14	428	A
26	14	436	C
26	14	443	A
26	14	444	C
26	14	447	A
26	14	451	C
26	14	452	G
26	14	455	C
26	14	457	A
26	14	467	G
26	14	470	A
26	14	471	A
26	14	475	U
26	14	479	A
26	14	481	G
26	14	483	A
26	14	501	A

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Mol	Chain	Res	Type
26	14	504	U
26	14	505	A
26	14	507	A
26	14	508	G
26	14	509	C
26	14	512	G
26	14	527	C
26	14	529	A
26	14	530	G
26	14	531	C
26	14	532	A
26	14	533	G
26	14	543	C
26	14	546	C
26	14	547	A
26	14	549	G
26	14	556	G
26	14	563	G
26	14	568	U
26	14	570	G
26	14	573	G
26	14	575	A
26	14	599	G
26	14	603	A
26	14	606	U
26	14	607	U
26	14	609(A)	G
26	14	614	U
26	14	615	G
26	14	616	A
26	14	617	G
26	14	620	G
26	14	621	A
26	14	622	G
26	14	627	A
26	14	637	A
26	14	640	C
26	14	645	C
26	14	646	A
26	14	651	G
26	14	654	A
26	14	654(A)	A

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Mol	Chain	Res	Type
26	14	654(B)	C
26	14	654(C)	G
26	14	654(S)	G
26	14	654(T)	A
26	14	654(U)	A
26	14	668	G
26	14	669	G
26	14	670	A
26	14	682	G
26	14	686	G
26	14	709	U
26	14	717	G
26	14	722	A
26	14	723	G
26	14	730	C
26	14	731	C
26	14	738	G
26	14	739	G
26	14	740	U
26	14	745	G
26	14	747	U
26	14	748	G
26	14	751	A
26	14	752	A
26	14	753	C
26	14	765	G
26	14	770	G
26	14	771	G
26	14	776	G
26	14	779	U
26	14	782	A
26	14	783	A
26	14	784	A
26	14	785	G
26	14	788	A
26	14	790	C
26	14	792	G
26	14	793	A
26	14	800	A
26	14	805	G
26	14	808	G
26	14	812	C

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Mol	Chain	Res	Type
26	14	816	C
26	14	819	A
26	14	824	A
26	14	827	U
26	14	828	U
26	14	830	G
26	14	832	G
26	14	836	G
26	14	846	C
26	14	847	U
26	14	856	C
26	14	859	G
26	14	865	C
26	14	867	C
26	14	868	U
26	14	875	G
26	14	876	C
26	14	877	U
26	14	878	A
26	14	879	G
26	14	880	G
26	14	897	C
26	14	899	A
26	14	901	A
26	14	902	C
26	14	903	C
26	14	904	C
26	14	905	U
26	14	906	G
26	14	907	U
26	14	908	C
26	14	910	A
26	14	911	A
26	14	914	C
26	14	915	C
26	14	917	A
26	14	918	A
26	14	919	G
26	14	920	G
26	14	925	C
26	14	928	G
26	14	930	U

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Mol	Chain	Res	Type
26	14	931	G
26	14	932	G
26	14	938	G
26	14	941	A
26	14	945	A
26	14	946	G
26	14	953	A
26	14	958	U
26	14	959	A
26	14	960	A
26	14	961	C
26	14	974	G
26	14	978	G
26	14	980	A
26	14	983	A
26	14	990	A
26	14	996	A
26	14	999	U
26	14	1009	A
26	14	1010	A
26	14	1012	U
26	14	1013	C
26	14	1017	G
26	14	1020	A
26	14	1022	G
26	14	1023	U
26	14	1025	G
26	14	1026	U
26	14	1027	A
26	14	1033	U
26	14	1037	G
26	14	1042	G
26	14	1044	G
26	14	1048	A
26	14	1050	A
26	14	1052	C
26	14	1054	A
26	14	1055	G
26	14	1056	G
26	14	1057	A
26	14	1060	U
26	14	1061	U

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Mol	Chain	Res	Type
26	14	1062	G
26	14	1070	A
26	14	1071	G
26	14	1072	C
26	14	1073	A
26	14	1086	A
26	14	1087	G
26	14	1088	A
26	14	1089	G
26	14	1090	U
26	14	1091	G
26	14	1093	G
26	14	1100	C
26	14	1102	C
26	14	1103	A
26	14	1104	C
26	14	1105	U
26	14	1106	G
26	14	1107	G
26	14	1109	C
26	14	1110	G
26	14	1112	G
26	14	1114	G
26	14	1122	G
26	14	1126	A
26	14	1130	U
26	14	1131	G
26	14	1135	C
26	14	1136	G
26	14	1139	G
26	14	1143	A
26	14	1148	A
26	14	1155	A
26	14	1170	G
26	14	1171	G
26	14	1173	G
26	14	1174	A
26	14	1175	U
26	14	1176	G
26	14	1177	A
26	14	1178	C
26	14	1183	G

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Mol	Chain	Res	Type
26	14	1188	U
26	14	1204	A
26	14	1205	U
26	14	1210	A
26	14	1212	G
26	14	1213	A
26	14	1220	A
26	14	1221	C
26	14	1229(A)	G
26	14	1237	A
26	14	1241	A
26	14	1250	G
26	14	1252	G
26	14	1253	A
26	14	1256	G
26	14	1262	A
26	14	1271	G
26	14	1272	A
26	14	1273	U
26	14	1274	A
26	14	1275	A
26	14	1285	G
26	14	1298	C
26	14	1300	U
26	14	1301	A
26	14	1303	G
26	14	1319	G
26	14	1321	A
26	14	1325	G
26	14	1329	U
26	14	1341	U
26	14	1345	C
26	14	1348	G
26	14	1349	A
26	14	1352	U
26	14	1359	A
26	14	1365	A
26	14	1368	G
26	14	1370	C
26	14	1378	A
26	14	1380	G
26	14	1385	G

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Mol	Chain	Res	Type
26	14	1386	C
26	14	1390	U
26	14	1403	C
26	14	1407	C
26	14	1408	C
26	14	1416	G
26	14	1417	C
26	14	1420	U
26	14	1421	G
26	14	1424	G
26	14	1425	G
26	14	1428	C
26	14	1444(A)	A
26	14	1445	C
26	14	1449	A
26	14	1449(A)	G
26	14	1451	C
26	14	1453	A
26	14	1454	U
26	14	1459	G
26	14	1460	A
26	14	1467	C
26	14	1471	A
26	14	1474	C
26	14	1475	G
26	14	1490	A
26	14	1491	G
26	14	1493	C
26	14	1506	C
26	14	1508	A
26	14	1509	C
26	14	1510	A
26	14	1515	C
26	14	1522	G
26	14	1524	G
26	14	1528	A
26	14	1533	C
26	14	1534	G
26	14	1535	U
26	14	1536	A
26	14	1537	C
26	14	1543	A

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Mol	Chain	Res	Type
26	14	1546	C
26	14	1554	A
26	14	1558	A
26	14	1559	G
26	14	1560	G
26	14	1565	C
26	14	1566	A
26	14	1569	A
26	14	1570	A
26	14	1578	U
26	14	1580	A
26	14	1583	A
26	14	1585	C
26	14	1586	A
26	14	1587	A
26	14	1588	C
26	14	1594	G
26	14	1598	C
26	14	1608	A
26	14	1609	A
26	14	1610	A
26	14	1616	A
26	14	1635	G
26	14	1644	C
26	14	1647	G
26	14	1648	C
26	14	1667	G
26	14	1669	A
26	14	1674	G
26	14	1675	C
26	14	1695	G
26	14	1696	G
26	14	1700	A
26	14	1701	A
26	14	1702	G
26	14	1703	G
26	14	1711	C
26	14	1725	G
26	14	1728	G
26	14	1729	A
26	14	1730	U
26	14	1731	G

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Mol	Chain	Res	Type
26	14	1735	C
26	14	1741	C
26	14	1743	G
26	14	1755	A
26	14	1756	G
26	14	1763	G
26	14	1764	G
26	14	1773	A
26	14	1776	G
26	14	1777	U
26	14	1780	A
26	14	1781	C
26	14	1782	C
26	14	1784	A
26	14	1786	A
26	14	1791	A
26	14	1800	C
26	14	1801	G
26	14	1816	G
26	14	1819	A
26	14	1820	U
26	14	1829	A
26	14	1830	C
26	14	1839	G
26	14	1840	G
26	14	1843	C
26	14	1847	A
26	14	1848	A
26	14	1858	G
26	14	1859	A
26	14	1860	G
26	14	1878	G
26	14	1885	A
26	14	1886	C
26	14	1888	G
26	14	1889	A
26	14	1897	G
26	14	1900	A
26	14	1904	G
26	14	1905	C
26	14	1906	G
26	14	1918	A

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Mol	Chain	Res	Type
26	14	1919	A
26	14	1920	C
26	14	1927	A
26	14	1929	G
26	14	1930	G
26	14	1934	C
26	14	1937	A
26	14	1938	A
26	14	1940	U
26	14	1944	U
26	14	1945	G
26	14	1951	U
26	14	1952	A
26	14	1955	U
26	14	1960	A
26	14	1963	U
26	14	1964	G
26	14	1967	C
26	14	1970	A
26	14	1971	A
26	14	1972	A
26	14	1985	G
26	14	1991	U
26	14	1992	G
26	14	1993	U
26	14	2004	G
26	14	2018	G
26	14	2021	C
26	14	2023	G
26	14	2031	A
26	14	2032	G
26	14	2033	A
26	14	2043	C
26	14	2049	G
26	14	2054	A
26	14	2055	C
26	14	2056	G
26	14	2057	A
26	14	2061	G
26	14	2062	A
26	14	2063	C
26	14	2069	G

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Mol	Chain	Res	Type
26	14	2074	U
26	14	2076	U
26	14	2082	A
26	14	2089	U
26	14	2099	U
26	14	2100	G
26	14	2108	C
26	14	2111	C
26	14	2114	A
26	14	2116	G
26	14	2117	A
26	14	2119	A
26	14	2120	G
26	14	2125	G
26	14	2126	A
26	14	2127	G
26	14	2128	C
26	14	2129	C
26	14	2130	U
26	14	2131	G
26	14	2132	U
26	14	2133	G
26	14	2134	A
26	14	2135	A
26	14	2136	C
26	14	2137	C
26	14	2139	C
26	14	2140	C
26	14	2144	U
26	14	2145	C
26	14	2146	C
26	14	2147	G
26	14	2148	G
26	14	2149	G
26	14	2151	G
26	14	2153	G
26	14	2157	G
26	14	2158	A
26	14	2159	G
26	14	2162	G
26	14	2164	C
26	14	2165	G

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Mol	Chain	Res	Type
26	14	2166	G
26	14	2167	U
26	14	2168	G
26	14	2172	U
26	14	2173	A
26	14	2174	C
26	14	2175	C
26	14	2179	C
26	14	2189	U
26	14	2190	G
26	14	2191	G
26	14	2192	G
26	14	2198	A
26	14	2207	C
26	14	2210	G
26	14	2211	G
26	14	2212	A
26	14	2213	U
26	14	2215	G
26	14	2225	A
26	14	2226	C
26	14	2229	C
26	14	2234	G
26	14	2235	G
26	14	2238	G
26	14	2239	G
26	14	2252	G
26	14	2263	C
26	14	2267	A
26	14	2268	A
26	14	2269	A
26	14	2273	A
26	14	2275	C
26	14	2276	G
26	14	2278	A
26	14	2280	G
26	14	2281	C
26	14	2283	C
26	14	2287	A
26	14	2288	A
26	14	2289	G
26	14	2291	U

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Mol	Chain	Res	Type
26	14	2293	C
26	14	2298	A
26	14	2304	G
26	14	2305	A
26	14	2307	G
26	14	2308	G
26	14	2310	A
26	14	2311	A
26	14	2312	U
26	14	2318	G
26	14	2319	G
26	14	2321	G
26	14	2325	G
26	14	2326	C
26	14	2327	A
26	14	2329	G
26	14	2334	G
26	14	2336	A
26	14	2343	C
26	14	2346	A
26	14	2347	C
26	14	2348	U
26	14	2350	C
26	14	2354	G
26	14	2357	U
26	14	2372	G
26	14	2383	G
26	14	2385	C
26	14	2389	G
26	14	2392	A
26	14	2402	C
26	14	2406	U
26	14	2407	G
26	14	2411	A
26	14	2413	G
26	14	2414	G
26	14	2415	G
26	14	2417	C
26	14	2418	A
26	14	2422	A
26	14	2423	U
26	14	2429	G

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Mol	Chain	Res	Type
26	14	2430	A
26	14	2431	U
26	14	2434	A
26	14	2435	A
26	14	2439	A
26	14	2440	C
26	14	2441	C
26	14	2448	A
26	14	2449	U
26	14	2468	G
26	14	2469	A
26	14	2470	G
26	14	2474	C
26	14	2476	A
26	14	2477	C
26	14	2482	G
26	14	2487	G
26	14	2492	U
26	14	2497	A
26	14	2500	U
26	14	2502	G
26	14	2504	U
26	14	2505	G
26	14	2506	U
26	14	2507	C
26	14	2513	G
26	14	2518	A
26	14	2525	G
26	14	2529	G
26	14	2532	G
26	14	2537	U
26	14	2542	A
26	14	2543	G
26	14	2554	U
26	14	2564	A
26	14	2566	A
26	14	2567	G
26	14	2569	G
26	14	2573	C
26	14	2579	C
26	14	2587	A
26	14	2601	C

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Mol	Chain	Res	Type
26	14	2602	A
26	14	2609	U
26	14	2611	U
26	14	2612	C
26	14	2617	C
26	14	2630	G
26	14	2636	U
26	14	2646	C
26	14	2654	A
26	14	2665	A
26	14	2667	C
26	14	2672	G
26	14	2673	G
26	14	2679	A
26	14	2682	U
26	14	2689	U
26	14	2690	C
26	14	2691	C
26	14	2706	G
26	14	2707	G
26	14	2712(A)	A
26	14	2713	A
26	14	2714	G
26	14	2726	U
26	14	2733	A
26	14	2739	U
26	14	2748	A
26	14	2750	A
26	14	2751	G
26	14	2752	C
26	14	2757	A
26	14	2758	A
26	14	2761	G
26	14	2762	G
26	14	2764	A
26	14	2765	A
26	14	2766	G
26	14	2769	C
26	14	2777	G
26	14	2778	A
26	14	2779	U
26	14	2780	G

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Mol	Chain	Res	Type
26	14	2786	U
26	14	2790	A
26	14	2791	C
26	14	2795	G
26	14	2797	U
26	14	2798	C
26	14	2799	A
26	14	2801	A
26	14	2802	G
26	14	2805	G
26	14	2808	U
26	14	2810	A
26	14	2818	G
26	14	2820	A
26	14	2821	A
26	14	2833	G
26	14	2834	G
26	14	2835	A
26	14	2849	U
26	14	2860	A
26	14	2861	G
26	14	2872	G
26	14	2873	A
26	14	2874	C
26	14	2891	G
26	14	2893	G
26	14	2894	G
26	14	2895	U
26	14	2896	C
26	14	2898	U
26	14	2900	A
27	1J	0	A
27	1J	3	C
27	1J	7	G
27	1J	8	U
27	1J	12	C
27	1J	13	A
27	1J	15	A
27	1J	16	G
27	1J	22	U
27	1J	24	G
27	1J	26	A

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Mol	Chain	Res	Type
27	1J	28	C
27	1J	29	A
27	1J	30	C
27	1J	31	C
27	1J	40	U
27	1J	41	U
27	1J	42	C
27	1J	45	A
27	1J	47	C
27	1J	51	G
27	1J	52	A
27	1J	53	A
27	1J	58	A
27	1J	59	A
27	1J	63	G
27	1J	73	A
27	1J	75	G
27	1J	77	U
27	1J	88	C
27	1J	89	G
27	1J	89(A)	A
27	1J	90	C
27	1J	97	G
27	1J	101	A
27	1J	108	C
27	1J	109	G
27	1J	115	G
27	1J	116	G
27	1J	118	G
27	1J	119	A

All (232) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	13	5	U
1	13	31	G
1	13	115	G
1	13	173	U
1	13	181	G
1	13	188	U
1	13	244	U
1	13	266	G

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Mol	Chain	Res	Type
1	13	428	G
1	13	429	U
1	13	452	A
1	13	484	G
1	13	509	A
1	13	560	U
1	13	687	A
1	13	703	G
1	13	748	C
1	13	793	U
1	13	871	U
1	13	913	A
1	13	992	U
1	13	1054	C
1	13	1064	G
1	13	1065	U
1	13	1137	C
1	13	1183	A
1	13	1213	A
1	13	1285	A
1	13	1301	U
1	13	1336	C
1	13	1397	C
1	13	1443	G
1	13	1452	C
1	13	1498	U
1	13	1529	G
22	1K	6	G
22	1K	69	A
23	2K	48	U
23	2K	61	U
24	3K	2	G
24	3K	34	U
24	3K	58	A
24	3K	60	U
25	4K	13	A
25	4K	18	G
26	1H	34	C
26	1H	125	G
26	1H	162	U
26	1H	195	A
26	1H	196	A

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Mol	Chain	Res	Type
26	1H	222	A
26	1H	242	G
26	1H	249	C
26	1H	271(B)	G
26	1H	372	G
26	1H	404	C
26	1H	456	C
26	1H	479	A
26	1H	508	G
26	1H	574	C
26	1H	587	C
26	1H	627	A
26	1H	685	A
26	1H	752	A
26	1H	800	A
26	1H	845	G
26	1H	858	U
26	1H	880	G
26	1H	961	C
26	1H	974	G
26	1H	974(A)	C
26	1H	1022	G
26	1H	1026	U
26	1H	1033	U
26	1H	1050	A
26	1H	1052	C
26	1H	1108	U
26	1H	1110	G
26	1H	1128	A
26	1H	1175	U
26	1H	1176	G
26	1H	1177	A
26	1H	1178	C
26	1H	1210	A
26	1H	1378	A
26	1H	1379	A
26	1H	1396	U
26	1H	1416	G
26	1H	1420	U
26	1H	1508	A
26	1H	1558	A
26	1H	1559	G

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Mol	Chain	Res	Type
26	1H	1608	A
26	1H	1609	A
26	1H	1617	C
26	1H	1673	U
26	1H	1694	C
26	1H	1757	U
26	1H	1784	A
26	1H	1799	G
26	1H	1800	C
26	1H	1858	G
26	1H	1955	U
26	1H	1992	G
26	1H	2035	G
26	1H	2060	A
26	1H	2126	A
26	1H	2171	A
26	1H	2172	U
26	1H	2212	A
26	1H	2225	A
26	1H	2346	A
26	1H	2374	C
26	1H	2448	A
26	1H	2476	A
26	1H	2481	G
26	1H	2518	A
26	1H	2611	U
26	1H	2681	C
26	1H	2702	U
26	1H	2756	U
26	1H	2790	A
26	1H	2799	A
27	16	44	G
1	1G	64	G
1	1G	80	G
1	1G	115	G
1	1G	119	A
1	1G	197	A
1	1G	210	U
1	1G	250	A
1	1G	266	G
1	1G	274	A
1	1G	305	G

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Mol	Chain	Res	Type
1	1G	327	A
1	1G	345	C
1	1G	412	A
1	1G	465	A
1	1G	509	A
1	1G	560	U
1	1G	687	A
1	1G	748	C
1	1G	884	U
1	1G	889	A
1	1G	913	A
1	1G	992	U
1	1G	1023	G
1	1G	1053	G
1	1G	1126	U
1	1G	1137	C
1	1G	1145	C
1	1G	1157	A
1	1G	1225	A
1	1G	1285	A
1	1G	1300	G
1	1G	1346	A
1	1G	1347	G
1	1G	1396	A
1	1G	1442	G
1	1G	1443	G
1	1G	1452	C
1	1G	1498	U
1	1G	1506	U
56	1L	3	G
56	1L	18	G
56	1L	19	G
56	1L	48	C
56	1L	69	A
23	2L	20	G
23	2L	48	U
57	3L	58	A
25	4L	12	A
26	14	34	C
26	14	49	A
26	14	71	A
26	14	90	U

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Mol	Chain	Res	Type
26	14	128	C
26	14	222	A
26	14	265	A
26	14	278	A
26	14	387	U
26	14	446	G
26	14	503	A
26	14	528	A
26	14	529	A
26	14	614	U
26	14	669	G
26	14	752	A
26	14	764	A
26	14	784	A
26	14	827	U
26	14	858	U
26	14	959	A
26	14	960	A
26	14	1022	G
26	14	1220	A
26	14	1253	A
26	14	1379	A
26	14	1416	G
26	14	1420	U
26	14	1444(A)	A
26	14	1534	G
26	14	1558	A
26	14	1608	A
26	14	1609	A
26	14	1819	A
26	14	1899	G
26	14	1944	U
26	14	1955	U
26	14	1963	U
26	14	1992	G
26	14	2062	A
26	14	2107	C
26	14	2173	A
26	14	2238	G
26	14	2275	C
26	14	2335	A
26	14	2406	U

