Full wwPDB X-ray Structure Validation Report ⓘ

Mar 24, 2026 – 11:41 PM UTC

PDB ID	:	6GSL / pdb_00006gsl
Title	:	Structure of T. thermophilus 70S ribosome complex with mRNA, tRNAfMet and cognate tRNAArg in the A-site
Authors	:	Rozov, A.; Yusupov, M.; Yusupova, G.
Deposited on	:	2018-06-14
Resolution	:	3.16 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:

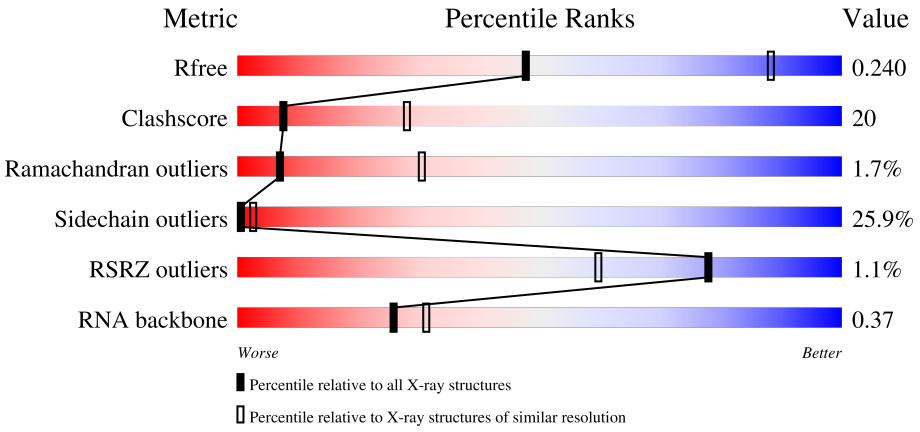
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (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 3.16 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 <=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	35% 47% 17% ·
1	1G	1522	36% 48% 16% ·
2	12	256	29% 46% 16% · 7%
2	1E	256	27% 46% 16% · 10%

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Mol	Chain	Length	Quality of chain
3	22	239	40% 32% 10% 18%
3	2E	239	46% 34% 6% 14%
4	32	209	40% 49% 11%
4	3E	209	50% 41% 9%
5	42	162	38% 42% 13% 7%
5	4E	162	48% 34% 10% 8%
6	52	101	55% 35% 10%
6	5E	101	56% 37% 7%
7	62	156	38% 41% 9% 12%
7	6E	156	5% 49% 42% 8%
8	72	138	50% 41% 9%
8	7E	138	37% 50% 13%
9	82	128	37% 52% 8%
9	8E	128	41% 45% 11%
10	1A	105	27% 50% 18% 6%
10	1I	105	38% 37% 18% 6%
11	2A	129	43% 34% 11% 12%
11	2I	129	36% 41% 9% 14%
12	3A	132	8% 45% 33% 12% 8%
12	3I	132	5% 38% 42% 13% 8%
13	4A	126	4% 30% 40% 17% 12%
13	4I	126	41% 40% 13% 6%
14	5A	61	5% 34% 48% 8% 7%
14	5I	61	38% 48% 15%
15	6A	89	46% 47%

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Mol	Chain	Length	Quality of chain
15	6I	89	43% 51%
16	7A	88	49% 40% 7% 5%
16	7I	88	38% 45% 11% 6%
17	8A	105	45% 43% 7% 6%
17	8I	105	31% 57% 7% 5%
18	9A	88	42% 26% 8% 24%
18	9I	88	27% 36% 11% 24%
19	AA	93	6% 28% 25% 14% 33%
19	AI	93	37% 35% 12% 14%
20	BA	106	38% 38% 13% 8%
20	BI	106	31% 44% 16% 8%
21	1B	27	33% 48% 7% 11%
21	1F	27	41% 41% 7% 11%
22	1K	77	3% 22% 43% 25% 6%
22	1L	77	29% 34% 31%
23	2K	77	43% 36% 19%
23	2L	77	35% 48% 14%
24	3K	77	6% 26% 29% 40% 5%
24	3L	77	18% 40% 36%
25	4K	27	15% 15% 30% 33% 22%
25	4L	27	4% 26% 15% 22% 37%
26	14	2917	39% 45% 15%
26	1H	2917	39% 44% 15%
27	16	122	41% 42% 17%
27	1J	122	34% 48% 18%

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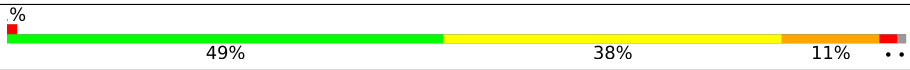
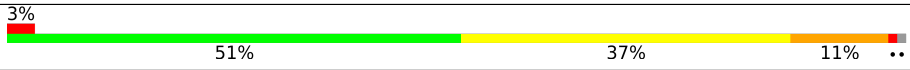
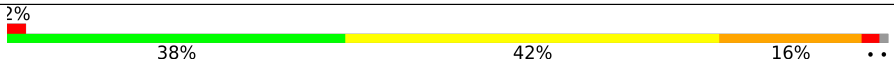
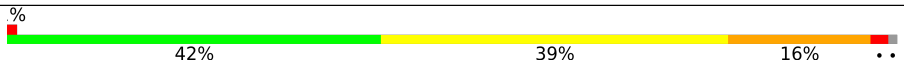
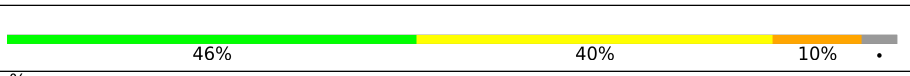
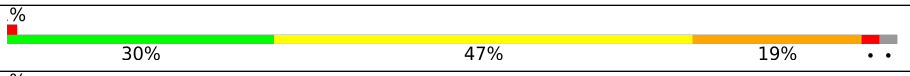
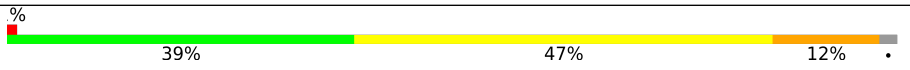
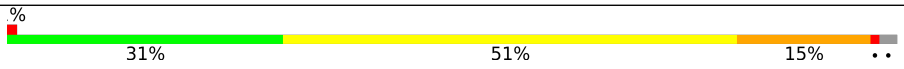
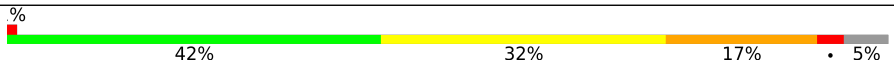
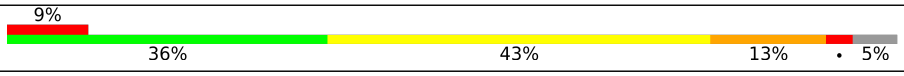
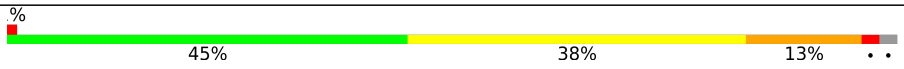
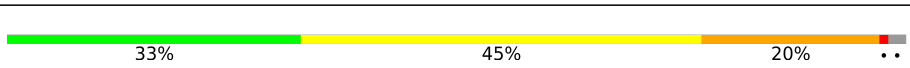
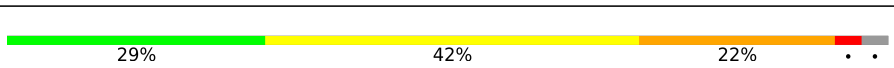
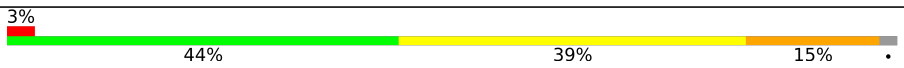
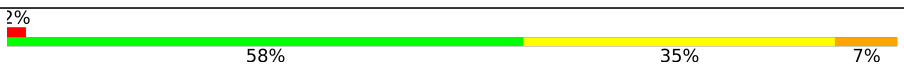
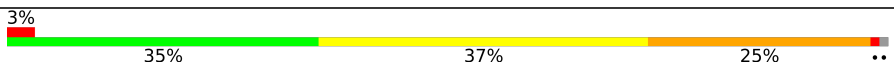
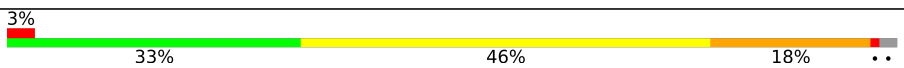
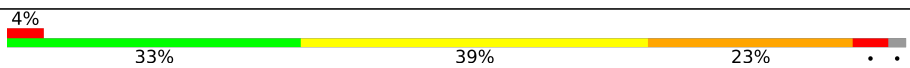
Mol	Chain	Length	Quality of chain
28	71	229	
28	79	229	
29	11	276	
29	19	276	
30	21	206	
30	29	206	
31	31	210	
31	39	210	
32	41	182	
32	49	182	
33	51	180	
33	59	180	
34	18	125	
34	28	125	
35	61	148	
35	69	148	
36	38	173	
37	48	147	
38	15	140	
38	58	140	
39	25	122	
39	68	122	
40	35	150	
40	78	150	
41	45	141	

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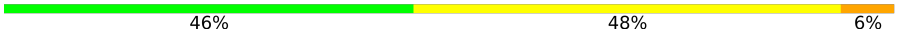
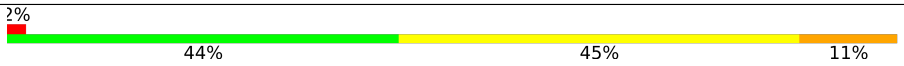
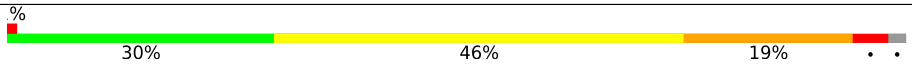
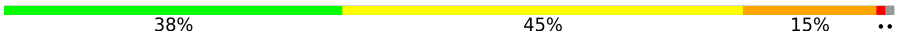
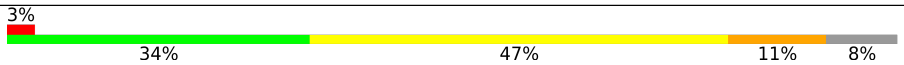
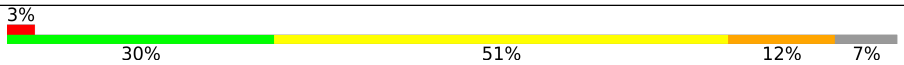
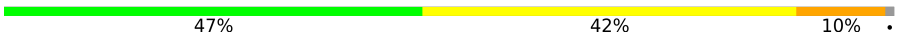
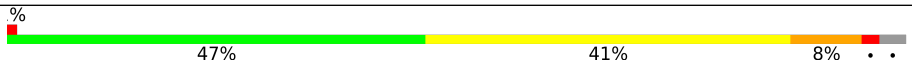
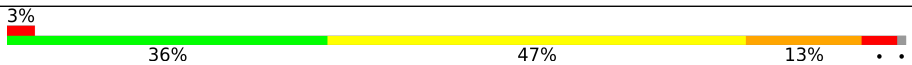
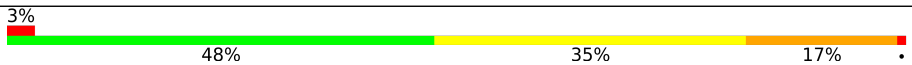
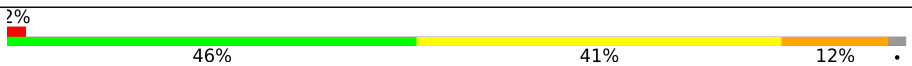
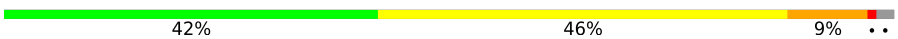
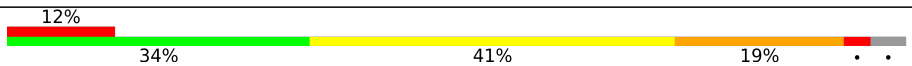
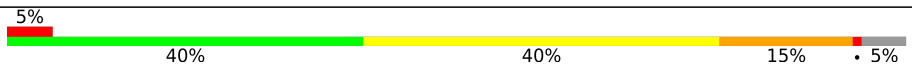
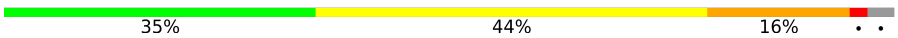
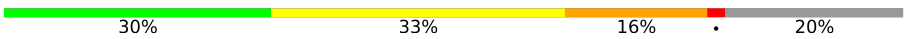
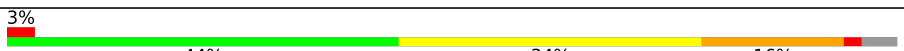
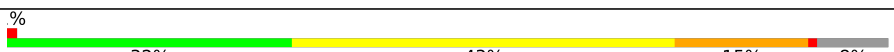
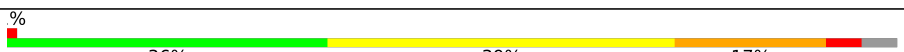
Mol	Chain	Length	Quality of chain
41	88	141	
42	55	118	
42	98	118	
43	65	112	
43	A8	112	
44	75	146	
44	B8	146	
45	85	118	
45	C8	118	
46	95	101	
46	D8	101	
47	A5	113	
47	E8	113	
48	B5	96	
48	F8	96	
49	C5	110	
49	G8	110	
50	D5	206	
50	H8	206	
51	E5	85	
51	I8	85	
52	F5	98	
52	J8	98	
53	G5	72	
53	K8	72	

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Mol	Chain	Length	Quality of chain
54	H5	60	62% 30% 5%
54	L8	60	48% 35% 13%
55	M8	71	20% 28% 17% 32%
56	J5	60	48% 37% 8% 7%
56	N8	60	3% 40% 30% 13% 17%
57	O8	54	2% 13% 57% 11% 17%
58	L5	49	2% 49% 39% 8%
58	P8	49	2% 47% 39% 10%
59	M5	65	3% 38% 45% 14%
59	Q8	65	49% 32% 14%

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
60	MG	13	1644	-	-	-	X
60	MG	1H	3219	-	-	-	X
60	MG	1H	3269	-	-	-	X
61	SF4	32	303	-	-	X	-
61	SF4	3E	303	-	-	X	-

2 Entry composition

There are 63 unique types of molecules in this entry. The entry contains 306138 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	1512	Total	C	N	O	P	0	0	0
			32497	14464	6017	10504	1512			
1	1G	1509	Total	C	N	O	P	0	0	0
			32437	14437	6010	10481	1509			

- 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	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			

- 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	195	Total	C	N	O	S	0	0	0
			1533	969	297	266	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
			1690	1058	336	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	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	5E	101	Total	C	N	O	S	0	0	0
			842	531	155	153	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	154	Total	C	N	O	S	0	0	0
			1242	770	250	216	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	138	Total	C	N	O	S	0	0	0
			1115	705	215	192	3			

- 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	124	Total	C	N	O	0	0	0
			983	624	190	169			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1A	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	2I	111	Total	C	N	O	S	0	0	0
			823	512	154	154	3			
11	2A	113	Total	C	N	O	S	0	0	0
			835	520	156	156	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	3I	122	Total	C	N	O	S	0	0	0
			956	603	193	159	1			
12	3A	121	Total	C	N	O	S	0	0	0
			947	597	191	158	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	4I	119	Total	C	N	O	S	0	0	0
			936	579	191	164	2			
13	4A	111	Total	C	N	O	S	0	0	0
			887	549	180	156	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	5I	61	Total	C	N	O	S	0	0	0
			499	317	105	72	5			
14	5A	57	Total	C	N	O	S	0	0	0
			466	297	97	68	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	6I	87	Total	C	N	O	S	0	0	0
			729	457	146	124	2			
15	6A	87	Total	C	N	O	S	0	0	0
			729	457	146	124	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	83	Total	C	N	O	S	0	0	0
			700	443	139	117	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	80	Total	C	N	O	S	0	0	0
			643	411	118	112	2			
19	AA	62	Total	C	N	O	S	0	0	0
			481	306	85	88	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	BI	98	Total	C	N	O	S	0	0	0
			751	464	158	127	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	24	Total	C	N	O	0	0	0
			208	128	50	30			
21	1B	24	Total	C	N	O	0	0	0
			208	128	50	30			

- Molecule 22 is a RNA chain called tRNAArg.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
22	1K	72	Total	C	N	O	P	S	0	0	0
			1544	690	282	498	72	2			
22	1L	74	Total	C	N	O	P	S	0	0	0
			1584	708	287	513	74	2			

- Molecule 23 is a RNA chain called tRNAfMet.

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 tRNAArg.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	3K	73	Total	C	N	O	P	0	0	0
			1561	696	285	507	73			
24	3L	74	Total	C	N	O	P	0	0	0
			1581	705	287	515	74			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
3K	6	U	C	conflict	GB 1387059712
3L	6	U	C	conflict	GB 1387059712

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	4K	21	Total	C	N	O	P	0	0	0
			462	207	97	137	21			
25	4L	17	Total	C	N	O	P	0	0	0
			374	167	77	113	17			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	1H	2895	Total	C	N	O	P	0	0	0
			62351	27751	11658	20047	2895			
26	14	2895	Total	C	N	O	P	0	0	0
			62347	27751	11660	20042	2894			

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	134	Total	C	N	O	S	0	0	0
			1043	659	196	187	1			
28	79	130	Total	C	N	O	S	0	0	0
			1010	637	188	184	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			
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	206	Total	C	N	O	S	0	0	0
			1610	1026	301	281	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	171	Total	C	N	O	S	0	0	0
			1312	832	246	233	1			

- Molecule 34 is a protein called 50S ribosomal protein L7/L12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	18	30	Total	C	N	O	S	0	0	0
			237	150	38	48	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	28	30	Total	C	N	O	S	0	0	0
			237	150	38	48	1			

- Molecule 35 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	61	145	Total	C	N	O	S	0	0	0
			1131	723	200	207	1			
35	69	145	Total	C	N	O	S	0	0	0
			1131	723	200	207	1			

- Molecule 36 is a protein called 50S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	38	143	Total	C	N	O	S	0	0	0
			1089	694	191	202	2			

- Molecule 37 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	48	142	Total	C	N	O	S	0	0	0
			1047	665	184	193	5			

- Molecule 38 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	58	137	Total	C	N	O	S	0	0	0
			1096	706	205	181	4			
38	15	137	Total	C	N	O	S	0	0	0
			1096	707	205	181	3			

- Molecule 39 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	68	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			
39	25	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			

- Molecule 40 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	78	147	Total	C	N	O	S	0	0	0
			1122	698	229	192	3			
40	35	148	Total	C	N	O	S	0	0	0
			1130	704	230	193	3			

- Molecule 41 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	88	141	Total	C	N	O	S	0	0	0
			1113	709	210	187	7			
41	45	138	Total	C	N	O	S	0	0	0
			1099	702	208	183	6			

- Molecule 42 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	98	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			
42	55	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			

- Molecule 43 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	A8	111	Total	C	N	O	0	0	0
			881	556	176	149			
43	65	110	Total	C	N	O	0	0	0
			876	553	175	148			

- Molecule 44 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	B8	136	Total	C	N	O	S	0	0	0
			1132	704	232	195	1			
44	75	134	Total	C	N	O		0	0	0
			1115	694	229	192				

- Molecule 45 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	C8	115	Total	C	N	O	S	0	0	0
			950	603	199	147	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	85	117	Total	C	N	O	S	0	0	0
			963	610	202	150	1			

- Molecule 46 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	D8	101	Total	C	N	O	S	0	0	0
			778	501	142	134	1			
46	95	100	Total	C	N	O	S	0	0	0
			774	499	141	133	1			

- Molecule 47 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	E8	112	Total	C	N	O	S	0	0	0
			890	560	175	153	2			
47	A5	111	Total	C	N	O	S	0	0	0
			886	558	174	152	2			

- Molecule 48 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	F8	95	Total	C	N	O	S	0	0	0
			743	482	134	126	1			
48	B5	94	Total	C	N	O	S	0	0	0
			738	479	133	125	1			

- Molecule 49 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	G8	105	Total	C	N	O	S	0	0	0
			784	504	147	128	5			
49	C5	106	Total	C	N	O	S	0	0	0
			785	504	147	129	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	H8	165	Total	C	N	O	S	0	0	0
			1330	851	241	236	2			
50	D5	200	Total	C	N	O	S	0	0	0
			1582	1008	279	292	3			

- Molecule 51 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	I8	81	Total	C	N	O	S	0	0	0
			630	389	133	107	1			
51	E5	78	Total	C	N	O	S	0	0	0
			616	381	130	104	1			

- Molecule 52 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	J8	93	Total	C	N	O	S	0	0	0
			729	457	145	126	1			
52	F5	94	Total	C	N	O	S	0	0	0
			737	463	146	127	1			

- Molecule 53 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	K8	69	Total	C	N	O	S	0	0	0
			576	358	116	101	1			
53	G5	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			

- Molecule 54 is a protein called 50S ribosomal protein L30.

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

- Molecule 55 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	M8	48	Total	C	N	O	S	0	0	0
			371	237	62	67	5			

- Molecule 56 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	N8	50	Total	C	N	O	S	0	0	0
			386	241	77	63	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	J5	56	Total	C	N	O	S	0	0	0
			434	272	87	70	5			

- Molecule 57 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	O8	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			

- Molecule 58 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	P8	47	Total	C	N	O	S	0	0	0
			401	246	99	54	2			
58	L5	47	Total	C	N	O	S	0	0	0
			409	251	102	54	2			

- Molecule 59 is a protein called 50S ribosomal protein L35.

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

- Molecule 60 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	13	227	Total	Mg	0	0
			227	227		
60	3E	2	Total	Mg	0	0
			2	2		
60	5E	2	Total	Mg	0	0
			2	2		
60	6I	1	Total	Mg	0	0
			1	1		
60	1K	2	Total	Mg	0	0
			2	2		
60	2K	7	Total	Mg	0	0
			7	7		
60	4K	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1H	669	Total Mg 669 669	0	0
60	16	20	Total Mg 20 20	0	0
60	11	6	Total Mg 6 6	0	0
60	21	2	Total Mg 2 2	0	0
60	31	2	Total Mg 2 2	0	0
60	41	1	Total Mg 1 1	0	0
60	78	1	Total Mg 1 1	0	0
60	88	4	Total Mg 4 4	0	0
60	98	2	Total Mg 2 2	0	0
60	I8	2	Total Mg 2 2	0	0
60	N8	1	Total Mg 1 1	0	0
60	P8	1	Total Mg 1 1	0	0
60	Q8	1	Total Mg 1 1	0	0
60	1G	167	Total Mg 167 167	0	0
60	32	2	Total Mg 2 2	0	0
60	52	1	Total Mg 1 1	0	0
60	2A	1	Total Mg 1 1	0	0
60	1L	1	Total Mg 1 1	0	0
60	2L	2	Total Mg 2 2	0	0
60	4L	2	Total Mg 2 2	0	0
60	14	607	Total Mg 607 607	0	0

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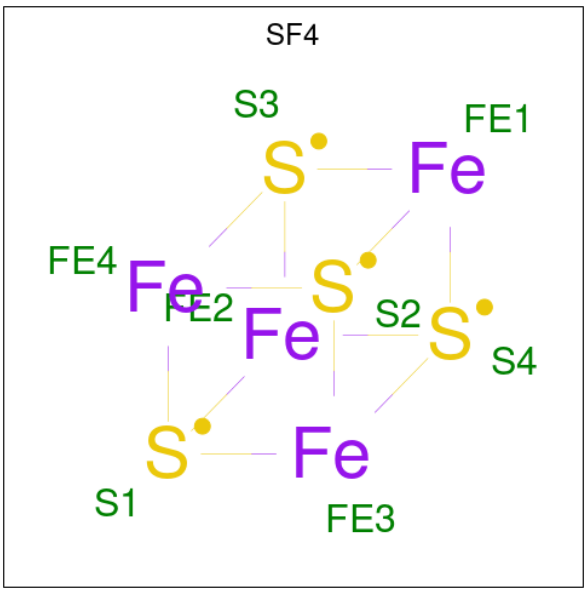
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1J	8	Total Mg 8 8	0	0
60	29	5	Total Mg 5 5	0	0
60	39	2	Total Mg 2 2	0	0
60	25	2	Total Mg 2 2	0	0
60	35	1	Total Mg 1 1	0	0
60	45	2	Total Mg 2 2	0	0
60	55	2	Total Mg 2 2	0	0
60	75	1	Total Mg 1 1	0	0
60	C5	1	Total Mg 1 1	0	0
60	E5	1	Total Mg 1 1	0	0
60	F5	1	Total Mg 1 1	0	0
60	M5	1	Total Mg 1 1	0	0

- Molecule 61 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	3E	1	Total Fe S 8 4 4	0	0
61	32	1	Total Fe S 8 4 4	0	0

- Molecule 62 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
62	5I	1	Total Zn 1 1	0	0
62	5A	1	Total Zn 1 1	0	0

- Molecule 63 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
63	13	544	Total O 544 544	0	0
63	1E	1	Total O 1 1	0	0
63	3E	1	Total O 1 1	0	0
63	4E	2	Total O 2 2	0	0
63	8E	1	Total O 1 1	0	0
63	1I	1	Total O 1 1	0	0
63	3I	5	Total O 5 5	0	0
63	5I	3	Total O 3 3	0	0
63	6I	4	Total O 4 4	0	0
63	BI	1	Total O 1 1	0	0
63	1F	1	Total O 1 1	0	0
63	1K	1	Total O 1 1	0	0
63	2K	16	Total O 16 16	0	0
63	4K	13	Total O 13 13	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
63	1H	1966	Total O 1966 1966	0	0
63	16	42	Total O 42 42	0	0
63	11	12	Total O 12 12	0	0
63	21	9	Total O 9 9	0	0
63	31	8	Total O 8 8	0	0
63	58	3	Total O 3 3	0	0
63	78	10	Total O 10 10	0	0
63	88	7	Total O 7 7	0	0
63	98	1	Total O 1 1	0	0
63	A8	2	Total O 2 2	0	0
63	B8	3	Total O 3 3	0	0
63	C8	7	Total O 7 7	0	0
63	D8	1	Total O 1 1	0	0
63	F8	1	Total O 1 1	0	0
63	G8	3	Total O 3 3	0	0
63	I8	5	Total O 5 5	0	0
63	J8	10	Total O 10 10	0	0
63	L8	4	Total O 4 4	0	0
63	P8	1	Total O 1 1	0	0
63	Q8	7	Total O 7 7	0	0
63	1G	397	Total O 397 397	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
63	32	5	Total O 5 5	0	0
63	42	1	Total O 1 1	0	0
63	52	4	Total O 4 4	0	0
63	3A	2	Total O 2 2	0	0
63	5A	1	Total O 1 1	0	0
63	6A	1	Total O 1 1	0	0
63	7A	2	Total O 2 2	0	0
63	9A	2	Total O 2 2	0	0
63	BA	2	Total O 2 2	0	0
63	2L	7	Total O 7 7	0	0
63	4L	8	Total O 8 8	0	0
63	14	1520	Total O 1520 1520	0	0
63	1J	23	Total O 23 23	0	0
63	19	12	Total O 12 12	0	0
63	29	9	Total O 9 9	0	0
63	39	8	Total O 8 8	0	0
63	15	1	Total O 1 1	0	0
63	25	13	Total O 13 13	0	0
63	35	5	Total O 5 5	0	0
63	45	4	Total O 4 4	0	0
63	85	4	Total O 4 4	0	0

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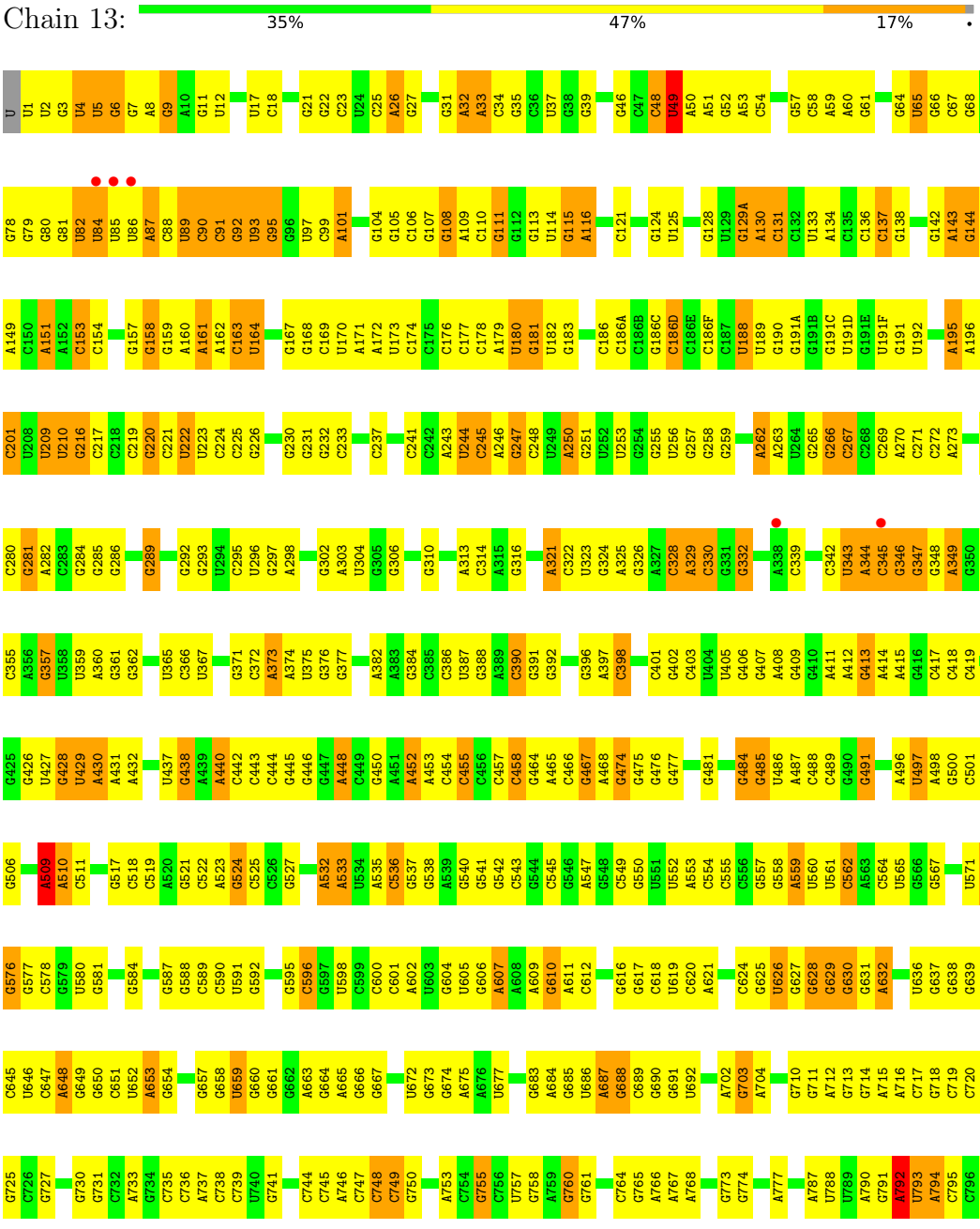
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
63	A5	1	Total O 1 1	0	0
63	B5	1	Total O 1 1	0	0
63	C5	1	Total O 1 1	0	0
63	E5	3	Total O 3 3	0	0
63	F5	6	Total O 6 6	0	0
63	L5	2	Total O 2 2	0	0
63	M5	9	Total O 9 9	0	0

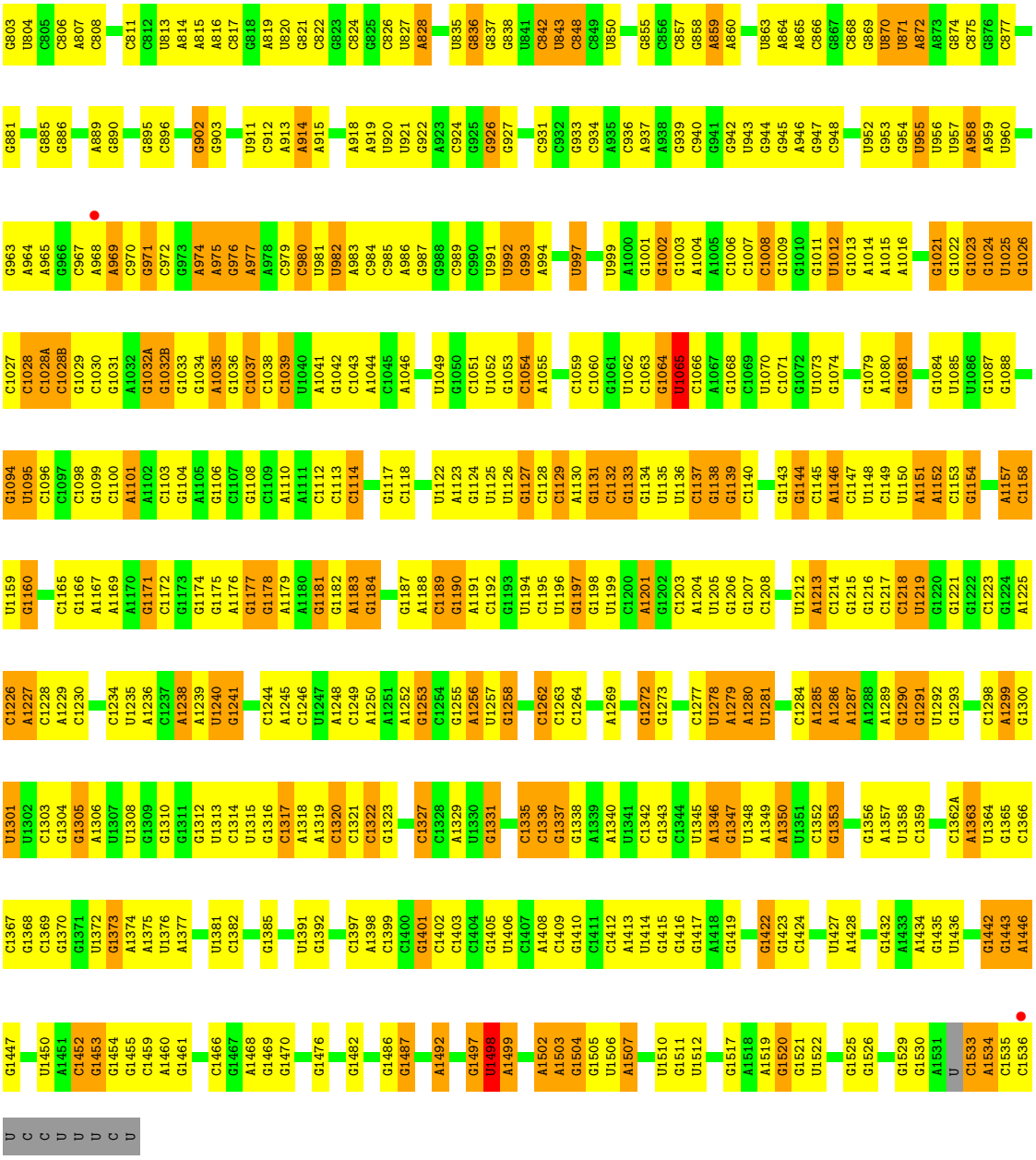
3 Residue-property plots (i)

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

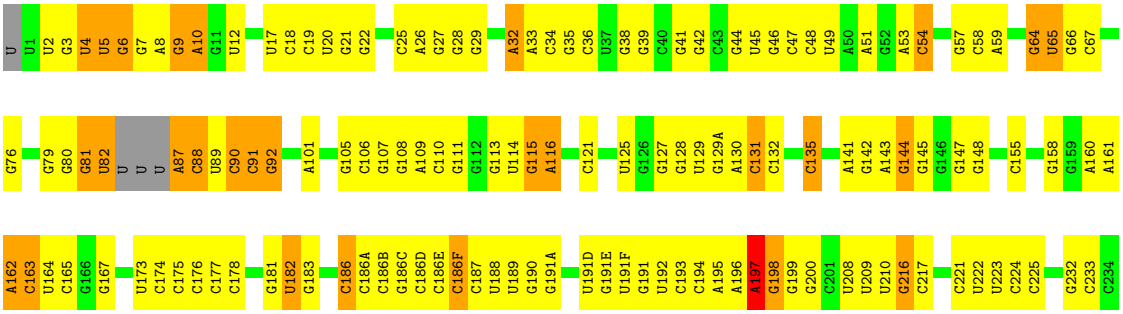
Chain 13:





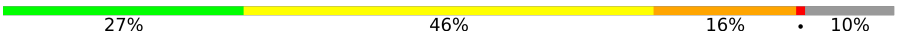
• Molecule 1: 16S ribosomal RNA

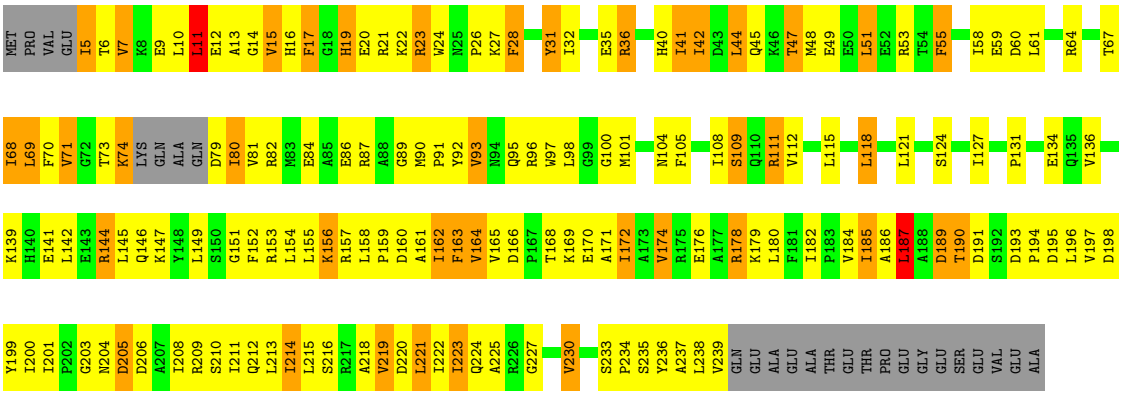
Chain 1G:



• Molecule 2: 30S ribosomal protein S2

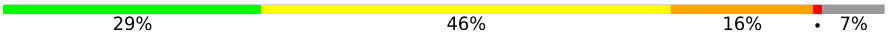
Chain 1E:

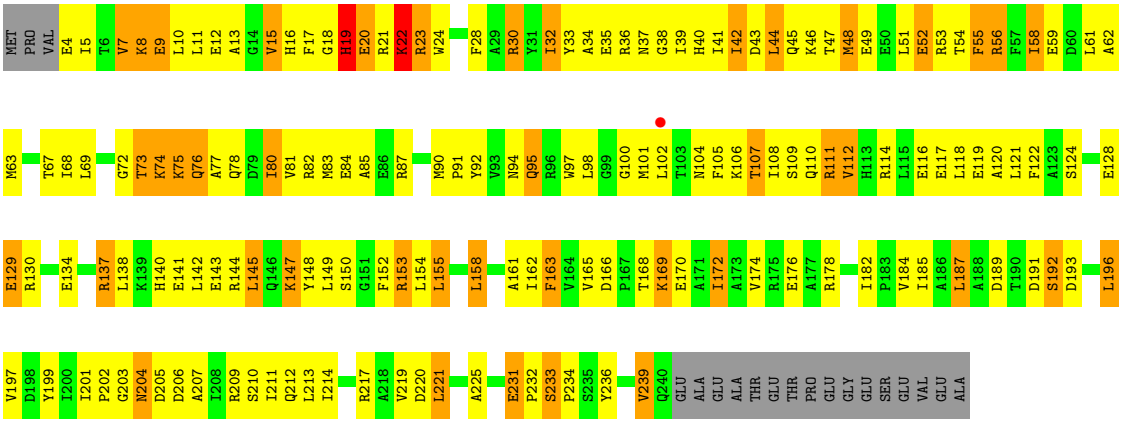




• Molecule 2: 30S ribosomal protein S2

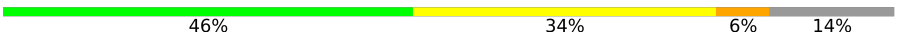
Chain 12:

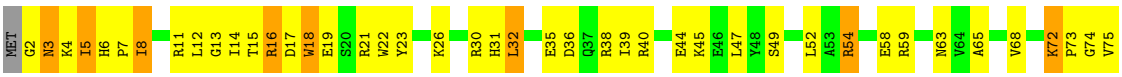


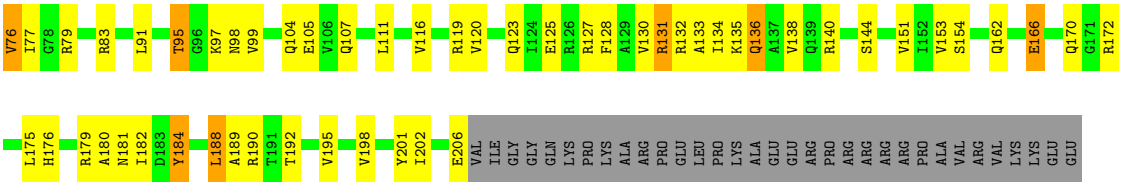


• Molecule 3: 30S ribosomal protein S3

Chain 2E:

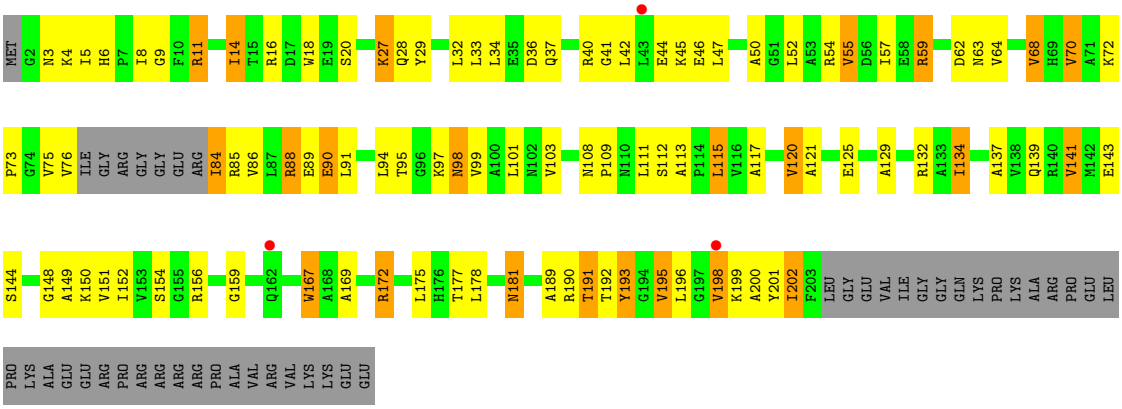






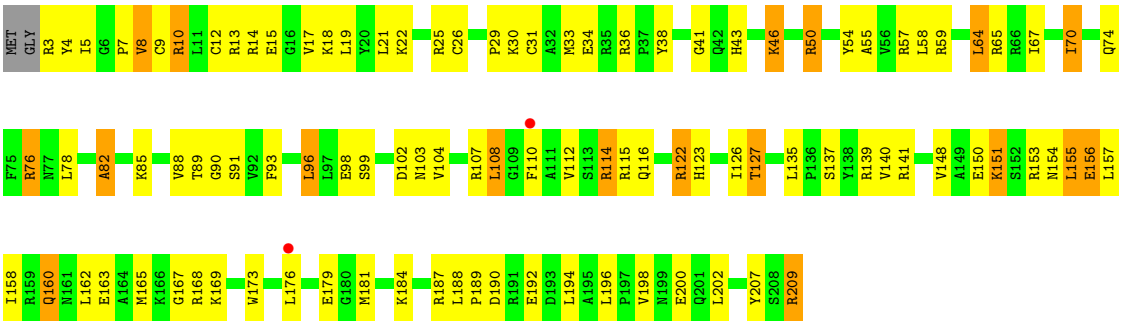
• Molecule 3: 30S ribosomal protein S3

Chain 22:



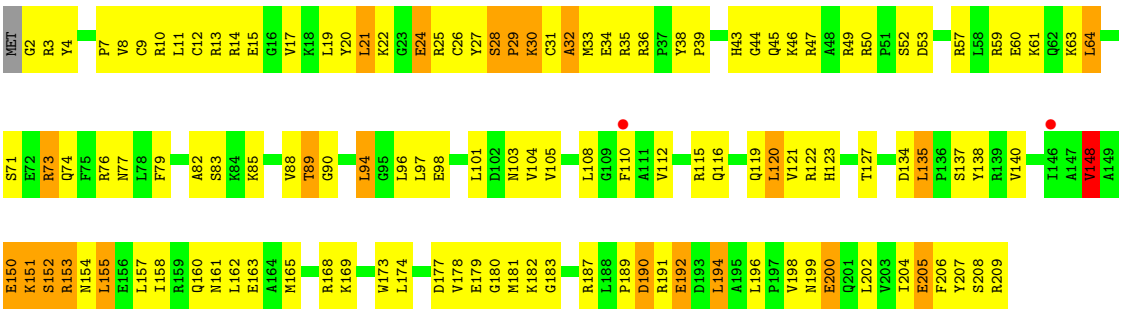
• Molecule 4: 30S ribosomal protein S4

Chain 3E:



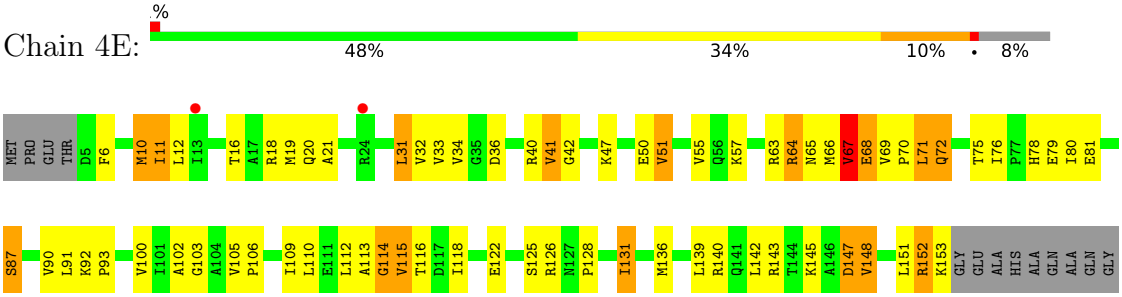
• Molecule 4: 30S ribosomal protein S4

Chain 32:



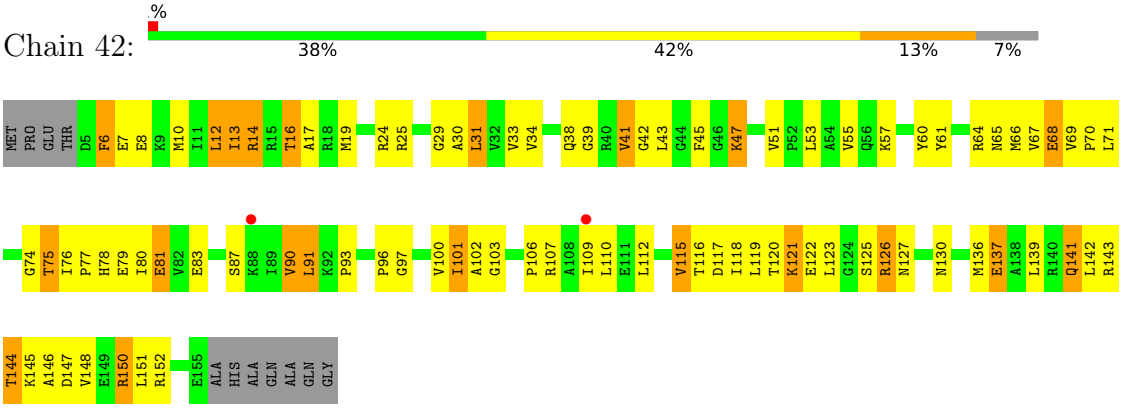
• Molecule 5: 30S ribosomal protein S5

Chain 4E:



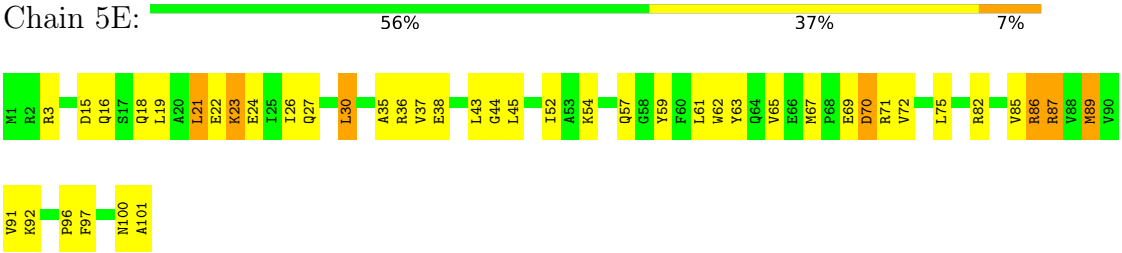
• Molecule 5: 30S ribosomal protein S5

Chain 42:



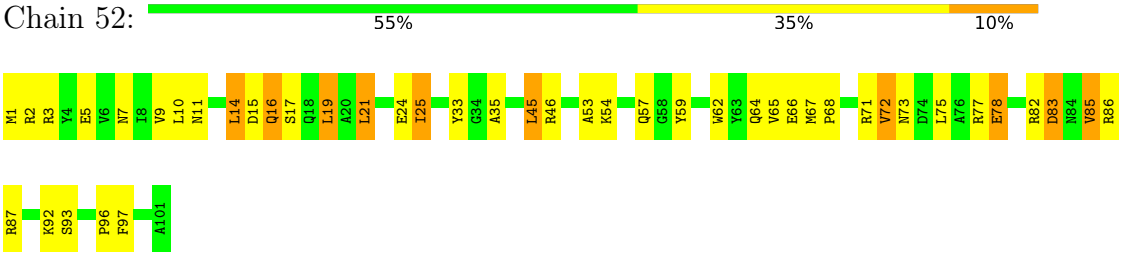
• Molecule 6: 30S ribosomal protein S6

Chain 5E:



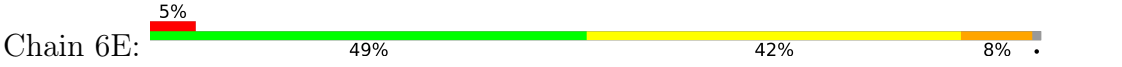
• Molecule 6: 30S ribosomal protein S6

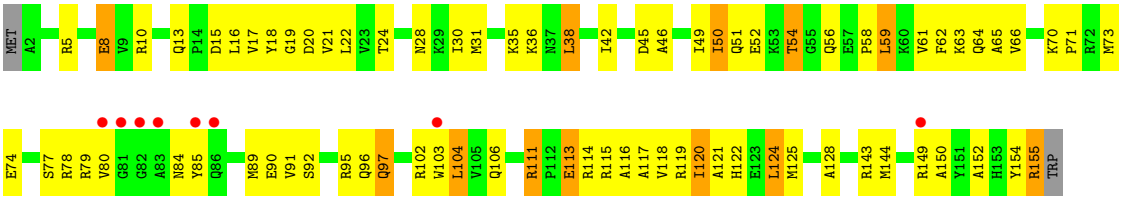
Chain 52:



• Molecule 7: 30S ribosomal protein S7

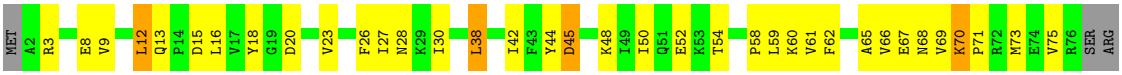
Chain 6E:

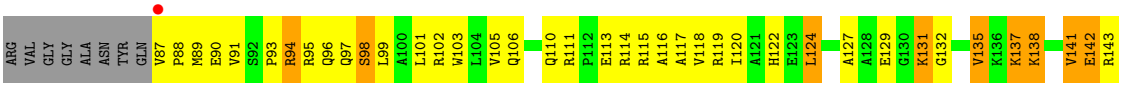


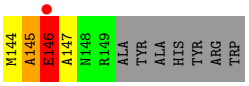


• Molecule 7: 30S ribosomal protein S7

Chain 62:

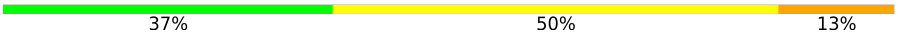


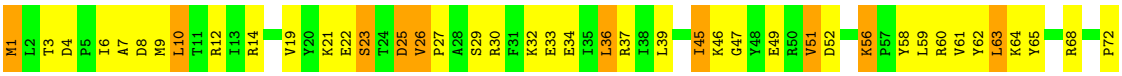


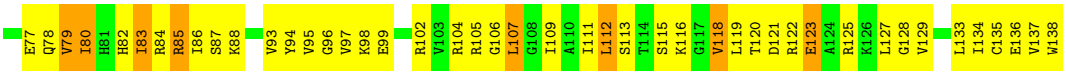


• Molecule 8: 30S ribosomal protein S8

Chain 7E:

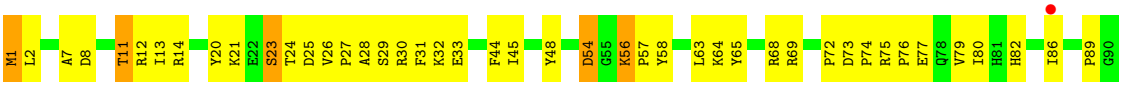


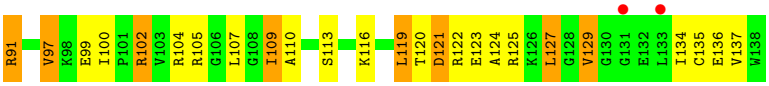




• Molecule 8: 30S ribosomal protein S8

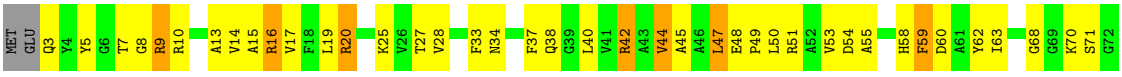
Chain 72:

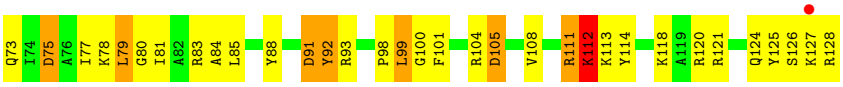




• Molecule 9: 30S ribosomal protein S9

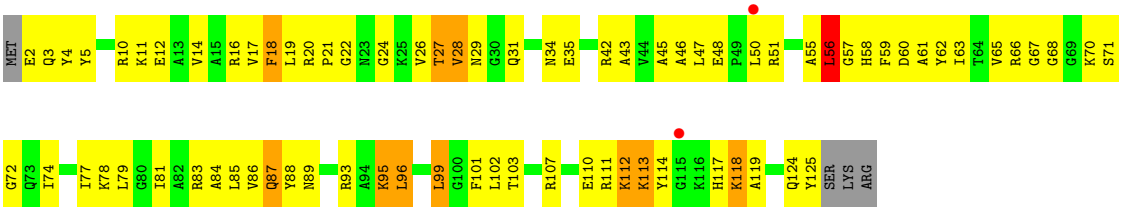
Chain 8E:





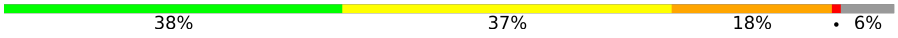
• Molecule 9: 30S ribosomal protein S9

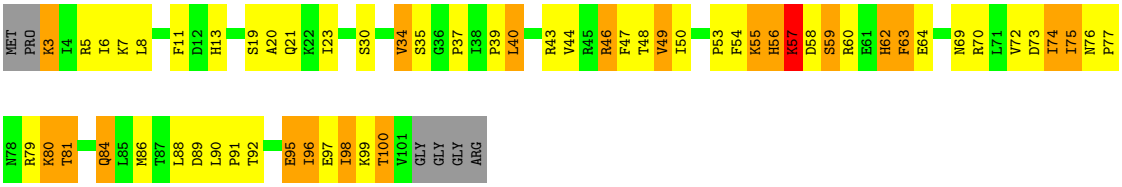
Chain 82:



• Molecule 10: 30S ribosomal protein S10

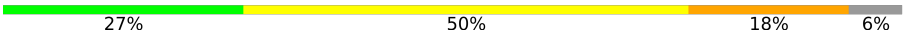
Chain 1I:

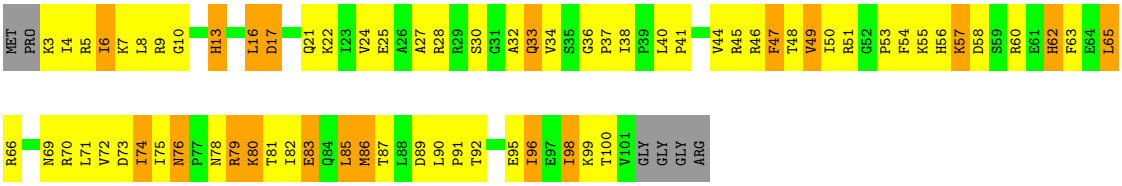




• Molecule 10: 30S ribosomal protein S10

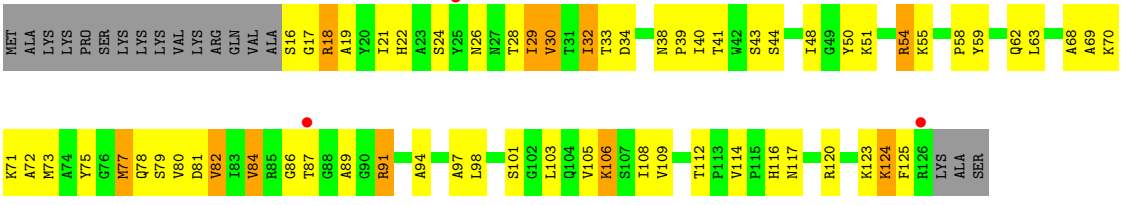
Chain 1A:





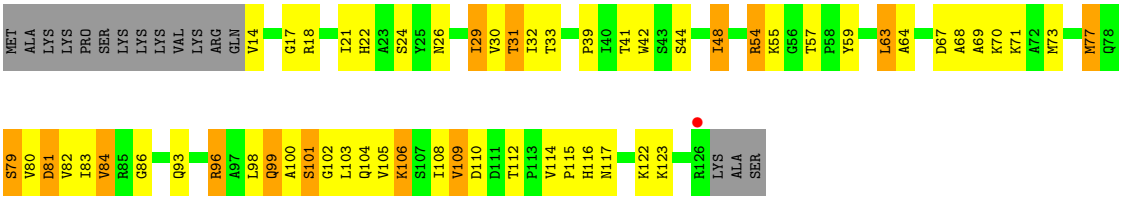
• Molecule 11: 30S ribosomal protein S11

Chain 2I:



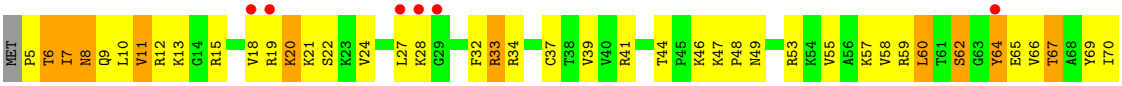
• Molecule 11: 30S ribosomal protein S11

Chain 2A:



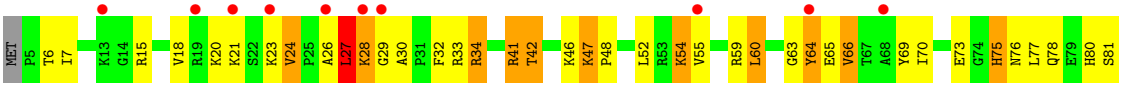
• Molecule 12: 30S ribosomal protein S12

Chain 3I:



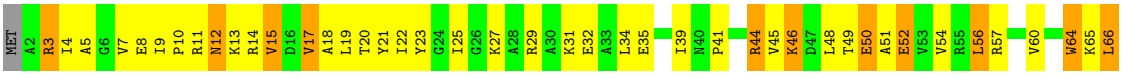
• Molecule 12: 30S ribosomal protein S12

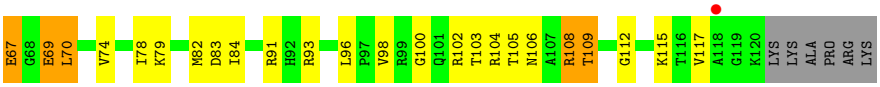
Chain 3A:



• Molecule 13: 30S ribosomal protein S13

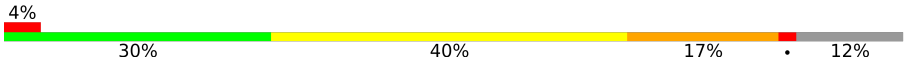
Chain 4I:

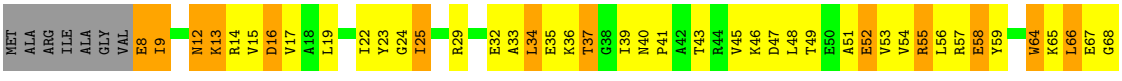


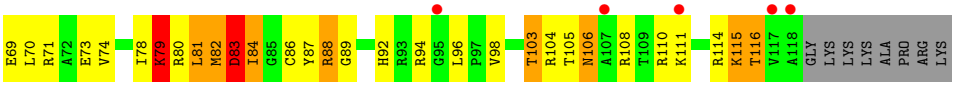


• Molecule 13: 30S ribosomal protein S13

Chain 4A:

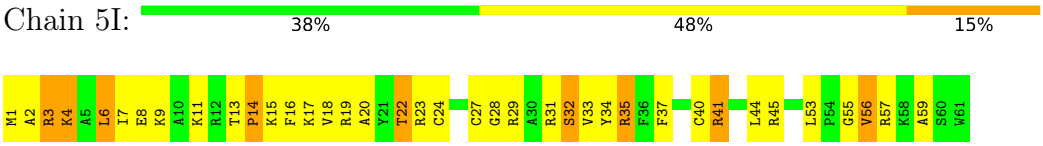






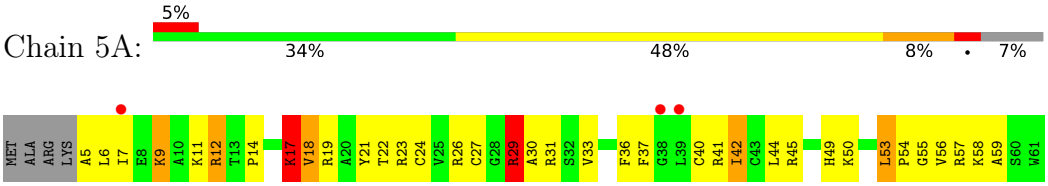
• Molecule 14: 30S ribosomal protein S14 type Z

Chain 5I:



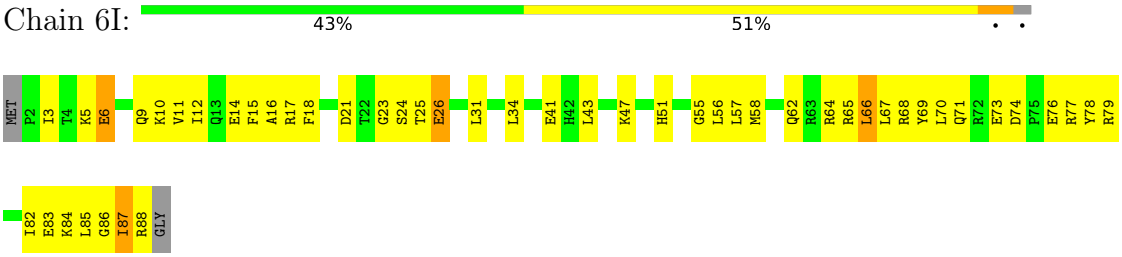
• Molecule 14: 30S ribosomal protein S14 type Z

Chain 5A:



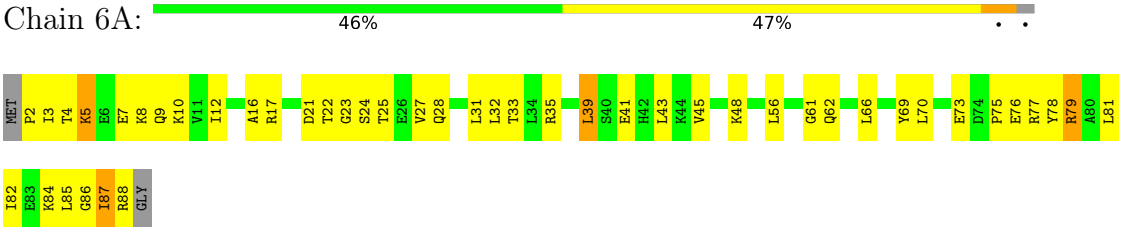
• Molecule 15: 30S ribosomal protein S15

Chain 6I:



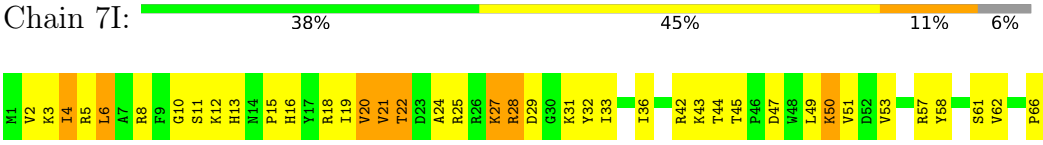
• Molecule 15: 30S ribosomal protein S15

Chain 6A:



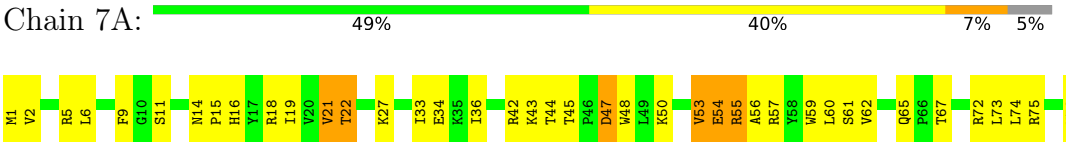
• Molecule 16: 30S ribosomal protein S16

Chain 7I:



• Molecule 16: 30S ribosomal protein S16

Chain 7A:

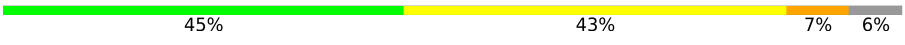


• Molecule 17: 30S ribosomal protein S17

Chain 8I:

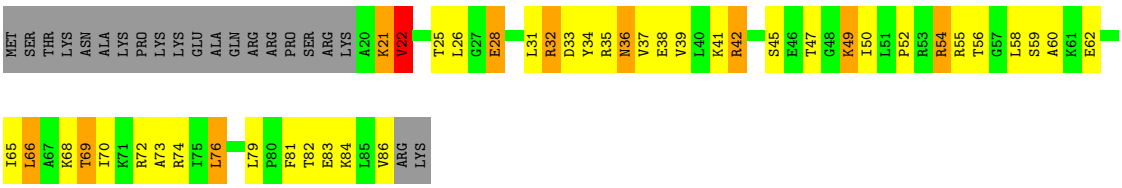
• Molecule 17: 30S ribosomal protein S17

Chain 8A:



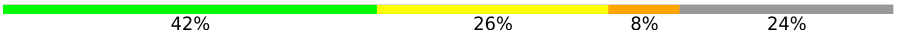
• Molecule 18: 30S ribosomal protein S18

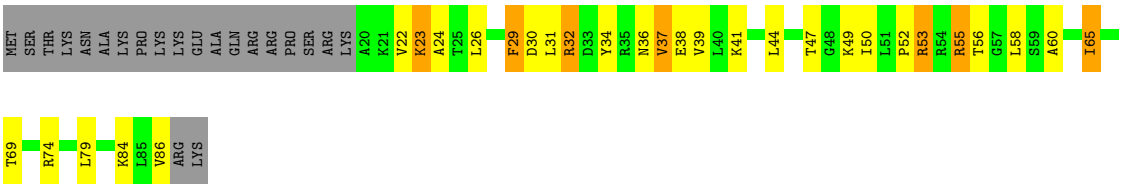
Chain 9I:



• Molecule 18: 30S ribosomal protein S18

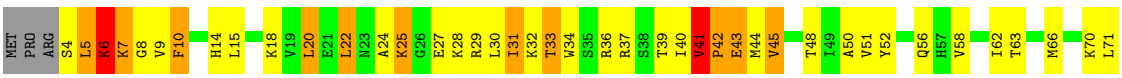
Chain 9A:





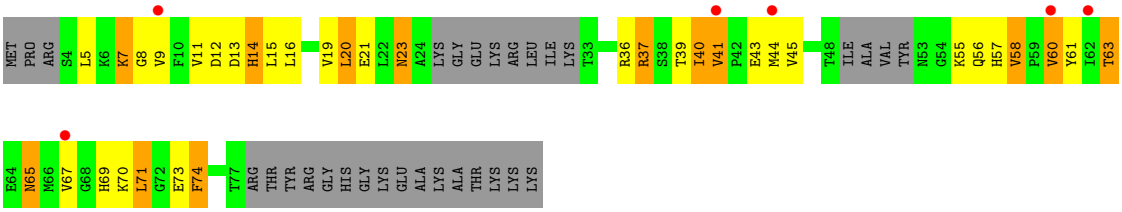
• Molecule 19: 30S ribosomal protein S19