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Mol	Chain	Res	Type
26	14	2439	A
26	14	2447	G
26	14	2477	C
26	14	2611	U
26	14	2629	A
26	14	2756	U
26	14	2776	A
26	14	2778	A
26	14	2790	A
26	14	2859	G
26	14	2873	A
26	14	2893	G
27	1J	81	G
27	1J	88	C

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

19 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
56	PSU	1L	55	56	18,21,22	1.38	1 (5%)	21,30,33	1.98	4 (19%)
23	4SU	2K	8	23	18,21,22	1.93	3 (16%)	25,30,33	2.45	7 (28%)
23	PSU	2K	56	23	18,21,22	1.42	2 (11%)	21,30,33	2.67	5 (23%)
57	PSU	3L	39	57	18,21,22	1.15	1 (5%)	21,30,33	1.61	3 (14%)
23	4SU	2L	8	23	18,21,22	1.97	4 (22%)	25,30,33	2.91	7 (28%)
23	5MU	2K	55	23	19,22,23	4.02	5 (26%)	27,32,35	3.48	9 (33%)
23	OMC	2L	33	23	19,22,23	1.95	3 (15%)	25,31,34	1.56	4 (16%)
23	G7M	2K	47	23	23,26,27	2.56	7 (30%)	34,39,42	1.64	8 (23%)
23	5MU	2L	55	23	19,22,23	4.14	5 (26%)	27,32,35	3.17	11 (40%)
22	PSU	1K	55	22	18,21,22	1.28	1 (5%)	21,30,33	1.98	4 (19%)
22	5MU	1K	54	22	19,22,23	4.02	5 (26%)	27,32,35	2.89	9 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
56	5MU	1L	54	56	19,22,23	3.87	5 (26%)	27,32,35	3.25	11 (40%)
22	PSU	1K	39	22	18,21,22	1.13	2 (11%)	21,30,33	1.92	5 (23%)
23	PSU	2L	56	23	18,21,22	1.32	2 (11%)	21,30,33	1.97	4 (19%)
22	U8U	1K	34	22,25	20,24,25	2.50	6 (30%)	22,34,37	1.38	4 (18%)
56	PSU	1L	39	56	18,21,22	1.16	2 (11%)	21,30,33	1.59	5 (23%)
23	G7M	2L	47	23	23,26,27	2.49	8 (34%)	34,39,42	1.83	10 (29%)
22	T6A	1K	37	22	31,34,35	2.31	12 (38%)	43,49,52	3.28	19 (44%)
23	OMC	2K	33	23	19,22,23	1.66	3 (15%)	25,31,34	1.40	3 (12%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
56	PSU	1L	55	56	-	1/7/25/26	0/2/2/2
23	4SU	2K	8	23	-	0/7/25/26	0/2/2/2
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2
57	PSU	3L	39	57	-	0/7/25/26	0/2/2/2
23	4SU	2L	8	23	-	0/7/25/26	0/2/2/2
23	5MU	2K	55	23	-	2/7/25/26	0/2/2/2
23	OMC	2L	33	23	-	2/9/27/28	0/2/2/2
23	G7M	2K	47	23	-	3/7/25/26	0/3/3/3
23	5MU	2L	55	23	-	0/7/25/26	0/2/2/2
22	PSU	1K	55	22	-	0/7/25/26	0/2/2/2
22	5MU	1K	54	22	-	2/7/25/26	0/2/2/2
56	5MU	1L	54	56	-	0/7/25/26	0/2/2/2
22	PSU	1K	39	22	-	0/7/25/26	0/2/2/2
23	PSU	2L	56	23	-	0/7/25/26	0/2/2/2
22	U8U	1K	34	22,25	-	3/10/28/29	0/2/2/2
56	PSU	1L	39	56	-	2/7/25/26	0/2/2/2
23	G7M	2L	47	23	-	2/7/25/26	0/3/3/3
22	T6A	1K	37	22	-	5/23/41/42	0/3/3/3
23	OMC	2K	33	23	-	2/9/27/28	0/2/2/2

All (77) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	55	5MU	C2-N1	13.42	1.59	1.38
23	2K	55	5MU	C2-N1	13.26	1.59	1.38
22	1K	54	5MU	C2-N1	12.67	1.58	1.38
56	1L	54	5MU	C2-N1	12.26	1.57	1.38
23	2K	55	5MU	C2-N3	7.04	1.50	1.38
23	2K	8	4SU	C5-C4	6.61	1.50	1.42
23	2L	55	5MU	C2-N3	6.60	1.49	1.38
22	1K	54	5MU	C2-N3	6.48	1.49	1.38
23	2L	47	G7M	C4-N3	6.37	1.48	1.34
22	1K	54	5MU	C6-N1	6.24	1.48	1.38
22	1K	37	T6A	C10-N11	6.10	1.52	1.35
23	2K	55	5MU	C6-N1	6.00	1.48	1.38
56	1L	54	5MU	C4-N3	-5.99	1.27	1.38
23	2L	55	5MU	C4-C5	5.97	1.54	1.44
56	1L	54	5MU	C6-N1	5.91	1.48	1.38
23	2L	8	4SU	C5-C4	5.86	1.49	1.42
22	1K	37	T6A	C10-N6	5.75	1.50	1.37
23	2L	55	5MU	C6-N1	5.73	1.47	1.38
23	2L	33	OMC	C2-N3	5.69	1.47	1.36
22	1K	34	U8U	C2-S2	-5.68	1.58	1.67
23	2K	47	G7M	C4-N3	5.65	1.47	1.34
56	1L	54	5MU	C2-N3	5.63	1.47	1.38
22	1K	54	5MU	C4-C5	5.46	1.53	1.44
22	1K	34	U8U	C6-C5	5.42	1.50	1.35
22	1K	54	5MU	C4-N3	-5.31	1.28	1.38
23	2L	55	5MU	C4-N3	-5.30	1.28	1.38
23	2K	47	G7M	C2-N3	5.21	1.45	1.33
56	1L	54	5MU	C4-C5	5.13	1.53	1.44
23	2L	47	G7M	C2-N3	5.07	1.45	1.33
56	1L	55	PSU	C6-C5	5.07	1.40	1.35
23	2K	33	OMC	C2-N3	4.96	1.46	1.36
23	2L	33	OMC	C4-N4	4.87	1.45	1.33
23	2K	56	PSU	C6-C5	4.82	1.40	1.35
23	2K	47	G7M	C5-N7	-4.76	1.33	1.39
23	2K	55	5MU	C4-N3	-4.68	1.30	1.38
23	2K	55	5MU	C4-C5	4.57	1.52	1.44
22	1K	34	U8U	C6-N1	4.55	1.45	1.38
22	1K	55	PSU	C6-C5	4.54	1.40	1.35
23	2K	47	G7M	C5-C6	4.49	1.55	1.43
23	2L	47	G7M	C5-N7	-4.24	1.34	1.39
22	1K	37	T6A	C6-N6	4.24	1.48	1.39
23	2L	47	G7M	C2-N2	4.22	1.44	1.34
23	2K	47	G7M	C2-N2	4.02	1.43	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	47	G7M	C5-C6	4.00	1.54	1.43
23	2L	56	PSU	C6-C5	3.97	1.39	1.35
23	2K	33	OMC	C4-N4	3.87	1.43	1.33
22	1K	34	U8U	C2-N3	3.82	1.47	1.38
57	3L	39	PSU	C6-C5	3.74	1.39	1.35
23	2K	47	G7M	C6-N1	3.72	1.45	1.38
23	2L	8	4SU	C2-N1	3.67	1.44	1.38
56	1L	39	PSU	C6-C5	3.61	1.39	1.35
22	1K	37	T6A	C12-C13	3.36	1.57	1.52
22	1K	37	T6A	C12-N11	3.23	1.52	1.45
23	2K	47	G7M	C2-N1	3.11	1.45	1.37
22	1K	34	U8U	C4-N3	2.96	1.44	1.38
22	1K	34	U8U	C4-C5	2.92	1.52	1.45
23	2L	56	PSU	C2-N1	2.91	1.40	1.36
22	1K	37	T6A	C4-N3	2.90	1.39	1.34
23	2K	8	4SU	C2-N1	2.84	1.42	1.38
22	1K	39	PSU	C6-C5	2.83	1.38	1.35
23	2L	33	OMC	C5-C4	2.83	1.49	1.42
22	1K	37	T6A	C5-N7	-2.73	1.34	1.39
22	1K	37	T6A	C5-C6	-2.71	1.35	1.41
23	2L	8	4SU	C6-N1	2.70	1.44	1.38
23	2L	47	G7M	C2-N1	2.61	1.44	1.37
22	1K	37	T6A	C5-C4	-2.59	1.34	1.39
23	2L	8	4SU	C4-S4	-2.56	1.64	1.68
23	2K	33	OMC	C5-C4	2.52	1.48	1.42
23	2K	56	PSU	C4-C5	-2.47	1.37	1.44
23	2L	47	G7M	O6-C6	-2.44	1.18	1.23
23	2K	8	4SU	C6-N1	2.31	1.43	1.38
56	1L	39	PSU	C4-C5	-2.29	1.38	1.44
22	1K	39	PSU	O4'-C1'	-2.20	1.40	1.43
22	1K	37	T6A	ODA-C13	2.09	1.28	1.22
23	2L	47	G7M	C6-N1	2.08	1.42	1.38
22	1K	37	T6A	ODB-C13	-2.03	1.24	1.30
22	1K	37	T6A	C14-C12	2.00	1.59	1.53

All (132) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	1L	54	5MU	C5-C4-N3	10.73	124.65	115.32
22	1K	37	T6A	N3-C2-N1	-10.12	113.27	128.58
23	2K	55	5MU	C5-C4-N3	9.41	123.50	115.32
23	2L	8	4SU	C4-N3-C2	-9.19	118.50	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	1K	54	5MU	C5-C4-N3	8.97	123.12	115.32
23	2L	55	5MU	C5-C4-N3	8.79	122.97	115.32
23	2K	55	5MU	O4-C4-C5	-8.69	114.98	124.92
23	2L	8	4SU	C5-C4-N3	8.44	122.60	114.75
23	2K	8	4SU	C4-N3-C2	-8.23	119.42	127.31
22	1K	37	T6A	C12-N11-C10	8.16	135.56	121.99
23	2K	56	PSU	C6-N1-C2	-7.33	115.89	122.69
23	2K	56	PSU	N1-C2-N3	6.73	122.27	115.17
23	2K	55	5MU	C6-C5-C4	6.71	123.55	118.02
22	1K	37	T6A	N6-C10-N11	6.46	122.66	113.77
23	2K	55	5MU	C4-N3-C2	-6.39	118.96	127.34
56	1L	54	5MU	C4-N3-C2	-6.33	119.04	127.34
22	1K	37	T6A	C5-C4-N3	-6.12	118.29	126.72
56	1L	54	5MU	C5-C6-N1	-6.00	116.79	123.31
23	2L	55	5MU	C4-N3-C2	-5.98	119.50	127.34
22	1K	37	T6A	N3-C4-N9	5.93	137.25	127.17
23	2L	55	5MU	C6-C5-C4	5.86	122.85	118.02
22	1K	54	5MU	O4-C4-C5	-5.49	118.64	124.92
56	1L	54	5MU	C6-C5-C4	5.26	122.35	118.02
23	2L	55	5MU	C5M-C5-C6	-5.20	115.81	122.85
23	2L	56	PSU	C4-N3-C2	-5.19	119.22	126.37
22	1K	37	T6A	C2-N3-C4	5.15	124.41	111.83
22	1K	54	5MU	C4-N3-C2	-5.06	120.70	127.34
56	1L	55	PSU	N1-C2-N3	5.03	120.47	115.17
23	2L	33	OMC	N4-C4-N3	5.01	126.86	117.91
56	1L	54	5MU	O4-C4-C5	-4.97	119.24	124.92
23	2K	55	5MU	C5-C6-N1	-4.92	117.97	123.31
22	1K	37	T6A	O10-C10-N6	-4.82	115.07	123.64
22	1K	39	PSU	C4-N3-C2	-4.74	119.83	126.37
23	2L	8	4SU	C5-C4-S4	-4.62	119.03	124.31
22	1K	54	5MU	C6-C5-C4	4.59	121.80	118.02
22	1K	55	PSU	N1-C2-N3	4.49	119.90	115.17
23	2L	55	5MU	O4-C4-C5	-4.44	119.83	124.92
23	2L	55	5MU	C5-C6-N1	-4.43	118.50	123.31
22	1K	37	T6A	N9-C8-N7	-4.39	107.71	113.94
22	1K	55	PSU	C6-N1-C2	-4.37	118.63	122.69
23	2L	55	5MU	C6-N1-C2	-4.36	116.96	121.30
23	2K	8	4SU	N3-C2-N1	4.36	120.56	114.89
22	1K	55	PSU	O2-C2-N1	-4.35	118.30	122.79
22	1K	39	PSU	N1-C2-N3	4.30	119.70	115.17
57	3L	39	PSU	C4-N3-C2	-4.28	120.47	126.37
23	2L	56	PSU	N1-C2-N3	4.18	119.57	115.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	1L	55	PSU	C6-N1-C2	-4.15	118.84	122.69
23	2K	47	G7M	C5-C4-N3	-4.08	120.44	128.15
56	1L	39	PSU	C4-N3-C2	-4.05	120.79	126.37
23	2K	8	4SU	C5-C4-N3	4.05	118.51	114.75
23	2K	33	OMC	N4-C4-N3	4.01	125.09	117.91
22	1K	54	5MU	C5-C6-N1	-4.00	118.97	123.31
23	2L	47	G7M	CN7-N7-C5	3.97	131.74	126.80
56	1L	55	PSU	C4-N3-C2	-3.93	120.95	126.37
22	1K	54	5MU	C5M-C5-C6	-3.89	117.58	122.85
23	2K	8	4SU	O2-C2-N1	-3.89	117.73	122.80
23	2L	47	G7M	C2-N3-C4	3.85	118.92	112.30
22	1K	54	5MU	C6-N1-C2	-3.84	117.48	121.30
23	2L	47	G7M	C5-C4-N3	-3.79	120.98	128.15
23	2K	56	PSU	C4-N3-C2	-3.68	121.31	126.37
23	2K	55	5MU	C6-N1-C2	-3.66	117.66	121.30
22	1K	37	T6A	C13-C12-N11	3.59	118.05	110.17
23	2K	8	4SU	C5-C4-S4	-3.58	120.21	124.31
22	1K	37	T6A	ODB-C13-ODA	-3.54	116.04	124.08
56	1L	55	PSU	O2-C2-N1	-3.54	119.14	122.79
23	2L	47	G7M	C5-C6-N1	3.51	119.10	111.84
23	2K	55	5MU	C5M-C5-C6	-3.51	118.11	122.85
22	1K	55	PSU	C4-N3-C2	-3.40	121.69	126.37
23	2K	56	PSU	O2-C2-N1	-3.37	119.31	122.79
22	1K	34	U8U	S2-C2-N3	-3.30	111.20	119.44
23	2L	47	G7M	CN7-N7-C8	-3.30	119.79	124.79
23	2L	55	5MU	N3-C2-N1	3.28	119.16	114.89
23	2L	8	4SU	N3-C2-N1	3.20	119.05	114.89
23	2L	33	OMC	C5-C4-N4	-3.19	115.05	120.63
23	2K	55	5MU	O2-C2-N1	-3.19	118.65	122.80
57	3L	39	PSU	N1-C2-N3	3.16	118.50	115.17
22	1K	39	PSU	O2-C2-N1	-3.14	119.55	122.79
23	2K	47	G7M	C2-N3-C4	3.13	117.69	112.30
22	1K	37	T6A	C4-N9-C8	3.11	109.00	105.74
22	1K	37	T6A	ODB-C13-C12	2.98	124.50	114.15
22	1K	37	T6A	C14-C12-C13	2.91	115.11	110.03
56	1L	54	5MU	C5M-C5-C6	-2.89	118.94	122.85
23	2L	56	PSU	C6-C5-C4	2.89	120.12	118.17
23	2K	33	OMC	C5-C4-N4	-2.87	115.61	120.63
23	2L	47	G7M	C2-N1-C6	-2.87	119.91	125.11
23	2K	47	G7M	O6-C6-C5	-2.84	121.67	128.01
56	1L	39	PSU	N1-C2-N3	2.82	118.14	115.17
22	1K	37	T6A	C5-N7-C8	2.76	107.79	103.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	2K	47	G7M	C2-N1-C6	-2.74	120.14	125.11
22	1K	37	T6A	C2-N1-C6	2.71	124.21	115.24
23	2L	55	5MU	O2-C2-N1	-2.70	119.29	122.80
23	2K	8	4SU	C6-C5-C4	2.68	122.28	119.95
22	1K	37	T6A	N6-C6-N1	2.66	124.42	117.54
23	2K	55	5MU	N3-C2-N1	2.65	118.34	114.89
22	1K	37	T6A	C4-C5-C6	2.62	118.96	116.78
23	2L	47	G7M	C1'-N9-C4	-2.61	118.78	126.49
23	2L	47	G7M	O6-C6-C5	-2.61	122.19	128.01
56	1L	54	5MU	N3-C2-N1	2.60	118.28	114.89
23	2L	33	OMC	C1'-N1-C2	2.59	124.16	118.44
56	1L	39	PSU	O2-C2-N1	-2.55	120.16	122.79
22	1K	54	5MU	O2-C2-N1	-2.52	119.52	122.80
23	2K	47	G7M	CN7-N7-C5	2.51	129.93	126.80
22	1K	34	U8U	C5-C4-N3	2.51	119.03	115.21
23	2K	47	G7M	N9-C4-N3	2.48	130.92	125.95
56	1L	39	PSU	O4-C4-C5	-2.46	117.89	124.01
56	1L	54	5MU	C6-N1-C2	-2.43	118.89	121.30
23	2K	8	4SU	C5-C6-N1	-2.42	117.90	121.84
56	1L	54	5MU	O2-C2-N1	-2.40	119.68	122.80
23	2L	55	5MU	C5M-C5-C4	2.39	121.34	118.78
22	1K	37	T6A	C5-C6-N1	2.39	120.71	118.15
22	1K	34	U8U	O4-C4-N3	-2.39	115.63	120.11
22	1K	39	PSU	C6-C5-C4	2.33	119.75	118.17
22	1K	54	5MU	N3-C2-N1	2.32	117.92	114.89
23	2L	56	PSU	C5-C6-N1	-2.31	118.93	122.14
23	2K	47	G7M	C6-C5-C4	2.30	122.98	119.01
23	2L	47	G7M	N9-C4-N3	2.29	130.54	125.95
23	2K	56	PSU	C6-C5-C4	2.28	119.71	118.17
22	1K	39	PSU	C6-N1-C2	-2.27	120.58	122.69
56	1L	54	5MU	C1'-N1-C6	2.27	124.88	121.15
22	1K	37	T6A	C6-C5-N7	-2.26	129.96	132.43
23	2K	33	OMC	C1'-N1-C6	-2.26	115.95	120.78
23	2K	47	G7M	CN7-N7-C8	-2.25	121.38	124.79
22	1K	34	U8U	C-C5-C6	-2.19	117.92	121.21
23	2L	33	OMC	C6-N1-C2	-2.15	116.83	120.46
23	2L	8	4SU	C1'-N1-C2	2.13	121.42	117.59
56	1L	54	5MU	O4-C4-N3	-2.13	116.11	120.11
57	3L	39	PSU	O4-C4-N3	-2.12	116.13	120.11
23	2L	55	5MU	C1'-N1-C2	2.10	121.36	117.59
23	2L	8	4SU	C1'-N1-C6	-2.09	116.31	120.78
23	2L	8	4SU	O2-C2-N3	-2.04	117.73	121.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	2L	47	G7M	N9-C8-N7	-2.01	107.61	112.48
56	1L	39	PSU	O4'-C1'-C2'	2.00	107.92	105.15

There are no chirality outliers.