Chain AI:



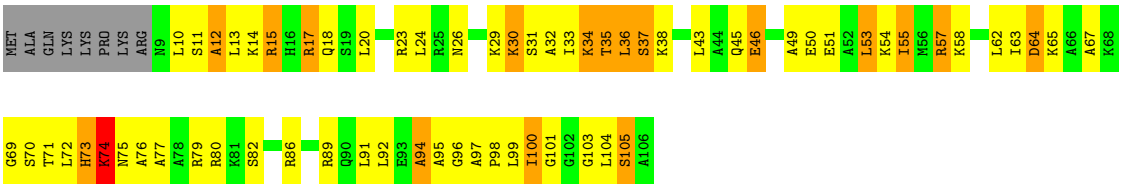
• Molecule 19: 30S ribosomal protein S19

Chain AA:



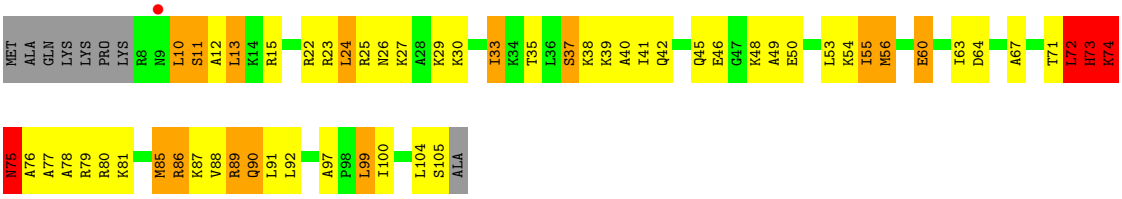
• Molecule 20: 30S ribosomal protein S20

Chain BI:



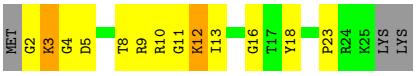
• Molecule 20: 30S ribosomal protein S20

Chain BA:



• Molecule 21: 30S ribosomal protein Thx

Chain 1F:

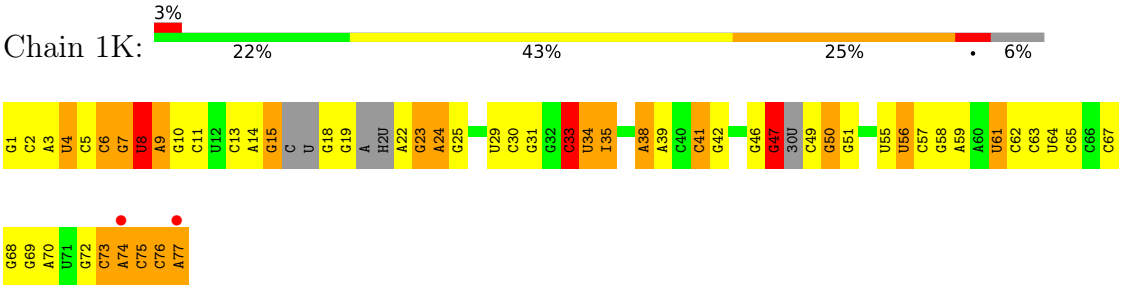


• Molecule 21: 30S ribosomal protein Thx

Chain 1B:

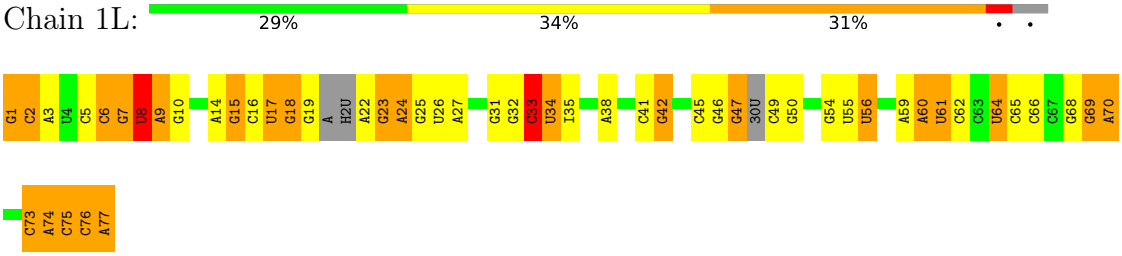
• Molecule 22: tRNAArg

Chain 1K:



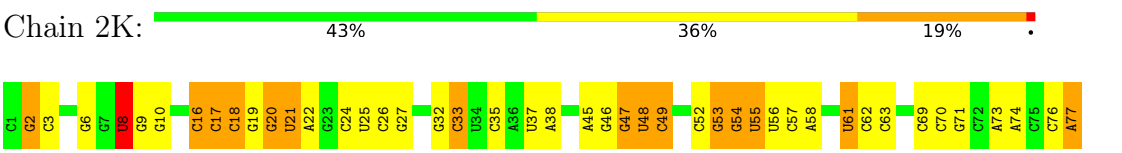
• Molecule 22: tRNAArg

Chain 1L:



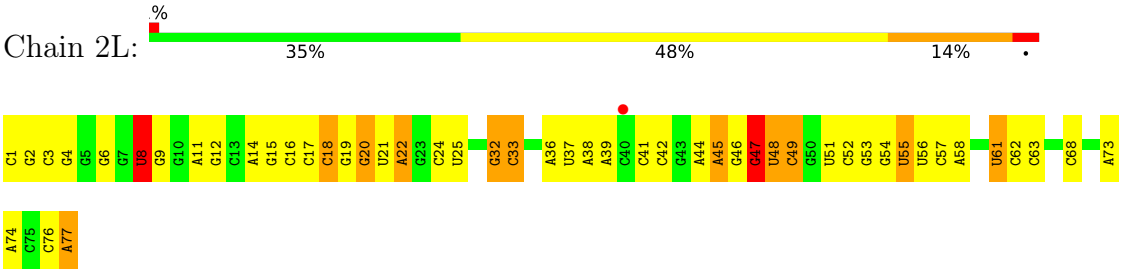
• Molecule 23: tRNAfMet

Chain 2K:



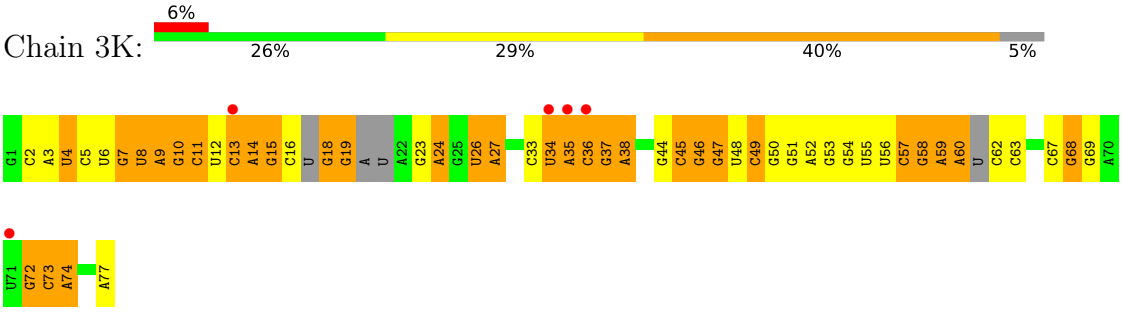
• Molecule 23: tRNAfMet

Chain 2L:



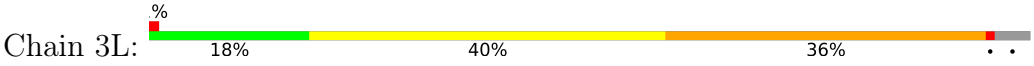
• Molecule 24: tRNAArg

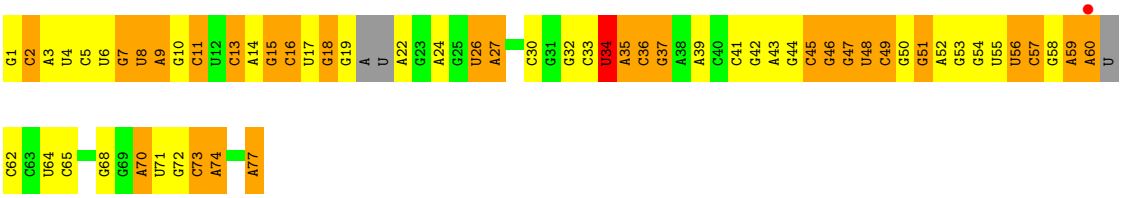
Chain 3K:



• Molecule 24: tRNAArg

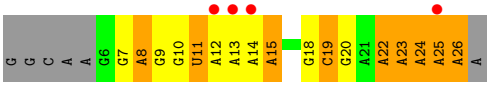
Chain 3L:





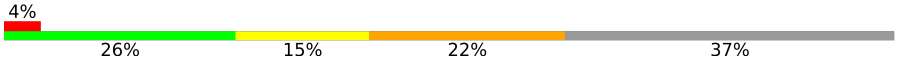
• Molecule 25: mRNA

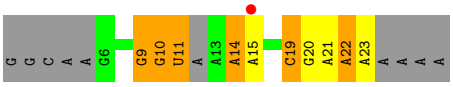
Chain 4K:



• Molecule 25: mRNA

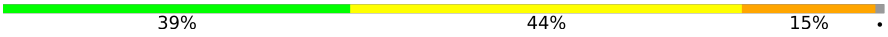
Chain 4L:

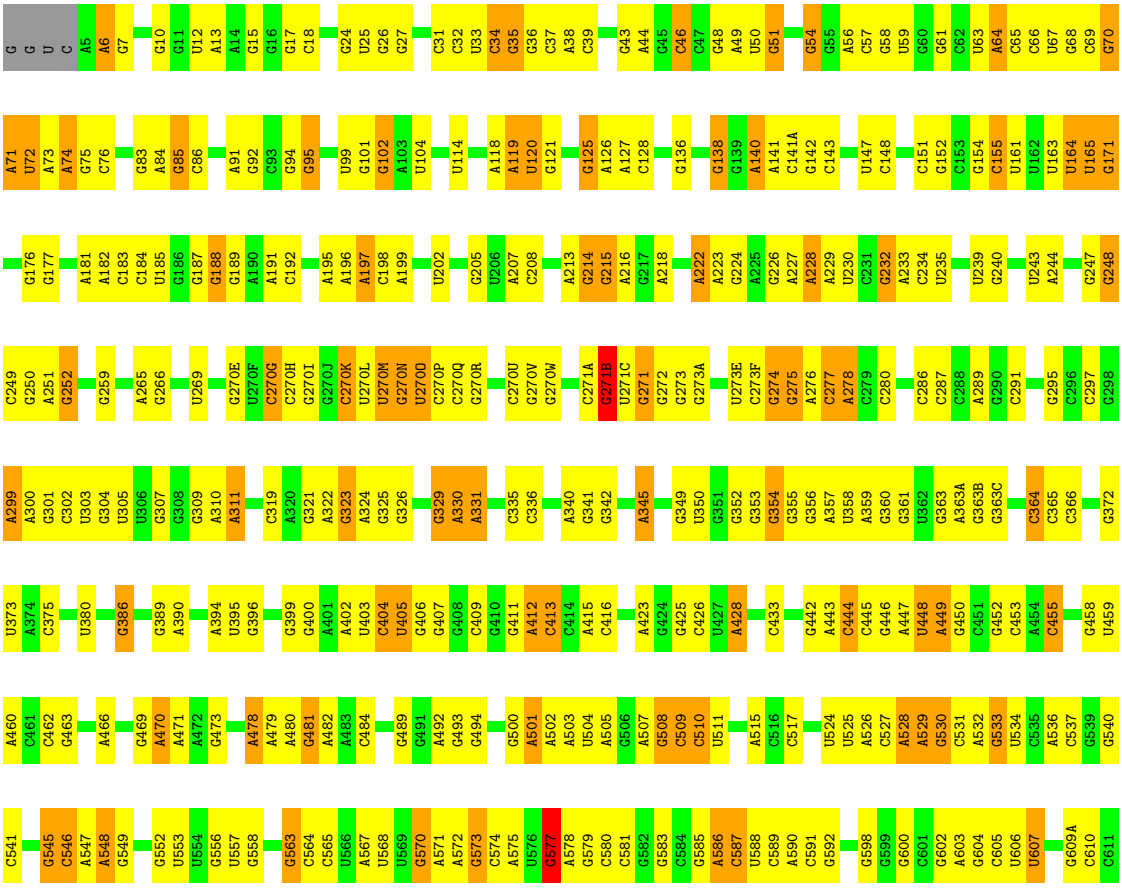


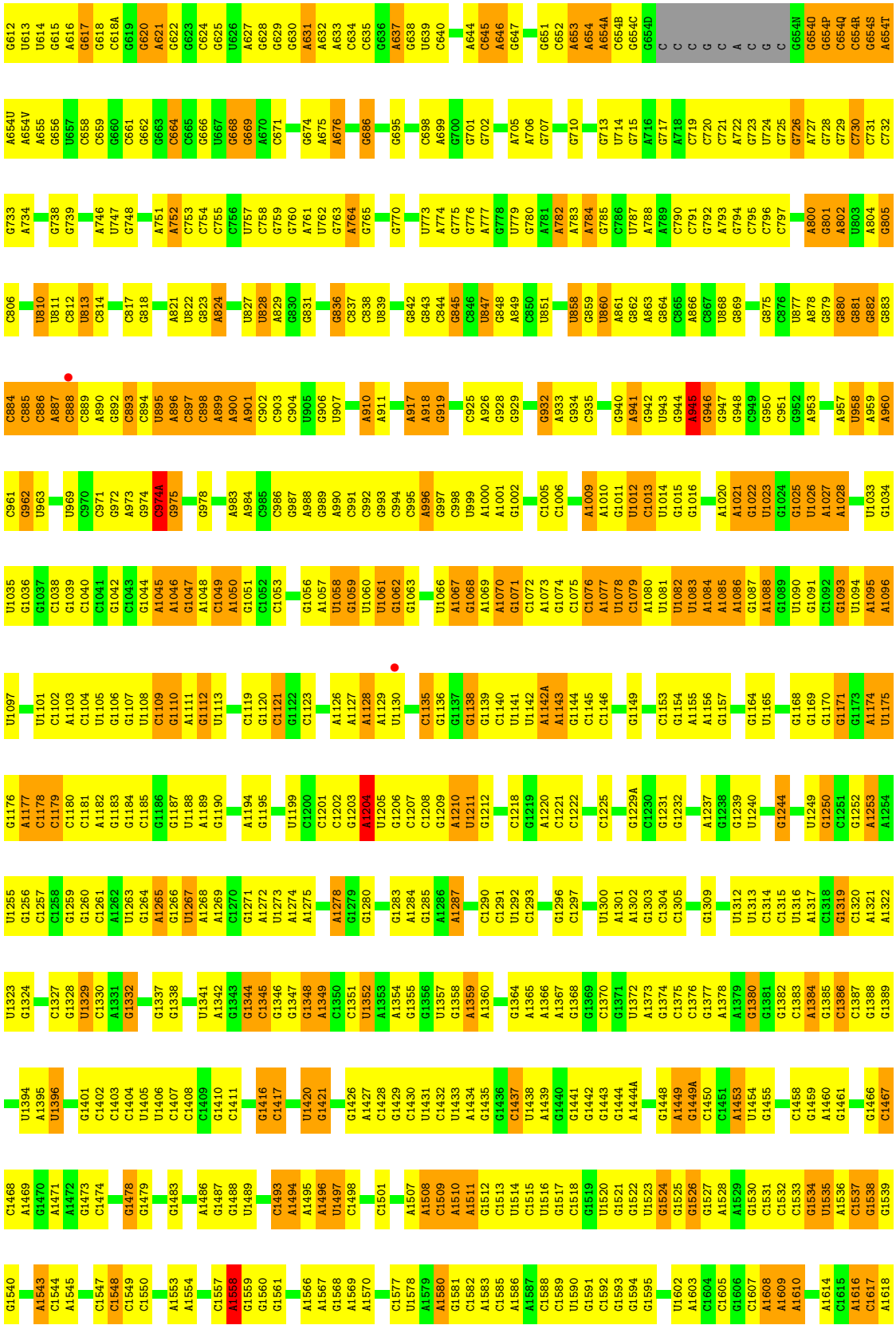


• Molecule 26: 23S ribosomal RNA

Chain 1H:



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G733 A734 G738 G739 A746 U747 G748 A751 A752 C753 C754 C755 C756 U757 C758 G759 G760 A761 U762 G763 A764 G765 G770 U773 A774 G775 G776 A777 G778 U779 G780 A781 A782 A783 A784 G785 C786 U787 A788 A789 C790 C791 G792 A793 G794 C795 C796 C797 A800 G801 A802 U803 A804 G805
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C884 C885 C886 A887 C888 C889 A890 G892 C893 C894 U895 A896 C897 C898 A899 A900 A901 C902 C903 C904 U905 G906 U907 A910 A911 A917 A918 G919 C925 A926 G928 G929 G932 A933 G934 C935 G940 A941 G942 U943 G944 A945 G946 G947 G948 C949 G950 C951 G952 A953 A957 U958 A959 A960
C961 G962 U963 U969 C970 C971 G972 A973 G974 C974A G975 G978 A983 A984 C985 C986 G987 A988 G989 A990 C991 C992 G993 C994 C995 A996 G997 C998 U999 A1000 A1001 G1002 C1005 C1006 A1009 A1010 G1011 U1012 C1013 U1014 G1015 G1016 A1020 A1021 G1022 U1023 G1024 G1025 U1026 A1027 A1028 U1033 G1034
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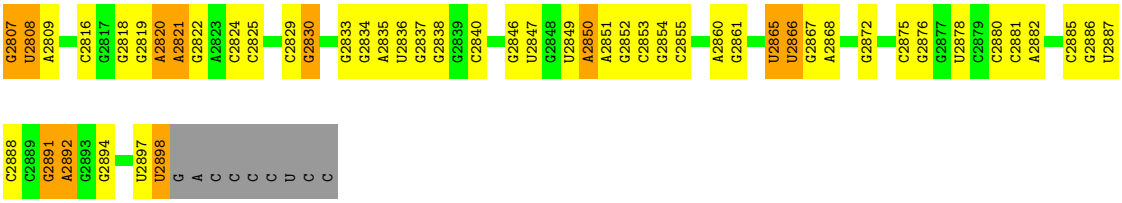
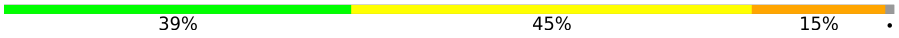
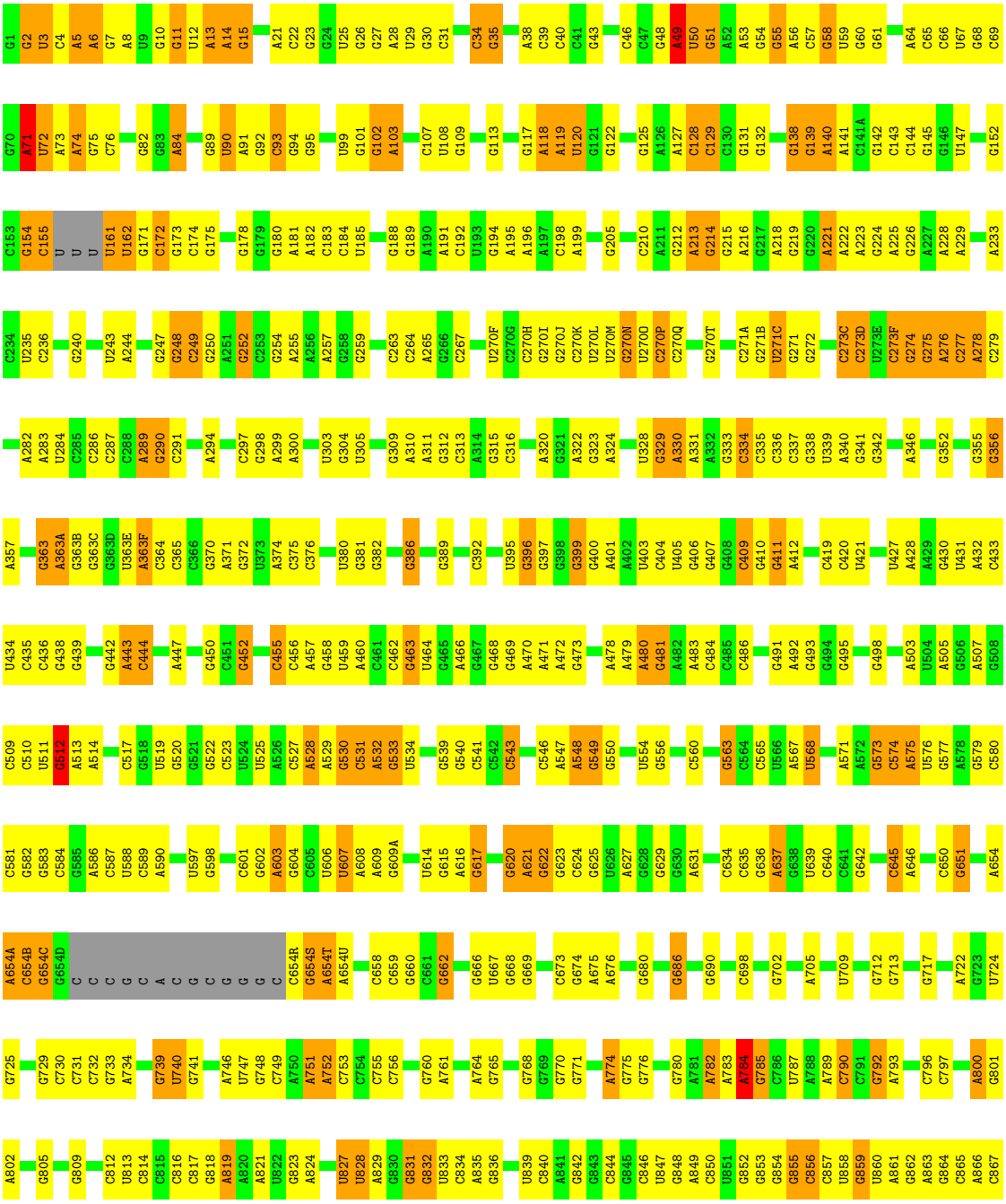
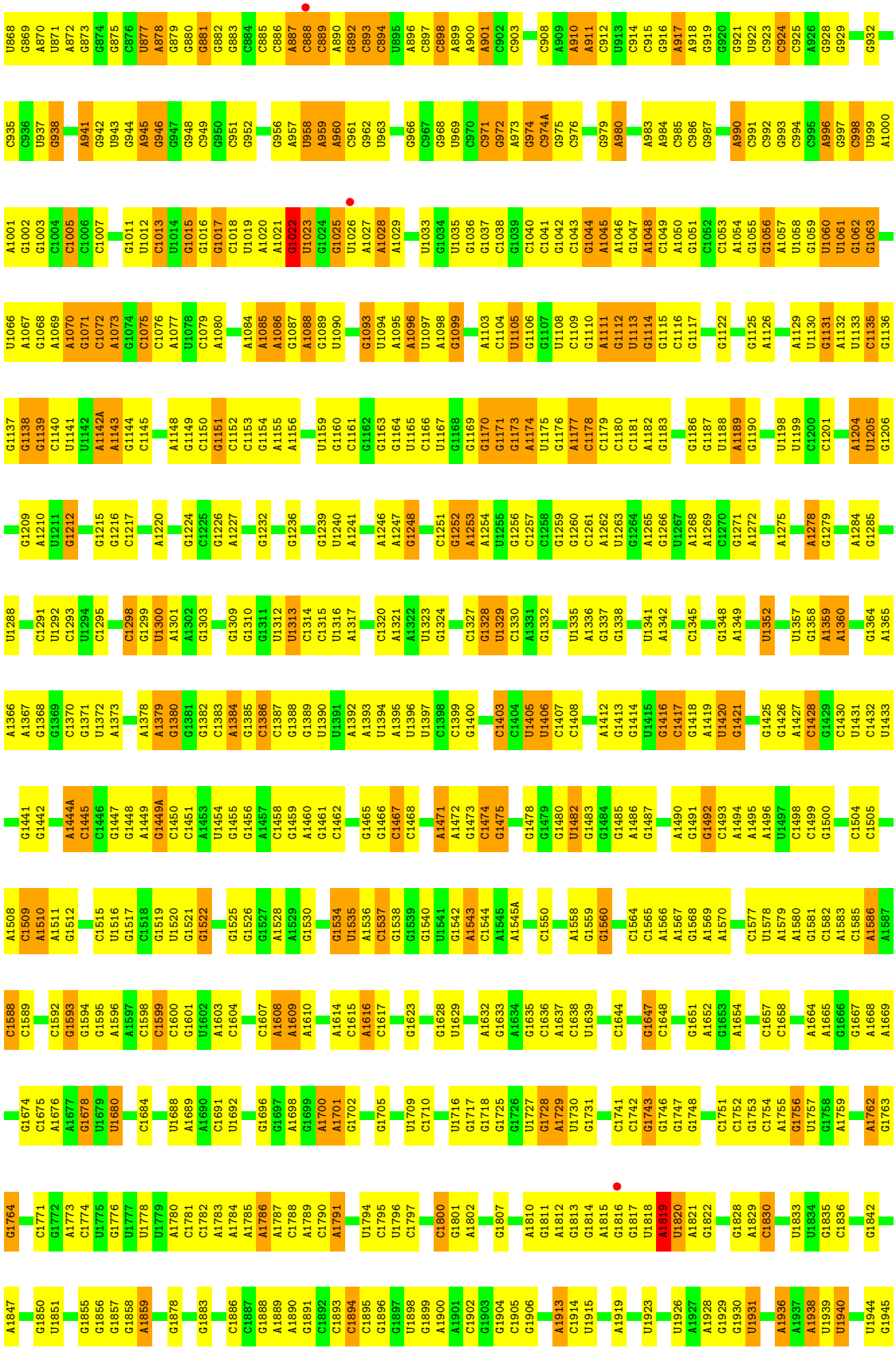


• Molecule 26: 23S ribosomal RNA

Chain 14:



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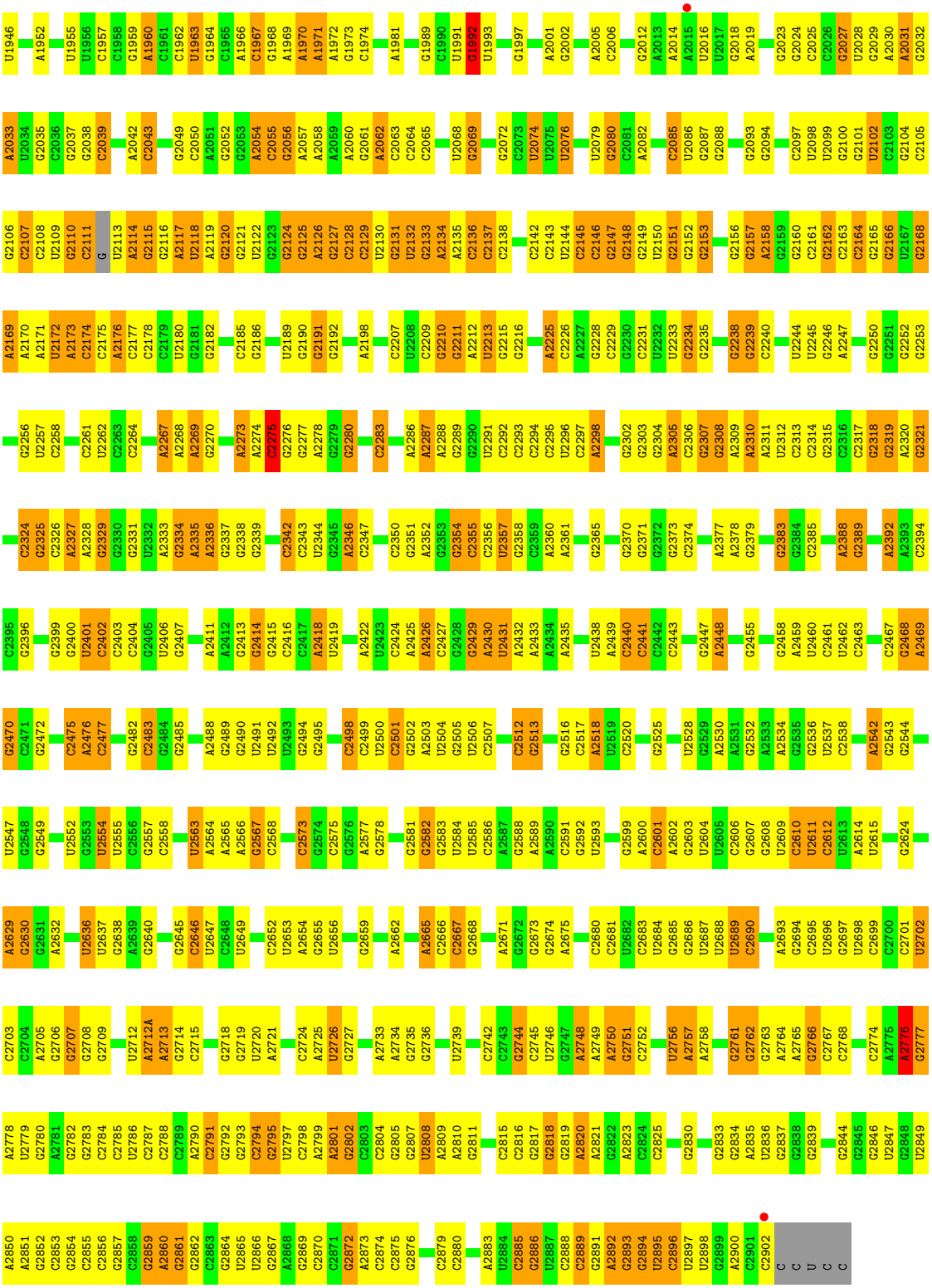
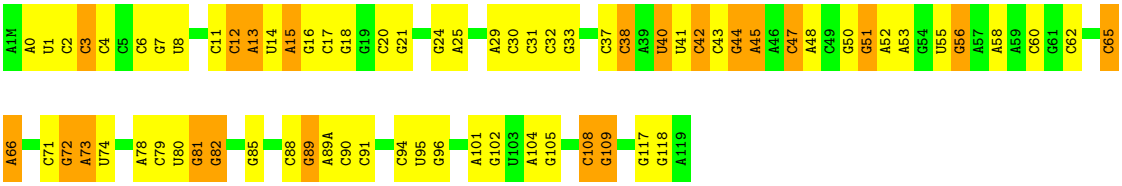


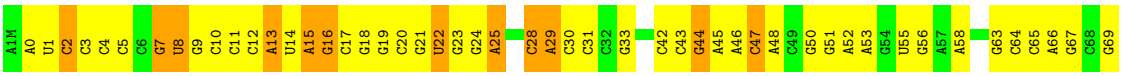
• Molecule 27: 5S ribosomal RNA

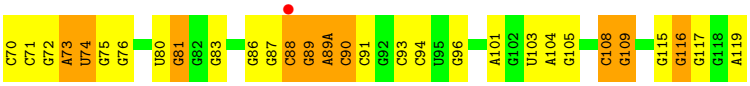
Chain 16:



• Molecule 27: 5S ribosomal RNA

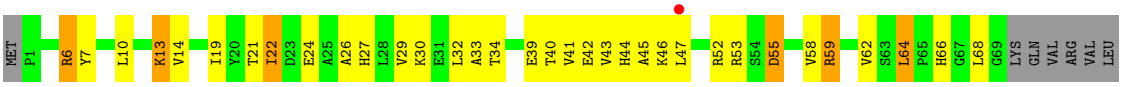
Chain 1J:

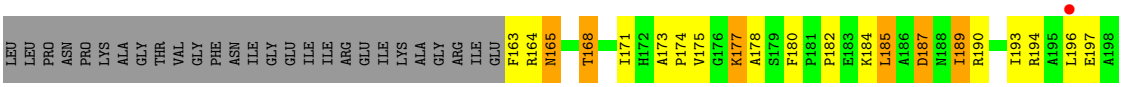




• Molecule 28: 50S ribosomal protein L1

Chain 71:





• Molecule 28: 50S ribosomal protein L1

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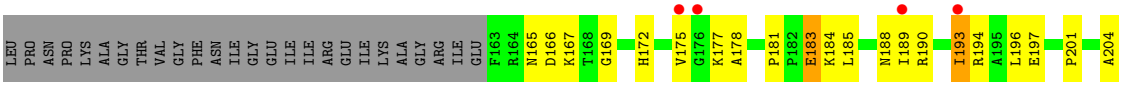
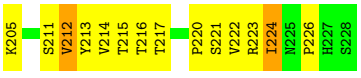
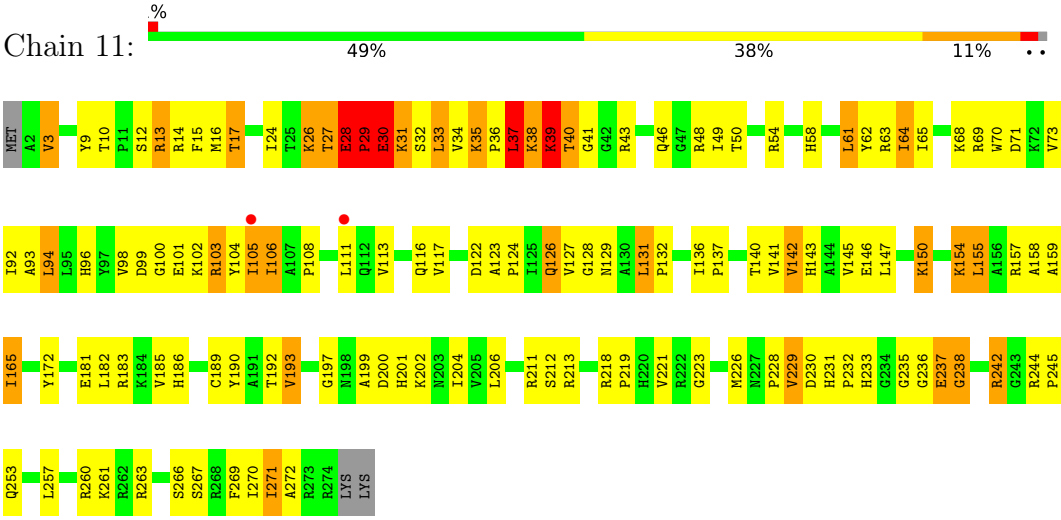




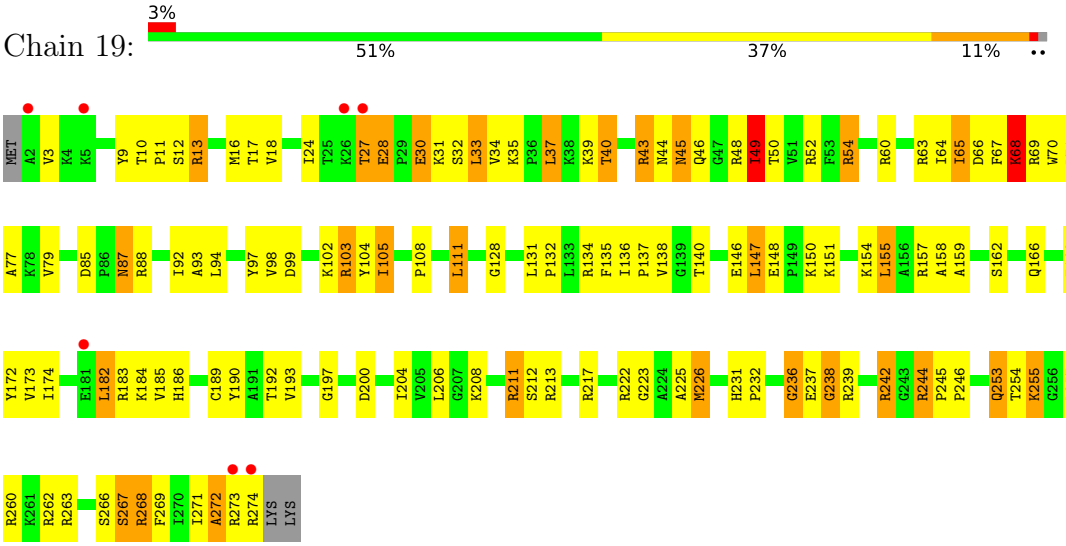
• Molecule 29: 50S ribosomal protein L2

Chain 11:



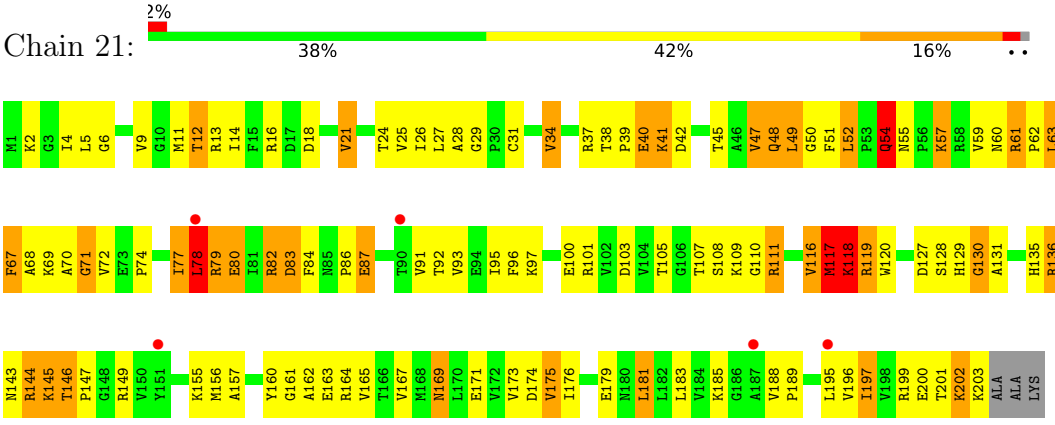
• Molecule 29: 50S ribosomal protein L2

Chain 19:



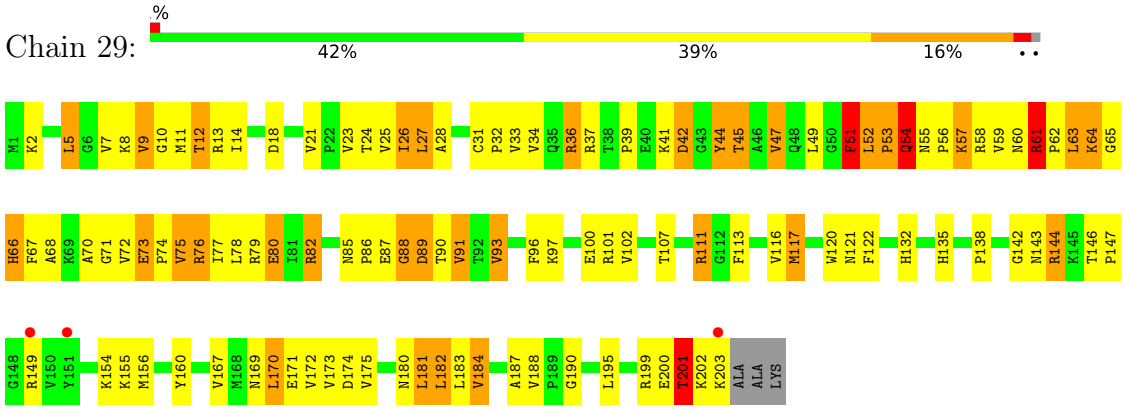
• Molecule 30: 50S ribosomal protein L3

Chain 21:



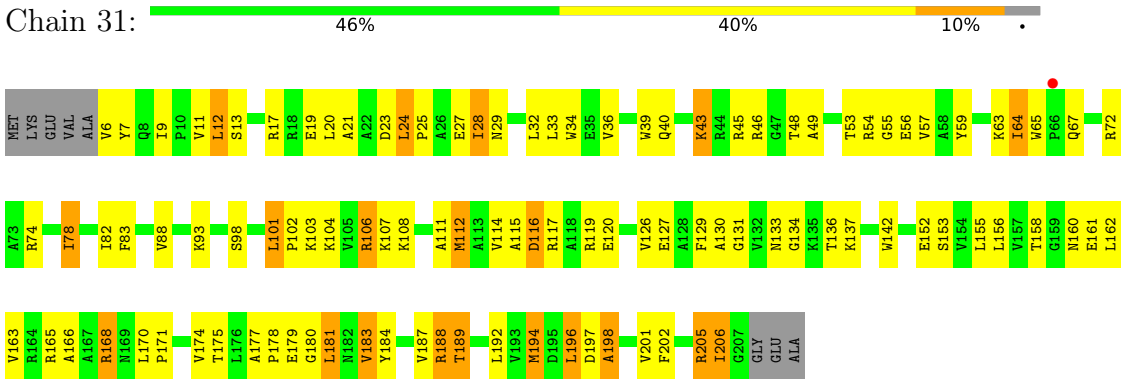
• Molecule 30: 50S ribosomal protein L3

Chain 29:



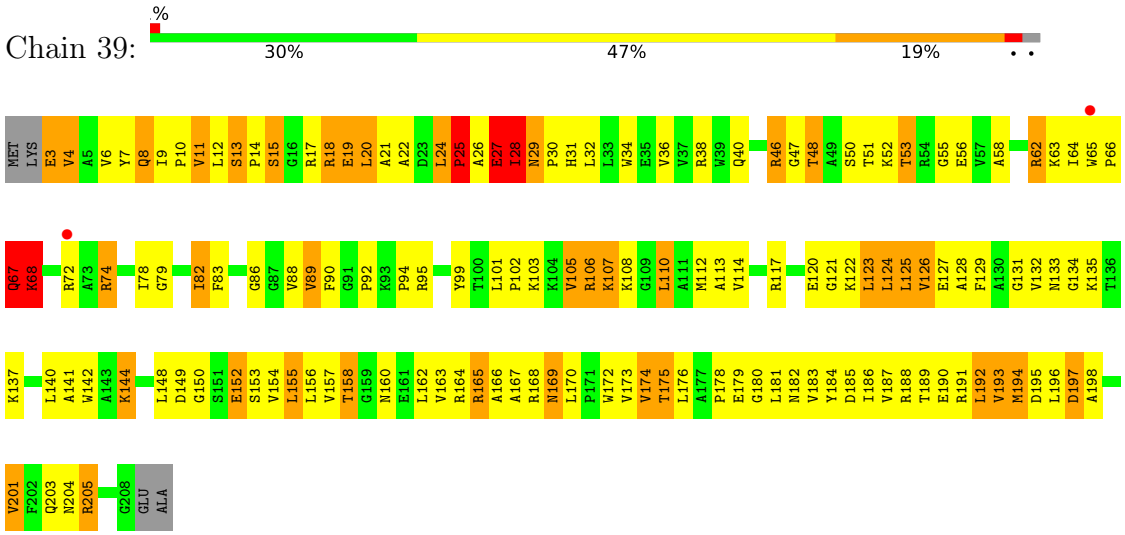
• Molecule 31: 50S ribosomal protein L4

Chain 31:



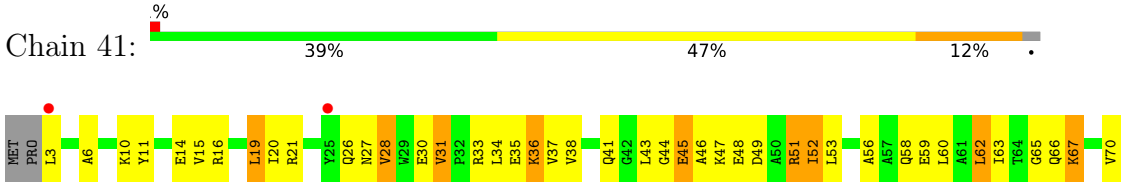
• Molecule 31: 50S ribosomal protein L4

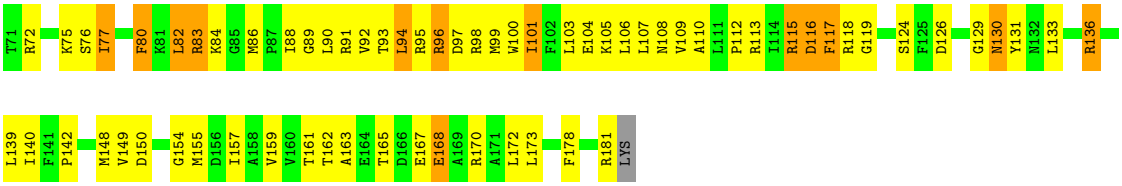
Chain 39:



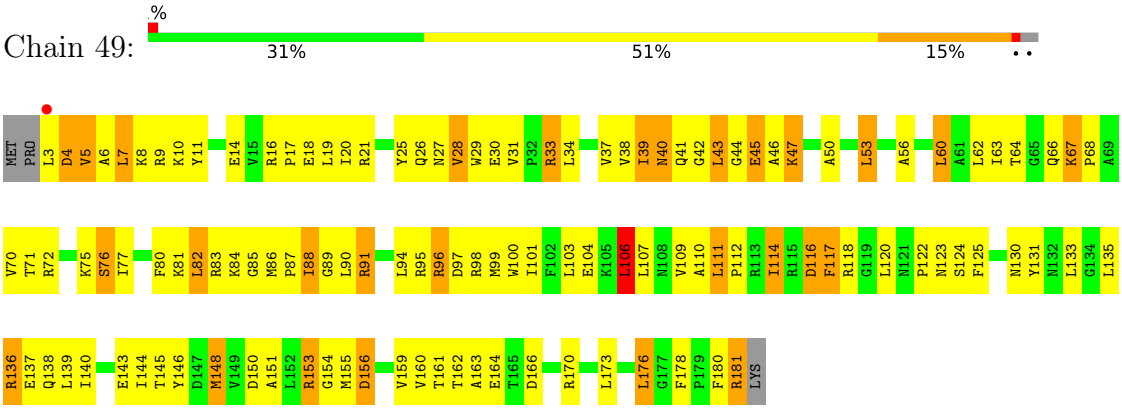
• Molecule 32: 50S ribosomal protein L5

Chain 41:

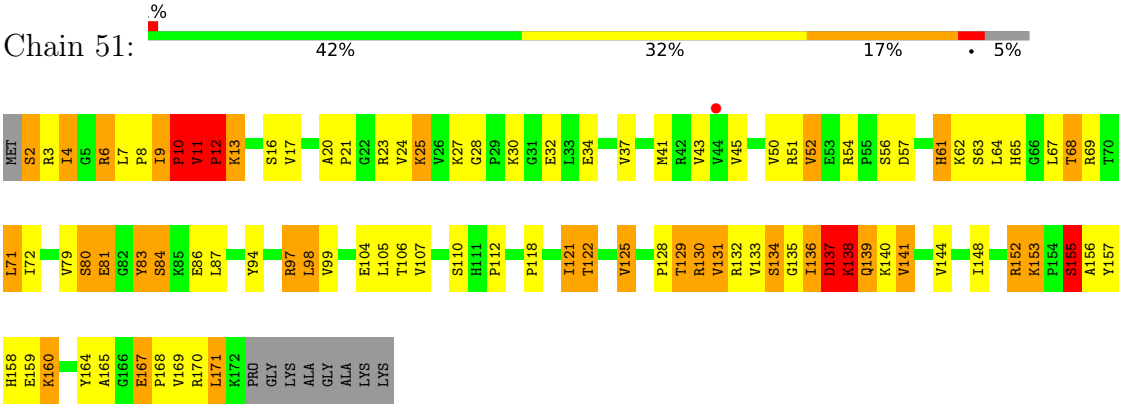




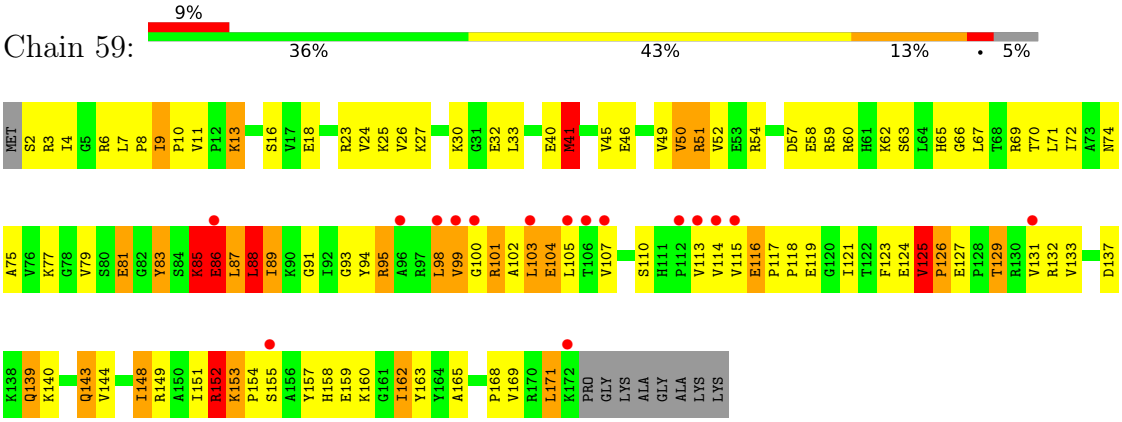
• Molecule 32: 50S ribosomal protein L5



• Molecule 33: 50S ribosomal protein L6

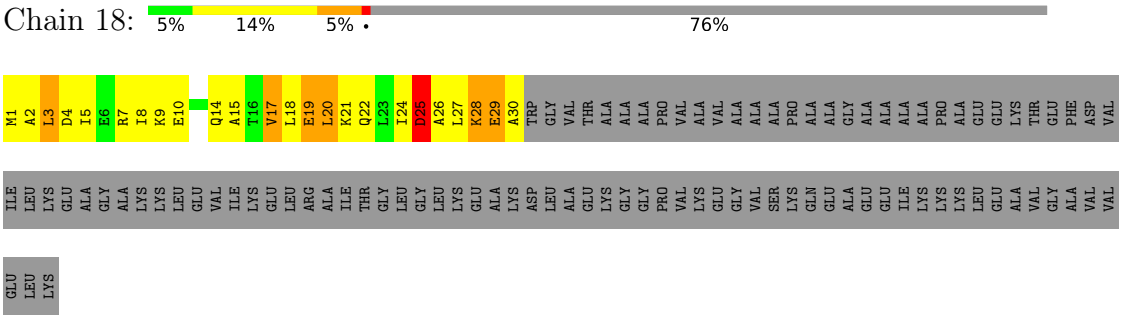


• Molecule 33: 50S ribosomal protein L6



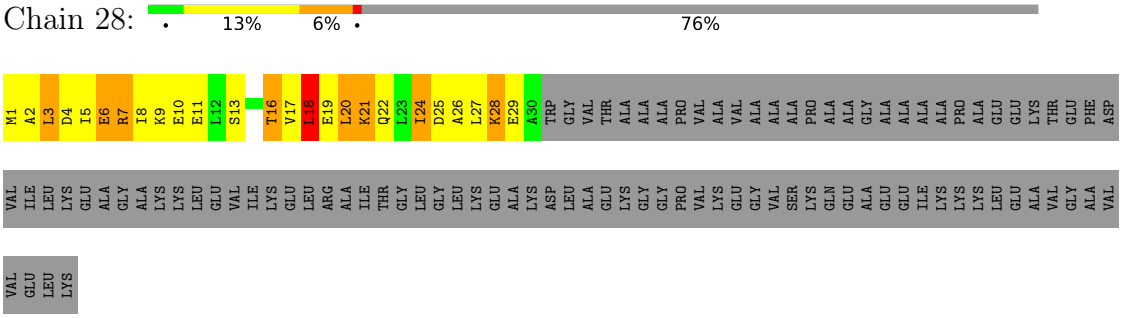
• Molecule 34: 50S ribosomal protein L7/L12

Chain 18:



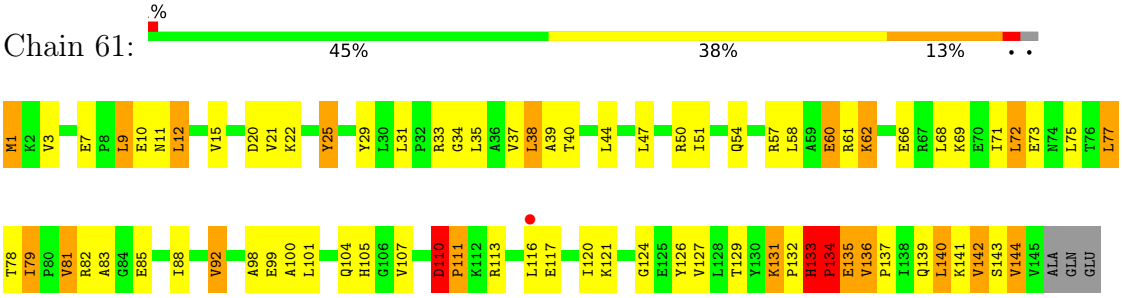
• Molecule 34: 50S ribosomal protein L7/L12

Chain 28:



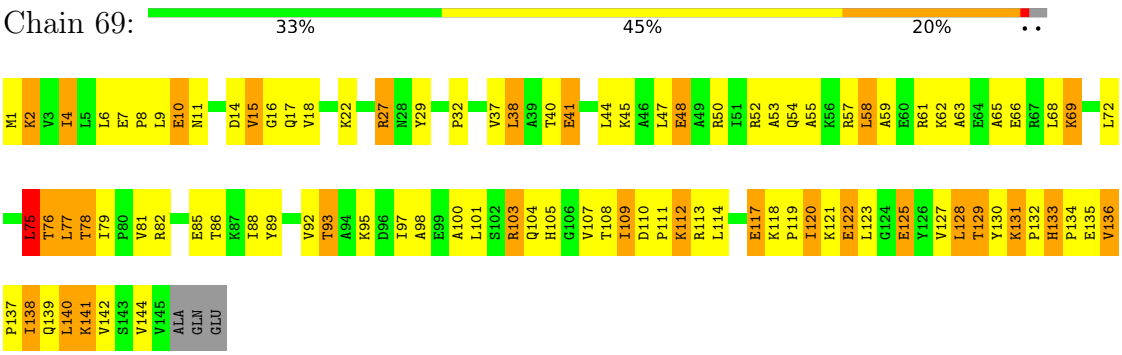
• Molecule 35: 50S ribosomal protein L9

Chain 61:



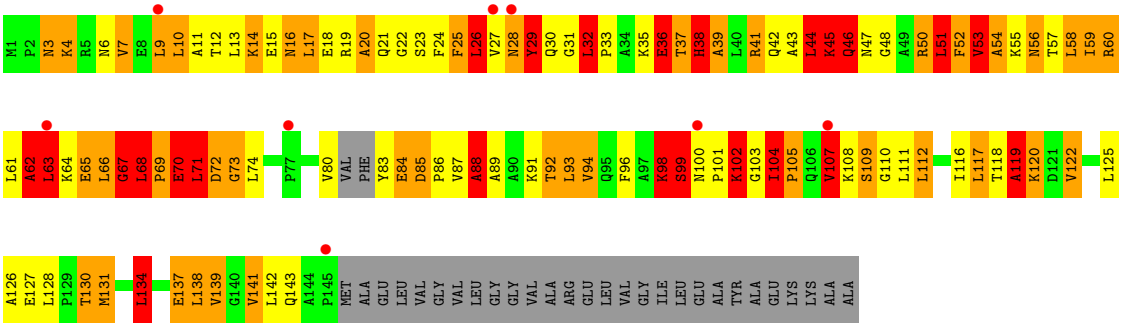
• Molecule 35: 50S ribosomal protein L9

Chain 69:



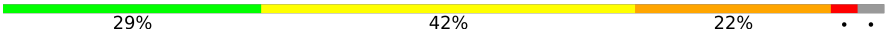
• Molecule 36: 50S ribosomal protein L10

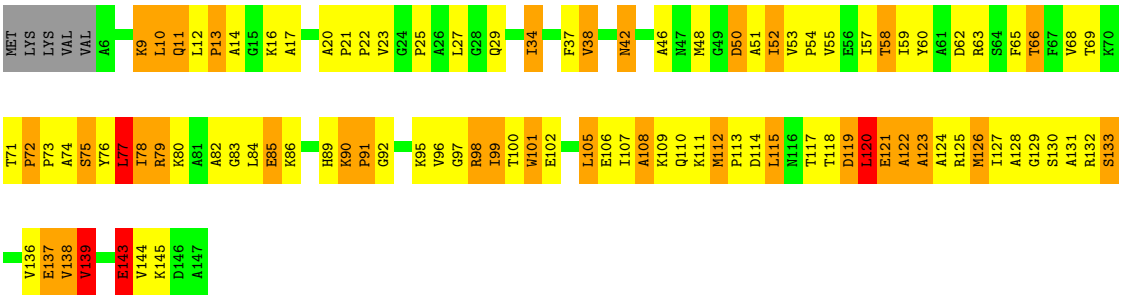
Chain 38:



• Molecule 37: 50S ribosomal protein L11

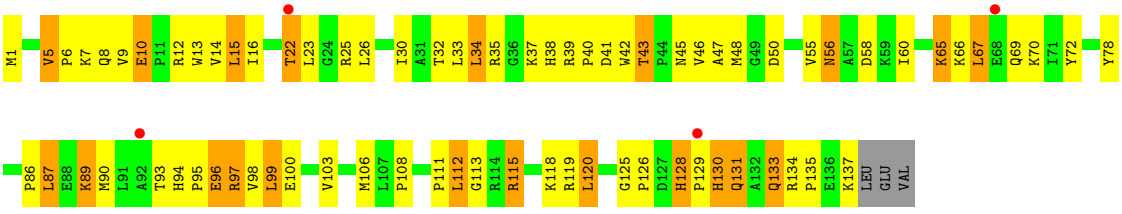
Chain 48:





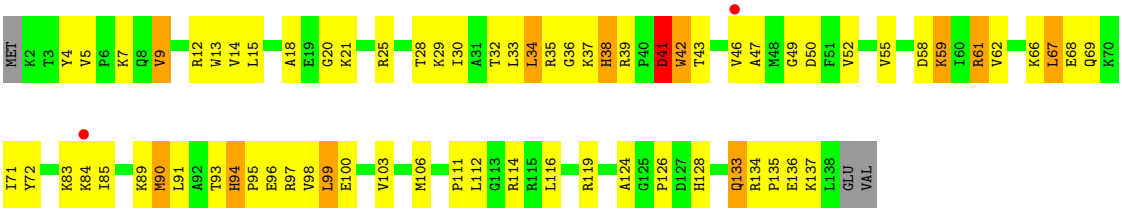
• Molecule 38: 50S ribosomal protein L13

Chain 58:



• Molecule 38: 50S ribosomal protein L13

Chain 15:

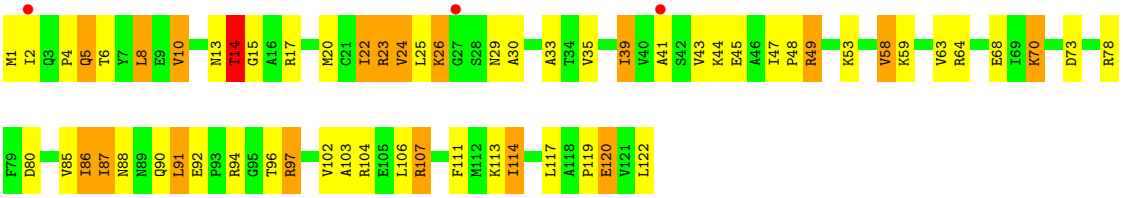


• Molecule 39: 50S ribosomal protein L14

Chain 68:

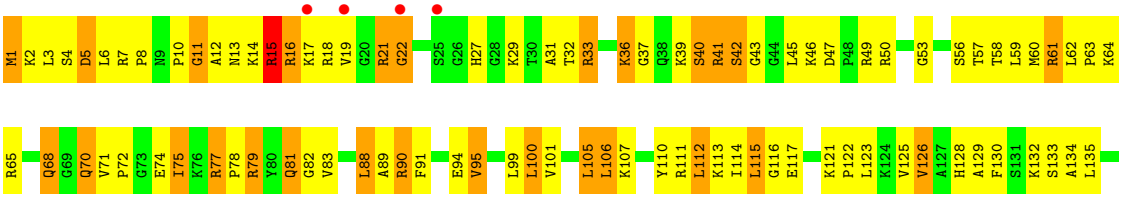
• Molecule 39: 50S ribosomal protein L14

Chain 25:



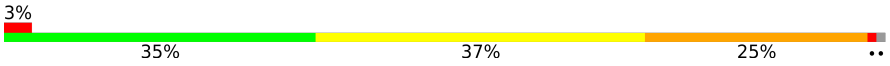
• Molecule 40: 50S ribosomal protein L15

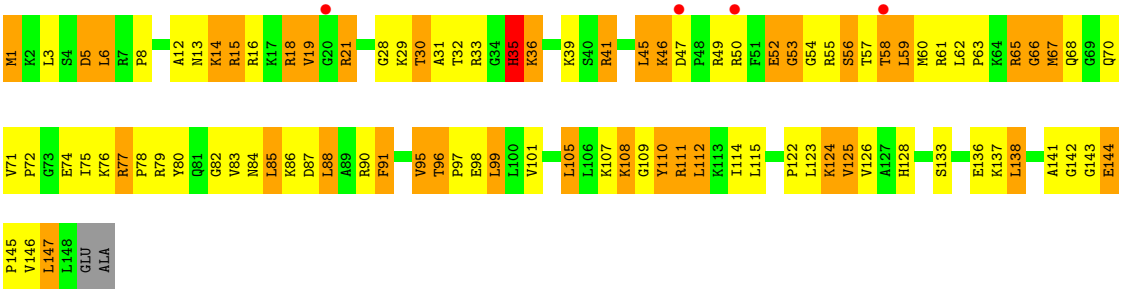
Chain 78:



• Molecule 40: 50S ribosomal protein L15

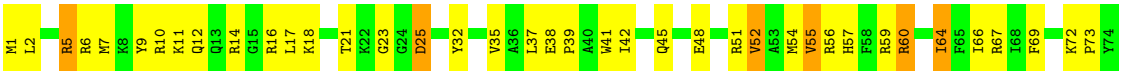
Chain 35:



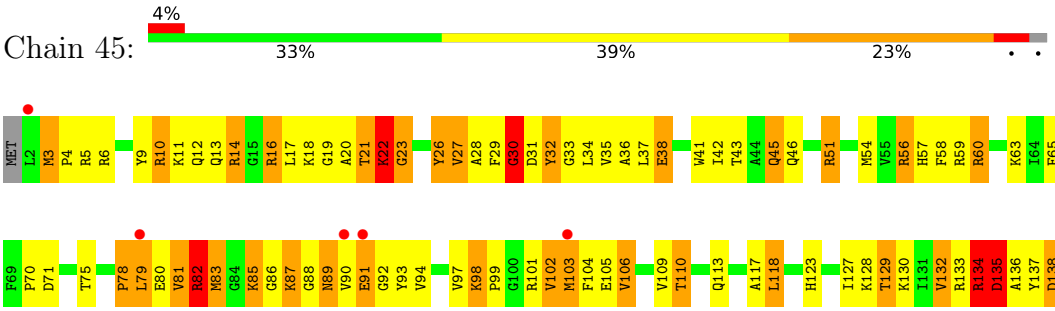


• Molecule 41: 50S ribosomal protein L16

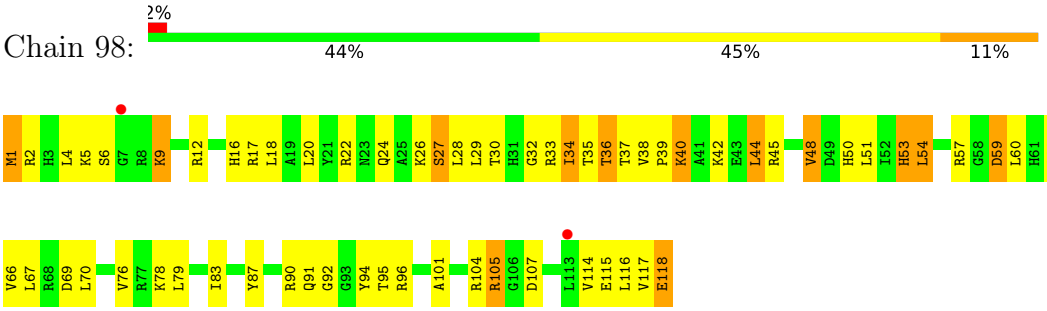
Chain 88:



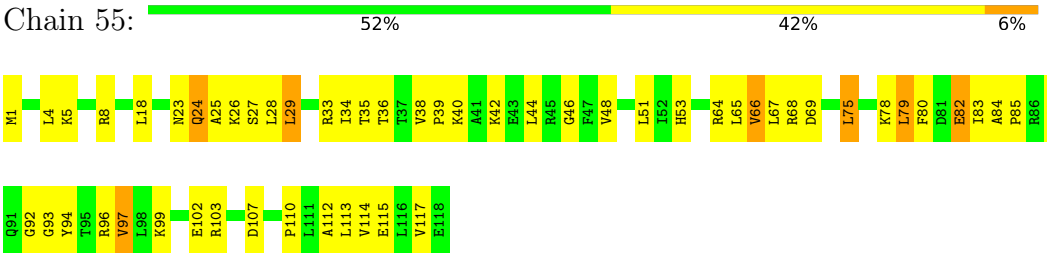
• Molecule 41: 50S ribosomal protein L16



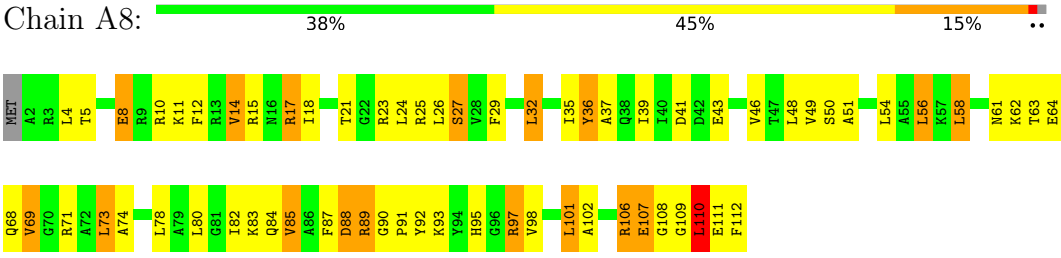
• Molecule 42: 50S ribosomal protein L17



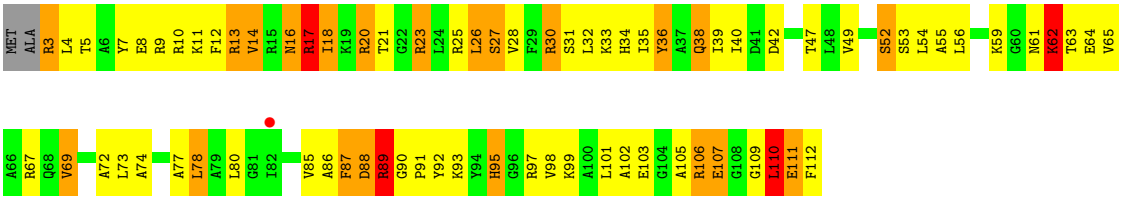
• Molecule 42: 50S ribosomal protein L17



• Molecule 43: 50S ribosomal protein L18

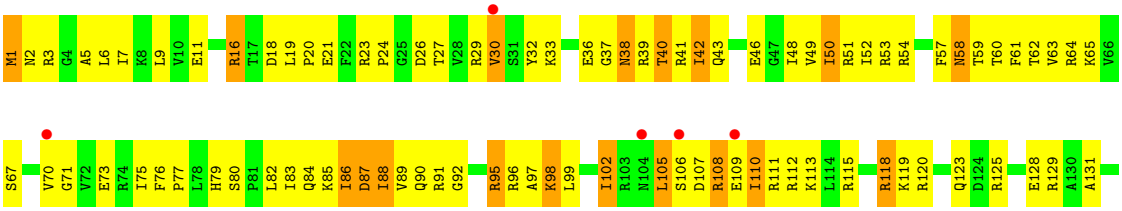


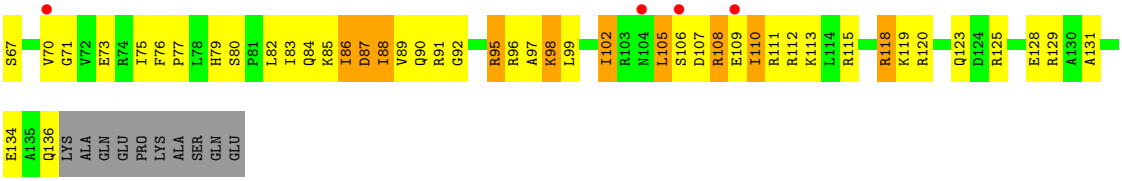
• Molecule 43: 50S ribosomal protein L18



• Molecule 44: 50S ribosomal protein L19

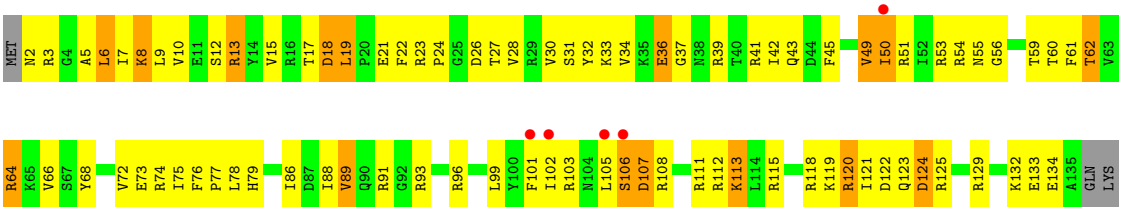
Chain B8:

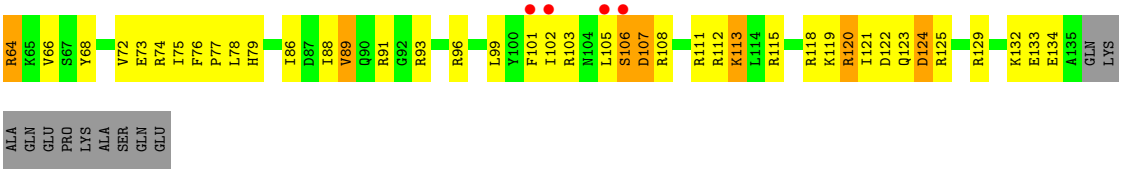




• Molecule 44: 50S ribosomal protein L19

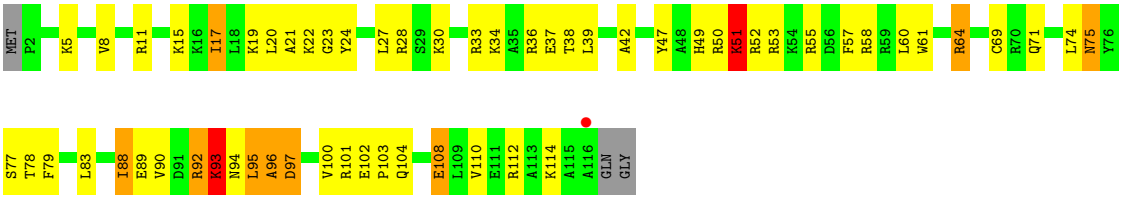
Chain 75:





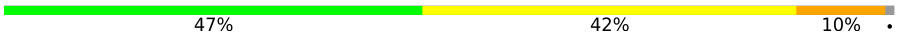
• Molecule 45: 50S ribosomal protein L20

Chain C8:



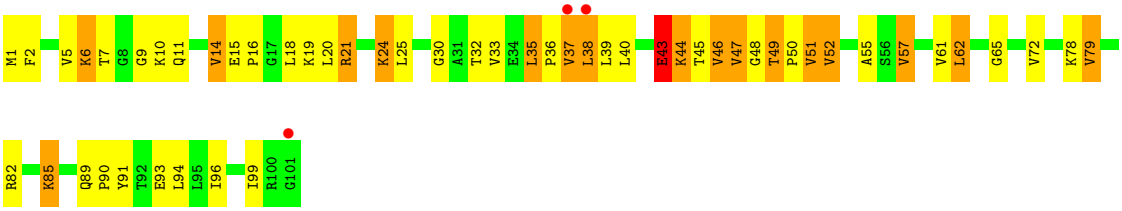
• Molecule 45: 50S ribosomal protein L20

Chain 85:



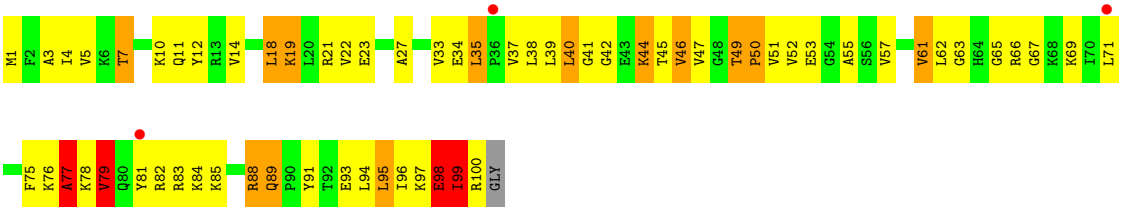
• Molecule 46: 50S ribosomal protein L21

Chain D8:



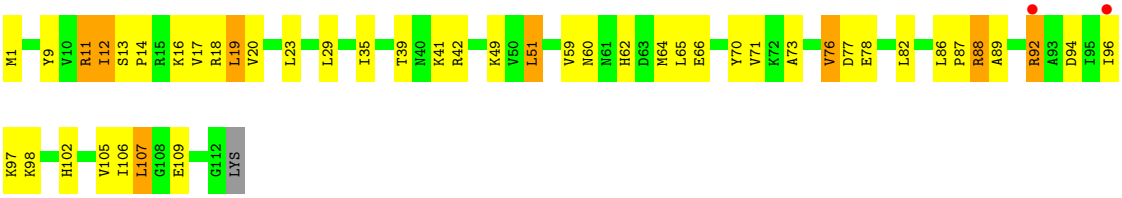
• Molecule 46: 50S ribosomal protein L21

Chain 95:



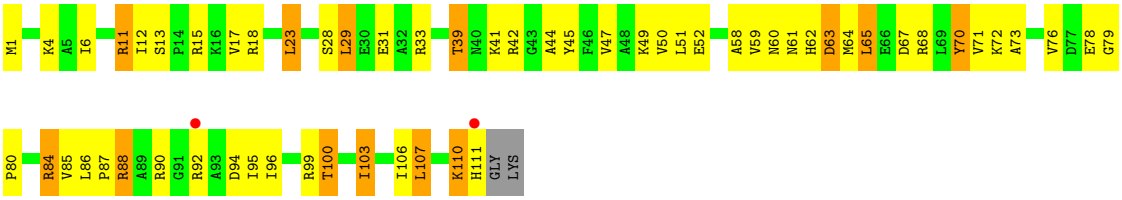
• Molecule 47: 50S ribosomal protein L22

Chain E8:



• Molecule 47: 50S ribosomal protein L22

Chain A5:

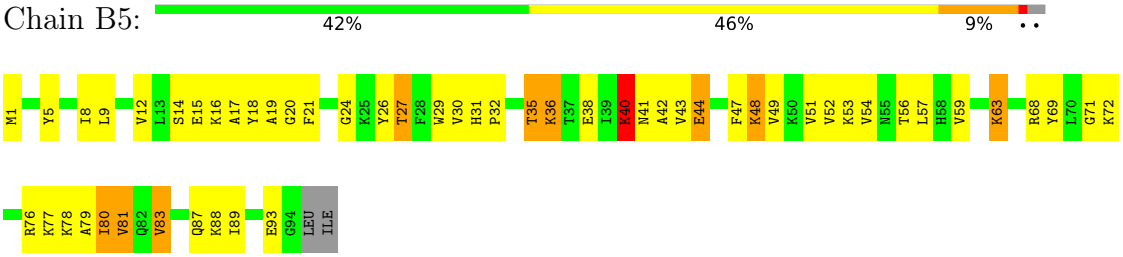


• Molecule 48: 50S ribosomal protein L23

Chain F8:

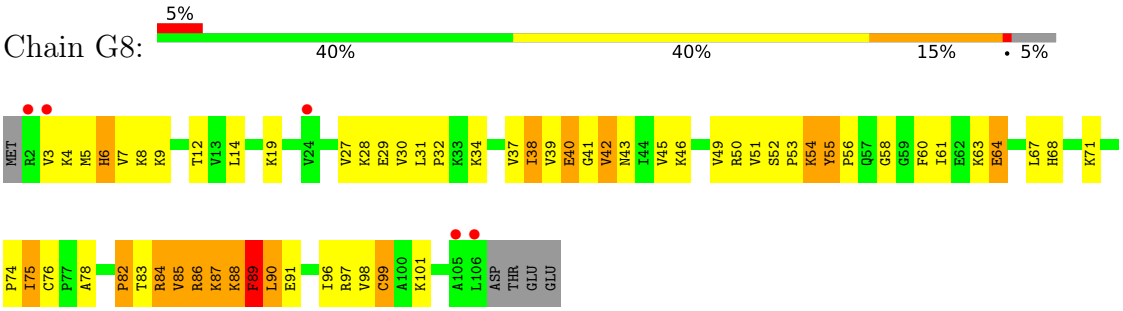
• Molecule 48: 50S ribosomal protein L23

Chain B5:



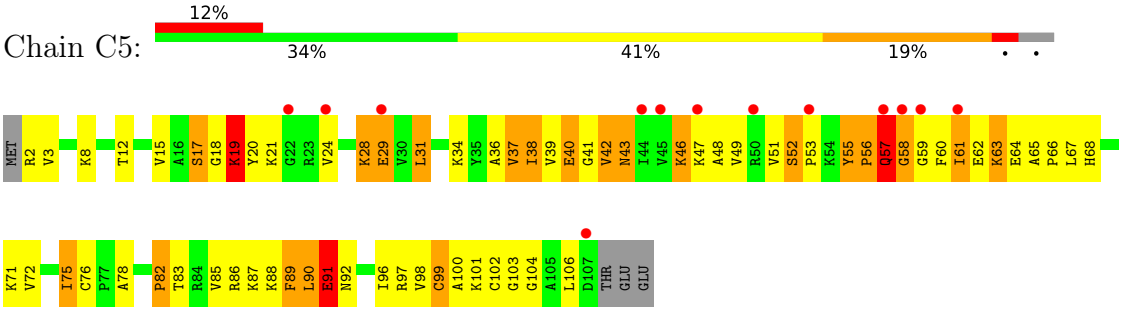
• Molecule 49: 50S ribosomal protein L24

Chain G8:



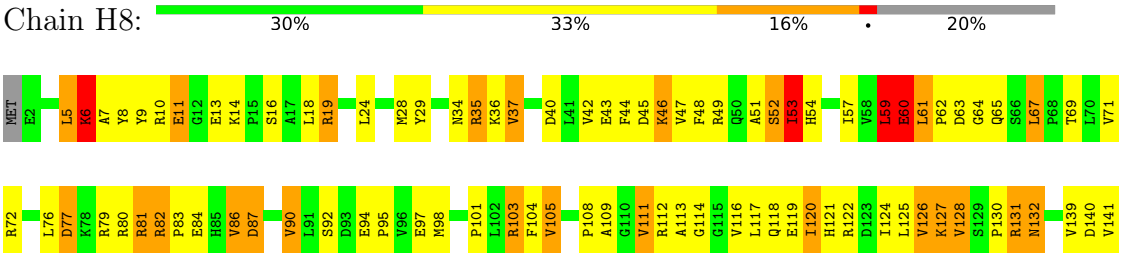
• Molecule 49: 50S ribosomal protein L24

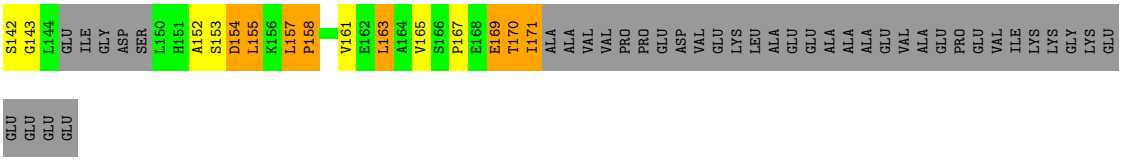
Chain C5:



• Molecule 50: 50S ribosomal protein L25

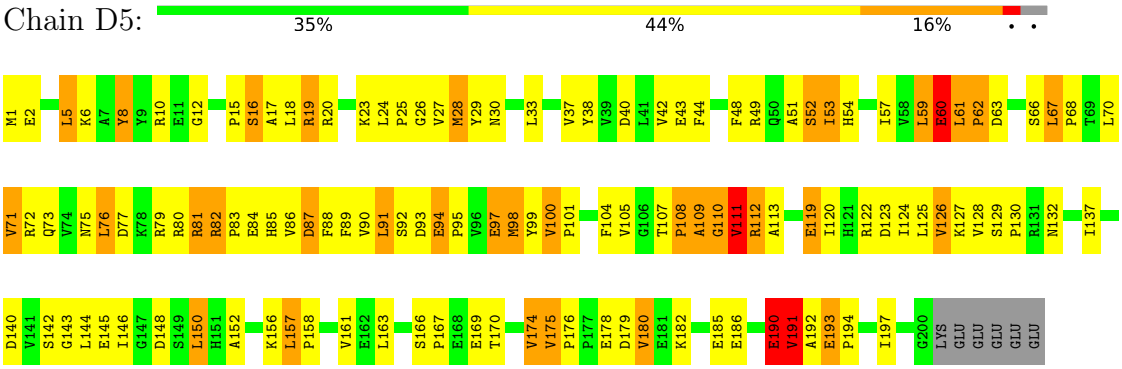
Chain H8:





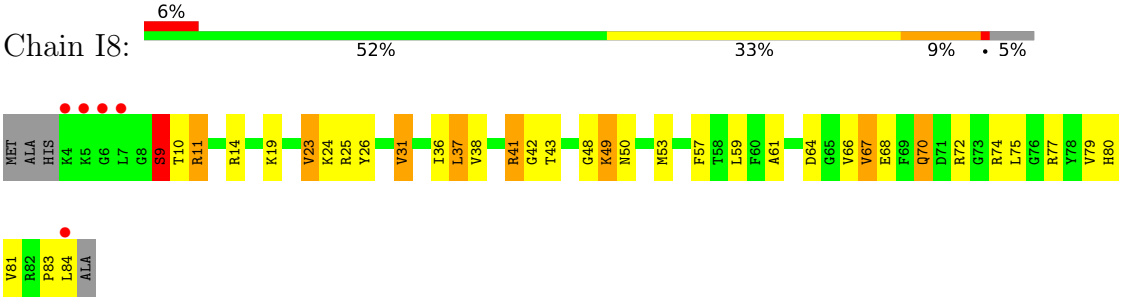
• Molecule 50: 50S ribosomal protein L25

Chain D5:



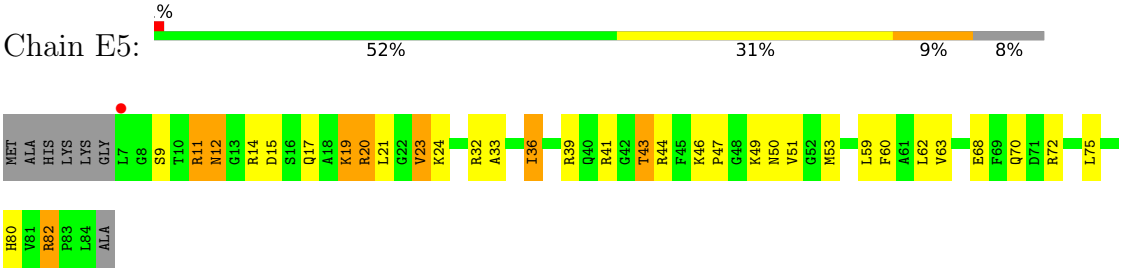
• Molecule 51: 50S ribosomal protein L27

Chain I8:



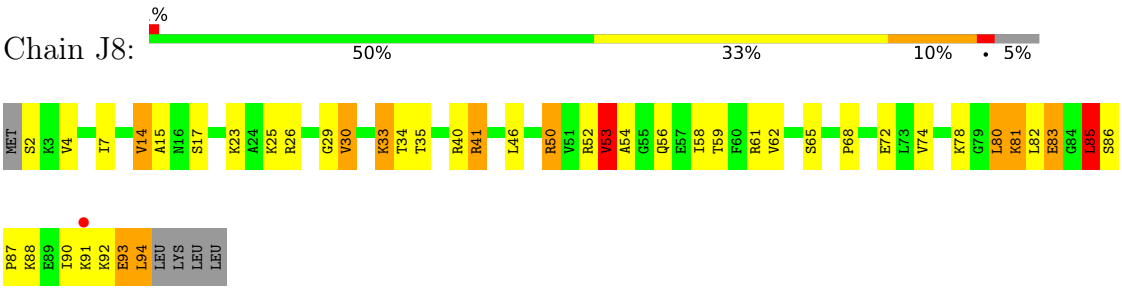
• Molecule 51: 50S ribosomal protein L27

Chain E5:



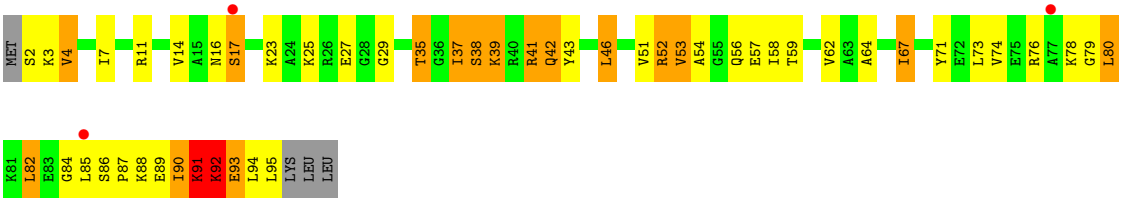
• Molecule 52: 50S ribosomal protein L28

Chain J8:



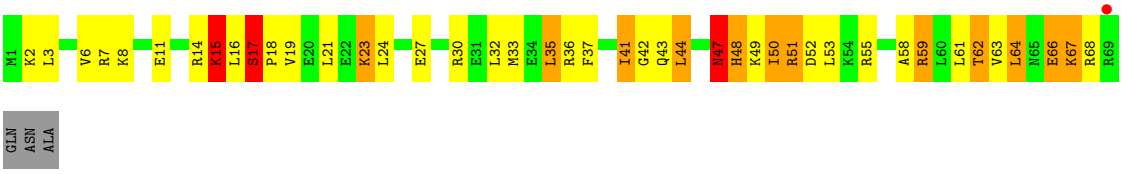
• Molecule 52: 50S ribosomal protein L28

Chain F5:



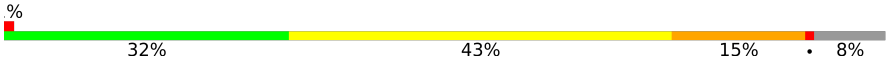
• Molecule 53: 50S ribosomal protein L29

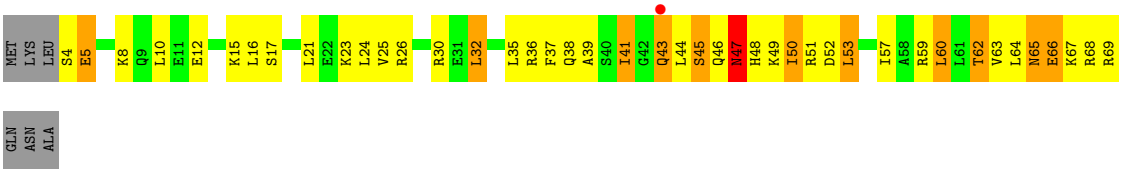
Chain K8:



• Molecule 53: 50S ribosomal protein L29

Chain G5:



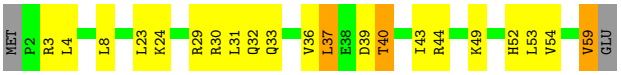


• Molecule 54: 50S ribosomal protein L30

Chain L8:

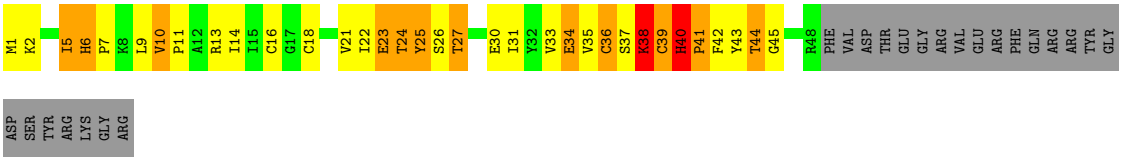
• Molecule 54: 50S ribosomal protein L30

Chain H5:



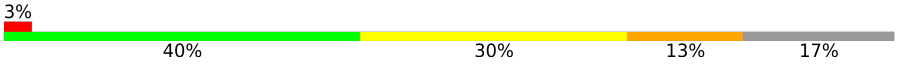
• Molecule 55: 50S ribosomal protein L31

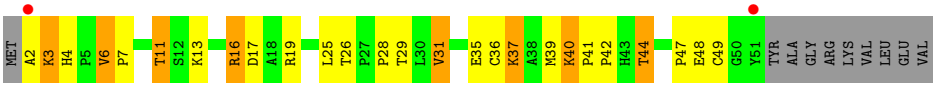
Chain M8:



• Molecule 56: 50S ribosomal protein L32

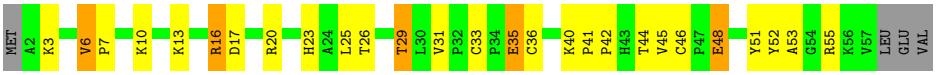
Chain N8:





• Molecule 56: 50S ribosomal protein L32

Chain J5:

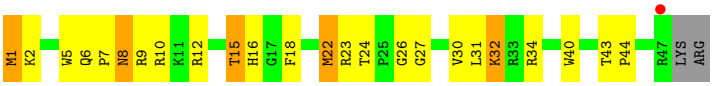


• Molecule 57: 50S ribosomal protein L33

Chain O8:

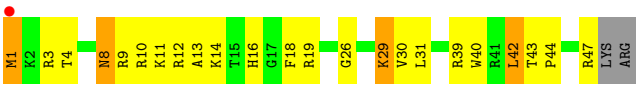
• Molecule 58: 50S ribosomal protein L34

Chain P8:



• Molecule 58: 50S ribosomal protein L34

Chain L5:

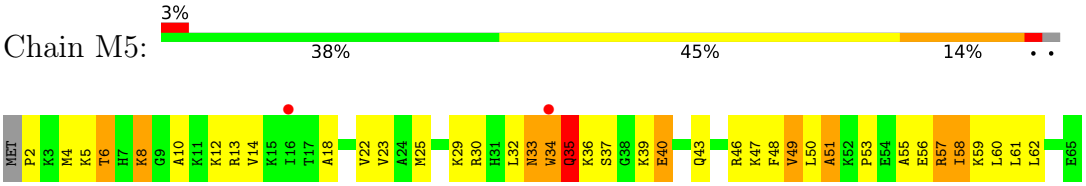


• Molecule 59: 50S ribosomal protein L35

Chain Q8:

• Molecule 59: 50S ribosomal protein L35

Chain M5:


3%
38%
45%
14%
MET P2 K3 M4 K5 T6 H7 K8 G9 A10 K11 K12 R13 V14 K15 I16 T17 A18 V22 V23 A24 M25 K29 R30 H31 L32 N33 W34 Q35 K36 S37 G38 K39 E40 Q43 R46 K47 F48 V49 L50 A51 K52 P53 E54 A55 E56 R57 I58 K59 L60 L61 L62 E65

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.05Å 449.39Å 618.66Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	153.44 – 3.16 153.44 – 3.16	Depositor EDS
% Data completeness (in resolution range)	100.0 (153.44-3.16) 88.4 (153.44-3.16)	Depositor EDS
R_{merge}	0.38	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.57 (at 3.13Å)	Xtriage
Refinement program	PHENIX 1.12_2829	Depositor
R, R_{free}	(Not available) , (Not available) 0.195 , 0.240	Depositor DCC
R_{free} test set	2000 reflections (0.20%)	wwPDB-VP
Wilson B-factor (Å^2)	90.7	Xtriage
Anisotropy	0.246	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.25 , 25.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	306138	wwPDB-VP
Average B, all atoms (Å^2)	112.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.45% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: 2MA, RSP, MG, OMC, ZN, 5MU, SF4, 4SU, PSU, 7MG

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	0.45	0/36375	0.70	15/56770 (0.0%)
1	1G	0.40	0/36309	0.63	3/56668 (0.0%)
2	12	0.45	0/1959	0.72	0/2642
2	1E	0.43	0/1908	0.74	1/2573 (0.0%)
3	22	0.39	0/1556	0.69	0/2098
3	2E	0.43	0/1629	0.72	0/2195
4	32	0.41	0/1732	0.72	2/2318 (0.1%)
4	3E	0.45	0/1720	0.72	0/2305
5	42	0.42	0/1171	0.68	0/1576
5	4E	0.43	0/1158	0.72	1/1559 (0.1%)
6	52	0.44	0/855	0.62	0/1154
6	5E	0.47	0/855	0.64	0/1154
7	62	0.41	0/1122	0.71	2/1500 (0.1%)
7	6E	0.38	0/1259	0.62	0/1686
8	72	0.34	0/1135	0.61	0/1527
8	7E	0.43	0/1135	0.69	0/1527
9	82	0.33	0/1002	0.62	0/1346
9	8E	0.38	0/1019	0.70	0/1367
10	1A	0.42	0/814	0.69	0/1095
10	1I	0.54	1/814 (0.1%)	0.84	3/1095 (0.3%)
11	2A	0.39	0/850	0.60	0/1150
11	2I	0.48	0/838	0.72	0/1133
12	3A	0.49	0/963	0.77	0/1290
12	3I	0.57	0/972	0.88	0/1301
13	4A	0.38	0/897	0.74	0/1204
13	4I	0.42	0/946	0.72	0/1270
14	5A	0.46	0/475	0.94	3/632 (0.5%)
14	5I	0.48	0/508	0.86	0/674
15	6A	0.39	0/740	0.62	0/987
15	6I	0.46	0/740	0.65	0/987
16	7A	0.40	0/721	0.69	0/970
16	7I	0.44	0/716	0.70	0/963

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	8A	0.42	0/836	0.64	0/1117
17	8I	0.47	0/847	0.70	0/1131
18	9A	0.47	0/549	0.78	0/732
18	9I	0.47	0/549	0.78	0/732
19	AA	0.40	0/490	0.78	2/662 (0.3%)
19	AI	0.52	0/657	0.92	0/885
20	BA	0.45	0/759	0.75	2/1000 (0.2%)
20	BI	0.45	1/753 (0.1%)	0.73	0/993
21	1B	0.38	0/212	0.71	0/277
21	1F	0.43	0/212	0.70	0/277
22	1K	0.53	3/1578 (0.2%)	0.67	2/2445 (0.1%)
22	1L	0.55	3/1623 (0.2%)	0.67	2/2517 (0.1%)
23	2K	0.50	1/1721 (0.1%)	0.70	0/2682
23	2L	0.43	0/1721	0.64	0/2682
24	3K	0.46	0/1741	0.66	0/2703
24	3L	0.45	0/1764	0.67	1/2741 (0.0%)
25	4K	0.50	0/521	0.75	0/812
25	4L	0.41	0/420	0.62	0/652
26	14	0.51	0/69830	0.74	14/109010 (0.0%)
26	1H	0.57	0/69835	0.80	27/109020 (0.0%)
27	16	0.46	0/2928	0.75	0/4568
27	1J	0.43	0/2928	0.70	0/4568
28	71	0.37	0/1066	0.60	0/1439
28	79	0.29	0/1031	0.59	0/1394
29	11	0.70	0/2170	1.05	12/2926 (0.4%)
29	19	0.61	0/2170	0.97	5/2926 (0.2%)
30	21	0.70	1/1591 (0.1%)	0.92	2/2146 (0.1%)
30	29	0.53	0/1591	0.92	4/2146 (0.2%)
31	31	0.59	0/1620	0.83	0/2194
31	39	0.50	0/1645	0.89	7/2228 (0.3%)
32	41	0.46	0/1481	0.75	0/1994
32	49	0.39	0/1481	0.67	0/1994
33	51	0.52	0/1337	1.00	7/1809 (0.4%)
33	59	0.47	0/1337	0.95	7/1809 (0.4%)
34	18	0.58	0/236	0.93	0/315
34	28	0.53	0/236	0.91	0/315
35	61	0.44	0/1146	0.83	5/1551 (0.3%)
35	69	0.45	0/1146	0.81	4/1551 (0.3%)
36	38	0.76	1/1104 (0.1%)	1.45	23/1494 (1.5%)
37	48	0.43	0/1067	0.99	5/1448 (0.3%)
38	15	0.57	1/1123 (0.1%)	0.72	1/1515 (0.1%)
38	58	0.51	0/1123	0.80	0/1514
39	25	0.50	0/942	0.79	0/1269

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
39	68	0.53	0/942	0.75	0/1269
40	35	0.59	0/1147	1.06	4/1525 (0.3%)
40	78	0.61	0/1139	1.03	3/1514 (0.2%)
41	45	0.58	1/1120 (0.1%)	0.95	4/1498 (0.3%)
41	88	0.63	0/1134	0.93	2/1519 (0.1%)
42	55	0.51	0/981	0.80	0/1312
42	98	0.51	0/981	0.82	0/1312
43	65	0.69	1/886 (0.1%)	0.90	4/1180 (0.3%)
43	A8	0.55	0/891	0.97	2/1187 (0.2%)
44	75	0.55	1/1129 (0.1%)	0.76	0/1509
44	B8	0.55	0/1146	0.83	0/1531
45	85	0.50	0/981	0.77	0/1306
45	C8	0.58	0/968	0.87	1/1289 (0.1%)
46	95	0.51	0/785	0.88	0/1052
46	D8	0.56	0/789	0.90	2/1057 (0.2%)
47	A5	0.54	0/897	0.77	0/1204
47	E8	0.57	0/901	0.75	0/1209
48	B5	0.55	0/752	0.84	2/1010 (0.2%)
48	F8	0.62	0/757	0.85	0/1017
49	C5	0.51	0/798	0.95	0/1071
49	G8	0.62	0/797	0.92	3/1068 (0.3%)
50	D5	0.46	0/1615	0.91	5/2191 (0.2%)
50	H8	0.61	1/1359 (0.1%)	0.84	1/1841 (0.1%)
51	E5	0.51	0/624	0.79	0/832
51	I8	0.68	0/638	0.97	0/851
52	F5	0.53	0/744	0.80	0/989
52	J8	0.57	0/736	0.86	2/978 (0.2%)
53	G5	0.52	0/560	0.85	0/741
53	K8	0.59	0/578	0.91	2/766 (0.3%)
54	H5	0.50	0/464	0.77	0/623
54	L8	0.51	0/464	0.74	0/623
55	M8	0.70	1/380 (0.3%)	0.97	3/514 (0.6%)
56	J5	0.58	0/448	0.77	0/606
56	N8	0.74	1/399 (0.3%)	0.87	0/541
57	O8	0.66	0/396	1.14	0/529
58	L5	0.63	0/417	0.87	0/550
58	P8	0.72	0/409	0.95	0/540
59	M5	0.76	1/524 (0.2%)	1.03	0/691
59	Q8	0.62	0/524	1.05	3/691 (0.4%)
All	All	0.51	19/325210 (0.0%)	0.76	205/486635 (0.0%)

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	3
2	1E	0	5
3	22	0	1
3	2E	0	1
4	32	0	4
4	3E	0	1
5	4E	0	1
9	8E	0	1
10	1I	0	1
12	3A	0	2
12	3I	0	3
13	4A	0	4
14	5I	0	1
18	9I	0	2
19	AA	0	2
19	AI	0	4
20	BA	0	4
20	BI	0	2
29	11	0	7
29	19	0	6
30	21	0	6
30	29	0	7
31	31	0	2
31	39	0	5
32	41	0	2
32	49	0	3
33	51	0	5
33	59	0	5
34	18	0	2
34	28	0	2
35	61	0	3
35	69	0	1
36	38	0	21
37	48	0	11
38	15	0	2
38	58	0	1
40	35	0	7
40	78	0	4
41	45	0	9
43	A8	0	1
44	75	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
45	85	0	2
45	C8	0	4
46	95	0	4
46	D8	0	2
48	F8	0	1
49	C5	0	8
49	G8	0	3
50	D5	0	10
50	H8	0	2
52	F5	0	2
52	J8	0	1
53	G5	0	3
53	K8	0	1
55	M8	0	3
57	O8	0	2
59	M5	0	4
59	Q8	0	1
All	All	0	208

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	21	109	LYS	C-N	16.35	1.41	1.33
50	H8	157	LEU	C-O	-15.96	1.16	1.23
43	65	88	ASP	CA-C	13.99	1.61	1.53
38	15	94	HIS	C-O	12.81	1.30	1.23
36	38	85	ASP	C-N	10.13	1.44	1.34
55	M8	40	HIS	C-O	-9.86	1.19	1.23
22	1K	35	I	C5-C6	7.63	1.54	1.39
22	1L	35	I	N3-C4	7.08	1.50	1.35
56	N8	4	HIS	C-O	-7.00	1.20	1.23
59	M5	33	ASN	CA-C	-6.88	1.43	1.52
22	1L	35	I	C5-C6	6.77	1.52	1.39
22	1K	35	I	N3-C4	6.47	1.48	1.35
20	BI	46	GLU	CA-C	5.40	1.60	1.52
22	1L	35	I	C2-N3	5.38	1.46	1.35
10	1I	100	THR	CA-CB	5.31	1.62	1.53
41	45	71	ASP	C-N	5.30	1.42	1.33
23	2K	8	4SU	O3'-P	5.21	1.61	1.56
22	1K	35	I	C2-N3	5.14	1.46	1.35
44	75	106	SER	CA-CB	5.03	1.70	1.53

All (205) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	11	40	THR	N-CA-C	11.86	125.66	110.24
33	51	153	LYS	CA-C-N	9.02	148.64	127.00
33	51	153	LYS	C-N-CA	9.02	148.64	127.00
41	45	82	ARG	N-CA-C	8.97	125.77	113.21
29	11	39	LYS	N-CA-C	8.68	129.29	110.80
30	29	2	LYS	N-CA-C	8.62	121.00	110.91
50	D5	191	VAL	CA-C-N	8.35	137.49	121.54
50	D5	191	VAL	C-N-CA	8.35	137.49	121.54
26	14	1992	G	C2'-C3'-O3'	8.19	121.78	109.50
33	51	153	LYS	C-N-CD	-8.15	102.68	120.60
41	45	81	VAL	N-CA-C	8.02	126.02	109.34
26	1H	752	A	C2'-C3'-O3'	7.97	121.46	109.50
10	1I	55	LYS	CA-C-N	-7.97	109.64	122.62
10	1I	55	LYS	C-N-CA	-7.97	109.64	122.62
49	G8	99	CYS	N-CA-C	7.81	123.10	108.65
36	38	28	ASN	CA-C-N	7.61	136.08	121.54
36	38	28	ASN	C-N-CA	7.61	136.08	121.54
1	13	422	C	C2'-C3'-O3'	7.58	120.87	109.50
59	Q8	47	LYS	N-CA-C	-7.52	89.94	111.00
36	38	134	LEU	CA-CB-CG	7.36	142.05	116.30
46	D8	43	GLU	CA-C-N	7.31	135.51	121.54
46	D8	43	GLU	C-N-CA	7.31	135.51	121.54
59	Q8	46	ARG	CA-C-N	7.27	134.78	121.70
59	Q8	46	ARG	C-N-CA	7.27	134.78	121.70
40	35	46	LYS	CA-C-N	-7.25	104.10	121.80
40	35	46	LYS	C-N-CA	-7.25	104.10	121.80
26	1H	1992	G	C2'-C3'-O3'	7.17	120.25	109.50
7	62	141	VAL	CA-C-N	7.08	134.45	121.70
7	62	141	VAL	C-N-CA	7.08	134.45	121.70
26	1H	271(B)	G	P-O3'-C3'	7.06	128.18	119.70
33	59	88	LEU	CA-C-N	-7.05	115.69	123.16
33	59	88	LEU	C-N-CA	-7.05	115.69	123.16
40	78	42	SER	CA-C-N	-7.01	102.14	122.46
40	78	42	SER	C-N-CA	-7.01	102.14	122.46
43	65	88	ASP	O-C-N	6.92	126.66	121.47
14	5A	5	ALA	CA-C-N	6.90	134.12	121.70
14	5A	5	ALA	C-N-CA	6.90	134.12	121.70
41	45	71	ASP	CA-C-N	6.88	130.82	121.20
41	45	71	ASP	C-N-CA	6.88	130.82	121.20
36	38	26	LEU	CA-C-N	6.86	134.32	121.97
36	38	26	LEU	C-N-CA	6.86	134.32	121.97
1	13	1498	U	C2'-C3'-O3'	6.77	119.66	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	38	67	GLY	CA-C-N	6.69	133.13	122.56
36	38	67	GLY	C-N-CA	6.69	133.13	122.56
30	29	64	LYS	N-CA-C	-6.67	105.25	113.19
1	13	422	C	P-O3'-C3'	6.62	130.13	120.20
40	35	35	HIS	CA-C-N	6.60	134.14	121.54
40	35	35	HIS	C-N-CA	6.60	134.14	121.54
26	14	2275	C	P-O3'-C3'	6.53	129.99	120.20
31	39	27	GLU	CA-C-N	6.50	133.66	121.97
31	39	27	GLU	C-N-CA	6.50	133.66	121.97
33	59	152	ARG	CA-C-N	6.49	137.64	121.80
33	59	152	ARG	C-N-CA	6.49	137.64	121.80
36	38	72	ASP	N-CA-C	6.47	124.57	110.80
26	14	1819	A	C4'-C3'-O3'	6.46	119.09	109.40
36	38	29	TYR	N-CA-C	6.29	124.20	110.80
5	4E	67	VAL	N-CA-C	6.29	116.10	108.06
33	59	99	VAL	N-CA-C	6.27	122.39	109.34
29	11	235	GLY	N-CA-C	6.26	119.91	112.33
36	38	68	LEU	N-CA-C	-6.25	102.50	108.13
36	38	71	LEU	N-CA-C	6.22	116.64	107.88
37	48	143	GLU	CA-C-N	6.21	133.15	121.97
37	48	143	GLU	C-N-CA	6.21	133.15	121.97
35	61	131	LYS	CA-C-N	6.20	141.87	127.00
35	61	131	LYS	C-N-CA	6.20	141.87	127.00
29	11	37	LEU	CA-CB-CG	-6.19	94.64	116.30
35	61	131	LYS	C-N-CD	-6.17	107.03	120.60
36	38	43	ALA	CA-C-N	6.14	133.26	121.54
36	38	43	ALA	C-N-CA	6.14	133.26	121.54
30	21	117	MET	CA-C-N	6.13	133.26	121.54
30	21	117	MET	C-N-CA	6.13	133.26	121.54
29	11	40	THR	CB-CA-C	-6.12	98.81	109.64
36	38	119	ALA	CA-C-N	6.10	133.19	121.54
36	38	119	ALA	C-N-CA	6.10	133.19	121.54
26	1H	802	A	OP1-P-O3'	-6.10	89.71	108.00
31	39	67	GLN	CA-C-N	-6.08	111.51	122.46
31	39	67	GLN	C-N-CA	-6.08	111.51	122.46
31	39	68	LYS	CA-C-N	-6.08	111.48	122.54
31	39	68	LYS	C-N-CA	-6.08	111.48	122.54
26	14	1022	G	C2'-C3'-O3'	6.05	118.58	109.50
26	14	1342	A	N9-C1'-C2'	6.03	123.05	114.00
26	1H	2346	A	O4'-C1'-N9	6.03	117.25	108.20
26	1H	1786	A	N9-C1'-C2'	6.00	122.99	114.00
26	1H	2439	A	P-O3'-C3'	6.00	129.19	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	13	1065	U	C2'-C3'-O3'	5.99	118.48	109.50
26	1H	2157	G	C2'-C3'-O3'	5.95	118.43	109.50
35	61	110	ASP	CA-C-N	5.92	141.22	127.00
35	61	110	ASP	C-N-CA	5.92	141.22	127.00
43	65	88	ASP	CA-C-N	5.92	132.86	121.54
43	65	88	ASP	C-N-CA	5.92	132.86	121.54
35	69	131	LYS	CA-C-N	5.92	141.21	127.00
35	69	131	LYS	C-N-CA	5.92	141.21	127.00
33	59	85	LYS	CA-C-N	5.92	132.84	121.54
33	59	85	LYS	C-N-CA	5.92	132.84	121.54
26	1H	945	A	N9-C1'-C2'	5.90	122.84	114.00
36	38	67	GLY	N-CA-C	5.86	127.07	113.18
37	48	121	GLU	CA-C-N	5.83	132.68	121.54
37	48	121	GLU	C-N-CA	5.83	132.68	121.54
26	1H	222	A	C2'-C3'-O3'	5.83	118.24	109.50
26	1H	752	A	P-O3'-C3'	5.81	128.91	120.20
40	78	22	GLY	N-CA-C	5.80	124.18	112.34
26	1H	2157	G	P-O3'-C3'	5.80	128.90	120.20
1	13	792	A	O4'-C1'-N9	5.79	116.89	108.20
36	38	70	GLU	CA-C-N	-5.77	112.19	122.45
36	38	70	GLU	C-N-CA	-5.77	112.19	122.45
43	A8	37	ALA	N-CA-C	5.73	117.38	107.93
26	14	49	A	P-O3'-C3'	5.70	128.75	120.20
1	13	687	A	P-O3'-C3'	5.70	128.75	120.20
36	38	118	THR	CA-C-N	5.70	132.43	121.54
36	38	118	THR	C-N-CA	5.70	132.43	121.54
50	D5	190	GLU	CA-C-N	5.70	132.22	121.97
50	D5	190	GLU	C-N-CA	5.70	132.22	121.97
29	11	13	ARG	CA-C-N	5.68	128.67	120.38
29	11	13	ARG	C-N-CA	5.68	128.67	120.38
26	1H	1653	G	C2'-C3'-O3'	5.66	117.99	109.50
26	1H	945	A	C4-N9-C1'	5.62	143.16	126.30
1	13	690	G	C4-N9-C1'	5.62	143.35	126.50
31	39	28	ILE	N-CA-C	5.60	120.99	109.34
1	13	509	A	C2'-C3'-O3'	5.60	122.10	113.70
29	11	235	GLY	CA-C-N	5.57	131.79	122.16
29	11	235	GLY	C-N-CA	5.57	131.79	122.16
24	3L	34	U	P-O3'-C3'	5.57	128.55	120.20
1	13	690	G	O4'-C1'-N9	5.55	116.82	108.50
20	BA	73	HIS	CA-C-N	5.53	132.10	121.54
20	BA	73	HIS	C-N-CA	5.53	132.10	121.54
35	69	131	LYS	C-N-CD	-5.53	108.44	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	G8	54	LYS	CA-C-N	5.50	135.22	121.80
49	G8	54	LYS	C-N-CA	5.50	135.22	121.80
35	69	112	LYS	N-CA-C	-5.49	106.95	113.38
30	29	51	PHE	N-CA-C	5.47	122.46	110.80
26	1H	577	G	O5'-P-OP1	5.47	124.40	108.00
38	15	94	HIS	O-C-N	-5.46	119.02	121.53
50	D5	191	VAL	N-CA-C	5.45	120.67	109.34
1	1G	197	A	P-O3'-C3'	5.45	128.37	120.20
26	1H	222	A	P-O3'-C3'	5.44	128.36	120.20
26	1H	1558	A	P-O3'-C3'	5.44	128.35	120.20
4	32	148	VAL	CA-C-N	5.43	131.91	121.54
4	32	148	VAL	C-N-CA	5.43	131.91	121.54
36	38	54	ALA	N-CA-C	5.42	122.35	110.80
26	1H	271(B)	G	C2'-C3'-O3'	5.42	117.62	109.50
29	11	30	GLU	N-CA-C	-5.41	100.85	109.07
26	14	1786	A	N9-C1'-C2'	5.38	122.08	114.00
29	19	68	LYS	CA-C-N	-5.37	111.11	121.58
29	19	68	LYS	C-N-CA	-5.37	111.11	121.58
10	1I	86	MET	N-CA-C	-5.37	106.04	113.18
43	A8	110	LEU	CA-CB-CG	5.36	135.05	116.30
29	19	238	GLY	N-CA-C	-5.35	100.49	113.18
37	48	77	LEU	CA-C-O	5.34	127.46	119.23
41	88	104	PHE	N-CA-C	5.33	122.15	110.80
30	29	44	TYR	N-CA-C	5.30	121.53	112.99
33	51	12	PRO	CA-C-N	5.30	131.66	121.54
33	51	12	PRO	C-N-CA	5.30	131.66	121.54
45	C8	96	ALA	N-CA-C	-5.29	107.36	112.97
19	AA	5	LEU	CA-C-N	5.29	131.21	121.70
19	AA	5	LEU	C-N-CA	5.29	131.21	121.70
26	14	2275	C	C4'-C3'-O3'	5.29	117.33	109.40
29	19	49	ILE	CA-CB-CG2	5.29	119.48	110.50
33	51	10	PRO	N-CA-C	5.28	123.35	112.47
26	14	71	A	C4'-C3'-O3'	5.27	117.30	109.40
1	13	792	A	N9-C1'-C2'	5.26	121.89	114.00
1	13	792	A	C3'-C2'-C1'	-5.26	96.24	101.50
29	11	39	LYS	CA-C-N	5.25	128.54	120.82
29	11	39	LYS	C-N-CA	5.25	128.54	120.82
36	38	66	LEU	N-CA-CB	-5.25	108.19	114.17
1	13	49	U	C2'-C3'-O3'	5.24	117.36	109.50
53	K8	15	LYS	CA-C-N	5.23	128.65	121.33
53	K8	15	LYS	C-N-CA	5.23	128.65	121.33
26	14	2776	A	P-O3'-C3'	5.22	128.03	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	1H	1799	G	C2'-C3'-O3'	5.21	117.32	109.50
33	51	11	VAL	N-CA-C	5.21	120.12	108.88
55	M8	38	LYS	N-CA-C	-5.20	105.65	112.72
14	5A	29	ARG	N-CA-C	5.20	116.99	110.91
26	14	512	G	C5'-C4'-C3'	-5.19	107.42	115.20
52	J8	85	LEU	CA-C-N	5.18	126.22	120.06
52	J8	85	LEU	C-N-CA	5.18	126.22	120.06
1	13	84	U	C4'-C3'-O3'	5.17	120.76	113.00
26	1H	974(A)	C	C4'-C3'-O3'	5.17	117.16	109.40
22	1L	35	I	C1'-N9-C4	-5.17	110.48	126.00
26	14	784	A	P-O3'-C3'	5.17	127.96	120.20
1	13	49	U	P-O3'-C3'	5.17	127.95	120.20
1	1G	509	A	C4'-C3'-O3'	5.17	120.75	113.00
41	88	84	GLY	N-CA-C	-5.16	102.78	112.22
1	13	690	G	C8-N9-C1'	-5.15	111.56	127.00
48	B5	40	LYS	CA-C-N	-5.15	111.71	121.54
48	B5	40	LYS	C-N-CA	-5.15	111.71	121.54
26	1H	2598	A	O5'-P-OP2	5.14	123.43	108.00
22	1L	35	I	C1'-N9-C8	5.13	141.39	126.00
43	65	110	LEU	CA-CB-CG	5.11	134.20	116.30
36	38	44	LEU	CA-CB-CG	5.11	134.18	116.30
26	14	752	A	C2'-C3'-O3'	5.09	117.14	109.50
1	1G	266	G	C2'-C3'-O3'	5.08	117.13	109.50
22	1K	35	I	C1'-N9-C4	-5.08	110.75	126.00
50	H8	59	LEU	CA-CB-CG	5.08	134.08	116.30
55	M8	5	ILE	CA-C-N	5.08	134.19	121.80
55	M8	5	ILE	C-N-CA	5.08	134.19	121.80
26	1H	945	A	C8-N9-C1'	-5.06	112.51	127.70
26	1H	2346	A	N9-C1'-C2'	5.05	121.58	114.00
26	1H	1204	A	O4'-C1'-N9	5.04	115.77	108.20
26	1H	70	G	P-O3'-C3'	5.04	127.76	120.20
26	14	49	A	C4'-C3'-O3'	5.04	116.95	109.40
22	1K	35	I	C1'-N9-C8	5.02	141.07	126.00
2	1E	187	LEU	CA-CB-CG	5.02	133.87	116.30
26	1H	1617	C	C2'-C3'-O3'	-5.02	101.97	109.50
29	19	30	GLU	CA-CB-CG	-5.01	104.09	114.10
26	1H	2476	A	C4'-C3'-O3'	5.00	120.51	113.00

There are no chirality outliers.

All (208) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
29	11	122	ASP	Peptide
29	11	197	GLY	Peptide
29	11	236	GLY	Peptide
29	11	237	GLU	Peptide
29	11	272	ALA	Peptide
29	11	28	GLU	Peptide
29	11	29	PRO	Peptide
2	12	19	HIS	Peptide
2	12	231	GLU	Peptide
2	12	7	VAL	Peptide
38	15	124	ALA	Peptide
38	15	41	ASP	Peptide
34	18	25	ASP	Peptide
34	18	8	ILE	Peptide
29	19	197	GLY	Peptide
29	19	236	GLY	Peptide
29	19	237	GLU	Peptide
29	19	27	THR	Peptide
29	19	272	ALA	Peptide
29	19	28	GLU	Peptide
2	1E	11	LEU	Peptide
2	1E	19	HIS	Peptide
2	1E	230	VAL	Peptide
2	1E	234	PRO	Peptide
2	1E	236	TYR	Peptide
10	1I	56	HIS	Peptide
30	21	130	GLY	Peptide
30	21	64	LYS	Peptide
30	21	67	PHE	Peptide
30	21	71	GLY	Peptide
30	21	77	ILE	Peptide
30	21	78	LEU	Peptide
3	22	143	GLU	Peptide
34	28	11	GLU	Peptide
34	28	25	ASP	Peptide
30	29	117	MET	Peptide
30	29	132	HIS	Peptide
30	29	201	THR	Peptide
30	29	53	PRO	Peptide
30	29	54	GLN	Peptide
30	29	61	ARG	Peptide
30	29	89	ASP	Peptide
3	2E	166	GLU	Peptide

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Mol	Chain	Res	Type	Group
31	31	12	LEU	Peptide
31	31	198	ALA	Peptide
4	32	152	SER	Peptide
4	32	208	SER	Peptide
4	32	27	TYR	Peptide
4	32	32	ALA	Peptide
40	35	110	TYR	Peptide
40	35	14	LYS	Peptide
40	35	18	ARG	Peptide
40	35	35	HIS	Peptide
40	35	6	LEU	Peptide
40	35	65	ARG	Peptide
40	35	66	GLY	Peptide
36	38	104	ILE	Peptide
36	38	107	VAL	Peptide
36	38	119	ALA	Peptide
36	38	20	ALA	Peptide
36	38	25	PHE	Peptide
36	38	32	LEU	Peptide
36	38	35	LYS	Peptide
36	38	36	GLU	Peptide
36	38	37	THR	Peptide
36	38	38	HIS	Peptide
36	38	39	ALA	Peptide
36	38	44	LEU	Peptide
36	38	46	GLN	Peptide
36	38	53	VAL	Peptide
36	38	62	ALA	Peptide
36	38	67	GLY	Peptide
36	38	69	PRO	Peptide
36	38	71	LEU	Peptide
36	38	80	VAL	Peptide
36	38	88	ALA	Peptide
36	38	99	SER	Peptide
31	39	24	LEU	Peptide
31	39	25	PRO	Peptide
31	39	26	ALA	Peptide
31	39	27	GLU	Peptide
31	39	89	VAL	Peptide
12	3A	104	VAL	Peptide
12	3A	46	LYS	Peptide
4	3E	82	ALA	Peptide

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Mol	Chain	Res	Type	Group
12	3I	104	VAL	Peptide
12	3I	118	SER	Peptide
12	3I	87	GLY	Peptide
32	41	36	LYS	Peptide
32	41	95	ARG	Peptide
41	45	134	ARG	Peptide
41	45	135	ASP	Peptide
41	45	137	TYR	Peptide
41	45	22	LYS	Peptide
41	45	26	TYR	Peptide
41	45	27	VAL	Peptide
41	45	30	GLY	Peptide
41	45	80	GLU	Peptide
41	45	82	ARG	Peptide
37	48	108	ALA	Peptide
37	48	114	ASP	Peptide
37	48	119	ASP	Peptide
37	48	120	LEU	Peptide
37	48	137	GLU	Peptide
37	48	143	GLU	Peptide
37	48	37	PHE	Peptide
37	48	50	ASP	Peptide
37	48	62	ASP	Peptide
37	48	85	GLU	Peptide
37	48	90	LYS	Peptide
32	49	106	LEU	Peptide
32	49	116	ASP	Peptide
32	49	4	ASP	Peptide
13	4A	105	THR	Peptide
13	4A	115	LYS	Peptide
13	4A	79	LYS	Peptide
13	4A	83	ASP	Peptide
5	4E	114	GLY	Peptide
33	51	12	PRO	Peptide
33	51	137	ASP	Peptide
33	51	152	ARG	Peptide
33	51	155	SER	Peptide
33	51	168	PRO	Peptide
38	58	56	ASN	Peptide
33	59	100	GLY	Peptide
33	59	125	VAL	Peptide
33	59	151	ILE	Peptide

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Mol	Chain	Res	Type	Group
33	59	168	PRO	Peptide
33	59	83	TYR	Peptide
14	5I	3	ARG	Peptide
35	61	11	ASN	Peptide
35	61	133	HIS	Peptide
35	61	134	PRO	Peptide
35	69	132	PRO	Peptide
44	75	12	SER	Peptide
40	78	11	GLY	Peptide
40	78	115	LEU	Peptide
40	78	14	LYS	Peptide
40	78	70	GLN	Peptide
45	85	95	LEU	Peptide
45	85	98	LEU	Peptide
9	8E	59	PHE	Peptide
46	95	49	THR	Peptide
46	95	77	ALA	Peptide
46	95	97	LYS	Peptide
46	95	98	GLU	Peptide
18	9I	21	LYS	Peptide
18	9I	33	ASP	Peptide
43	A8	109	GLY	Peptide
19	AA	65	ASN	Peptide
19	AA	9	VAL	Peptide
19	AI	6	LYS	Peptide
19	AI	7	LYS	Peptide
19	AI	78	ARG	Peptide
19	AI	8	GLY	Peptide
20	BA	11	SER	Peptide
20	BA	72	LEU	Peptide
20	BA	73	HIS	Peptide
20	BA	74	LYS	Peptide
20	BI	12	ALA	Peptide
20	BI	94	ALA	Peptide
49	C5	101	LYS	Peptide
49	C5	28	LYS	Peptide
49	C5	42	VAL	Peptide
49	C5	53	PRO	Peptide
49	C5	57	GLN	Peptide
49	C5	58	GLY	Peptide
49	C5	82	PRO	Peptide
49	C5	91	GLU	Peptide

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Mol	Chain	Res	Type	Group
45	C8	75	ASN	Peptide
45	C8	92	ARG	Peptide
45	C8	95	LEU	Peptide
45	C8	96	ALA	Peptide
50	D5	110	GLY	Peptide
50	D5	111	VAL	Peptide
50	D5	12	GLY	Peptide
50	D5	140	ASP	Peptide
50	D5	179	ASP	Peptide
50	D5	190	GLU	Peptide
50	D5	192	ALA	Peptide
50	D5	52	SER	Peptide
50	D5	60	GLU	Peptide
50	D5	62	PRO	Peptide
46	D8	43	GLU	Peptide
46	D8	49	THR	Peptide
52	F5	53	VAL	Peptide
52	F5	91	LYS	Peptide
48	F8	3	THR	Peptide
53	G5	17	SER	Peptide
53	G5	43	GLN	Peptide
53	G5	45	SER	Peptide
49	G8	101	LYS	Peptide
49	G8	84	ARG	Peptide
49	G8	89	PHE	Peptide
50	H8	158	PRO	Peptide
50	H8	60	GLU	Peptide
52	J8	53	VAL	Peptide
53	K8	17	SER	Peptide
59	M5	35	GLN	Peptide
59	M5	40	GLU	Peptide
59	M5	49	VAL	Peptide
59	M5	51	ALA	Peptide
55	M8	40	HIS	Peptide
55	M8	41	PRO	Peptide
55	M8	44	THR	Peptide
57	O8	31	PRO	Peptide
57	O8	44	ARG	Peptide
59	Q8	35	GLN	Peptide

5.2 Too-close contacts (i)

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	32497	0	16403	886	0
1	1G	32437	0	16372	865	0
2	12	1924	0	1975	134	0
2	1E	1874	0	1926	121	0
3	22	1533	0	1595	80	0
3	2E	1605	0	1668	57	0
4	32	1702	0	1765	100	0
4	3E	1690	0	1737	84	0
5	42	1155	0	1213	58	0
5	4E	1142	0	1204	51	0
6	52	842	0	857	35	0
6	5E	842	0	857	34	0
7	62	1110	0	1163	68	0
7	6E	1242	0	1286	54	0
8	72	1115	0	1177	55	0
8	7E	1115	0	1177	69	0
9	82	983	0	1006	71	0
9	8E	1000	0	1031	65	0
10	1A	801	0	849	87	0
10	1I	801	0	848	56	0
11	2A	835	0	847	40	0
11	2I	823	0	833	44	0
12	3A	947	0	1033	65	0
12	3I	956	0	1046	58	0
13	4A	887	0	935	67	0
13	4I	936	0	986	53	0
14	5A	466	0	499	32	0
14	5I	499	0	542	36	0
15	6A	729	0	768	32	0
15	6I	729	0	768	27	0
16	7A	705	0	725	29	0
16	7I	700	0	720	54	0
17	8A	823	0	891	37	0
17	8I	834	0	904	65	0
18	9A	544	0	605	21	0
18	9I	544	0	605	39	0
19	AA	481	0	468	28	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	AI	643	0	662	34	0
20	BA	757	0	856	50	0
20	BI	751	0	848	55	0
21	1B	208	0	221	21	0
21	1F	208	0	221	9	0
22	1K	1544	0	791	49	0
22	1L	1584	0	811	49	0
23	2K	1646	0	845	40	0
23	2L	1646	0	845	39	0
24	3K	1561	0	796	51	0
24	3L	1581	0	805	63	0
25	4K	462	0	229	12	0
25	4L	374	0	187	10	0
26	14	62347	0	31431	1550	0
26	1H	62351	0	31424	1627	0
27	16	2617	0	1328	74	0
27	1J	2617	0	1328	90	0
28	71	1043	0	1066	45	0
28	79	1010	0	1025	52	0
29	11	2120	0	2196	120	0
29	19	2120	0	2197	106	0
30	21	1558	0	1624	98	0
30	29	1558	0	1624	100	0
31	31	1585	0	1632	92	0
31	39	1610	0	1655	132	0
32	41	1457	0	1514	92	0
32	49	1457	0	1514	89	0
33	51	1312	0	1384	77	0
33	59	1312	0	1384	107	0
34	18	237	0	257	23	0
34	28	237	0	257	21	0
35	61	1131	0	1218	46	0
35	69	1131	0	1218	69	0
36	38	1089	0	1149	110	0
37	48	1047	0	1082	93	0
38	15	1096	0	1168	40	0
38	58	1096	0	1169	62	0
39	25	932	0	996	53	0
39	68	932	0	996	32	0
40	35	1130	0	1217	113	0
40	78	1122	0	1206	97	0
41	45	1099	0	1152	92	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	88	1113	0	1157	61	0
42	55	967	0	1033	38	0
42	98	967	0	1033	47	0
43	65	876	0	938	88	0
43	A8	881	0	943	46	0
44	75	1115	0	1169	67	0
44	B8	1132	0	1189	72	0
45	85	963	0	1022	70	0
45	C8	950	0	1011	53	0
46	95	774	0	849	63	0
46	D8	778	0	852	40	1
47	A5	886	0	948	34	0
47	E8	890	0	951	25	0
48	B5	738	0	792	47	0
48	F8	743	0	794	40	0
49	C5	785	0	844	64	0
49	G8	784	0	853	46	0
50	D5	1582	0	1613	86	0
50	H8	1330	0	1360	77	0
51	E5	616	0	633	38	0
51	I8	630	0	640	28	0
52	F5	737	0	813	50	0
52	J8	729	0	802	31	0
53	G5	558	0	610	32	0
53	K8	576	0	628	46	0
54	H5	459	0	512	13	0
54	L8	459	0	512	20	0
55	M8	371	0	372	36	0
56	J5	434	0	454	18	0
56	N8	386	0	402	31	0
57	O8	389	0	404	33	0
58	L5	409	0	454	19	0
58	P8	401	0	436	22	0
59	M5	516	0	582	30	0
59	Q8	516	0	582	38	0
60	11	6	0	0	0	0
60	13	227	0	0	0	0
60	14	607	0	0	0	0
60	16	20	0	0	0	0
60	1G	167	0	0	0	0
60	1H	669	0	0	0	0
60	1J	8	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	1K	2	0	0	0	0
60	1L	1	0	0	0	0
60	21	2	0	0	0	0
60	25	2	0	0	0	0
60	29	5	0	0	0	0
60	2A	1	0	0	0	0
60	2K	7	0	0	0	0
60	2L	2	0	0	0	0
60	31	2	0	0	0	0
60	32	2	0	0	0	0
60	35	1	0	0	0	0
60	39	2	0	0	0	0
60	3E	2	0	0	0	0
60	41	1	0	0	0	0
60	45	2	0	0	0	0
60	4K	1	0	0	0	0
60	4L	2	0	0	0	0
60	52	1	0	0	0	0
60	55	2	0	0	0	0
60	5E	2	0	0	0	0
60	6I	1	0	0	0	0
60	75	1	0	0	0	0
60	78	1	0	0	0	0
60	88	4	0	0	0	0
60	98	2	0	0	0	0
60	C5	1	0	0	0	0
60	E5	1	0	0	0	0
60	F5	1	0	0	0	0
60	I8	2	0	0	0	0
60	M5	1	0	0	0	0
60	N8	1	0	0	0	0
60	P8	1	0	0	0	0
60	Q8	1	0	0	0	0
61	32	8	0	0	2	0
61	3E	8	0	0	2	0
62	5A	1	0	0	0	0
62	5I	1	0	0	0	0
63	11	12	0	0	3	0
63	13	544	0	0	91	0
63	14	1520	0	0	275	0
63	15	1	0	0	0	0
63	16	42	0	0	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
63	19	12	0	0	4	0
63	1E	1	0	0	0	0
63	1F	1	0	0	0	0
63	1G	397	0	0	60	0
63	1H	1966	0	0	358	2
63	1I	1	0	0	0	0
63	1J	23	0	0	3	0
63	1K	1	0	0	0	0
63	21	9	0	0	2	0
63	25	13	0	0	1	0
63	29	9	0	0	2	0
63	2K	16	0	0	5	0
63	2L	7	0	0	0	0
63	31	8	0	0	0	0
63	32	5	0	0	0	0
63	35	5	0	0	1	0
63	39	8	0	0	1	0
63	3A	2	0	0	0	0
63	3E	1	0	0	0	0
63	3I	5	0	0	0	0
63	42	1	0	0	0	0
63	45	4	0	0	0	0
63	4E	2	0	0	0	0
63	4K	13	0	0	0	0
63	4L	8	0	0	1	0
63	52	4	0	0	1	0
63	58	3	0	0	0	0
63	5A	1	0	0	0	0
63	5I	3	0	0	2	0
63	6A	1	0	0	0	0
63	6I	4	0	0	0	0
63	78	10	0	0	4	0
63	7A	2	0	0	0	0
63	85	4	0	0	0	0
63	88	7	0	0	0	0
63	8E	1	0	0	0	0
63	98	1	0	0	0	0
63	9A	2	0	0	0	0
63	A5	1	0	0	0	0
63	A8	2	0	0	0	0
63	B5	1	0	0	0	0
63	B8	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
63	BA	2	0	0	0	0
63	BI	1	0	0	0	0
63	C5	1	0	0	0	0
63	C8	7	0	0	0	1
63	D8	1	0	0	0	0
63	E5	3	0	0	0	0
63	F5	6	0	0	1	0
63	F8	1	0	0	0	0
63	G8	3	0	0	0	0
63	I8	5	0	0	1	0
63	J8	10	0	0	2	0
63	L5	2	0	0	0	0
63	L8	4	0	0	2	0
63	M5	9	0	0	0	0
63	P8	1	0	0	0	0
63	Q8	7	0	0	0	0
All	All	306138	0	202999	9914	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 20.