All (24) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	1K	34	U8U	N-C-C5-C4
22	1K	34	U8U	N-C-C5-C6
22	1K	37	T6A	C13-C12-C14-O14
22	1K	37	T6A	C13-C12-C14-C15
23	2L	47	G7M	O4'-C4'-C5'-O5'
23	2K	55	5MU	C3'-C4'-C5'-O5'
22	1K	34	U8U	O4'-C4'-C5'-O5'
23	2K	55	5MU	O4'-C4'-C5'-O5'
22	1K	54	5MU	O4'-C4'-C5'-O5'
22	1K	54	5MU	C3'-C4'-C5'-O5'
23	2L	47	G7M	C3'-C4'-C5'-O5'
22	1K	37	T6A	N11-C12-C14-C15
56	1L	39	PSU	O4'-C4'-C5'-O5'
56	1L	55	PSU	O4'-C1'-C5-C4
23	2L	33	OMC	C3'-C4'-C5'-O5'
23	2L	33	OMC	O4'-C4'-C5'-O5'
23	2K	33	OMC	C3'-C2'-O2'-CM2
23	2K	47	G7M	C2'-C1'-N9-C4
23	2K	47	G7M	C2'-C1'-N9-C8
22	1K	37	T6A	C5-C6-N6-C10
22	1K	37	T6A	C14-C12-N11-C10
23	2K	47	G7M	C4'-C5'-O5'-P
56	1L	39	PSU	C3'-C4'-C5'-O5'
23	2K	33	OMC	C2'-C1'-N1-C2

There are no ring outliers.

12 monomers are involved in 24 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	2K	8	4SU	1	0
23	2L	8	4SU	1	0
23	2K	55	5MU	3	0
23	2L	33	OMC	1	0
23	2K	47	G7M	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	2L	55	5MU	3	0
22	1K	55	PSU	1	0
56	1L	54	5MU	2	0
22	1K	34	U8U	3	0
23	2L	47	G7M	3	0
22	1K	37	T6A	1	0
23	2K	33	OMC	3	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1188 ligands modelled in this entry, 1186 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
59	SF4	3E	301	4	0,12,12	-	-	-		
59	SF4	32	302	4	0,12,12	-	-	-		

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
59	SF4	3E	301	4	-	-	0/6/5/5
59	SF4	32	302	4	-	-	0/6/5/5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
59	32	302	SF4	4	0

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	4K	1
37	35	1
38	45	1
5	4E	1
38	88	1
4	3E	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4K	24:A	O3'	25:A	P	4.44
1	35	121:LYS	C	122:PRO	N	1.77
1	45	124:LYS	C	125:LEU	N	1.15
1	4E	69:VAL	C	70:PRO	N	1.12
1	88	124:LYS	C	125:LEU	N	1.12
1	3E	36:ARG	C	37:PRO	N	1.07

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, 95th 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 ²)	Q<0.9
1	13	1493/1522 (98%)	-0.64	47 (3%) 51 31	83, 129, 202, 287	0
1	1G	1496/1522 (98%)	-0.60	37 (2%) 58 37	100, 152, 223, 279	0
2	12	206/256 (80%)	-0.03	1 (0%) 87 75	173, 206, 218, 228	0
2	1E	231/256 (90%)	-0.39	0 100 100	140, 173, 197, 207	0
3	22	194/239 (81%)	-0.27	2 (1%) 79 62	172, 196, 209, 214	0
3	2E	205/239 (85%)	-0.24	6 (2%) 53 34	115, 136, 165, 176	0
4	32	208/209 (99%)	-0.08	5 (2%) 59 39	129, 152, 173, 183	0
4	3E	207/209 (99%)	-0.19	2 (0%) 79 62	104, 131, 154, 164	0
5	42	149/162 (91%)	0.00	0 100 100	138, 160, 177, 190	0
5	4E	149/162 (91%)	-0.05	5 (3%) 48 28	104, 125, 147, 155	0
6	52	101/101 (100%)	-0.42	0 100 100	119, 135, 156, 163	0
6	5E	100/101 (99%)	-0.40	0 100 100	103, 129, 149, 159	0
7	62	138/156 (88%)	0.21	8 (5%) 29 16	150, 164, 173, 181	0
7	6E	151/156 (96%)	0.03	11 (7%) 21 12	134, 150, 170, 179	0
8	72	137/138 (99%)	-0.10	0 100 100	136, 164, 180, 190	0
8	7E	138/138 (100%)	-0.08	3 (2%) 62 41	112, 138, 152, 161	0
9	82	105/128 (82%)	-0.09	1 (0%) 79 62	149, 196, 209, 221	0
9	8E	126/128 (98%)	-0.18	4 (3%) 50 30	111, 170, 192, 200	0
10	1A	60/105 (57%)	-0.28	1 (1%) 69 48	166, 193, 204, 205	0
10	1I	72/105 (68%)	-0.09	2 (2%) 55 34	112, 150, 193, 204	0
11	2A	113/129 (87%)	0.27	4 (3%) 47 28	118, 143, 157, 167	0
11	2I	111/129 (86%)	0.13	5 (4%) 38 22	102, 136, 151, 164	0
12	3A	121/132 (91%)	0.44	10 (8%) 17 10	119, 142, 165, 179	0
12	3I	122/132 (92%)	-0.02	5 (4%) 41 24	91, 102, 126, 160	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	4A	111/126 (88%)	0.26	10 (9%) 15 9	162, 187, 202, 212	0
13	4I	119/126 (94%)	-0.23	4 (3%) 48 28	111, 146, 162, 173	0
14	5A	48/61 (78%)	0.05	1 (2%) 63 42	170, 191, 208, 218	0
14	5I	60/61 (98%)	-0.63	0 100 100	107, 124, 141, 155	0
15	6A	87/89 (97%)	-0.40	0 100 100	123, 148, 167, 174	0
15	6I	87/89 (97%)	-0.71	0 100 100	106, 127, 148, 153	0
16	7A	84/88 (95%)	-0.30	1 (1%) 76 57	120, 139, 161, 184	0
16	7I	80/88 (90%)	-0.22	0 100 100	127, 140, 169, 180	0
17	8A	99/105 (94%)	-0.52	0 100 100	121, 143, 156, 159	0
17	8I	100/105 (95%)	-0.64	1 (1%) 79 62	117, 136, 148, 154	0
18	9A	67/88 (76%)	-0.24	0 100 100	128, 145, 163, 171	0
18	9I	67/88 (76%)	-0.30	1 (1%) 72 52	115, 134, 159, 164	0
19	AA	36/93 (38%)	0.39	2 (5%) 30 17	191, 209, 217, 223	0
19	AI	81/93 (87%)	-0.43	0 100 100	125, 148, 173, 183	0
20	BA	98/106 (92%)	-0.64	1 (1%) 79 62	107, 139, 163, 176	0
20	BI	97/106 (91%)	-0.29	0 100 100	135, 152, 181, 193	0
21	1B	23/27 (85%)	-0.71	0 100 100	157, 179, 187, 189	0
21	1F	23/27 (85%)	-0.86	0 100 100	119, 134, 143, 145	0
22	1K	64/76 (84%)	1.04	12 (18%) 3 2	112, 226, 251, 253	0
23	2K	72/77 (93%)	-0.65	0 100 100	94, 125, 153, 169	0
23	2L	72/77 (93%)	0.55	8 (11%) 10 6	100, 151, 178, 198	0
24	3K	76/76 (100%)	-0.59	0 100 100	96, 189, 207, 218	0
25	4K	20/27 (74%)	0.65	4 (20%) 3 2	96, 156, 196, 199	0
25	4L	17/27 (62%)	0.93	3 (17%) 4 2	131, 170, 208, 211	0
26	14	2861/2912 (98%)	-0.79	44 (1%) 72 52	72, 111, 235, 276	0
26	1H	2830/2912 (97%)	-0.92	24 (0%) 82 66	65, 97, 204, 287	0
27	16	122/122 (100%)	-1.10	0 100 100	92, 117, 143, 228	0
27	1J	122/122 (100%)	-0.85	0 100 100	117, 155, 179, 225	0
28	7I	135/229 (58%)	-0.37	0 100 100	149, 167, 190, 202	0
29	11	273/276 (98%)	0.18	22 (8%) 18 10	65, 90, 111, 122	0
29	19	273/276 (98%)	0.13	17 (6%) 26 15	74, 100, 121, 136	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
30	21	203/206 (98%)	0.12	4 (1%) 65 44	73, 112, 157, 172	0
30	29	203/206 (98%)	-0.38	2 (0%) 79 62	79, 116, 162, 178	0
31	31	202/210 (96%)	-0.37	3 (1%) 72 52	70, 102, 136, 155	0
31	39	204/210 (97%)	-0.18	8 (3%) 43 25	83, 128, 181, 201	0
32	41	179/182 (98%)	-0.50	4 (2%) 62 41	107, 128, 164, 174	0
32	49	179/182 (98%)	0.22	10 (5%) 30 17	151, 171, 195, 204	0
33	51	171/180 (95%)	0.13	7 (4%) 41 24	102, 128, 146, 157	0
33	59	69/180 (38%)	0.44	7 (10%) 12 7	170, 198, 213, 220	0
34	61	145/148 (97%)	-0.17	2 (1%) 73 53	102, 163, 188, 199	0
34	69	145/148 (97%)	-0.27	9 (6%) 26 15	111, 152, 176, 189	0
35	15	137/140 (97%)	0.14	7 (5%) 33 19	106, 134, 162, 179	0
35	58	138/140 (98%)	0.12	9 (6%) 25 14	86, 112, 154, 172	0
36	25	122/122 (100%)	-0.09	0 100 100	92, 113, 132, 142	0
36	68	122/122 (100%)	0.07	2 (1%) 70 50	81, 98, 118, 131	0
37	35	148/150 (98%)	0.15	11 (7%) 20 12	84, 135, 174, 190	0
37	78	147/150 (98%)	-0.23	4 (2%) 56 35	72, 104, 136, 144	0
38	45	138/141 (97%)	0.07	13 (9%) 14 8	99, 131, 151, 168	0
38	88	141/141 (100%)	-0.38	0 100 100	76, 101, 123, 153	0
39	55	118/118 (100%)	-0.72	0 100 100	87, 102, 118, 138	0
39	98	118/118 (100%)	-0.46	0 100 100	87, 109, 131, 147	0
40	65	110/112 (98%)	-0.56	0 100 100	116, 145, 164, 172	0
40	A8	111/112 (99%)	-0.66	0 100 100	93, 112, 135, 144	0
41	75	136/146 (93%)	-0.28	5 (3%) 45 26	102, 120, 169, 198	0
41	B8	135/146 (92%)	0.10	6 (4%) 39 22	92, 116, 166, 185	0
42	85	116/118 (98%)	-0.05	2 (1%) 69 48	90, 121, 154, 166	0
42	C8	115/118 (97%)	0.10	5 (4%) 40 23	77, 102, 130, 141	0
43	95	99/101 (98%)	0.22	5 (5%) 33 19	91, 152, 166, 174	0
43	D8	101/101 (100%)	-0.30	1 (0%) 79 62	78, 124, 149, 160	0
44	A5	110/113 (97%)	0.11	5 (4%) 38 22	84, 96, 127, 133	0
44	E8	110/113 (97%)	0.09	6 (5%) 30 17	79, 95, 125, 140	0
45	B5	94/96 (97%)	-0.28	3 (3%) 50 30	94, 110, 134, 144	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	F8	95/96 (98%)	-0.34	0 100 100	78, 93, 120, 133	0
46	C5	105/110 (95%)	0.56	7 (6%) 24 13	110, 143, 175, 185	0
46	G8	104/110 (94%)	0.27	2 (1%) 66 45	88, 116, 148, 161	0
47	D5	130/206 (63%)	-0.38	1 (0%) 82 66	138, 163, 188, 194	0
47	H8	148/206 (71%)	-0.39	1 (0%) 84 69	106, 140, 195, 207	0
48	E5	78/85 (91%)	-0.08	4 (5%) 33 19	99, 116, 136, 149	0
48	I8	76/85 (89%)	-0.66	1 (1%) 75 55	79, 95, 111, 130	0
49	F5	94/98 (95%)	0.06	3 (3%) 50 30	86, 109, 144, 159	0
49	J8	94/98 (95%)	-0.31	1 (1%) 78 60	79, 96, 143, 153	0
50	G5	67/72 (93%)	-0.31	0 100 100	113, 134, 152, 171	0
50	K8	68/72 (94%)	-0.12	0 100 100	82, 105, 124, 151	0
51	H5	58/60 (96%)	-0.49	0 100 100	103, 128, 155, 180	0
51	L8	58/60 (96%)	-0.47	0 100 100	83, 104, 140, 152	0
52	M8	47/71 (66%)	-0.17	0 100 100	131, 172, 183, 188	0
53	J5	56/60 (93%)	-0.31	0 100 100	82, 108, 155, 165	0
53	N8	48/60 (80%)	-0.30	0 100 100	72, 108, 153, 164	0
54	L5	45/49 (91%)	-0.24	2 (4%) 39 22	75, 83, 95, 107	0
54	P8	47/49 (95%)	-0.50	1 (2%) 63 42	68, 74, 98, 108	0
55	M5	64/65 (98%)	-0.07	1 (1%) 70 50	90, 105, 123, 143	0
55	Q8	64/65 (98%)	-0.27	1 (1%) 70 50	80, 91, 108, 123	0
56	1L	71/76 (93%)	0.09	3 (4%) 40 23	140, 257, 274, 277	0
57	3L	75/76 (98%)	1.11	13 (17%) 4 2	107, 259, 277, 285	0
All	All	20395/21728 (93%)	-0.41	495 (2%) 59 39	65, 127, 204, 287	0

All (495) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
57	3L	34	U	15.7
57	3L	35	U	11.8
9	8E	126	SER	7.8
48	E5	7	LEU	7.3
9	8E	127	LYS	7.2
12	3A	64	TYR	7.1
23	2L	40	C	7.0

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Mol	Chain	Res	Type	RSRZ
57	3L	33	U	7.0
41	B8	1	MET	6.8
32	49	23	PHE	6.7
13	4A	117	VAL	6.7
29	19	5	LYS	6.2
29	19	274	ARG	6.0
46	C5	29	GLU	5.9
1	13	701	C	5.7
29	19	55	GLY	5.6
13	4A	111	LYS	5.6
41	B8	104	ASN	5.5
34	69	20	ASP	5.4
57	3L	36	U	5.3
23	2L	39	A	5.3
12	3I	19	ARG	5.3
13	4A	118	ALA	5.2
1	13	688	G	5.2
31	39	72	ARG	5.2
22	1K	73	A	5.1
1	13	698	G	5.1
42	C8	116	ALA	5.0
1	13	700	G	5.0
20	BA	9	ASN	4.9
33	59	169	VAL	4.7
1	13	702	A	4.7
32	49	34	LEU	4.6
26	14	766	C	4.5
5	4E	23	GLY	4.5
1	13	687	A	4.5
29	11	274	ARG	4.5
38	45	90	VAL	4.4
23	2L	29	C	4.4
1	1G	791	G	4.4
1	13	699	C	4.4
44	A5	110	LYS	4.4
46	G8	105	ALA	4.3
26	14	767	U	4.2
22	1K	75	C	4.2
29	11	270	ILE	4.1
48	E5	8	GLY	4.1
3	2E	201	TYR	4.1
13	4A	113	PRO	4.1

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Mol	Chain	Res	Type	RSRZ
35	58	138	LEU	4.1
12	3A	21	LYS	4.0
1	13	685	G	4.0
1	1G	790	A	4.0
8	7E	93	VAL	4.0
1	13	686	U	4.0
32	41	23	PHE	4.0
12	3I	28	LYS	4.0
22	1K	74	C	4.0
1	1G	1341	U	4.0
26	14	765	G	4.0
44	A5	85	VAL	3.9
41	75	104	ASN	3.9
1	13	1394	A	3.9
22	1K	76	A	3.9
56	1L	40	C	3.9
33	51	86	GLU	3.9
1	13	703	G	3.9
23	2L	41	C	3.9
57	3L	70	C	3.9
1	1G	1377	A	3.9
26	1H	2712(A)	A	3.9
33	51	164	TYR	3.8
57	3L	37	A	3.8
13	4I	118	ALA	3.8
33	51	87	LEU	3.8
1	1G	1227	A	3.8
26	14	229	A	3.8
1	1G	789	U	3.8
13	4A	116	THR	3.8
1	1G	966	G	3.8
26	1H	1106	G	3.8
54	L5	45	ALA	3.8
22	1K	72	C	3.7
41	B8	135	ALA	3.7
44	A5	93	ALA	3.7
29	11	166	GLN	3.7
57	3L	32	C	3.7
12	3A	62	SER	3.7
7	6E	153	HIS	3.7
1	1G	1497	G	3.7
35	15	87	LEU	3.7

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Mol	Chain	Res	Type	RSRZ
7	62	8	GLU	3.7
1	13	681	C	3.7
1	1G	1340	A	3.6
25	4K	13	A	3.6
44	E8	85	VAL	3.6
43	95	73	SER	3.6
11	2I	48	ILE	3.6
44	A5	82	LEU	3.6
9	8E	128	ARG	3.6
4	32	29	PRO	3.6
1	13	800	G	3.5
26	14	1555	G	3.5
1	13	1403	C	3.5
7	6E	78	ARG	3.5
44	E8	92	ARG	3.5
34	69	3	VAL	3.5
57	3L	7	U	3.5
29	11	262	ARG	3.5
14	5A	44	LEU	3.5
29	11	112	GLN	3.4
23	2L	1	C	3.4
13	4A	107	ALA	3.4
22	1K	71	C	3.4
1	1G	693	G	3.4
30	29	71	GLY	3.4
37	35	75	ILE	3.4
13	4I	120	LYS	3.3
37	35	58	THR	3.3
35	58	74	ARG	3.3
35	58	84	LYS	3.3
1	13	679	C	3.3
34	69	12	LEU	3.3
34	69	18	VAL	3.3
26	14	896	A	3.3
4	3E	138	TYR	3.2
7	62	87	VAL	3.2
29	11	138	VAL	3.2
13	4I	119	GLY	3.2
48	I8	9	SER	3.2
29	11	169	GLU	3.2
12	3I	64	TYR	3.2
33	51	21	PRO	3.2

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Mol	Chain	Res	Type	RSRZ
1	13	680	C	3.2
42	C8	18	LEU	3.2
35	58	75	TYR	3.2
11	2I	91	ARG	3.2
29	19	54	ARG	3.2
26	14	530	G	3.2
26	14	879	G	3.2
1	1G	1496	C	3.2
26	14	1963	U	3.1
49	F5	85	LEU	3.1
26	14	691	C	3.1
26	14	1566	A	3.1
26	14	654(R)	C	3.0
26	14	1625	C	3.0
26	1H	2003	G	3.0
1	1G	792	A	3.0
26	14	764	A	3.0
34	69	2	LYS	3.0
29	11	38	LYS	3.0
35	15	92	ALA	3.0
11	2A	36	ASP	3.0
49	J8	91	LYS	3.0
1	13	791	G	3.0
22	1K	1	G	3.0
8	7E	91	ARG	2.9
26	14	654(D)	G	2.9
26	14	878	A	2.9
49	F5	84	GLY	2.9
7	6E	86	GLN	2.9
26	14	2901	C	2.9
43	D8	70	ILE	2.9
1	13	1381	U	2.9
12	3A	27	LEU	2.9
34	61	140	LEU	2.9
7	6E	85	TYR	2.9
33	59	79	VAL	2.9
1	13	799	G	2.9
26	1H	2002	G	2.9
26	1H	1847	A	2.9
41	B8	6	LEU	2.9
3	22	162	GLN	2.9
57	3L	38	A	2.9

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Mol	Chain	Res	Type	RSRZ
1	13	796	C	2.9
22	1K	40	C	2.9
29	11	271	ILE	2.9
35	58	68	GLU	2.9
1	1G	1494	G	2.9
25	4K	25	A	2.9
32	49	25	TYR	2.9
38	45	93	TYR	2.9
26	1H	882	G	2.9
1	13	697	U	2.8
26	1H	895	U	2.8
26	1H	1273	U	2.8
48	E5	9	SER	2.8
25	4L	15	A	2.8
12	3A	68	ALA	2.8
26	14	2833	G	2.8
35	58	22	THR	2.8
5	4E	24	ARG	2.8
2	12	102	LEU	2.8
41	75	50	ILE	2.8
54	L5	1	MET	2.8
32	41	26	GLN	2.8
42	85	48	ALA	2.8
29	19	6	PHE	2.8
41	75	105	LEU	2.8
42	85	40	PHE	2.8
29	11	167	GLY	2.8
43	95	70	ILE	2.8
1	13	1384	C	2.8
7	6E	154	TYR	2.8
44	A5	92	ARG	2.8
47	H8	142	SER	2.8
34	69	1	MET	2.8
23	2L	28	U	2.8
1	1G	1228	C	2.8
3	2E	200	ALA	2.8
7	6E	80	VAL	2.8
46	C5	106	LEU	2.8
38	45	78	PRO	2.7
35	58	85	ILE	2.7
35	58	73	THR	2.7
26	14	1816	G	2.7