All (9914) 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)
26:1H:1268:A:OP1	63:1H:3723:HOH:O	1.66	1.12
26:14:1604:C:OP2	63:14:3715:HOH:O	1.65	1.11
26:1H:2032:G:H21	30:21:146:THR:HG23	1.17	1.07
26:1H:2711:A:OP2	63:1H:3724:HOH:O	1.71	1.06
26:14:1603:A:OP1	63:14:3715:HOH:O	1.74	1.05
26:1H:2575:C:OP2	63:1H:3725:HOH:O	1.76	1.04
34:18:17:VAL:HG12	34:18:21:LYS:HE3	1.34	1.04
26:14:2499:C:OP2	63:14:3716:HOH:O	1.76	1.03
26:1H:2714:G:OP2	63:1H:3724:HOH:O	1.76	1.02
34:18:17:VAL:CG1	34:18:21:LYS:HE3	1.89	1.02
26:1H:804:A:OP1	63:1H:3727:HOH:O	1.77	1.02
26:1H:1771:C:HO2'	26:1H:1786:A:H8	1.07	1.01
26:14:576:U:OP1	63:14:3717:HOH:O	1.78	1.01
50:H8:5:LEU:H	50:H8:59:LEU:HA	1.23	1.01
40:35:79:ARG:HG3	40:35:110:TYR:HB2	1.42	1.01
26:1H:751:A:OP1	63:1H:3726:HOH:O	1.76	1.01
26:1H:1061:U:H4'	26:1H:1070:A:H1'	1.39	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1056:G:N2	26:1H:1103:A:N7	2.08	1.01
26:1H:2733:A:OP1	63:1H:3729:HOH:O	1.77	1.01
1:1G:1305:G:H22	1:1G:1331:G:H2'	1.25	1.00
10:1A:48:THR:HA	10:1A:62:HIS:HB3	1.42	1.00
26:1H:452:G:OP2	63:1H:3733:HOH:O	1.80	1.00
26:1H:1780:A:OP1	63:1H:3730:HOH:O	1.78	1.00
43:65:20:ARG:NH2	43:65:21:THR:OG1	1.93	1.00
26:1H:2593:U:O4	63:1H:3728:HOH:O	1.77	1.00
1:1G:448:A:OP2	1:1G:485:G:N2	1.94	0.99
26:14:741:G:OP1	63:14:3718:HOH:O	1.79	0.99
26:1H:2518:A:OP2	63:1H:3732:HOH:O	1.80	0.99
26:1H:1332:G:OP1	63:1H:3731:HOH:O	1.79	0.99
26:1H:1614:A:OP1	63:1H:3737:HOH:O	1.82	0.97
45:C8:69:CYS:HG	45:C8:79:PHE:HD2	1.05	0.97
26:14:1359:A:H62	26:14:1372:U:H3	1.03	0.97
26:1H:1265:A:OP2	63:1H:3735:HOH:O	1.81	0.97
26:1H:730:C:OP2	63:1H:3734:HOH:O	1.81	0.97
52:F5:23:LYS:HB3	52:F5:29:GLY:HA3	1.46	0.97
26:14:1394:U:OP1	63:14:3719:HOH:O	1.80	0.97
36:38:104:ILE:HG13	36:38:105:PRO:HD3	1.46	0.97
26:1H:945:A:OP2	63:1H:3736:HOH:O	1.82	0.97
1:1G:1348:U:H3	1:1G:1374:A:H2	1.12	0.97
1:13:1054:C:OP2	63:13:1911:HOH:O	1.81	0.96
26:1H:2573:C:OP1	63:1H:3725:HOH:O	1.81	0.96
26:1H:2615:U:OP1	63:1H:3735:HOH:O	1.84	0.96
15:6A:75:PRO:HB2	15:6A:79:ARG:HH21	1.28	0.96
26:1H:2646:C:OP1	63:1H:3741:HOH:O	1.84	0.95
1:13:963:G:N3	10:1I:55:LYS:NZ	2.13	0.95
26:1H:862:G:OP2	63:1H:3738:HOH:O	1.83	0.95
26:1H:2751:G:N3	33:51:3:ARG:NE	2.15	0.95
26:14:1647:G:OP2	63:14:3720:HOH:O	1.83	0.95
26:1H:929:G:O6	63:1H:3739:HOH:O	1.83	0.95
26:1H:1049:C:H2'	26:1H:1050:A:H5"	1.48	0.95
1:1G:957:U:H1'	1:1G:960:U:H5	1.29	0.95
26:14:1496:A:H8	26:14:1577:C:HO2'	1.03	0.95
26:1H:2248:C:OP2	63:1H:3743:HOH:O	1.85	0.94
1:1G:998:G:N2	1:1G:1043:C:N3	2.15	0.94
26:1H:1678:G:N2	26:1H:1989:G:H22	1.66	0.94
26:1H:1647:G:OP2	63:1H:3742:HOH:O	1.85	0.94
26:14:1614:A:OP1	63:14:3721:HOH:O	1.83	0.94
26:1H:2576:G:OP1	63:1H:3740:HOH:O	1.84	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:H8:52:SER:O	50:H8:54:HIS:N	2.01	0.94
1:1G:664:G:H22	1:1G:741:G:H1	1.14	0.94
7:62:93:PRO:HD2	7:62:94:ARG:HH21	1.32	0.93
26:1H:607:U:H3	26:1H:621:A:H2	1.14	0.93
26:1H:1899:G:H22	26:1H:1902:C:N4	1.66	0.93
26:1H:2068:U:H3	26:1H:2430:A:H2	1.14	0.93
37:48:132:ARG:HG2	37:48:138:VAL:H	1.33	0.93
26:14:67:U:H3	26:14:74:A:H2	1.15	0.93
26:14:1327:C:OP2	63:14:3724:HOH:O	1.86	0.93
26:14:1729:A:O2'	26:14:1731:G:N2	2.01	0.93
26:14:739:G:OP1	63:14:3726:HOH:O	1.87	0.92
26:14:787:U:OP1	63:14:3722:HOH:O	1.86	0.92
1:13:963:G:H1	1:13:972:C:H42	1.15	0.92
26:14:2701:C:H3'	26:14:2702:U:H5"	1.49	0.92
26:1H:2592:G:OP1	63:1H:3744:HOH:O	1.87	0.92
26:14:1968:G:OP1	63:14:3725:HOH:O	1.86	0.92
26:14:392:C:OP1	63:14:3723:HOH:O	1.86	0.92
26:1H:1782:C:OP1	63:1H:3730:HOH:O	1.85	0.92
32:41:161:THR:HG22	32:41:163:ALA:H	1.33	0.92
26:14:780:G:H21	26:14:783:A:H62	1.16	0.92
26:1H:592:G:H21	59:Q8:4:MET:HE1	1.31	0.91
26:14:761:A:N7	63:14:3701:HOH:O	2.04	0.91
1:13:963:G:H21	10:1I:55:LYS:HE2	1.35	0.91
48:F8:3:THR:O	48:F8:5:TYR:N	2.03	0.91
19:AI:40:ILE:HG12	19:AI:41:VAL:HG13	1.53	0.91
51:E5:12:ASN:HA	51:E5:14:ARG:HH21	1.35	0.91
1:1G:516:U:O4	63:1G:1807:HOH:O	1.89	0.91
26:14:847:U:OP2	63:14:3730:HOH:O	1.89	0.91
40:78:63:PRO:HB2	59:Q8:30:ARG:HH21	1.35	0.91
26:14:2685:G:O6	63:14:3728:HOH:O	1.88	0.91
24:3K:23:G:N7	24:3K:47:G:N2	2.16	0.90
1:1G:1128:C:H4'	9:82:16:ARG:HH12	1.35	0.90
26:1H:1059:G:H21	37:48:127:ILE:HD13	1.35	0.90
44:B8:51:ARG:HB2	44:B8:98:LYS:HD3	1.52	0.90
45:85:112:ARG:HH12	46:95:45:THR:HG23	1.37	0.90
36:38:93:LEU:HD13	36:38:126:ALA:HB1	1.52	0.90
26:14:784:A:OP2	63:14:3732:HOH:O	1.90	0.90
21:1B:8:THR:HG21	21:1B:10:ARG:HH21	1.35	0.90
26:14:469:G:OP2	63:14:3729:HOH:O	1.89	0.90
26:14:2448:A:OP2	63:14:3731:HOH:O	1.89	0.90
1:13:877:C:OP1	8:7E:88:LYS:NZ	2.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1783:A:OP2	63:1H:3745:HOH:O	1.88	0.90
26:14:2583:G:OP2	63:14:3727:HOH:O	1.87	0.90
26:1H:1376:C:OP2	63:1H:3747:HOH:O	1.90	0.90
32:41:112:PRO:HB3	55:M8:37:SER:H	1.35	0.90
26:1H:2791:C:H42	26:1H:2805:G:H1	1.18	0.89
1:1G:533:A:OP1	63:1G:1807:HOH:O	1.90	0.89
2:12:42:ILE:HD11	2:12:202:PRO:HB2	1.54	0.89
26:14:397:G:N7	63:14:3800:HOH:O	2.05	0.89
26:1H:574:C:OP1	63:1H:3746:HOH:O	1.89	0.89
26:1H:847:U:OP2	63:1H:3739:HOH:O	1.89	0.89
26:1H:31:C:OP1	63:1H:3752:HOH:O	1.90	0.89
26:14:1992:G:N7	63:14:3803:HOH:O	2.05	0.89
1:13:837:G:OP2	1:13:842:C:N4	2.06	0.89
26:1H:1495:A:OP2	63:1H:3748:HOH:O	1.90	0.89
26:1H:1774:C:OP1	63:1H:3753:HOH:O	1.91	0.89
26:14:2415:G:H4'	40:35:67:MET:H	1.37	0.89
26:1H:1570:A:H5'	29:11:37:LEU:HD21	1.54	0.89
1:1G:827:U:H3	1:1G:872:A:H62	1.21	0.89
26:1H:1899:G:H22	26:1H:1902:C:H41	0.91	0.89
7:62:141:VAL:HA	7:62:142:GLU:HB2	1.55	0.89
26:14:1678:G:H22	26:14:1989:G:H22	1.20	0.89
26:1H:860:U:H5	26:1H:917:A:C2	1.90	0.88
34:18:2:ALA:HB2	34:28:21:LYS:HG3	1.55	0.88
26:1H:763:G:OP1	63:1H:3751:HOH:O	1.90	0.88
26:1H:2308:G:H1	26:1H:2311:A:H2	0.92	0.88
26:1H:1616:A:O2'	63:1H:3749:HOH:O	1.90	0.88
26:14:2113:U:H3'	26:14:2114:A:H4'	1.55	0.88
1:13:989:C:H42	1:13:1216:G:H1	1.18	0.88
26:1H:701:G:N7	63:1H:3846:HOH:O	2.07	0.88
26:1H:734:A:OP2	63:1H:3759:HOH:O	1.92	0.88
29:11:26:LYS:HD2	29:11:29:PRO:HG3	1.56	0.88
1:1G:800:G:O6	63:1G:1808:HOH:O	1.90	0.88
4:32:168:ARG:HH11	4:32:169:LYS:H	1.16	0.88
1:13:611:A:H61	1:13:629:G:H1	1.21	0.88
26:14:1352:U:OP1	63:14:3734:HOH:O	1.91	0.88
26:14:1952:A:C6	39:25:22:ILE:HD11	2.09	0.88
26:1H:2701:C:H3'	26:1H:2702:U:H5'	1.56	0.88
26:14:1899:G:H21	26:14:1902:C:H42	1.20	0.88
2:12:166:ASP:HB3	2:12:169:LYS:HB2	1.55	0.87
26:14:386:G:OP1	63:14:3733:HOH:O	1.90	0.87
50:D5:8:TYR:HD1	50:D5:62:PRO:HG3	1.36	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:588:G:OP2	63:13:1912:HOH:O	1.91	0.87
1:13:1182:G:H4'	1:13:1183:A:H5"	1.56	0.87
26:14:2448:A:OP1	63:14:3738:HOH:O	1.93	0.87
26:1H:2502:G:OP2	63:1H:3758:HOH:O	1.92	0.87
26:14:1899:G:H21	26:14:1902:C:N4	1.71	0.87
26:1H:1315:C:OP2	63:1H:3760:HOH:O	1.92	0.87
26:14:517:C:OP1	56:J5:16:ARG:NH2	2.08	0.87
26:1H:674:G:H1'	31:31:74:ARG:HD3	1.57	0.87
26:1H:1520:U:OP2	63:1H:3750:HOH:O	1.90	0.87
26:14:365:C:OP2	63:14:3735:HOH:O	1.92	0.87
26:1H:2006:C:OP1	63:1H:3723:HOH:O	1.90	0.87
26:14:2589:A:OP1	63:14:3732:HOH:O	1.91	0.87
26:1H:1263:U:O4	63:1H:3757:HOH:O	1.92	0.87
26:1H:1670:C:OP1	63:1H:3755:HOH:O	1.91	0.87
26:1H:1664:A:OP2	63:1H:3756:HOH:O	1.91	0.87
25:4K:23:A:H4'	25:4K:24:A:H5'	1.55	0.86
1:1G:1123:A:H4'	10:1A:36:GLY:HA3	1.56	0.86
26:14:409:C:OP1	63:14:3723:HOH:O	1.93	0.86
26:14:943:U:OP2	63:14:3739:HOH:O	1.93	0.86
26:14:2371:G:O6	63:14:3740:HOH:O	1.93	0.86
49:C5:28:LYS:HG3	49:C5:38:ILE:HG22	1.57	0.86
26:1H:138:G:N2	48:F8:44:GLU:OE2	2.07	0.86
26:14:1658:C:OP1	63:14:3737:HOH:O	1.93	0.86
26:14:2287:A:N6	26:14:2344:U:H3	1.72	0.86
1:13:974:A:OP2	14:5I:41:ARG:NH1	2.08	0.86
9:8E:50:LEU:HD23	9:8E:85:LEU:HD11	1.57	0.86
36:38:54:ALA:HB1	36:38:57:THR:HB	1.55	0.86
26:1H:586:A:OP2	63:1H:3754:HOH:O	1.91	0.86
26:1H:1968:G:OP1	63:1H:3762:HOH:O	1.92	0.86
33:51:4:ILE:HG23	33:51:6:ARG:H	1.38	0.86
26:14:1372:U:OP2	63:14:3744:HOH:O	1.94	0.86
50:D5:52:SER:O	50:D5:54:HIS:N	2.09	0.86
26:1H:2126:A:N6	26:1H:2163:C:O2'	2.08	0.86
50:D5:91:LEU:HD12	50:D5:130:PRO:HG3	1.57	0.86
26:1H:793:A:OP1	63:1H:3761:HOH:O	1.92	0.86
26:14:675:A:OP2	63:14:3736:HOH:O	1.92	0.86
26:1H:1187:G:OP2	63:1H:3764:HOH:O	1.93	0.85
26:14:793:A:OP1	63:14:3745:HOH:O	1.94	0.85
26:14:928:G:N7	63:14:3821:HOH:O	2.08	0.85
26:1H:1665:A:OP2	63:1H:3771:HOH:O	1.94	0.85
26:1H:2005:A:OP1	63:1H:3766:HOH:O	1.93	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:761:A:OP1	63:1H:3734:HOH:O	1.93	0.85
26:1H:2270:G:OP2	63:1H:3768:HOH:O	1.94	0.85
1:1G:963:G:N3	10:1A:55:LYS:NZ	2.24	0.85
26:14:1019:U:H3	26:14:1142(A):A:H62	1.24	0.85
26:1H:1496:A:H8	26:1H:1577:C:HO2'	0.88	0.85
26:1H:2867:G:OP2	44:B8:119:LYS:NZ	2.09	0.85
20:BA:74:LYS:O	20:BA:76:ALA:N	2.10	0.85
33:59:101:ARG:HG3	33:59:117:PRO:HG3	1.59	0.85
1:13:572:A:OP1	63:13:1914:HOH:O	1.94	0.85
26:1H:732:C:OP2	63:1H:3769:HOH:O	1.94	0.85
26:1H:2111:C:N4	26:1H:2147:G:O6	2.08	0.85
26:14:2407:G:OP1	63:14:3742:HOH:O	1.93	0.85
26:1H:2061:G:OP1	63:1H:3763:HOH:O	1.92	0.85
49:C5:102:CYS:SG	49:C5:103:GLY:N	2.48	0.85
1:13:970:C:OP2	63:13:1913:HOH:O	1.93	0.85
23:2K:76:C:OP1	63:2K:201:HOH:O	1.95	0.84
36:38:27:VAL:HA	36:38:110:GLY:HA3	1.57	0.84
55:M8:40:HIS:NE2	55:M8:45:GLY:O	2.09	0.84
26:14:1359:A:N6	26:14:1372:U:H3	1.75	0.84
26:1H:2656:U:H3	26:1H:2665:A:H2	1.24	0.84
26:14:974(A):C:OP1	63:14:3747:HOH:O	1.94	0.84
10:1I:48:THR:HA	10:1I:62:HIS:HB3	1.60	0.84
26:14:2503:A:OP1	63:14:3717:HOH:O	1.93	0.84
27:1J:18:G:H1	27:1J:65:C:H42	1.24	0.84
46:95:37:VAL:HG21	46:95:57:VAL:HG12	1.58	0.84
18:9I:22:VAL:HG13	18:9I:42:ARG:HH12	1.42	0.84
1:1G:330:C:O2	63:1G:1809:HOH:O	1.93	0.84
26:14:2837:G:N7	63:14:3835:HOH:O	2.10	0.84
1:13:145:G:H1	1:13:177:C:H42	1.25	0.84
1:1G:572:A:OP2	63:1G:1810:HOH:O	1.94	0.84
1:13:1348:U:H3	1:13:1374:A:H2	1.26	0.84
26:1H:1086:A:H4'	26:1H:1103:A:H61	1.43	0.84
26:1H:1899:G:N2	26:1H:1902:C:H41	1.75	0.84
26:1H:2503:A:OP1	63:1H:3770:HOH:O	1.94	0.84
26:14:1425:G:O6	63:14:3743:HOH:O	1.94	0.84
45:85:92:ARG:HD3	45:85:94:ASN:HB3	1.58	0.84
1:1G:353:A:N7	63:1G:1836:HOH:O	2.11	0.84
26:14:574:C:OP1	63:14:3741:HOH:O	1.93	0.84
1:1G:547:A:OP1	63:1G:1811:HOH:O	1.96	0.84
24:3L:18:G:H22	24:3L:56:U:H3	1.26	0.84
26:14:1268:A:OP1	63:14:3748:HOH:O	1.94	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2088:G:O6	63:14:3751:HOH:O	1.96	0.84
1:13:5:U:OP1	1:13:5:U:H4'	1.78	0.84
26:1H:1639:U:OP1	63:1H:3777:HOH:O	1.96	0.84
26:1H:2819:G:OP1	63:1H:3767:HOH:O	1.94	0.84
28:79:20:TYR:O	28:79:224:ILE:HA	1.77	0.84
26:14:2582:G:OP2	63:14:3753:HOH:O	1.96	0.83
26:1H:733:G:N7	63:1H:3880:HOH:O	2.11	0.83
26:14:2268:A:OP1	63:14:3746:HOH:O	1.94	0.83
35:61:71:ILE:HG23	35:61:72:LEU:HD13	1.60	0.83
5:42:146:ALA:HB1	5:42:150:ARG:HH21	1.43	0.83
26:1H:1327:C:OP2	63:1H:3765:HOH:O	1.93	0.83
26:1H:2639:A:OP2	63:1H:3772:HOH:O	1.95	0.83
26:1H:620:G:H4'	26:1H:621:A:H5"	1.60	0.83
26:1H:1658:C:OP1	63:1H:3775:HOH:O	1.96	0.83
26:1H:2327:A:H2'	26:1H:2328:A:C8	2.13	0.83
26:14:733:G:OP2	63:14:3750:HOH:O	1.95	0.83
26:1H:120:U:OP2	63:1H:3783:HOH:O	1.97	0.83
26:1H:187:G:N7	63:1H:3869:HOH:O	2.09	0.83
26:1H:574:C:OP2	63:1H:3782:HOH:O	1.97	0.83
26:1H:1632:A:OP2	63:1H:3787:HOH:O	1.97	0.83
26:14:1265:A:OP2	63:14:3749:HOH:O	1.95	0.83
26:14:2126:A:H1'	26:14:2127:G:H5"	1.60	0.83
2:1E:69:LEU:HD23	2:1E:159:PRO:HG3	1.59	0.83
26:1H:1696:G:OP2	63:1H:3774:HOH:O	1.96	0.83
26:1H:2016:U:OP1	63:1H:3786:HOH:O	1.97	0.83
32:41:83:ARG:H	32:41:86:MET:HE2	1.44	0.83
37:48:111:LYS:HE2	37:48:127:ILE:HG13	1.58	0.83
1:1G:973:G:N3	10:1A:55:LYS:HE2	1.93	0.83
26:1H:2287:A:N6	26:1H:2344:U:H3	1.77	0.83
39:68:35:VAL:HG11	39:68:103:ALA:HB3	1.59	0.83
26:14:141:A:H8	26:14:1595:G:H21	1.26	0.83
1:13:601:C:H2'	1:13:602:A:H8	1.42	0.83
1:13:1329:A:H5'	13:4I:29:ARG:HD2	1.59	0.83
26:1H:662:G:H5'	40:78:15:ARG:HA	1.58	0.83
26:1H:2588:G:OP1	63:1H:3781:HOH:O	1.96	0.83
1:1G:588:G:H1	1:1G:651:C:H42	1.22	0.83
26:14:90:U:O4'	63:14:3755:HOH:O	1.97	0.83
26:14:364:C:OP2	63:14:3754:HOH:O	1.96	0.83
27:16:58:A:OP2	63:16:302:HOH:O	1.95	0.83
1:1G:1273:G:H3'	1:1G:1274:G:H8	1.44	0.83
26:14:1022:G:O2'	26:14:1023:U:OP2	1.97	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:975:A:H4'	1:13:976:G:H5"	1.61	0.82
11:2I:22:HIS:HB3	11:2I:29:ILE:HG23	1.61	0.82
26:1H:1249:U:N3	63:1H:3849:HOH:O	2.07	0.82
26:1H:2079:U:O4	63:1H:3785:HOH:O	1.97	0.82
26:14:784:A:OP1	63:14:3756:HOH:O	1.97	0.82
35:69:117:GLU:HG2	35:69:118:LYS:HE2	1.60	0.82
26:1H:1828:G:OP1	63:1H:3778:HOH:O	1.96	0.82
41:45:10:ARG:HA	41:45:10:ARG:HH11	1.44	0.82
19:AI:41:VAL:HG12	19:AI:44:MET:HB3	1.61	0.82
26:1H:1345:C:OP2	63:1H:3780:HOH:O	1.97	0.82
26:1H:2837:G:N7	63:1H:3876:HOH:O	2.10	0.82
27:16:81:G:OP2	63:16:303:HOH:O	1.96	0.82
29:11:29:PRO:O	29:11:30:GLU:HG2	1.79	0.82
35:61:9:LEU:HD21	35:61:35:LEU:HD12	1.61	0.82
26:1H:1664:A:OP1	63:1H:3771:HOH:O	1.97	0.82
26:1H:2196:C:OP2	63:1H:3776:HOH:O	1.96	0.82
1:1G:1342:C:H4'	9:82:125:TYR:HB2	1.61	0.82
26:14:2592:G:OP1	63:14:3725:HOH:O	1.96	0.82
7:6E:111:ARG:NH1	7:6E:113:GLU:OE2	2.12	0.82
2:12:77:ALA:HB2	2:12:211:ILE:HD13	1.61	0.82
3:22:112:SER:HB3	3:22:115:LEU:HB2	1.62	0.82
31:39:181:LEU:HD21	31:39:186:ILE:HD11	1.61	0.82
32:49:138:GLN:HB3	32:49:155:MET:HE1	1.60	0.82
42:55:33:ARG:HG3	42:55:115:GLU:HB3	1.61	0.82
26:1H:563:G:OP2	63:1H:3773:HOH:O	1.95	0.82
40:35:39:LYS:HD2	40:35:45:LEU:HD21	1.62	0.82
31:31:101:LEU:HD23	31:31:102:PRO:HD2	1.61	0.82
26:14:1332:G:C8	26:14:1332:G:H5'	2.14	0.82
1:13:200:G:H1	1:13:217:C:H42	1.27	0.82
2:12:185:ILE:HG22	2:12:199:TYR:HB2	1.62	0.82
26:14:1970:A:OP1	63:14:3757:HOH:O	1.97	0.82
26:14:2016:U:OP1	63:14:3752:HOH:O	1.96	0.82
63:2K:201:HOH:O	26:1H:2602:A:OP1	1.98	0.82
26:1H:326:G:N7	63:1H:3901:HOH:O	2.13	0.82
26:14:660:G:H21	40:35:12:ALA:HA	1.44	0.82
31:39:188:ARG:HA	40:35:3:LEU:HD11	1.61	0.82
1:1G:1221:G:OP1	1:1G:1321:C:N4	2.13	0.81
26:14:2807:G:N2	26:14:2893:G:N7	2.27	0.81
14:5I:18:VAL:O	63:5I:201:HOH:O	1.96	0.81
26:1H:2469:A:H2	26:1H:2481:G:H21	1.26	0.81
1:1G:975:A:H4'	1:1G:976:G:H5"	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1945:G:OP1	63:14:3758:HOH:O	1.98	0.81
1:13:766:A:OP2	63:13:1916:HOH:O	1.96	0.81
17:8I:22:LEU:HD11	17:8I:39:SER:HB3	1.62	0.81
26:1H:1383:C:O2	63:1H:3789:HOH:O	1.98	0.81
26:1H:2548:G:N7	63:1H:3903:HOH:O	2.13	0.81
1:1G:125:U:O4	63:1G:1813:HOH:O	1.98	0.81
20:BA:67:ALA:HA	20:BA:73:HIS:H	1.44	0.81
26:14:601:C:OP1	31:39:108:LYS:NZ	2.13	0.81
52:F5:91:LYS:O	52:F5:93:GLU:N	2.13	0.81
26:1H:1346:G:OP2	63:1H:3780:HOH:O	1.96	0.81
26:1H:2249:U:O4	63:1H:3743:HOH:O	1.97	0.81
1:1G:1028:C:H42	1:1G:1033:G:H1	1.28	0.81
2:1E:121:LEU:O	2:1E:139:LYS:NZ	2.13	0.81
26:1H:676:A:H8	26:1H:2069:G:H21	1.29	0.81
41:45:86:GLY:O	41:45:88:GLY:N	2.12	0.81
26:1H:249:C:OP1	63:1H:3795:HOH:O	1.99	0.81
26:1H:802:A:OP1	63:1H:3791:HOH:O	1.98	0.81
26:1H:1076:C:H2'	26:1H:1077:A:H5"	1.63	0.81
50:H8:6:LYS:N	50:H8:59:LEU:O	2.14	0.81
9:8E:45:ALA:O	9:8E:78:LYS:NZ	2.14	0.81
26:1H:1342:A:OP2	63:1H:3796:HOH:O	1.99	0.81
26:1H:2582:G:OP2	63:1H:3793:HOH:O	1.98	0.81
26:14:1357:U:O4	63:14:3767:HOH:O	1.99	0.81
26:14:2239:G:OP2	63:14:3759:HOH:O	1.98	0.81
24:3K:8:U:N3	24:3K:14:A:N7	2.29	0.81
26:1H:192:C:N3	63:1H:3890:HOH:O	2.12	0.81
26:1H:784:A:OP1	63:1H:3799:HOH:O	1.99	0.81
1:1G:1021:G:H2'	1:1G:1022:G:H8	1.45	0.81
32:49:5:VAL:HG12	32:49:7:LEU:H	1.45	0.81
26:1H:1633:G:O6	63:1H:3779:HOH:O	1.96	0.81
10:1A:33:GLN:HG3	10:1A:75:ILE:HG12	1.63	0.81
29:19:255:LYS:H	29:19:255:LYS:NZ	1.79	0.81
2:1E:80:ILE:HG12	2:1E:212:GLN:HB2	1.61	0.80
26:1H:147:U:O4	63:1H:3794:HOH:O	1.98	0.80
26:1H:801:G:OP2	63:1H:3784:HOH:O	1.97	0.80
26:1H:1349:A:OP1	63:1H:3788:HOH:O	1.98	0.80
52:J8:93:GLU:H	52:J8:94:LEU:HA	1.43	0.80
26:14:275:G:N2	26:14:276:A:N7	2.28	0.80
26:1H:1077:A:H3'	26:1H:1078:U:C5'	2.11	0.80
26:14:543:C:H42	26:14:550:G:H1	1.29	0.80
7:6E:122:HIS:HA	7:6E:125:MET:HE2	1.60	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1778:U:H2'	26:1H:1784:A:N6	1.95	0.80
26:1H:2577:A:OP1	63:1H:3792:HOH:O	1.98	0.80
24:3L:8:U:O2	24:3L:13:C:N4	2.12	0.80
29:19:69:ARG:NH2	29:19:128:GLY:O	2.14	0.80
20:BI:89:ARG:HD2	20:BI:104:LEU:HD21	1.62	0.80
26:1H:963:U:OP1	63:1H:3790:HOH:O	1.98	0.80
26:1H:1187:G:N7	63:1H:3905:HOH:O	2.13	0.80
26:14:399:G:OP2	63:14:3763:HOH:O	1.99	0.80
26:14:2681:C:H5	26:14:2725:A:H62	1.26	0.80
1:13:1305:G:H21	1:13:1331:G:H2'	1.46	0.80
44:75:55:ASN:H	44:75:59:THR:HG22	1.47	0.80
1:13:270:A:OP2	63:13:1917:HOH:O	2.00	0.80
24:3K:60:A:OP2	24:3K:60:A:H4'	1.82	0.80
26:14:249:C:OP1	63:14:3762:HOH:O	1.98	0.80
26:1H:948:G:O6	63:1H:3797:HOH:O	1.99	0.80
26:1H:1314:C:OP1	63:1H:3760:HOH:O	1.98	0.80
26:1H:2134:A:O2'	26:1H:2159:G:N2	2.15	0.80
1:13:448:A:OP2	1:13:485:G:N2	2.15	0.80
1:1G:1295:G:O2'	13:4A:14:ARG:NH1	2.14	0.80
26:1H:1496:A:H8	26:1H:1577:C:O2'	1.63	0.80
30:21:39:PRO:HD3	30:21:45:THR:HG22	1.63	0.80
31:31:29:ASN:H	31:31:112:MET:HE1	1.47	0.80
1:1G:1147:C:O2	9:82:16:ARG:NH1	2.14	0.80
1:13:838:G:H1	1:13:848:C:N4	1.80	0.80
1:13:1256:A:N6	1:13:1278:U:OP2	2.14	0.80
26:1H:780:G:H21	26:1H:783:A:H62	1.28	0.80
1:1G:766:A:OP2	63:1G:1812:HOH:O	1.98	0.80
2:12:20:GLU:HG3	2:12:191:ASP:HB2	1.63	0.80
26:14:1209:G:OP2	63:14:3761:HOH:O	1.98	0.80
26:14:1828:G:OP2	63:14:3764:HOH:O	1.99	0.80
26:14:2593:U:O4	63:14:3712:HOH:O	2.00	0.80
18:9I:22:VAL:O	18:9I:42:ARG:NH2	2.16	0.79
26:1H:2533:A:OP2	63:1H:3804:HOH:O	2.00	0.79
1:1G:976:G:N2	1:1G:1362(A):C:OP2	2.10	0.79
1:1G:1281:U:OP2	1:1G:1282:C:N4	2.15	0.79
26:14:2518:A:OP2	63:14:3769:HOH:O	2.00	0.79
30:21:181:LEU:HD21	44:B8:6:LEU:HD12	1.63	0.79
1:1G:780:A:OP2	63:1G:1815:HOH:O	1.99	0.79
51:E5:53:MET:HG3	51:E5:59:LEU:HD23	1.64	0.79
4:3E:64:LEU:HD22	4:3E:198:VAL:HG11	1.65	0.79
26:1H:1021:A:H62	26:1H:1141:U:H3	1.27	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1083:U:OP1	36:38:47:ASN:ND2	2.16	0.79
36:38:138:LEU:HD21	34:28:26:ALA:HB2	1.63	0.79
1:1G:1402:C:OP2	63:1G:1816:HOH:O	1.99	0.79
26:14:879:G:O6	26:14:898:C:N4	2.16	0.79
26:14:1247:A:OP1	31:39:95:ARG:NH2	2.16	0.79
26:14:2447:G:H3'	63:14:3820:HOH:O	1.82	0.79
26:14:800:A:OP1	63:14:3760:HOH:O	1.98	0.79
26:1H:839:U:OP2	63:1H:3807:HOH:O	2.01	0.79
26:1H:910:A:H62	41:88:12:GLN:HA	1.48	0.79
1:1G:9:G:OP2	5:42:121:LYS:NZ	2.14	0.79
1:13:730:G:OP1	63:13:1918:HOH:O	2.01	0.79
22:1K:24:A:H2'	22:1K:25:G:H8	1.46	0.79
26:1H:453:C:OP1	63:1H:3800:HOH:O	1.99	0.79
26:1H:760:G:OP1	63:1H:3798:HOH:O	1.99	0.79
26:1H:2140:C:H42	26:1H:2151:G:H1	1.27	0.79
29:11:242:ARG:O	63:11:402:HOH:O	2.00	0.79
1:1G:411:A:H62	1:1G:413:G:H21	1.30	0.79
1:1G:1125:U:O4	10:1A:5:ARG:NH1	2.16	0.79
40:78:15:ARG:HB3	40:78:15:ARG:HH11	1.48	0.79
26:1H:2250:G:O5'	63:1H:3802:HOH:O	2.00	0.79
19:AA:45:VAL:HG12	19:AA:67:VAL:HG21	1.63	0.79
26:14:929:G:O6	63:14:3730:HOH:O	2.00	0.79
1:1G:576:G:OP1	63:1G:1818:HOH:O	2.00	0.79
10:1A:78:ASN:HB2	10:1A:81:THR:H	1.48	0.79
26:14:240:G:O6	63:14:3765:HOH:O	1.99	0.79
26:14:1278:A:N7	63:14:3864:HOH:O	2.16	0.79
40:35:97:PRO:HG3	40:35:112:LEU:HD12	1.64	0.79
1:13:1502:A:H2	1:13:1505:G:H1	1.31	0.78
26:1H:1858:G:O6	63:1H:3805:HOH:O	2.00	0.78
51:I8:11:ARG:O	51:I8:14:ARG:NH2	2.16	0.78
26:14:49:A:H4'	26:14:50:U:H5"	1.63	0.78
26:1H:2164:C:OP2	26:1H:2166:G:N2	2.16	0.78
1:1G:353:A:OP1	63:1G:1817:HOH:O	2.00	0.78
26:14:2830:G:O6	63:14:3773:HOH:O	2.01	0.78
26:1H:330:A:HO2'	26:1H:331:A:H8	1.32	0.78
26:1H:1156:A:OP2	63:1H:3801:HOH:O	2.00	0.78
48:F8:8:ILE:HD11	48:F8:43:VAL:HG22	1.65	0.78
7:62:113:GLU:HB2	7:62:119:ARG:HG2	1.66	0.78
26:1H:1113:U:OP1	33:51:2:SER:N	2.16	0.78
26:14:802:A:OP1	63:14:3768:HOH:O	2.00	0.78
44:75:56:GLY:O	44:75:59:THR:HG23	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D5:146:ILE:HA	50:D5:174:VAL:HB	1.64	0.78
20:BI:53:LEU:HB3	20:BI:57:ARG:HH12	1.45	0.78
30:21:82:ARG:O	30:21:84:PHE:N	2.15	0.78
1:1G:768:A:OP2	63:1G:1820:HOH:O	2.01	0.78
59:M5:33:ASN:O	59:M5:35:GLN:N	2.15	0.78
1:13:859:A:H2'	1:13:860:A:H8	1.46	0.78
26:1H:770:G:N7	63:1H:3939:HOH:O	2.17	0.78
26:1H:2577:A:H5"	26:1H:2578:G:H5'	1.65	0.78
44:B8:62:THR:HG22	44:B8:75:ILE:HG13	1.64	0.78
44:B8:77:PRO:HG2	44:B8:80:SER:HB2	1.65	0.78
1:1G:992:U:H3	1:1G:1044:A:H62	1.32	0.78
1:13:153:C:H42	1:13:168:G:H1	1.32	0.78
2:1E:174:VAL:HG13	2:1E:184:VAL:HG11	1.64	0.78
26:1H:1199:U:OP1	63:1H:3809:HOH:O	2.01	0.78
26:1H:1650:G:O6	63:1H:3811:HOH:O	2.01	0.78
1:1G:673:G:H2'	1:1G:674:G:C8	2.19	0.78
26:14:1056:G:H4'	26:14:1086:A:H1'	1.66	0.78
26:14:248:G:OP1	63:14:3771:HOH:O	2.01	0.78
26:14:1300:U:O4	63:14:3766:HOH:O	1.99	0.78
26:14:2098:U:N3	26:14:2191:G:O6	2.16	0.78
26:14:2736:G:O6	63:14:3776:HOH:O	2.01	0.78
26:1H:2885:C:OP2	63:1H:3803:HOH:O	2.00	0.78
26:14:528:A:OP2	38:15:114:ARG:NH1	2.16	0.78
26:1H:1689:A:H62	26:1H:1698:A:H2	1.31	0.78
33:51:137:ASP:OD1	33:51:138:LYS:N	2.15	0.78
53:K8:15:LYS:H	53:K8:67:LYS:HE2	1.48	0.78
1:1G:943:U:H1'	9:82:124:GLN:HE22	1.49	0.78
26:14:819:A:OP2	26:14:1187:G:N2	2.16	0.78
33:59:41:MET:HB3	33:59:54:ARG:HA	1.66	0.78
1:13:838:G:H1	1:13:848:C:H42	1.32	0.77
11:2I:32:ILE:HD11	11:2I:68:ALA:HB1	1.64	0.77
12:3I:62:SER:HB2	12:3I:64:TYR:HD1	1.49	0.77
26:1H:142:G:H1'	48:F8:37:THR:HG21	1.64	0.77
26:1H:818:G:OP2	63:1H:3812:HOH:O	2.02	0.77
50:H8:80:ARG:HG3	50:H8:82:ARG:HG2	1.64	0.77
1:1G:315:A:OP1	63:1G:1822:HOH:O	2.02	0.77
1:1G:1026:G:O6	1:1G:1036:G:N2	2.17	0.77
49:C5:8:LYS:HD3	49:C5:97:ARG:HH12	1.48	0.77
26:1H:1728:G:H8	26:1H:1732:A:H62	1.31	0.77
38:58:70:LYS:HE3	38:58:72:TYR:HE1	1.49	0.77
26:14:1900:A:OP2	63:14:3770:HOH:O	2.01	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1J:80:U:H2'	27:1J:81:G:H21	1.49	0.77
44:75:108:ARG:HA	44:75:111:ARG:HG3	1.65	0.77
7:62:71:PRO:HD3	7:62:103:TRP:HZ3	1.48	0.77
26:14:252:G:OP2	40:35:50:ARG:NH2	2.17	0.77
26:14:958:U:OP2	41:45:14:ARG:NH1	2.17	0.77
26:14:1776:G:OP2	63:14:3785:HOH:O	2.03	0.77
39:25:13:ASN:HD21	39:25:97:ARG:H	1.32	0.77
1:13:1007:C:O2	1:13:1022:G:N2	2.17	0.77
1:13:1165:C:O2	1:13:1171:G:N2	2.16	0.77
2:1E:68:ILE:HG13	2:1E:161:ALA:HB3	1.65	0.77
26:1H:1416:G:HO2'	26:1H:1417:C:H6	1.33	0.77
26:1H:2287:A:H62	26:1H:2344:U:H3	1.30	0.77
30:21:105:THR:OG1	30:21:199:ARG:NH2	2.18	0.77
1:13:1127:G:H2'	1:13:1128:C:C2	2.20	0.77
26:1H:450:G:OP2	63:1H:3808:HOH:O	2.01	0.77
1:1G:573:A:OP2	63:1G:1819:HOH:O	2.01	0.77
2:12:63:MET:HG3	2:12:225:ALA:HB1	1.66	0.77
24:3L:18:G:H21	24:3L:59:A:H5'	1.49	0.77
26:14:1263:U:OP2	63:14:3772:HOH:O	2.01	0.77
26:14:2302:G:N2	26:14:2314:C:O2	2.18	0.77
1:13:768:A:OP2	63:13:1919:HOH:O	2.02	0.77
26:1H:578:A:OP2	63:1H:3810:HOH:O	2.01	0.77
26:1H:592:G:N2	59:Q8:4:MET:HE1	1.99	0.77
26:1H:947:G:O6	63:1H:3813:HOH:O	2.02	0.77
26:1H:2396:G:H5"	52:J8:25:LYS:HE2	1.67	0.77
26:14:751:A:OP1	63:14:3784:HOH:O	2.03	0.77
38:15:42:TRP:O	45:85:64:ARG:NH2	2.17	0.77
26:1H:1779:U:H2'	63:1H:4061:HOH:O	1.83	0.77
31:31:6:VAL:N	31:31:24:LEU:O	2.18	0.77
1:1G:1264:C:N4	1:1G:1271:G:O6	2.17	0.77
1:13:564:C:H5"	63:13:2006:HOH:O	1.84	0.77
15:6I:16:ALA:HB1	15:6I:21:ASP:HB3	1.66	0.77
26:1H:2419:U:O4	63:1H:3815:HOH:O	2.03	0.77
45:C8:92:ARG:CZ	46:D8:11:GLN:H	1.97	0.77
1:1G:1021:G:H2'	1:1G:1022:G:C8	2.20	0.77
1:1G:1316:G:N2	1:1G:1319:A:H5"	2.00	0.77
1:1G:1505:G:OP1	63:1G:1821:HOH:O	2.01	0.77
26:14:404:C:OP1	63:14:3783:HOH:O	2.02	0.77
20:BI:71:THR:HG22	20:BI:72:LEU:H	1.50	0.77
26:1H:567:A:OP1	63:1H:3817:HOH:O	2.03	0.77
2:12:47:THR:HA	2:12:202:PRO:HG2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:411:G:OP1	63:14:3742:HOH:O	2.03	0.77
26:14:790:C:O5'	63:14:3778:HOH:O	2.02	0.77
26:14:1021:A:H62	26:14:1141:U:H3	1.30	0.77
26:14:1898:U:O4	63:14:3786:HOH:O	2.03	0.77
26:14:2357:U:OP1	51:E5:20:ARG:NH1	2.17	0.77
59:M5:33:ASN:OD1	59:M5:36:LYS:NZ	2.18	0.77
26:1H:810:U:OP1	63:1H:3709:HOH:O	2.01	0.77
1:1G:1162:C:H42	1:1G:1174:G:H1	1.33	0.77
26:14:1614:A:OP1	63:14:3789:HOH:O	2.03	0.77
1:13:1526:G:O3'	63:13:1921:HOH:O	2.02	0.76
23:2K:55:5MU:O4	63:2K:202:HOH:O	2.02	0.76
26:1H:1287:A:N7	42:98:107:ASP:HB2	2.00	0.76
26:1H:1388:G:H2'	26:1H:1389:G:H8	1.47	0.76
30:21:77:ILE:O	30:21:79:ARG:N	2.18	0.76
35:61:68:LEU:HA	35:61:71:ILE:HG22	1.66	0.76
38:58:9:VAL:HG21	38:58:39:ARG:HH12	1.49	0.76
1:13:352:C:OP2	63:13:1924:HOH:O	2.04	0.76
1:13:503:C:OP2	12:3I:116:SER:OG	2.02	0.76
13:4I:91:ARG:HB2	13:4I:98:VAL:HG12	1.67	0.76
26:1H:2588:G:OP1	63:1H:3806:HOH:O	2.01	0.76
45:C8:92:ARG:NH1	46:D8:11:GLN:O	2.18	0.76
1:1G:536:C:OP2	63:1G:1823:HOH:O	2.03	0.76
6:52:5:GLU:OE2	63:52:301:HOH:O	2.03	0.76
26:14:409:C:O2	63:14:3781:HOH:O	2.02	0.76
26:14:2588:G:OP1	63:14:3777:HOH:O	2.02	0.76
1:13:446:G:H1	1:13:488:C:H42	1.31	0.76
22:1K:7:G:H3'	22:1K:8:4SU:H5'	1.67	0.76
26:1H:192:C:OP2	63:1H:3814:HOH:O	2.02	0.76
26:1H:363(B):G:H2'	26:1H:363(C):G:H8	1.49	0.76
1:1G:1007:C:O2	1:1G:1023:G:N2	2.18	0.76
26:14:574:C:OP2	63:14:3792:HOH:O	2.03	0.76
26:14:1314:C:OP1	63:14:3779:HOH:O	2.02	0.76
26:14:1332:G:H5'	26:14:1332:G:H8	1.49	0.76
26:14:1774:C:OP1	63:14:3774:HOH:O	2.01	0.76
31:39:28:ILE:HA	31:39:112:MET:HG2	1.68	0.76
26:1H:2447:G:O5'	63:1H:3822:HOH:O	2.04	0.76
35:61:78:THR:HA	35:61:141:LYS:HB2	1.68	0.76
5:42:75:THR:OG1	5:42:117:ASP:O	2.02	0.76
1:13:504:C:OP1	63:13:1922:HOH:O	2.03	0.76
26:1H:270(E):G:H1	26:1H:270(U):C:H42	1.33	0.76
42:98:67:LEU:HD22	42:98:76:VAL:HG21	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:725:G:OP2	63:14:3782:HOH:O	2.02	0.76
41:45:88:GLY:O	41:45:89:ASN:ND2	2.18	0.76
26:1H:2574:G:OP1	63:1H:3725:HOH:O	2.03	0.76
24:3L:46:G:O2'	24:3L:47:G:H5'	1.85	0.76
30:29:70:ALA:O	30:29:72:VAL:N	2.17	0.76
1:13:803:G:OP1	63:13:1925:HOH:O	2.04	0.76
1:13:1178:G:H5"	9:8E:93:ARG:HH22	1.50	0.76
26:1H:585:G:OP2	63:1H:3823:HOH:O	2.04	0.76
26:1H:1658:C:OP1	63:1H:3819:HOH:O	2.03	0.76
26:14:1209:G:O6	63:14:3790:HOH:O	2.03	0.76
35:69:41:GLU:HA	35:69:44:LEU:HB2	1.67	0.76
49:C5:51:VAL:HG12	49:C5:57:GLN:HG3	1.66	0.76
26:1H:270(K):C:O2	26:1H:270(N):G:N1	2.18	0.76
27:16:31:C:O2	27:16:53:A:N6	2.19	0.76
31:31:198:ALA:HA	31:31:201:VAL:HG12	1.68	0.76
11:2A:98:LEU:O	11:2A:101:SER:OG	2.04	0.76
26:14:2615:U:OP2	63:14:3791:HOH:O	2.03	0.76
26:14:2652:C:H42	26:14:2668:G:H1	1.34	0.76
17:8I:48:GLU:O	17:8I:50:LYS:N	2.18	0.76
47:E8:18:ARG:HD3	47:E8:76:VAL:HG13	1.68	0.76
51:I8:14:ARG:NH1	63:I8:201:HOH:O	2.18	0.76
54:L8:12:PRO:O	54:L8:20:LYS:NZ	2.19	0.76
23:2L:24:C:H2'	23:2L:25:U:C6	2.21	0.76
26:14:676:A:H8	26:14:2069:G:H21	1.34	0.76
26:14:2520:C:H41	26:14:2542:A:H62	1.34	0.76
3:2E:58:GLU:HB2	3:2E:65:ALA:HB3	1.68	0.76
26:1H:2312:U:H5'	32:41:88:ILE:HD12	1.68	0.76
20:BA:56:MET:HG3	20:BA:88:VAL:HG21	1.67	0.76
26:14:1329:U:H5"	26:14:1330:C:H5	1.49	0.76
7:6E:62:PHE:HA	7:6E:124:LEU:HD21	1.68	0.75
9:82:112:LYS:HA	9:82:119:ALA:HB2	1.67	0.75
26:14:2270:G:OP2	63:14:3794:HOH:O	2.04	0.75
2:1E:32:ILE:HD13	2:1E:40:HIS:HB3	1.67	0.75
26:1H:926:A:N7	63:1H:3947:HOH:O	2.17	0.75
32:41:173:LEU:HB3	32:41:178:PHE:CD2	2.21	0.75
10:1A:3:LYS:N	10:1A:74:ILE:O	2.19	0.75
26:14:2268:A:OP1	63:14:3788:HOH:O	2.03	0.75
31:39:123:LEU:O	31:39:125:LEU:N	2.15	0.75
1:13:1385:G:N7	63:13:1961:HOH:O	2.20	0.75
26:1H:1269:A:N7	63:1H:3955:HOH:O	2.19	0.75
26:1H:1479:G:N7	26:1H:1510:A:N6	2.35	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:438:G:OP1	63:1G:1826:HOH:O	2.04	0.75
1:1G:1262:C:H42	1:1G:1273:G:H1	1.34	0.75
28:79:38:ASP:OD2	28:79:177:LYS:NZ	2.18	0.75
26:1H:2139:C:N4	26:1H:2152:G:O6	2.18	0.75
27:16:15:A:H5'	27:16:16:G:C8	2.22	0.75
28:71:29:VAL:HG21	28:71:185:LEU:HG	1.69	0.75
1:1G:957:U:H1'	1:1G:960:U:C5	2.19	0.75
19:AA:41:VAL:HG23	19:AA:44:MET:HB2	1.69	0.75
26:14:5:A:N6	26:14:2629:A:O2'	2.20	0.75
26:14:2785:C:O2'	30:29:64:LYS:NZ	2.20	0.75
1:13:130:A:OP2	17:8I:63:ARG:NH2	2.19	0.75
26:1H:373:U:OP2	63:1H:3827:HOH:O	2.05	0.75
26:1H:511:U:OP2	63:1H:3821:HOH:O	2.04	0.75
7:62:68:ASN:ND2	7:62:127:ALA:O	2.19	0.75
26:14:2782:G:OP2	63:14:3795:HOH:O	2.04	0.75
52:F5:91:LYS:HE2	52:F5:91:LYS:HA	1.69	0.75
26:1H:2308:G:N1	26:1H:2311:A:H2	1.78	0.75
10:1A:24:VAL:HG21	10:1A:37:PRO:HG3	1.67	0.75
26:14:1298:C:OP2	63:14:3780:HOH:O	2.02	0.75
26:14:1417:C:OP2	63:14:3799:HOH:O	2.05	0.75
26:14:2006:C:OP1	63:14:3748:HOH:O	2.04	0.75
26:1H:275:G:N2	26:1H:276:A:N7	2.33	0.75
36:38:70:GLU:HB3	36:38:71:LEU:HG	1.67	0.75
26:14:563:G:OP2	63:14:3797:HOH:O	2.04	0.75
30:29:36:ARG:HH22	30:29:88:GLY:HA2	1.51	0.75
33:59:87:LEU:HD22	33:59:162:ILE:HG22	1.68	0.75
50:D5:51:ALA:HB1	50:D5:57:ILE:HD11	1.68	0.75
1:13:564:C:OP2	63:13:1923:HOH:O	2.04	0.75
5:4E:65:ASN:OD1	5:4E:140:ARG:NH2	2.20	0.75
26:1H:2850:A:OP2	63:1H:3830:HOH:O	2.05	0.75
1:1G:560:U:OP2	63:1G:1825:HOH:O	2.03	0.75
26:14:1959:G:N7	63:14:3883:HOH:O	2.19	0.75
26:14:2028:U:O4	63:14:3775:HOH:O	2.01	0.75
1:13:1213:A:O2'	1:13:1215:G:N7	2.19	0.74
36:38:102:LYS:HE2	36:38:103:GLY:H	1.52	0.74
22:1L:64:U:O2'	26:14:2482:G:O2'	2.03	0.74
26:14:2705:A:OP2	63:14:3787:HOH:O	2.03	0.74
52:F5:92:LYS:O	52:F5:94:LEU:N	2.20	0.74
26:1H:1190:G:N7	63:1H:3965:HOH:O	2.20	0.74
44:B8:29:ARG:HB2	44:B8:46:GLU:HG3	1.69	0.74
1:1G:550:G:OP1	63:1G:1824:HOH:O	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1154:G:H2'	1:1G:1155:G:H8	1.51	0.74
4:32:20:TYR:HD1	4:32:26:CYS:HB3	1.51	0.74
26:14:1855:G:N7	63:14:3879:HOH:O	2.19	0.74
39:25:24:VAL:HG12	39:25:33:ALA:HB2	1.68	0.74
1:13:1391:U:H2'	1:13:1392:G:C8	2.22	0.74
26:1H:252:G:OP2	40:78:50:ARG:NH1	2.19	0.74
26:1H:842:G:N7	63:1H:3969:HOH:O	2.21	0.74
26:1H:943:U:O4	63:1H:3816:HOH:O	2.03	0.74
2:12:102:LEU:HD23	2:12:182:ILE:HD12	1.69	0.74
29:19:49:ILE:HD11	29:19:52:ARG:HA	1.68	0.74
46:95:69:LYS:HG2	46:95:88:ARG:HD3	1.69	0.74
48:B5:43:VAL:HG23	48:B5:51:VAL:HG21	1.69	0.74
26:1H:2849:U:H4'	26:1H:2868:A:C2	2.23	0.74
47:E8:73:ALA:HB3	47:E8:106:ILE:HB	1.70	0.74
1:1G:1089:G:H1	1:1G:1096:C:H42	1.35	0.74
10:1A:34:VAL:HG22	10:1A:74:ILE:HG22	1.67	0.74
26:14:411:G:H5"	63:14:3932:HOH:O	1.86	0.74
26:14:625:G:N7	40:35:107:LYS:NZ	2.34	0.74
26:14:848:G:H2'	26:14:849:A:C8	2.22	0.74
26:14:1970:A:OP2	63:14:3793:HOH:O	2.04	0.74
31:39:128:ALA:O	31:39:142:TRP:NE1	2.17	0.74
42:55:38:VAL:HG12	42:55:42:LYS:HD2	1.67	0.74
1:13:310:G:OP2	16:7I:27:LYS:NZ	2.21	0.74
1:13:1228:C:H2'	1:13:1229:A:H8	1.52	0.74
3:2E:72:LYS:HD3	3:2E:75:VAL:HG21	1.69	0.74
13:4I:13:LYS:O	13:4I:44:ARG:NH1	2.20	0.74
26:1H:877:U:O4	26:1H:899:A:N6	2.20	0.74
26:1H:1521:G:N7	63:1H:3966:HOH:O	2.20	0.74
43:A8:24:LEU:HB2	43:A8:85:VAL:HG12	1.70	0.74
1:1G:79:G:H1	1:1G:90:C:H42	1.32	0.74
1:1G:1534:A:N6	25:4L:10:G:O6	2.19	0.74
1:13:1132:C:H2'	1:13:1133:G:H8	1.52	0.74
26:1H:148:C:OP2	63:1H:3832:HOH:O	2.05	0.74
26:1H:860:U:H5	26:1H:917:A:H2	1.34	0.74
26:1H:2447:G:OP1	63:1H:3824:HOH:O	2.04	0.74
1:1G:523:A:H61	12:3A:92:ASP:HB2	1.52	0.74
1:1G:1502:A:H2	1:1G:1505:G:H1	1.34	0.74
26:14:1111:A:H5'	33:59:3:ARG:HD3	1.69	0.74
26:14:1187:G:OP2	63:14:3798:HOH:O	2.05	0.74
26:14:1778:U:H2'	26:14:1784:A:N6	2.01	0.74
33:59:18:GLU:HG3	33:59:25:LYS:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:M5:33:ASN:C	59:M5:35:GLN:H	1.95	0.74
1:13:110:C:O2'	16:7I:25:ARG:O	2.05	0.74
13:4I:108:ARG:NH1	13:4I:112:GLY:O	2.20	0.74
26:1H:1209:G:OP2	63:1H:3818:HOH:O	2.03	0.74
26:1H:2685:G:O6	63:1H:3828:HOH:O	2.05	0.74
55:M8:37:SER:HA	55:M8:41:PRO:HD2	1.69	0.74
1:1G:957:U:O2'	1:1G:959:A:N7	2.21	0.74
4:32:152:SER:O	4:32:154:ASN:N	2.17	0.74
26:14:49:A:H5"	26:14:51:G:O4'	1.87	0.74
26:14:450:G:OP2	63:14:3802:HOH:O	2.05	0.74
1:13:1348:U:H2'	1:13:1349:A:H8	1.53	0.74
12:3I:32:PHE:HB3	12:3I:84:LEU:HD11	1.69	0.74
24:3K:18:G:N2	24:3K:59:A:H5'	2.03	0.74
26:1H:664:C:OP1	40:78:18:ARG:NH2	2.18	0.74
26:1H:2502:G:OP2	63:1H:3829:HOH:O	2.05	0.74
30:21:127:ASP:OD2	63:21:402:HOH:O	2.06	0.74
34:18:24:ILE:O	34:18:26:ALA:N	2.20	0.74
50:D5:175:VAL:HG22	50:D5:176:PRO:HA	1.68	0.74
4:3E:165:MET:HA	4:3E:168:ARG:HD3	1.68	0.74
9:8E:78:LYS:HE3	9:8E:101:PHE:HE1	1.53	0.74
26:1H:881:G:O6	26:1H:895:U:N3	2.20	0.74
24:3L:6:U:H3	24:3L:68:G:H22	1.35	0.74
35:69:140:LEU:HD12	35:69:141:LYS:H	1.53	0.74
1:13:1482:G:O6	63:13:1926:HOH:O	2.04	0.74
26:1H:1441:G:N7	63:1H:3974:HOH:O	2.21	0.74
26:1H:2849:U:O2'	63:1H:3825:HOH:O	2.04	0.74
39:25:85:VAL:HG11	39:25:114:ILE:HD13	1.70	0.74
56:J5:41:PRO:O	56:J5:44:THR:OG1	2.05	0.74
19:AI:15:LEU:HA	19:AI:18:LYS:HG2	1.70	0.73
26:1H:232:G:H5"	26:1H:232:G:H8	1.51	0.73
36:38:45:LYS:HD3	37:48:119:ASP:HB3	1.69	0.73
26:1H:860:U:H5"	63:1H:4041:HOH:O	1.87	0.73
42:98:78:LYS:HE2	42:98:83:ILE:HD11	1.69	0.73
2:12:76:GLN:NE2	2:12:206:ASP:OD2	2.21	0.73
26:14:890:A:H2'	26:14:892:G:C8	2.23	0.73
26:14:1341:U:OP2	26:14:1394:U:O2'	2.06	0.73
26:14:1382:G:N7	63:14:3892:HOH:O	2.20	0.73
1:13:1335:C:O2	63:13:1928:HOH:O	2.06	0.73
26:1H:971:C:OP2	63:1H:3826:HOH:O	2.05	0.73
26:1H:2347:C:OP1	57:O8:39:TYR:OH	2.05	0.73
34:18:30:ALA:HA	34:28:3:LEU:HG	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:G8:38:ILE:HD11	49:G8:64:GLU:HG3	1.71	0.73
1:1G:572:A:OP2	63:1G:1828:HOH:O	2.05	0.73
46:95:3:ALA:HB2	46:95:99:ILE:HG21	1.69	0.73
1:13:542:G:OP1	4:3E:10:ARG:NH2	2.22	0.73
26:1H:800:A:OP1	63:1H:3839:HOH:O	2.06	0.73
26:1H:1046:A:N7	36:38:3:ASN:ND2	2.34	0.73
22:1L:10:G:H22	22:1L:27:A:H1'	1.52	0.73
26:14:801:G:OP2	63:14:3805:HOH:O	2.07	0.73
26:14:2499:C:OP1	63:14:3738:HOH:O	2.04	0.73
1:13:664:G:H22	1:13:741:G:H1	1.34	0.73
24:3K:5:C:O2	24:3K:69:G:N2	2.17	0.73
26:1H:586:A:OP2	63:1H:3834:HOH:O	2.06	0.73
26:1H:780:G:H21	26:1H:783:A:N6	1.85	0.73
2:1E:87:ARG:NH2	2:1E:220:ASP:OD1	2.20	0.73
20:BI:69:GLY:O	20:BI:73:HIS:NE2	2.21	0.73
1:1G:240:C:O2	1:1G:286:G:N2	2.19	0.73
26:14:1616:A:O2'	63:14:3796:HOH:O	2.04	0.73
49:C5:48:ALA:HB3	49:C5:59:GLY:HA3	1.69	0.73
1:13:963:G:N2	1:13:972:C:N3	2.29	0.73
26:1H:1676:A:OP2	63:1H:3841:HOH:O	2.06	0.73
26:1H:2105:C:H2'	26:1H:2106:G:H8	1.53	0.73
26:1H:2504:U:OP1	63:1H:3845:HOH:O	2.07	0.73
26:1H:2878:U:O4	63:1H:3820:HOH:O	2.04	0.73
32:41:113:ARG:NE	55:M8:34:GLU:OE1	2.17	0.73
37:48:90:LYS:O	37:48:92:GLY:N	2.22	0.73
50:H8:61:LEU:HD22	50:H8:67:LEU:HD11	1.69	0.73
26:14:1358:G:N1	63:14:3744:HOH:O	2.22	0.73
26:14:2074:U:OP1	63:14:3804:HOH:O	2.06	0.73
1:13:35:G:O2'	12:3I:118:SER:O	2.05	0.73
26:1H:48:G:O6	63:1H:3847:HOH:O	2.07	0.73
26:1H:70:G:H21	26:1H:71:A:N6	1.86	0.73
26:1H:509:C:OP1	63:1H:3840:HOH:O	2.06	0.73
26:1H:723:G:O6	63:1H:3836:HOH:O	2.06	0.73
26:1H:1828:G:OP1	63:1H:3835:HOH:O	2.06	0.73
30:21:38:THR:HG23	30:21:41:LYS:H	1.53	0.73
54:L8:26:LEU:HB2	54:L8:28:LEU:HD12	1.71	0.73
1:1G:5:U:H4'	1:1G:5:U:OP1	1.89	0.73
11:2A:29:ILE:HG22	11:2A:44:SER:HB2	1.70	0.73
24:3L:57:C:H2'	24:3L:58:G:C8	2.24	0.73
26:1H:761:A:N7	63:1H:3936:HOH:O	2.21	0.73
26:1H:2751:G:H1'	33:51:3:ARG:CZ	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:7A:14:ASN:OD1	16:7A:42:ARG:NH2	2.22	0.73
26:14:1676:A:OP2	63:14:3806:HOH:O	2.07	0.73
26:14:1997:G:OP2	63:14:3801:HOH:O	2.05	0.73
12:3I:33:ARG:HG2	12:3I:60:LEU:HD11	1.71	0.73
26:1H:2062:A:H2'	26:1H:2062:A:N3	2.03	0.73
22:1L:15:G:N2	22:1L:22:A:H1'	2.02	0.73
35:69:110:ASP:N	35:69:130:TYR:OH	2.20	0.73
1:13:1417:G:O6	63:13:1920:HOH:O	2.02	0.72
31:31:179:GLU:CD	31:31:179:GLU:H	1.97	0.72
40:78:79:ARG:HB2	40:78:110:TYR:HD1	1.54	0.72
2:12:74:LYS:NZ	2:12:205:ASP:O	2.20	0.72
26:1H:363(B):G:H2'	26:1H:363(C):G:C8	2.25	0.72
26:1H:409:C:OP1	63:1H:3851:HOH:O	2.07	0.72
26:1H:1602:U:O4	63:1H:3796:HOH:O	2.06	0.72
36:38:93:LEU:HD21	36:38:98:LYS:O	1.88	0.72
22:1L:56:PSU:HN1	41:45:60:ARG:HH22	1.35	0.72
26:14:654(C):G:H22	26:14:654(R):C:H1'	1.53	0.72
26:14:2415:G:H4'	40:35:67:MET:N	2.03	0.72
27:1J:25:A:OP1	63:1J:301:HOH:O	2.05	0.72
1:13:1110:A:OP2	63:13:1931:HOH:O	2.08	0.72
26:1H:121:G:OP1	63:1H:3855:HOH:O	2.08	0.72
26:1H:2068:U:N3	26:1H:2430:A:H2	1.86	0.72
29:11:69:ARG:NH2	29:11:128:GLY:O	2.19	0.72
37:48:51:ALA:HB3	37:48:76:TYR:HA	1.70	0.72
26:14:517:C:OP2	56:J5:13:LYS:NZ	2.21	0.72
26:14:1053:C:N4	26:14:1106:G:O6	2.18	0.72
26:14:1332:G:H5"	63:14:3875:HOH:O	1.89	0.72
26:14:1417:C:OP2	63:14:3812:HOH:O	2.08	0.72
29:19:255:LYS:H	29:19:255:LYS:HZ2	1.36	0.72
26:1H:2053:G:OP2	63:1H:3838:HOH:O	2.06	0.72
43:65:106:ARG:NH2	43:65:107:GLU:OE1	2.22	0.72
1:13:346:G:O2'	44:B8:41:ARG:NH1	2.23	0.72
11:2I:69:ALA:HB1	11:2I:73:MET:HE2	1.71	0.72
11:2A:82:VAL:HB	11:2A:108:ILE:HG12	1.70	0.72
26:14:575:A:O3'	63:14:3810:HOH:O	2.07	0.72
26:14:780:G:H21	26:14:783:A:N6	1.85	0.72
26:14:1378:A:O2'	26:14:1380:G:N7	2.18	0.72
26:14:1604:C:OP1	63:14:3719:HOH:O	2.06	0.72
26:14:2636:U:OP1	30:29:80:GLU:HB2	1.89	0.72
40:35:96:THR:HG23	40:35:99:LEU:HB3	1.71	0.72
52:F5:92:LYS:O	52:F5:95:LEU:N	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:54:G:O6	63:1H:3844:HOH:O	2.07	0.72
26:1H:2838:G:N7	63:1H:3987:HOH:O	2.22	0.72
30:21:27:LEU:HD13	44:B8:1:MET:HE2	1.71	0.72
1:1G:502:G:O2'	63:1G:1829:HOH:O	2.07	0.72
26:14:751:A:OP1	63:14:3809:HOH:O	2.07	0.72
33:59:86:GLU:HG3	33:59:165:ALA:HB2	1.71	0.72
1:13:1422:G:H5'	39:68:48:PRO:HB3	1.71	0.72
1:1G:167:G:O6	63:1G:1827:HOH:O	2.04	0.72
26:14:1169:G:H1	26:14:1180:C:H42	1.36	0.72
26:14:1210:A:H5'	26:14:1212:G:H5'	1.71	0.72
1:13:501:C:H2'	1:13:502:G:H8	1.55	0.72
26:1H:192:C:OP1	63:1H:3833:HOH:O	2.06	0.72
26:1H:2255:G:OP2	63:1H:3843:HOH:O	2.06	0.72
36:38:39:ALA:HA	36:38:42:GLN:HB3	1.72	0.72
46:D8:14:VAL:HB	46:D8:96:ILE:HG13	1.72	0.72
1:1G:1095:U:P	1:1G:1108:G:H1	2.12	0.72
26:14:831:G:OP1	63:14:3808:HOH:O	2.07	0.72
26:14:1828:G:OP1	63:14:3807:HOH:O	2.07	0.72
33:59:117:PRO:HB3	33:59:123:PHE:HE2	1.53	0.72
43:65:3:ARG:HH21	43:65:4:LEU:HB2	1.55	0.72
1:13:737:A:H2'	1:13:738:C:H6	1.52	0.72
1:13:1197:G:OP2	63:13:1911:HOH:O	2.06	0.72
1:13:1305:G:N2	1:13:1331:G:H2'	2.03	0.72
26:1H:773:U:OP1	63:1H:3852:HOH:O	2.07	0.72
26:1H:1244:G:N7	63:1H:3998:HOH:O	2.23	0.72
26:14:386:G:O3'	63:14:3814:HOH:O	2.08	0.72
26:14:1534:G:H3'	26:14:1535:U:C5'	2.20	0.72
50:D5:59:LEU:O	50:D5:61:LEU:N	2.22	0.72
1:13:1423:G:OP1	39:68:49:ARG:NH2	2.23	0.72
26:1H:2846:G:N7	63:1H:3996:HOH:O	2.23	0.72
42:98:57:ARG:HB3	42:98:59:ASP:OD1	1.90	0.72
1:1G:628:G:H2'	1:1G:629:G:C8	2.25	0.72
1:1G:1435:G:H2'	1:1G:1436:U:C6	2.25	0.72
26:14:1166:C:O2'	63:14:3818:HOH:O	2.08	0.72
29:19:71:ASP:OD1	29:19:103:ARG:NH2	2.23	0.72
31:39:58:ALA:O	63:39:401:HOH:O	2.07	0.72
1:13:601:C:H2'	1:13:602:A:C8	2.25	0.71
1:13:937:A:OP2	63:13:1934:HOH:O	2.08	0.71
9:8E:13:ALA:HB2	9:8E:68:GLY:HA3	1.72	0.71
26:1H:1869:G:N7	63:1H:3981:HOH:O	2.22	0.71
30:21:127:ASP:OD2	63:21:403:HOH:O	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:977:A:HO2'	1:1G:981:U:H3	1.37	0.71
29:19:12:SER:HB2	29:19:208:LYS:HB3	1.72	0.71
50:D5:33:LEU:HD23	50:D5:90:VAL:HG21	1.72	0.71
50:D5:79:ARG:HB3	50:D5:80:ARG:HG3	1.72	0.71
1:13:963:G:H21	10:1I:55:LYS:CE	2.03	0.71
26:1H:805:G:OP1	63:1H:3857:HOH:O	2.08	0.71
26:1H:851:U:OP1	54:L8:49:LYS:NZ	2.17	0.71
26:1H:1781:C:H3'	63:1H:3730:HOH:O	1.88	0.71