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Mol	Chain	Res	Type	RSRZ
29	11	184	LYS	2.7
32	41	25	TYR	2.7
7	62	7	ALA	2.7
37	78	135	LEU	2.7
37	35	48	PRO	2.7
45	B5	70	LEU	2.7
29	19	216	GLY	2.7
41	75	106	SER	2.7
31	39	65	TRP	2.7
26	1H	1657	C	2.7
3	22	43	LEU	2.7
29	11	175	LEU	2.7
1	1G	1405	G	2.7
33	59	12	PRO	2.7
29	11	105	ILE	2.7
46	C5	63	LYS	2.7
26	14	1553	A	2.7
13	4I	96	LEU	2.7
1	1G	1226	C	2.7
29	11	170	GLY	2.7
46	C5	22	GLY	2.7
55	M5	34	TRP	2.7
29	11	182	LEU	2.7
29	19	215	LEU	2.7
1	13	792	A	2.6
31	39	56	GLU	2.6
13	4A	114	ARG	2.6
26	1H	1653	G	2.6
22	1K	44	U	2.6
26	14	2797	U	2.6
1	1G	787	A	2.6
1	1G	1400	C	2.6
26	1H	893	C	2.6
7	6E	148	ASN	2.6
1	1G	1381	U	2.6
11	2A	89	ALA	2.6
37	35	71	VAL	2.6
26	14	2902	C	2.6
9	82	115	GLY	2.6
7	6E	152	ALA	2.6
26	1H	1659	U	2.6
55	Q8	52	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	13	711	G	2.6
26	1H	1846	G	2.6
31	39	83	PHE	2.6
1	1G	1519	A	2.6
26	1H	1848	A	2.6
12	3I	29	GLY	2.6
1	13	241	C	2.6
5	4E	13	ILE	2.5
4	32	189	PRO	2.5
29	11	37	LEU	2.5
38	45	2	LEU	2.5
29	11	168	ARG	2.5
37	78	36	LYS	2.5
57	3L	68	G	2.5
33	59	148	ILE	2.5
7	62	89	MET	2.5
1	1G	1383	C	2.5
41	75	101	PHE	2.5
33	59	168	PRO	2.5
29	19	212	SER	2.5
12	3A	28	LYS	2.5
29	19	211	ARG	2.5
1	13	76	G	2.5
25	4K	6	G	2.5
26	14	1906	G	2.5
4	32	188	LEU	2.5
26	14	1556	C	2.5
31	39	69	HIS	2.5
37	35	35	HIS	2.5
29	11	41	GLY	2.5
33	51	22	GLY	2.5
1	1G	941	G	2.5
1	1G	954	G	2.5
1	1G	1407	C	2.5
10	1A	58	ASP	2.5
1	13	93	U	2.5
37	35	30	THR	2.5
7	62	88	PRO	2.5
11	2I	25	TYR	2.5
32	49	108	ASN	2.4
22	1K	49	G	2.4
32	41	3	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
35	15	73	THR	2.4
1	13	678	U	2.4
1	13	1196	U	2.4
11	2A	25	TYR	2.4
26	14	1917	U	2.4
12	3A	55	VAL	2.4
31	39	82	ILE	2.4
1	13	1500	A	2.4
1	13	239	U	2.4
1	1G	1338	G	2.4
3	2E	128	PHE	2.4
5	4E	18	ARG	2.4
30	29	73	GLU	2.4
37	35	74	GLU	2.4
38	45	79	LEU	2.4
29	11	200	ASP	2.4
29	19	56	GLY	2.4
26	14	1913	A	2.4
41	B8	132	LYS	2.4
23	2L	35	C	2.4
32	49	82	LEU	2.4
1	13	1508	G	2.4
25	4L	7	G	2.4
26	14	654(S)	G	2.4
26	14	2023	G	2.4
12	3A	61	THR	2.4
38	45	70	PRO	2.4
29	19	111	LEU	2.4
1	13	815	A	2.4
26	1H	2001	A	2.4
26	1H	2688	U	2.4
35	15	98	VAL	2.4
1	13	1195	C	2.3
26	1H	2690	C	2.3
38	45	88	GLY	2.3
31	31	64	ILE	2.3
19	AA	66	MET	2.3
35	15	90	MET	2.3
1	1G	1379	G	2.3
4	32	94	LEU	2.3
29	19	181	GLU	2.3
35	58	88	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
29	11	258	LYS	2.3
7	6E	151	TYR	2.3
1	1G	1382	C	2.3
4	3E	110	PHE	2.3
1	1G	1343	G	2.3
26	1H	145	G	2.3
26	1H	1651	G	2.3
32	49	109	VAL	2.3
34	69	21	VAL	2.3
31	39	79	GLY	2.3
29	19	27	THR	2.3
17	8I	29	HIS	2.3
46	C5	43	ASN	2.3
26	14	1932	A	2.3
38	45	69	PHE	2.3
44	E8	94	ASP	2.3
1	13	1400	C	2.3
1	1G	1384	C	2.3
7	62	141	VAL	2.3
29	11	174	ILE	2.3
13	4A	103	THR	2.3
36	68	117	LEU	2.3
43	95	91	TYR	2.3
11	2A	122	LYS	2.3
3	2E	166	GLU	2.3
26	14	688	U	2.3
7	6E	147	ALA	2.3
49	F5	21	ARG	2.3
37	35	119	GLU	2.2
38	45	91	GLU	2.2
19	AA	62	ILE	2.2
34	61	138	ILE	2.2
12	3A	26	ALA	2.2
37	78	130	PHE	2.2
22	1K	32	C	2.2
26	14	698	C	2.2
26	14	737	C	2.2
57	3L	75	C	2.2
46	G8	98	VAL	2.2
16	7A	54	GLU	2.2
26	14	975	G	2.2
30	21	132	HIS	2.2

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Mol	Chain	Res	Type	RSRZ
1	1G	1406	U	2.2
1	13	965	A	2.2
1	1G	1339	A	2.2
1	1G	1518	A	2.2
56	1L	38	A	2.2
7	62	9	VAL	2.2
11	2I	47	VAL	2.2
12	3A	24	VAL	2.2
47	D5	138	GLU	2.2
26	1H	1218	C	2.2
7	62	2	ALA	2.2
12	3I	26	ALA	2.2
31	39	80	ALA	2.2
42	C8	15	LYS	2.2
43	95	81	TYR	2.2
9	8E	81	ILE	2.2
1	13	968	A	2.2
35	15	91	LEU	2.2
45	B5	61	GLY	2.2
37	35	50	ARG	2.2
29	19	3	VAL	2.2
46	C5	42	VAL	2.2
33	59	162	ILE	2.2
34	69	17	GLN	2.2
30	21	63	LEU	2.2
35	15	129	PRO	2.2
38	45	8	LYS	2.2
26	1H	1130	U	2.2
54	P8	47	ARG	2.2
23	2L	38	A	2.2
25	4K	23	A	2.2
26	1H	146	G	2.2
26	14	880	G	2.2
26	14	1929	G	2.2
3	2E	153	VAL	2.1
38	45	102	VAL	2.1
33	59	151	ILE	2.1
44	E8	96	ILE	2.1
10	1I	58	ASP	2.1
37	35	47	ASP	2.1
37	78	19	VAL	2.1
1	13	1398	A	2.1

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Mol	Chain	Res	Type	RSRZ
26	14	735	A	2.1
26	14	1439	A	2.1
42	C8	39	LEU	2.1
1	1G	1517	G	2.1
10	1I	60	ARG	2.1
13	4A	93	ARG	2.1
25	4L	6	G	2.1
8	7E	131	GLY	2.1
32	49	177	GLY	2.1
26	14	754	C	2.1
32	49	160	VAL	2.1
46	C5	39	VAL	2.1
32	49	161	THR	2.1
44	E8	82	LEU	2.1
43	95	83	ARG	2.1
36	68	84	ALA	2.1
42	C8	35	ALA	2.1
1	13	712	A	2.1
1	13	790	A	2.1
26	14	1762	A	2.1
1	13	709	G	2.1
26	14	763	G	2.1
57	3L	6	G	2.1
56	1L	56	C	2.1
29	19	214	TRP	2.1
45	B5	63	LYS	2.1
13	4A	9	ILE	2.1
18	9I	76	LEU	2.1
1	13	1498	U	2.1
1	13	706	A	2.1
22	1K	31	A	2.1
26	14	734	A	2.1
44	E8	98	LYS	2.1
48	E5	71	ASP	2.1
3	2E	193	TYR	2.1
1	13	806	C	2.1
26	1H	2008	C	2.1
1	1G	953	G	2.1
5	4E	21	ALA	2.1
26	1H	1650	G	2.1
26	14	561	G	2.1
29	19	2	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
32	49	169	ALA	2.1
31	31	56	GLU	2.1
26	14	1926	U	2.0
33	51	172	LYS	2.0
11	2I	42	TRP	2.0
29	19	16	MET	2.0
38	45	7	MET	2.0
1	1G	938	A	2.0
30	21	171	GLU	2.0
1	13	708	C	2.0
1	1G	75	C	2.0
1	1G	1533	C	2.0
30	21	7	VAL	2.0
33	51	19	VAL	2.0
34	69	19	VAL	2.0
57	3L	74	C	2.0
1	13	966	G	2.0
37	35	77	ARG	2.0
4	32	91	SER	2.0
1	13	788	U	2.0
26	14	1438	U	2.0
7	6E	103	TRP	2.0
29	11	39	LYS	2.0
31	31	66	PRO	2.0
38	45	80	GLU	2.0
41	B8	114	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	PSU	1L	55	20/21	0.61	0.08	176,201,207,207	0
22	PSU	1K	55	20/21	0.79	0.08	143,175,183,183	0
56	5MU	1L	54	21/22	0.80	0.07	184,194,212,217	0
23	PSU	2L	56	20/21	0.81	0.08	143,152,158,162	0
22	5MU	1K	54	21/22	0.85	0.07	155,171,185,188	0
23	5MU	2K	55	21/22	0.87	0.05	122,135,144,159	0
23	4SU	2L	8	20/21	0.88	0.09	131,155,165,169	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	PSU	1L	39	20/21	0.88	0.17	155,179,185,187	0
23	PSU	2K	56	20/21	0.88	0.05	122,127,139,140	0
57	PSU	3L	39	20/21	0.88	0.24	160,164,169,170	0
23	G7M	2L	47	24/25	0.89	0.08	161,169,178,179	0
23	4SU	2K	8	20/21	0.90	0.09	111,120,124,128	0
23	5MU	2L	55	21/22	0.90	0.07	146,159,164,166	0
23	G7M	2K	47	24/25	0.93	0.06	124,132,139,146	0
23	OMC	2L	33	21/22	0.93	0.15	132,140,144,151	0
22	T6A	1K	37	32/33	0.94	0.26	100,113,152,156	0
22	U8U	1K	34	23/24	0.95	0.15	116,123,130,131	0
23	OMC	2K	33	21/22	0.96	0.10	95,105,111,117	0
22	PSU	1K	39	20/21	0.96	0.15	98,124,139,139	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1G	1602	1/1	-0.02	0.33	133,133,133,133	0
58	MG	1G	1627	1/1	0.14	0.38	142,142,142,142	0
58	MG	14	3062	1/1	0.18	0.28	129,129,129,129	0
58	MG	1H	3327	1/1	0.19	0.33	120,120,120,120	0
58	MG	32	301	1/1	0.20	0.33	128,128,128,128	0
58	MG	14	3310	1/1	0.22	0.34	124,124,124,124	0
58	MG	14	3051	1/1	0.23	0.26	158,158,158,158	0
58	MG	1H	3264	1/1	0.24	0.29	122,122,122,122	0
58	MG	1H	3318	1/1	0.25	0.35	116,116,116,116	0
58	MG	1H	3272	1/1	0.26	0.29	118,118,118,118	0
58	MG	1H	3337	1/1	0.26	0.31	140,140,140,140	0
58	MG	13	1705	1/1	0.28	0.29	150,150,150,150	0
58	MG	14	3168	1/1	0.29	0.27	122,122,122,122	0
58	MG	1H	3343	1/1	0.29	0.18	137,137,137,137	0
58	MG	1H	3317	1/1	0.32	0.37	106,106,106,106	0
58	MG	14	3324	1/1	0.32	0.27	104,104,104,104	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1G	1642	1/1	0.33	0.32	114,114,114,114	0
58	MG	1H	3035	1/1	0.35	0.28	123,123,123,123	0
58	MG	13	1704	1/1	0.36	0.21	134,134,134,134	0
58	MG	14	3301	1/1	0.37	0.18	115,115,115,115	0
58	MG	2K	103	1/1	0.37	0.19	134,134,134,134	0
58	MG	1G	1669	1/1	0.37	0.20	151,151,151,151	0
58	MG	14	3303	1/1	0.38	0.33	115,115,115,115	0
58	MG	14	3293	1/1	0.39	0.36	109,109,109,109	0
58	MG	1H	3323	1/1	0.40	0.29	122,122,122,122	0
58	MG	C5	201	1/1	0.40	0.28	137,137,137,137	0
58	MG	14	3284	1/1	0.41	0.40	112,112,112,112	0
58	MG	13	1650	1/1	0.42	0.24	134,134,134,134	0
58	MG	1H	3033	1/1	0.43	0.23	109,109,109,109	0
58	MG	29	303	1/1	0.44	0.15	106,106,106,106	0
58	MG	1H	3257	1/1	0.44	0.37	97,97,97,97	0
58	MG	13	1652	1/1	0.45	0.20	138,138,138,138	0
58	MG	1H	3261	1/1	0.46	0.28	115,115,115,115	0
58	MG	14	3335	1/1	0.46	0.29	124,124,124,124	0
58	MG	1H	3313	1/1	0.47	0.29	114,114,114,114	0
58	MG	1H	3291	1/1	0.48	0.36	116,116,116,116	0
58	MG	13	1644	1/1	0.48	0.21	120,120,120,120	0
58	MG	1H	3322	1/1	0.48	0.27	121,121,121,121	0
58	MG	1H	3247	1/1	0.49	0.24	101,101,101,101	0
58	MG	1H	3187	1/1	0.50	0.26	105,105,105,105	0
58	MG	14	3089	1/1	0.50	0.43	104,104,104,104	0
58	MG	1G	1666	1/1	0.51	0.33	121,121,121,121	0
58	MG	1G	1635	1/1	0.51	0.34	111,111,111,111	0
58	MG	1H	3288	1/1	0.52	0.26	99,99,99,99	0
58	MG	14	3057	1/1	0.52	0.25	119,119,119,119	0
58	MG	14	3195	1/1	0.52	0.30	107,107,107,107	0
58	MG	14	3022	1/1	0.52	0.31	101,101,101,101	0
58	MG	1H	3314	1/1	0.53	0.20	107,107,107,107	0
58	MG	1G	1667	1/1	0.53	0.23	111,111,111,111	0
58	MG	13	1709	1/1	0.53	0.26	112,112,112,112	0
58	MG	1H	3350	1/1	0.53	0.33	113,113,113,113	0
58	MG	1H	3351	1/1	0.53	0.20	122,122,122,122	0
58	MG	14	3028	1/1	0.54	0.33	124,124,124,124	0
58	MG	1H	3161	1/1	0.54	0.24	115,115,115,115	0
58	MG	1H	3331	1/1	0.55	0.21	120,120,120,120	0
58	MG	13	1678	1/1	0.55	0.22	121,121,121,121	0
58	MG	1H	3230	1/1	0.55	0.20	104,104,104,104	0
58	MG	1G	1640	1/1	0.55	0.33	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	14	3319	1/1	0.55	0.18	128,128,128,128	0
58	MG	13	1703	1/1	0.55	0.20	128,128,128,128	0
58	MG	14	3199	1/1	0.55	0.36	91,91,91,91	0
58	MG	13	1645	1/1	0.55	0.26	113,113,113,113	0
58	MG	14	3289	1/1	0.55	0.24	116,116,116,116	0
58	MG	1H	3330	1/1	0.56	0.23	105,105,105,105	0
58	MG	1H	3112	1/1	0.56	0.29	101,101,101,101	0
58	MG	14	3328	1/1	0.56	0.39	107,107,107,107	0
58	MG	1G	1643	1/1	0.56	0.36	102,102,102,102	0
58	MG	14	3058	1/1	0.56	0.23	107,107,107,107	0
58	MG	2K	102	1/1	0.56	0.29	109,109,109,109	0
58	MG	1H	3069	1/1	0.57	0.19	101,101,101,101	0
58	MG	1H	3070	1/1	0.57	0.28	100,100,100,100	0
58	MG	14	3255	1/1	0.57	0.29	105,105,105,105	0
58	MG	13	1675	1/1	0.57	0.21	149,149,149,149	0
58	MG	14	3286	1/1	0.57	0.34	117,117,117,117	0
58	MG	1H	3154	1/1	0.57	0.32	106,106,106,106	0
58	MG	1H	3256	1/1	0.57	0.29	104,104,104,104	0
58	MG	1G	1659	1/1	0.57	0.23	142,142,142,142	0
58	MG	14	3267	1/1	0.58	0.37	104,104,104,104	0
58	MG	1H	3286	1/1	0.58	0.34	109,109,109,109	0
58	MG	14	3018	1/1	0.58	0.25	111,111,111,111	0
58	MG	1H	3338	1/1	0.58	0.18	112,112,112,112	0
58	MG	1G	1611	1/1	0.58	0.29	129,129,129,129	0
58	MG	14	3068	1/1	0.58	0.37	108,108,108,108	0
58	MG	14	3260	1/1	0.58	0.42	115,115,115,115	0
58	MG	1H	3244	1/1	0.59	0.37	103,103,103,103	0
58	MG	14	3182	1/1	0.59	0.21	105,105,105,105	0
58	MG	1H	3309	1/1	0.59	0.22	126,126,126,126	0
58	MG	1H	3285	1/1	0.59	0.19	115,115,115,115	0
58	MG	14	3232	1/1	0.59	0.24	89,89,89,89	0
58	MG	14	3234	1/1	0.59	0.21	85,85,85,85	0
58	MG	2L	103	1/1	0.59	0.31	128,128,128,128	0
58	MG	14	3005	1/1	0.59	0.25	101,101,101,101	0
58	MG	1H	3016	1/1	0.59	0.26	105,105,105,105	0
58	MG	1H	3269	1/1	0.59	0.32	99,99,99,99	0
58	MG	14	3150	1/1	0.59	0.37	102,102,102,102	0
58	MG	1G	1616	1/1	0.60	0.26	118,118,118,118	0
58	MG	14	3223	1/1	0.60	0.16	116,116,116,116	0
58	MG	14	3033	1/1	0.60	0.30	95,95,95,95	0
58	MG	1H	3289	1/1	0.60	0.45	86,86,86,86	0
58	MG	14	3152	1/1	0.60	0.31	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3282	1/1	0.60	0.24	106,106,106,106	0
58	MG	1H	3340	1/1	0.60	0.38	101,101,101,101	0
58	MG	14	3185	1/1	0.60	0.27	113,113,113,113	0
58	MG	14	3193	1/1	0.60	0.28	79,79,79,79	0
58	MG	1H	3212	1/1	0.60	0.27	93,93,93,93	0
58	MG	14	3316	1/1	0.61	0.25	111,111,111,111	0
58	MG	14	3026	1/1	0.61	0.20	115,115,115,115	0
58	MG	14	3322	1/1	0.61	0.30	117,117,117,117	0
58	MG	1H	3301	1/1	0.61	0.38	99,99,99,99	0
58	MG	14	3295	1/1	0.61	0.37	96,96,96,96	0
58	MG	1H	3328	1/1	0.61	0.28	119,119,119,119	0
58	MG	14	3339	1/1	0.61	0.31	120,120,120,120	0
58	MG	1G	1628	1/1	0.61	0.31	120,120,120,120	0
58	MG	1H	3105	1/1	0.61	0.34	86,86,86,86	0
58	MG	1H	3297	1/1	0.62	0.22	133,133,133,133	0
58	MG	1H	3320	1/1	0.62	0.28	107,107,107,107	0
58	MG	14	3233	1/1	0.62	0.29	108,108,108,108	0
58	MG	1H	3054	1/1	0.62	0.19	110,110,110,110	0
58	MG	14	3163	1/1	0.62	0.30	104,104,104,104	0
58	MG	1H	3198	1/1	0.62	0.28	119,119,119,119	0
58	MG	14	3258	1/1	0.63	0.24	93,93,93,93	0
58	MG	1H	3300	1/1	0.63	0.29	99,99,99,99	0
58	MG	13	1710	1/1	0.63	0.23	118,118,118,118	0
58	MG	13	1681	1/1	0.63	0.20	124,124,124,124	0
58	MG	13	1684	1/1	0.63	0.21	141,141,141,141	0
58	MG	1H	3146	1/1	0.63	0.27	103,103,103,103	0
58	MG	14	3170	1/1	0.63	0.22	119,119,119,119	0
58	MG	13	1637	1/1	0.63	0.23	123,123,123,123	0
58	MG	14	3245	1/1	0.63	0.22	97,97,97,97	0
58	MG	1H	3346	1/1	0.63	0.29	113,113,113,113	0
58	MG	14	3337	1/1	0.64	0.37	125,125,125,125	0
58	MG	14	3272	1/1	0.64	0.30	96,96,96,96	0
58	MG	14	3321	1/1	0.64	0.25	109,109,109,109	0
58	MG	13	1653	1/1	0.64	0.20	144,144,144,144	0
58	MG	1H	3319	1/1	0.65	0.29	102,102,102,102	0
58	MG	13	1694	1/1	0.65	0.25	114,114,114,114	0
58	MG	1H	3120	1/1	0.65	0.26	107,107,107,107	0
58	MG	1H	3290	1/1	0.65	0.32	103,103,103,103	0
58	MG	1G	1644	1/1	0.65	0.30	110,110,110,110	0
58	MG	1H	3220	1/1	0.65	0.21	115,115,115,115	0
58	MG	1G	1665	1/1	0.65	0.25	122,122,122,122	0
58	MG	1H	3060	1/1	0.66	0.29	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3023	1/1	0.66	0.27	92,92,92,92	0
58	MG	14	3269	1/1	0.66	0.14	115,115,115,115	0
58	MG	14	3325	1/1	0.66	0.23	110,110,110,110	0
58	MG	14	3240	1/1	0.66	0.19	111,111,111,111	0
58	MG	14	3304	1/1	0.66	0.28	87,87,87,87	0
58	MG	14	3200	1/1	0.66	0.25	94,94,94,94	0
58	MG	14	3315	1/1	0.66	0.23	114,114,114,114	0
58	MG	13	1692	1/1	0.66	0.37	99,99,99,99	0
58	MG	1H	3176	1/1	0.66	0.30	110,110,110,110	0
58	MG	14	3192	1/1	0.67	0.27	104,104,104,104	0
58	MG	13	1625	1/1	0.67	0.36	102,102,102,102	0
58	MG	13	1670	1/1	0.67	0.19	119,119,119,119	0
58	MG	7A	101	1/1	0.67	0.27	104,104,104,104	0
58	MG	1H	3011	1/1	0.67	0.36	71,71,71,71	0
58	MG	1H	3268	1/1	0.67	0.30	104,104,104,104	0
58	MG	1H	3315	1/1	0.67	0.19	99,99,99,99	0
58	MG	1G	1645	1/1	0.67	0.31	122,122,122,122	0
58	MG	14	3024	1/1	0.67	0.37	106,106,106,106	0
58	MG	13	1702	1/1	0.67	0.30	114,114,114,114	0
58	MG	13	1690	1/1	0.67	0.35	113,113,113,113	0
58	MG	1H	3281	1/1	0.67	0.34	108,108,108,108	0
58	MG	1H	3206	1/1	0.67	0.28	100,100,100,100	0
58	MG	14	3165	1/1	0.68	0.29	102,102,102,102	0
58	MG	14	3331	1/1	0.68	0.32	108,108,108,108	0
58	MG	14	3101	1/1	0.68	0.21	108,108,108,108	0
58	MG	1H	3165	1/1	0.68	0.19	99,99,99,99	0
58	MG	14	3338	1/1	0.68	0.13	114,114,114,114	0
58	MG	14	3309	1/1	0.68	0.20	109,109,109,109	0
58	MG	14	3179	1/1	0.68	0.26	102,102,102,102	0
58	MG	14	3297	1/1	0.68	0.29	91,91,91,91	0
58	MG	1H	3062	1/1	0.69	0.19	103,103,103,103	0
58	MG	1H	3255	1/1	0.69	0.38	94,94,94,94	0
58	MG	14	3263	1/1	0.69	0.28	102,102,102,102	0
58	MG	14	3265	1/1	0.69	0.16	110,110,110,110	0
58	MG	14	3056	1/1	0.69	0.22	109,109,109,109	0
58	MG	1H	3262	1/1	0.69	0.25	100,100,100,100	0
58	MG	14	3271	1/1	0.69	0.20	101,101,101,101	0
58	MG	13	1606	1/1	0.69	0.20	119,119,119,119	0
58	MG	14	3059	1/1	0.69	0.24	92,92,92,92	0
58	MG	14	3215	1/1	0.69	0.31	89,89,89,89	0
58	MG	14	3318	1/1	0.69	0.24	102,102,102,102	0
58	MG	14	3257	1/1	0.69	0.17	143,143,143,143	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3182	1/1	0.70	0.20	91,91,91,91	0
58	MG	1G	1630	1/1	0.70	0.23	120,120,120,120	0
58	MG	1H	3202	1/1	0.70	0.27	95,95,95,95	0
58	MG	1G	1652	1/1	0.70	0.27	110,110,110,110	0
58	MG	14	3129	1/1	0.70	0.25	84,84,84,84	0
58	MG	14	3290	1/1	0.70	0.19	113,113,113,113	0
58	MG	14	3143	1/1	0.70	0.26	110,110,110,110	0
58	MG	1H	3141	1/1	0.70	0.41	83,83,83,83	0
58	MG	1H	3341	1/1	0.70	0.16	110,110,110,110	0
58	MG	14	3153	1/1	0.70	0.24	102,102,102,102	0
58	MG	E5	101	1/1	0.70	0.39	100,100,100,100	0
58	MG	14	3262	1/1	0.71	0.26	109,109,109,109	0
58	MG	1H	3194	1/1	0.71	0.19	91,91,91,91	0
58	MG	14	3052	1/1	0.71	0.16	83,83,83,83	0
58	MG	1H	3347	1/1	0.71	0.12	102,102,102,102	0
58	MG	1H	3149	1/1	0.71	0.29	102,102,102,102	0
58	MG	14	3227	1/1	0.71	0.32	104,104,104,104	0
58	MG	13	1626	1/1	0.71	0.25	113,113,113,113	0
58	MG	14	3281	1/1	0.71	0.34	103,103,103,103	0
58	MG	16	208	1/1	0.71	0.13	111,111,111,111	0
58	MG	13	1698	1/1	0.71	0.21	96,96,96,96	0
58	MG	14	3239	1/1	0.71	0.30	90,90,90,90	0
58	MG	1H	3119	1/1	0.71	0.31	81,81,81,81	0
58	MG	14	3333	1/1	0.71	0.28	102,102,102,102	0
58	MG	13	1679	1/1	0.71	0.24	122,122,122,122	0
58	MG	13	1663	1/1	0.71	0.29	86,86,86,86	0
58	MG	14	3256	1/1	0.71	0.25	110,110,110,110	0
58	MG	14	3299	1/1	0.71	0.26	118,118,118,118	0
58	MG	14	3112	1/1	0.71	0.14	108,108,108,108	0
58	MG	1H	3342	1/1	0.71	0.24	105,105,105,105	0
58	MG	1H	3090	1/1	0.71	0.23	76,76,76,76	0
58	MG	14	3283	1/1	0.72	0.32	98,98,98,98	0
58	MG	14	3247	1/1	0.72	0.42	104,104,104,104	0
58	MG	1H	3082	1/1	0.72	0.22	79,79,79,79	0
58	MG	13	1740	1/1	0.72	0.22	107,107,107,107	0
58	MG	13	1680	1/1	0.72	0.25	125,125,125,125	0
58	MG	14	3202	1/1	0.72	0.21	79,79,79,79	0
58	MG	14	3294	1/1	0.72	0.45	100,100,100,100	0
58	MG	1H	3310	1/1	0.72	0.30	95,95,95,95	0
58	MG	1H	3208	1/1	0.72	0.37	99,99,99,99	0
58	MG	13	1708	1/1	0.72	0.32	102,102,102,102	0
58	MG	14	3300	1/1	0.72	0.15	118,118,118,118	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3031	1/1	0.72	0.36	115,115,115,115	0
58	MG	1H	3008	1/1	0.72	0.28	99,99,99,99	0
58	MG	1G	1612	1/1	0.72	0.28	105,105,105,105	0
58	MG	1H	3034	1/1	0.72	0.21	145,145,145,145	0
58	MG	35	201	1/1	0.72	0.37	90,90,90,90	0
58	MG	1H	3296	1/1	0.72	0.33	86,86,86,86	0
58	MG	1H	3081	1/1	0.72	0.15	88,88,88,88	0
58	MG	13	1612	1/1	0.73	0.29	108,108,108,108	0
58	MG	1G	1604	1/1	0.73	0.21	119,119,119,119	0
58	MG	1H	3132	1/1	0.73	0.25	87,87,87,87	0
58	MG	14	3320	1/1	0.73	0.17	119,119,119,119	0
58	MG	1G	1647	1/1	0.73	0.25	101,101,101,101	0
58	MG	1H	3274	1/1	0.73	0.28	105,105,105,105	0
58	MG	1H	3235	1/1	0.73	0.43	112,112,112,112	0
58	MG	1H	3152	1/1	0.73	0.30	108,108,108,108	0
58	MG	14	3113	1/1	0.73	0.23	102,102,102,102	0
58	MG	14	3030	1/1	0.73	0.14	104,104,104,104	0
58	MG	14	3132	1/1	0.73	0.33	86,86,86,86	0
58	MG	14	3135	1/1	0.73	0.23	115,115,115,115	0
58	MG	1H	3263	1/1	0.73	0.34	92,92,92,92	0
58	MG	14	3045	1/1	0.73	0.23	89,89,89,89	0
58	MG	13	1647	1/1	0.73	0.23	108,108,108,108	0
58	MG	1J	201	1/1	0.73	0.29	100,100,100,100	0
58	MG	1H	3143	1/1	0.73	0.27	101,101,101,101	0
58	MG	1H	3339	1/1	0.73	0.35	104,104,104,104	0