38:58:39:ARG:NH2	38:58:41:ASP:OD2	2.23	0.71
38:58:56:ASN:N	38:58:125:GLY:O	2.16	0.71
45:85:100:VAL:O	45:85:101:ARG:HG2	1.90	0.71
26:1H:1670:C:OP1	63:1H:3856:HOH:O	2.08	0.71
26:1H:2433:A:OP2	63:1H:3842:HOH:O	2.06	0.71
26:1H:2598:A:OP1	63:1H:3837:HOH:O	2.06	0.71
1:1G:973:G:O2'	10:1A:54:PHE:O	2.09	0.71
7:62:16:LEU:HD21	9:82:45:ALA:HB2	1.73	0.71
8:72:12:ARG:HD3	8:72:26:VAL:HG12	1.71	0.71
32:49:161:THR:HG22	32:49:163:ALA:H	1.55	0.71
40:35:8:PRO:HG2	40:35:13:ASN:HD22	1.53	0.71
26:1H:2891:G:OP2	63:1H:3850:HOH:O	2.07	0.71
36:38:23:SER:CB	36:38:68:LEU:HB2	2.20	0.71
26:14:2448:A:OP1	63:14:3820:HOH:O	2.08	0.71
28:79:165:ASN:ND2	28:79:166:ASP:O	2.20	0.71
30:29:55:ASN:HB3	30:29:58:ARG:HD2	1.71	0.71
48:B5:63:LYS:H	48:B5:63:LYS:HE3	1.54	0.71
1:13:1286:A:H2'	1:13:1287:A:H4'	1.70	0.71
2:1E:118:LEU:HD12	2:1E:142:LEU:HB2	1.70	0.71
26:1H:748:G:OP2	63:1H:3848:HOH:O	2.07	0.71
26:1H:1059:G:O6	26:1H:1079:C:N4	2.23	0.71
26:1H:1377:G:O6	63:1H:3861:HOH:O	2.09	0.71
26:1H:1782:C:OP1	63:1H:3745:HOH:O	2.08	0.71
26:1H:2713:A:OP2	63:1H:3854:HOH:O	2.07	0.71
3:22:88:ARG:HG3	3:22:101:LEU:HD12	1.70	0.71
4:32:94:LEU:HA	4:32:97:LEU:HD12	1.73	0.71
26:14:2327:A:H2'	26:14:2328:A:C8	2.25	0.71
30:29:135:HIS:NE2	63:29:401:HOH:O	2.22	0.71
52:F5:87:PRO:HA	52:F5:90:ILE:HG23	1.73	0.71
1:13:509:A:OP2	63:13:1933:HOH:O	2.08	0.71
26:1H:2052:G:H4'	30:21:143:ASN:O	1.90	0.71
26:14:1156:A:OP2	63:14:3811:HOH:O	2.07	0.71
45:85:66:ASN:HB2	45:85:76:TYR:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:178:ARG:NH1	2:1E:196:LEU:O	2.23	0.71
20:BI:64:ASP:OD1	20:BI:64:ASP:N	2.21	0.71
22:1K:6:C:N3	22:1K:68:G:N2	2.38	0.71
1:1G:683:G:H2'	1:1G:684:A:C8	2.26	0.71
26:14:1635:G:OP1	63:14:3822:HOH:O	2.08	0.71
30:29:181:LEU:HD11	44:75:7:ILE:HD11	1.71	0.71
1:13:567:G:OP2	63:13:1938:HOH:O	2.09	0.71
32:41:37:VAL:HG22	32:41:159:VAL:HG12	1.72	0.71
32:41:165:THR:HB	32:41:168:GLU:HG3	1.71	0.71
2:12:54:THR:HG23	2:12:199:TYR:HB3	1.72	0.71
26:14:2031:A:N3	26:14:2455:G:O2'	2.22	0.71
41:45:66:ILE:HG22	41:45:104:PHE:HE1	1.56	0.71
26:1H:574:C:OP2	63:1H:3859:HOH:O	2.08	0.71
33:51:54:ARG:HD3	33:51:65:HIS:ND1	2.06	0.71
1:1G:1401:G:N7	63:1G:1850:HOH:O	2.23	0.71
1:1G:1460:A:OP2	20:BA:27:LYS:NZ	2.23	0.71
4:32:60:GLU:OE2	4:32:199:ASN:N	2.24	0.71
24:3L:30:C:O2	24:3L:42:G:N2	2.19	0.71
26:14:323:G:O2'	26:14:1205:U:N3	2.24	0.71
1:13:376:G:H1	1:13:387:U:H3	1.39	0.71
1:13:886:G:OP2	63:13:1935:HOH:O	2.09	0.71
10:1I:49:VAL:HG22	14:5I:41:ARG:HB2	1.72	0.71
26:1H:1619:G:N7	63:1H:3991:HOH:O	2.22	0.71
26:1H:2475:C:H1'	26:1H:2476:A:C8	2.25	0.71
52:J8:83:GLU:HG2	52:J8:85:LEU:H	1.56	0.71
1:1G:54:C:N4	1:1G:353:A:OP2	2.24	0.71
5:42:43:LEU:HD22	5:42:136:MET:HG3	1.72	0.71
13:4A:67:GLU:O	13:4A:70:LEU:N	2.24	0.71
26:14:2719:G:OP2	63:14:3813:HOH:O	2.08	0.71
32:49:41:GLN:NE2	32:49:154:GLY:O	2.20	0.71
39:25:68:GLU:HB3	39:25:78:ARG:HB3	1.71	0.71
46:95:35:LEU:O	46:95:37:VAL:HG22	1.91	0.71
48:B5:41:ASN:HA	48:B5:44:GLU:HB2	1.73	0.71
1:13:565:U:OP2	63:13:1936:HOH:O	2.09	0.70
23:2K:54:G:H2'	23:2K:55:5MU:H6	1.55	0.70
26:1H:399:G:OP2	63:1H:3853:HOH:O	2.07	0.70
26:1H:577:G:O6	63:1H:3858:HOH:O	2.08	0.70
26:1H:600:G:N2	26:1H:605:C:O3'	2.24	0.70
26:1H:1839:G:OP2	63:1H:3865:HOH:O	2.09	0.70
26:1H:2157:G:O2'	26:1H:2158:A:OP2	2.09	0.70
41:45:75:THR:HA	41:45:89:ASN:HA	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:75:50:ILE:HD11	44:75:102:ILE:HD11	1.72	0.70
1:13:21:G:OP1	63:13:1930:HOH:O	2.07	0.70
1:13:737:A:H2'	1:13:738:C:C6	2.26	0.70
8:7E:120:THR:H	8:7E:123:GLU:HG3	1.55	0.70
24:3K:12:U:O4	24:3K:24:A:N6	2.20	0.70
26:1H:389:G:N1	40:78:71:VAL:HG12	2.05	0.70
26:1H:1388:G:H2'	26:1H:1389:G:C8	2.26	0.70
1:1G:963:G:H21	10:1A:55:LYS:HD3	1.55	0.70
19:AA:36:ARG:HA	19:AA:71:LEU:HD12	1.73	0.70
26:14:58:G:O6	63:14:3832:HOH:O	2.10	0.70
26:14:2035:G:OP1	63:14:3819:HOH:O	2.08	0.70
33:59:54:ARG:NH2	33:59:57:ASP:OD1	2.24	0.70
43:65:21:THR:HB	43:65:23:ARG:HG2	1.73	0.70
26:1H:1269:A:OP2	63:1H:3766:HOH:O	2.07	0.70
54:L8:13:ILE:O	63:L8:101:HOH:O	2.09	0.70
1:1G:1224:G:N2	1:1G:1322:C:H4'	2.06	0.70
17:8A:45:HIS:HB2	17:8A:65:ILE:HD13	1.73	0.70
1:13:659:U:H2'	1:13:660:G:C8	2.27	0.70
1:13:1205:U:O4	63:13:1927:HOH:O	2.06	0.70
2:1E:100:GLY:O	2:1E:104:ASN:N	2.20	0.70
26:1H:1838:C:O3'	63:1H:3863:HOH:O	2.09	0.70
36:38:41:ARG:HA	36:38:47:ASN:HD21	1.57	0.70
48:F8:15:GLU:H	48:F8:15:GLU:CD	1.99	0.70
26:14:654(B):C:H2'	26:14:654(C):G:C8	2.27	0.70
26:14:1022:G:H22	26:14:1142(A):A:H2	1.39	0.70
26:14:1971:A:OP1	63:14:3827:HOH:O	2.09	0.70
29:19:223:GLY:HA2	29:19:226:MET:HG3	1.70	0.70
1:13:816:A:OP2	63:13:1932:HOH:O	2.08	0.70
20:BI:30:LYS:HE2	20:BI:80:ARG:HH12	1.53	0.70
26:1H:342:G:O6	63:1H:3831:HOH:O	2.05	0.70
26:1H:945:A:OP1	63:1H:3860:HOH:O	2.08	0.70
26:1H:2495:G:H5"	41:88:82:ARG:HB3	1.74	0.70
33:51:4:ILE:HG21	33:51:6:ARG:NE	2.07	0.70
33:51:157:TYR:O	33:51:158:HIS:ND1	2.25	0.70
53:K8:41:ILE:HD13	53:K8:44:LEU:HG	1.71	0.70
1:1G:353:A:H5'	1:1G:353:A:H8	1.55	0.70
5:42:102:ALA:HB1	5:42:106:PRO:HG2	1.73	0.70
26:14:1153:C:OP1	45:85:93:LYS:NZ	2.25	0.70
40:35:66:GLY:HA2	40:35:68:GLN:HG2	1.74	0.70
50:D5:193:GLU:H	50:D5:194:PRO:HD3	1.55	0.70
5:4E:142:LEU:O	5:4E:143:ARG:NH1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:761:A:H5"	63:1H:3941:HOH:O	1.91	0.70
26:1H:1210:A:H5'	26:1H:1210:A:H8	1.56	0.70
42:98:27:SER:HB3	42:98:34:ILE:HD11	1.74	0.70
1:1G:573:A:OP2	63:1G:1828:HOH:O	2.10	0.70
1:1G:774:G:N7	63:1G:1854:HOH:O	2.24	0.70
26:14:2547:U:O2	39:25:23:ARG:NH2	2.24	0.70
26:14:2701:C:H3'	26:14:2702:U:C5'	2.20	0.70
40:35:14:LYS:O	40:35:16:ARG:N	2.24	0.70
45:85:98:LEU:HB2	45:85:102:GLU:HB2	1.73	0.70
26:1H:971:C:OP2	63:1H:3874:HOH:O	2.10	0.70
26:1H:973:A:OP2	63:1H:3864:HOH:O	2.09	0.70
30:21:97:LYS:N	30:21:100:GLU:OE1	2.18	0.70
31:31:63:LYS:HE3	31:31:67:GLN:HB2	1.73	0.70
18:9A:32:ARG:HD3	18:9A:65:ILE:HD13	1.72	0.70
26:14:800:A:OP1	63:14:3824:HOH:O	2.09	0.70
26:1H:1665:A:N6	63:1H:3892:HOH:O	2.12	0.70
30:21:4:ILE:HD13	30:21:28:ALA:HB1	1.73	0.70
35:61:98:ALA:HB2	35:61:111:PRO:HB3	1.71	0.70
3:22:8:ILE:HG23	3:22:16:ARG:HG2	1.73	0.70
3:22:63:ASN:HA	3:22:98:ASN:HB2	1.73	0.70
12:3A:78:GLN:HG2	12:3A:81:SER:HB3	1.72	0.70
26:14:1138:G:H21	38:15:106:MET:HE3	1.56	0.70
48:B5:9:LEU:HA	53:G5:36:ARG:HH21	1.57	0.70
16:7I:53:VAL:HG13	16:7I:79:VAL:HG22	1.73	0.70
26:1H:770:G:OP2	63:1H:3873:HOH:O	2.10	0.70
4:32:19:LEU:HB2	4:32:21:LEU:HD11	1.74	0.70
26:14:31:C:OP1	63:14:3816:HOH:O	2.08	0.70
26:14:192:C:OP2	63:14:3817:HOH:O	2.08	0.70
26:14:1239:G:O6	63:14:3826:HOH:O	2.09	0.70
26:14:1324:G:N7	63:14:3926:HOH:O	2.24	0.70
26:14:2115:G:H21	26:14:2172:U:H3	1.40	0.70
32:49:6:ALA:O	32:49:10:LYS:N	2.20	0.70
32:49:111:LEU:HD11	32:49:120:LEU:HD21	1.72	0.70
1:13:1149:C:H2'	1:13:1150:U:H6	1.57	0.70
2:1E:118:LEU:HB3	2:1E:142:LEU:HD13	1.74	0.70
26:1H:330:A:O2'	26:1H:331:A:H8	1.73	0.70
26:1H:527:C:OP1	63:1H:3871:HOH:O	2.10	0.70
32:41:27:ASN:HB3	32:41:30:GLU:HG3	1.72	0.70
45:C8:92:ARG:O	45:C8:94:ASN:N	2.25	0.70
55:M8:39:CYS:SG	55:M8:41:PRO:HD3	2.32	0.70
1:1G:612:C:O2	1:1G:629:G:N2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:983:A:N1	1:1G:1222:G:N2	2.40	0.70
4:32:57:ARG:HH22	5:42:107:ARG:HD2	1.55	0.70
26:14:1386:C:H2'	26:14:1387:C:H6	1.56	0.70
63:14:3737:HOH:O	30:29:135:HIS:NE2	2.25	0.70
1:13:1263:C:N4	1:13:1272:G:O6	2.16	0.69
1:13:1455:G:OP1	20:BI:35:THR:OG1	2.07	0.69
2:1E:97:TRP:HZ3	2:1E:172:ILE:HB	1.57	0.69
26:1H:202:U:O4	63:1H:3877:HOH:O	2.10	0.69
26:1H:423:A:OP2	63:1H:3872:HOH:O	2.10	0.69
32:41:67:LYS:H	32:41:67:LYS:HE2	1.56	0.69
39:68:47:ILE:HG13	39:68:48:PRO:HD2	1.73	0.69
41:88:37:LEU:HD21	41:88:130:LYS:HE3	1.72	0.69
26:14:770:G:OP2	63:14:3829:HOH:O	2.09	0.69
26:14:1639:U:OP1	63:14:3830:HOH:O	2.09	0.69
1:13:418:C:H2'	1:13:419:C:H6	1.56	0.69
11:2I:34:ASP:HB3	11:2I:40:ILE:HD11	1.72	0.69
26:1H:886:C:O2'	26:1H:890:A:N6	2.24	0.69
26:1H:2074:U:OP1	63:1H:3878:HOH:O	2.10	0.69
26:1H:2789:C:H1'	26:1H:2892:A:H2	1.57	0.69
1:1G:1248:A:N6	1:1G:1288:A:OP2	2.25	0.69
26:14:1364:G:OP2	52:F5:2:SER:N	2.25	0.69
1:13:944:G:OP1	63:13:1937:HOH:O	2.09	0.69
1:13:1167:A:H2'	1:13:1169:A:C8	2.26	0.69
36:38:131:MET:HA	36:38:134:LEU:HD22	1.74	0.69
45:C8:92:ARG:NH2	46:D8:11:GLN:H	1.90	0.69
1:1G:41:G:H2'	1:1G:42:G:C8	2.28	0.69
1:1G:987:G:H1	1:1G:1218:C:H42	1.38	0.69
12:3A:114:LYS:HE3	12:3A:125:PRO:HG3	1.74	0.69
26:14:857:C:H4'	51:E5:23:VAL:HG21	1.72	0.69
26:14:1534:G:H3'	26:14:1535:U:H5"	1.73	0.69
26:14:1680:U:N3	26:14:1764:G:OP2	2.24	0.69
26:14:2304:G:N7	63:14:3928:HOH:O	2.25	0.69
32:49:18:GLU:HG3	32:49:21:ARG:HH21	1.57	0.69
1:13:550:G:OP1	63:13:1942:HOH:O	2.10	0.69
1:13:1034:G:N2	1:13:1035:A:N7	2.32	0.69
1:13:1346:A:H5"	9:8E:120:ARG:HH12	1.56	0.69
26:1H:1009:A:OP2	63:1H:3883:HOH:O	2.11	0.69
1:1G:557:G:OP1	63:1G:1834:HOH:O	2.11	0.69
26:14:568:U:O2'	63:14:3831:HOH:O	2.09	0.69
31:39:192:LEU:HD22	31:39:194:MET:HE2	1.75	0.69
1:13:524:G:H2'	1:13:525:C:C6	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:311:A:OP2	63:1H:3868:HOH:O	2.09	0.69
26:1H:739:G:OP1	63:1H:3870:HOH:O	2.09	0.69
1:1G:1513:A:H2'	1:1G:1514:C:C6	2.27	0.69
10:1A:79:ARG:H	10:1A:79:ARG:HD3	1.58	0.69
26:14:498:G:H21	49:C5:47:LYS:NZ	1.89	0.69
26:14:739:G:OP2	26:14:739:G:H8	1.75	0.69
26:1H:1265:A:O5'	63:1H:3881:HOH:O	2.11	0.69
36:38:4:LYS:HG2	36:38:6:ASN:HB2	1.74	0.69
50:H8:5:LEU:N	50:H8:59:LEU:HA	2.05	0.69
26:14:400:G:O6	63:14:3833:HOH:O	2.10	0.69
54:H5:39:ASP:OD2	54:H5:44:ARG:NH1	2.26	0.69
8:7E:112:LEU:HA	8:7E:134:ILE:HG12	1.73	0.69
26:1H:2056:G:OP2	63:1H:3867:HOH:O	2.09	0.69
1:1G:766:A:OP2	63:1G:1830:HOH:O	2.09	0.69
26:14:1537:C:O2'	26:14:1538:G:O4'	2.11	0.69
49:C5:2:ARG:HG3	49:C5:3:VAL:HG23	1.73	0.69
1:13:247:G:OP2	17:8I:100:LYS:N	2.23	0.69
1:13:306:G:O3'	63:13:1941:HOH:O	2.09	0.69
1:13:510:A:OP2	63:13:1933:HOH:O	2.10	0.69
26:1H:136:G:N7	63:1H:4022:HOH:O	2.26	0.69
26:1H:2547:U:O2	39:68:23:ARG:NH2	2.26	0.69
26:1H:2655:G:O2'	26:1H:2664:G:O6	2.10	0.69
30:21:101:ARG:HG2	30:21:169:ASN:ND2	2.08	0.69
33:51:107:VAL:HB	33:51:152:ARG:HG2	1.73	0.69
37:48:77:LEU:HD13	37:48:111:LYS:HE3	1.73	0.69
38:58:9:VAL:HG11	38:58:39:ARG:HH22	1.58	0.69
43:A8:11:LYS:HD3	43:A8:91:PRO:HD3	1.74	0.69
1:1G:578:C:OP1	63:1G:1832:HOH:O	2.10	0.69
1:1G:1288:A:N3	1:1G:1352:C:O2'	2.26	0.69
3:22:156:ARG:NH2	3:22:159:GLY:O	2.21	0.69
12:3A:52:LEU:O	12:3A:54:LYS:NZ	2.26	0.69
22:1L:9:A:H2	22:1L:24:A:H62	1.41	0.69
26:14:1154:G:OP2	45:85:58:ARG:NH1	2.26	0.69
26:14:1395:A:OP1	63:14:3823:HOH:O	2.09	0.69
26:14:1418:G:H8	26:14:1418:G:O5'	1.75	0.69
41:45:75:THR:HG21	41:45:85:LYS:HE2	1.73	0.69
1:13:735:C:H2'	1:13:736:C:H6	1.58	0.69
26:1H:991:C:H2'	26:1H:992:C:H6	1.56	0.69
26:1H:2061:G:P	63:1H:3763:HOH:O	2.51	0.69
33:51:9:ILE:HD13	33:51:51:ARG:HH21	1.56	0.69
38:58:47:ALA:HB2	38:58:112:LEU:HD11	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1250:A:H4'	9:82:68:GLY:H	1.57	0.69
3:22:37:GLN:O	3:22:41:GLY:N	2.25	0.69
10:1A:99:LYS:HD3	10:1A:100:THR:H	1.58	0.69
26:14:270(I):G:H2'	26:14:270(J):G:H8	1.57	0.69
26:14:774:A:H2	26:14:787:U:HO2'	1.40	0.69
26:14:900:A:H3'	26:14:901:A:H8	1.57	0.69
1:13:1199:U:O4	63:13:1929:HOH:O	2.06	0.69
26:14:498:G:H21	49:C5:47:LYS:HZ2	1.41	0.69
26:14:2148:G:H2'	26:14:2149:G:H8	1.56	0.69
35:69:111:PRO:O	35:69:112:LYS:HG2	1.92	0.69
41:45:31:ASP:O	41:45:134:ARG:HB3	1.93	0.69
45:85:90:VAL:HG22	46:95:39:LEU:HD23	1.75	0.69
1:13:177:C:OP1	20:BI:65:LYS:NZ	2.24	0.68
26:1H:1332:G:N2	26:1H:1609:A:O2'	2.26	0.68
26:1H:1357:U:OP2	63:1H:3866:HOH:O	2.09	0.68
26:1H:1975:G:OP2	63:1H:3886:HOH:O	2.11	0.68
54:L8:7:LYS:HB2	54:L8:34:GLU:HG3	1.75	0.68
1:1G:934:C:OP1	63:1G:1833:HOH:O	2.10	0.68
1:1G:1148:U:H2'	1:1G:1149:C:O4'	1.93	0.68
1:13:1108:G:O6	63:13:1939:HOH:O	2.09	0.68
26:1H:510:C:H5"	63:1H:3821:HOH:O	1.93	0.68
40:78:50:ARG:HD3	59:Q8:7:HIS:CD2	2.27	0.68
40:78:114:ILE:HD13	40:78:125:VAL:HG11	1.75	0.68
1:1G:1206:G:OP1	3:22:190:ARG:NH2	2.26	0.68
1:1G:1423:G:OP1	39:25:49:ARG:NH2	2.27	0.68
5:42:16:THR:OG1	5:42:17:ALA:N	2.24	0.68
26:14:945:A:OP1	63:14:3841:HOH:O	2.12	0.68
26:14:2816:C:O3'	42:55:99:LYS:NZ	2.26	0.68
33:59:102:ALA:HB2	33:59:117:PRO:HD3	1.75	0.68
1:13:81:G:H2'	1:13:82:U:O4'	1.93	0.68
26:1H:1593:G:H2'	26:1H:1594:G:C8	2.27	0.68
26:1H:1968:G:OP1	63:1H:3879:HOH:O	2.11	0.68
26:1H:2014:A:OP1	63:1H:3888:HOH:O	2.12	0.68
1:1G:589:C:H42	1:1G:650:G:H1	1.41	0.68
2:12:19:HIS:NE2	2:12:206:ASP:HB2	2.09	0.68
2:12:236:TYR:CB	2:12:239:VAL:HB	2.23	0.68
4:32:191:ARG:NH2	4:32:200:GLU:OE1	2.26	0.68
26:14:2005:A:OP1	63:14:3837:HOH:O	2.10	0.68
1:13:491:G:OP1	4:3E:151:LYS:NZ	2.25	0.68
1:1G:1278:U:O2	3:22:27:LYS:NZ	2.22	0.68
26:14:2844:G:N7	63:14:3933:HOH:O	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B5:12:VAL:HG12	48:B5:29:TRP:CE2	2.29	0.68
1:13:1127:G:N7	1:13:1128:C:N4	2.41	0.68
26:1H:1187:G:OP2	63:1H:3891:HOH:O	2.12	0.68
26:1H:2712(A):A:OP2	63:1H:3875:HOH:O	2.10	0.68
2:12:82:ARG:NE	2:12:92:TYR:OH	2.26	0.68
26:14:1226:G:H4'	46:95:84:LYS:HG3	1.74	0.68
52:F5:7:ILE:HG12	52:F5:91:LYS:HE3	1.75	0.68
26:1H:805:G:OP1	63:1H:3884:HOH:O	2.11	0.68
26:1H:890:A:H8	26:1H:892:G:C8	2.11	0.68
26:14:1300:U:OP1	63:14:3843:HOH:O	2.12	0.68
1:13:1446:A:OP1	1:13:1446:A:H4'	1.92	0.68
26:1H:65:C:H2'	26:1H:66:C:H6	1.57	0.68
26:1H:2057:A:OP2	63:1H:3894:HOH:O	2.12	0.68
1:1G:503:C:OP2	12:3A:116:SER:HB3	1.94	0.68
1:1G:538:G:O6	63:1G:1837:HOH:O	2.11	0.68
1:1G:736:C:H2'	1:1G:737:A:C8	2.29	0.68
2:12:166:ASP:CB	2:12:169:LYS:HB2	2.24	0.68
26:14:1069:A:O2'	26:14:1072:C:OP1	2.12	0.68
38:15:55:VAL:HB	38:15:126:PRO:HA	1.75	0.68
1:13:869:G:OP2	63:13:1943:HOH:O	2.11	0.68
26:1H:67:U:H3	26:1H:74:A:H2	1.41	0.68
14:5A:21:TYR:HE1	14:5A:23:ARG:HE	1.41	0.68
26:14:1187:G:H5"	46:95:81:TYR:CE1	2.28	0.68
40:35:146:VAL:HG22	40:35:147:LEU:H	1.59	0.68
41:45:135:ASP:OD2	50:D5:81:ARG:NH1	2.24	0.68
1:13:129(A):G:H4'	1:13:130:A:H5"	1.75	0.68
1:13:1366:C:O2'	10:1I:60:ARG:NH1	2.22	0.68
10:1I:40:LEU:HB2	10:1I:69:ASN:HB2	1.75	0.68
18:9I:25:THR:HB	18:9I:42:ARG:HH21	1.59	0.68
26:1H:1651:G:N7	63:1H:4028:HOH:O	2.27	0.68
30:21:47:VAL:HG11	30:21:86:PRO:HD2	1.76	0.68
1:1G:53:A:OP2	63:1G:1838:HOH:O	2.12	0.68
1:1G:1184:G:H2'	1:1G:1185:G:H8	1.59	0.68
13:4A:49:THR:HG22	13:4A:51:ALA:H	1.57	0.68
26:14:71:A:H5'	26:14:71:A:C8	2.29	0.68
26:14:71:A:OP2	26:14:71:A:H3'	1.94	0.68
26:14:2751:G:H22	33:59:2:SER:HB3	1.58	0.68
39:25:58:VAL:HG21	39:25:86:ILE:HD13	1.75	0.68
1:13:863:U:OP1	63:13:1945:HOH:O	2.12	0.68
1:13:1147:C:O2	9:8E:16:ARG:NH1	2.27	0.68
8:7E:45:ILE:HD12	8:7E:47:GLY:HA2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:11:10:THR:OG1	29:11:13:ARG:HB2	1.94	0.68
35:61:81:VAL:HG11	35:61:88:ILE:HD12	1.76	0.68
1:1G:405:U:O4	4:32:2:GLY:N	2.27	0.68
1:1G:1449:C:H3'	1:1G:1450:U:H4'	1.75	0.68
2:12:75:LYS:HA	2:12:78:GLN:HB2	1.76	0.68
4:32:64:LEU:HB2	4:32:198:VAL:HG11	1.76	0.68
6:52:7:ASN:HD21	18:9A:34:TYR:HE1	1.42	0.68
10:1A:10:GLY:HA3	10:1A:16:LEU:HD21	1.74	0.68
26:14:1352:U:OP1	63:14:3836:HOH:O	2.10	0.68
26:14:1428:C:N4	26:14:1570:A:OP2	2.23	0.68
26:14:1495:A:OP2	63:14:3838:HOH:O	2.11	0.68
27:1J:13:A:N1	27:1J:69:G:O2'	2.27	0.68
30:29:60:ASN:HB2	30:29:62:PRO:HD2	1.75	0.68
31:31:178:PRO:HB2	31:31:201:VAL:HG11	1.76	0.67
1:1G:53:A:OP2	63:1G:1831:HOH:O	2.10	0.67
1:1G:1219:U:OP1	14:5A:19:ARG:NH1	2.22	0.67
26:14:1651:G:OP1	42:55:40:LYS:NZ	2.27	0.67
26:14:2068:U:OP2	63:14:3842:HOH:O	2.12	0.67
26:1H:1776:G:OP2	63:1H:3882:HOH:O	2.11	0.67
26:1H:1849:G:OP2	63:1H:3902:HOH:O	2.13	0.67
27:16:55:U:O4	63:16:304:HOH:O	2.12	0.67
32:41:119:GLY:HA3	32:41:181:ARG:HG3	1.77	0.67
37:48:101:TRP:H	37:48:101:TRP:CD1	2.10	0.67
1:1G:371:G:H1	1:1G:390:C:H42	1.41	0.67
1:1G:1128:C:H5"	9:82:16:ARG:HH22	1.57	0.67
2:12:8:LYS:HE2	2:12:217:ARG:HD2	1.76	0.67
10:1A:8:LEU:HG	10:1A:96:ILE:HG22	1.76	0.67
26:14:1689:A:H62	26:14:1698:A:H2	1.42	0.67
28:79:201:PRO:HG2	28:79:204:ALA:HB2	1.76	0.67
29:19:255:LYS:H	29:19:255:LYS:CE	2.07	0.67
1:13:532:A:H2	1:13:1206:G:H21	1.43	0.67
30:21:28:ALA:HB3	30:21:93:VAL:HG12	1.75	0.67
32:41:165:THR:HG22	32:41:167:GLU:H	1.58	0.67
1:1G:1305:G:N2	1:1G:1331:G:H2'	2.06	0.67
26:14:69:C:N4	63:14:3832:HOH:O	2.27	0.67
26:14:971:C:H2'	26:14:972:G:O4'	1.95	0.67
26:14:1560:G:OP1	63:14:3839:HOH:O	2.12	0.67
26:14:1579:A:H2'	26:14:1580:A:C8	2.30	0.67
26:14:2287:A:H62	26:14:2344:U:H3	1.39	0.67
30:29:5:LEU:HD22	30:29:5:LEU:H	1.59	0.67
32:49:136:ARG:NH1	32:49:137:GLU:OE1	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:G5:50:ILE:HD12	53:G5:51:ARG:H	1.59	0.67
18:9I:47:THR:HA	18:9I:83:GLU:HB2	1.77	0.67
26:1H:1332:G:OP1	63:1H:3895:HOH:O	2.12	0.67
26:1H:2213:U:O2	52:J8:52:ARG:NH2	2.26	0.67
36:38:12:THR:HG21	36:38:17:LEU:HD22	1.75	0.67
47:E8:88:ARG:HB3	47:E8:92:ARG:HB2	1.75	0.67
1:1G:1060:C:H5"	10:1A:51:ARG:HG2	1.76	0.67
2:12:104:ASN:OD1	2:12:107:THR:OG1	2.12	0.67
26:14:2024:G:O6	63:14:3825:HOH:O	2.09	0.67
1:13:1461:G:N7	63:13:1977:HOH:O	2.27	0.67
2:1E:45:GLN:NE2	2:1E:49:GLU:OE2	2.27	0.67
9:8E:91:ASP:OD1	9:8E:91:ASP:N	2.24	0.67
26:1H:654(C):G:H1'	26:1H:654(S):G:H22	1.58	0.67
26:1H:731:C:OP2	63:1H:3889:HOH:O	2.12	0.67
33:51:6:ARG:HB3	33:51:65:HIS:CG	2.29	0.67
26:14:72:U:OP1	48:B5:1:MET:N	2.27	0.67
27:1J:2:C:H2'	27:1J:3:C:C6	2.29	0.67
27:1J:44:G:O2'	27:1J:47:C:N4	2.28	0.67
1:13:584:G:H5'	17:8I:91:ARG:HH21	1.59	0.67
1:13:859:A:H2'	1:13:860:A:C8	2.29	0.67
1:13:1187:G:O5'	9:8E:113:LYS:NZ	2.26	0.67
26:1H:631:A:OP2	59:Q8:47:LYS:NZ	2.28	0.67
26:1H:1405:U:H2'	26:1H:1406:U:C6	2.29	0.67
26:1H:1594:G:OP1	63:1H:3908:HOH:O	2.13	0.67
26:1H:2334:G:O6	51:I8:74:ARG:NH2	2.28	0.67
1:1G:1348:U:N3	1:1G:1374:A:H2	1.90	0.67
26:14:654(B):C:O2'	26:14:654(S):G:N2	2.27	0.67
26:14:2079:U:O3'	52:F5:35:THR:OG1	2.13	0.67
27:1J:52:A:H62	43:65:33:LYS:HG3	1.60	0.67
31:39:157:VAL:HB	31:39:194:MET:HG3	1.76	0.67
38:15:62:VAL:HG22	38:15:66:LYS:HD2	1.77	0.67
1:13:80:G:H5'	1:13:81:G:OP2	1.94	0.67
1:13:373:A:H2'	1:13:374:A:H8	1.60	0.67
27:16:12:C:N3	51:I8:74:ARG:NH1	2.43	0.67
50:H8:19:ARG:NH1	50:H8:84:GLU:O	2.28	0.67
26:14:491:G:H2'	26:14:492:A:C8	2.29	0.67
26:14:2168:G:O2'	26:14:2169:A:O5'	2.13	0.67
1:13:353:A:H8	1:13:353:A:H5'	1.60	0.67
1:13:1015:A:H2'	1:13:1016:A:C8	2.29	0.67
9:8E:5:TYR:HE1	9:8E:16:ARG:HG2	1.60	0.67
22:1K:6:C:H42	22:1K:68:G:H1	1.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:409:C:OP1	63:1H:3893:HOH:O	2.12	0.67
26:1H:1997:G:OP2	63:1H:3904:HOH:O	2.13	0.67
1:1G:129(A):G:C6	1:1G:188:U:H4'	2.30	0.67
1:1G:222:U:H2'	1:1G:223:U:H6	1.60	0.67
1:1G:261:U:OP2	20:BA:79:ARG:NH2	2.27	0.67
4:32:60:GLU:HG2	4:32:202:LEU:HB2	1.77	0.67
24:3L:34:U:O2'	24:3L:35:A:O5'	2.12	0.67
26:14:1357:U:OP2	63:14:3840:HOH:O	2.12	0.67
27:1J:15:A:H5'	27:1J:16:G:C8	2.29	0.67
1:13:811:C:N3	63:13:1980:HOH:O	2.28	0.67
26:1H:428:A:OP1	63:1H:3896:HOH:O	2.12	0.67
26:1H:1189:A:OP2	63:1H:3906:HOH:O	2.13	0.67
26:1H:1265:A:OP2	63:1H:3899:HOH:O	2.12	0.67
26:1H:1607:C:H4'	26:1H:1608:A:O5'	1.95	0.67
26:1H:1815:A:O3'	63:1H:3897:HOH:O	2.12	0.67
29:11:31:LYS:O	29:11:35:LYS:NZ	2.27	0.67
6:52:68:PRO:HG2	6:52:71:ARG:HG3	1.77	0.67
26:14:527:C:O2	63:14:3828:HOH:O	2.09	0.67
26:14:863:A:H2'	26:14:864:G:H8	1.59	0.67
29:19:93:ALA:HB3	29:19:105:ILE:HG22	1.76	0.67
1:13:843:U:OP1	1:13:848:C:N4	2.28	0.67
1:13:997:U:H3	1:13:1044:A:H61	1.43	0.67
4:3E:192:GLU:N	4:3E:192:GLU:OE1	2.28	0.67
11:2I:59:TYR:CE2	11:2I:63:LEU:HD11	2.30	0.67
26:1H:143:C:H5'	48:F8:35:THR:HG21	1.77	0.67
26:1H:1986:A:OP1	63:1H:3907:HOH:O	2.13	0.67
1:1G:382:A:H2'	1:1G:383:A:C8	2.29	0.67
1:1G:976:G:H5'	1:1G:1358:U:O2'	1.94	0.67
1:1G:1305:G:O2'	1:1G:1306:A:O5'	2.11	0.67
1:1G:1411:C:H2'	1:1G:1412:C:H6	1.60	0.67
4:32:57:ARG:HE	4:32:205:GLU:HB3	1.60	0.67
26:14:662:G:H5'	40:35:15:ARG:HA	1.77	0.67
26:14:824:A:H1'	26:14:2358:G:N7	2.10	0.67
31:39:133:ASN:HA	31:39:162:LEU:HD23	1.77	0.67
2:1E:97:TRP:CZ3	2:1E:172:ILE:HB	2.30	0.66
26:1H:76:C:O2'	53:K8:62:THR:HG21	1.95	0.66
26:1H:674:G:C1'	31:31:74:ARG:HD3	2.23	0.66
26:1H:725:G:N2	63:1H:3885:HOH:O	2.27	0.66
26:1H:2602:A:OP1	63:1H:3900:HOH:O	2.13	0.66
27:16:21:G:H1	27:16:62:C:H42	1.43	0.66
28:71:189:ILE:HG23	28:71:190:ARG:HD2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:61:21:VAL:HG21	35:61:25:TYR:HD2	1.60	0.66
1:1G:564:C:O2'	8:72:91:ARG:NH2	2.28	0.66
10:1A:49:VAL:HG22	14:5A:41:ARG:HB2	1.76	0.66
18:9A:22:VAL:HG22	18:9A:23:LYS:H	1.60	0.66
26:14:1098:A:H3'	26:14:1099:G:H5"	1.77	0.66
27:1J:5:C:H42	27:1J:115:G:H1	1.43	0.66
35:69:50:ARG:HA	35:69:53:ALA:HB3	1.76	0.66
35:69:76:THR:O	35:69:76:THR:OG1	2.11	0.66
50:D5:80:ARG:HB3	50:D5:82:ARG:NH2	2.10	0.66
6:5E:89:MET:HE1	18:9I:72:ARG:HG2	1.77	0.66
26:1H:1784:A:OP1	63:1H:3909:HOH:O	2.13	0.66
34:18:24:ILE:HG23	34:18:25:ASP:H	1.59	0.66
38:58:97:ARG:H	38:58:100:GLU:HG3	1.60	0.66
42:98:96:ARG:NH2	42:98:117:VAL:HG23	2.11	0.66
1:1G:359:U:H2'	1:1G:360:A:C8	2.31	0.66
1:1G:1273:G:H3'	1:1G:1274:G:C8	2.28	0.66
26:14:5:A:H5'	26:14:2783:G:OP1	1.95	0.66
26:1H:360:G:N7	63:1H:4043:HOH:O	2.29	0.66
26:1H:731:C:OP2	63:1H:3734:HOH:O	2.13	0.66
26:1H:1062:G:H2'	26:1H:1063:G:C8	2.30	0.66
26:1H:1434:A:H61	26:1H:1558:A:N6	1.93	0.66
29:11:142:VAL:HG23	29:11:193:VAL:HA	1.76	0.66
36:38:52:PHE:HB2	36:38:53:VAL:HG22	1.76	0.66
37:48:123:ALA:HA	37:48:126:MET:HB2	1.78	0.66
13:4A:54:VAL:HA	13:4A:57:ARG:HB3	1.78	0.66
26:14:1891:G:O6	63:14:3834:HOH:O	2.10	0.66
29:19:43:ARG:HH21	29:19:43:ARG:CG	2.08	0.66
46:95:67:GLY:O	46:95:88:ARG:HD2	1.95	0.66
1:13:280:C:N3	17:8I:39:SER:N	2.40	0.66
1:13:659:U:H2'	1:13:660:G:H8	1.60	0.66
1:13:661:G:H1	1:13:744:C:H42	1.43	0.66
63:2K:201:HOH:O	26:1H:2601:C:H5"	1.95	0.66
25:4K:8:A:H2'	25:4K:9:G:O4'	1.96	0.66
26:1H:1069:A:O2'	26:1H:1072:C:OP1	2.12	0.66
31:31:67:GLN:HG3	31:31:67:GLN:O	1.94	0.66
32:41:49:ASP:OD1	32:41:51:ARG:NE	2.29	0.66
1:1G:1251:A:O2'	1:1G:1369:C:O2'	2.13	0.66
1:1G:1453:G:O6	20:BA:54:LYS:NZ	2.28	0.66
10:1A:27:ALA:HB2	10:1A:85:LEU:HD11	1.77	0.66
26:14:34:C:H1'	26:14:35:G:OP1	1.95	0.66
26:14:607:U:H3	26:14:621:A:H2	1.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:910:A:H62	41:45:12:GLN:HA	1.61	0.66
1:1G:504:C:OP1	63:1G:1839:HOH:O	2.12	0.66
26:14:2037:G:H2'	26:14:2038:G:C8	2.30	0.66
26:14:2294:C:P	43:65:89:ARG:HH22	2.18	0.66
26:14:2331:G:H4'	51:E5:43:THR:H	1.60	0.66
41:45:34:LEU:HB2	41:45:118:LEU:HD13	1.77	0.66
1:13:1366:C:H2'	1:13:1367:C:H6	1.60	0.66
17:8I:77:VAL:HG12	17:8I:78:GLU:HB2	1.77	0.66
26:1H:243:U:OP1	59:Q8:6:THR:OG1	2.14	0.66
26:1H:1406:U:H2'	26:1H:1407:C:C6	2.30	0.66
29:11:12:SER:O	29:11:16:MET:HG3	1.95	0.66
38:58:13:TRP:N	38:58:133:GLN:OE1	2.28	0.66
57:O8:22:ALA:HB2	57:O8:42:TRP:CZ2	2.30	0.66
24:3L:54:G:H1	24:3L:62:C:N4	1.93	0.66
26:14:34:C:O2'	26:14:35:G:O5'	2.13	0.66
26:14:1581:G:H2'	26:14:1582:C:O4'	1.96	0.66
26:14:2592:G:N7	63:14:3955:HOH:O	2.28	0.66
32:49:11:TYR:OH	32:49:16:ARG:NH2	2.28	0.66
44:75:19:LEU:HD13	44:75:78:LEU:HD21	1.76	0.66
49:C5:89:PHE:CZ	49:C5:91:GLU:HB3	2.30	0.66
1:13:504:C:OP1	63:13:1946:HOH:O	2.13	0.66
1:13:1240:U:OP1	7:6E:119:ARG:NH2	2.28	0.66
2:1E:82:ARG:NE	2:1E:92:TYR:OH	2.29	0.66
5:4E:64:ARG:N	5:4E:64:ARG:HH11	1.94	0.66
26:1H:1049:C:C2'	26:1H:1050:A:H5"	2.23	0.66
26:1H:1813:G:OP2	63:1H:3915:HOH:O	2.14	0.66
40:78:43:GLY:HA3	63:78:306:HOH:O	1.95	0.66
40:78:81:GLN:HG2	40:78:106:LEU:HD23	1.78	0.66
1:1G:1286:A:H2'	1:1G:1287:A:H4'	1.77	0.66
1:1G:1316:G:H22	1:1G:1319:A:H5"	1.57	0.66
26:14:784:A:OP2	63:14:3848:HOH:O	2.13	0.66
27:1J:18:G:H2'	27:1J:19:G:C8	2.30	0.66
28:79:13:LYS:NZ	28:79:31:GLU:O	2.28	0.66
31:39:25:PRO:HB3	31:39:28:ILE:HG23	1.76	0.66
33:59:102:ALA:HB1	33:59:115:VAL:O	1.95	0.66
4:3E:19:LEU:HB3	4:3E:21:LEU:HD21	1.76	0.66
26:1H:1083:U:H4'	36:38:41:ARG:HD3	1.78	0.66
26:1H:1467:C:H42	26:1H:1525:G:H1	1.44	0.66
37:48:60:TYR:HE1	37:48:66:THR:HB	1.59	0.66
1:1G:297:G:N2	1:1G:300:A:OP2	2.28	0.66
1:1G:352:C:OP2	63:1G:1841:HOH:O	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:955:U:H1'	1:1G:1227:A:H61	1.61	0.66
7:62:27:ILE:HA	7:62:30:ILE:HD12	1.77	0.66
21:1B:2:GLY:O	21:1B:4:GLY:N	2.29	0.66
26:14:642:G:N2	26:14:645:C:OP2	2.29	0.66
26:14:2591:C:O3'	63:14:3850:HOH:O	2.13	0.66
26:14:2794:C:H42	26:14:2804:C:H1'	1.60	0.66
50:D5:67:LEU:HD23	50:D5:68:PRO:HD2	1.78	0.66
1:13:142:G:H2'	1:13:143:A:H8	1.61	0.66
1:13:330:C:O2	63:13:1940:HOH:O	2.09	0.66
1:13:407:G:OP1	4:3E:115:ARG:NH2	2.28	0.66
1:13:538:G:H5"	12:3I:114:LYS:HB2	1.76	0.66
9:8E:59:PHE:HZ	9:8E:88:TYR:HE2	1.44	0.66
11:2I:21:ILE:HG12	11:2I:30:VAL:HG12	1.78	0.66
26:1H:2137:C:O2	26:1H:2155:G:N1	2.29	0.66
27:16:40:U:H1'	27:16:45:A:H61	1.60	0.66
1:1G:145:G:H1	1:1G:177:C:H42	1.44	0.66
1:1G:974:A:OP2	14:5A:41:ARG:NH1	2.25	0.66
1:1G:1409:C:N4	63:1G:1853:HOH:O	2.24	0.66
2:12:84:GLU:HB3	2:12:219:VAL:HG11	1.77	0.66
22:1L:6:C:H42	22:1L:68:G:H1	1.44	0.66
24:3L:62:C:O5'	24:3L:62:C:H6	1.79	0.66
26:14:870:A:H5"	41:45:6:ARG:HB3	1.78	0.66
26:14:929:G:N1	63:14:3910:HOH:O	2.23	0.66
26:14:1828:G:OP1	63:14:3846:HOH:O	2.13	0.66
30:29:36:ARG:HG2	30:29:47:VAL:HG22	1.77	0.66
39:25:63:VAL:HB	39:25:102:VAL:HG12	1.76	0.66
43:65:107:GLU:H	43:65:110:LEU:HD11	1.59	0.66
1:13:509:A:N1	63:13:1986:HOH:O	2.29	0.66
1:13:1218:C:H2'	1:13:1219:U:C6	2.31	0.66
26:1H:1887:C:H2'	26:1H:1888:G:H5'	1.77	0.66
26:1H:2781:A:H5'	26:1H:2782:G:H5'	1.77	0.66
34:18:24:ILE:O	34:18:27:LEU:N	2.25	0.66
36:38:120:LYS:HG3	36:38:122:VAL:HG23	1.78	0.66
49:G8:76:CYS:O	49:G8:78:ALA:N	2.24	0.66
26:14:458:G:O6	63:14:3845:HOH:O	2.13	0.66
29:19:43:ARG:HA	29:19:49:ILE:HA	1.77	0.66
1:13:316:G:OP2	1:13:351:G:O2'	2.14	0.65
1:13:1133:G:N7	63:13:1989:HOH:O	2.29	0.65
2:1E:27:LYS:HE2	2:1E:193:ASP:HB2	1.78	0.65
16:7I:3:LYS:HG3	16:7I:24:ALA:HB2	1.77	0.65
26:1H:748:G:OP2	47:E8:88:ARG:HG3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2109:U:H1'	26:1H:2181:G:N2	2.11	0.65
31:31:65:TRP:CZ3	31:31:72:ARG:HB3	2.31	0.65
50:H8:48:PHE:HA	50:H8:51:ALA:HB3	1.78	0.65
57:O8:47:THR:HG22	57:O8:48:VAL:HG23	1.76	0.65
3:22:111:LEU:HD11	3:22:144:SER:HB3	1.78	0.65
20:BA:89:ARG:NH1	20:BA:105:SER:O	2.26	0.65
26:14:761:A:OP2	63:14:3849:HOH:O	2.13	0.65
1:13:1436:U:OP1	20:BI:23:ARG:NH2	2.27	0.65
26:1H:2701:C:H3'	26:1H:2702:U:C5'	2.25	0.65
28:71:46:LYS:HD2	28:71:211:SER:HB3	1.78	0.65
1:1G:158:G:H1	1:1G:163:C:H42	1.41	0.65
1:1G:1443:G:N2	44:75:119:LYS:HB2	2.12	0.65
26:14:320:A:OP1	31:39:135:LYS:NZ	2.28	0.65
26:14:2016:U:O2	56:J5:7:PRO:HG2	1.95	0.65
50:D5:76:LEU:HA	50:D5:83:PRO:HA	1.78	0.65
26:1H:730:C:H3'	63:1H:3889:HOH:O	1.96	0.65
26:1H:880:G:H1	26:1H:897:C:H42	1.45	0.65
26:1H:1042:G:N2	26:1H:1113:U:O2	2.18	0.65
26:1H:1375:C:H3'	63:1H:3747:HOH:O	1.96	0.65
26:1H:1434:A:H61	26:1H:1558:A:H62	1.42	0.65
26:1H:1786:A:H2	26:1H:2606:C:H1'	1.61	0.65
26:1H:1846:G:O6	63:1H:3862:HOH:O	2.09	0.65
37:48:80:LYS:HE2	37:48:107:ILE:HG12	1.78	0.65
56:N8:41:PRO:O	56:N8:44:THR:OG1	2.14	0.65
1:1G:539:A:H2'	1:1G:540:G:C8	2.32	0.65
3:22:20:SER:HB2	3:22:40:ARG:HH22	1.61	0.65
26:14:2425:A:H4'	26:14:2426:A:H5"	1.78	0.65
3:2E:6:HIS:CE1	3:2E:8:ILE:HB	2.31	0.65
4:3E:107:ARG:HH22	4:3E:194:LEU:HD13	1.62	0.65
5:4E:63:ARG:HA	5:4E:66:MET:HE2	1.77	0.65
26:1H:974(A):C:OP1	63:1H:3918:HOH:O	2.15	0.65
27:16:82:G:N7	63:16:310:HOH:O	2.30	0.65
33:51:30:LYS:HE3	33:51:81:GLU:H	1.61	0.65
35:61:79:ILE:HB	35:61:141:LYS:O	1.97	0.65
37:48:12:LEU:HB3	37:48:13:PRO:HA	1.79	0.65
38:58:38:HIS:NE2	38:58:50:ASP:OD2	2.27	0.65
48:F8:5:TYR:O	53:K8:36:ARG:NH2	2.30	0.65
55:M8:18:CYS:SG	55:M8:39:CYS:HB2	2.37	0.65
26:14:162:U:H4'	26:14:171:G:O4'	1.96	0.65
26:14:265:A:N6	26:14:427:U:O2'	2.28	0.65
26:14:386:G:H5'	63:14:3733:HOH:O	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1204:A:O2'	26:14:1205:U:OP2	2.14	0.65
26:14:1890:A:OP2	63:14:3854:HOH:O	2.14	0.65
26:14:2267:A:OP2	63:14:3851:HOH:O	2.13	0.65
26:14:2512:C:H5"	26:14:2513:G:OP2	1.97	0.65
26:1H:732:C:H3'	63:1H:3937:HOH:O	1.96	0.65
26:1H:1535:U:O4	26:1H:1538:G:O2'	2.10	0.65
26:1H:1783:A:OP2	63:1H:3898:HOH:O	2.12	0.65
1:1G:677:U:H3	1:1G:713:G:H22	1.43	0.65
1:1G:827:U:H3	1:1G:872:A:N6	1.92	0.65
13:4A:12:ASN:O	13:4A:12:ASN:ND2	2.29	0.65
26:14:887:A:N6	26:14:889:C:O4'	2.30	0.65
26:14:1774:C:OP1	63:14:3847:HOH:O	2.13	0.65
1:13:578:C:OP1	63:13:1948:HOH:O	2.13	0.65
8:7E:121:ASP:HB2	8:7E:125:ARG:NH2	2.12	0.65
19:AI:40:ILE:HG12	19:AI:41:VAL:H	1.61	0.65
26:1H:1010:A:OP2	63:1H:3912:HOH:O	2.14	0.65
26:1H:1890:A:OP2	63:1H:3910:HOH:O	2.13	0.65
26:1H:2129:C:H1'	26:1H:2160:G:H22	1.60	0.65
26:1H:2470:G:H5'	41:88:56:ARG:NH2	2.12	0.65
29:11:70:TRP:CD1	29:11:70:TRP:C	2.74	0.65
9:82:14:VAL:HB	9:82:66:ARG:H	1.61	0.65
26:14:219:G:OP2	63:14:3844:HOH:O	2.12	0.65
26:14:833:U:O2	40:35:55:ARG:NH1	2.28	0.65
26:14:1496:A:H8	26:14:1577:C:O2'	1.78	0.65
26:14:2499:C:OP1	63:14:3855:HOH:O	2.14	0.65
1:13:627:G:H2'	1:13:628:G:H8	1.61	0.65
8:7E:85:ARG:NE	8:7E:87:SER:O	2.29	0.65
26:1H:1221:C:H2'	26:1H:1222:C:H6	1.61	0.65
26:1H:2124:G:H1	26:1H:2174:C:H42	1.43	0.65
35:61:37:VAL:HG22	35:61:38:LEU:HD12	1.77	0.65
37:48:34:ILE:HD11	37:48:38:VAL:HG13	1.78	0.65
9:82:17:VAL:HA	9:82:63:ILE:HG12	1.78	0.65
10:1A:22:LYS:HE2	10:1A:90:LEU:HD13	1.79	0.65
16:7A:22:THR:HA	16:7A:33:ILE:HD12	1.79	0.65
26:14:1129:A:N6	26:14:2491:U:OP1	2.30	0.65
26:14:2121:G:N2	28:79:166:ASP:OD2	2.29	0.65
49:C5:52:SER:N	49:C5:56:PRO:HA	2.11	0.65
1:13:486:U:H2'	1:13:487:A:C8	2.32	0.65
1:13:584:G:OP1	17:8I:91:ARG:NH2	2.29	0.65
15:6I:25:THR:HG21	15:6I:70:LEU:HB2	1.78	0.65
23:2K:62:C:H2'	23:2K:63:C:H6	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:36:G:N7	63:1H:4053:HOH:O	2.30	0.65
26:1H:71:A:H2	48:F8:31:HIS:HE2	1.44	0.65
26:1H:567:A:OP1	63:1H:3911:HOH:O	2.14	0.65
26:1H:946:G:OP2	63:1H:3917:HOH:O	2.14	0.65
26:1H:1416:G:O2'	26:1H:1417:C:O5'	2.15	0.65
29:11:260:ARG:HH22	29:11:266:SER:HB3	1.61	0.65
35:61:39:ALA:HB1	35:61:44:LEU:HD13	1.78	0.65
1:1G:1500:A:OP1	63:1G:1814:HOH:O	2.15	0.65
26:14:1754:C:OP1	44:75:96:ARG:NH1	2.30	0.65
26:14:2624:G:N7	63:14:3982:HOH:O	2.29	0.65
1:13:939:G:H2'	1:13:940:C:C6	2.32	0.65
1:13:1095:U:OP2	63:13:1939:HOH:O	2.13	0.65
24:3K:26:U:H3'	24:3K:27:A:H5"	1.79	0.65
26:1H:1525:G:H2'	26:1H:1526:G:H8	1.60	0.65
26:1H:1992:G:N7	63:1H:4046:HOH:O	2.29	0.65
4:32:150:GLU:O	4:32:152:SER:N	2.30	0.65
24:3L:8:U:N3	24:3L:14:A:N7	2.41	0.65
48:B5:51:VAL:HG13	48:B5:81:VAL:HG23	1.79	0.65
1:13:54:C:N4	1:13:353:A:OP2	2.29	0.65
1:13:1372:U:H5"	9:8E:71:SER:HB3	1.78	0.65
24:3K:37:G:H2'	24:3K:38:A:C8	2.32	0.65
26:1H:1021:A:H8	26:1H:1021:A:H3'	1.61	0.65
26:1H:1859:A:N6	26:1H:1883:G:O2'	2.30	0.65
26:1H:1932:A:H2'	26:1H:1933:G:O4'	1.97	0.65
50:H8:7:ALA:HB3	50:H8:61:LEU:HB2	1.79	0.65
1:1G:1053:G:H4'	1:1G:1054:C:O5'	1.96	0.65
1:1G:1320:C:O2	19:AA:36:ARG:NH2	2.29	0.65
23:2L:9:G:N3	23:2L:46:G:H2'	2.12	0.65
26:14:547:A:H2'	26:14:548:A:C8	2.32	0.65
26:14:2429:G:O6	40:35:61:ARG:NH2	2.30	0.65
26:14:2448:A:OP2	63:14:3716:HOH:O	2.15	0.65
27:1J:52:A:N6	43:65:33:LYS:HG3	2.12	0.65
27:1J:103:U:O2'	50:D5:72:ARG:HG2	1.97	0.65
41:45:36:ALA:HB2	41:45:103:MET:SD	2.37	0.65
44:75:55:ASN:N	44:75:59:THR:HG22	2.11	0.65
2:1E:84:GLU:HB3	2:1E:219:VAL:HG11	1.78	0.64
10:1I:56:HIS:O	10:1I:58:ASP:N	2.29	0.64
15:6I:15:PHE:CE1	15:6I:84:LYS:HD2	2.32	0.64
26:1H:1084:A:H5'	36:38:52:PHE:HB3	1.79	0.64
26:1H:1189:A:OP2	63:1H:3913:HOH:O	2.14	0.64
26:1H:1533:C:O2	26:1H:1539:G:N2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1591:G:H2'	26:1H:1592:C:H6	1.61	0.64
26:1H:2096:U:H3	26:1H:2193:G:H1	1.44	0.64
26:1H:2705:A:OP2	63:1H:3922:HOH:O	2.15	0.64
27:16:15:A:H4'	27:16:15:A:OP1	1.97	0.64
50:H8:139:VAL:HG13	50:H8:155:LEU:HD21	1.77	0.64
1:1G:222:U:H2'	1:1G:223:U:C6	2.32	0.64
1:1G:1179:A:H4'	9:82:103:THR:HA	1.78	0.64
26:14:1210:A:H5'	26:14:1212:G:C5'	2.27	0.64
28:79:181:PRO:HG2	28:79:184:LYS:HE2	1.80	0.64
43:65:3:ARG:HE	43:65:4:LEU:N	1.96	0.64
45:85:91:ASP:O	45:85:92:ARG:HG3	1.96	0.64
1:13:971:G:N2	1:13:1363:A:OP2	2.26	0.64
5:4E:41:VAL:HG13	5:4E:113:ALA:HB2	1.78	0.64
11:2I:17:GLY:O	11:2I:80:VAL:HA	1.96	0.64
22:1K:76:C:H2'	22:1K:77:A:C8	2.32	0.64
26:1H:583:G:N7	63:1H:4052:HOH:O	2.30	0.64
26:1H:945:A:N3	63:1H:4054:HOH:O	2.30	0.64
26:1H:1900:A:OP2	63:1H:3919:HOH:O	2.15	0.64
37:48:77:LEU:HD22	37:48:108:ALA:HB2	1.77	0.64
38:58:34:LEU:HD21	38:58:120:LEU:HB2	1.79	0.64
56:N8:39:MET:O	56:N8:40:LYS:HD2	1.97	0.64
26:14:323:G:HO2'	26:14:1205:U:H3	1.40	0.64
26:14:1604:C:OP1	63:14:3861:HOH:O	2.15	0.64
1:13:501:C:H2'	1:13:502:G:C8	2.33	0.64
1:13:1239:A:H62	1:13:1299:A:H62	1.44	0.64
26:1H:49:A:N7	26:1H:120:U:H5	1.96	0.64
32:41:35:GLU:OE1	32:41:36:LYS:N	2.30	0.64
1:1G:395:C:N4	63:1G:1865:HOH:O	2.30	0.64
3:22:62:ASP:O	3:22:98:ASN:ND2	2.30	0.64
4:32:20:TYR:CD1	4:32:26:CYS:HB3	2.32	0.64
26:14:2052:G:H4'	30:29:143:ASN:O	1.96	0.64
26:14:2173:A:O2'	26:14:2174:C:OP1	2.14	0.64
33:59:6:ARG:HB2	33:59:66:GLY:HA2	1.80	0.64
54:H5:4:LEU:O	54:H5:36:VAL:HA	1.97	0.64
17:8I:76:LEU:HD21	17:8I:79:SER:HB3	1.77	0.64
26:1H:1127:A:H2'	26:1H:1128:A:H5"	1.79	0.64
26:1H:1267:U:O3'	63:1H:3925:HOH:O	2.15	0.64
26:1H:1351:C:OP2	63:1H:3914:HOH:O	2.14	0.64
26:1H:1794:U:H2'	26:1H:1795:C:H6	1.62	0.64
33:51:167:GLU:N	33:51:167:GLU:OE2	2.31	0.64
40:78:47:ASP:OD2	40:78:50:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:890:G:O2'	1:1G:906:G:O6	2.13	0.64
1:1G:1041:A:OP2	63:1G:1842:HOH:O	2.14	0.64
10:1A:83:GLU:HA	10:1A:86:MET:HE2	1.78	0.64
26:14:5:A:H62	26:14:2629:A:HO2'	1.46	0.64
26:14:2128:C:H42	26:14:2160:G:H1	1.43	0.64
26:14:2250:G:C6	41:45:82:ARG:HD2	2.32	0.64
40:35:125:VAL:HG13	40:35:144:GLU:HB3	1.79	0.64
42:55:24:GLN:OE1	42:55:36:THR:HG21	1.97	0.64
46:95:53:GLU:OE1	46:95:53:GLU:N	2.22	0.64
47:A5:88:ARG:NH1	47:A5:94:ASP:OD2	2.29	0.64
1:13:67:C:H2'	1:13:68:G:C8	2.33	0.64
1:13:355:C:OP2	63:13:1949:HOH:O	2.14	0.64
7:6E:15:ASP:HB3	7:6E:20:ASP:H	1.63	0.64
26:1H:2050:C:H1'	30:21:156:MET:HE2	1.79	0.64
1:1G:272:C:H2'	1:1G:273:A:H8	1.61	0.64
1:1G:408:A:N6	63:1G:1868:HOH:O	2.30	0.64
1:1G:977:A:O2'	1:1G:981:U:N3	2.28	0.64
3:22:11:ARG:NH2	3:22:177:THR:O	2.30	0.64
26:14:120:U:OP2	63:14:3853:HOH:O	2.14	0.64
26:14:273(C):C:H42	26:14:363(C):G:H1	1.45	0.64
26:14:690:G:O2'	29:19:43:ARG:NH1	2.30	0.64
26:14:1577:C:OP2	63:14:3858:HOH:O	2.15	0.64
26:14:1599:C:H2'	26:14:1600:C:H6	1.62	0.64
26:14:2588:G:OP2	63:14:3862:HOH:O	2.15	0.64
3:2E:123:GLN:O	3:2E:128:PHE:HB2	1.97	0.64
8:7E:34:GLU:HB3	8:7E:118:VAL:HG21	1.80	0.64
26:1H:507:A:H5"	26:1H:508:G:H3'	1.80	0.64
59:Q8:33:ASN:HA	59:Q8:36:LYS:HD2	1.79	0.64
1:1G:147:G:H1	1:1G:175:C:H42	1.44	0.64
3:22:109:PRO:HB2	3:22:115:LEU:HD12	1.79	0.64
26:14:577:G:O2'	26:14:1254:A:OP1	2.13	0.64
26:14:698:C:O2'	26:14:734:A:N6	2.31	0.64
26:14:1170:G:H2'	26:14:1171:G:H5'	1.80	0.64
26:14:1678:G:N2	26:14:1989:G:H22	1.93	0.64
26:14:1794:U:H2'	26:14:1795:C:H6	1.62	0.64
26:14:2693:A:H2'	26:14:2694:G:H8	1.63	0.64
29:19:255:LYS:HZ2	29:19:255:LYS:N	1.95	0.64
45:85:110:VAL:HG12	45:85:114:LYS:HD3	1.80	0.64
1:13:1459:C:OP1	20:BI:31:SER:OG	2.16	0.64
11:2I:79:SER:OG	11:2I:106:LYS:NZ	2.28	0.64
28:71:59:ARG:HA	28:71:164:ARG:HA	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:12:THR:OG1	30:21:13:ARG:N	2.30	0.64
31:31:119:ARG:HB3	31:31:119:ARG:CZ	2.28	0.64
39:68:2:ILE:HD12	39:68:6:THR:HG21	1.80	0.64
39:68:19:ILE:HG22	39:68:43:VAL:HA	1.79	0.64
42:98:20:LEU:HD21	42:98:40:LYS:HD3	1.78	0.64
1:1G:1124:G:O2'	1:1G:1145:C:N4	2.31	0.64
2:12:16:HIS:CD2	2:12:209:ARG:HD2	2.33	0.64
28:79:14:VAL:HG22	28:79:222:VAL:HG22	1.79	0.64
32:49:125:PHE:HB3	32:49:166:ASP:HB2	1.80	0.64
23:2K:48:U:O2'	23:2K:49:C:OP2	2.14	0.64
26:1H:882:G:H1	26:1H:894:C:H42	1.44	0.64
26:1H:1022:G:OP1	38:58:69:GLN:NE2	2.31	0.64
33:51:106:THR:HG22	33:51:112:PRO:HB3	1.80	0.64
34:28:5:ILE:HG23	34:28:9:LYS:HD2	1.78	0.64
53:K8:17:SER:HB3	53:K8:67:LYS:HE3	1.80	0.64
11:2A:48:ILE:HG13	11:2A:63:LEU:HB3	1.80	0.64
26:14:270(H):C:H2'	26:14:270(I):G:C8	2.33	0.64
26:14:1170:G:O6	26:14:1178:C:N4	2.31	0.64
1:13:454:C:H3'	1:13:455:C:C5	2.32	0.64
1:13:1177:G:OP1	1:13:1177:G:H4'	1.97	0.64
2:1E:189:ASP:OD1	2:1E:189:ASP:N	2.31	0.64
9:8E:17:VAL:HG21	9:8E:80:GLY:HA3	1.78	0.64
26:1H:274:G:N2	26:1H:276:A:H61	1.96	0.64
26:1H:1138:G:H21	38:58:106:MET:HE3	1.63	0.64
26:1H:1417:C:OP2	63:1H:3923:HOH:O	2.15	0.64
26:1H:2292:C:P	43:A8:17:ARG:HH22	2.19	0.64
33:51:144:VAL:O	33:51:148:ILE:HG12	1.96	0.64
36:38:87:VAL:HG22	36:38:91:LYS:HB3	1.78	0.64
40:78:91:PHE:O	40:78:121:LYS:NZ	2.30	0.64
40:78:94:GLU:O	40:78:94:GLU:HG3	1.98	0.64
49:G8:28:LYS:NZ	49:G8:64:GLU:OE2	2.28	0.64
1:1G:407:G:OP1	4:32:115:ARG:NH2	2.31	0.64
1:1G:1095:U:OP1	1:1G:1108:G:N2	2.30	0.64
9:82:28:VAL:HG22	9:82:63:ILE:HB	1.80	0.64
24:3L:54:G:O2'	28:79:54:SER:OG	2.16	0.64
26:14:1315:C:OP2	63:14:3779:HOH:O	2.14	0.64
26:14:2749:A:N1	26:14:2750:A:N6	2.46	0.64
31:39:150:GLY:HA2	31:39:172:TRP:CD2	2.33	0.64
40:35:13:ASN:C	40:35:15:ARG:H	2.05	0.64
1:13:611:A:N6	1:13:629:G:H1	1.92	0.64
5:4E:33:VAL:HG11	5:4E:109:ILE:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:503:A:H4'	26:1H:504:U:H5"	1.80	0.64
26:1H:1520:U:H2'	26:1H:1521:G:O4'	1.98	0.64
29:11:17:THR:HG22	29:11:204:ILE:HA	1.79	0.64
50:H8:169:GLU:OE1	50:H8:170:THR:N	2.20	0.64
2:12:172:ILE:H	2:12:172:ILE:HD12	1.63	0.64
8:72:120:THR:HG23	8:72:122:ARG:H	1.63	0.64
12:3A:60:LEU:HB2	12:3A:64:TYR:HB2	1.80	0.64
26:14:1931:U:O4'	63:14:3863:HOH:O	2.15	0.64
35:69:75:LEU:HD23	35:69:76:THR:H	1.63	0.64
45:85:66:ASN:HD21	45:85:70:ARG:HE	1.46	0.64
10:1I:75:ILE:HG13	10:1I:76:ASN:N	2.13	0.63
26:1H:240:G:O6	63:1H:3887:HOH:O	2.11	0.63
26:1H:249:C:OP1	63:1H:3920:HOH:O	2.15	0.63
26:1H:1672:C:H5"	26:1H:1673:U:OP2	1.98	0.63
26:1H:2327:A:H2'	26:1H:2328:A:H8	1.63	0.63
32:41:96:ARG:H	32:41:99:MET:HE2	1.62	0.63
1:1G:699:C:H2'	1:1G:700:G:H5"	1.81	0.63
8:72:86:ILE:HG12	8:72:135:CYS:HA	1.78	0.63
26:14:26:G:OP1	47:A5:80:PRO:HB3	1.98	0.63
26:14:1163:G:H2'	26:14:1164:G:H8	1.62	0.63
1:13:505:G:N7	63:13:1994:HOH:O	2.30	0.63
8:7E:46:LYS:HE3	8:7E:62:TYR:HB3	1.79	0.63
20:BI:82:SER:O	20:BI:86:ARG:HG3	1.98	0.63
26:1H:1892:C:N4	63:1H:4073:HOH:O	2.32	0.63
33:51:94:TYR:CE2	33:51:160:LYS:HB2	2.33	0.63
40:78:79:ARG:HB2	40:78:110:TYR:CD1	2.34	0.63
5:42:57:LYS:HE3	5:42:61:TYR:OH	1.99	0.63
15:6A:39:LEU:HD12	15:6A:56:LEU:HD13	1.78	0.63
26:14:1771:C:O2'	26:14:1786:A:H8	1.82	0.63
26:14:2431:U:OP1	63:14:3859:HOH:O	2.15	0.63
46:95:98:GLU:OE2	46:95:100:ARG:HG2	1.99	0.63
52:F5:80:LEU:HA	52:F5:82:LEU:HD12	1.81	0.63
4:3E:7:PRO:HB2	4:3E:10:ARG:HD2	1.81	0.63
20:BI:73:HIS:HB3	20:BI:74:LYS:HD2	1.81	0.63
26:1H:2233:U:H2'	26:1H:2234:G:C8	2.33	0.63
35:61:83:ALA:HB2	35:61:144:VAL:HG23	1.79	0.63
39:68:120:GLU:OE1	44:B8:67:SER:OG	2.16	0.63
2:12:48:MET:HA	2:12:51:LEU:HB2	1.80	0.63
2:12:163:PHE:CD1	2:12:185:ILE:HG13	2.33	0.63
4:32:150:GLU:HG2	4:32:151:LYS:HB2	1.80	0.63
26:14:797:C:OP2	31:39:62:ARG:HG3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2210:G:H3'	26:14:2211:G:C5	2.34	0.63
31:39:3:GLU:OE1	31:39:3:GLU:N	2.31	0.63
1:13:1133:G:H2'	1:13:1134:G:C8	2.34	0.63
1:13:1226:C:H4'	19:AI:80:TYR:OH	1.98	0.63
26:1H:598:G:H5'	40:78:11:GLY:HA3	1.79	0.63
26:1H:1077:A:H3'	26:1H:1078:U:H5"	1.80	0.63
26:1H:2210:G:H3'	26:1H:2211:G:C5	2.33	0.63
27:16:42:C:H4'	32:41:67:LYS:HE3	1.81	0.63
28:71:33:ALA:HB1	28:71:39:GLU:HB3	1.80	0.63
40:78:60:MET:HA	59:Q8:13:ARG:NH1	2.12	0.63
57:O8:22:ALA:HB2	57:O8:42:TRP:HZ2	1.62	0.63
1:1G:1014:A:H2'	1:1G:1015:A:C8	2.33	0.63
1:1G:1255:G:P	10:1A:45:ARG:HH22	2.21	0.63
11:2A:22:HIS:HB3	11:2A:29:ILE:HG12	1.80	0.63
23:2L:41:C:H2'	23:2L:42:C:H6	1.64	0.63
26:14:330:A:H2	26:14:1210:A:HO2'	1.44	0.63
26:14:832:G:H5'	40:35:45:LEU:HD12	1.80	0.63
26:14:2801:A:H2'	26:14:2802:G:H4'	1.81	0.63
38:15:38:HIS:CE1	38:15:39:ARG:HG3	2.33	0.63
40:35:3:LEU:HA	40:35:6:LEU:HD23	1.80	0.63
44:75:6:LEU:HD12	44:75:9:LEU:HD13	1.81	0.63
49:C5:97:ARG:HG3	49:C5:106:LEU:HD12	1.81	0.63
59:M5:51:ALA:HB1	59:M5:53:PRO:HD2	1.78	0.63
2:1E:212:GLN:NE2	2:1E:233:SER:O	2.31	0.63
10:1I:46:ARG:HG3	10:1I:64:GLU:HB3	1.78	0.63
26:1H:205:G:O5'	63:1H:3930:HOH:O	2.16	0.63
26:1H:707:G:O6	63:1H:3885:HOH:O	2.11	0.63
26:1H:1593:G:H2'	26:1H:1594:G:H8	1.64	0.63
32:41:97:ASP:O	32:41:101:ILE:HG23	1.99	0.63
40:78:15:ARG:HH12	40:78:17:LYS:HD2	1.64	0.63
13:4A:16:ASP:OD1	13:4A:16:ASP:N	2.30	0.63
26:14:1786:A:OP1	63:14:3860:HOH:O	2.15	0.63
63:14:3805:HOH:O	31:39:55:GLY:HA2	1.97	0.63
29:19:32:SER:HA	29:19:35:LYS:HE2	1.79	0.63
41:45:134:ARG:N	41:45:135:ASP:OD1	2.30	0.63
44:75:26:ASP:O	44:75:49:VAL:HG22	1.98	0.63
48:B5:27:THR:HG23	48:B5:80:ILE:HB	1.80	0.63
1:13:895:G:N7	63:13:1991:HOH:O	2.30	0.63
4:3E:88:VAL:HB	4:3E:91:SER:HB3	1.81	0.63
5:4E:126:ARG:HG3	5:4E:126:ARG:HH11	1.64	0.63
8:7E:82:HIS:NE2	8:7E:136:GLU:OE2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AI:41:VAL:HG11	19:AI:45:VAL:HG13	1.80	0.63
26:1H:928:G:N7	63:1H:4051:HOH:O	2.30	0.63
33:51:155:SER:HA	33:51:156:ALA:HB3	1.81	0.63
1:1G:584:G:O6	63:1G:1840:HOH:O	2.13	0.63
8:72:116:LYS:HD2	8:72:129:VAL:HG11	1.80	0.63
16:7A:34:GLU:OE1	16:7A:55:ARG:NH1	2.31	0.63
26:14:863:A:H2'	26:14:864:G:C8	2.34	0.63
29:19:69:ARG:HD3	29:19:105:ILE:HD11	1.79	0.63
1:13:575:G:O6	63:13:1944:HOH:O	2.12	0.63
26:1H:943:U:OP2	40:78:36:LYS:NZ	2.19	0.63
26:1H:1332:G:H5'	26:1H:1332:G:C8	2.34	0.63
26:1H:1864:U:H2'	26:1H:1869:G:H5"	1.81	0.63
26:1H:2154:G:H2'	26:1H:2155:G:C8	2.34	0.63
26:1H:2452:C:OP1	63:1H:3929:HOH:O	2.16	0.63
31:31:28:ILE:HD13	31:31:116:ASP:HB2	1.80	0.63
31:31:178:PRO:HB3	31:31:198:ALA:HB1	1.79	0.63
44:B8:105:LEU:HB3	44:B8:110:ILE:HG22	1.81	0.63
51:I8:37:LEU:HD21	51:I8:61:ALA:H	1.63	0.63
1:1G:1300:G:O2'	1:1G:1301:U:O5'	2.15	0.63
26:14:990:A:H5'	26:14:990:A:H8	1.63	0.63
26:14:2352:A:C2	51:E5:33:ALA:HB1	2.34	0.63
31:39:149:ASP:N	31:39:149:ASP:OD1	2.29	0.63
1:13:677:U:H3	1:13:713:G:H22	1.46	0.63
1:13:1149:C:H2'	1:13:1150:U:C6	2.34	0.63
2:1E:27:LYS:HB2	2:1E:194:PRO:HD2	1.79	0.63
6:5E:70:ASP:OD1	6:5E:70:ASP:N	2.22	0.63
10:1I:50:ILE:HA	10:1I:60:ARG:HG2	1.79	0.63
26:1H:1287:A:C8	42:98:107:ASP:HB2	2.34	0.63
26:1H:2150:U:H2'	26:1H:2151:G:C8	2.33	0.63
40:78:89:ALA:HA	40:78:121:LYS:HD3	1.79	0.63
41:88:54:MET:O	41:88:57:HIS:N	2.31	0.63
50:H8:108:PRO:HB2	50:H8:112:ARG:HG3	1.80	0.63
1:1G:539:A:H2'	1:1G:540:G:H8	1.63	0.63
2:12:33:TYR:HB2	2:12:43:ASP:HA	1.80	0.63
10:1A:32:ALA:HA	10:1A:75:ILE:HD11	1.80	0.63
11:2A:81:ASP:N	11:2A:81:ASP:OD1	2.30	0.63
24:3L:37:G:H21	25:4L:14:A:H62	1.47	0.63
31:39:78:ILE:HA	31:39:83:PHE:CD2	2.34	0.63
50:D5:76:LEU:H	50:D5:76:LEU:HD23	1.62	0.63
6:5E:97:PHE:O	18:9I:31:LEU:HD23	1.99	0.63
8:7E:104:ARG:HG3	8:7E:138:TRP:CG	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2751:G:C4	33:51:3:ARG:HB3	2.33	0.63
1:1G:1142:G:H3'	1:1G:1143:G:H8	1.62	0.63
26:14:2125:G:N2	26:14:2172:U:OP1	2.32	0.63
26:14:2674:G:H4'	39:25:30:ALA:HB2	1.81	0.63
30:29:37:ARG:HD2	30:29:44:TYR:OH	1.99	0.63
33:59:88:LEU:H	33:59:88:LEU:CD1	2.12	0.63
1:13:1249:C:O2'	9:8E:73:GLN:OE1	2.15	0.62
26:1H:1657:C:H2'	26:1H:1658:C:C6	2.35	0.62
26:1H:2593:U:H2'	26:1H:2594:C:H6	1.64	0.62
29:11:31:LYS:HG3	29:11:33:LEU:HD21	1.81	0.62
1:1G:402:G:O6	63:1G:1835:HOH:O	2.11	0.62
1:1G:1142:G:H3'	1:1G:1143:G:C8	2.34	0.62
1:1G:1171:G:H2'	1:1G:1172:C:C6	2.34	0.62
26:14:259:G:O2'	26:14:621:A:O2'	2.16	0.62
26:14:1047:G:H2'	26:14:1110:G:H1	1.64	0.62
28:79:212:VAL:HG21	28:79:226:PRO:HD3	1.80	0.62
42:55:51:LEU:HD22	42:55:66:VAL:HG22	1.81	0.62
1:13:4:U:C4	8:7E:102:ARG:HD2	2.34	0.62
1:13:1014:A:H4'	19:AI:14:HIS:CE1	2.33	0.62
8:7E:23:SER:HA	8:7E:61:VAL:O	1.99	0.62
26:1H:50:U:H3'	26:1H:51:G:H5'	1.79	0.62
26:1H:2105:C:H2'	26:1H:2106:G:C8	2.33	0.62
36:38:4:LYS:NZ	36:38:7:VAL:HG12	2.13	0.62
50:H8:11:GLU:O	50:H8:36:LYS:NZ	2.23	0.62
50:H8:76:LEU:HD23	50:H8:76:LEU:H	1.64	0.62
1:1G:1248:A:N3	9:82:70:LYS:NZ	2.36	0.62
26:14:1019:U:OP1	26:14:1035:U:O2'	2.10	0.62
27:1J:46:A:H2'	27:1J:47:C:C6	2.34	0.62
32:49:97:ASP:HA	32:49:100:TRP:HB2	1.80	0.62
2:1E:187:LEU:HA	2:1E:201:ILE:O	2.00	0.62
12:3I:58:VAL:O	12:3I:65:GLU:HA	2.00	0.62
26:1H:989:G:N7	54:L8:13:ILE:HD11	2.14	0.62
26:1H:1525:G:H2'	26:1H:1526:G:C8	2.33	0.62
26:1H:1794:U:H2'	26:1H:1795:C:C6	2.33	0.62
1:1G:1028:C:N4	1:1G:1034:G:H21	1.97	0.62
10:1A:99:LYS:CD	10:1A:100:THR:H	2.12	0.62
13:4A:37:THR:HG22	13:4A:55:ARG:HE	1.63	0.62
26:14:674:G:O2'	31:39:74:ARG:HG3	1.98	0.62
26:14:2645:G:H3'	26:14:2646:C:H5'	1.79	0.62
1:13:926:G:N2	25:4K:15:A:OP2	2.33	0.62
26:1H:668:G:O2'	26:1H:669:G:OP1	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:975:G:H1'	26:1H:990:A:C2	2.34	0.62
29:11:27:THR:O	29:11:27:THR:OG1	2.14	0.62
37:48:14:ALA:HB2	37:48:50:ASP:HB2	1.80	0.62
48:F8:36:LYS:HG2	48:F8:54:VAL:HB	1.80	0.62
12:3A:41:ARG:HB3	12:3A:41:ARG:HH11	1.64	0.62
26:14:1292:U:H2'	26:14:1293:C:C6	2.34	0.62
26:14:2674:G:H5'	39:25:26:LYS:HD2	1.81	0.62
38:15:13:TRP:O	38:15:135:PRO:HD2	1.99	0.62
39:25:14:THR:HG21	39:25:86:ILE:HG13	1.81	0.62
48:B5:36:LYS:HG2	48:B5:54:VAL:HB	1.81	0.62
50:D5:144:LEU:O	50:D5:174:VAL:HG21	1.98	0.62
56:J5:16:ARG:NH1	56:J5:17:ASP:OD1	2.30	0.62
11:2I:97:ALA:O	11:2I:101:SER:OG	2.18	0.62
26:1H:860:U:C5	26:1H:917:A:H2	2.16	0.62
1:1G:236:G:O2'	17:8A:4:LYS:NZ	2.32	0.62
3:22:121:ALA:HB2	3:22:198:VAL:HG21	1.81	0.62
26:14:273(F):C:H3'	26:14:274:G:H5"	1.80	0.62
26:14:2356:C:OP1	51:E5:24:LYS:NZ	2.30	0.62
28:79:214:VAL:HB	28:79:224:ILE:HG21	1.80	0.62
30:29:170:LEU:HD12	30:29:184:VAL:HB	1.82	0.62
42:55:29:LEU:HB3	42:55:75:LEU:HD21	1.81	0.62
1:13:600:C:H4'	8:7E:128:GLY:O	2.00	0.62
26:1H:32:C:O2'	26:1H:33:U:H5'	1.99	0.62
26:1H:722:A:H2'	26:1H:723:G:C8	2.35	0.62
26:1H:1047:G:H2'	26:1H:1110:G:N1	2.14	0.62
26:1H:1633:G:OP2	63:1H:3921:HOH:O	2.15	0.62
26:1H:2133:G:H2'	26:1H:2157:G:H22	1.65	0.62
26:1H:2584:U:H2'	26:1H:2585:U:H2'	1.82	0.62
63:1H:4728:HOH:O	29:11:232:PRO:HA	1.99	0.62
33:51:137:ASP:OD1	33:51:139:GLN:N	2.31	0.62
47:E8:9:TYR:H	47:E8:102:HIS:CD2	2.17	0.62
53:K8:48:HIS:H	53:K8:50:ILE:HD11	1.63	0.62
1:1G:1192:C:OP2	3:22:4:LYS:NZ	2.30	0.62
26:14:617:G:OP1	31:39:40:GLN:NE2	2.33	0.62
40:35:79:ARG:O	40:35:110:TYR:HB3	1.99	0.62
1:13:604:G:H2'	1:13:605:U:O4'	1.99	0.62
13:4I:3:ARG:HD3	13:4I:7:VAL:HG13	1.82	0.62
16:7I:13:HIS:C	16:7I:15:PRO:HD3	2.24	0.62
30:21:51:PHE:CE2	30:21:52:LEU:HD22	2.34	0.62
30:21:57:LYS:HA	30:21:59:VAL:HG12	1.82	0.62
35:61:78:THR:HG22	35:61:141:LYS:HE2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:973:G:H1'	10:1A:55:LYS:HG2	1.79	0.62
4:32:112:VAL:HG12	4:32:116:GLN:OE1	1.99	0.62
20:BA:72:LEU:HD23	20:BA:77:ALA:HA	1.81	0.62
21:1B:8:THR:HG23	21:1B:11:GLY:H	1.65	0.62
27:1J:28:C:H2'	27:1J:29:A:C8	2.35	0.62
27:1J:70:C:H2'	27:1J:71:C:H6	1.64	0.62
43:65:54:LEU:C	43:65:56:LEU:H	2.07	0.62
52:F5:91:LYS:HG3	52:F5:92:LYS:H	1.65	0.62
26:1H:654(O):G:N7	26:1H:654(P):G:N2	2.47	0.62
26:1H:1178:C:H4'	26:1H:1179:C:OP1	2.00	0.62
44:B8:26:ASP:O	44:B8:49:VAL:HG12	2.00	0.62
1:1G:1298:C:H4'	1:1G:1299:A:C4	2.34	0.62
2:12:158:LEU:H	2:12:158:LEU:HD12	1.64	0.62
3:22:73:PRO:HA	3:22:76:VAL:HG13	1.82	0.62
9:82:21:PRO:HA	9:82:59:PHE:HA	1.81	0.62
10:1A:63:PHE:HA	14:5A:59:ALA:H	1.65	0.62
12:3A:60:LEU:HB2	12:3A:64:TYR:CB	2.30	0.62
26:14:598:G:H1'	40:35:12:ALA:HB2	1.81	0.62
26:14:918:A:O2'	27:1J:96:G:N2	2.32	0.62
26:14:1945:G:H2'	26:14:1946:U:H6	1.64	0.62
33:59:67:LEU:HG	33:59:71:LEU:HD13	1.81	0.62
45:85:112:ARG:NH1	46:95:45:THR:HG23	2.14	0.62
1:13:652:U:O2'	1:13:653:A:O5'	2.18	0.62
1:13:1327:C:OP2	21:1F:12:LYS:NZ	2.32	0.62
2:1E:179:LYS:HA	8:7E:72:PRO:HD3	1.82	0.62
15:6I:78:TYR:CZ	15:6I:82:ILE:HD11	2.35	0.62
26:1H:2275:C:H5'	26:1H:2275:C:H6	1.65	0.62
32:41:131:TYR:O	32:41:159:VAL:HG22	1.99	0.62
1:1G:620:C:H2'	1:1G:621:A:O4'	1.98	0.62
13:4A:81:LEU:HG	13:4A:86:CYS:SG	2.39	0.62
26:14:389:G:N2	40:35:71:VAL:HG12	2.15	0.62
33:59:94:TYR:CE2	33:59:160:LYS:HB3	2.34	0.62
1:13:590:C:H42	1:13:649:G:H1	1.47	0.62
1:13:963:G:H1	1:13:972:C:N4	1.94	0.62
1:13:1369:C:H2'	1:13:1370:G:C8	2.35	0.62
5:4E:12:LEU:HB3	5:4E:31:LEU:HB2	1.82	0.62
22:1K:72:G:O2'	22:1K:73:C:OP2	2.12	0.62
24:3K:51:G:H2'	24:3K:52:A:H8	1.64	0.62
24:3K:67:C:H2'	24:3K:68:G:C8	2.33	0.62
26:1H:446:G:OP2	63:1H:3928:HOH:O	2.16	0.62
26:1H:637:A:H2'	40:78:117:GLU:OE1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1386:C:H2'	26:1H:1387:C:H6	1.65	0.62
26:1H:1429:G:H2'	26:1H:1430:C:C6	2.34	0.62
35:61:88:ILE:O	35:61:121:LYS:NZ	2.29	0.62
36:38:25:PHE:O	36:38:112:LEU:HA	1.99	0.62
37:48:112:MET:HE1	37:48:123:ALA:HB3	1.80	0.62
50:H8:54:HIS:HB3	50:H8:101:PRO:HD3	1.81	0.62
22:1L:24:A:H2'	22:1L:25:G:H8	1.64	0.62
26:14:363(F):A:OP2	26:14:363(F):A:H8	1.82	0.62
26:14:2880:C:H1'	42:55:92:GLY:HA3	1.81	0.62
27:1J:83:G:H4'	54:H5:52:HIS:CG	2.35	0.62
43:65:49:VAL:HG12	43:65:73:LEU:HD23	1.82	0.62
44:75:45:PHE:CE2	44:75:74:ARG:HG3	2.35	0.62
1:13:1366:C:HO2'	10:1I:60:ARG:HH12	1.44	0.61
1:13:1370:G:O6	63:13:1947:HOH:O	2.13	0.61
26:1H:2305:A:O2'	32:41:136:ARG:NH1	2.33	0.61
29:11:68:LYS:HB3	29:11:70:TRP:CZ3	2.35	0.61
57:O8:41:PRO:HD2	57:O8:46:HIS:N	2.15	0.61
1:1G:979:C:H3'	1:1G:980:C:H5"	1.81	0.61
1:1G:1321:C:N4	1:1G:1322:C:H41	1.97	0.61
10:1A:40:LEU:HG	10:1A:41:PRO:HD2	1.82	0.61
19:AA:40:ILE:HG22	19:AA:67:VAL:HG13	1.82	0.61
26:14:198:C:H5'	26:14:2244:U:OP1	2.00	0.61
26:14:1070:A:H5'	26:14:1071:G:H5"	1.80	0.61
26:14:1486:A:H2'	26:14:1487:G:C8	2.35	0.61
28:79:22:ILE:HD11	28:79:193:ILE:HD13	1.82	0.61
32:49:47:LYS:HD2	32:49:81:LYS:HB2	1.81	0.61
39:25:73:ASP:OD2	44:75:32:TYR:OH	2.15	0.61
1:13:1432:G:O6	63:13:1950:HOH:O	2.15	0.61
9:8E:78:LYS:HE3	9:8E:101:PHE:CE1	2.34	0.61
16:7I:4:ILE:HB	16:7I:66:PRO:HB3	1.82	0.61
17:8I:67:LYS:HA	17:8I:70:ARG:NH1	2.15	0.61
36:38:73:GLY:HA3	36:38:112:LEU:HD21	1.81	0.61
40:78:75:ILE:HD12	40:78:75:ILE:H	1.64	0.61
43:A8:85:VAL:HG23	43:A8:112:PHE:HZ	1.65	0.61
52:J8:50:ARG:HG3	52:J8:59:THR:HG23	1.81	0.61
1:1G:1028:C:N4	1:1G:1033:G:H1	1.98	0.61
2:12:9:GLU:HB2	2:12:217:ARG:NH2	2.15	0.61
6:52:15:ASP:OD1	6:52:17:SER:N	2.32	0.61
26:14:54:G:O6	63:14:3856:HOH:O	2.15	0.61
26:14:2839:G:H5'	42:55:46:GLY:HA2	1.83	0.61
33:59:117:PRO:HB3	33:59:123:PHE:CE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:15:20:GLY:O	38:15:61:ARG:HG3	2.00	0.61
44:75:125:ARG:HB2	44:75:129:ARG:HH21	1.65	0.61
26:1H:389:G:H1	40:78:71:VAL:H	1.48	0.61
40:78:50:ARG:HD3	59:Q8:7:HIS:NE2	2.14	0.61
1:1G:1084:G:H5'	1:1G:1102:A:OP2	2.00	0.61
22:1L:15:G:H22	22:1L:22:A:H1'	1.64	0.61
24:3L:4:U:H3	24:3L:70:A:H61	1.48	0.61
26:14:993:G:OP1	45:85:50:ARG:NH2	2.33	0.61
26:14:2801:A:H2'	26:14:2802:G:C4'	2.30	0.61
4:3E:55:ALA:O	4:3E:59:ARG:HG2	2.00	0.61
26:1H:2749:A:OP1	33:51:4:ILE:HG13	2.00	0.61
27:16:90:C:OP2	41:88:16:ARG:NH2	2.33	0.61
31:31:101:LEU:HD23	31:31:102:PRO:CD	2.29	0.61
51:I8:9:SER:O	51:I8:10:THR:HG22	1.99	0.61
54:L8:35:ARG:HB3	54:L8:37:LEU:HD21	1.81	0.61
55:M8:23:GLU:CD	55:M8:24:THR:H	2.08	0.61
1:1G:114:U:H2'	1:1G:115:G:C8	2.35	0.61
1:1G:1157:A:H61	1:1G:1177:G:H1	1.48	0.61
30:29:7:VAL:HG12	30:29:8:LYS:H	1.65	0.61
30:29:101:ARG:CZ	30:29:171:GLU:HB2	2.30	0.61
35:69:76:THR:HG23	35:69:140:LEU:HD13	1.81	0.61
50:D5:60:GLU:HA	50:D5:66:SER:HA	1.82	0.61
1:13:1306:A:H61	1:13:1331:G:H1'	1.63	0.61
19:AI:30:LEU:HD23	19:AI:30:LEU:H	1.65	0.61
26:1H:458:G:O2'	26:1H:469:G:O6	2.16	0.61
26:1H:1021:A:H3'	26:1H:1021:A:C8	2.35	0.61
27:16:90:C:P	41:88:16:ARG:HH21	2.23	0.61
46:D8:35:LEU:HB2	46:D8:57:VAL:HG12	1.83	0.61
51:I8:11:ARG:NH1	51:I8:11:ARG:HB2	2.15	0.61
1:1G:377:G:H1	1:1G:386:C:H42	1.45	0.61
1:1G:501:C:H2'	1:1G:502:G:H8	1.65	0.61
7:62:73:MET:HA	7:62:91:VAL:HG23	1.83	0.61
9:82:112:LYS:HA	9:82:119:ALA:CB	2.30	0.61
26:14:34:C:HO2'	26:14:35:G:H8	1.48	0.61
26:14:1582:C:HO2'	26:14:1586:A:H8	1.47	0.61
1:13:157:G:H1	1:13:164:U:H3	1.48	0.61
1:13:1280:A:H3'	1:13:1281:U:H5'	1.83	0.61
17:8I:100:LYS:HB3	17:8I:101:ARG:HE	1.66	0.61
26:1H:1022:G:H22	26:1H:1142(A):A:H2	1.45	0.61
26:1H:2419:U:H4'	57:O8:23:THR:HG21	1.82	0.61
44:B8:50:ILE:HD11	44:B8:102:ILE:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1154:G:H2'	1:1G:1155:G:C8	2.34	0.61
1:1G:1238:A:N7	1:1G:1303:C:H1'	2.15	0.61
6:52:83:ASP:OD1	6:52:83:ASP:N	2.34	0.61
26:14:259:G:H21	26:14:621:A:H8	1.46	0.61
26:14:2032:G:H21	30:29:146:THR:HG23	1.66	0.61
35:69:63:ALA:HA	35:69:66:GLU:HG2	1.83	0.61
5:4E:110:LEU:HD13	5:4E:118:ILE:HD13	1.83	0.61
26:1H:993:G:OP1	45:C8:50:ARG:NH2	2.34	0.61
26:1H:2702:U:H6	26:1H:2702:U:H5"	1.65	0.61
46:D8:15:GLU:HG3	46:D8:16:PRO:HD2	1.81	0.61
1:1G:742:G:OP2	15:6A:35:ARG:NH2	2.34	0.61
2:12:22:LYS:HE3	2:12:24:TRP:HE1	1.66	0.61
3:22:91:LEU:HD22	3:22:99:VAL:HG12	1.81	0.61
24:3L:34:U:O2'	24:3L:35:A:H3'	2.01	0.61
26:14:2794:C:N4	26:14:2804:C:H1'	2.16	0.61
31:39:3:GLU:O	31:39:19:GLU:HB3	2.00	0.61
33:59:33:LEU:HD13	33:59:75:ALA:HA	1.82	0.61
48:B5:36:LYS:HG3	48:B5:56:THR:HG23	1.82	0.61
1:13:1178:G:N2	1:13:1181:G:H8	1.99	0.61
2:1E:69:LEU:HD21	2:1E:155:LEU:HD22	1.82	0.61
7:6E:89:MET:HE3	7:6E:155:ARG:HD3	1.82	0.61
26:1H:442:G:H4'	31:31:46:ARG:HG3	1.83	0.61
26:1H:2157:G:HO2'	26:1H:2158:A:P	2.23	0.61
26:1H:2309:A:H2'	26:1H:2310:A:O4'	2.01	0.61
26:1H:2795:G:H3'	26:1H:2797:U:C5'	2.30	0.61
37:48:101:TRP:H	37:48:101:TRP:HD1	1.48	0.61
9:82:4:TYR:O	9:82:18:PHE:HA	2.01	0.61
26:14:651:G:H5'	59:M5:18:ALA:HB3	1.82	0.61
31:39:170:LEU:HD22	31:39:172:TRP:HE1	1.65	0.61
44:75:6:LEU:HA	44:75:9:LEU:HD12	1.82	0.61
1:13:343:U:C2	1:13:345:C:H1'	2.36	0.61
1:13:347:G:H5"	63:13:2293:HOH:O	2.01	0.61
1:13:1348:U:N3	1:13:1374:A:H2	1.98	0.61
9:8E:17:VAL:HA	9:8E:63:ILE:HG12	1.82	0.61
26:1H:625:G:O6	40:78:107:LYS:NZ	2.33	0.61
26:1H:1174:A:H1'	26:1H:1178:C:H41	1.65	0.61
26:1H:2151:G:H2'	26:1H:2152:G:C8	2.36	0.61
26:1H:2709:G:O2'	63:1H:3932:HOH:O	2.16	0.61
40:78:65:ARG:HB3	63:78:303:HOH:O	2.00	0.61
43:A8:78:LEU:HD12	43:A8:108:GLY:HA2	1.83	0.61
7:62:71:PRO:HD3	7:62:103:TRP:CZ3	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2528:U:O2'	26:14:2530:A:OP1	2.11	0.61
26:14:2762:G:H5'	26:14:2763:G:OP2	2.01	0.61
29:19:17:THR:O	29:19:211:ARG:NH2	2.33	0.61
29:19:242:ARG:O	63:19:301:HOH:O	2.16	0.61
31:39:63:LYS:CE	31:39:67:GLN:HB3	2.30	0.61
35:69:79:ILE:HG22	35:69:81:VAL:HG23	1.83	0.61
47:A5:72:LYS:HB3	47:A5:106:ILE:HG13	1.83	0.61
1:13:145:G:H1	1:13:177:C:N4	1.96	0.61
1:13:553:A:H5"	12:3I:24:VAL:HG21	1.81	0.61
1:13:1504:G:OP1	1:13:1507:A:H4'	2.01	0.61
2:1E:93:VAL:HG21	2:1E:97:TRP:HD1	1.64	0.61
17:8I:45:HIS:HB2	17:8I:65:ILE:HD13	1.82	0.61
26:1H:1351:C:H3'	63:1H:4004:HOH:O	2.00	0.61
27:16:44:G:H1'	27:16:47:C:N4	2.16	0.61
10:1A:28:ARG:NH2	10:1A:34:VAL:HB	2.16	0.61
26:14:2392:A:H2	26:14:2424:C:H42	1.49	0.61
26:14:2537:U:H2'	26:14:2538:C:C6	2.36	0.61
43:65:3:ARG:NH2	43:65:4:LEU:HB2	2.16	0.61
43:65:16:ASN:HD22	43:65:17:ARG:H	1.49	0.61
1:13:683:G:N7	63:13:1992:HOH:O	2.30	0.60
1:13:984:C:H42	1:13:1221:G:H1	1.49	0.60
1:13:1062:U:H2'	1:13:1063:C:C6	2.36	0.60
1:13:1359:C:OP1	14:5I:22:THR:OG1	2.18	0.60
26:1H:389:G:H1	40:78:71:VAL:HG12	1.65	0.60
26:1H:2061:G:OP2	26:1H:2502:G:H5'	2.01	0.60
26:1H:2156:G:H2'	26:1H:2157:G:N2	2.16	0.60
26:1H:2404:C:O3'	40:78:77:ARG:NH2	2.34	0.60
26:1H:2470:G:H5'	41:88:56:ARG:HH22	1.65	0.60
26:1H:2818:G:OP2	42:98:42:LYS:NZ	2.33	0.60
32:41:131:TYR:HE2	32:41:133:LEU:HD23	1.65	0.60
41:88:14:ARG:HG2	41:88:41:TRP:HH2	1.65	0.60
44:B8:60:THR:HG22	44:B8:77:PRO:HA	1.82	0.60
10:1A:44:VAL:HG22	10:1A:66:ARG:HG2	1.82	0.60
20:BA:25:ARG:O	20:BA:29:LYS:HG2	2.01	0.60
26:14:443:A:H5"	26:14:444:C:OP1	2.01	0.60
26:14:1226:G:OP1	46:95:69:LYS:NZ	2.30	0.60
26:14:2068:U:H3	26:14:2430:A:H2	1.43	0.60
27:1J:42:C:O2'	32:49:67:LYS:O	2.12	0.60
39:25:78:ARG:HH21	44:75:103:ARG:HH21	1.48	0.60
1:13:642:A:N3	8:7E:113:SER:OG	2.32	0.60
1:13:1346:A:H5"	9:8E:120:ARG:NH1	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8I:100:LYS:HB3	17:8I:101:ARG:HH11	1.65	0.60
31:31:28:ILE:HD11	31:31:119:ARG:HH21	1.66	0.60
1:1G:1129:C:H1'	1:1G:1132:C:H41	1.65	0.60
3:22:44:GLU:HG3	3:22:52:LEU:HD21	1.83	0.60
26:14:6:A:H2'	26:14:6:A:N3	2.15	0.60
26:14:90:U:H1'	26:14:91:A:N7	2.16	0.60
26:14:2441:C:O2	63:14:3852:HOH:O	2.14	0.60
26:14:2708:G:H5'	42:55:68:ARG:HG2	1.83	0.60
31:39:11:VAL:HG23	31:39:12:LEU:H	1.66	0.60
1:13:170:U:H2'	1:13:171:A:H8	1.65	0.60
2:1E:223:ILE:O	2:1E:227:GLY:N	2.30	0.60
13:4I:11:ARG:O	13:4I:13:LYS:N	2.34	0.60
26:1H:675:A:OP1	31:31:63:LYS:HE2	2.01	0.60
26:1H:1871:A:H2'	26:1H:1872:A:C8	2.36	0.60
26:1H:2175:C:O2'	28:71:219:GLY:O	2.16	0.60
43:A8:87:PHE:CE2	43:A8:102:ALA:HB2	2.37	0.60
1:1G:1325:C:P	21:1B:15:ARG:HH21	2.25	0.60
20:BA:26:ASN:OD1	20:BA:71:THR:OG1	2.15	0.60
24:3L:1:G:O2'	24:3L:2:C:O5'	2.18	0.60
26:14:1593:G:H2'	26:14:1594:G:C8	2.36	0.60
30:29:13:ARG:NH2	44:75:77:PRO:HB3	2.16	0.60
52:F5:23:LYS:HB3	52:F5:29:GLY:CA	2.27	0.60
1:13:107:G:O6	20:BI:15:ARG:HG3	2.01	0.60
2:1E:47:THR:O	2:1E:51:LEU:N	2.32	0.60
2:1E:53:ARG:NH2	2:1E:198:ASP:O	2.34	0.60
7:6E:89:MET:HE3	7:6E:155:ARG:HH21	1.65	0.60
23:2K:54:G:H2'	23:2K:55:5MU:C6	2.37	0.60
26:1H:888:C:H5"	26:1H:889:C:C5	2.37	0.60
26:1H:890:A:H3'	26:1H:892:G:H8	1.65	0.60
26:1H:2518:A:H5'	26:1H:2518:A:C8	2.35	0.60
50:H8:45:ASP:OD2	50:H8:49:ARG:NH1	2.34	0.60
57:O8:13:CYS:O	57:O8:21:TYR:HA	2.01	0.60
1:1G:1322:C:O2'	1:1G:1323:G:H5'	2.01	0.60
26:14:2080:G:H5'	52:F5:35:THR:O	2.02	0.60
27:1J:80:U:H2'	27:1J:81:G:N2	2.16	0.60
49:C5:42:VAL:HG13	49:C5:65:ALA:HB3	1.83	0.60
50:D5:75:ASN:O	50:D5:84:GLU:HG2	2.01	0.60
1:13:474:G:H5'	16:7I:81:ARG:HE	1.66	0.60
2:1E:168:THR:HA	2:1E:171:ALA:HB2	1.82	0.60
26:1H:880:G:H1	26:1H:897:C:N4	1.99	0.60
26:1H:1061:U:O3'	26:1H:1070:A:H4'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1671:U:OP2	63:1H:3927:HOH:O	2.15	0.60
30:21:82:ARG:HG3	30:21:83:ASP:H	1.66	0.60
1:1G:751:U:H4'	15:6A:24:SER:HA	1.84	0.60
1:1G:1003:G:N1	1:1G:1036:G:O6	2.34	0.60
26:14:589:C:H2'	26:14:590:A:C8	2.36	0.60
26:14:2791:C:H2'	26:14:2792:G:H8	1.67	0.60
33:59:118:PRO:HG2	33:59:121:ILE:HG13	1.82	0.60
51:E5:68:GLU:HG3	51:E5:82:ARG:HG2	1.83	0.60
52:F5:86:SER:N	52:F5:87:PRO:HD2	2.15	0.60
1:13:1310:G:H1	1:13:1327:C:H42	1.49	0.60
26:1H:1188:U:H4'	46:D8:79:VAL:HG22	1.82	0.60
26:1H:1352:U:OP2	63:1H:3935:HOH:O	2.16	0.60
26:1H:1376:C:OP2	63:1H:3931:HOH:O	2.16	0.60
36:38:24:PHE:O	36:38:26:LEU:HG	2.02	0.60
48:F8:12:VAL:HG13	48:F8:27:THR:O	2.02	0.60
2:12:21:ARG:O	2:12:23:ARG:N	2.34	0.60
23:2L:54:G:H2'	23:2L:55:5MU:H6	1.67	0.60
26:14:847:U:OP2	63:14:3867:HOH:O	2.17	0.60
27:1J:46:A:H2'	27:1J:47:C:H6	1.67	0.60
30:29:12:THR:O	30:29:23:VAL:HG22	2.00	0.60
9:8E:55:ALA:HB1	9:8E:58:HIS:HB2	1.83	0.60
22:1K:18:G:H4'	22:1K:61:U:N3	2.16	0.60
26:1H:2392:A:OP2	59:Q8:31:HIS:HD2	1.83	0.60
26:1H:2593:U:H2'	26:1H:2594:C:C6	2.37	0.60
34:28:28:LYS:NZ	34:28:29:GLU:HG3	2.17	0.60
26:14:270(L):U:O2'	26:14:270(N):G:N2	2.34	0.60
32:49:107:LEU:HD11	32:49:178:PHE:HE1	1.66	0.60
50:D5:157:LEU:HD12	50:D5:161:VAL:HG11	1.84	0.60
1:13:362:G:OP2	63:13:1952:HOH:O	2.16	0.60
22:1K:61:U:H5'	22:1K:62:C:H5	1.67	0.60
26:1H:2343:C:HO2'	26:1H:2373:G:HO2'	1.48	0.60
26:1H:2679:A:H4'	30:21:165:VAL:HG11	1.83	0.60
28:71:211:SER:HB2	28:71:223:ARG:HH21	1.65	0.60
37:48:34:ILE:HG13	37:48:38:VAL:HG22	1.82	0.60
4:32:119:GLN:O	4:32:123:HIS:HD2	1.84	0.60
4:32:150:GLU:C	4:32:152:SER:H	2.09	0.60
15:6A:75:PRO:HB2	15:6A:79:ARG:NH2	2.09	0.60
26:14:363:G:H2'	26:14:363(A):A:H8	1.65	0.60
26:14:871:U:OP1	41:45:5:ARG:NH1	2.35	0.60
30:29:49:LEU:H	30:29:49:LEU:HD12	1.67	0.60
31:39:165:ARG:HA	31:39:168:ARG:HD3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:50:ALA:HA	32:49:53:LEU:HD23	1.84	0.60
49:C5:36:ALA:HA	49:C5:67:LEU:O	2.01	0.60
1:13:793:U:H5'	1:13:794:A:H5"	1.84	0.60
12:3I:47:LYS:HA	12:3I:49:ASN:H	1.66	0.60
26:1H:728:G:H4'	29:11:13:ARG:HD3	1.83	0.60
26:1H:848:G:H2'	26:1H:849:A:C8	2.37	0.60
26:1H:2849:U:O4	44:B8:23:ARG:NH2	2.35	0.60
30:21:51:PHE:O	30:21:74:PRO:HB2	2.00	0.60
38:58:99:LEU:O	38:58:103:VAL:HG23	2.02	0.60
1:1G:345:C:OP2	44:75:39:ARG:NH2	2.32	0.60
8:72:20:TYR:HA	8:72:65:TYR:CZ	2.35	0.60
26:14:67:U:H2'	26:14:68:G:H8	1.65	0.60
26:14:1403:C:OP1	26:14:1522:G:N2	2.29	0.60
26:14:1800:C:OP2	29:19:183:ARG:NH2	2.34	0.60
29:19:11:PRO:O	29:19:12:SER:OG	2.17	0.60
39:25:68:GLU:OE2	39:25:78:ARG:NH1	2.35	0.60
41:45:20:ALA:HA	41:45:99:PRO:HG2	1.83	0.60
1:13:1435:G:H2'	1:13:1436:U:C6	2.36	0.60
8:7E:6:ILE:HB	8:7E:85:ARG:HH12	1.66	0.60
24:3K:46:G:O2'	24:3K:47:G:H5'	2.02	0.60
26:1H:1077:A:H3'	26:1H:1078:U:H5'	1.84	0.60
26:1H:2629:A:O2'	26:1H:2630:G:H5"	2.01	0.60
27:16:7:G:H4'	43:A8:29:PHE:CD2	2.37	0.60
33:51:4:ILE:HG23	33:51:6:ARG:N	2.13	0.60
35:61:69:LYS:HA	35:61:136:VAL:HB	1.84	0.60
37:48:125:ARG:HE	37:48:132:ARG:NH2	2.00	0.60
46:D8:65:GLY:HA3	46:D8:91:TYR:CE1	2.36	0.60
49:G8:55:TYR:HB3	49:G8:58:GLY:HA3	1.83	0.60
1:1G:1321:C:H41	1:1G:1322:C:H41	1.50	0.60
5:42:123:LEU:HD23	5:42:126:ARG:HH12	1.66	0.60
26:14:2273:A:H2'	26:14:2274:A:C8	2.37	0.60
26:14:2377:A:O3'	43:65:111:GLU:HG2	2.02	0.60
31:39:25:PRO:HB2	31:39:27:GLU:H	1.67	0.60
31:39:89:VAL:HG12	31:39:90:PHE:H	1.67	0.60
2:1E:206:ASP:O	2:1E:210:SER:OG	2.13	0.59
13:4I:8:GLU:O	13:4I:10:PRO:HD3	2.02	0.59
48:F8:49:VAL:HG12	48:F8:50:LYS:N	2.16	0.59
1:1G:963:G:H21	10:1A:55:LYS:CD	2.14	0.59
2:12:236:TYR:HB3	2:12:239:VAL:HB	1.82	0.59
19:AA:56:GLN:HG2	19:AA:57:HIS:H	1.67	0.59
26:14:21:A:H61	26:14:519:U:H3	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:71:A:H4'	26:14:72:U:H5"	1.84	0.59
26:14:113:G:OP1	63:14:3869:HOH:O	2.17	0.59
30:29:87:GLU:O	30:29:89:ASP:N	2.34	0.59
49:C5:49:VAL:O	49:C5:51:VAL:N	2.35	0.59
1:13:376:G:H5"	16:7I:5:ARG:HB2	1.83	0.59
10:1I:37:PRO:HA	10:1I:72:VAL:HG22	1.83	0.59
17:8I:45:HIS:O	17:8I:73:VAL:HG23	2.02	0.59
29:11:108:PRO:HG3	29:11:143:HIS:CE1	2.37	0.59
38:58:93:THR:HG22	38:58:94:HIS:ND1	2.17	0.59
44:B8:24:PRO:HA	44:B8:49:VAL:HG13	1.84	0.59
45:C8:28:ARG:HD3	45:C8:38:THR:OG1	2.02	0.59
1:1G:581:G:OP1	15:6A:61:GLY:HA3	2.02	0.59
8:72:11:THR:HG23	8:72:14:ARG:NH1	2.17	0.59
26:14:2807:G:N2	26:14:2892:A:H62	2.00	0.59
32:49:34:LEU:HB3	32:49:99:MET:HE1	1.85	0.59
39:25:63:VAL:HG12	39:25:106:LEU:HD11	1.82	0.59
45:85:106:PHE:HA	45:85:109:LEU:HD12	1.84	0.59
50:D5:10:ARG:NH2	50:D5:26:GLY:O	2.36	0.59
1:13:87:A:H2'	1:13:88:C:C6	2.37	0.59
1:13:110:C:H2'	1:13:111:G:O4'	2.03	0.59
26:1H:299:A:OP2	63:1H:3942:HOH:O	2.17	0.59
26:1H:1449:A:H5'	26:1H:1449(A):G:OP2	2.01	0.59
33:51:20:ALA:HB3	33:51:23:ARG:HG2	1.84	0.59
44:B8:105:LEU:HG	44:B8:109:GLU:HB3	1.83	0.59
49:G8:85:VAL:HB	49:G8:98:VAL:HG23	1.85	0.59
1:1G:555:C:H2'	1:1G:556:C:C6	2.37	0.59
12:3A:34:ARG:HB2	12:3A:34:ARG:HH11	1.67	0.59
24:3L:52:A:H61	24:3L:64:U:H3	1.50	0.59
26:14:271(B):G:H4'	26:14:271(C):U:H5'	1.84	0.59
26:14:784:A:H5'	26:14:785:G:OP1	2.02	0.59
26:14:997:G:O2'	26:14:998:C:H5'	2.02	0.59
35:69:54:GLN:HA	35:69:57:ARG:HB3	1.83	0.59
45:85:92:ARG:NH2	46:95:10:LYS:HA	2.17	0.59
52:F5:41:ARG:HB2	52:F5:43:TYR:HE1	1.66	0.59
1:13:688:G:H2'	1:13:689:C:H6	1.67	0.59
6:5E:101:ALA:HB2	18:9I:28:GLU:HB2	1.85	0.59
11:2I:82:VAL:HG12	11:2I:108:ILE:HG13	1.84	0.59
22:1K:9:A:H4'	22:1K:10:G:OP2	2.01	0.59
24:3K:51:G:H2'	24:3K:52:A:C8	2.36	0.59
26:1H:357:A:H2'	26:1H:358:U:H6	1.65	0.59
26:1H:587:C:OP2	40:78:21:ARG:NH2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:620:G:H4'	26:1H:621:A:C5'	2.32	0.59
27:16:15:A:H5'	27:16:16:G:H8	1.67	0.59
32:41:109:VAL:O	32:41:113:ARG:HG3	2.03	0.59
34:18:20:LEU:O	34:18:24:ILE:N	2.35	0.59
41:88:139:GLU:HG3	50:H8:122:ARG:HH12	1.68	0.59
1:1G:323:U:O3'	20:BA:22:ARG:HD3	2.02	0.59
1:1G:920:U:H2'	1:1G:921:U:C6	2.37	0.59
1:1G:1368:G:O2'	1:1G:1369:C:H5'	2.03	0.59
2:12:72:GLY:HA3	2:12:81:VAL:HG21	1.83	0.59
26:14:67:U:H2'	26:14:68:G:C8	2.38	0.59
26:14:2164:C:N3	26:14:2165:G:N2	2.50	0.59
27:1J:15:A:H1'	27:1J:109:G:C8	2.37	0.59
46:95:5:VAL:HG12	46:95:37:VAL:HB	1.85	0.59
1:13:21:G:OP1	63:13:1953:HOH:O	2.17	0.59
1:13:598:U:H4'	8:7E:94:TYR:CD2	2.38	0.59
1:13:1117:G:H5"	9:8E:104:ARG:CZ	2.32	0.59
1:13:1145:C:H5"	1:13:1146:A:OP1	2.03	0.59
2:1E:178:ARG:HG3	8:7E:72:PRO:HA	1.83	0.59
3:2E:18:TRP:CD1	14:5I:55:GLY:H	2.21	0.59
4:3E:31:CYS:SG	4:3E:33:MET:HB2	2.42	0.59
14:5I:23:ARG:HD2	14:5I:28:GLY:O	2.02	0.59
26:1H:1094:U:O2'	26:1H:1096:A:OP1	2.20	0.59
26:1H:2702:U:H5"	26:1H:2702:U:C6	2.37	0.59
26:1H:2705:A:OP2	63:1H:3934:HOH:O	2.16	0.59
1:1G:411:A:H62	1:1G:413:G:N2	1.99	0.59
2:12:236:TYR:HB2	2:12:239:VAL:HB	1.83	0.59
8:72:69:ARG:HD2	8:72:76:PRO:HA	1.84	0.59
8:72:121:ASP:OD1	8:72:125:ARG:NH2	2.36	0.59
12:3A:84:LEU:HD12	12:3A:105:TYR:CE2	2.37	0.59
19:AA:40:ILE:HA	19:AA:44:MET:SD	2.43	0.59
26:14:180:G:N2	26:14:214:G:N7	2.48	0.59
26:14:780:G:N2	26:14:783:A:H62	1.96	0.59
26:14:2129:C:H5"	26:14:2130:U:C5	2.38	0.59
28:79:14:VAL:HA	28:79:20:TYR:HE2	1.67	0.59
30:29:13:ARG:HH21	44:75:77:PRO:HB3	1.67	0.59
33:59:74:ASN:HA	33:59:77:LYS:HB3	1.83	0.59
1:13:578:C:OP1	63:13:1955:HOH:O	2.17	0.59
2:1E:187:LEU:HD11	2:1E:204:ASN:O	2.03	0.59
7:6E:150:ALA:HB2	11:2I:50:TYR:HE2	1.67	0.59
10:1I:77:PRO:O	10:1I:79:ARG:NH1	2.35	0.59
17:8I:29:HIS:N	17:8I:34:LYS:O	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:761:A:OP1	63:1H:3941:HOH:O	2.17	0.59
26:1H:969:U:O3'	54:L8:14:GLY:HA2	2.02	0.59
26:1H:1676:A:OP2	63:1H:3924:HOH:O	2.15	0.59
26:1H:2172:U:H5'	26:1H:2173:A:OP2	2.02	0.59
34:18:28:LYS:HB3	34:28:2:ALA:HB3	1.85	0.59
37:48:52:ILE:HD11	37:48:76:TYR:HB2	1.85	0.59
42:98:26:LYS:HE2	42:98:70:LEU:O	2.02	0.59
43:A8:24:LEU:HD12	43:A8:41:ASP:HB2	1.83	0.59
43:A8:32:LEU:O	43:A8:62:LYS:NZ	2.35	0.59
45:C8:88:ILE:HG22	45:C8:90:VAL:HB	1.85	0.59
1:1G:1256:A:N6	1:1G:1278:U:OP2	2.36	0.59
1:1G:1325:C:OP2	21:1B:15:ARG:NH2	2.28	0.59
2:12:12:GLU:HB2	2:12:16:HIS:ND1	2.18	0.59
4:32:4:TYR:HE2	4:32:11:LEU:HD11	1.67	0.59
9:82:111:ARG:HB3	9:82:113:LYS:HE2	1.85	0.59
26:14:1516:U:H2'	26:14:1517:G:H8	1.67	0.59
1:13:1110:A:OP2	63:13:1956:HOH:O	2.17	0.59
4:3E:150:GLU:HA	4:3E:153:ARG:HG3	1.83	0.59
26:1H:1329:U:H5"	26:1H:1330:C:H5	1.67	0.59
41:88:23:GLY:O	41:88:25:ASP:HB3	2.02	0.59
1:1G:1027:C:O2'	1:1G:1035:A:N6	2.36	0.59
1:1G:1052:U:O2'	1:1G:1055:A:OP2	2.18	0.59
1:1G:1281:U:H3'	1:1G:1282:C:C5	2.37	0.59
3:22:129:ALA:H	3:22:132:ARG:HH21	1.49	0.59
14:5A:29:ARG:HD3	14:5A:40:CYS:CB	2.32	0.59
15:6A:5:LYS:O	15:6A:9:GLN:HG2	2.03	0.59
26:14:184:C:H2'	26:14:185:U:C6	2.38	0.59
26:14:673:C:H4'	31:39:82:ILE:HG12	1.85	0.59
26:14:1667:G:H2'	63:14:4374:HOH:O	2.02	0.59
44:75:64:ARG:HB2	44:75:73:GLU:HG2	1.85	0.59
7:6E:45:ASP:O	7:6E:49:ILE:HG12	2.03	0.59
13:4I:65:LYS:HD2	13:4I:69:GLU:HB3	1.84	0.59
13:4I:82:MET:C	13:4I:84:ILE:H	2.11	0.59
17:8I:88:TYR:HD1	17:8I:89:LEU:HD22	1.67	0.59
23:2K:17:C:HO2'	23:2K:18:C:H5	1.50	0.59
26:1H:249:C:P	63:1H:3920:HOH:O	2.61	0.59
26:1H:270(G):C:H2'	26:1H:270(H):C:C6	2.38	0.59
26:1H:664:C:P	40:78:18:ARG:HH21	2.26	0.59
26:1H:1534:G:H2'	26:1H:1535:U:O4'	2.03	0.59
26:1H:2272:U:O4	63:1H:3926:HOH:O	2.15	0.59
31:31:39:TRP:CZ3	31:31:106:ARG:HD2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:878:G:H5'	8:72:89:PRO:HG2	1.85	0.59
2:12:22:LYS:HA	2:12:24:TRP:CD1	2.38	0.59
6:52:77:ARG:HH21	6:52:78:GLU:HG2	1.67	0.59
26:14:823:G:H2'	26:14:824:A:C8	2.37	0.59
26:14:1486:A:H2'	26:14:1487:G:H8	1.66	0.59
26:14:1784:A:H4'	26:14:1785:A:O5'	2.01	0.59
26:14:2298:A:H62	26:14:2318:G:H8	1.50	0.59
26:14:2567:G:O6	63:14:3868:HOH:O	2.17	0.59
33:59:33:LEU:HG	33:59:79:VAL:HG13	1.83	0.59
43:65:95:HIS:HA	43:65:99:LYS:HD2	1.83	0.59
50:D5:82:ARG:HG2	50:D5:82:ARG:HH11	1.67	0.59
59:M5:14:VAL:HG11	59:M5:58:ILE:HD11	1.83	0.59
1:13:148:G:H2'	1:13:149:A:C8	2.38	0.59
13:4I:79:LYS:O	13:4I:83:ASP:HB2	2.03	0.59
17:8I:11:VAL:HG12	17:8I:85:VAL:HG13	1.85	0.59
26:1H:784:A:C5	29:11:229:VAL:HG21	2.38	0.59
26:1H:1517:G:H2'	26:1H:1518:C:C6	2.38	0.59
26:1H:2163:C:H2'	26:1H:2164:C:O4'	2.01	0.59
40:78:71:VAL:HG13	40:78:72:PRO:HD3	1.83	0.59
45:C8:50:ARG:HH22	46:D8:72:VAL:HG23	1.68	0.59
1:1G:683:G:H2'	1:1G:684:A:H8	1.66	0.59
1:1G:1505:G:H4'	1:1G:1506:U:H5"	1.84	0.59
7:62:20:ASP:HB3	7:62:23:VAL:HB	1.84	0.59
15:6A:5:LYS:HE3	15:6A:5:LYS:H	1.68	0.59
26:14:2250:G:OP1	41:45:83:MET:HE3	2.01	0.59
26:14:2295:C:H41	43:65:13:ARG:NH2	2.00	0.59
29:19:65:ILE:HD11	29:19:67:PHE:CZ	2.37	0.59
45:85:69:CYS:O	45:85:74:LEU:HD12	2.03	0.59
48:B5:18:TYR:O	48:B5:21:PHE:N	2.24	0.59
51:E5:70:GLN:NE2	51:E5:72:ARG:HD2	2.16	0.59
1:13:280:C:C2	17:8I:38:ARG:HG3	2.37	0.59
4:3E:18:LYS:HD3	4:3E:31:CYS:SG	2.43	0.59
13:4I:74:VAL:O	13:4I:78:ILE:HG12	2.02	0.59
15:6I:79:ARG:NH1	15:6I:83:GLU:OE2	2.36	0.59
17:8I:82:MET:O	17:8I:86:GLU:HG2	2.03	0.59
26:1H:646:A:H2'	26:1H:647:G:O4'	2.02	0.59
26:1H:988:A:P	54:L8:11:SER:HB2	2.43	0.59
26:1H:1250:G:H5'	63:1H:4998:HOH:O	2.03	0.59
26:1H:1264:G:OP1	56:N8:19:ARG:NH2	2.25	0.59
26:1H:2331:G:H4'	51:I8:43:THR:H	1.67	0.59
26:1H:2600:A:N6	63:1H:3728:HOH:O	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:18:4:ASP:HA	34:18:7:ARG:HB2	1.84	0.59
45:C8:19:LYS:O	45:C8:22:LYS:HG3	2.02	0.59
1:1G:690:G:H2'	1:1G:691:G:O4'	2.02	0.59
1:1G:973:G:H3'	1:1G:974:A:H5"	1.84	0.59
1:1G:1007:C:N3	1:1G:1023:G:N1	2.51	0.59
1:1G:1387:G:H2'	1:1G:1388:C:H6	1.68	0.59
26:14:71:A:H5'	26:14:71:A:H8	1.66	0.59
26:14:389:G:H22	40:35:71:VAL:HG12	1.67	0.59
26:14:1568:G:OP2	29:19:63:ARG:NH2	2.30	0.59
39:25:88:ASN:O	39:25:91:LEU:N	2.36	0.59
43:65:18:ILE:C	43:65:20:ARG:HD3	2.28	0.59
44:75:31:SER:HB3	44:75:42:ILE:HD13	1.85	0.59
45:85:92:ARG:HH22	46:95:10:LYS:HA	1.67	0.59
1:13:1106:G:H5"	3:2E:172:ARG:HG2	1.83	0.58
2:1E:24:TRP:CZ3	2:1E:26:PRO:HA	2.38	0.58
8:7E:87:SER:HB2	8:7E:93:VAL:HB	1.85	0.58
10:1I:8:LEU:HD12	10:1I:20:ALA:HB2	1.83	0.58
26:1H:733:G:OP2	63:1H:3937:HOH:O	2.16	0.58
26:1H:1085:A:O2'	26:1H:1086:A:O5'	2.21	0.58
26:1H:1210:A:H5'	26:1H:1210:A:C8	2.38	0.58
26:1H:2735:G:H2'	26:1H:2736:G:H8	1.68	0.58
30:21:6:GLY:HA2	30:21:51:PHE:CZ	2.37	0.58
40:78:116:GLY:H	40:78:134:ALA:HB2	1.68	0.58
47:E8:9:TYR:H	47:E8:102:HIS:HD2	1.51	0.58
48:F8:49:VAL:HG12	48:F8:50:LYS:H	1.68	0.58
1:1G:1105:A:H2'	1:1G:1106:G:H8	1.68	0.58
1:1G:1321:C:H3'	1:1G:1322:C:H5"	1.85	0.58
3:22:20:SER:OG	3:22:36:ASP:OD2	2.22	0.58
13:4A:114:ARG:O	13:4A:116:THR:OG1	2.21	0.58
26:14:588:U:H2'	26:14:589:C:C6	2.37	0.58
26:14:2468:G:H3'	26:14:2476:A:C2	2.38	0.58
33:59:125:VAL:HG13	33:59:126:PRO:HD3	1.85	0.58
43:65:49:VAL:HG21	43:65:77:ALA:HB2	1.84	0.58
8:7E:9:MET:HG3	8:7E:26:VAL:HG21	1.85	0.58
26:1H:1980:G:O2'	26:1H:1982:C:OP2	2.17	0.58
37:48:108:ALA:HB3	37:48:111:LYS:NZ	2.18	0.58
38:58:130:HIS:C	38:58:134:ARG:HH22	2.11	0.58
1:1G:1037:C:H2'	1:1G:1038:C:C6	2.38	0.58
22:1L:73:C:HO2'	22:1L:74:A:H8	1.51	0.58
26:14:1062:G:N2	26:14:1077:A:N3	2.51	0.58
26:14:2351:G:OP2	59:M5:46:ARG:NH1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:453:A:H4'	16:7I:72:ARG:HB2	1.84	0.58
1:13:767:A:H3'	63:13:1919:HOH:O	2.04	0.58
1:13:1262:C:H2'	1:13:1263:C:C6	2.38	0.58
4:3E:162:LEU:HD12	4:3E:181:MET:HE2	1.85	0.58
23:2K:17:C:OP2	23:2K:18:C:O2'	2.20	0.58
26:1H:341:G:OP2	63:1H:3946:HOH:O	2.17	0.58
26:1H:958:U:H5'	41:88:14:ARG:HD3	1.86	0.58
26:1H:1109:C:O2'	26:1H:1110:G:OP1	2.15	0.58
26:1H:2126:A:N6	26:1H:2163:C:HO2'	2.00	0.58
27:16:94:C:H2'	27:16:95:U:C6	2.37	0.58
32:41:97:ASP:HA	32:41:100:TRP:HD1	1.68	0.58
34:18:24:ILE:HG23	34:18:25:ASP:N	2.18	0.58
55:M8:9:LEU:HD12	55:M8:27:THR:H	1.67	0.58
1:1G:108:G:H5'	1:1G:109:A:H5"	1.84	0.58
1:1G:537:G:H5"	12:3A:113:ARG:HH12	1.68	0.58
7:62:141:VAL:HA	7:62:142:GLU:CB	2.32	0.58
12:3A:83:VAL:HG21	12:3A:100:ILE:HD12	1.84	0.58
22:1L:5:C:H42	22:1L:69:G:H1	1.51	0.58
26:14:138:G:N2	48:B5:44:GLU:OE2	2.29	0.58
26:14:872:A:H4'	41:45:66:ILE:HD11	1.83	0.58
26:14:1050:A:H2	26:14:2751:G:H2'	1.67	0.58
26:14:1188:U:O2'	26:14:1189:A:H5'	2.02	0.58
26:14:1456:G:OP2	63:14:3865:HOH:O	2.16	0.58
28:79:10:LEU:HB3	28:79:220:PRO:HD3	1.86	0.58
46:95:77:ALA:O	46:95:79:VAL:N	2.35	0.58
49:C5:17:SER:HB2	49:C5:71:LYS:HD2	1.85	0.58
49:C5:82:PRO:HB2	49:C5:100:ALA:H	1.68	0.58
1:13:476:G:H2'	1:13:477:G:C8	2.39	0.58
1:13:992:U:H4'	1:13:993:G:O5'	2.02	0.58
1:13:1292:U:H2'	1:13:1293:G:C8	2.39	0.58
3:2E:30:ARG:NH2	14:5I:35:ARG:O	2.36	0.58
6:5E:44:GLY:HA2	6:5E:59:TYR:CZ	2.38	0.58
19:AI:63:THR:HG23	19:AI:66:MET:HE3	1.85	0.58
23:2K:24:C:H2'	23:2K:25:U:C6	2.39	0.58
26:1H:443:A:H1'	26:1H:1201:C:O4'	2.03	0.58
26:1H:1140:C:OP1	38:58:23:LEU:HB3	2.03	0.58
26:1H:1814:G:P	29:11:40:THR:HG21	2.43	0.58
26:1H:2712(A):A:OP2	63:1H:3854:HOH:O	2.17	0.58
31:31:160:ASN:OD1	31:31:163:VAL:HG23	2.04	0.58
36:38:71:LEU:HD13	36:38:72:ASP:HB2	1.85	0.58
49:G8:55:TYR:CZ	49:G8:61:ILE:HD11	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:P8:26:GLY:O	58:P8:30:VAL:HG23	2.03	0.58
1:1G:537:G:H5"	12:3A:113:ARG:NH1	2.19	0.58
1:1G:857:C:H3'	1:1G:858:G:H8	1.68	0.58
2:12:100:GLY:N	2:12:176:GLU:OE2	2.27	0.58
2:12:111:ARG:HA	2:12:111:ARG:HH11	1.68	0.58
3:22:33:LEU:HD12	3:22:36:ASP:HB3	1.85	0.58
4:32:4:TYR:CE2	4:32:11:LEU:HD11	2.38	0.58
4:32:189:PRO:HB2	4:32:194:LEU:HD21	1.84	0.58
22:1L:31:G:H1	22:1L:41:C:H42	1.50	0.58
26:14:2355:C:H1'	51:E5:39:ARG:HH21	1.69	0.58
33:59:30:LYS:HB2	33:59:79:VAL:HA	1.84	0.58
48:B5:18:TYR:O	48:B5:20:GLY:N	2.37	0.58
58:L5:1:MET:HE2	58:L5:1:MET:HA	1.85	0.58
1:13:1239:A:H62	1:13:1299:A:N6	2.01	0.58
8:7E:34:GLU:OE1	8:7E:37:ARG:NH1	2.37	0.58
26:1H:860:U:C5	26:1H:917:A:C2	2.82	0.58
26:1H:1843:C:H5'	29:11:253:GLN:OE1	2.03	0.58
26:1H:2592:G:P	63:1H:3744:HOH:O	2.59	0.58
30:21:78:LEU:HD23	30:21:78:LEU:O	2.03	0.58
32:41:6:ALA:H	55:M8:23:GLU:HG3	1.69	0.58
36:38:12:THR:HG22	36:38:15:GLU:H	1.68	0.58
37:48:133:SER:HA	37:48:137:GLU:HG2	1.85	0.58
1:1G:1028:C:N3	1:1G:1033:G:N2	2.51	0.58
11:2A:57:THR:HG22	11:2A:59:TYR:H	1.68	0.58
22:1L:54:G:H4'	41:45:56:ARG:CZ	2.34	0.58
26:14:1664:A:OP2	63:14:3870:HOH:O	2.17	0.58
48:B5:9:LEU:HA	53:G5:36:ARG:NH2	2.18	0.58
1:13:984:C:N4	1:13:1221:G:H1	2.00	0.58
26:1H:143:C:H5'	48:F8:35:THR:CG2	2.32	0.58
26:1H:2711:A:OP2	63:1H:3875:HOH:O	2.16	0.58
35:61:92:VAL:HG13	35:61:120:ILE:HG23	1.84	0.58
1:1G:36:C:OP1	12:3A:123:LYS:NZ	2.30	0.58
1:1G:501:C:H2'	1:1G:502:G:C8	2.39	0.58
5:42:76:ILE:HG23	5:42:142:LEU:HD13	1.86	0.58
26:14:1817:G:OP1	29:19:88:ARG:NH2	2.34	0.58
26:14:2719:G:OP2	63:14:3866:HOH:O	2.17	0.58
26:14:2784:C:O2	30:29:37:ARG:NH2	2.36	0.58
30:29:102:VAL:HB	30:29:199:ARG:O	2.03	0.58
40:35:28:GLY:O	40:35:31:ALA:N	2.36	0.58
40:35:56:SER:HB3	40:35:61:ARG:HD3	1.86	0.58
45:85:66:ASN:ND2	45:85:70:ARG:HE	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D5:54:HIS:HB3	50:D5:101:PRO:HD3	1.84	0.58
1:13:57:G:H2'	1:13:58:C:C6	2.38	0.58
1:13:259:G:O6	63:13:1951:HOH:O	2.15	0.58
7:6E:64:GLN:HB3	7:6E:128:ALA:HB1	1.86	0.58
17:8I:28:PRO:HA	17:8I:35:VAL:HA	1.85	0.58
26:1H:607:U:OP1	31:31:102:PRO:HA	2.02	0.58
26:1H:1170:G:N2	26:1H:1180:C:N3	2.51	0.58
26:1H:2284:C:H41	57:O8:25:LYS:HZ1	1.51	0.58
31:31:116:ASP:OD2	40:78:1:MET:HB2	2.04	0.58
36:38:138:LEU:HD13	36:38:141:VAL:HG12	1.85	0.58
48:F8:55:ASN:HB2	48:F8:80:ILE:HG13	1.84	0.58
1:1G:19:C:OP1	5:42:125:SER:OG	2.21	0.58
26:14:483:A:C4	49:C5:60:PHE:HE2	2.22	0.58
26:14:960:A:H61	41:45:82:ARG:NH2	2.02	0.58
26:14:1035:U:H2'	26:14:1036:G:C8	2.38	0.58
26:14:2275:C:C6	26:14:2275:C:H5'	2.38	0.58
27:1J:87:G:H3'	27:1J:88:C:O4'	2.03	0.58
30:29:76:ARG:HG2	30:29:195:LEU:HD13	1.84	0.58
41:45:27:VAL:HG11	41:45:134:ARG:HA	1.85	0.58
43:65:20:ARG:HH21	43:65:21:THR:HG1	1.46	0.58
48:B5:63:LYS:HE3	48:B5:63:LYS:N	2.18	0.58
1:13:1534:A:N6	25:4K:11:U:O2'	2.36	0.58
13:4I:23:TYR:HD2	13:4I:67:GLU:HA	1.68	0.58
13:4I:54:VAL:HG22	13:4I:57:ARG:HH22	1.68	0.58
26:1H:1156:A:C8	45:C8:51:LYS:HG2	2.38	0.58
26:1H:1728:G:N2	26:1H:1730:U:OP2	2.37	0.58
26:1H:2057:A:OP2	63:1H:3944:HOH:O	2.17	0.58
26:1H:2238:G:O3'	63:1H:3940:HOH:O	2.17	0.58
49:G8:39:VAL:O	49:G8:42:VAL:HG13	2.03	0.58
57:O8:25:LYS:HE2	57:O8:27:LYS:HD3	1.84	0.58
1:1G:1411:C:H2'	1:1G:1412:C:C6	2.38	0.58
7:62:12:LEU:HD21	7:62:28:ASN:HD21	1.67	0.58
20:BA:42:GLN:O	20:BA:45:GLN:HB3	2.04	0.58
26:14:1796:U:H2'	26:14:1797:C:C6	2.39	0.58
29:19:70:TRP:CD1	29:19:70:TRP:C	2.82	0.58
29:19:244:ARG:HB2	29:19:245:PRO:HD2	1.84	0.58
33:59:77:LYS:HE2	33:59:81:GLU:HB3	1.86	0.58
41:45:21:THR:HG22	41:45:23:GLY:HA3	1.86	0.58
1:13:766:A:OP2	63:13:1954:HOH:O	2.17	0.58
24:3K:49:C:O2	24:3K:60:A:H1'	2.03	0.58
25:4K:22:A:H5'	25:4K:23:A:OP2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:184:C:H2'	26:1H:185:U:H6	1.68	0.58
44:B8:26:ASP:HB3	44:B8:92:GLY:H	1.68	0.58
57:O8:25:LYS:HG2	57:O8:27:LYS:HE3	1.84	0.58
1:1G:540:G:H2'	1:1G:541:G:O4'	2.04	0.58
1:1G:1125:U:H2'	1:1G:1126:U:C5	2.38	0.58
1:1G:1179:A:OP2	9:82:93:ARG:NH2	2.37	0.58
2:12:98:LEU:HB2	2:12:101:MET:HE3	1.85	0.58
2:12:168:THR:HG23	2:12:192:SER:HB3	1.86	0.58
3:22:32:LEU:HD22	3:22:59:ARG:HH12	1.69	0.58
5:42:81:GLU:HB3	5:42:90:VAL:HG13	1.85	0.58
13:4A:49:THR:N	13:4A:52:GLU:OE1	2.28	0.58
22:1L:17:U:H1'	22:1L:18:G:OP2	2.04	0.58
26:14:1794:U:H2'	26:14:1795:C:C6	2.39	0.58
26:14:2113:U:O4	26:14:2168:G:H4'	2.04	0.58
26:14:2250:G:N1	41:45:82:ARG:HD2	2.19	0.58
30:29:89:ASP:HB2	30:29:91:VAL:HG13	1.85	0.58
41:45:37:LEU:HD21	41:45:130:LYS:HG2	1.85	0.58
1:13:567:G:OP2	63:13:1936:HOH:O	2.16	0.58
1:13:955:U:H1'	1:13:1227:A:H61	1.69	0.58
1:13:1348:U:H4'	9:8E:120:ARG:HD2	1.84	0.58
24:3K:54:G:O6	24:3K:62:C:N4	2.36	0.58
27:16:80:U:H2'	27:16:81:G:H21	1.67	0.58
1:1G:243:A:H4'	1:1G:244:U:H5"	1.85	0.58
2:12:58:ILE:O	2:12:62:ALA:N	2.36	0.58
3:22:95:THR:O	3:22:97:LYS:N	2.37	0.58
26:14:399:G:OP2	63:14:3871:HOH:O	2.17	0.58
26:14:739:G:OP1	63:14:3872:HOH:O	2.17	0.58
29:19:10:THR:OG1	29:19:13:ARG:HB2	2.04	0.58
29:19:30:GLU:HG3	29:19:63:ARG:CZ	2.34	0.58