58	MG	45	202	1/1	0.73	0.17	122,122,122,122	0
58	MG	14	3311	1/1	0.73	0.26	105,105,105,105	0
58	MG	78	201	1/1	0.73	0.27	92,92,92,92	0
58	MG	13	1621	1/1	0.74	0.26	99,99,99,99	0
58	MG	14	3241	1/1	0.74	0.20	115,115,115,115	0
58	MG	1G	1634	1/1	0.74	0.22	127,127,127,127	0
58	MG	1H	3086	1/1	0.74	0.33	89,89,89,89	0
58	MG	1H	3316	1/1	0.74	0.18	91,91,91,91	0
58	MG	1H	3210	1/1	0.74	0.25	101,101,101,101	0
58	MG	1H	3077	1/1	0.74	0.24	65,65,65,65	0
58	MG	14	3218	1/1	0.74	0.23	97,97,97,97	0
58	MG	13	1700	1/1	0.74	0.21	123,123,123,123	0
58	MG	1H	3348	1/1	0.74	0.26	111,111,111,111	0
58	MG	14	3117	1/1	0.74	0.26	91,91,91,91	0
58	MG	14	3001	1/1	0.74	0.36	97,97,97,97	0
58	MG	1H	3169	1/1	0.74	0.18	95,95,95,95	0
58	MG	1H	3173	1/1	0.74	0.23	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	16	205	1/1	0.75	0.17	106,106,106,106	0
58	MG	1H	3324	1/1	0.75	0.18	97,97,97,97	0
58	MG	14	3231	1/1	0.75	0.21	107,107,107,107	0
58	MG	13	1673	1/1	0.75	0.34	106,106,106,106	0
58	MG	1G	1636	1/1	0.75	0.29	111,111,111,111	0
58	MG	1H	3229	1/1	0.75	0.30	89,89,89,89	0
58	MG	14	3235	1/1	0.75	0.18	102,102,102,102	0
58	MG	1G	1603	1/1	0.75	0.26	132,132,132,132	0
58	MG	13	1648	1/1	0.75	0.42	108,108,108,108	0
58	MG	14	3134	1/1	0.75	0.31	100,100,100,100	0
58	MG	13	1660	1/1	0.75	0.21	104,104,104,104	0
58	MG	1H	3333	1/1	0.75	0.24	93,93,93,93	0
58	MG	1H	3240	1/1	0.75	0.32	96,96,96,96	0
58	MG	13	1605	1/1	0.75	0.21	134,134,134,134	0
58	MG	14	3023	1/1	0.75	0.31	103,103,103,103	0
58	MG	13	1603	1/1	0.75	0.29	102,102,102,102	0
58	MG	1G	1664	1/1	0.76	0.21	122,122,122,122	0
58	MG	13	1662	1/1	0.76	0.15	116,116,116,116	0
58	MG	1H	3155	1/1	0.76	0.14	86,86,86,86	0
58	MG	14	3054	1/1	0.76	0.12	99,99,99,99	0
58	MG	1G	1605	1/1	0.76	0.20	125,125,125,125	0
58	MG	1H	3128	1/1	0.76	0.22	90,90,90,90	0
58	MG	14	3274	1/1	0.76	0.18	97,97,97,97	0
58	MG	14	3313	1/1	0.76	0.22	107,107,107,107	0
58	MG	14	3032	1/1	0.76	0.20	109,109,109,109	0
58	MG	1H	3205	1/1	0.76	0.39	114,114,114,114	0
58	MG	14	3317	1/1	0.77	0.18	122,122,122,122	0
58	MG	1H	3312	1/1	0.77	0.28	103,103,103,103	0
58	MG	1H	3030	1/1	0.77	0.34	85,85,85,85	0
58	MG	1G	1606	1/1	0.77	0.26	93,93,93,93	0
58	MG	1H	3036	1/1	0.77	0.14	118,118,118,118	0
58	MG	14	3146	1/1	0.77	0.24	77,77,77,77	0
58	MG	1H	3071	1/1	0.77	0.21	94,94,94,94	0
58	MG	1G	1614	1/1	0.77	0.17	127,127,127,127	0
58	MG	14	3261	1/1	0.77	0.17	101,101,101,101	0
58	MG	13	1634	1/1	0.77	0.27	104,104,104,104	0
58	MG	1G	1621	1/1	0.77	0.27	110,110,110,110	0
58	MG	1H	3116	1/1	0.77	0.32	88,88,88,88	0
58	MG	14	3302	1/1	0.77	0.37	95,95,95,95	0
58	MG	1G	1663	1/1	0.77	0.16	133,133,133,133	0
58	MG	16	209	1/1	0.77	0.14	106,106,106,106	0
58	MG	14	3174	1/1	0.77	0.26	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	13	1707	1/1	0.77	0.33	114,114,114,114	0
58	MG	1G	1632	1/1	0.77	0.22	130,130,130,130	0
58	MG	14	3275	1/1	0.77	0.23	90,90,90,90	0
58	MG	13	1688	1/1	0.77	0.23	96,96,96,96	0
58	MG	1H	3332	1/1	0.77	0.34	93,93,93,93	0
58	MG	13	1685	1/1	0.78	0.26	107,107,107,107	0
58	MG	1H	3349	1/1	0.78	0.14	119,119,119,119	0
58	MG	13	1627	1/1	0.78	0.33	105,105,105,105	0
58	MG	1H	3295	1/1	0.78	0.22	110,110,110,110	0
58	MG	1H	3355	1/1	0.78	0.35	88,88,88,88	0
58	MG	1H	3005	1/1	0.78	0.25	79,79,79,79	0
58	MG	14	3031	1/1	0.78	0.21	89,89,89,89	0
58	MG	16	207	1/1	0.78	0.17	92,92,92,92	0
58	MG	13	1695	1/1	0.78	0.17	122,122,122,122	0
58	MG	14	3326	1/1	0.78	0.31	104,104,104,104	0
58	MG	1H	3175	1/1	0.78	0.17	92,92,92,92	0
58	MG	1H	3209	1/1	0.78	0.31	99,99,99,99	0
58	MG	J8	101	1/1	0.78	0.23	89,89,89,89	0
58	MG	14	3053	1/1	0.78	0.29	82,82,82,82	0
58	MG	14	3216	1/1	0.78	0.21	101,101,101,101	0
58	MG	14	3217	1/1	0.78	0.30	89,89,89,89	0
58	MG	14	3264	1/1	0.78	0.23	106,106,106,106	0
58	MG	1H	3150	1/1	0.78	0.30	63,63,63,63	0
58	MG	1J	204	1/1	0.78	0.13	119,119,119,119	0
58	MG	13	1646	1/1	0.78	0.18	129,129,129,129	0
58	MG	13	1699	1/1	0.78	0.29	97,97,97,97	0
58	MG	14	3156	1/1	0.78	0.32	88,88,88,88	0
58	MG	1H	3226	1/1	0.78	0.23	88,88,88,88	0
58	MG	1H	3102	1/1	0.78	0.31	73,73,73,73	0
58	MG	14	3298	1/1	0.79	0.29	104,104,104,104	0
58	MG	1H	3242	1/1	0.79	0.17	90,90,90,90	0
58	MG	14	3110	1/1	0.79	0.25	94,94,94,94	0
58	MG	1H	3049	1/1	0.79	0.23	82,82,82,82	0
58	MG	1G	1620	1/1	0.79	0.28	91,91,91,91	0
58	MG	1H	3167	1/1	0.79	0.34	96,96,96,96	0
58	MG	14	3277	1/1	0.79	0.23	111,111,111,111	0
58	MG	1H	3178	1/1	0.79	0.26	93,93,93,93	0
58	MG	1H	3486	1/1	0.79	0.28	106,106,106,106	0
58	MG	1H	3129	1/1	0.79	0.36	85,85,85,85	0
58	MG	2L	101	1/1	0.79	0.23	97,97,97,97	0
58	MG	14	3136	1/1	0.79	0.27	93,93,93,93	0
58	MG	1J	202	1/1	0.79	0.28	110,110,110,110	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3336	1/1	0.79	0.17	93,93,93,93	0
58	MG	14	3292	1/1	0.79	0.32	83,83,83,83	0
58	MG	14	3188	1/1	0.79	0.42	93,93,93,93	0
58	MG	1H	3237	1/1	0.79	0.16	88,88,88,88	0
58	MG	13	1676	1/1	0.79	0.17	130,130,130,130	0
58	MG	14	3151	1/1	0.79	0.24	109,109,109,109	0
58	MG	13	1661	1/1	0.80	0.21	90,90,90,90	0
58	MG	1G	1633	1/1	0.80	0.08	137,137,137,137	0
58	MG	14	3105	1/1	0.80	0.29	110,110,110,110	0
58	MG	13	1671	1/1	0.80	0.12	107,107,107,107	0
58	MG	1H	3275	1/1	0.80	0.15	83,83,83,83	0
58	MG	13	1604	1/1	0.80	0.29	90,90,90,90	0
58	MG	14	3171	1/1	0.80	0.35	91,91,91,91	0
58	MG	1G	1638	1/1	0.80	0.33	102,102,102,102	0
58	MG	1H	3038	1/1	0.80	0.18	102,102,102,102	0
58	MG	1H	3024	1/1	0.80	0.19	99,99,99,99	0
58	MG	14	3183	1/1	0.80	0.26	89,89,89,89	0
58	MG	14	3238	1/1	0.80	0.36	83,83,83,83	0
58	MG	1H	3196	1/1	0.80	0.26	102,102,102,102	0
58	MG	14	3342	1/1	0.80	0.14	120,120,120,120	0
58	MG	13	1674	1/1	0.80	0.18	121,121,121,121	0
58	MG	13	1691	1/1	0.80	0.35	94,94,94,94	0
58	MG	1J	203	1/1	0.80	0.22	124,124,124,124	0
58	MG	1G	1622	1/1	0.80	0.24	103,103,103,103	0
58	MG	1H	3032	1/1	0.80	0.27	110,110,110,110	0
58	MG	1G	1656	1/1	0.80	0.20	102,102,102,102	0
58	MG	14	3287	1/1	0.80	0.20	101,101,101,101	0
58	MG	1H	3063	1/1	0.80	0.23	57,57,57,57	0
58	MG	13	1624	1/1	0.80	0.20	118,118,118,118	0
58	MG	14	3166	1/1	0.81	0.16	79,79,79,79	0
58	MG	13	1641	1/1	0.81	0.13	112,112,112,112	0
58	MG	14	3224	1/1	0.81	0.05	105,105,105,105	0
58	MG	1H	3219	1/1	0.81	0.17	120,120,120,120	0
58	MG	14	3327	1/1	0.81	0.23	83,83,83,83	0
58	MG	13	1635	1/1	0.81	0.27	111,111,111,111	0
58	MG	1G	1654	1/1	0.81	0.24	110,110,110,110	0
58	MG	14	3011	1/1	0.81	0.32	85,85,85,85	0
58	MG	1H	3222	1/1	0.81	0.19	94,94,94,94	0
58	MG	1H	3003	1/1	0.81	0.24	72,72,72,72	0
58	MG	13	1623	1/1	0.81	0.21	88,88,88,88	0
58	MG	13	1672	1/1	0.81	0.14	133,133,133,133	0
58	MG	1H	3207	1/1	0.81	0.24	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3039	1/1	0.81	0.27	100,100,100,100	0
58	MG	14	3075	1/1	0.81	0.29	96,96,96,96	0
58	MG	14	3080	1/1	0.81	0.28	105,105,105,105	0
58	MG	14	3251	1/1	0.81	0.12	90,90,90,90	0
58	MG	1G	1641	1/1	0.81	0.21	131,131,131,131	0
58	MG	1H	3043	1/1	0.81	0.18	75,75,75,75	0
58	MG	14	3162	1/1	0.81	0.36	90,90,90,90	0
58	MG	85	202	1/1	0.81	0.47	100,100,100,100	0
58	MG	5E	201	1/1	0.81	0.12	107,107,107,107	0
58	MG	1H	3294	1/1	0.81	0.16	103,103,103,103	0
58	MG	13	1666	1/1	0.82	0.11	99,99,99,99	0
58	MG	14	3106	1/1	0.82	0.21	85,85,85,85	0
58	MG	14	3108	1/1	0.82	0.18	88,88,88,88	0
58	MG	1H	3051	1/1	0.82	0.18	90,90,90,90	0
58	MG	1H	3303	1/1	0.82	0.21	102,102,102,102	0
58	MG	1H	3277	1/1	0.82	0.09	122,122,122,122	0
58	MG	1H	3118	1/1	0.82	0.26	104,104,104,104	0
58	MG	1H	3066	1/1	0.82	0.29	86,86,86,86	0
58	MG	1H	3179	1/1	0.82	0.23	101,101,101,101	0
58	MG	14	3288	1/1	0.82	0.18	120,120,120,120	0
58	MG	14	3133	1/1	0.82	0.23	98,98,98,98	0
58	MG	5I	101	1/1	0.82	0.11	110,110,110,110	0
58	MG	14	3291	1/1	0.82	0.21	96,96,96,96	0
58	MG	14	3246	1/1	0.82	0.15	95,95,95,95	0
58	MG	1H	3057	1/1	0.82	0.20	75,75,75,75	0
58	MG	14	3191	1/1	0.82	0.26	93,93,93,93	0
58	MG	1H	3158	1/1	0.82	0.16	105,105,105,105	0
58	MG	1H	3093	1/1	0.82	0.35	88,88,88,88	0
58	MG	14	3144	1/1	0.82	0.16	112,112,112,112	0
58	MG	1H	3162	1/1	0.82	0.29	106,106,106,106	0
58	MG	14	3147	1/1	0.82	0.24	110,110,110,110	0
58	MG	14	3149	1/1	0.82	0.32	94,94,94,94	0
58	MG	14	3213	1/1	0.82	0.15	114,114,114,114	0
58	MG	13	1696	1/1	0.82	0.25	95,95,95,95	0
58	MG	1G	1660	1/1	0.82	0.20	111,111,111,111	0
58	MG	14	3308	1/1	0.82	0.41	104,104,104,104	0
58	MG	1H	3232	1/1	0.82	0.20	98,98,98,98	0
58	MG	1H	3072	1/1	0.82	0.15	120,120,120,120	0
58	MG	14	3029	1/1	0.82	0.22	90,90,90,90	0
58	MG	1H	3109	1/1	0.82	0.25	102,102,102,102	0
58	MG	1H	3231	1/1	0.83	0.25	85,85,85,85	0
58	MG	1H	3097	1/1	0.83	0.20	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	14	3296	1/1	0.83	0.16	110,110,110,110	0
58	MG	1H	3280	1/1	0.83	0.13	114,114,114,114	0
58	MG	14	3098	1/1	0.83	0.20	86,86,86,86	0
58	MG	1H	3215	1/1	0.83	0.25	69,69,69,69	0
58	MG	1H	3166	1/1	0.83	0.28	95,95,95,95	0
58	MG	14	3148	1/1	0.83	0.27	94,94,94,94	0
58	MG	13	1687	1/1	0.83	0.42	100,100,100,100	0
58	MG	1G	1662	1/1	0.83	0.19	118,118,118,118	0
58	MG	14	3109	1/1	0.83	0.27	94,94,94,94	0
58	MG	1H	3321	1/1	0.83	0.23	84,84,84,84	0
58	MG	1H	3145	1/1	0.83	0.25	117,117,117,117	0
58	MG	14	3196	1/1	0.83	0.20	98,98,98,98	0
58	MG	14	3197	1/1	0.83	0.23	124,124,124,124	0
58	MG	14	3155	1/1	0.83	0.18	101,101,101,101	0
58	MG	1H	3073	1/1	0.83	0.33	84,84,84,84	0
58	MG	14	3161	1/1	0.83	0.21	80,80,80,80	0
58	MG	1H	3074	1/1	0.83	0.24	94,94,94,94	0
58	MG	1H	3250	1/1	0.83	0.13	94,94,94,94	0
58	MG	14	3061	1/1	0.83	0.15	102,102,102,102	0
58	MG	1H	3134	1/1	0.83	0.21	103,103,103,103	0
58	MG	1H	3292	1/1	0.83	0.17	82,82,82,82	0
58	MG	14	3201	1/1	0.84	0.31	91,91,91,91	0
58	MG	14	3016	1/1	0.84	0.40	68,68,68,68	0
58	MG	14	3065	1/1	0.84	0.20	80,80,80,80	0
58	MG	13	1668	1/1	0.84	0.12	117,117,117,117	0
58	MG	1H	3203	1/1	0.84	0.20	91,91,91,91	0
58	MG	14	3078	1/1	0.84	0.19	82,82,82,82	0
58	MG	1G	1658	1/1	0.84	0.20	99,99,99,99	0
58	MG	1H	3017	1/1	0.84	0.21	79,79,79,79	0
58	MG	14	3096	1/1	0.84	0.26	57,57,57,57	0
58	MG	14	3278	1/1	0.84	0.18	86,86,86,86	0
58	MG	14	3279	1/1	0.84	0.20	103,103,103,103	0
58	MG	13	1667	1/1	0.84	0.23	91,91,91,91	0
58	MG	1H	3117	1/1	0.84	0.14	75,75,75,75	0
58	MG	1H	3075	1/1	0.84	0.39	82,82,82,82	0
58	MG	1H	3076	1/1	0.84	0.25	78,78,78,78	0
58	MG	1H	3184	1/1	0.84	0.34	94,94,94,94	0
58	MG	16	203	1/1	0.84	0.13	112,112,112,112	0
58	MG	1H	3010	1/1	0.84	0.24	98,98,98,98	0
58	MG	14	3035	1/1	0.84	0.18	89,89,89,89	0
58	MG	14	3039	1/1	0.84	0.28	86,86,86,86	0
58	MG	14	3116	1/1	0.84	0.30	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3148	1/1	0.84	0.20	92,92,92,92	0
58	MG	14	3049	1/1	0.84	0.28	74,74,74,74	0
58	MG	14	3130	1/1	0.84	0.18	93,93,93,93	0
58	MG	14	3250	1/1	0.84	0.20	79,79,79,79	0
58	MG	1H	3127	1/1	0.84	0.19	79,79,79,79	0
58	MG	13	1683	1/1	0.84	0.26	119,119,119,119	0
58	MG	1G	1623	1/1	0.84	0.23	100,100,100,100	0
58	MG	1G	1626	1/1	0.84	0.19	118,118,118,118	0
58	MG	1G	1648	1/1	0.84	0.24	128,128,128,128	0
58	MG	14	3004	1/1	0.84	0.29	76,76,76,76	0
58	MG	1G	1649	1/1	0.84	0.18	128,128,128,128	0
58	MG	1H	3344	1/1	0.84	0.20	81,81,81,81	0
58	MG	14	3013	1/1	0.84	0.19	98,98,98,98	0
58	MG	1H	3020	1/1	0.85	0.26	84,84,84,84	0
58	MG	14	3120	1/1	0.85	0.09	94,94,94,94	0
58	MG	13	1617	1/1	0.85	0.22	97,97,97,97	0
58	MG	13	1693	1/1	0.85	0.28	108,108,108,108	0
58	MG	14	3076	1/1	0.85	0.17	83,83,83,83	0
58	MG	14	3205	1/1	0.85	0.12	97,97,97,97	0
58	MG	1H	3236	1/1	0.85	0.19	89,89,89,89	0
58	MG	14	3167	1/1	0.85	0.15	105,105,105,105	0
58	MG	41	201	1/1	0.85	0.14	102,102,102,102	0
58	MG	1H	3048	1/1	0.85	0.21	80,80,80,80	0
58	MG	14	3015	1/1	0.85	0.32	82,82,82,82	0
58	MG	14	3220	1/1	0.85	0.20	97,97,97,97	0
58	MG	14	3332	1/1	0.85	0.23	98,98,98,98	0
58	MG	1H	3180	1/1	0.85	0.12	97,97,97,97	0
58	MG	14	3334	1/1	0.85	0.19	92,92,92,92	0
58	MG	14	3177	1/1	0.85	0.33	87,87,87,87	0
58	MG	13	1659	1/1	0.85	0.06	116,116,116,116	0
58	MG	14	3181	1/1	0.85	0.41	91,91,91,91	0
58	MG	14	3270	1/1	0.85	0.23	97,97,97,97	0
58	MG	14	3102	1/1	0.85	0.15	92,92,92,92	0
58	MG	1H	3137	1/1	0.85	0.22	93,93,93,93	0
58	MG	1H	3307	1/1	0.85	0.23	97,97,97,97	0
58	MG	1G	1646	1/1	0.85	0.14	126,126,126,126	0
58	MG	1G	1629	1/1	0.85	0.16	121,121,121,121	0
58	MG	14	3027	1/1	0.85	0.20	79,79,79,79	0
58	MG	13	1649	1/1	0.85	0.12	118,118,118,118	0
58	MG	14	3312	1/1	0.85	0.17	97,97,97,97	0
58	MG	55	201	1/1	0.85	0.31	96,96,96,96	0
58	MG	14	3280	1/1	0.85	0.29	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3126	1/1	0.85	0.14	83,83,83,83	0
58	MG	1H	3253	1/1	0.85	0.25	84,84,84,84	0
58	MG	14	3021	1/1	0.86	0.20	73,73,73,73	0
58	MG	1H	3009	1/1	0.86	0.13	98,98,98,98	0
58	MG	1G	1625	1/1	0.86	0.12	136,136,136,136	0
58	MG	1H	3157	1/1	0.86	0.24	88,88,88,88	0
58	MG	1H	3100	1/1	0.86	0.36	82,82,82,82	0
58	MG	14	3111	1/1	0.86	0.25	82,82,82,82	0
58	MG	14	3158	1/1	0.86	0.20	92,92,92,92	0
58	MG	1H	3329	1/1	0.86	0.12	105,105,105,105	0
58	MG	1H	3243	1/1	0.86	0.10	96,96,96,96	0
58	MG	14	3206	1/1	0.86	0.09	88,88,88,88	0
58	MG	14	3330	1/1	0.86	0.27	104,104,104,104	0
58	MG	1H	3002	1/1	0.86	0.24	64,64,64,64	0
58	MG	1H	3224	1/1	0.86	0.18	76,76,76,76	0
58	MG	13	1677	1/1	0.86	0.49	113,113,113,113	0
58	MG	1H	3085	1/1	0.86	0.21	92,92,92,92	0
58	MG	13	1618	1/1	0.86	0.15	108,108,108,108	0
58	MG	1H	3089	1/1	0.86	0.20	83,83,83,83	0
58	MG	13	1620	1/1	0.86	0.21	117,117,117,117	0
58	MG	14	3041	1/1	0.86	0.20	80,80,80,80	0
58	MG	14	3084	1/1	0.86	0.19	92,92,92,92	0
58	MG	14	3230	1/1	0.86	0.10	122,122,122,122	0
58	MG	14	3042	1/1	0.86	0.15	74,74,74,74	0
58	MG	14	3273	1/1	0.86	0.15	110,110,110,110	0
58	MG	14	3138	1/1	0.86	0.12	96,96,96,96	0
58	MG	29	301	1/1	0.86	0.20	69,69,69,69	0
58	MG	14	3091	1/1	0.86	0.22	92,92,92,92	0
58	MG	14	3044	1/1	0.86	0.12	88,88,88,88	0
58	MG	45	201	1/1	0.86	0.28	101,101,101,101	0
58	MG	1H	3019	1/1	0.86	0.28	65,65,65,65	0
58	MG	1H	3305	1/1	0.86	0.27	96,96,96,96	0
58	MG	1H	3214	1/1	0.86	0.19	65,65,65,65	0
58	MG	14	3103	1/1	0.86	0.15	81,81,81,81	0
58	MG	14	3282	1/1	0.86	0.13	96,96,96,96	0
58	MG	14	3266	1/1	0.87	0.16	99,99,99,99	0
58	MG	16	201	1/1	0.87	0.10	114,114,114,114	0
58	MG	1H	3065	1/1	0.87	0.21	77,77,77,77	0
58	MG	14	3208	1/1	0.87	0.11	93,93,93,93	0
58	MG	1H	3110	1/1	0.87	0.16	83,83,83,83	0
58	MG	1H	3053	1/1	0.87	0.20	81,81,81,81	0