50:D5:27:VAL:HG12	50:D5:87:ASP:HB3	1.84	0.58
50:D5:93:ASP:HA	50:D5:130:PRO:HD2	1.85	0.58
1:13:196:A:O2'	1:13:197:A:H2'	2.04	0.57
1:13:284:G:H2'	1:13:285:G:C8	2.39	0.57
1:13:321:A:N7	1:13:328:C:C6	2.72	0.57
1:13:1152:A:H4'	10:1I:13:HIS:CD2	2.39	0.57
19:AI:25:LYS:HG3	19:AI:25:LYS:O	2.04	0.57
20:BI:45:GLN:HB2	20:BI:91:LEU:HD13	1.86	0.57
26:1H:500:G:N2	26:1H:502:A:H3'	2.19	0.57
26:1H:630:G:OP2	59:Q8:15:LYS:NZ	2.35	0.57
26:1H:1430:C:H2'	26:1H:1431:U:C6	2.39	0.57
26:1H:2287:A:C2	26:1H:2346:A:H2	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:35:GLU:HG3	32:41:36:LYS:HB2	1.86	0.57
35:61:31:LEU:HD21	35:61:38:LEU:HG	1.86	0.57
38:58:96:GLU:CD	38:58:96:GLU:H	2.11	0.57
53:K8:23:LYS:NZ	53:K8:27:GLU:OE2	2.37	0.57
1:1G:464:G:N2	1:1G:467:G:N7	2.52	0.57
1:1G:1512:U:H2'	1:1G:1513:A:H8	1.69	0.57
2:12:84:GLU:OE2	2:12:212:GLN:NE2	2.36	0.57
26:14:459:U:H4'	58:L5:40:TRP:CZ3	2.38	0.57
26:14:654(C):G:N2	26:14:654(R):C:O2'	2.37	0.57
26:14:1757:U:H3	26:14:1762:A:H2	1.50	0.57
26:14:2788:C:O2'	26:14:2809:A:N3	2.36	0.57
44:75:107:ASP:N	44:75:107:ASP:OD1	2.37	0.57
1:13:191(F):U:H2'	1:13:191:G:C8	2.39	0.57
1:13:626:U:C2	1:13:627:G:C8	2.92	0.57
1:13:667:G:H4'	15:6I:51:HIS:CE1	2.40	0.57
11:2I:59:TYR:CZ	11:2I:63:LEU:HD11	2.39	0.57
26:1H:85:G:OP2	49:G8:9:LYS:HB2	2.04	0.57
26:1H:125:G:H5'	26:1H:125:G:C8	2.39	0.57
26:1H:638:G:H2'	26:1H:639:U:H6	1.69	0.57
26:1H:818:G:H5'	26:1H:839:U:OP1	2.04	0.57
26:1H:2023:G:H5'	26:1H:2617:C:H4'	1.85	0.57
26:1H:2636:U:OP1	30:21:79:ARG:HA	2.04	0.57
40:78:88:LEU:HD12	40:78:95:VAL:HG11	1.84	0.57
57:O8:25:LYS:HB2	59:Q8:34:TRP:CD1	2.39	0.57
1:1G:600:C:H2'	1:1G:601:C:C6	2.39	0.57
1:1G:1368:G:OP1	9:82:111:ARG:NH2	2.36	0.57
3:22:90:GLU:H	3:22:90:GLU:CD	2.12	0.57
13:4A:82:MET:HG3	13:4A:83:ASP:H	1.69	0.57
26:14:2646:C:H2'	26:14:2647:U:O4'	2.04	0.57
27:1J:2:C:H2'	27:1J:3:C:H6	1.69	0.57
27:1J:101:A:N7	63:1J:303:HOH:O	2.31	0.57
28:79:175:VAL:O	28:79:188:ASN:ND2	2.37	0.57
33:59:26:VAL:HG11	33:59:33:LEU:HB2	1.84	0.57
40:35:96:THR:OG1	40:35:97:PRO:O	2.21	0.57
41:45:138:ASP:OD1	41:45:138:ASP:N	2.36	0.57
1:13:403:C:O3'	4:3E:122:ARG:HD2	2.04	0.57
2:1E:209:ARG:HD3	2:1E:239:VAL:HA	1.86	0.57
26:1H:528:A:OP1	63:1H:3938:HOH:O	2.16	0.57
2:12:178:ARG:NH1	2:12:196:LEU:O	2.37	0.57
7:62:145:ALA:O	7:62:147:ALA:N	2.36	0.57
13:4A:37:THR:O	13:4A:55:ARG:NH2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:3L:18:G:N2	24:3L:56:U:H3	1.99	0.57
24:3L:60:A:H3'	24:3L:60:A:N3	2.19	0.57
26:14:71:A:H2	48:B5:31:HIS:CE1	2.21	0.57
26:14:527:C:OP1	63:14:3874:HOH:O	2.18	0.57
26:14:1165:U:H2'	26:14:1166:C:C6	2.40	0.57
30:29:121:ASN:HB3	63:29:408:HOH:O	2.04	0.57
32:49:173:LEU:HD13	32:49:178:PHE:HD2	1.69	0.57
46:95:62:LEU:HD21	46:95:95:LEU:HB2	1.86	0.57
47:A5:71:VAL:HA	47:A5:107:LEU:HD12	1.87	0.57
1:13:284:G:H2'	1:13:285:G:H8	1.70	0.57
1:13:344:A:H5"	1:13:345:C:O2	2.04	0.57
1:13:625:G:H4'	16:7I:16:HIS:CD2	2.40	0.57
1:13:631:G:O2'	1:13:632:A:O5'	2.21	0.57
4:3E:155:LEU:O	4:3E:157:LEU:N	2.37	0.57
26:1H:991:C:H2'	26:1H:992:C:C6	2.38	0.57
26:1H:2597:G:O3'	63:1H:3837:HOH:O	2.17	0.57
28:71:168:THR:O	28:71:168:THR:OG1	2.23	0.57
32:41:59:GLU:HG2	32:41:148:MET:HE2	1.85	0.57
37:48:51:ALA:HB3	37:48:76:TYR:HD1	1.69	0.57
37:48:58:THR:HG22	37:48:59:ILE:H	1.69	0.57
56:N8:40:LYS:HG2	56:N8:47:PRO:HD2	1.84	0.57
1:1G:815:A:N7	1:1G:1509:C:O2'	2.37	0.57
1:1G:933:G:O6	7:62:3:ARG:NH2	2.38	0.57
1:1G:1502:A:H2	1:1G:1505:G:N1	1.99	0.57
7:62:111:ARG:NH2	7:62:122:HIS:HB3	2.19	0.57
26:14:748:G:OP2	47:A5:88:ARG:HG3	2.03	0.57
26:14:996:A:N6	26:14:1160:G:C6	2.72	0.57
26:14:1278:A:H2'	26:14:1279:G:C8	2.39	0.57
26:14:1386:C:H2'	26:14:1387:C:C6	2.39	0.57
26:14:2119:A:H62	26:14:2168:G:N2	2.02	0.57
26:14:2414:G:O2'	40:35:70:GLN:OE1	2.18	0.57
26:14:2745:C:H2'	26:14:2746:U:O4'	2.04	0.57
27:1J:104:A:H2'	27:1J:105:G:O4'	2.04	0.57
30:29:96:PHE:HD2	30:29:182:LEU:HD21	1.68	0.57
43:65:107:GLU:N	43:65:110:LEU:HD11	2.18	0.57
49:C5:82:PRO:HG3	49:C5:99:CYS:HB3	1.86	0.57
1:13:17:U:H2'	1:13:18:C:C6	2.39	0.57
1:13:266:G:H5"	1:13:267:C:H5	1.70	0.57
1:13:484:G:O2'	1:13:485:G:OP2	2.18	0.57
3:2E:3:ASN:N	3:2E:3:ASN:OD1	2.36	0.57
8:7E:10:LEU:HB3	8:7E:83:ILE:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:259:G:H21	26:1H:621:A:H8	1.51	0.57
26:1H:918:A:N3	27:16:80:U:O2'	2.35	0.57
26:1H:1945:G:H2'	26:1H:1946:U:C6	2.40	0.57
27:16:101:A:OP2	63:16:306:HOH:O	2.17	0.57
32:41:173:LEU:HB3	32:41:178:PHE:HD2	1.69	0.57
42:98:9:LYS:HA	42:98:17:ARG:HE	1.69	0.57
1:1G:588:G:H1	1:1G:651:C:N4	1.97	0.57
10:1A:51:ARG:HB2	10:1A:60:ARG:HA	1.84	0.57
22:1L:33:RSP:H5'A	22:1L:34:U:OP2	2.03	0.57
24:3L:3:A:H2'	24:3L:4:U:O4'	2.05	0.57
26:14:2:G:N3	26:14:2:G:H2'	2.19	0.57
26:14:491:G:H2'	26:14:492:A:H8	1.69	0.57
26:14:1530:G:O6	26:14:1542:G:N2	2.37	0.57
29:19:49:ILE:CD1	29:19:52:ARG:HA	2.35	0.57
1:13:138:G:H1	1:13:225:C:H42	1.52	0.57
3:2E:91:LEU:HB2	3:2E:99:VAL:HG21	1.87	0.57
15:6I:9:GLN:HA	15:6I:12:ILE:HD12	1.87	0.57
26:1H:1591:G:H2'	26:1H:1592:C:C6	2.40	0.57
26:1H:2492:U:H2'	26:1H:2493:U:C6	2.40	0.57
29:11:38:LYS:H	29:11:38:LYS:HZ3	1.52	0.57
46:D8:38:LEU:HD21	46:D8:55:ALA:HB1	1.86	0.57
55:M8:37:SER:C	55:M8:39:CYS:H	2.10	0.57
1:1G:1132:C:H2'	1:1G:1133:G:H8	1.69	0.57
1:1G:1305:G:H22	1:1G:1331:G:C2'	2.08	0.57
1:1G:1370:G:N7	63:1G:1871:HOH:O	2.32	0.57
3:22:55:VAL:HG13	3:22:68:VAL:HG13	1.86	0.57
4:32:22:LYS:HG3	61:32:303:SF4:S3	2.45	0.57
24:3L:6:U:H3	24:3L:68:G:N2	2.02	0.57
40:35:52:GLU:OE2	40:35:55:ARG:NH2	2.37	0.57
44:75:22:PHE:CE2	44:75:49:VAL:HG11	2.40	0.57
1:13:664:G:N2	1:13:741:G:H1	2.01	0.57
26:1H:589:C:H2'	26:1H:590:A:C8	2.39	0.57
26:1H:1255:U:O2'	63:1H:3943:HOH:O	2.17	0.57
26:1H:1729:A:O2'	26:1H:1730:U:H5"	2.04	0.57
27:16:102:G:O6	63:16:305:HOH:O	2.16	0.57
30:21:116:VAL:O	30:21:117:MET:HB3	2.02	0.57
31:31:29:ASN:H	31:31:112:MET:CE	2.15	0.57
35:61:113:ARG:HD2	35:61:131:LYS:HB2	1.87	0.57
36:38:32:LEU:HD21	36:38:107:VAL:HG13	1.85	0.57
36:38:52:PHE:HB2	36:38:53:VAL:CG2	2.34	0.57
39:68:104:ARG:NH1	44:B8:36:GLU:OE1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:H8:108:PRO:HB2	50:H8:112:ARG:HA	1.87	0.57
1:1G:1512:U:H2'	1:1G:1513:A:C8	2.40	0.57
7:62:50:ILE:HD12	7:62:61:VAL:HG11	1.87	0.57
7:62:69:VAL:HG22	7:62:135:VAL:HG22	1.85	0.57
11:2A:100:ALA:O	11:2A:102:GLY:N	2.37	0.57
13:4A:34:LEU:HD13	13:4A:41:PRO:HA	1.86	0.57
26:14:61:G:H1	26:14:93:C:H42	1.52	0.57
26:14:1224:G:N2	26:14:1227:A:OP2	2.32	0.57
26:14:1509:C:H5'	26:14:1510:A:C8	2.40	0.57
28:79:66:HIS:HB2	28:79:188:ASN:ND2	2.19	0.57
29:19:43:ARG:HH21	29:19:43:ARG:HG3	1.70	0.57
40:35:107:LYS:O	40:35:109:GLY:N	2.37	0.57
50:D5:67:LEU:HD21	50:D5:90:VAL:HG13	1.86	0.57
54:H5:40:THR:HG23	54:H5:43:ILE:HG13	1.86	0.57
1:13:97:U:H2'	1:13:99:C:C6	2.39	0.57
3:2E:74:GLY:HA2	3:2E:77:ILE:HB	1.85	0.57
6:5E:97:PHE:HD2	18:9I:31:LEU:HD21	1.69	0.57
16:7I:3:LYS:O	16:7I:21:VAL:HA	2.05	0.57
22:1K:23:G:O2'	22:1K:24:A:OP1	2.21	0.57
24:3K:2:C:H2'	24:3K:3:A:C8	2.40	0.57
26:1H:661:C:O3'	40:78:15:ARG:HG2	2.04	0.57
26:1H:1290:C:H2'	26:1H:1291:C:C6	2.39	0.57
26:1H:2378:A:O2'	43:A8:21:THR:HG21	2.05	0.57
32:41:16:ARG:O	32:41:20:ILE:HG13	2.05	0.57
32:41:37:VAL:O	32:41:94:LEU:HD23	2.05	0.57
1:1G:1162:C:N4	1:1G:1174:G:H1	2.03	0.57
10:1A:5:ARG:HG3	10:1A:73:ASP:OD1	2.05	0.57
18:9A:38:GLU:HG2	18:9A:39:VAL:N	2.19	0.57
26:14:1894:C:H2'	26:14:1895:C:H6	1.68	0.57
26:14:2575:C:OP1	30:29:144:ARG:HG3	2.04	0.57
40:35:122:PRO:HA	40:35:141:ALA:HB1	1.86	0.57
41:45:109:VAL:HA	41:45:113:GLN:HE21	1.69	0.57
49:C5:89:PHE:CE2	49:C5:91:GLU:HB3	2.39	0.57
50:D5:158:PRO:HD2	50:D5:161:VAL:HG21	1.87	0.57
1:13:49:U:C2	1:13:361:G:N2	2.73	0.57
1:13:105:G:H2'	1:13:106:C:C6	2.39	0.57
1:13:1314:C:N4	19:AI:4:SER:O	2.35	0.57
1:13:1412:C:H2'	1:13:1413:A:C8	2.40	0.57
19:AI:33:THR:OG1	19:AI:34:TRP:N	2.38	0.57
24:3K:15:G:H22	24:3K:60:A:H5"	1.69	0.57
24:3K:57:C:H2'	24:3K:58:G:C8	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:404:C:O2'	26:1H:405:U:OP2	2.20	0.57
26:1H:1997:G:N7	63:1H:4082:HOH:O	2.32	0.57
26:1H:2472:G:H22	26:1H:2476:A:H62	1.53	0.57
37:48:122:ALA:O	37:48:124:ALA:N	2.38	0.57
48:F8:3:THR:C	48:F8:5:TYR:H	2.07	0.57
1:1G:719:C:O2'	18:9A:49:LYS:HB3	2.04	0.57
4:32:190:ASP:HB3	4:32:192:GLU:HG3	1.86	0.57
9:82:70:LYS:O	9:82:74:ILE:HG13	2.04	0.57
17:8A:5:VAL:HG22	17:8A:60:ILE:HG12	1.86	0.57
20:BA:86:ARG:NH1	20:BA:86:ARG:HB2	2.20	0.57
26:14:1366:A:H2'	26:14:1367:A:O4'	2.05	0.57
26:14:2168:G:N2	26:14:2171:A:N1	2.52	0.57
32:49:6:ALA:HA	32:49:9:ARG:HB3	1.87	0.57
33:59:16:SER:O	33:59:18:GLU:HG2	2.05	0.57
35:69:101:LEU:HD23	35:69:101:LEU:H	1.70	0.57
1:13:276:G:O3'	17:8I:68:ARG:NH1	2.32	0.57
4:3E:36:ARG:HB3	4:3E:38:TYR:CZ	2.39	0.57
19:AI:32:LYS:HA	19:AI:50:ALA:HB3	1.87	0.57
26:1H:270(M):U:O2'	26:1H:270(N):G:O5'	2.21	0.57
26:1H:1067:A:H5"	26:1H:1068:G:N7	2.20	0.57
26:1H:2598:A:P	63:1H:3837:HOH:O	2.62	0.57
36:38:142:LEU:HD13	34:28:29:GLU:HB3	1.86	0.57
56:N8:40:LYS:CG	56:N8:47:PRO:HD2	2.35	0.57
2:12:72:GLY:O	2:12:74:LYS:N	2.37	0.57
5:42:70:PRO:HB2	5:42:77:PRO:HG3	1.85	0.57
10:1A:47:PHE:HE1	10:1A:63:PHE:HB2	1.70	0.57
12:3A:105:TYR:O	12:3A:107:ALA:N	2.38	0.57
13:4A:69:GLU:HA	32:49:118:ARG:HH22	1.69	0.57
26:14:1019:U:H2'	26:14:1020:A:C8	2.39	0.57
26:14:1050:A:C2	26:14:2751:G:H2'	2.40	0.57
26:14:1257:C:H4'	31:39:83:PHE:CD1	2.40	0.57
26:14:2147:G:H2'	26:14:2148:G:H4'	1.86	0.57
26:14:2296:U:OP2	43:65:9:ARG:NH1	2.31	0.57
27:1J:11:C:H3'	27:1J:12:C:C6	2.40	0.57
59:M5:37:SER:OG	59:M5:39:LYS:O	2.22	0.57
1:13:221:C:H2'	1:13:222:U:H6	1.69	0.56
2:1E:185:ILE:HG23	2:1E:199:TYR:HB2	1.86	0.56
6:5E:52:ILE:HG22	6:5E:86:ARG:HG2	1.87	0.56
22:1K:8:4SU:H6	22:1K:8:4SU:C5'	2.35	0.56
26:1H:1107:G:H2'	26:1H:1108:U:H6	1.70	0.56
30:21:18:ASP:HB3	44:B8:82:LEU:HD21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:31:28:ILE:HG22	31:31:112:MET:HE3	1.86	0.56
36:38:63:LEU:HB3	36:38:65:GLU:OE2	2.04	0.56
1:1G:298:A:O5'	1:1G:298:A:H8	1.87	0.56
1:1G:363:A:P	12:3A:33:ARG:HD2	2.45	0.56
5:42:12:LEU:HD22	5:42:13:ILE:H	1.69	0.56
12:3A:78:GLN:HG3	12:3A:80:HIS:H	1.69	0.56
26:14:456:C:C4	48:B5:69:TYR:HD2	2.23	0.56
26:14:486:C:O2'	47:A5:60:ASN:ND2	2.35	0.56
26:14:893:C:O2'	26:14:894:C:OP1	2.20	0.56
26:14:2689:U:OP2	26:14:2719:G:N2	2.37	0.56
32:49:76:SER:OG	32:49:84:LYS:N	2.37	0.56
41:45:16:ARG:O	41:45:17:LEU:HD23	2.04	0.56
49:C5:76:CYS:O	49:C5:78:ALA:N	2.37	0.56
22:1K:6:C:N4	22:1K:68:G:H1	2.03	0.56
26:1H:228:A:C8	26:1H:230:U:H1'	2.40	0.56
26:1H:836:G:H5"	26:1H:837:C:OP2	2.04	0.56
44:B8:7:ILE:O	44:B8:11:GLU:HG3	2.05	0.56
44:B8:125:ARG:O	44:B8:129:ARG:N	2.32	0.56
1:1G:4:U:C4	8:72:105:ARG:HD3	2.39	0.56
1:1G:1306:A:N6	1:1G:1331:G:O2'	2.39	0.56
4:32:196:LEU:H	4:32:196:LEU:HD12	1.70	0.56
7:62:145:ALA:C	7:62:147:ALA:H	2.13	0.56
18:9A:31:LEU:HD23	18:9A:31:LEU:H	1.69	0.56
26:14:528:A:C2	26:14:2042:A:H2'	2.41	0.56
26:14:639:U:H2'	26:14:640:C:C6	2.39	0.56
26:14:1678:G:H22	26:14:1989:G:N2	1.97	0.56
26:14:1899:G:N2	26:14:1902:C:H42	1.97	0.56
26:14:2115:G:N1	26:14:2117:A:N7	2.53	0.56
26:14:2689:U:P	26:14:2719:G:H22	2.27	0.56
40:35:52:GLU:O	40:35:54:GLY:N	2.38	0.56
41:45:31:ASP:N	41:45:106:VAL:O	2.38	0.56
1:13:154:C:N3	1:13:168:G:N2	2.53	0.56
1:13:323:U:H2'	1:13:324:G:O4'	2.04	0.56
1:13:1286:A:C8	1:13:1287:A:H4'	2.40	0.56
2:1E:16:HIS:ND1	2:1E:44:LEU:HD23	2.21	0.56
2:1E:237:ALA:O	2:1E:239:VAL:N	2.38	0.56
11:2I:32:ILE:HD12	11:2I:72:ALA:HB2	1.86	0.56
14:5I:4:LYS:O	14:5I:7:ILE:HG13	2.04	0.56
23:2K:24:C:H2'	23:2K:25:U:H6	1.69	0.56
24:3K:37:G:H2'	24:3K:38:A:H8	1.70	0.56
26:1H:270(H):C:H2'	26:1H:270(I):G:O4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:273(F):C:H3'	26:1H:274:G:H5"	1.87	0.56
26:1H:1315:C:OP2	63:1H:3945:HOH:O	2.17	0.56
26:1H:2134:A:H2	26:1H:2159:G:H1'	1.70	0.56
27:16:37:C:H2'	27:16:38:C:H5'	1.87	0.56
28:71:62:VAL:HB	28:71:163:PHE:HE1	1.71	0.56
33:51:25:LYS:HE2	33:51:34:GLU:HG2	1.87	0.56
34:18:15:ALA:HA	34:18:19:GLU:HG2	1.85	0.56
36:38:130:THR:O	36:38:134:LEU:HD13	2.05	0.56
38:58:9:VAL:HG21	38:58:39:ARG:NH1	2.19	0.56
40:78:31:ALA:O	40:78:32:THR:HG22	2.05	0.56
53:K8:2:LYS:O	53:K8:6:VAL:HG23	2.05	0.56
1:1G:660:G:H1	1:1G:745:C:H42	1.54	0.56
1:1G:1423:G:H2'	1:1G:1424:C:C6	2.40	0.56
1:1G:1446:A:C2	44:75:118:ARG:HD2	2.41	0.56
12:3A:33:ARG:H	12:3A:85:ILE:HG22	1.71	0.56
15:6A:70:LEU:HG	15:6A:78:TYR:HB2	1.88	0.56
18:9A:53:ARG:HA	18:9A:56:THR:OG1	2.05	0.56
22:1L:10:G:N2	22:1L:27:A:H1'	2.20	0.56
26:14:527:C:N3	63:14:4013:HOH:O	2.33	0.56
26:14:729:G:OP2	29:19:13:ARG:NH1	2.34	0.56
26:14:1316:U:H2'	26:14:1317:A:C8	2.41	0.56
26:14:2611:U:H6	26:14:2611:U:H5'	1.70	0.56
27:1J:90:C:P	41:45:16:ARG:HH21	2.28	0.56
29:19:134:ARG:HG3	29:19:135:PHE:CD2	2.40	0.56
33:59:6:ARG:HH21	33:59:54:ARG:NH1	2.03	0.56
35:69:7:GLU:HG3	35:69:8:PRO:HD2	1.87	0.56
39:25:122:LEU:HD13	44:75:72:VAL:HG11	1.87	0.56
40:35:85:LEU:HA	40:35:88:LEU:HD23	1.87	0.56
44:75:118:ARG:NH2	44:75:121:ILE:HG21	2.19	0.56
1:13:376:G:O3'	16:7I:5:ARG:NH1	2.30	0.56
1:13:645:C:H2'	1:13:646:U:O4'	2.06	0.56
1:13:730:G:C5	1:13:731:G:H1'	2.40	0.56
2:1E:86:GLU:O	2:1E:89:GLY:N	2.38	0.56
17:8I:13:ASP:OD1	17:8I:14:LYS:NZ	2.27	0.56
26:1H:142:G:H2'	26:1H:143:C:C6	2.40	0.56
26:1H:634:C:H2'	26:1H:635:C:C6	2.40	0.56
26:1H:1377:G:OP2	63:1H:3951:HOH:O	2.18	0.56
26:1H:2698:U:H2'	26:1H:2699:C:C6	2.40	0.56
31:31:181:LEU:O	31:31:205:ARG:NH2	2.37	0.56
42:98:51:LEU:HD22	42:98:66:VAL:HG13	1.87	0.56
1:1G:382:A:H2'	1:1G:383:A:H8	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:485:G:O2'	1:1G:486:U:O5'	2.22	0.56
26:14:247:G:H4'	26:14:386:G:C5	2.41	0.56
26:14:1115:G:H2'	26:14:1116:C:C6	2.39	0.56
26:14:1379:A:H1'	26:14:1380:G:OP1	2.05	0.56
31:39:53:THR:HG23	31:39:55:GLY:H	1.69	0.56
32:49:91:ARG:C	32:49:91:ARG:HE	2.13	0.56
49:C5:18:GLY:C	49:C5:20:TYR:H	2.12	0.56
1:13:373:A:H2'	1:13:374:A:C8	2.40	0.56
1:13:1118:C:OP1	9:8E:9:ARG:HD3	2.05	0.56
1:13:1442:G:H2'	1:13:1443:G:H5'	1.88	0.56
4:3E:167:GLY:HA2	29:19:135:PHE:CZ	2.40	0.56
22:1K:7:G:H3'	22:1K:8:4SU:C5'	2.35	0.56
26:1H:527:C:OP1	63:1H:3949:HOH:O	2.18	0.56
26:1H:770:G:OP1	58:P8:8:ASN:ND2	2.37	0.56
36:38:27:VAL:HG13	36:38:110:GLY:N	2.20	0.56
38:58:131:GLN:H	38:58:134:ARG:HH12	1.53	0.56
43:A8:25:ARG:HD2	43:A8:88:ASP:HB2	1.87	0.56
51:I8:11:ARG:HB2	51:I8:11:ARG:HH11	1.70	0.56
1:1G:604:G:H2'	1:1G:605:U:O4'	2.05	0.56
3:22:42:LEU:O	3:22:46:GLU:HG2	2.06	0.56
5:42:34:VAL:HG12	5:42:42:GLY:HA3	1.87	0.56
10:1A:45:ARG:O	10:1A:65:LEU:N	2.38	0.56
24:3L:48:U:OP1	24:3L:48:U:H2'	2.05	0.56
26:14:484:C:P	49:C5:49:VAL:HG23	2.46	0.56
26:14:1394:U:O2	48:B5:16:LYS:NZ	2.39	0.56
26:14:1945:G:H2'	26:14:1946:U:C6	2.39	0.56
26:14:2176:A:O2'	28:79:215:THR:HG21	2.05	0.56
26:14:2275:C:H5'	26:14:2275:C:H6	1.70	0.56
1:13:1175:G:H2'	1:13:1176:A:C8	2.40	0.56
20:BI:97:ALA:O	20:BI:99:LEU:N	2.39	0.56
26:1H:274:G:H1'	26:1H:276:A:C2	2.40	0.56
26:1H:2177:C:H5"	28:71:213:TYR:CD1	2.40	0.56
26:1H:2689:U:OP2	26:1H:2719:G:N2	2.35	0.56
40:78:50:ARG:HH21	40:78:50:ARG:HG3	1.70	0.56
44:B8:57:PHE:O	44:B8:58:ASN:ND2	2.39	0.56
48:F8:49:VAL:HG11	48:F8:83:VAL:HG12	1.88	0.56
1:1G:420:U:O2'	1:1G:423:G:O6	2.18	0.56
1:1G:1392:G:H21	1:1G:1502:A:H8	1.53	0.56
2:12:87:ARG:HH21	2:12:233:SER:HB3	1.69	0.56
2:12:119:GLU:OE2	2:12:153:ARG:NH2	2.38	0.56
5:42:51:VAL:O	5:42:55:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:52:15:ASP:O	6:52:19:LEU:HB2	2.06	0.56
10:1A:49:VAL:O	10:1A:60:ARG:HB2	2.05	0.56
26:14:459:U:H5"	58:L5:40:TRP:CD2	2.41	0.56
26:14:2607:G:H2'	26:14:2608:G:O4'	2.05	0.56
29:19:206:LEU:HD22	29:19:211:ARG:HG2	1.88	0.56
30:29:93:VAL:HG21	30:29:180:ASN:HA	1.88	0.56
31:39:121:GLY:O	31:39:122:LYS:HD3	2.06	0.56
31:39:122:LYS:HD2	31:39:191:ARG:HB3	1.87	0.56
41:45:66:ILE:HG22	41:45:104:PHE:CE1	2.38	0.56
46:95:38:LEU:HD22	46:95:55:ALA:C	2.30	0.56
52:F5:41:ARG:HB2	52:F5:43:TYR:CE1	2.41	0.56
1:13:278:G:C2	17:8I:95:TYR:HD2	2.23	0.56
1:13:1145:C:H4'	1:13:1146:A:H5'	1.87	0.56
13:4I:4:ILE:HG22	13:4I:5:ALA:H	1.71	0.56
20:BI:35:THR:HG22	20:BI:38:LYS:NZ	2.21	0.56
26:1H:1639:U:H4'	26:1H:2699:C:H4'	1.88	0.56
29:11:26:LYS:O	29:11:29:PRO:HD3	2.06	0.56
34:18:28:LYS:HB3	34:28:2:ALA:CB	2.35	0.56
41:88:7:MET:HE1	41:88:73:PRO:HD3	1.87	0.56
1:1G:502:G:H2'	1:1G:503:C:O4'	2.06	0.56
23:2L:11:A:O5'	23:2L:11:A:H8	1.89	0.56
26:14:871:U:OP1	41:45:5:ARG:HG2	2.05	0.56
45:85:92:ARG:HG2	46:95:11:GLN:OE1	2.06	0.56
49:C5:52:SER:H	49:C5:56:PRO:HA	1.71	0.56
53:G5:65:ASN:HB3	53:G5:69:ARG:HH21	1.69	0.56
3:2E:47:LEU:HB2	3:2E:52:LEU:HD13	1.88	0.56
13:4I:93:ARG:NH1	26:1H:888:C:OP1	2.38	0.56
18:9I:22:VAL:HB	18:9I:56:THR:HA	1.87	0.56
26:1H:1671:U:OP2	63:1H:3856:HOH:O	2.17	0.56
30:21:51:PHE:HE2	30:21:52:LEU:HD22	1.69	0.56
32:41:75:LYS:HD2	32:41:77:ILE:HD13	1.87	0.56
1:1G:17:U:H2'	1:1G:18:C:C6	2.40	0.56
1:1G:197:A:H8	1:1G:198:G:C8	2.24	0.56
1:1G:429:U:H3'	4:32:9:CYS:SG	2.46	0.56
1:1G:1324:A:H4'	1:1G:1362:C:H4'	1.88	0.56
5:42:143:ARG:HG3	5:42:147:ASP:HB3	1.87	0.56
15:6A:39:LEU:HD12	15:6A:56:LEU:HB2	1.88	0.56
26:14:548:A:C6	26:14:549:G:H1'	2.40	0.56
26:14:2238:G:H2'	26:14:2238:G:N3	2.21	0.56
32:49:106:LEU:HA	32:49:110:ALA:HB3	1.87	0.56
48:B5:15:GLU:OE1	48:B5:15:GLU:N	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1064:G:H4'	1:13:1065:U:OP1	2.06	0.56
12:3I:53:ARG:HG3	12:3I:53:ARG:HH11	1.71	0.56
16:7I:22:THR:HA	16:7I:33:ILE:HG13	1.88	0.56
22:1K:61:U:H5'	22:1K:62:C:C5	2.40	0.56
23:2K:73:A:C6	23:2K:74:A:C6	2.94	0.56
24:3K:15:G:O2'	24:3K:16:C:H5'	2.05	0.56
26:1H:1026:U:H1'	26:1H:1027:A:O5'	2.06	0.56
35:61:38:LEU:HD12	35:61:38:LEU:H	1.70	0.56
36:38:16:ASN:H	36:38:19:ARG:HB3	1.71	0.56
37:48:74:ALA:HA	37:48:127:ILE:HG23	1.87	0.56
39:68:64:ARG:NH1	39:68:81:ASP:OD1	2.38	0.56
39:68:107:ARG:HG3	39:68:112:MET:HE1	1.86	0.56
43:A8:11:LYS:HD2	43:A8:15:ARG:NH2	2.21	0.56
43:A8:106:ARG:CZ	43:A8:107:GLU:HB2	2.36	0.56
45:C8:34:LYS:NZ	45:C8:37:GLU:OE1	2.30	0.56
51:I8:72:ARG:HB2	51:I8:75:LEU:HB2	1.88	0.56
1:1G:1305:G:O2'	1:1G:1306:A:H8	1.89	0.56
10:1A:53:PRO:HA	14:5A:42:ILE:HG21	1.86	0.56
21:1B:2:GLY:C	21:1B:4:GLY:H	2.13	0.56
24:3L:6:U:H3	24:3L:68:G:H1	1.52	0.56
26:14:960:A:H61	41:45:82:ARG:HH21	1.52	0.56
26:14:1430:C:H2'	26:14:1431:U:C6	2.41	0.56
26:14:1963:U:O2	26:14:1963:U:H2'	2.06	0.56
26:14:2469:A:H3'	26:14:2470:G:H8	1.71	0.56
31:39:131:GLY:H	31:39:142:TRP:CD1	2.24	0.56
38:15:37:LYS:HE2	45:85:63:VAL:HG21	1.88	0.56
39:25:88:ASN:HB3	39:25:94:ARG:HD2	1.88	0.56
1:13:262:A:H2'	1:13:263:A:C8	2.40	0.56
4:3E:103:ASN:O	4:3E:107:ARG:HG2	2.06	0.56
26:1H:2038:G:H2'	26:1H:2039:C:H6	1.71	0.56
29:11:145:VAL:HG12	29:11:146:GLU:O	2.06	0.56
45:C8:19:LYS:HG3	45:C8:22:LYS:HE2	1.88	0.56
52:J8:41:ARG:HH11	52:J8:41:ARG:HG3	1.70	0.56
1:1G:1238:A:N3	1:1G:1241:G:O2'	2.29	0.56
26:14:270(H):C:H2'	26:14:270(I):G:H8	1.69	0.56
26:14:819:A:C4	26:14:1189:A:C2	2.94	0.56
26:14:1819:A:H4'	26:14:1820:U:O5'	2.06	0.56
26:14:2099:U:H3	26:14:2190:G:H1	1.52	0.56
26:14:2675:A:H4'	39:25:29:ASN:HD21	1.69	0.56
33:59:137:ASP:HB2	33:59:140:LYS:HE2	1.88	0.56
35:69:59:ALA:HA	35:69:62:LYS:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:15:95:PRO:O	38:15:98:VAL:HG12	2.06	0.56
50:D5:176:PRO:HG2	50:D5:178:GLU:HG2	1.88	0.56
51:E5:36:ILE:O	51:E5:36:ILE:HD13	2.06	0.56
1:13:625:G:H4'	16:7I:16:HIS:CG	2.40	0.55
1:13:872:A:C2	1:13:874:G:C6	2.94	0.55
4:3E:29:PRO:HA	4:3E:34:GLU:HG3	1.87	0.55
7:6E:149:ARG:HG2	11:2I:59:TYR:CZ	2.40	0.55
25:4K:9:G:H2'	25:4K:10:G:C8	2.41	0.55
26:1H:176:G:O2'	26:1H:177:G:H5'	2.06	0.55
26:1H:1968:G:H5'	63:1H:3879:HOH:O	2.05	0.55
34:18:17:VAL:HG11	34:18:21:LYS:HE3	1.82	0.55
34:28:28:LYS:HZ2	34:28:29:GLU:HG3	1.71	0.55
41:88:79:LEU:O	41:88:80:GLU:HB2	2.06	0.55
1:1G:547:A:H5'	63:1G:1811:HOH:O	2.06	0.55
1:1G:1095:U:H2'	1:1G:1096:C:C6	2.41	0.55
1:1G:1158:C:N3	1:1G:1160:G:C8	2.75	0.55
2:12:19:HIS:CE1	2:12:204:ASN:HB3	2.40	0.55
7:62:73:MET:HB2	7:62:90:GLU:HA	1.88	0.55
17:8A:67:LYS:HA	17:8A:70:ARG:HH12	1.70	0.55
23:2L:24:C:H2'	23:2L:25:U:H6	1.70	0.55
26:14:99:U:H4'	26:14:102:G:H1'	1.87	0.55
26:14:226:G:H21	26:14:228:A:H62	1.53	0.55
26:14:852:G:H2'	26:14:853:G:C8	2.40	0.55
26:14:1262:A:N3	56:J5:10:LYS:HE3	2.20	0.55
26:14:2269:A:OP2	63:14:3788:HOH:O	2.18	0.55
26:14:2666:C:O2	33:59:152:ARG:NH1	2.38	0.55
27:1J:14:U:H5'	27:1J:71:C:H1'	1.87	0.55
30:29:68:ALA:C	30:29:70:ALA:H	2.14	0.55
44:75:18:ASP:OD1	44:75:18:ASP:N	2.38	0.55
44:75:22:PHE:HE2	44:75:49:VAL:HG11	1.69	0.55
50:D5:25:PRO:O	50:D5:85:HIS:HA	2.06	0.55
1:13:576:G:OP1	63:13:1958:HOH:O	2.18	0.55
2:1E:154:LEU:H	2:1E:154:LEU:HD12	1.72	0.55
26:1H:265:A:C8	26:1H:266:G:H1'	2.41	0.55
26:1H:1063:G:H22	26:1H:1076:C:H1'	1.71	0.55
26:1H:1081:U:C2	26:1H:1082:U:H1'	2.42	0.55
26:1H:1101:U:H2'	26:1H:1102:C:C6	2.42	0.55
30:21:174:ASP:OD1	30:21:175:VAL:N	2.39	0.55
1:1G:713:G:H2'	1:1G:714:G:C8	2.42	0.55
1:1G:1199:U:H4'	10:1A:54:PHE:CE1	2.41	0.55
13:4A:86:CYS:SG	13:4A:88:ARG:HG3	2.46	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:J5:20:ARG:HG2	56:J5:23:HIS:CD2	2.41	0.55
1:13:244:U:H4'	1:13:245:C:O5'	2.05	0.55
1:13:881:G:OP2	12:3I:12:ARG:NH2	2.39	0.55
1:13:1263:C:H2'	1:13:1264:C:H6	1.71	0.55
5:4E:122:GLU:HG2	5:4E:131:ILE:HD12	1.88	0.55
9:8E:33:PHE:CE2	9:8E:47:LEU:HD21	2.40	0.55
26:1H:527:C:H4'	26:1H:528:A:H5'	1.88	0.55
26:1H:1543:A:H3'	26:1H:1543:A:OP2	2.07	0.55
26:1H:1632:A:N7	63:1H:3779:HOH:O	2.33	0.55
26:1H:1826:G:H4'	29:11:242:ARG:HE	1.71	0.55
26:1H:2062:A:H5'	63:1H:4295:HOH:O	2.05	0.55
26:1H:2785:C:H2'	26:1H:2786:U:O4'	2.05	0.55
30:21:105:THR:HG21	30:21:164:ARG:CZ	2.37	0.55
31:31:178:PRO:HB3	31:31:198:ALA:CB	2.35	0.55
42:98:2:ARG:O	42:98:5:LYS:HG2	2.07	0.55
43:A8:26:LEU:HD12	43:A8:39:ILE:HD11	1.88	0.55
47:E8:35:ILE:HG23	56:N8:28:PRO:HD2	1.87	0.55
1:1G:474:G:OP2	16:7A:75:ARG:HD3	2.06	0.55
1:1G:985:C:H42	1:1G:1220:G:H1	1.55	0.55
6:52:11:ASN:HB3	6:52:14:LEU:HD13	1.88	0.55
12:3A:47:LYS:HB3	12:3A:48:PRO:HD3	1.87	0.55
26:14:1337:G:H2'	26:14:1338:G:H8	1.70	0.55
30:29:36:ARG:NH2	30:29:88:GLY:HA2	2.21	0.55
40:35:15:ARG:HB2	40:35:15:ARG:CZ	2.35	0.55
41:45:26:TYR:HD1	41:45:28:ALA:HB2	1.72	0.55
1:13:1117:G:H5"	9:8E:104:ARG:NH1	2.21	0.55
2:1E:22:LYS:HA	2:1E:24:TRP:CD1	2.40	0.55
5:4E:136:MET:HA	5:4E:139:LEU:HD12	1.88	0.55
12:3I:33:ARG:HG2	12:3I:60:LEU:CD1	2.36	0.55
22:1K:24:A:H2'	22:1K:25:G:C8	2.34	0.55
26:1H:248:G:H5'	26:1H:250:G:N7	2.21	0.55
26:1H:534:U:H5'	45:C8:42:ALA:HB1	1.89	0.55
28:71:22:ILE:O	28:71:26:ALA:HB2	2.06	0.55
28:71:44:HIS:CE1	28:71:214:VAL:HA	2.42	0.55
29:11:30:GLU:OE2	29:11:63:ARG:NE	2.31	0.55
32:41:38:VAL:HG22	32:41:93:THR:HA	1.87	0.55
37:48:11:GLN:H	37:48:55:VAL:HG21	1.71	0.55
42:98:9:LYS:HA	42:98:17:ARG:NE	2.20	0.55
45:C8:95:LEU:HD11	46:D8:11:GLN:O	2.05	0.55
50:H8:76:LEU:HA	50:H8:83:PRO:HA	1.87	0.55
1:1G:617:G:OP2	63:1G:1843:HOH:O	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:974:A:P	14:5A:41:ARG:HH12	2.29	0.55
1:1G:1134:G:H2'	1:1G:1135:U:O4'	2.07	0.55
2:12:154:LEU:O	2:12:155:LEU:HD22	2.06	0.55
10:1A:6:ILE:HG13	10:1A:72:VAL:O	2.06	0.55
10:1A:51:ARG:H	10:1A:60:ARG:HA	1.72	0.55
18:9A:22:VAL:C	18:9A:24:ALA:H	2.13	0.55
26:14:139:G:H1'	26:14:140:A:C2	2.41	0.55
26:14:1022:G:C6	26:14:1140:C:C4	2.95	0.55
26:14:1071:G:C4	26:14:1089:G:H2'	2.41	0.55
26:14:1754:C:H2'	26:14:1755:A:C8	2.41	0.55
27:1J:88:C:H5'	27:1J:89:G:C6	2.41	0.55
27:1J:93:C:H2'	27:1J:94:C:H6	1.72	0.55
30:29:36:ARG:HH12	30:29:88:GLY:HA2	1.71	0.55
41:45:26:TYR:CD1	41:45:28:ALA:HB2	2.41	0.55
1:13:1226:C:OP2	13:4I:103:THR:OG1	2.16	0.55
2:1E:60:ASP:O	2:1E:64:ARG:NE	2.40	0.55
5:4E:148:VAL:HA	5:4E:151:LEU:HD12	1.88	0.55
17:8I:67:LYS:HA	17:8I:70:ARG:HH12	1.71	0.55
18:9I:50:ILE:HD11	18:9I:70:ILE:HG21	1.88	0.55
26:1H:277:C:H3'	26:1H:278:A:O4'	2.07	0.55
26:1H:821:A:H5"	26:1H:822:U:H6	1.72	0.55
26:1H:1164:G:H2'	26:1H:1165:U:C6	2.41	0.55
26:1H:2028:U:O4	63:1H:3933:HOH:O	2.16	0.55
26:1H:2735:G:H2'	26:1H:2736:G:C8	2.42	0.55
33:51:98:LEU:HD12	33:51:125:VAL:HG23	1.88	0.55
35:61:81:VAL:HG23	35:61:143:SER:H	1.72	0.55
40:78:126:VAL:HG13	40:78:145:PRO:HG2	1.87	0.55
59:Q8:6:THR:HG23	59:Q8:64:TYR:HD2	1.70	0.55
1:1G:859:A:H2'	1:1G:860:A:H8	1.71	0.55
1:1G:1372:U:OP1	9:82:72:GLY:N	2.39	0.55
1:1G:1423:G:H2'	1:1G:1424:C:H6	1.72	0.55
2:12:231:GLU:HB3	2:12:232:PRO:HD3	1.89	0.55
22:1L:18:G:H4'	22:1L:61:U:N3	2.22	0.55
26:14:587:C:O2	40:35:33:ARG:NH1	2.40	0.55
27:1J:21:G:H2'	27:1J:22:U:O4'	2.06	0.55
32:49:75:LYS:NZ	32:49:77:ILE:HD11	2.22	0.55
35:69:110:ASP:H	35:69:130:TYR:HH	1.54	0.55
38:15:18:ALA:HA	38:15:21:LYS:HG3	1.88	0.55
40:35:101:VAL:HA	40:35:105:LEU:O	2.06	0.55
40:35:114:ILE:O	40:35:115:LEU:HD23	2.06	0.55
46:95:49:THR:HB	46:95:50:PRO:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:F5:85:LEU:HA	52:F5:87:PRO:HD2	1.87	0.55
1:13:89:U:H2'	1:13:90:C:O4'	2.07	0.55
4:3E:12:CYS:SG	4:3E:19:LEU:HB2	2.46	0.55
26:1H:2175:C:H1'	28:71:218:MET:HA	1.89	0.55
26:1H:2615:U:OP1	63:1H:3952:HOH:O	2.18	0.55
37:48:51:ALA:CB	37:48:76:TYR:HA	2.35	0.55
37:48:54:PRO:HD2	37:48:72:PRO:HA	1.88	0.55
34:28:17:VAL:HG13	34:28:19:GLU:H	1.72	0.55
1:1G:1378:C:H3'	1:1G:1379:G:H5"	1.89	0.55
2:12:204:ASN:HB2	2:12:210:SER:HB3	1.88	0.55
7:62:62:PHE:HA	7:62:124:LEU:CD2	2.35	0.55
24:3L:37:G:H21	25:4L:14:A:N6	2.05	0.55
26:14:800:A:H8	63:14:3760:HOH:O	1.89	0.55
26:14:1757:U:N3	26:14:1762:A:H2	2.04	0.55
26:14:2318:G:H5'	26:14:2319:G:OP2	2.06	0.55
26:14:2356:C:O3'	51:E5:20:ARG:HD2	2.07	0.55
29:19:30:GLU:HB2	29:19:35:LYS:HD3	1.88	0.55
35:69:14:ASP:OD1	35:69:15:VAL:N	2.38	0.55
42:55:69:ASP:N	42:55:69:ASP:OD1	2.40	0.55
1:13:826:C:H2'	1:13:827:U:O2	2.06	0.55
1:13:955:U:H1'	1:13:1227:A:N6	2.22	0.55
1:13:1374:A:O3'	7:6E:28:ASN:ND2	2.40	0.55
2:1E:22:LYS:H	2:1E:40:HIS:CD2	2.24	0.55
8:7E:19:VAL:HG13	8:7E:21:LYS:HG2	1.88	0.55
26:1H:141:A:C8	26:1H:1408:C:H1'	2.41	0.55
26:1H:197:A:N6	26:1H:2430:A:H2'	2.21	0.55
26:1H:617:G:OP2	31:31:43:LYS:NZ	2.32	0.55
26:1H:881:G:C5	26:1H:882:G:H1'	2.41	0.55
26:1H:1111:A:N3	26:1H:1112:G:H1'	2.21	0.55
26:1H:1210:A:H5"	26:1H:1212:G:O4'	2.06	0.55
26:1H:1831:G:H2'	26:1H:1832:C:C6	2.41	0.55
26:1H:1945:G:H2'	26:1H:1946:U:H6	1.71	0.55
26:1H:2108:C:H2'	26:1H:2109:U:O4'	2.06	0.55
42:98:48:VAL:HA	42:98:51:LEU:HB2	1.89	0.55
47:E8:29:LEU:HD12	47:E8:29:LEU:O	2.06	0.55
53:K8:59:ARG:O	53:K8:62:THR:HG23	2.06	0.55
1:1G:57:G:H2'	1:1G:58:C:C6	2.42	0.55
1:1G:176:C:H2'	1:1G:177:C:H6	1.72	0.55
3:22:18:TRP:CD1	14:5A:55:GLY:H	2.24	0.55
6:52:82:ARG:HB2	6:52:85:VAL:HG23	1.87	0.55
10:1A:54:PHE:CD2	10:1A:55:LYS:HG3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4A:14:ARG:NH2	13:4A:16:ASP:OD2	2.24	0.55
26:14:1252:G:O4'	45:85:33:ARG:HD3	2.06	0.55
26:14:1810:A:H2'	26:14:1811:G:O4'	2.06	0.55
26:14:2138:C:H42	26:14:2153:G:H1	1.54	0.55
27:1J:28:C:H2'	27:1J:29:A:H8	1.71	0.55
35:69:98:ALA:HA	35:69:109:ILE:HD11	1.89	0.55
1:13:67:C:H2'	1:13:68:G:H8	1.70	0.55
1:13:136:C:H2'	1:13:137:C:H5"	1.88	0.55
1:13:1174:G:H2'	1:13:1175:G:H8	1.71	0.55
26:1H:548:A:N3	46:D8:21:ARG:NH2	2.55	0.55
26:1H:719:C:H2'	26:1H:720:C:H6	1.72	0.55
26:1H:724:U:H2'	26:1H:725:G:O4'	2.07	0.55
26:1H:1800:C:OP1	29:11:266:SER:OG	2.22	0.55
45:C8:11:ARG:O	45:C8:15:LYS:HG3	2.07	0.55
49:G8:76:CYS:HB2	49:G8:82:PRO:HG3	1.88	0.55
53:K8:58:ALA:O	53:K8:62:THR:HG22	2.07	0.55
1:1G:186(D):C:H2'	1:1G:186(E):C:C6	2.41	0.55
1:1G:411:A:C5	1:1G:413:G:H1'	2.41	0.55
1:1G:511:C:H4'	4:32:43:HIS:CD2	2.42	0.55
1:1G:973:G:OP1	10:1A:57:LYS:NZ	2.32	0.55
21:1B:8:THR:HG21	21:1B:10:ARG:NH2	2.12	0.55
26:14:93:C:H5'	26:14:94:G:OP2	2.06	0.55
26:14:1952:A:C5	39:25:22:ILE:HD11	2.42	0.55
26:14:2588:G:OP2	63:14:3877:HOH:O	2.18	0.55
40:35:97:PRO:O	40:35:98:GLU:HG3	2.07	0.55
1:13:222:U:H2'	1:13:223:U:C6	2.42	0.55
1:13:390:C:O3'	16:7I:28:ARG:NH2	2.37	0.55
2:1E:67:THR:HG21	2:1E:155:LEU:HD13	1.87	0.55
3:2E:130:VAL:O	3:2E:134:ILE:HG12	2.06	0.55
26:1H:1568:G:H5"	29:11:61:LEU:HD22	1.88	0.55
26:1H:2164:C:H5	26:1H:2165:G:C6	2.25	0.55
26:1H:2170:A:OP2	26:1H:2170:A:H3'	2.07	0.55
26:1H:2683:C:OP1	44:B8:53:ARG:NH2	2.35	0.55
29:11:24:ILE:HG22	29:11:27:THR:HG22	1.89	0.55
30:21:119:ARG:HB3	30:21:120:TRP:CD1	2.41	0.55
33:51:86:GLU:OE2	33:51:165:ALA:HB2	2.07	0.55
35:61:110:ASP:OD1	35:61:110:ASP:N	2.30	0.55
39:68:112:MET:HA	39:68:115:VAL:HG22	1.89	0.55
41:88:2:LEU:H	41:88:2:LEU:HD12	1.71	0.55
51:I8:70:GLN:NE2	51:I8:72:ARG:HG2	2.22	0.55
1:1G:664:G:N2	1:1G:741:G:H1	1.96	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:51:LEU:HD23	2:12:201:ILE:HD12	1.87	0.55
3:22:18:TRP:H	3:22:18:TRP:HE3	1.55	0.55
8:72:119:LEU:HD12	8:72:124:ALA:HA	1.87	0.55
16:7A:9:PHE:HD2	16:7A:18:ARG:HG3	1.72	0.55
20:BA:74:LYS:HE2	20:BA:75:ASN:OD1	2.07	0.55
22:1L:54:G:H1	22:1L:62:C:H42	1.54	0.55
26:14:250:G:OP2	59:M5:13:ARG:NH2	2.40	0.55
26:14:796:C:H2'	26:14:797:C:C6	2.42	0.55
26:14:1857:G:O6	63:14:3876:HOH:O	2.18	0.55
31:39:101:LEU:O	31:39:106:ARG:NH1	2.39	0.55
31:39:160:ASN:HB3	31:39:163:VAL:HB	1.88	0.55
46:95:21:ARG:HH21	46:95:91:TYR:CB	2.20	0.55
59:M5:23:VAL:HA	59:M5:48:PHE:O	2.07	0.55
1:13:864:A:H2'	1:13:865:A:C8	2.42	0.55
1:13:1226:C:H4'	1:13:1227:A:OP1	2.06	0.55
21:1F:2:GLY:O	21:1F:4:GLY:N	2.40	0.55
26:1H:270(P):C:H2'	26:1H:270(Q):C:C6	2.41	0.55
26:1H:325:G:O2'	26:1H:326:G:H5'	2.07	0.55
26:1H:759:G:OP1	63:1H:3948:HOH:O	2.18	0.55
31:31:179:GLU:OE1	31:31:179:GLU:N	2.35	0.55
32:41:66:GLN:HA	55:M8:6:HIS:CE1	2.42	0.55
33:51:10:PRO:O	33:51:11:VAL:HG13	2.07	0.55
37:48:42:ASN:O	37:48:46:ALA:HB2	2.07	0.55
48:F8:49:VAL:HG11	48:F8:83:VAL:CG1	2.37	0.55
57:O8:15:GLU:HG2	57:O8:16:CYS:H	1.71	0.55
59:Q8:33:ASN:OD1	59:Q8:36:LYS:HD2	2.07	0.55
1:1G:825:G:H1	1:1G:875:C:H42	1.54	0.55
1:1G:1224:G:C2	1:1G:1322:C:H4'	2.42	0.55
3:22:141:VAL:HG11	3:22:202:ILE:HD13	1.88	0.55
7:62:116:ALA:HA	7:62:119:ARG:HE	1.72	0.55
9:82:114:TYR:H	9:82:114:TYR:HD1	1.54	0.55
26:14:270(I):G:H2'	26:14:270(J):G:C8	2.40	0.55
26:14:616:A:C5	31:39:180:GLY:HA3	2.41	0.55
26:14:852:G:H2'	26:14:853:G:H8	1.70	0.55
26:14:879:G:N1	26:14:898:C:N3	2.55	0.55
26:14:1040:C:H2'	26:14:1041:C:C6	2.41	0.55
26:14:1314:C:OP1	63:14:3875:HOH:O	2.18	0.55
26:14:1324:G:C8	63:14:3926:HOH:O	2.60	0.55
26:14:2557:G:H2'	26:14:2558:C:C6	2.42	0.55
26:14:2820:A:C5	42:55:4:LEU:HD11	2.42	0.55
27:1J:16:G:H2'	27:1J:17:C:H6	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:69:123:LEU:HA	35:69:142:VAL:HG23	1.88	0.55
45:85:112:ARG:NE	46:95:47:VAL:HG21	2.22	0.55
51:E5:21:LEU:HD21	51:E5:41:ARG:NH1	2.22	0.55
2:1E:105:PHE:O	2:1E:109:SER:HB2	2.07	0.54
9:8E:28:VAL:HA	9:8E:63:ILE:O	2.07	0.54
12:3I:62:SER:HB2	12:3I:64:TYR:CD1	2.35	0.54
18:9I:54:ARG:HG3	18:9I:55:ARG:HG2	1.88	0.54
24:3K:15:G:H22	24:3K:60:A:C5'	2.20	0.54
24:3K:53:G:H2'	24:3K:54:G:C8	2.41	0.54
26:1H:65:C:H2'	26:1H:66:C:C6	2.40	0.54
26:1H:602:G:HO2'	26:1H:604:G:HO2'	1.55	0.54
26:1H:1328:G:H2'	26:1H:1330:C:C5	2.42	0.54
28:71:64:LEU:HD13	28:71:175:VAL:HA	1.89	0.54
31:31:7:TYR:O	31:31:21:ALA:HA	2.07	0.54
36:38:17:LEU:HA	36:38:22:GLY:HA3	1.90	0.54
41:88:106:VAL:HG21	41:88:114:ALA:HB1	1.87	0.54
50:H8:19:ARG:HH11	50:H8:84:GLU:HB2	1.73	0.54
1:1G:542:G:OP1	4:32:10:ARG:NH2	2.37	0.54
1:1G:707:C:H2'	1:1G:708:C:H6	1.72	0.54
1:1G:864:A:OP2	63:1G:1844:HOH:O	2.18	0.54
1:1G:1321:C:H41	1:1G:1322:C:N4	2.04	0.54
1:1G:1331:G:OP1	1:1G:1331:G:H4'	2.06	0.54
7:62:26:PHE:CD2	7:62:30:ILE:HD11	2.42	0.54
26:14:273(C):C:N4	26:14:363(C):G:H1	2.04	0.54
26:14:2298:A:H1'	26:14:2321:G:N2	2.22	0.54
29:19:146:GLU:HB2	29:19:189:CYS:HB3	1.89	0.54
43:65:26:LEU:O	43:65:88:ASP:HB2	2.07	0.54
48:B5:35:THR:HG23	48:B5:38:GLU:OE2	2.06	0.54
3:2E:11:ARG:O	3:2E:13:GLY:N	2.39	0.54
5:4E:51:VAL:O	5:4E:55:VAL:HG23	2.07	0.54
9:8E:9:ARG:HB3	9:8E:14:VAL:HG13	1.89	0.54
20:BI:49:ALA:HB2	20:BI:92:LEU:HD22	1.89	0.54
26:1H:1437:C:H2'	26:1H:1438:U:H6	1.72	0.54
26:1H:2188:C:N4	26:1H:2189:U:O2	2.40	0.54
26:1H:2688:U:H5	26:1H:2720:U:OP2	1.91	0.54
40:78:82:GLY:HA2	40:78:113:LYS:O	2.08	0.54
41:88:78:PRO:O	41:88:79:LEU:HB3	2.06	0.54
1:1G:625:G:H4'	16:7A:16:HIS:CD2	2.42	0.54
1:1G:1352:C:OP1	21:1B:3:LYS:NZ	2.37	0.54
2:12:10:LEU:HD13	2:12:13:ALA:HB2	1.89	0.54
7:62:45:ASP:OD2	7:62:115:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:392:C:H5”	26:14:409:C:H5”	1.89	0.54
32:49:63:ILE:HG22	32:49:143:GLU:HB2	1.89	0.54
42:55:8:ARG:NH1	42:55:39:PRO:HB3	2.21	0.54
50:D5:16:SER:O	50:D5:20:ARG:HG3	2.07	0.54
50:D5:97:GLU:HB3	50:D5:125:LEU:HD11	1.89	0.54
1:13:343:U:N3	1:13:347:G:C6	2.75	0.54
1:13:814:A:N7	1:13:816:A:C4	2.76	0.54
1:13:1007:C:N3	1:13:1022:G:N1	2.52	0.54
1:13:1305:G:H8	1:13:1305:G:OP2	1.89	0.54
4:3E:88:VAL:O	4:3E:90:GLY:N	2.40	0.54
5:4E:71:LEU:HD22	5:4E:114:GLY:HA3	1.89	0.54
11:2I:24:SER:C	11:2I:26:ASN:H	2.14	0.54
11:2I:73:MET:SD	11:2I:103:LEU:HB3	2.47	0.54
22:1K:14:A:N7	22:1K:23:G:N1	2.56	0.54
22:1K:31:G:H1	22:1K:41:C:H42	1.56	0.54
30:21:87:GLU:OE1	30:21:87:GLU:N	2.33	0.54
36:38:23:SER:HB3	36:38:68:LEU:HB2	1.88	0.54
37:48:83:GLY:HA2	37:48:99:ILE:HG12	1.89	0.54
43:A8:10:ARG:O	43:A8:14:VAL:HG13	2.07	0.54
1:1G:757:U:H2’	1:1G:758:G:O4’	2.07	0.54
8:72:25:ASP:HB3	8:72:58:TYR:HD2	1.72	0.54
26:14:30:G:H2’	26:14:31:C:C6	2.42	0.54
26:14:154:G:O6	26:14:172:C:N4	2.41	0.54
26:14:606:U:H4’	26:14:658:C:H4’	1.89	0.54
26:14:1094:U:H4’	26:14:1097:U:H5	1.72	0.54
26:14:1104:C:H2’	26:14:1105:U:C6	2.42	0.54
26:14:1181:C:H2’	26:14:1182:A:C8	2.42	0.54
28:79:29:VAL:HG13	28:79:185:LEU:HD13	1.88	0.54
38:15:111:PRO:HA	38:15:114:ARG:NH1	2.22	0.54
1:13:4:U:O4	8:7E:105:ARG:HG3	2.08	0.54
1:13:1194:U:H2’	1:13:1195:C:C6	2.43	0.54
1:13:1374:A:O2’	7:6E:28:ASN:HB3	2.07	0.54
2:1E:17:PHE:HB3	2:1E:44:LEU:HG	1.88	0.54
3:2E:18:TRP:HE3	3:2E:18:TRP:H	1.48	0.54
10:1I:34:VAL:HG13	10:1I:74:ILE:HG23	1.87	0.54
26:1H:192:C:P	63:1H:4025:HOH:O	2.64	0.54
26:1H:638:G:H2’	26:1H:639:U:C6	2.42	0.54
26:1H:1568:G:OP1	29:11:63:ARG:NH1	2.38	0.54
29:11:30:GLU:HG3	29:11:63:ARG:CZ	2.37	0.54
30:21:9:VAL:HB	30:21:25:VAL:HG13	1.89	0.54
30:21:111:ARG:HA	42:98:1:MET:HE3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:120:TRP:CD2	30:21:155:LYS:HG2	2.42	0.54
31:31:136:THR:HG22	31:31:166:ALA:O	2.08	0.54
33:51:83:TYR:HB3	33:51:135:GLY:H	1.72	0.54
39:68:68:GLU:CD	39:68:68:GLU:H	2.16	0.54
1:1G:750:G:N2	15:6A:23:GLY:O	2.35	0.54
1:1G:1141:C:H2'	1:1G:1142:G:C8	2.41	0.54
2:12:22:LYS:HE3	2:12:24:TRP:NE1	2.22	0.54
3:22:125:GLU:HG3	3:22:190:ARG:O	2.08	0.54
4:32:13:ARG:C	4:32:15:GLU:H	2.16	0.54
5:42:6:PHE:HB2	5:42:34:VAL:HG22	1.90	0.54
26:14:1075:C:H2'	26:14:1076:C:C6	2.43	0.54
26:14:2689:U:H5"	26:14:2713:A:H2	1.73	0.54
49:C5:48:ALA:HB3	49:C5:59:GLY:CA	2.35	0.54
49:C5:90:LEU:O	49:C5:92:ASN:N	2.36	0.54
50:D5:1:MET:HE2	50:D5:1:MET:HA	1.88	0.54
50:D5:53:ILE:HG22	50:D5:71:VAL:O	2.07	0.54
1:13:1356:G:H2'	1:13:1357:A:C8	2.42	0.54
3:2E:180:ALA:HB1	3:2E:182:ILE:HG13	1.90	0.54
12:3I:93:LEU:O	12:3I:96:VAL:HG12	2.08	0.54
15:6I:65:ARG:O	15:6I:68:ARG:HB3	2.07	0.54
16:7I:74:LEU:HD22	16:7I:79:VAL:HG21	1.88	0.54
18:9I:59:SER:H	18:9I:62:GLU:HB2	1.71	0.54
26:1H:942:G:OP2	40:78:39:LYS:HE2	2.06	0.54
26:1H:1342:A:OP2	63:1H:3953:HOH:O	2.19	0.54
26:1H:2321:G:H5"	26:1H:2322:A:OP2	2.08	0.54
36:38:39:ALA:HB3	36:38:96:PHE:CZ	2.42	0.54
36:38:141:VAL:O	36:38:142:LEU:HG	2.07	0.54
38:58:96:GLU:O	38:58:98:VAL:N	2.40	0.54
1:1G:276:G:O3'	17:8A:68:ARG:NH1	2.40	0.54
1:1G:910:C:OP2	12:3A:21:LYS:NZ	2.19	0.54
1:1G:1442:G:O2'	1:1G:1443:G:OP1	2.17	0.54
2:12:19:HIS:HE1	2:12:207:ALA:HB2	1.73	0.54
3:22:47:LEU:HD11	3:22:50:ALA:HB3	1.89	0.54
4:32:11:LEU:O	4:32:15:GLU:HB2	2.08	0.54
20:BA:89:ARG:HH11	20:BA:104:LEU:HB3	1.73	0.54
26:14:380:U:H2'	26:14:381:G:C8	2.43	0.54
26:14:746:A:N7	63:14:4014:HOH:O	2.33	0.54
26:14:2264:C:N4	51:E5:15:ASP:OD2	2.30	0.54
26:14:2689:U:H5"	26:14:2713:A:C2	2.43	0.54
27:1J:13:A:H2'	27:1J:70:C:O2'	2.07	0.54
29:19:182:LEU:H	29:19:272:ALA:HB3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:79:GLY:HA2	31:39:86:GLY:HA2	1.89	0.54
31:39:185:ASP:CG	31:39:188:ARG:HH21	2.14	0.54
32:49:71:THR:N	32:49:89:GLY:O	2.37	0.54
32:49:97:ASP:O	32:49:101:ILE:HG23	2.08	0.54
32:49:103:LEU:HD22	32:49:178:PHE:HZ	1.72	0.54
35:69:38:LEU:HD12	35:69:38:LEU:H	1.73	0.54
44:75:30:VAL:HG21	44:75:76:PHE:CZ	2.43	0.54
1:13:437:U:H5'	4:3E:155:LEU:HD21	1.90	0.54
1:13:1228:C:H2'	1:13:1229:A:C8	2.37	0.54
1:13:1308:U:OP1	13:4I:98:VAL:HG22	2.07	0.54
3:2E:40:ARG:O	3:2E:44:GLU:HG2	2.07	0.54
8:7E:4:ASP:OD2	8:7E:85:ARG:NH1	2.41	0.54
11:2I:84:VAL:HG21	11:2I:91:ARG:HD3	1.90	0.54
13:4I:17:VAL:O	13:4I:20:THR:HG22	2.07	0.54
18:9I:25:THR:HB	18:9I:42:ARG:NH2	2.23	0.54
26:1H:1026:U:O2'	26:1H:1027:A:H5"	2.07	0.54
26:1H:1252:G:N7	45:C8:36:ARG:NH1	2.54	0.54
26:1H:1359:A:C2	26:1H:1372:U:O4	2.60	0.54
26:1H:2306:C:H3'	26:1H:2307:G:H5'	1.90	0.54
26:1H:2531:A:H5'	33:51:157:TYR:CZ	2.42	0.54
30:21:201:THR:HG22	30:21:202:LYS:N	2.22	0.54
36:38:20:ALA:HB1	36:38:86:PRO:HA	1.90	0.54
37:48:84:LEU:HB2	37:48:97:GLY:HA3	1.90	0.54
54:L8:40:THR:HG23	54:L8:43:ILE:HG13	1.90	0.54
57:O8:11:LEU:HG	57:O8:51:GLU:HG3	1.89	0.54
1:1G:629:G:H2'	1:1G:630:G:H5'	1.89	0.54
12:3A:41:ARG:HD2	12:3A:42:THR:H	1.72	0.54
15:6A:81:LEU:O	15:6A:85:LEU:HB2	2.06	0.54
26:14:118:A:N3	26:14:178:G:H1'	2.23	0.54
26:14:244:A:C2	26:14:255:A:C4	2.96	0.54
26:14:1058:U:H2'	26:14:1059:G:C8	2.42	0.54
26:14:1217:C:OP1	45:85:15:LYS:NZ	2.30	0.54
26:14:2378:A:H4'	43:65:23:ARG:NH1	2.23	0.54
26:14:2859:G:O2'	26:14:2860:A:H5'	2.07	0.54
26:14:2869:G:H2'	26:14:2870:C:O4'	2.08	0.54
32:49:27:ASN:HB3	32:49:30:GLU:HG3	1.89	0.54
32:49:173:LEU:HD13	32:49:178:PHE:CD2	2.43	0.54
40:35:63:PRO:O	59:M5:13:ARG:HG2	2.07	0.54
49:C5:18:GLY:O	49:C5:20:TYR:N	2.38	0.54
1:13:247:G:C2	1:13:248:C:C5	2.95	0.54
1:13:601:C:O2	1:13:637:G:N2	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1198:G:N7	63:13:1929:HOH:O	2.33	0.54
1:13:1454:G:H2'	1:13:1455:G:C8	2.43	0.54
3:2E:15:THR:HG23	3:2E:181:ASN:HA	1.89	0.54
3:2E:175:LEU:HD21	3:2E:201:TYR:CE1	2.42	0.54
13:4I:10:PRO:HB2	13:4I:18:ALA:HB1	1.90	0.54
26:1H:1292:U:H2'	26:1H:1293:C:C6	2.42	0.54
26:1H:2472:G:N2	26:1H:2476:A:H62	2.06	0.54
29:11:85:ASP:HB2	29:11:92:ILE:HG12	1.89	0.54
38:58:33:LEU:HD23	38:58:38:HIS:CD2	2.43	0.54
43:A8:84:GLN:OE1	43:A8:110:LEU:HD11	2.08	0.54
1:1G:437:U:OP1	4:32:155:LEU:HD11	2.08	0.54
1:1G:860:A:C2	1:1G:861:G:H1'	2.42	0.54
10:1A:83:GLU:O	10:1A:86:MET:HB2	2.08	0.54
22:1L:33:RSP:H6	22:1L:33:RSP:H5'	1.89	0.54
23:2L:76:C:H2'	23:2L:77:A:C8	2.43	0.54
24:3L:37:G:N2	25:4L:14:A:H62	2.04	0.54
24:3L:48:U:O2'	24:3L:49:C:O4'	2.21	0.54
26:14:1178:C:H2'	26:14:1179:C:C6	2.43	0.54
26:14:1516:U:H2'	26:14:1517:G:C8	2.42	0.54
27:1J:83:G:H5'	54:H5:52:HIS:CE1	2.42	0.54
1:13:346:G:H3'	1:13:346:G:N3	2.23	0.54
1:13:609:A:H2'	1:13:610:G:H5'	1.90	0.54
1:13:1006:C:O2	1:13:1023:G:N1	2.38	0.54
4:3E:98:GLU:HG3	4:3E:103:ASN:HD21	1.73	0.54