58	MG	13	1739	1/1	0.87	0.21	113,113,113,113	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3177	1/1	0.87	0.37	93,93,93,93	0
58	MG	1H	3136	1/1	0.87	0.31	80,80,80,80	0
58	MG	1H	3156	1/1	0.87	0.11	121,121,121,121	0
58	MG	1H	3311	1/1	0.87	0.11	77,77,77,77	0
58	MG	14	3323	1/1	0.87	0.08	159,159,159,159	0
58	MG	14	3107	1/1	0.87	0.21	80,80,80,80	0
58	MG	J8	102	1/1	0.87	0.23	77,77,77,77	0
58	MG	Q8	101	1/1	0.87	0.28	89,89,89,89	0
58	MG	1H	3047	1/1	0.87	0.33	71,71,71,71	0
58	MG	1H	3213	1/1	0.87	0.13	81,81,81,81	0
58	MG	1H	3283	1/1	0.87	0.51	95,95,95,95	0
58	MG	14	3007	1/1	0.87	0.26	81,81,81,81	0
58	MG	14	3115	1/1	0.87	0.20	88,88,88,88	0
58	MG	14	3055	1/1	0.87	0.18	77,77,77,77	0
58	MG	1H	3139	1/1	0.87	0.13	75,75,75,75	0
58	MG	1H	3248	1/1	0.87	0.44	93,93,93,93	0
58	MG	14	3336	1/1	0.87	0.29	120,120,120,120	0
58	MG	14	3124	1/1	0.87	0.24	90,90,90,90	0
58	MG	1H	3037	1/1	0.87	0.19	87,87,87,87	0
58	MG	13	1657	1/1	0.87	0.14	103,103,103,103	0
58	MG	14	3341	1/1	0.87	0.14	105,105,105,105	0
58	MG	1H	3189	1/1	0.87	0.31	93,93,93,93	0
58	MG	1H	3163	1/1	0.87	0.31	84,84,84,84	0
58	MG	1G	1650	1/1	0.87	0.24	98,98,98,98	0
58	MG	14	3253	1/1	0.87	0.10	90,90,90,90	0
58	MG	1H	3083	1/1	0.87	0.14	74,74,74,74	0
58	MG	1J	205	1/1	0.87	0.19	122,122,122,122	0
58	MG	1J	206	1/1	0.87	0.11	130,130,130,130	0
58	MG	1H	3225	1/1	0.87	0.27	70,70,70,70	0
58	MG	14	3137	1/1	0.87	0.08	119,119,119,119	0
58	MG	2K	101	1/1	0.87	0.23	84,84,84,84	0
58	MG	1H	3199	1/1	0.87	0.27	87,87,87,87	0
58	MG	1H	3326	1/1	0.87	0.24	97,97,97,97	0
58	MG	1H	3107	1/1	0.87	0.20	95,95,95,95	0
58	MG	14	3085	1/1	0.87	0.20	85,85,85,85	0
58	MG	14	3088	1/1	0.87	0.22	78,78,78,78	0
58	MG	14	3204	1/1	0.87	0.20	73,73,73,73	0
58	MG	1H	3027	1/1	0.88	0.12	95,95,95,95	0
58	MG	1H	3056	1/1	0.88	0.13	89,89,89,89	0
58	MG	14	3066	1/1	0.88	0.17	95,95,95,95	0
58	MG	1G	1610	1/1	0.88	0.14	118,118,118,118	0
58	MG	1H	3298	1/1	0.88	0.29	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	14	3019	1/1	0.88	0.19	87,87,87,87	0
58	MG	1H	3217	1/1	0.88	0.09	81,81,81,81	0
58	MG	1H	3200	1/1	0.88	0.21	79,79,79,79	0
58	MG	1H	3029	1/1	0.88	0.21	92,92,92,92	0
58	MG	1G	1618	1/1	0.88	0.15	131,131,131,131	0
58	MG	1G	1619	1/1	0.88	0.12	109,109,109,109	0
58	MG	1H	3304	1/1	0.88	0.26	94,94,94,94	0
58	MG	1H	3481	1/1	0.88	0.07	133,133,133,133	0
58	MG	14	3094	1/1	0.88	0.26	82,82,82,82	0
58	MG	14	3095	1/1	0.88	0.25	75,75,75,75	0
58	MG	1H	3121	1/1	0.88	0.25	93,93,93,93	0
58	MG	1H	3488	1/1	0.88	0.07	92,92,92,92	0
58	MG	1G	1624	1/1	0.88	0.20	92,92,92,92	0
58	MG	14	3157	1/1	0.88	0.10	81,81,81,81	0
58	MG	14	3228	1/1	0.88	0.14	96,96,96,96	0
58	MG	1H	3204	1/1	0.88	0.10	87,87,87,87	0
58	MG	1H	3124	1/1	0.88	0.19	77,77,77,77	0
58	MG	14	3104	1/1	0.88	0.21	78,78,78,78	0
58	MG	1H	3252	1/1	0.88	0.17	75,75,75,75	0
58	MG	13	1609	1/1	0.88	0.14	99,99,99,99	0
58	MG	1H	3334	1/1	0.88	0.15	77,77,77,77	0
58	MG	1H	3227	1/1	0.88	0.19	92,92,92,92	0
58	MG	1G	1631	1/1	0.88	0.28	97,97,97,97	0
58	MG	21	301	1/1	0.88	0.23	69,69,69,69	0
58	MG	1H	3021	1/1	0.88	0.19	86,86,86,86	0
58	MG	1H	3172	1/1	0.88	0.18	89,89,89,89	0
58	MG	1H	3260	1/1	0.88	0.35	95,95,95,95	0
58	MG	1H	3188	1/1	0.88	0.27	84,84,84,84	0
58	MG	14	3003	1/1	0.88	0.13	76,76,76,76	0
58	MG	1H	3006	1/1	0.88	0.17	71,71,71,71	0
58	MG	1H	3174	1/1	0.88	0.24	99,99,99,99	0
58	MG	14	3122	1/1	0.88	0.26	95,95,95,95	0
58	MG	14	3186	1/1	0.88	0.29	100,100,100,100	0
58	MG	14	3123	1/1	0.88	0.19	109,109,109,109	0
58	MG	13	1631	1/1	0.88	0.12	82,82,82,82	0
58	MG	14	3009	1/1	0.88	0.18	74,74,74,74	0
58	MG	14	3010	1/1	0.88	0.19	73,73,73,73	0
58	MG	1H	3267	1/1	0.88	0.14	85,85,85,85	0
58	MG	14	3259	1/1	0.89	0.30	111,111,111,111	0
58	MG	14	3141	1/1	0.89	0.17	76,76,76,76	0
58	MG	1H	3125	1/1	0.89	0.16	75,75,75,75	0
58	MG	1H	3181	1/1	0.89	0.17	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1G	1668	1/1	0.89	0.09	138,138,138,138	0
58	MG	13	1669	1/1	0.89	0.13	120,120,120,120	0
58	MG	14	3034	1/1	0.89	0.18	96,96,96,96	0
58	MG	1H	3013	1/1	0.89	0.23	71,71,71,71	0
58	MG	1H	3186	1/1	0.89	0.18	96,96,96,96	0
58	MG	1G	1637	1/1	0.89	0.11	101,101,101,101	0
58	MG	13	1651	1/1	0.89	0.17	96,96,96,96	0
58	MG	14	3212	1/1	0.89	0.11	105,105,105,105	0
58	MG	14	3043	1/1	0.89	0.16	69,69,69,69	0
58	MG	13	1706	1/1	0.89	0.30	91,91,91,91	0
58	MG	1G	1609	1/1	0.89	0.10	113,113,113,113	0
58	MG	1H	3094	1/1	0.89	0.18	77,77,77,77	0
58	MG	1H	3190	1/1	0.89	0.14	108,108,108,108	0
58	MG	1H	3354	1/1	0.89	0.09	98,98,98,98	0
58	MG	14	3222	1/1	0.89	0.37	95,95,95,95	0
58	MG	1H	3193	1/1	0.89	0.26	104,104,104,104	0
58	MG	1H	3302	1/1	0.89	0.21	89,89,89,89	0
58	MG	1H	3095	1/1	0.89	0.40	95,95,95,95	0
58	MG	1H	3487	1/1	0.89	0.12	96,96,96,96	0
58	MG	14	3014	1/1	0.89	0.22	82,82,82,82	0
58	MG	13	1602	1/1	0.89	0.20	98,98,98,98	0
58	MG	1H	3278	1/1	0.89	0.30	90,90,90,90	0
58	MG	1H	3098	1/1	0.89	0.34	70,70,70,70	0
58	MG	16	204	1/1	0.89	0.09	106,106,106,106	0
58	MG	14	3175	1/1	0.89	0.20	93,93,93,93	0
58	MG	14	3237	1/1	0.89	0.14	181,181,181,181	0
58	MG	14	3406	1/1	0.89	0.06	121,121,121,121	0
58	MG	14	3176	1/1	0.89	0.19	96,96,96,96	0
58	MG	14	3020	1/1	0.89	0.23	93,93,93,93	0
58	MG	1H	3221	1/1	0.89	0.19	81,81,81,81	0
58	MG	1H	3251	1/1	0.89	0.15	75,75,75,75	0
58	MG	14	3069	1/1	0.89	0.15	106,106,106,106	0
58	MG	14	3074	1/1	0.89	0.27	70,70,70,70	0
58	MG	13	1701	1/1	0.89	0.17	103,103,103,103	0
58	MG	14	3248	1/1	0.89	0.23	89,89,89,89	0
58	MG	13	1642	1/1	0.89	0.14	104,104,104,104	0
58	MG	1H	3159	1/1	0.89	0.16	89,89,89,89	0
58	MG	1H	3287	1/1	0.89	0.28	96,96,96,96	0
58	MG	1H	3160	1/1	0.89	0.21	88,88,88,88	0
58	MG	13	1628	1/1	0.89	0.18	94,94,94,94	0
58	MG	14	3194	1/1	0.89	0.17	93,93,93,93	0
58	MG	14	3086	1/1	0.89	0.30	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	13	1633	1/1	0.90	0.34	88,88,88,88	0
58	MG	1G	1655	1/1	0.90	0.07	176,176,176,176	0
58	MG	14	3017	1/1	0.90	0.25	68,68,68,68	0
58	MG	1H	3335	1/1	0.90	0.17	100,100,100,100	0
58	MG	1G	1657	1/1	0.90	0.07	163,163,163,163	0
58	MG	14	3221	1/1	0.90	0.10	80,80,80,80	0
58	MG	1H	3028	1/1	0.90	0.17	82,82,82,82	0
58	MG	14	3114	1/1	0.90	0.25	66,66,66,66	0
58	MG	14	3276	1/1	0.90	0.10	130,130,130,130	0
58	MG	1H	3144	1/1	0.90	0.27	89,89,89,89	0
58	MG	14	3169	1/1	0.90	0.19	69,69,69,69	0
58	MG	1H	3254	1/1	0.90	0.32	91,91,91,91	0
58	MG	13	1658	1/1	0.90	0.16	89,89,89,89	0
58	MG	14	3067	1/1	0.90	0.12	100,100,100,100	0
58	MG	1H	3092	1/1	0.90	0.19	76,76,76,76	0
58	MG	1H	3164	1/1	0.90	0.09	86,86,86,86	0
58	MG	1H	3108	1/1	0.90	0.33	92,92,92,92	0
58	MG	14	3178	1/1	0.90	0.21	94,94,94,94	0
58	MG	13	1638	1/1	0.90	0.27	82,82,82,82	0
58	MG	1H	3234	1/1	0.90	0.38	90,90,90,90	0
58	MG	14	3131	1/1	0.90	0.20	79,79,79,79	0
58	MG	13	1697	1/1	0.90	0.30	98,98,98,98	0
58	MG	1H	3151	1/1	0.90	0.07	90,90,90,90	0
58	MG	14	3081	1/1	0.90	0.17	89,89,89,89	0
58	MG	1H	3111	1/1	0.90	0.14	64,64,64,64	0
58	MG	1H	3153	1/1	0.90	0.12	86,86,86,86	0
58	MG	1H	3001	1/1	0.90	0.22	66,66,66,66	0
58	MG	14	3420	1/1	0.90	0.11	118,118,118,118	0
58	MG	14	3087	1/1	0.90	0.23	68,68,68,68	0
58	MG	2L	102	1/1	0.90	0.39	95,95,95,95	0
58	MG	1H	3270	1/1	0.90	0.20	87,87,87,87	0
58	MG	14	3040	1/1	0.90	0.20	72,72,72,72	0
58	MG	1H	3325	1/1	0.90	0.20	100,100,100,100	0
58	MG	1H	3299	1/1	0.90	0.25	94,94,94,94	0
58	MG	1H	3218	1/1	0.90	0.14	68,68,68,68	0
58	MG	29	302	1/1	0.90	0.17	94,94,94,94	0
58	MG	1H	3273	1/1	0.90	0.12	85,85,85,85	0
58	MG	1H	3096	1/1	0.90	0.23	76,76,76,76	0
58	MG	14	3048	1/1	0.90	0.17	90,90,90,90	0
58	MG	1H	3246	1/1	0.90	0.25	87,87,87,87	0
58	MG	13	1639	1/1	0.90	0.16	87,87,87,87	0
58	MG	16	202	1/1	0.90	0.11	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	5E	202	1/1	0.90	0.06	111,111,111,111	0
58	MG	1H	3099	1/1	0.90	0.20	74,74,74,74	0
58	MG	1G	1651	1/1	0.91	0.07	128,128,128,128	0
58	MG	1H	3284	1/1	0.91	0.08	97,97,97,97	0
58	MG	14	3097	1/1	0.91	0.14	83,83,83,83	0
58	MG	14	3184	1/1	0.91	0.16	92,92,92,92	0
58	MG	1H	3044	1/1	0.91	0.15	68,68,68,68	0
58	MG	1H	3259	1/1	0.91	0.07	106,106,106,106	0
58	MG	14	3187	1/1	0.91	0.15	96,96,96,96	0
58	MG	1H	3026	1/1	0.91	0.18	80,80,80,80	0
58	MG	11	301	1/1	0.91	0.15	73,73,73,73	0
58	MG	1H	3170	1/1	0.91	0.07	92,92,92,92	0
58	MG	1H	3123	1/1	0.91	0.11	85,85,85,85	0
58	MG	1H	3140	1/1	0.91	0.20	89,89,89,89	0
58	MG	I8	101	1/1	0.91	0.21	70,70,70,70	0
58	MG	1H	3239	1/1	0.91	0.17	71,71,71,71	0
58	MG	13	1630	1/1	0.91	0.07	74,74,74,74	0
58	MG	1H	3293	1/1	0.91	0.25	94,94,94,94	0
58	MG	1G	1601	1/1	0.91	0.14	115,115,115,115	0
58	MG	14	3252	1/1	0.91	0.09	106,106,106,106	0
58	MG	1H	3142	1/1	0.91	0.23	89,89,89,89	0
58	MG	13	1741	1/1	0.91	0.15	88,88,88,88	0
58	MG	14	3159	1/1	0.91	0.17	81,81,81,81	0
58	MG	1H	3018	1/1	0.91	0.26	66,66,66,66	0
58	MG	1H	3052	1/1	0.91	0.19	69,69,69,69	0
58	MG	1G	1639	1/1	0.91	0.31	93,93,93,93	0
58	MG	14	3210	1/1	0.91	0.11	113,113,113,113	0
58	MG	1H	3042	1/1	0.91	0.20	59,59,59,59	0
58	MG	1H	3223	1/1	0.91	0.08	96,96,96,96	0
58	MG	1H	3147	1/1	0.91	0.32	93,93,93,93	0
58	MG	1H	3276	1/1	0.91	0.17	91,91,91,91	0
58	MG	14	3082	1/1	0.91	0.33	92,92,92,92	0
58	MG	1H	3014	1/1	0.91	0.11	65,65,65,65	0
58	MG	1H	3131	1/1	0.91	0.22	88,88,88,88	0
58	MG	1H	3279	1/1	0.91	0.13	106,106,106,106	0
58	MG	1H	3183	1/1	0.91	0.32	94,94,94,94	0
58	MG	1H	3104	1/1	0.91	0.18	66,66,66,66	0
58	MG	1H	3185	1/1	0.91	0.13	68,68,68,68	0
58	MG	14	3046	1/1	0.91	0.17	86,86,86,86	0
58	MG	1H	3078	1/1	0.91	0.15	80,80,80,80	0
58	MG	14	3229	1/1	0.91	0.14	93,93,93,93	0
58	MG	1H	3168	1/1	0.92	0.27	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1G	1675	1/1	0.92	0.09	150,150,150,150	0
58	MG	14	3236	1/1	0.92	0.07	121,121,121,121	0
58	MG	14	3072	1/1	0.92	0.24	84,84,84,84	0
58	MG	14	3164	1/1	0.92	0.16	93,93,93,93	0
58	MG	1G	1676	1/1	0.92	0.13	134,134,134,134	0
58	MG	1H	3050	1/1	0.92	0.14	74,74,74,74	0
58	MG	1H	3258	1/1	0.92	0.18	99,99,99,99	0
58	MG	1H	3059	1/1	0.92	0.09	110,110,110,110	0
58	MG	14	3203	1/1	0.92	0.18	84,84,84,84	0
58	MG	21	302	1/1	0.92	0.08	91,91,91,91	0
58	MG	14	3140	1/1	0.92	0.09	79,79,79,79	0
58	MG	1H	3171	1/1	0.92	0.46	83,83,83,83	0
58	MG	14	3173	1/1	0.92	0.10	96,96,96,96	0
58	MG	14	3209	1/1	0.92	0.16	90,90,90,90	0
58	MG	1H	3079	1/1	0.92	0.28	68,68,68,68	0
58	MG	14	3211	1/1	0.92	0.10	78,78,78,78	0
58	MG	1H	3133	1/1	0.92	0.07	83,83,83,83	0
58	MG	1H	3106	1/1	0.92	0.08	82,82,82,82	0
58	MG	14	3214	1/1	0.92	0.24	94,94,94,94	0
58	MG	1H	3012	1/1	0.92	0.35	93,93,93,93	0
58	MG	14	3358	1/1	0.92	0.08	107,107,107,107	0
58	MG	1H	3045	1/1	0.92	0.15	68,68,68,68	0
58	MG	14	3008	1/1	0.92	0.27	77,77,77,77	0
58	MG	1H	3192	1/1	0.92	0.25	85,85,85,85	0
58	MG	1H	3211	1/1	0.92	0.29	90,90,90,90	0
58	MG	1H	3041	1/1	0.92	0.14	73,73,73,73	0
58	MG	13	1654	1/1	0.92	0.15	111,111,111,111	0
58	MG	14	3305	1/1	0.92	0.10	127,127,127,127	0
58	MG	14	3154	1/1	0.92	0.09	84,84,84,84	0
58	MG	13	1607	1/1	0.92	0.08	101,101,101,101	0
58	MG	14	3268	1/1	0.92	0.23	84,84,84,84	0
58	MG	14	3225	1/1	0.92	0.21	95,95,95,95	0
58	MG	1H	3087	1/1	0.92	0.17	69,69,69,69	0
58	MG	14	3125	1/1	0.92	0.09	102,102,102,102	0
58	MG	14	3189	1/1	0.92	0.15	87,87,87,87	0
58	MG	14	3190	1/1	0.92	0.15	91,91,91,91	0
58	MG	1H	3068	1/1	0.92	0.24	70,70,70,70	0
58	MG	14	3099	1/1	0.92	0.12	91,91,91,91	0
58	MG	14	3160	1/1	0.92	0.14	98,98,98,98	0
58	MG	3I	201	1/1	0.93	0.10	87,87,87,87	0
58	MG	1H	3266	1/1	0.93	0.12	65,65,65,65	0
58	MG	13	1611	1/1	0.93	0.14	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	14	3242	1/1	0.93	0.06	92,92,92,92	0
58	MG	14	3243	1/1	0.93	0.15	102,102,102,102	0
58	MG	13	1610	1/1	0.93	0.12	92,92,92,92	0
58	MG	1H	3007	1/1	0.93	0.13	65,65,65,65	0
58	MG	1H	3135	1/1	0.93	0.10	69,69,69,69	0
58	MG	14	3219	1/1	0.93	0.13	83,83,83,83	0
58	MG	14	3090	1/1	0.93	0.08	83,83,83,83	0
58	MG	14	3063	1/1	0.93	0.17	79,79,79,79	0
58	MG	1H	3352	1/1	0.93	0.19	75,75,75,75	0
58	MG	14	3401	1/1	0.93	0.05	127,127,127,127	0
58	MG	1H	3271	1/1	0.93	0.32	87,87,87,87	0
58	MG	14	3314	1/1	0.93	0.27	99,99,99,99	0
58	MG	1H	3103	1/1	0.93	0.35	72,72,72,72	0
58	MG	1G	1661	1/1	0.93	0.10	169,169,169,169	0
58	MG	14	3226	1/1	0.93	0.23	88,88,88,88	0
58	MG	13	1682	1/1	0.93	0.08	93,93,93,93	0
58	MG	13	1689	1/1	0.93	0.18	182,182,182,182	0
58	MG	14	3128	1/1	0.93	0.36	80,80,80,80	0
58	MG	14	3025	1/1	0.93	0.25	87,87,87,87	0
58	MG	14	3006	1/1	0.93	0.17	72,72,72,72	0
58	MG	13	1655	1/1	0.93	0.06	106,106,106,106	0
58	MG	14	3207	1/1	0.93	0.12	107,107,107,107	0
58	MG	1G	1613	1/1	0.93	0.12	114,114,114,114	0
58	MG	14	3079	1/1	0.93	0.11	87,87,87,87	0
58	MG	C8	201	1/1	0.93	0.24	74,74,74,74	0
58	MG	85	201	1/1	0.93	0.13	85,85,85,85	0
58	MG	13	1643	1/1	0.93	0.13	80,80,80,80	0
58	MG	14	3329	1/1	0.93	0.34	91,91,91,91	0
58	MG	1H	3130	1/1	0.93	0.12	79,79,79,79	0
58	MG	L5	101	1/1	0.93	0.32	96,96,96,96	0
60	ZN	G8	201	1/1	0.93	0.14	171,171,171,171	0
58	MG	1H	3228	1/1	0.94	0.31	74,74,74,74	0
58	MG	14	3340	1/1	0.94	0.15	91,91,91,91	0
58	MG	14	3077	1/1	0.94	0.10	83,83,83,83	0
58	MG	1H	3046	1/1	0.94	0.18	61,61,61,61	0
58	MG	1H	3442	1/1	0.94	0.13	63,63,63,63	0
58	MG	1H	3091	1/1	0.94	0.24	58,58,58,58	0
58	MG	14	3404	1/1	0.94	0.06	101,101,101,101	0
58	MG	13	1640	1/1	0.94	0.26	73,73,73,73	0
58	MG	13	1619	1/1	0.94	0.18	81,81,81,81	0
58	MG	14	3083	1/1	0.94	0.12	94,94,94,94	0
58	MG	14	3060	1/1	0.94	0.11	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3197	1/1	0.94	0.35	68,68,68,68	0
58	MG	1H	3122	1/1	0.94	0.07	83,83,83,83	0
58	MG	1H	3114	1/1	0.94	0.08	77,77,77,77	0
58	MG	14	3064	1/1	0.94	0.11	86,86,86,86	0
58	MG	1H	3115	1/1	0.94	0.16	70,70,70,70	0
58	MG	1H	3238	1/1	0.94	0.07	83,83,83,83	0
58	MG	1H	3064	1/1	0.94	0.12	82,82,82,82	0
58	MG	14	3093	1/1	0.94	0.23	71,71,71,71	0
58	MG	14	3249	1/1	0.94	0.07	102,102,102,102	0
58	MG	13	1629	1/1	0.94	0.17	79,79,79,79	0
58	MG	1G	1653	1/1	0.94	0.07	118,118,118,118	0
58	MG	14	3070	1/1	0.94	0.10	94,94,94,94	0
58	MG	1H	3191	1/1	0.94	0.33	95,95,95,95	0
58	MG	14	3254	1/1	0.94	0.17	83,83,83,83	0
58	MG	1H	3353	1/1	0.94	0.14	96,96,96,96	0
58	MG	14	3127	1/1	0.94	0.20	67,67,67,67	0
58	MG	1G	1678	1/1	0.94	0.09	119,119,119,119	0
58	MG	1G	1607	1/1	0.95	0.07	109,109,109,109	0
58	MG	1H	3067	1/1	0.95	0.09	74,74,74,74	0
58	MG	14	3126	1/1	0.95	0.08	95,95,95,95	0
58	MG	14	3244	1/1	0.95	0.10	79,79,79,79	0
58	MG	14	3285	1/1	0.95	0.05	77,77,77,77	0
58	MG	13	1723	1/1	0.95	0.08	134,134,134,134	0
58	MG	1H	3058	1/1	0.95	0.07	76,76,76,76	0
58	MG	1H	3080	1/1	0.95	0.09	73,73,73,73	0
58	MG	1G	1677	1/1	0.95	0.06	185,185,185,185	0
58	MG	1H	3345	1/1	0.95	0.11	79,79,79,79	0
58	MG	13	1686	1/1	0.95	0.09	79,79,79,79	0
58	MG	1G	1615	1/1	0.95	0.18	142,142,142,142	0
58	MG	14	3172	1/1	0.95	0.12	75,75,75,75	0
58	MG	1H	3025	1/1	0.95	0.19	55,55,55,55	0
58	MG	16	206	1/1	0.95	0.07	89,89,89,89	0
58	MG	14	3100	1/1	0.95	0.07	107,107,107,107	0
58	MG	13	1622	1/1	0.95	0.11	99,99,99,99	0
58	MG	1H	3195	1/1	0.95	0.31	96,96,96,96	0
58	MG	1H	3245	1/1	0.95	0.05	100,100,100,100	0
58	MG	1H	3084	1/1	0.95	0.28	57,57,57,57	0
58	MG	14	3142	1/1	0.95	0.05	99,99,99,99	0
58	MG	14	3071	1/1	0.95	0.10	69,69,69,69	0
58	MG	13	1636	1/1	0.95	0.08	123,123,123,123	0
58	MG	14	3414	1/1	0.95	0.10	108,108,108,108	0
58	MG	14	3415	1/1	0.95	0.04	126,126,126,126	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	14	3417	1/1	0.95	0.07	140,140,140,140	0
58	MG	14	3145	1/1	0.95	0.12	76,76,76,76	0
58	MG	1H	3265	1/1	0.95	0.30	100,100,100,100	0
58	MG	14	3306	1/1	0.95	0.09	129,129,129,129	0
58	MG	14	3307	1/1	0.95	0.05	80,80,80,80	0
58	MG	13	1615	1/1	0.95	0.12	90,90,90,90	0
58	MG	1H	3113	1/1	0.95	0.05	59,59,59,59	0
58	MG	1H	3411	1/1	0.95	0.07	94,94,94,94	0
58	MG	1H	3423	1/1	0.95	0.13	92,92,92,92	0
58	MG	1H	3438	1/1	0.95	0.13	110,110,110,110	0
58	MG	13	1601	1/1	0.95	0.12	86,86,86,86	0
58	MG	1H	3465	1/1	0.95	0.07	112,112,112,112	0
58	MG	1H	3479	1/1	0.95	0.07	91,91,91,91	0
58	MG	1H	3101	1/1	0.95	0.13	59,59,59,59	0
58	MG	1H	3483	1/1	0.95	0.05	119,119,119,119	0
58	MG	14	3118	1/1	0.95	0.12	73,73,73,73	0
58	MG	1H	3484	1/1	0.95	0.10	81,81,81,81	0
58	MG	14	3198	1/1	0.95	0.06	109,109,109,109	0
58	MG	14	3121	1/1	0.95	0.24	69,69,69,69	0
58	MG	1H	3485	1/1	0.95	0.08	83,83,83,83	0
58	MG	1H	3022	1/1	0.95	0.15	69,69,69,69	0
58	MG	14	3139	1/1	0.96	0.09	75,75,75,75	0
58	MG	1G	1617	1/1	0.96	0.06	159,159,159,159	0
58	MG	1H	3241	1/1	0.96	0.07	100,100,100,100	0
58	MG	14	3386	1/1	0.96	0.06	83,83,83,83	0
58	MG	14	3396	1/1	0.96	0.14	96,96,96,96	0
58	MG	13	1738	1/1	0.96	0.10	106,106,106,106	0
58	MG	1H	3015	1/1	0.96	0.53	77,77,77,77	0
58	MG	1H	3399	1/1	0.96	0.08	75,75,75,75	0
58	MG	1H	3061	1/1	0.96	0.35	79,79,79,79	0
58	MG	14	3012	1/1	0.96	0.22	67,67,67,67	0
58	MG	14	3038	1/1	0.96	0.16	67,67,67,67	0
58	MG	14	3092	1/1	0.96	0.10	91,91,91,91	0
58	MG	1H	3216	1/1	0.96	0.12	65,65,65,65	0
58	MG	1H	3040	1/1	0.96	0.21	71,71,71,71	0
58	MG	13	1736	1/1	0.96	0.07	126,126,126,126	0
58	MG	14	3180	1/1	0.96	0.20	81,81,81,81	0
58	MG	1H	3450	1/1	0.96	0.05	75,75,75,75	0
58	MG	1H	3451	1/1	0.96	0.10	85,85,85,85	0
58	MG	1H	3452	1/1	0.96	0.06	102,102,102,102	0
58	MG	1H	3459	1/1	0.96	0.15	102,102,102,102	0
58	MG	1G	1608	1/1	0.96	0.06	119,119,119,119	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	14	3047	1/1	0.96	0.09	102,102,102,102	0
58	MG	1H	3463	1/1	0.96	0.13	103,103,103,103	0
58	MG	1H	3088	1/1	0.96	0.07	81,81,81,81	0
58	MG	45	203	1/1	0.96	0.47	104,104,104,104	0
58	MG	14	3050	1/1	0.96	0.05	87,87,87,87	0
58	MG	16	212	1/1	0.96	0.04	104,104,104,104	0
58	MG	1H	3470	1/1	0.96	0.05	85,85,85,85	0
58	MG	1H	3472	1/1	0.96	0.07	108,108,108,108	0
58	MG	1H	3249	1/1	0.96	0.05	83,83,83,83	0
58	MG	1H	3138	1/1	0.96	0.05	67,67,67,67	0
58	MG	1H	3004	1/1	0.96	0.12	60,60,60,60	0
60	ZN	C5	202	1/1	0.96	0.11	183,183,183,183	0
58	MG	13	1608	1/1	0.97	0.06	90,90,90,90	0
58	MG	14	3036	1/1	0.97	0.09	70,70,70,70	0
58	MG	13	1616	1/1	0.97	0.07	121,121,121,121	0
58	MG	14	3407	1/1	0.97	0.04	121,121,121,121	0
58	MG	1H	3306	1/1	0.97	0.09	77,77,77,77	0
58	MG	13	1665	1/1	0.97	0.05	105,105,105,105	0
58	MG	1H	3462	1/1	0.97	0.05	90,90,90,90	0
58	MG	1H	3401	1/1	0.97	0.04	71,71,71,71	0
58	MG	1H	3403	1/1	0.97	0.04	81,81,81,81	0
58	MG	1H	3055	1/1	0.97	0.05	74,74,74,74	0
58	MG	1H	3412	1/1	0.97	0.09	84,84,84,84	0
58	MG	1H	3201	1/1	0.97	0.46	97,97,97,97	0
58	MG	1H	3426	1/1	0.97	0.14	109,109,109,109	0
58	MG	1H	3433	1/1	0.97	0.15	113,113,113,113	0
58	MG	1H	3437	1/1	0.97	0.05	85,85,85,85	0
58	MG	13	1614	1/1	0.97	0.05	97,97,97,97	0
58	MG	1H	3233	1/1	0.97	0.04	93,93,93,93	0
58	MG	88	201	1/1	0.97	0.06	91,91,91,91	0
58	MG	1H	3448	1/1	0.97	0.07	88,88,88,88	0
58	MG	1H	3449	1/1	0.97	0.07	89,89,89,89	0
58	MG	14	3349	1/1	0.97	0.07	95,95,95,95	0
58	MG	14	3354	1/1	0.97	0.05	87,87,87,87	0
58	MG	1G	1670	1/1	0.97	0.05	112,112,112,112	0
58	MG	14	3366	1/1	0.97	0.04	114,114,114,114	0
58	MG	14	3368	1/1	0.97	0.05	87,87,87,87	0
58	MG	14	3372	1/1	0.97	0.07	134,134,134,134	0
58	MG	14	3381	1/1	0.97	0.09	116,116,116,116	0
58	MG	1G	1673	1/1	0.97	0.17	145,145,145,145	0
58	MG	1G	1674	1/1	0.97	0.04	124,124,124,124	0
58	MG	13	1726	1/1	0.98	0.05	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3365	1/1	0.98	0.04	64,64,64,64	0
58	MG	1H	3443	1/1	0.98	0.11	80,80,80,80	0
58	MG	14	3364	1/1	0.98	0.10	105,105,105,105	0
58	MG	1H	3445	1/1	0.98	0.06	71,71,71,71	0
58	MG	14	3119	1/1	0.98	0.06	83,83,83,83	0
58	MG	14	3369	1/1	0.98	0.06	105,105,105,105	0
58	MG	1H	3447	1/1	0.98	0.04	115,115,115,115	0
58	MG	14	3374	1/1	0.98	0.10	107,107,107,107	0
58	MG	14	3375	1/1	0.98	0.10	117,117,117,117	0
58	MG	14	3376	1/1	0.98	0.04	124,124,124,124	0
58	MG	1H	3369	1/1	0.98	0.07	90,90,90,90	0
58	MG	14	3382	1/1	0.98	0.10	112,112,112,112	0
58	MG	1H	3375	1/1	0.98	0.04	81,81,81,81	0
58	MG	14	3388	1/1	0.98	0.06	88,88,88,88	0
58	MG	1H	3380	1/1	0.98	0.04	89,89,89,89	0
58	MG	14	3398	1/1	0.98	0.06	111,111,111,111	0
58	MG	1H	3384	1/1	0.98	0.12	87,87,87,87	0
58	MG	1H	3396	1/1	0.98	0.03	99,99,99,99	0
58	MG	14	3405	1/1	0.98	0.05	89,89,89,89	0
58	MG	1H	3454	1/1	0.98	0.11	96,96,96,96	0
58	MG	1H	3457	1/1	0.98	0.09	89,89,89,89	0
58	MG	14	3409	1/1	0.98	0.14	85,85,85,85	0
58	MG	14	3411	1/1	0.98	0.03	134,134,134,134	0
58	MG	13	1727	1/1	0.98	0.07	87,87,87,87	0
58	MG	1H	3461	1/1	0.98	0.09	97,97,97,97	0
58	MG	13	1731	1/1	0.98	0.03	108,108,108,108	0
58	MG	13	1734	1/1	0.98	0.05	131,131,131,131	0
58	MG	1H	3407	1/1	0.98	0.04	83,83,83,83	0
58	MG	1H	3467	1/1	0.98	0.03	115,115,115,115	0
58	MG	1H	3468	1/1	0.98	0.09	122,122,122,122	0
58	MG	P8	101	1/1	0.98	0.06	101,101,101,101	0
58	MG	13	1664	1/1	0.98	0.06	105,105,105,105	0
58	MG	1H	3471	1/1	0.98	0.05	128,128,128,128	0
58	MG	13	1737	1/1	0.98	0.08	116,116,116,116	0
58	MG	1H	3475	1/1	0.98	0.11	89,89,89,89	0
58	MG	1H	3417	1/1	0.98	0.04	77,77,77,77	0
58	MG	1H	3480	1/1	0.98	0.08	114,114,114,114	0
58	MG	1H	3418	1/1	0.98	0.06	86,86,86,86	0
58	MG	1H	3482	1/1	0.98	0.05	119,119,119,119	0
58	MG	1H	3420	1/1	0.98	0.03	81,81,81,81	0
58	MG	13	1656	1/1	0.98	0.05	105,105,105,105	0
58	MG	13	1717	1/1	0.98	0.07	123,123,123,123	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3431	1/1	0.98	0.03	111,111,111,111	0
58	MG	14	3073	1/1	0.98	0.05	67,67,67,67	0
58	MG	14	3037	1/1	0.98	0.05	80,80,80,80	0
58	MG	13	1632	1/1	0.98	0.06	83,83,83,83	0
58	MG	1H	3434	1/1	0.98	0.07	82,82,82,82	0
60	ZN	5A	101	1/1	0.98	0.04	164,164,164,164	0
58	MG	13	1725	1/1	0.98	0.05	101,101,101,101	0
58	MG	1H	3430	1/1	0.99	0.05	81,81,81,81	0
58	MG	13	1718	1/1	0.99	0.06	110,110,110,110	0
58	MG	1H	3432	1/1	0.99	0.02	111,111,111,111	0
58	MG	13	1719	1/1	0.99	0.04	94,94,94,94	0
58	MG	13	1720	1/1	0.99	0.03	126,126,126,126	0
58	MG	1H	3435	1/1	0.99	0.07	85,85,85,85	0
58	MG	1H	3436	1/1	0.99	0.05	96,96,96,96	0
58	MG	1H	3358	1/1	0.99	0.02	70,70,70,70	0
58	MG	1H	3360	1/1	0.99	0.03	86,86,86,86	0
58	MG	1H	3439	1/1	0.99	0.03	72,72,72,72	0
58	MG	1H	3441	1/1	0.99	0.05	92,92,92,92	0
58	MG	1H	3362	1/1	0.99	0.04	71,71,71,71	0
58	MG	1H	3363	1/1	0.99	0.04	81,81,81,81	0
58	MG	1H	3364	1/1	0.99	0.08	74,74,74,74	0
58	MG	1H	3446	1/1	0.99	0.06	94,94,94,94	0
58	MG	13	1721	1/1	0.99	0.03	100,100,100,100	0
58	MG	1H	3366	1/1	0.99	0.03	73,73,73,73	0
58	MG	13	1722	1/1	0.99	0.03	99,99,99,99	0
58	MG	1H	3370	1/1	0.99	0.04	68,68,68,68	0
58	MG	1H	3371	1/1	0.99	0.03	77,77,77,77	0
58	MG	1H	3372	1/1	0.99	0.10	73,73,73,73	0
58	MG	1H	3453	1/1	0.99	0.05	93,93,93,93	0
58	MG	1H	3374	1/1	0.99	0.03	77,77,77,77	0
58	MG	1H	3455	1/1	0.99	0.05	87,87,87,87	0
58	MG	13	1711	1/1	0.99	0.08	85,85,85,85	0
58	MG	1H	3458	1/1	0.99	0.03	88,88,88,88	0
58	MG	1H	3376	1/1	0.99	0.02	106,106,106,106	0
58	MG	1H	3377	1/1	0.99	0.02	119,119,119,119	0
58	MG	1H	3378	1/1	0.99	0.04	90,90,90,90	0
58	MG	14	3344	1/1	0.99	0.09	91,91,91,91	0
58	MG	14	3345	1/1	0.99	0.04	80,80,80,80	0
58	MG	14	3346	1/1	0.99	0.04	81,81,81,81	0
58	MG	14	3347	1/1	0.99	0.04	87,87,87,87	0
58	MG	14	3348	1/1	0.99	0.03	86,86,86,86	0
58	MG	1H	3379	1/1	0.99	0.05	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	14	3351	1/1	0.99	0.05	80,80,80,80	0
58	MG	14	3352	1/1	0.99	0.07	84,84,84,84	0
58	MG	14	3353	1/1	0.99	0.02	73,73,73,73	0
58	MG	1H	3464	1/1	0.99	0.07	95,95,95,95	0
58	MG	14	3355	1/1	0.99	0.03	92,92,92,92	0
58	MG	14	3356	1/1	0.99	0.03	85,85,85,85	0
58	MG	13	1724	1/1	0.99	0.04	99,99,99,99	0
58	MG	14	3359	1/1	0.99	0.02	94,94,94,94	0
58	MG	14	3360	1/1	0.99	0.04	78,78,78,78	0
58	MG	14	3361	1/1	0.99	0.02	79,79,79,79	0
58	MG	14	3362	1/1	0.99	0.03	86,86,86,86	0
58	MG	14	3363	1/1	0.99	0.10	80,80,80,80	0
58	MG	1H	3466	1/1	0.99	0.05	94,94,94,94	0
58	MG	14	3365	1/1	0.99	0.03	96,96,96,96	0
58	MG	1H	3381	1/1	0.99	0.06	80,80,80,80	0
58	MG	1H	3383	1/1	0.99	0.02	75,75,75,75	0
58	MG	1H	3469	1/1	0.99	0.13	124,124,124,124	0
58	MG	14	3370	1/1	0.99	0.03	94,94,94,94	0
58	MG	14	3371	1/1	0.99	0.04	95,95,95,95	0
58	MG	13	1712	1/1	0.99	0.03	98,98,98,98	0
58	MG	14	3373	1/1	0.99	0.02	86,86,86,86	0
58	MG	1H	3385	1/1	0.99	0.02	91,91,91,91	0
58	MG	1H	3386	1/1	0.99	0.03	109,109,109,109	0
58	MG	1H	3473	1/1	0.99	0.02	89,89,89,89	0
58	MG	14	3377	1/1	0.99	0.02	106,106,106,106	0
58	MG	14	3378	1/1	0.99	0.04	83,83,83,83	0
58	MG	14	3379	1/1	0.99	0.07	110,110,110,110	0
58	MG	14	3380	1/1	0.99	0.04	94,94,94,94	0
58	MG	1H	3474	1/1	0.99	0.03	110,110,110,110	0
58	MG	1H	3387	1/1	0.99	0.03	60,60,60,60	0
58	MG	14	3383	1/1	0.99	0.11	137,137,137,137	0
58	MG	14	3384	1/1	0.99	0.05	96,96,96,96	0
58	MG	14	3385	1/1	0.99	0.04	92,92,92,92	0
58	MG	1H	3476	1/1	0.99	0.04	122,122,122,122	0
58	MG	14	3387	1/1	0.99	0.03	88,88,88,88	0
58	MG	1H	3477	1/1	0.99	0.04	114,114,114,114	0
58	MG	14	3389	1/1	0.99	0.06	92,92,92,92	0
58	MG	14	3390	1/1	0.99	0.07	114,114,114,114	0
58	MG	14	3391	1/1	0.99	0.04	87,87,87,87	0
58	MG	14	3392	1/1	0.99	0.08	89,89,89,89	0
58	MG	14	3394	1/1	0.99	0.07	88,88,88,88	0
58	MG	14	3395	1/1	0.99	0.04	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3478	1/1	0.99	0.02	95,95,95,95	0
58	MG	14	3397	1/1	0.99	0.06	103,103,103,103	0
58	MG	1H	3388	1/1	0.99	0.03	78,78,78,78	0
58	MG	14	3399	1/1	0.99	0.08	116,116,116,116	0
58	MG	14	3400	1/1	0.99	0.03	113,113,113,113	0
58	MG	1H	3390	1/1	0.99	0.03	74,74,74,74	0
58	MG	14	3402	1/1	0.99	0.03	83,83,83,83	0
58	MG	14	3403	1/1	0.99	0.08	114,114,114,114	0
58	MG	1H	3391	1/1	0.99	0.05	79,79,79,79	0
58	MG	1H	3392	1/1	0.99	0.04	81,81,81,81	0
58	MG	1H	3394	1/1	0.99	0.03	89,89,89,89	0
58	MG	1H	3395	1/1	0.99	0.07	103,103,103,103	0
58	MG	14	3408	1/1	0.99	0.02	130,130,130,130	0
58	MG	13	1713	1/1	0.99	0.08	117,117,117,117	0
58	MG	14	3410	1/1	0.99	0.03	91,91,91,91	0
58	MG	1H	3397	1/1	0.99	0.04	82,82,82,82	0
58	MG	14	3412	1/1	0.99	0.12	128,128,128,128	0
58	MG	14	3413	1/1	0.99	0.03	92,92,92,92	0
58	MG	1H	3398	1/1	0.99	0.08	76,76,76,76	0
58	MG	13	1714	1/1	0.99	0.03	98,98,98,98	0
58	MG	14	3416	1/1	0.99	0.04	124,124,124,124	0
58	MG	1H	3400	1/1	0.99	0.05	86,86,86,86	0
58	MG	14	3418	1/1	0.99	0.02	88,88,88,88	0
58	MG	14	3419	1/1	0.99	0.03	90,90,90,90	0
58	MG	13	1728	1/1	0.99	0.02	105,105,105,105	0
58	MG	1H	3402	1/1	0.99	0.03	76,76,76,76	0
58	MG	13	1729	1/1	0.99	0.03	96,96,96,96	0
58	MG	1H	3406	1/1	0.99	0.07	82,82,82,82	0
58	MG	13	1730	1/1	0.99	0.08	108,108,108,108	0
58	MG	1H	3410	1/1	0.99	0.03	97,97,97,97	0
58	MG	13	1715	1/1	0.99	0.05	113,113,113,113	0
58	MG	13	1732	1/1	0.99	0.11	127,127,127,127	0
58	MG	16	210	1/1	0.99	0.03	87,87,87,87	0
58	MG	16	211	1/1	0.99	0.02	92,92,92,92	0
58	MG	1H	3416	1/1	0.99	0.04	83,83,83,83	0
58	MG	1H	3308	1/1	0.99	0.07	81,81,81,81	0
58	MG	13	1733	1/1	0.99	0.06	102,102,102,102	0
58	MG	13	1716	1/1	0.99	0.05	108,108,108,108	0
58	MG	1H	3421	1/1	0.99	0.03	129,129,129,129	0
58	MG	1G	1671	1/1	0.99	0.07	121,121,121,121	0
58	MG	1H	3422	1/1	0.99	0.06	102,102,102,102	0
58	MG	13	1735	1/1	0.99	0.13	146,146,146,146	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
58	MG	1H	3424	1/1	0.99	0.02	81,81,81,81	0
58	MG	13	1613	1/1	0.99	0.02	109,109,109,109	0
59	SF4	3E	301	8/8	0.99	0.03	95,111,117,118	0
59	SF4	32	302	8/8	0.99	0.02	127,146,153,155	0
58	MG	1H	3427	1/1	0.99	0.02	106,106,106,106	0
58	MG	1H	3428	1/1	0.99	0.09	89,89,89,89	0
58	MG	1H	3429	1/1	0.99	0.03	82,82,82,82	0
58	MG	1H	3382	1/1	1.00	0.09	71,71,71,71	0
58	MG	14	3357	1/1	1.00	0.03	76,76,76,76	0
58	MG	1H	3460	1/1	1.00	0.06	86,86,86,86	0
58	MG	1H	3419	1/1	1.00	0.04	76,76,76,76	0
58	MG	1H	3368	1/1	1.00	0.04	76,76,76,76	0
58	MG	1H	3440	1/1	1.00	0.04	70,70,70,70	0
58	MG	1H	3393	1/1	1.00	0.01	95,95,95,95	0
58	MG	1H	3404	1/1	1.00	0.02	84,84,84,84	0
58	MG	14	3393	1/1	1.00	0.03	89,89,89,89	0
58	MG	1H	3405	1/1	1.00	0.03	75,75,75,75	0
58	MG	1H	3444	1/1	1.00	0.04	85,85,85,85	0
58	MG	1H	3359	1/1	1.00	0.02	71,71,71,71	0
58	MG	14	3367	1/1	1.00	0.02	86,86,86,86	0
58	MG	1G	1672	1/1	1.00	0.02	115,115,115,115	0
58	MG	1H	3425	1/1	1.00	0.02	77,77,77,77	0
58	MG	1H	3357	1/1	1.00	0.02	79,79,79,79	0
58	MG	1H	3408	1/1	1.00	0.05	72,72,72,72	0
58	MG	14	3343	1/1	1.00	0.06	87,87,87,87	0
58	MG	1H	3409	1/1	1.00	0.04	85,85,85,85	0
58	MG	1H	3361	1/1	1.00	0.01	72,72,72,72	0
58	MG	1H	3356	1/1	1.00	0.02	67,67,67,67	0
58	MG	1H	3373	1/1	1.00	0.02	86,86,86,86	0
58	MG	1H	3413	1/1	1.00	0.01	90,90,90,90	0
58	MG	1H	3414	1/1	1.00	0.06	79,79,79,79	0
58	MG	14	3350	1/1	1.00	0.01	116,116,116,116	0
58	MG	1H	3415	1/1	1.00	0.02	90,90,90,90	0
58	MG	1H	3456	1/1	1.00	0.02	68,68,68,68	0
60	ZN	5I	102	1/1	1.00	0.02	114,114,114,114	0
58	MG	1H	3389	1/1	1.00	0.02	71,71,71,71	0
58	MG	14	3002	1/1	1.00	0.01	65,65,65,65	0
58	MG	1H	3367	1/1	1.00	0.04	84,84,84,84	0

6.5 Other polymers ⓘ

There are no such residues in this entry.