8:7E:21:LYS:O	8:7E:65:TYR:OH	2.25	0.54
9:8E:33:PHE:HE2	9:8E:47:LEU:HD11	1.71	0.54
12:3I:6:THR:HG23	12:3I:9:GLN:OE1	2.08	0.54
18:9I:34:TYR:HB3	18:9I:69:THR:HG23	1.89	0.54
20:BI:26:ASN:O	20:BI:30:LYS:HB2	2.08	0.54
26:1H:127:A:H5"	26:1H:128:C:C6	2.43	0.54
26:1H:631:A:H5"	26:1H:632:A:OP2	2.08	0.54
26:1H:919:G:H5'	27:16:81:G:H1'	1.90	0.54
26:1H:1590:U:H2'	26:1H:1591:G:C8	2.43	0.54
26:1H:2017:U:P	63:1H:3957:HOH:O	2.65	0.54
27:16:73:A:C4	27:16:104:A:C2	2.96	0.54
41:88:66:ILE:HA	41:88:104:PHE:HA	1.89	0.54
46:D8:44:LYS:C	46:D8:46:VAL:H	2.16	0.54
50:H8:9:TYR:CZ	50:H8:61:LEU:HD11	2.42	0.54
1:1G:8:A:C6	4:32:209:ARG:HB2	2.43	0.54
1:1G:235:C:H5'	17:8A:70:ARG:HG2	1.87	0.54
1:1G:707:C:H2'	1:1G:708:C:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1297:C:H4'	1:1G:1298:C:H5'	1.89	0.54
4:32:7:PRO:HB2	4:32:10:ARG:HD2	1.89	0.54
5:42:70:PRO:HB3	5:42:144:THR:HG22	1.90	0.54
10:1A:32:ALA:HB1	10:1A:75:ILE:HG13	1.90	0.54
11:2A:84:VAL:HG23	11:2A:110:ASP:HA	1.90	0.54
13:4A:52:GLU:HA	13:4A:55:ARG:HB2	1.89	0.54
26:14:330:A:H2	26:14:1210:A:O2'	1.90	0.54
26:14:2115:G:N2	26:14:2172:U:H3	2.04	0.54
26:14:2749:A:H5"	33:59:6:ARG:NH1	2.23	0.54
30:29:24:THR:HG23	30:29:184:VAL:HG23	1.90	0.54
31:39:185:ASP:OD1	31:39:188:ARG:NH2	2.34	0.54
33:59:85:LYS:O	33:59:132:ARG:HB2	2.08	0.54
1:13:464:G:N2	1:13:474:G:O6	2.41	0.54
1:13:1139:G:H4'	1:13:1140:C:H5'	1.90	0.54
1:13:1183:A:O2'	1:13:1184:G:OP1	2.24	0.54
20:BI:33:ILE:O	20:BI:37:SER:OG	2.26	0.54
23:2K:17:C:OP1	23:2K:61:U:O2'	2.26	0.54
23:2K:20:G:C2	23:2K:58:A:N3	2.76	0.54
26:1H:389:G:H22	40:78:72:PRO:HD3	1.72	0.54
26:1H:400:G:N7	63:1H:4092:HOH:O	2.34	0.54
26:1H:1538:G:H2'	26:1H:1539:G:H8	1.72	0.54
50:H8:28:MET:O	50:H8:34:ASN:HA	2.08	0.54
1:1G:115:G:H1'	1:1G:116:A:N7	2.23	0.54
1:1G:1178:G:P	9:82:93:ARG:HH21	2.31	0.54
24:3L:49:C:H2'	24:3L:60:A:O2'	2.07	0.54
26:14:244:A:H4'	40:35:74:GLU:HG3	1.90	0.54
33:59:144:VAL:O	33:59:148:ILE:HG12	2.08	0.54
47:A5:110:LYS:HG3	47:A5:111:HIS:CE1	2.43	0.54
1:13:322:C:O2'	20:BI:23:ARG:HD2	2.08	0.54
2:1E:59:GLU:HB2	2:1E:221:LEU:HD13	1.88	0.54
5:4E:11:ILE:HD11	5:4E:31:LEU:HD13	1.90	0.54
22:1K:18:G:H4'	22:1K:61:U:C2	2.43	0.54
24:3K:11:C:H2'	24:3K:12:U:H6	1.72	0.54
26:1H:301:G:C4	26:1H:302:C:C5	2.96	0.54
26:1H:1799:G:O2'	26:1H:1800:C:OP2	2.21	0.54
26:1H:2476:A:H3'	26:1H:2476:A:N3	2.22	0.54
29:11:31:LYS:HD3	29:11:94:LEU:HD11	1.90	0.54
30:21:111:ARG:HG3	30:21:160:TYR:CD2	2.42	0.54
42:98:38:VAL:HB	42:98:39:PRO:HD3	1.89	0.54
42:98:50:HIS:CE1	42:98:54:LEU:HD21	2.43	0.54
56:N8:16:ARG:HD2	56:N8:17:ASP:OD1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:827:U:H5"	1:1G:828:A:OP2	2.08	0.54
1:1G:1321:C:H4'	13:4A:87:TYR:CZ	2.43	0.54
2:12:10:LEU:HA	2:12:13:ALA:HB2	1.89	0.54
2:12:35:GLU:HG3	2:12:38:GLY:O	2.08	0.54
26:14:787:U:P	63:14:3996:HOH:O	2.65	0.54
26:14:2313:C:H4'	32:49:91:ARG:HG3	1.89	0.54
26:14:2751:G:H1	33:59:2:SER:HB3	1.73	0.54
26:14:2889:C:H2'	26:14:2891:G:O4'	2.07	0.54
30:29:26:ILE:HB	30:29:182:LEU:HB3	1.90	0.54
30:29:143:ASN:HD22	30:29:147:PRO:HD2	1.73	0.54
31:39:40:GLN:HE22	31:39:182:ASN:HB2	1.73	0.54
40:35:19:VAL:HG13	40:35:21:ARG:H	1.72	0.54
42:55:53:HIS:ND1	42:55:94:TYR:OH	2.36	0.54
45:85:92:ARG:CZ	46:95:11:GLN:H	2.21	0.54
1:13:1277:C:O2'	1:13:1279:A:H1'	2.08	0.53
16:7I:19:ILE:HB	16:7I:36:ILE:O	2.08	0.53
20:BI:94:ALA:O	20:BI:96:GLY:N	2.41	0.53
26:1H:1194:A:H8	26:1H:1194:A:OP2	1.90	0.53
26:1H:1386:C:H2'	26:1H:1387:C:C6	2.44	0.53
26:1H:1416:G:H1	26:1H:1582:C:H42	1.56	0.53
26:1H:1568:G:P	29:11:63:ARG:HH12	2.30	0.53
26:1H:2133:G:H2'	26:1H:2157:G:N2	2.23	0.53
30:21:9:VAL:HG13	44:B8:3:ARG:HG2	1.90	0.53
30:21:144:ARG:HH11	30:21:144:ARG:HG3	1.73	0.53
32:41:19:LEU:HD11	32:41:172:LEU:HA	1.89	0.53
37:48:101:TRP:O	37:48:105:LEU:HB3	2.08	0.53
38:58:131:GLN:N	38:58:134:ARG:HH12	2.06	0.53
44:B8:41:ARG:NH1	44:B8:43:GLN:HG3	2.23	0.53
53:K8:15:LYS:N	53:K8:67:LYS:HE2	2.22	0.53
1:1G:526:C:OP2	12:3A:91:LYS:HE2	2.09	0.53
1:1G:992:U:H3	1:1G:1044:A:N6	2.00	0.53
1:1G:1298:C:N4	7:62:114:ARG:HB3	2.23	0.53
7:62:101:LEU:O	7:62:105:VAL:HG23	2.07	0.53
11:2A:18:ARG:HD2	11:2A:83:ILE:HD11	1.89	0.53
20:BA:49:ALA:O	20:BA:100:ILE:HG21	2.08	0.53
26:14:2306:C:H3'	26:14:2307:G:H5"	1.90	0.53
26:14:2853:C:O2'	26:14:2854:G:H5'	2.08	0.53
26:14:2875:C:H4'	44:75:5:ALA:HB2	1.90	0.53
28:79:66:HIS:HB2	28:79:188:ASN:HD21	1.74	0.53
31:39:152:GLU:OE2	31:39:191:ARG:NH1	2.41	0.53
35:69:103:ARG:H	35:69:103:ARG:HD2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:75:34:VAL:HG21	44:75:43:GLN:HB3	1.91	0.53
52:F5:41:ARG:HD3	52:F5:43:TYR:HE1	1.73	0.53
1:13:536:C:H2'	1:13:537:G:C8	2.43	0.53
1:13:653:A:O4'	8:7E:56:LYS:HD3	2.09	0.53
1:13:749:C:H2'	1:13:750:G:H8	1.72	0.53
1:13:1511:G:H2'	1:13:1512:U:O4'	2.08	0.53
3:2E:7:PRO:O	3:2E:11:ARG:HG2	2.08	0.53
3:2E:131:ARG:NH1	5:4E:50:GLU:HG3	2.23	0.53
12:3I:71:PRO:O	12:3I:102:ARG:HD3	2.07	0.53
18:9I:66:LEU:O	18:9I:70:ILE:HG13	2.08	0.53
26:1H:86:C:H4'	26:1H:104:U:H1'	1.90	0.53
26:1H:323:G:C8	31:31:171:PRO:HG3	2.43	0.53
26:1H:1210:A:H4'	26:1H:1211:U:H5"	1.90	0.53
26:1H:1405:U:H2'	26:1H:1406:U:H6	1.70	0.53
26:1H:1420:U:O2'	26:1H:1421:G:OP1	2.26	0.53
26:1H:2315:G:OP1	32:41:36:LYS:NZ	2.40	0.53
35:61:75:LEU:HD21	35:61:105:HIS:HB3	1.90	0.53
41:88:39:PRO:HA	41:88:97:VAL:O	2.09	0.53
43:A8:88:ASP:OD1	43:A8:90:GLY:N	2.40	0.53
1:1G:1141:C:H2'	1:1G:1142:G:H8	1.72	0.53
4:32:39:PRO:O	4:32:44:GLY:HA3	2.08	0.53
8:72:29:SER:HB3	8:72:32:LYS:HG3	1.90	0.53
26:14:1260:G:H2'	26:14:1261:C:C6	2.43	0.53
26:14:2257:U:H2'	26:14:2258:C:C6	2.44	0.53
26:14:2399:G:H2'	26:14:2400:G:O4'	2.08	0.53
26:14:2534:A:O5'	26:14:2534:A:H8	1.91	0.53
26:14:2839:G:H21	42:55:92:GLY:HA2	1.72	0.53
31:39:67:GLN:HG3	31:39:67:GLN:O	2.07	0.53
44:75:30:VAL:HG22	44:75:45:PHE:HB3	1.90	0.53
1:13:199:G:H2'	1:13:200:G:C8	2.43	0.53
1:13:422:C:O2'	1:13:423:G:OP2	2.26	0.53
26:1H:1069:A:H4'	26:1H:1070:A:H5"	1.90	0.53
26:1H:1605:C:O3'	63:1H:3956:HOH:O	2.19	0.53
26:1H:1658:C:H2'	26:1H:1659:U:C6	2.43	0.53
26:1H:2171:A:O2'	26:1H:2172:U:O4'	2.19	0.53
33:51:56:SER:OG	33:51:57:ASP:N	2.40	0.53
1:1G:828:A:H2'	1:1G:829:G:O4'	2.08	0.53
1:1G:872:A:O2'	1:1G:873:A:H5"	2.08	0.53
1:1G:1062:U:H2'	1:1G:1063:C:C6	2.42	0.53
1:1G:1245:A:OP1	21:1B:9:ARG:NH2	2.41	0.53
1:1G:1478:C:H2'	1:1G:1479:C:C6	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1508:G:H2'	1:1G:1509:C:O4'	2.07	0.53
2:12:15:VAL:HB	2:12:16:HIS:CE1	2.42	0.53
3:22:98:ASN:HD22	3:22:98:ASN:N	2.06	0.53
4:32:61:LYS:HE2	4:32:206:PHE:CE2	2.42	0.53
24:3L:7:G:O2'	24:3L:50:G:OP2	2.26	0.53
26:14:184:C:H2'	26:14:185:U:H6	1.73	0.53
26:14:751:A:P	63:14:3809:HOH:O	2.66	0.53
26:14:1285:G:N2	26:14:1329:U:OP1	2.39	0.53
26:14:2228:G:OP2	29:19:263:ARG:NH2	2.41	0.53
26:14:2360:A:H2'	26:14:2361:A:O4'	2.08	0.53
26:14:2875:C:O2'	44:75:3:ARG:HG3	2.08	0.53
27:1J:3:C:H2'	27:1J:4:C:C6	2.43	0.53
30:29:55:ASN:O	30:29:57:LYS:N	2.40	0.53
32:49:27:ASN:OD1	32:49:28:VAL:N	2.41	0.53
38:15:133:GLN:O	38:15:134:ARG:HG3	2.08	0.53
39:25:13:ASN:ND2	39:25:97:ARG:H	2.02	0.53
43:65:36:TYR:CD1	43:65:36:TYR:N	2.76	0.53
46:95:51:VAL:HG12	46:95:52:VAL:H	1.73	0.53
50:D5:110:GLY:O	50:D5:111:VAL:C	2.52	0.53
1:13:524:G:H8	1:13:524:G:O5'	1.92	0.53
2:1E:95:GLN:OE1	2:1E:147:LYS:NZ	2.38	0.53
6:5E:23:LYS:HB2	6:5E:23:LYS:NZ	2.24	0.53
26:1H:184:C:H2'	26:1H:185:U:C6	2.42	0.53
26:1H:249:C:O5'	63:1H:3920:HOH:O	2.18	0.53
26:1H:1048:A:H5'	26:1H:1049:C:OP2	2.08	0.53
26:1H:2789:C:H2'	26:1H:2790:A:H5"	1.91	0.53
27:16:31:C:O2'	27:16:53:A:N1	2.38	0.53
38:58:32:THR:HG23	38:58:37:LYS:HB2	1.90	0.53
1:1G:416:G:H1	1:1G:427:U:H3	1.56	0.53
1:1G:1072:G:H2'	1:1G:1073:U:O4'	2.08	0.53
2:12:24:TRP:CD1	2:12:24:TRP:H	2.27	0.53
2:12:28:PHE:O	2:12:32:ILE:HG22	2.09	0.53
19:AA:12:ASP:OD1	19:AA:13:ASP:N	2.42	0.53
24:3L:1:G:H1	24:3L:73:C:H42	1.56	0.53
26:14:192:C:P	63:14:3817:HOH:O	2.66	0.53
26:14:397:G:H1'	26:14:2231:C:O2'	2.08	0.53
26:14:433:C:C4	26:14:434:U:O4	2.62	0.53
26:14:439:G:N7	63:14:4020:HOH:O	2.33	0.53
26:14:548:A:C5	26:14:549:G:H1'	2.44	0.53
26:14:586:A:N1	26:14:809:G:O2'	2.32	0.53
26:14:1053:C:N3	26:14:1106:G:N1	2.50	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2745:C:H1'	33:59:143:GLN:HG2	1.91	0.53
43:65:86:ALA:O	43:65:87:PHE:HB2	2.07	0.53
45:85:65:ILE:HD11	45:85:96:ALA:HB3	1.90	0.53
51:E5:19:LYS:C	51:E5:20:ARG:HG2	2.34	0.53
1:13:323:U:H5'	20:BI:23:ARG:HB2	1.91	0.53
1:13:486:U:H2'	1:13:487:A:H8	1.73	0.53
1:13:1025:U:H4'	1:13:1026:G:O5'	2.09	0.53
1:13:1322:C:H5"	13:4I:100:GLY:HA2	1.89	0.53
9:8E:33:PHE:CE2	9:8E:47:LEU:HD11	2.43	0.53
9:8E:99:LEU:HD12	9:8E:101:PHE:CE2	2.43	0.53
21:1F:9:ARG:O	21:1F:13:ILE:HG13	2.09	0.53
26:1H:270(N):G:H5'	26:1H:270(O):U:O4	2.09	0.53
26:1H:345:A:H5'	26:1H:345:A:H8	1.73	0.53
26:1H:997:G:OP1	45:C8:93:LYS:HD2	2.09	0.53
26:1H:1332:G:N2	26:1H:1610:A:C8	2.77	0.53
26:1H:1870:C:H2'	26:1H:1871:A:O4'	2.09	0.53
27:16:43:C:H5"	55:M8:1:MET:HG2	1.91	0.53
28:71:27:HIS:ND1	28:71:182:PRO:HB2	2.24	0.53
33:51:56:SER:HB3	33:51:61:HIS:ND1	2.24	0.53
33:51:67:LEU:HG	33:51:71:LEU:HD22	1.91	0.53
35:61:77:LEU:H	35:61:77:LEU:HD12	1.73	0.53
36:38:19:ARG:HH12	36:38:86:PRO:HD3	1.73	0.53
38:58:26:LEU:O	38:58:30:ILE:HG13	2.09	0.53
1:1G:748:C:H6	1:1G:748:C:O5'	1.92	0.53
1:1G:1126:U:H1'	1:1G:1127:G:OP2	2.09	0.53
3:22:11:ARG:O	3:22:14:ILE:N	2.31	0.53
4:32:15:GLU:OE1	4:32:59:ARG:NH2	2.33	0.53
20:BA:74:LYS:HD3	20:BA:74:LYS:N	2.22	0.53
23:2L:36:A:H2'	23:2L:37:U:C6	2.43	0.53
26:14:2458:G:O2'	26:14:2490:G:O6	2.23	0.53
26:14:2472:G:H1	26:14:2477:C:P	2.32	0.53
41:45:4:PRO:HD3	41:45:70:PRO:O	2.08	0.53
41:45:43:THR:O	41:45:46:GLN:N	2.42	0.53
43:65:74:ALA:O	43:65:78:LEU:HB2	2.08	0.53
53:G5:38:GLN:O	53:G5:43:GLN:HA	2.08	0.53
1:13:1060:C:HO2'	10:1I:56:HIS:HD1	1.44	0.53
1:13:1073:U:OP2	5:4E:57:LYS:NZ	2.38	0.53
5:4E:105:VAL:HG21	5:4E:128:PRO:HB3	1.91	0.53
6:5E:62:TRP:C	6:5E:63:TYR:HD1	2.16	0.53
10:1I:30:SER:C	10:1I:81:THR:HG23	2.34	0.53
13:4I:82:MET:O	13:4I:84:ILE:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BI:73:HIS:H	20:BI:76:ALA:HB3	1.74	0.53
20:BI:74:LYS:H	20:BI:74:LYS:CD	2.22	0.53
23:2K:17:C:H3'	23:2K:18:C:H6	1.73	0.53
26:1H:1517:G:H2'	26:1H:1518:C:H6	1.73	0.53
34:18:2:ALA:HB2	34:28:21:LYS:CG	2.34	0.53
34:28:17:VAL:HG22	34:28:18:LEU:H	1.73	0.53
44:B8:37:GLY:O	44:B8:38:ASN:ND2	2.41	0.53
52:J8:86:SER:N	52:J8:87:PRO:HD2	2.23	0.53
1:1G:516:U:O2'	1:1G:519:C:N3	2.38	0.53
1:1G:1140:C:H2'	1:1G:1141:C:H6	1.74	0.53
1:1G:1171:G:H2'	1:1G:1172:C:H6	1.74	0.53
2:12:187:LEU:HA	2:12:201:ILE:O	2.08	0.53
7:62:132:GLY:HA3	7:62:135:VAL:HG23	1.91	0.53
9:82:2:GLU:HG2	9:82:3:GLN:HG3	1.91	0.53
26:14:221:A:N6	26:14:265:A:H8	2.06	0.53
26:14:355:G:H3'	26:14:356:G:H5"	1.91	0.53
26:14:800:A:P	63:14:3760:HOH:O	2.62	0.53
26:14:877:U:O2'	26:14:878:A:OP1	2.24	0.53
26:14:984:A:H5'	63:14:3911:HOH:O	2.09	0.53
29:19:108:PRO:HG2	29:19:111:LEU:HB2	1.89	0.53
31:39:40:GLN:HG2	31:39:184:TYR:HB2	1.89	0.53
38:15:36:GLY:HA2	38:15:49:GLY:HA2	1.90	0.53
43:65:23:ARG:HD2	43:65:86:ALA:HB2	1.91	0.53
50:D5:53:ILE:HG22	50:D5:71:VAL:HG13	1.90	0.53
1:13:22:G:H2'	1:13:23:C:C6	2.44	0.53
1:13:857:C:OP2	63:13:1957:HOH:O	2.17	0.53
1:13:895:G:H2'	1:13:896:C:C6	2.44	0.53
2:1E:115:LEU:HD11	2:1E:146:GLN:HG3	1.91	0.53
4:3E:88:VAL:C	4:3E:90:GLY:H	2.15	0.53
5:4E:67:VAL:O	5:4E:69:VAL:HG23	2.09	0.53
5:4E:147:ASP:OD1	5:4E:147:ASP:N	2.41	0.53
9:8E:8:GLY:O	9:8E:15:ALA:N	2.38	0.53
10:1I:54:PHE:CE2	10:1I:55:LYS:HD2	2.43	0.53
19:AI:20:LEU:O	19:AI:24:ALA:HB3	2.09	0.53
20:BI:29:LYS:O	20:BI:33:ILE:HG12	2.09	0.53
26:1H:1728:G:H3'	26:1H:1729:A:H5"	1.89	0.53
29:11:38:LYS:H	29:11:38:LYS:NZ	2.06	0.53
40:78:5:ASP:HB3	40:78:7:ARG:HH22	1.73	0.53
1:1G:376:G:H5"	16:7A:5:ARG:HB2	1.90	0.53
1:1G:1259:C:N4	1:1G:1260:C:O2	2.41	0.53
8:72:29:SER:H	8:72:32:LYS:HB2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:33:ILE:O	20:BA:37:SER:OG	2.26	0.53
24:3L:54:G:H1	24:3L:62:C:H42	1.55	0.53
26:14:443:A:H1'	26:14:1201:C:O4'	2.08	0.53
26:14:631:A:O2'	40:35:67:MET:HB3	2.08	0.53
26:14:1084:A:H2'	26:14:1085:A:H8	1.72	0.53
26:14:1678:G:N2	26:14:1989:G:N2	2.56	0.53
26:14:2680:C:H1'	30:29:187:ALA:HB1	1.91	0.53
29:19:31:LYS:HZ3	29:19:33:LEU:HB3	1.73	0.53
29:19:68:LYS:HB3	29:19:70:TRP:CH2	2.43	0.53
31:39:63:LYS:HE3	31:39:67:GLN:HB3	1.91	0.53
33:59:4:ILE:HB	33:59:6:ARG:NH1	2.24	0.53
33:59:46:GLU:OE1	33:59:51:ARG:NH1	2.41	0.53
39:25:22:ILE:HB	39:25:41:ALA:HA	1.91	0.53
39:25:78:ARG:HH21	44:75:103:ARG:NH2	2.07	0.53
50:D5:8:TYR:CD1	50:D5:62:PRO:HG3	2.29	0.53
1:13:458:C:H2'	1:13:464:G:C8	2.43	0.53
1:13:1427:U:H2'	1:13:1428:A:C8	2.43	0.53
2:1E:24:TRP:CD1	2:1E:24:TRP:H	2.27	0.53
4:3E:76:ARG:HH12	4:3E:209:ARG:NH1	2.07	0.53
10:1I:5:ARG:NH2	10:1I:99:LYS:HD2	2.24	0.53
17:8I:58:GLU:HB2	17:8I:74:LEU:HB3	1.91	0.53
18:9I:22:VAL:HG13	18:9I:42:ARG:NH1	2.20	0.53
26:1H:796:C:H2'	26:1H:797:C:C6	2.44	0.53
26:1H:844:C:H3'	26:1H:845:G:H8	1.74	0.53
26:1H:1257:C:H4'	31:31:83:PHE:CD1	2.44	0.53
28:71:197:GLU:HG2	28:71:208:PHE:HZ	1.73	0.53
31:31:165:ARG:HA	31:31:168:ARG:HD3	1.90	0.53
44:B8:97:ALA:HB1	44:B8:98:LYS:HZ1	1.74	0.53
58:P8:18:PHE:CE1	58:P8:22:MET:HG3	2.44	0.53
1:1G:1286:A:C8	1:1G:1287:A:H4'	2.44	0.53
2:12:162:ILE:O	2:12:185:ILE:HG12	2.09	0.53
18:9A:36:ASN:HB2	18:9A:38:GLU:OE2	2.09	0.53
20:BA:40:ALA:HB2	20:BA:55:ILE:HG22	1.89	0.53
26:14:57:C:H2'	26:14:58:G:O4'	2.09	0.53
26:14:380:U:H2'	26:14:381:G:H8	1.74	0.53
26:14:395:U:O2'	26:14:396:G:C8	2.58	0.53
26:14:2252:G:H2'	26:14:2253:G:O4'	2.08	0.53
26:14:2851:A:H2'	26:14:2852:G:C8	2.44	0.53
27:1J:88:C:H5'	27:1J:89:G:C5	2.43	0.53
29:19:72:LYS:HG3	29:19:103:ARG:NH2	2.24	0.53
31:39:182:ASN:HD21	31:39:185:ASP:CG	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:59:99:VAL:HG22	33:59:104:GLU:HB3	1.91	0.53
35:69:54:GLN:HA	35:69:57:ARG:HE	1.74	0.53
43:65:67:ARG:NH1	43:65:67:ARG:HB2	2.24	0.53
52:F5:79:GLY:O	52:F5:80:LEU:HD13	2.09	0.53
1:13:346:G:H1'	44:B8:41:ARG:HD3	1.91	0.53
8:7E:51:VAL:HG11	8:7E:60:ARG:HB2	1.91	0.53
22:1K:58:G:OP2	41:88:60:ARG:NH2	2.41	0.53
26:1H:946:G:P	63:1H:3917:HOH:O	2.67	0.53
26:1H:1264:G:H5'	56:N8:11:THR:CG2	2.38	0.53
26:1H:1919:A:H5"	26:1H:1920:C:OP2	2.09	0.53
26:1H:2114:A:H2'	26:1H:2114:A:N3	2.24	0.53
26:1H:2306:C:H3'	26:1H:2307:G:C5'	2.38	0.53
26:1H:2689:U:H5"	26:1H:2713:A:C2	2.44	0.53
27:16:37:C:C2'	27:16:38:C:H5'	2.39	0.53
35:61:1:MET:O	35:61:20:ASP:HA	2.09	0.53
36:38:72:ASP:O	36:38:73:GLY:C	2.51	0.53
48:F8:36:LYS:HA	48:F8:39:ILE:HD12	1.91	0.53
1:1G:1432:G:OP1	44:75:107:ASP:HB2	2.09	0.53
3:22:199:LYS:HB3	3:22:201:TYR:HE1	1.74	0.53
26:14:848:G:H2'	26:14:849:A:H8	1.71	0.53
27:1J:2:C:H2'	27:1J:3:C:C5	2.43	0.53
31:39:178:PRO:HG2	31:39:179:GLU:OE1	2.09	0.53
32:49:56:ALA:HB2	32:49:153:ARG:CZ	2.39	0.53
39:25:10:VAL:HG13	39:25:17:ARG:C	2.34	0.53
40:35:124:LYS:HE2	40:35:145:PRO:HD3	1.90	0.53
53:G5:32:LEU:HA	53:G5:53:LEU:HD13	1.91	0.53
1:13:223:U:H2'	1:13:224:C:C6	2.44	0.53
1:13:684:A:O2'	11:2I:38:ASN:HB3	2.08	0.53
1:13:984:C:H2'	1:13:985:C:H6	1.74	0.53
26:1H:698:C:O2'	26:1H:734:A:N6	2.42	0.53
26:1H:1680:U:O2'	26:1H:1763:G:N7	2.41	0.53
26:1H:1728:G:H2'	26:1H:1731:G:O6	2.08	0.53
26:1H:2058:A:H5"	26:1H:2059:A:OP2	2.09	0.53
26:1H:2183:C:H2'	26:1H:2184:G:H8	1.74	0.53
36:38:16:ASN:HA	36:38:19:ARG:O	2.09	0.53
36:38:51:LEU:HD12	36:38:52:PHE:H	1.73	0.53
37:48:9:LYS:HD2	37:48:10:LEU:HD22	1.91	0.53
37:48:52:ILE:CD1	37:48:76:TYR:HB2	2.38	0.53
43:A8:85:VAL:HG23	43:A8:112:PHE:CZ	2.44	0.53
49:G8:96:ILE:HD12	49:G8:97:ARG:H	1.74	0.53
55:M8:23:GLU:C	55:M8:25:TYR:H	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1181:G:N7	1:1G:1182:G:N2	2.44	0.53
1:1G:1422:G:H2'	1:1G:1423:G:H8	1.74	0.53
6:52:96:PRO:HB3	18:9A:30:ASP:CG	2.34	0.53
9:82:87:GLN:OE1	9:82:88:TYR:N	2.41	0.53
26:14:1047:G:O2'	26:14:1110:G:N2	2.40	0.53
26:14:1084:A:H2'	26:14:1085:A:C8	2.44	0.53
26:14:2379:G:O2'	43:65:17:ARG:NH1	2.42	0.53
29:19:131:LEU:HD13	29:19:136:ILE:HG12	1.91	0.53
31:39:156:LEU:HA	31:39:193:VAL:HG12	1.90	0.53
43:65:52:SER:HB2	43:65:54:LEU:H	1.74	0.53
1:13:192:U:H4'	20:BI:103:GLY:HA2	1.89	0.52
1:13:1145:C:H4'	1:13:1146:A:H8	1.74	0.52
2:1E:61:LEU:HD23	2:1E:68:ILE:HD11	1.91	0.52
3:2E:11:ARG:HB3	3:2E:15:THR:HB	1.90	0.52
16:7I:19:ILE:HB	16:7I:36:ILE:HG13	1.90	0.52
26:1H:1359:A:N1	26:1H:1372:U:C4	2.77	0.52
26:1H:1366:A:C2'	26:1H:1367:A:H5'	2.39	0.52
26:1H:2017:U:OP1	63:1H:3957:HOH:O	2.19	0.52
26:1H:2182:G:H2'	26:1H:2183:C:O4'	2.10	0.52
26:1H:2232:U:P	52:J8:40:ARG:HH12	2.32	0.52
26:1H:2284:C:H41	57:O8:25:LYS:NZ	2.06	0.52
29:11:30:GLU:CD	29:11:63:ARG:HE	2.14	0.52
30:21:101:ARG:CZ	30:21:171:GLU:HB2	2.39	0.52
34:18:29:GLU:HG3	34:28:6:GLU:CD	2.34	0.52
43:A8:18:ILE:O	43:A8:21:THR:HG22	2.09	0.52
44:B8:20:PRO:HD2	44:B8:86:ILE:HG23	1.91	0.52
45:C8:75:ASN:HB3	45:C8:77:SER:H	1.74	0.52
1:1G:192:U:H2'	1:1G:193:C:C6	2.44	0.52
1:1G:819:A:H5'	1:1G:820:U:H5	1.73	0.52
1:1G:1206:G:C6	1:1G:1207:G:C6	2.97	0.52
1:1G:1226:C:H2'	13:4A:103:THR:HB	1.91	0.52
1:1G:1320:C:H2'	1:1G:1321:C:C6	2.44	0.52
4:32:31:CYS:HA	61:32:303:SF4:S2	2.49	0.52
26:14:774:A:H2	26:14:787:U:O2'	1.91	0.52
26:14:1285:G:N1	26:14:1329:U:OP1	2.43	0.52
26:14:1702:G:O6	63:14:3873:HOH:O	2.18	0.52
26:14:2001:A:H2'	26:14:2002:G:C8	2.44	0.52
41:45:11:LYS:NZ	41:45:86:GLY:O	2.40	0.52
46:95:21:ARG:HH21	46:95:91:TYR:HB3	1.74	0.52
1:13:64:G:H4'	1:13:65:U:H5'	1.91	0.52
1:13:128:G:H5'	17:8I:2:PRO:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:178:C:H2'	1:13:179:A:O4'	2.08	0.52
1:13:1216:G:OP2	14:5I:1:MET:HG3	2.10	0.52
1:13:1347:G:N2	1:13:1373:G:H2'	2.25	0.52
4:3E:102:ASP:OD1	4:3E:103:ASN:N	2.43	0.52
14:5I:53:LEU:HB3	14:5I:56:VAL:HG21	1.90	0.52
26:1H:355:G:H2'	26:1H:356:G:H8	1.74	0.52
26:1H:589:C:H2'	26:1H:590:A:H8	1.73	0.52
26:1H:2756:U:H4'	26:1H:2757:A:OP1	2.08	0.52
28:71:184:LYS:HA	28:71:187:ASP:HB3	1.91	0.52
31:31:7:TYR:HD2	31:31:21:ALA:HB1	1.73	0.52
32:41:115:ARG:HB3	32:41:115:ARG:HH11	1.74	0.52
50:H8:77:ASP:OD1	50:H8:80:ARG:NH1	2.42	0.52
53:K8:50:ILE:HD12	53:K8:51:ARG:H	1.72	0.52
1:1G:1034:G:H2'	1:1G:1035:A:C8	2.44	0.52
1:1G:1422:G:H5"	39:25:48:PRO:HB3	1.90	0.52
4:32:168:ARG:NH1	4:32:169:LYS:H	1.97	0.52
8:72:113:SER:HB2	8:72:134:ILE:HD11	1.90	0.52
12:3A:55:VAL:HG23	12:3A:69:TYR:HA	1.91	0.52
26:14:382:G:OP2	63:14:3881:HOH:O	2.19	0.52
26:14:1111:A:O3'	26:14:1112:G:H4'	2.09	0.52
26:14:1893:C:C2'	26:14:1894:C:H5'	2.39	0.52
26:14:2354:G:O2'	51:E5:36:ILE:HD12	2.08	0.52
30:29:47:VAL:HG21	30:29:86:PRO:HD2	1.91	0.52
33:59:30:LYS:HD3	33:59:79:VAL:O	2.09	0.52
33:59:157:TYR:O	33:59:171:LEU:HB3	2.10	0.52
38:15:72:TYR:O	38:15:84:LYS:HA	2.09	0.52
45:85:95:LEU:HD11	46:95:11:GLN:C	2.33	0.52
1:13:652:U:HO2'	1:13:653:A:P	2.33	0.52
1:13:1006:C:H2'	1:13:1007:C:C6	2.44	0.52
3:2E:35:GLU:HG2	3:2E:39:ILE:HD11	1.91	0.52
5:4E:41:VAL:O	5:4E:66:MET:HA	2.09	0.52
10:1I:84:GLN:NE2	10:1I:88:LEU:HD23	2.24	0.52
26:1H:1453:A:O2'	26:1H:1454:U:H2'	2.10	0.52
26:1H:2615:U:C2	56:N8:7:PRO:HA	2.44	0.52
26:1H:2751:G:H8	26:1H:2751:G:O5'	1.93	0.52
38:58:40:PRO:O	45:C8:64:ARG:HG2	2.09	0.52
1:1G:108:G:OP1	1:1G:326:G:N2	2.42	0.52
1:1G:560:U:O2'	1:1G:561:U:OP2	2.25	0.52
1:1G:1292:U:H2'	1:1G:1293:G:C8	2.45	0.52
7:62:93:PRO:HB2	7:62:94:ARG:HE	1.73	0.52
9:82:14:VAL:O	9:82:65:VAL:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:276:A:O2'	26:14:277:C:H5	1.91	0.52
26:14:463:G:N2	26:14:466:A:OP2	2.37	0.52
26:14:527:C:H4'	26:14:528:A:O5'	2.10	0.52
26:14:660:G:H21	40:35:12:ALA:CA	2.19	0.52
26:14:1856:G:H2'	26:14:1857:G:H5'	1.90	0.52
26:14:1926:U:H2'	26:14:1928:A:OP2	2.08	0.52
26:14:2185:C:H2'	26:14:2186:G:C8	2.44	0.52
26:14:2776:A:OP1	26:14:2776:A:H3'	2.09	0.52
32:49:33:ARG:CZ	32:49:162:THR:HG21	2.40	0.52
40:35:110:TYR:HD1	40:35:111:ARG:HD2	1.74	0.52
52:F5:91:LYS:HG3	52:F5:92:LYS:N	2.24	0.52
1:13:271:C:H2'	1:13:272:C:H6	1.74	0.52
1:13:624:C:O3'	16:7I:10:GLY:HA2	2.10	0.52
1:13:963:G:H5'	63:13:2031:HOH:O	2.10	0.52
1:13:1250:A:H4'	9:8E:68:GLY:N	2.24	0.52
2:1E:204:ASN:OD1	2:1E:205:ASP:N	2.42	0.52
4:3E:74:GLN:O	4:3E:78:LEU:HD13	2.10	0.52
14:5I:29:ARG:HH12	14:5I:31:ARG:HB2	1.74	0.52
17:8I:31:LEU:HG	17:8I:32:TYR:CE1	2.44	0.52
26:1H:234:C:H2'	26:1H:235:U:H6	1.73	0.52
26:1H:654:A:H2'	26:1H:654(A):A:H8	1.75	0.52
29:11:40:THR:OG1	29:11:41:GLY:N	2.40	0.52
47:E8:14:PRO:HG2	47:E8:78:GLU:HG3	1.89	0.52
1:1G:929:G:H1	1:1G:1388:C:H42	1.57	0.52
1:1G:1386:G:C2	1:1G:1387:G:C8	2.96	0.52
1:1G:1414:U:H2'	1:1G:1415:G:C8	2.45	0.52
2:12:83:MET:SD	2:12:234:PRO:HB2	2.48	0.52
9:82:51:ARG:HG3	9:82:56:LEU:HB2	1.92	0.52
20:BA:67:ALA:O	20:BA:73:HIS:ND1	2.43	0.52
26:14:304:G:H2'	26:14:305:U:C6	2.44	0.52
26:14:336:C:OP1	49:C5:83:THR:HG23	2.08	0.52
26:14:576:U:H5	63:14:4438:HOH:O	1.91	0.52
26:14:833:U:O3'	59:M5:57:ARG:NH2	2.40	0.52
26:14:1069:A:H2'	26:14:1073:A:H62	1.75	0.52
26:14:1188:U:C2'	26:14:1189:A:H5'	2.39	0.52
26:14:1542:G:O6	26:14:1543:A:N6	2.43	0.52
26:14:2190:G:H2'	26:14:2191:G:H1'	1.90	0.52
26:14:2667:C:N3	33:59:110:SER:HB3	2.24	0.52
63:14:3737:HOH:O	30:29:135:HIS:CE1	2.60	0.52
27:1J:50:G:OP1	43:65:63:THR:OG1	2.21	0.52
31:39:110:LEU:HD21	31:39:181:LEU:HD22	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:65:106:ARG:H	43:65:106:ARG:HE	1.58	0.52
48:B5:49:VAL:HG21	48:B5:89:ILE:HD11	1.90	0.52
50:D5:92:SER:O	50:D5:94:GLU:HG2	2.09	0.52
1:13:418:C:H2'	1:13:419:C:C6	2.43	0.52
1:13:612:C:O2	1:13:629:G:N2	2.42	0.52
21:1F:12:LYS:O	21:1F:16:GLY:N	2.40	0.52
26:1H:1790:C:H5"	26:1H:1791:A:OP1	2.09	0.52
26:1H:2880:C:H1'	42:98:92:GLY:O	2.09	0.52
28:71:40:THR:HA	28:71:178:ALA:HB3	1.92	0.52
36:38:4:LYS:O	36:38:7:VAL:HG13	2.09	0.52
36:38:17:LEU:HB3	36:38:66:LEU:HD13	1.90	0.52
36:38:46:GLN:O	36:38:47:ASN:ND2	2.39	0.52
37:48:71:THR:HG21	37:48:111:LYS:HA	1.90	0.52
38:58:97:ARG:HA	38:58:100:GLU:HB2	1.91	0.52
49:G8:29:GLU:H	49:G8:38:ILE:HG23	1.74	0.52
50:H8:128:VAL:HB	50:H8:161:VAL:HG12	1.91	0.52
1:1G:1203:C:H2'	1:1G:1204:A:O4'	2.10	0.52
16:7A:21:VAL:HG22	16:7A:33:ILE:HB	1.90	0.52
19:AA:58:VAL:O	19:AA:60:VAL:N	2.42	0.52
22:1L:73:C:O2'	22:1L:74:A:H8	1.92	0.52
23:2L:62:C:H2'	23:2L:63:C:H6	1.74	0.52
26:14:25:U:H5"	47:A5:80:PRO:HD3	1.90	0.52
26:14:1000:A:C6	26:14:1001:A:N1	2.78	0.52
26:14:1043:C:H42	26:14:1112:G:H1	1.57	0.52
26:14:1288:U:C2	26:14:1327:C:O2	2.63	0.52
26:14:2675:A:H4'	39:25:29:ASN:ND2	2.25	0.52
32:49:72:ARG:HB3	32:49:85:GLY:HA2	1.92	0.52
35:69:111:PRO:C	35:69:113:ARG:H	2.16	0.52
49:C5:19:LYS:HG3	49:C5:19:LYS:O	2.08	0.52
51:E5:53:MET:HG3	51:E5:59:LEU:CD2	2.36	0.52
59:M5:40:GLU:HA	59:M5:43:GLN:HB3	1.92	0.52
1:13:1366:C:H2'	1:13:1367:C:C6	2.43	0.52
11:2I:124:LYS:HE3	11:2I:125:PHE:CZ	2.45	0.52
12:3I:6:THR:OG1	12:3I:9:GLN:HG3	2.09	0.52
26:1H:33:U:O2'	26:1H:34:C:O2	2.21	0.52
26:1H:885:C:C4	26:1H:886:C:H1'	2.44	0.52
26:1H:1510:A:H2'	26:1H:1510:A:N3	2.25	0.52
26:1H:1678:G:N2	26:1H:1989:G:N2	2.48	0.52
26:1H:1889:A:N1	26:1H:2234:G:H1'	2.24	0.52
33:51:16:SER:O	33:51:17:VAL:HG23	2.09	0.52
36:38:19:ARG:NH1	36:38:86:PRO:HD3	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:48:78:ILE:HG12	37:48:131:ALA:HB2	1.91	0.52
40:78:2:LYS:HG3	40:78:4:SER:H	1.75	0.52
48:F8:5:TYR:CE1	53:K8:30:ARG:HG3	2.45	0.52
51:I8:24:LYS:O	51:I8:25:ARG:NH1	2.40	0.52
53:K8:15:LYS:HD3	53:K8:67:LYS:HZ1	1.73	0.52
1:1G:186(A):C:H4'	20:BA:85:MET:HB2	1.91	0.52
1:1G:574:A:OP2	63:1G:1819:HOH:O	2.19	0.52
1:1G:942:G:C2	1:1G:1342:C:C2	2.97	0.52
10:1A:79:ARG:O	10:1A:83:GLU:HB2	2.09	0.52
24:3L:59:A:OP1	24:3L:59:A:H3'	2.10	0.52
26:14:161:U:H5'	26:14:171:G:H21	1.74	0.52
26:14:1568:G:H5'	29:19:60:ARG:HA	1.91	0.52
26:14:1820:U:H4'	26:14:1821:A:OP2	2.10	0.52
26:14:1997:G:H5"	63:14:3964:HOH:O	2.10	0.52
35:69:128:LEU:O	35:69:137:PRO:HA	2.10	0.52
40:35:39:LYS:HB2	40:35:45:LEU:HD11	1.90	0.52
49:C5:71:LYS:HZ3	49:C5:71:LYS:HB2	1.73	0.52
1:13:377:G:H5'	16:7I:5:ARG:NH1	2.25	0.52
1:13:688:G:H2'	1:13:689:C:C6	2.45	0.52
1:13:1217:C:OP1	14:5I:9:LYS:NZ	2.40	0.52
1:13:1342:C:O2'	9:8E:124:GLN:HG3	2.10	0.52
4:3E:112:VAL:HG12	4:3E:116:GLN:OE1	2.09	0.52
16:7I:22:THR:OG1	16:7I:32:TYR:HA	2.09	0.52
26:1H:654(A):A:H2	26:1H:654(T):A:N1	2.07	0.52
26:1H:1710:C:H42	26:1H:1748:G:H1	1.57	0.52
26:1H:2160:G:C5	26:1H:2161:C:H1'	2.45	0.52
26:1H:2210:G:H3'	26:1H:2211:G:C8	2.45	0.52
26:1H:2376:A:H2'	26:1H:2377:A:O4'	2.09	0.52
32:41:110:ALA:HA	32:41:140:ILE:O	2.09	0.52
38:58:70:LYS:HE3	38:58:72:TYR:CE1	2.38	0.52
45:C8:75:ASN:HB3	45:C8:77:SER:N	2.25	0.52
1:1G:363:A:OP1	12:3A:33:ARG:HD2	2.10	0.52
1:1G:436:C:O3'	4:32:155:LEU:HD21	2.10	0.52
1:1G:1140:C:H2'	1:1G:1141:C:C6	2.44	0.52
1:1G:1391:U:H2'	1:1G:1392:G:C8	2.45	0.52
9:82:24:GLY:HA2	9:82:59:PHE:O	2.09	0.52
11:2A:32:ILE:HD11	11:2A:68:ALA:HB1	1.92	0.52
26:14:850:C:O3'	54:H5:49:LYS:HE2	2.10	0.52
26:14:994:C:OP2	45:85:54:LYS:NZ	2.33	0.52
26:14:1062:G:H1'	26:14:1088:A:C8	2.45	0.52
26:14:1257:C:H4'	31:39:83:PHE:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:59:124:GLU:OE1	33:59:133:VAL:HA	2.09	0.52
43:65:89:ARG:O	43:65:90:GLY:C	2.53	0.52
1:13:445:G:H1	1:13:489:C:H42	1.58	0.52
1:13:738:C:H2'	1:13:739:C:H6	1.74	0.52
1:13:1034:G:O2'	1:13:1035:A:H5'	2.10	0.52
2:1E:6:THR:OG1	2:1E:7:VAL:N	2.43	0.52
6:5E:22:GLU:O	6:5E:26:ILE:HG13	2.09	0.52
10:1I:34:VAL:HG13	10:1I:74:ILE:CG2	2.39	0.52
10:1I:39:PRO:HB3	10:1I:70:ARG:NH1	2.25	0.52
26:1H:552:G:H2'	26:1H:553:U:O4'	2.08	0.52
26:1H:1831:G:H2'	26:1H:1832:C:H6	1.74	0.52
28:71:202:GLU:OE1	28:71:203:GLY:N	2.41	0.52
31:31:64:ILE:HG23	31:31:65:TRP:CD1	2.44	0.52
32:41:83:ARG:N	32:41:86:MET:HE2	2.21	0.52
37:48:128:ALA:O	37:48:132:ARG:HB3	2.10	0.52
39:68:26:LYS:HB2	39:68:30:ALA:HB2	1.91	0.52
50:H8:109:ALA:HB1	50:H8:142:SER:HB3	1.91	0.52
1:1G:1184:G:H2'	1:1G:1185:G:C8	2.41	0.52
1:1G:1297:C:OP1	13:4A:13:LYS:NZ	2.30	0.52
2:12:8:LYS:O	2:12:10:LEU:N	2.41	0.52
10:1A:7:LYS:HE3	10:1A:71:LEU:HD13	1.91	0.52
14:5A:7:ILE:HB	14:5A:23:ARG:HD3	1.92	0.52
26:14:616:A:C4	31:39:180:GLY:HA3	2.45	0.52
26:14:1441:G:H2'	26:14:1442:G:H8	1.73	0.52
26:14:1665:A:N6	63:14:4107:HOH:O	2.43	0.52
30:29:47:VAL:HG21	30:29:86:PRO:CD	2.40	0.52
31:39:155:LEU:HD23	31:39:186:ILE:HD13	1.92	0.52
33:59:91:GLY:HA3	33:59:94:TYR:HB2	1.91	0.52
46:95:62:LEU:CD2	46:95:95:LEU:HB2	2.39	0.52
53:G5:37:PHE:C	53:G5:39:ALA:H	2.17	0.52
1:13:129(A):G:C2	1:13:188:U:O2'	2.63	0.52
4:3E:103:ASN:OD1	4:3E:114:ARG:NH2	2.42	0.52
13:4I:3:ARG:HG3	13:4I:7:VAL:O	2.10	0.52
13:4I:25:ILE:HD11	13:4I:66:LEU:HD11	1.92	0.52
19:AI:52:TYR:HA	19:AI:56:GLN:O	2.10	0.52
24:3K:52:A:H2'	24:3K:53:G:C8	2.45	0.52
26:1H:631:A:H5'	63:1H:5135:HOH:O	2.10	0.52
26:1H:889:C:H2'	26:1H:890:A:O4'	2.08	0.52
26:1H:1035:U:H2'	26:1H:1036:G:C8	2.45	0.52
28:71:45:ALA:HB1	28:71:47:LEU:HD21	1.90	0.52
29:11:140:THR:HB	29:11:165:ILE:HD11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:11:206:LEU:HA	29:11:211:ARG:HD3	1.91	0.52
32:41:10:LYS:O	32:41:15:VAL:HG23	2.10	0.52
32:41:80:PHE:N	32:41:80:PHE:CD1	2.78	0.52
34:18:20:LEU:HD13	34:18:24:ILE:HG21	1.92	0.52
37:48:11:GLN:OE1	37:48:17:ALA:HB1	2.09	0.52
40:78:15:ARG:HB3	40:78:15:ARG:NH1	2.21	0.52
52:J8:80:LEU:O	52:J8:81:LYS:NZ	2.33	0.52
57:O8:40:CYS:HB2	57:O8:46:HIS:CE1	2.44	0.52
1:1G:107:G:C2	1:1G:108:G:H1'	2.45	0.52
1:1G:1295:G:HO2'	13:4A:14:ARG:NH1	2.05	0.52
1:1G:1387:G:H2'	1:1G:1388:C:C6	2.45	0.52
3:22:70:VAL:HG12	3:22:72:LYS:H	1.74	0.52
11:2A:67:ASP:OD2	11:2A:71:LYS:NZ	2.32	0.52
19:AA:23:ASN:N	19:AA:23:ASN:OD1	2.43	0.52
24:3L:42:G:H2'	24:3L:43:A:O4'	2.10	0.52
26:14:833:U:H2'	26:14:834:C:C6	2.45	0.52
26:14:2287:A:H2	26:14:2346:A:H2	1.58	0.52
26:14:2360:A:H8	26:14:2360:A:O5'	1.92	0.52
49:C5:20:TYR:CZ	49:C5:42:VAL:HA	2.44	0.52
1:13:209:U:H5'	1:13:210:U:OP2	2.09	0.52
1:13:595:G:H1'	1:13:596:C:H5	1.75	0.52
1:13:1238:A:H62	1:13:1301:U:H3	1.57	0.52
7:6E:152:ALA:O	7:6E:155:ARG:NH1	2.42	0.52
63:1H:4984:HOH:O	35:61:22:LYS:HG2	2.09	0.52
29:11:96:HIS:CD2	29:11:102:LYS:HE2	2.45	0.52
29:11:124:PRO:HG2	29:11:129:ASN:ND2	2.25	0.52
31:31:24:LEU:HD23	31:31:115:ALA:HA	1.90	0.52
36:38:83:TYR:CG	36:38:84:GLU:N	2.77	0.52
41:88:135:ASP:H	41:88:138:ASP:HB2	1.74	0.52
49:G8:30:VAL:HG13	49:G8:37:VAL:HG12	1.91	0.52
4:32:178:VAL:C	4:32:180:GLY:H	2.18	0.52
8:72:120:THR:CG2	8:72:123:GLU:H	2.23	0.52
10:1A:47:PHE:CE1	10:1A:63:PHE:HB2	2.45	0.52
13:4A:78:ILE:O	13:4A:81:LEU:HB2	2.10	0.52
17:8A:97:SER:O	17:8A:98:LEU:HD23	2.09	0.52
19:AA:69:HIS:HB3	19:AA:73:GLU:OE1	2.09	0.52
26:14:481:G:OP2	49:C5:47:LYS:HB2	2.09	0.52
26:14:832:G:H21	40:35:53:GLY:HA3	1.75	0.52
26:14:1665:A:H1'	39:25:1:MET:HG3	1.90	0.52
26:14:2119:A:H3'	26:14:2119:A:N3	2.25	0.52
32:49:8:LYS:O	32:49:11:TYR:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1238:A:N3	1:13:1241:G:O2'	2.33	0.51
10:1I:6:ILE:HA	10:1I:97:GLU:O	2.10	0.51
10:1I:7:LYS:O	10:1I:8:LEU:HD23	2.10	0.51
22:1K:14:A:O2'	22:1K:15:G:N7	2.42	0.51
22:1K:38:2MA:H2'	22:1K:39:A:O4'	2.11	0.51
23:2K:21:U:H3'	23:2K:22:A:H5'	1.91	0.51
26:1H:568:U:O4	63:1H:3864:HOH:O	2.19	0.51
26:1H:754:C:H2'	26:1H:755:C:C6	2.45	0.51
26:1H:2250:G:C5	41:88:83:MET:HB3	2.44	0.51
26:1H:2756:U:H1'	26:1H:2757:A:H5"	1.91	0.51
28:71:22:ILE:HD12	28:71:224:ILE:HD12	1.90	0.51
30:21:176:ILE:HB	30:21:181:LEU:HB2	1.91	0.51
36:38:30:GLN:HE22	36:38:55:LYS:HB2	1.75	0.51
41:88:12:GLN:HG2	41:88:73:PRO:HD2	1.92	0.51
45:C8:97:ASP:OD2	45:C8:101:ARG:NH2	2.33	0.51
46:D8:36:PRO:HB2	46:D8:37:VAL:HG22	1.92	0.51
1:1G:666:G:H5'	1:1G:726:C:H1'	1.92	0.51
1:1G:862:C:N4	63:1G:1881:HOH:O	2.38	0.51
1:1G:1371:G:OP1	9:82:11:LYS:HB3	2.10	0.51
4:32:90:GLY:HA3	4:32:204:ILE:HD11	1.93	0.51
4:32:101:LEU:HD23	4:32:121:VAL:HG11	1.92	0.51
26:14:71:A:C2	48:B5:31:HIS:CE1	2.98	0.51
26:14:141:A:C8	26:14:1408:C:H1'	2.44	0.51
26:14:581:C:H2'	26:14:582:G:H8	1.75	0.51
26:14:589:C:H2'	26:14:590:A:H8	1.75	0.51
26:14:654(A):A:H2	26:14:654(T):A:N7	2.07	0.51
26:14:821:A:O2'	26:14:946:G:OP2	2.25	0.51
26:14:1444(A):A:O2'	26:14:1445:C:OP1	2.26	0.51
26:14:2469:A:OP1	26:14:2469:A:H4'	2.09	0.51
30:29:116:VAL:HG23	30:29:120:TRP:HB2	1.92	0.51
38:15:35:ARG:HB3	38:15:42:TRP:HZ3	1.74	0.51
44:75:26:ASP:OD1	44:75:120:ARG:NH2	2.38	0.51
45:85:50:ARG:HG2	45:85:53:ARG:HH21	1.75	0.51
53:G5:23:LYS:HA	53:G5:26:ARG:NH1	2.24	0.51
1:13:474:G:H8	1:13:474:G:O5'	1.93	0.51
1:13:807:A:H2'	1:13:808:C:C6	2.45	0.51
2:1E:92:TYR:CZ	2:1E:151:GLY:HA3	2.44	0.51
2:1E:121:LEU:HA	2:1E:124:SER:HB2	1.91	0.51
20:BI:49:ALA:HB3	20:BI:99:LEU:HG	1.92	0.51
26:1H:232:G:H5"	26:1H:232:G:C8	2.39	0.51
26:1H:787:U:H5"	26:1H:788:A:H5'	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1538:G:H2'	26:1H:1539:G:C8	2.46	0.51
26:1H:2432:A:C4	52:J8:33:LYS:HG2	2.45	0.51
27:16:44:G:H1'	27:16:47:C:H41	1.75	0.51
36:38:36:GLU:HB2	36:38:104:ILE:HB	1.92	0.51
37:48:115:LEU:HB3	37:48:126:MET:HE3	1.92	0.51
40:78:33:ARG:HG2	40:78:40:SER:HA	1.92	0.51
44:B8:54:ARG:HA	44:B8:59:THR:HG23	1.91	0.51
50:H8:97:GLU:HB3	50:H8:125:LEU:HD11	1.93	0.51
1:1G:41:G:H2'	1:1G:42:G:H8	1.70	0.51
1:1G:1018:C:H2'	1:1G:1019:C:O4'	2.10	0.51
1:1G:1220:G:O3'	19:AA:36:ARG:HD3	2.10	0.51
2:12:137:ARG:NH1	2:12:137:ARG:O	2.43	0.51
4:32:19:LEU:HB2	4:32:21:LEU:CD1	2.40	0.51
4:32:79:PHE:O	4:32:82:ALA:N	2.43	0.51
11:2A:54:ARG:NH2	24:3L:41:C:OP1	2.43	0.51
26:14:608:A:H2'	26:14:609:A:C8	2.45	0.51
26:14:1359:A:N7	26:14:1372:U:O4	2.43	0.51
26:14:1515:C:H2'	26:14:1516:U:C6	2.45	0.51
26:14:2734:A:H2'	26:14:2735:G:O4'	2.10	0.51
49:C5:46:LYS:HB3	49:C5:61:ILE:H	1.76	0.51
1:13:313:A:H2'	1:13:314:C:H6	1.74	0.51
1:13:375:U:O3'	16:7I:6:LEU:HB2	2.10	0.51
6:5E:16:GLN:HA	6:5E:19:LEU:HB2	1.92	0.51
7:6E:113:GLU:HB2	7:6E:118:VAL:HG13	1.92	0.51
7:6E:117:ALA:O	7:6E:121:ALA:N	2.41	0.51
9:8E:59:PHE:CZ	9:8E:88:TYR:HE2	2.25	0.51
18:9I:70:ILE:O	18:9I:74:ARG:HG3	2.11	0.51
24:3K:2:C:O5'	24:3K:2:C:H6	1.92	0.51
26:1H:234:C:H2'	26:1H:235:U:C6	2.44	0.51
26:1H:844:C:H3'	26:1H:845:G:C8	2.45	0.51
26:1H:2101:G:H1	26:1H:2188:C:H42	1.57	0.51
26:1H:2124:G:H1	26:1H:2174:C:N4	2.08	0.51
26:1H:2518:A:H5'	26:1H:2518:A:H8	1.73	0.51
26:1H:2630:G:H2'	26:1H:2631:G:H8	1.75	0.51
43:A8:68:GLN:HG3	43:A8:71:ARG:NH1	2.25	0.51
44:B8:50:ILE:HD11	44:B8:102:ILE:CD1	2.39	0.51
1:1G:1320:C:H2'	1:1G:1321:C:H6	1.75	0.51
8:72:28:ALA:HB3	8:72:57:PRO:HB2	1.92	0.51
12:3A:41:ARG:HB3	12:3A:41:ARG:NH1	2.24	0.51
16:7A:54:GLU:H	16:7A:54:GLU:CD	2.17	0.51
17:8A:18:THR:OG1	17:8A:69:LYS:NZ	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2L:48:U:H1'	23:2L:49:C:P	2.50	0.51
26:14:1963:U:O2	26:14:1963:U:H5"	2.10	0.51
26:14:2086:U:H2'	26:14:2087:G:C8	2.46	0.51
26:14:2114:A:C5'	26:14:2117:A:H5'	2.40	0.51
26:14:2125:G:H21	26:14:2173:A:N6	2.08	0.51
26:14:2520:C:H41	26:14:2542:A:N6	2.04	0.51
29:19:137:PRO:HG2	29:19:140:THR:OG1	2.10	0.51
31:39:103:LYS:HA	31:39:106:ARG:HG3	1.93	0.51
41:45:65:PHE:O	41:45:104:PHE:HA	2.10	0.51
41:45:78:PRO:HD3	41:45:87:LYS:HB2	1.92	0.51
42:55:78:LYS:O	42:55:83:ILE:HG13	2.10	0.51
47:A5:29:LEU:HD21	47:A5:33:ARG:CZ	2.41	0.51
1:13:454:C:H3'	1:13:455:C:C6	2.46	0.51
1:13:1191:A:H5"	3:2E:4:LYS:NZ	2.26	0.51
1:13:1397:C:H4'	1:13:1398:A:OP2	2.10	0.51
8:7E:39:LEU:HD11	8:7E:111:ILE:HD11	1.92	0.51
13:4I:27:LYS:HA	13:4I:31:LYS:HZ3	1.76	0.51
20:BI:10:LEU:HG	20:BI:12:ALA:HB3	1.92	0.51
26:1H:83:G:O6	63:1H:3950:HOH:O	2.18	0.51
26:1H:84:A:H5"	49:G8:8:LYS:HB3	1.92	0.51
26:1H:188:G:H5"	52:J8:14:VAL:HG21	1.92	0.51
26:1H:265:A:H1'	26:1H:266:G:O4'	2.10	0.51
26:1H:831:G:N2	40:78:53:GLY:O	2.43	0.51
26:1H:960:A:H2'	26:1H:962:G:H5'	1.93	0.51
26:1H:987:G:O2'	26:1H:1000:A:N3	2.35	0.51
26:1H:1805:U:O2	29:11:50:THR:HB	2.11	0.51
26:1H:2261:C:H1'	26:1H:2388:A:N3	2.25	0.51
26:1H:2439:A:P	26:1H:2439:A:H3'	2.51	0.51
26:1H:2659:G:O6	63:1H:3958:HOH:O	2.19	0.51
26:1H:2820:A:O2'	26:1H:2821:A:OP1	2.24	0.51
30:21:201:THR:HG22	30:21:202:LYS:H	1.75	0.51
31:31:111:ALA:HB2	31:31:206:ILE:HD12	1.92	0.51
36:38:4:LYS:CG	36:38:6:ASN:HB2	2.40	0.51
36:38:15:GLU:O	36:38:16:ASN:ND2	2.42	0.51
37:48:20:ALA:O	37:48:25:PRO:HD2	2.11	0.51
40:78:64:LYS:O	59:Q8:30:ARG:NH2	2.44	0.51
57:O8:41:PRO:HD2	57:O8:46:HIS:H	1.75	0.51
58:P8:12:ARG:NH2	58:P8:44:PRO:HB3	2.26	0.51
1:1G:191(F):U:H2'	1:1G:191:G:C8	2.45	0.51
1:1G:570:G:H2'	1:1G:571:U:C6	2.45	0.51
1:1G:1151:A:O2'	1:1G:1152:A:O5'	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1286:A:H5'	21:1B:25:LYS:HE3	1.92	0.51
3:22:129:ALA:HB3	3:22:132:ARG:HB3	1.92	0.51
7:62:73:MET:CB	7:62:90:GLU:HA	2.40	0.51
23:2L:8:4SU:C2	23:2L:14:A:H62	2.22	0.51
26:14:274:G:H2'	26:14:275:G:O4'	2.10	0.51
26:14:1657:C:H2'	26:14:1658:C:C6	2.45	0.51
31:39:7:TYR:O	31:39:15:SER:HA	2.10	0.51
33:59:7:LEU:N	33:59:8:PRO:HD2	2.25	0.51
35:69:72:LEU:HD21	35:69:107:VAL:HG21	1.92	0.51
38:15:47:ALA:HB2	38:15:112:LEU:HD21	1.92	0.51
39:25:2:ILE:HD12	39:25:6:THR:HG21	1.92	0.51
43:65:106:ARG:HE	43:65:106:ARG:N	2.09	0.51
47:A5:65:LEU:CD1	47:A5:68:ARG:HD3	2.41	0.51
1:13:396:G:O2'	1:13:398:C:OP1	2.23	0.51
2:1E:15:VAL:HG23	2:1E:213:LEU:HD21	1.92	0.51
4:3E:22:LYS:HB2	61:3E:303:SF4:S4	2.50	0.51
11:2I:78:GLN:O	11:2I:103:LEU:HB2	2.11	0.51
26:1H:748:G:C8	47:E8:89:ALA:HB1	2.45	0.51
26:1H:2807:G:H3'	26:1H:2808:U:H5"	1.92	0.51
32:41:107:LEU:HD21	32:41:178:PHE:CD1	2.46	0.51
35:61:40:THR:O	35:61:44:LEU:HB2	2.10	0.51
40:78:59:LEU:HD11	59:Q8:10:ALA:HA	1.93	0.51
49:G8:45:VAL:HG22	49:G8:46:LYS:H	1.75	0.51
50:H8:28:MET:HB2	50:H8:37:VAL:HG11	1.92	0.51
50:H8:60:GLU:O	50:H8:61:LEU:HB3	2.10	0.51
1:1G:685:G:C2	1:1G:686:U:C4	2.98	0.51
1:1G:1016:A:HO2'	1:1G:1217:C:HO2'	1.56	0.51
26:14:1108:U:H2'	26:14:1109:C:O4'	2.11	0.51
26:14:2342:C:O2	26:14:2374:C:H4'	2.10	0.51
39:25:63:VAL:O	39:25:64:ARG:HG3	2.11	0.51
41:45:21:THR:CG2	41:45:23:GLY:HA3	2.41	0.51
42:55:78:LYS:O	42:55:82:GLU:HG2	2.11	0.51
44:75:15:VAL:HG23	44:75:79:HIS:CE1	2.46	0.51
58:L5:8:ASN:C	58:L5:8:ASN:OD1	2.53	0.51
1:13:90:C:H5'	1:13:91:C:OP2	2.10	0.51
1:13:371:G:O2'	1:13:373:A:N7	2.42	0.51
1:13:674:G:N2	1:13:717:C:O2	2.43	0.51
1:13:1165:C:H2'	1:13:1166:G:O4'	2.11	0.51
1:13:1176:A:H3'	1:13:1177:G:H5"	1.93	0.51
2:1E:31:TYR:O	2:1E:42:ILE:HA	2.11	0.51
10:1I:57:LYS:HD2	10:1I:60:ARG:NH2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3I:39:VAL:HG11	12:3I:41:ARG:HD2	1.91	0.51
14:5I:3:ARG:HG3	63:5I:202:HOH:O	2.10	0.51
14:5I:15:LYS:HG2	14:5I:16:PHE:CD2	2.46	0.51
16:7I:57:ARG:HH21	16:7I:79:VAL:C	2.18	0.51
18:9I:32:ARG:NH1	18:9I:65:ILE:HD13	2.26	0.51
26:1H:1006:C:H1'	38:58:106:MET:HE3	1.92	0.51
26:1H:1512:G:H2'	26:1H:1513:C:C6	2.45	0.51
26:1H:2840:C:O3'	42:98:53:HIS:NE2	2.44	0.51
29:11:147:LEU:HD22	29:11:155:LEU:HD11	1.91	0.51
36:38:6:ASN:O	36:38:10:LEU:HB2	2.11	0.51
36:38:12:THR:HG22	36:38:15:GLU:N	2.26	0.51
40:78:19:VAL:HG12	63:78:305:HOH:O	2.10	0.51
41:88:11:LYS:HE2	41:88:88:GLY:O	2.11	0.51
1:1G:281:G:H8	1:1G:281:G:OP2	1.92	0.51
1:1G:1256:A:N6	1:1G:1277:C:H3'	2.26	0.51
4:32:119:GLN:O	4:32:123:HIS:CD2	2.64	0.51
9:82:26:VAL:HG22	9:82:61:ALA:N	2.26	0.51
10:1A:4:ILE:HB	10:1A:74:ILE:HD11	1.92	0.51
26:14:957:A:N6	26:14:2459:A:C8	2.78	0.51
26:14:1405:U:H2'	26:14:1406:U:C6	2.46	0.51
26:14:2033:A:OP1	63:14:3886:HOH:O	2.19	0.51
26:14:2336:A:H61	51:E5:43:THR:HG21	1.76	0.51
30:29:53:PRO:O	30:29:54:GLN:HB2	2.10	0.51
30:29:66:HIS:CG	30:29:67:PHE:N	2.79	0.51
32:49:20:ILE:HG23	32:49:25:TYR:HB2	1.93	0.51
32:49:66:GLN:NE2	32:49:94:LEU:HD23	2.25	0.51
35:69:120:ILE:HG22	35:69:122:GLU:H	1.75	0.51
35:69:125:GLU:OE1	35:69:141:LYS:HB2	2.11	0.51
41:45:81:VAL:O	41:45:82:ARG:HG2	2.11	0.51
43:65:36:TYR:H	43:65:36:TYR:HD1	1.57	0.51
45:85:92:ARG:C	45:85:94:ASN:H	2.19	0.51
49:C5:76:CYS:HB2	49:C5:82:PRO:HG3	1.91	0.51
50:D5:26:GLY:HA3	50:D5:86:VAL:O	2.10	0.51
1:13:517:G:N1	1:13:533:A:OP2	2.36	0.51
1:13:738:C:H2'	1:13:739:C:C6	2.45	0.51
2:1E:144:ARG:HB2	2:1E:144:ARG:HH11	1.76	0.51
2:1E:155:LEU:HD11	2:1E:159:PRO:HD3	1.93	0.51
10:1I:89:ASP:C	10:1I:91:PRO:HD3	2.36	0.51
16:7I:58:TYR:O	16:7I:62:VAL:HG22	2.10	0.51
26:1H:34:C:O2'	26:1H:35:G:OP2	2.26	0.51
26:1H:818:G:H4'	26:1H:838:C:O3'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2751:G:H1'	33:51:3:ARG:NH2	2.25	0.51
28:71:214:VAL:HG23	28:71:224:ILE:HD13	1.92	0.51
29:11:33:LEU:HD23	29:11:33:LEU:H	1.76	0.51
35:61:77:LEU:HD13	35:61:140:LEU:HB3	1.91	0.51
39:68:86:ILE:HG22	39:68:94:ARG:HB2	1.93	0.51
41:88:66:ILE:HD12	41:88:67:ARG:N	2.26	0.51
44:B8:20:PRO:HG2	44:B8:86:ILE:O	2.10	0.51
54:L8:3:ARG:HB2	54:L8:59:VAL:HG13	1.92	0.51
1:1G:198:G:OP2	1:1G:198:G:H8	1.93	0.51
1:1G:216:G:O2'	1:1G:217:C:O5'	2.29	0.51
1:1G:250:A:H4'	1:1G:251:G:O5'	2.11	0.51
1:1G:1053:G:H5'	1:1G:1054:C:H3'	1.92	0.51
2:12:5:ILE:HD12	2:12:59:GLU:HB2	1.93	0.51
4:32:71:SER:HB3	4:32:74:GLN:HB2	1.92	0.51
10:1A:49:VAL:HG11	14:5A:45:ARG:HG3	1.93	0.51
12:3A:27:LEU:O	12:3A:29:GLY:N	2.44	0.51
13:4A:79:LYS:HD2	13:4A:82:MET:N	2.25	0.51
15:6A:87:ILE:O	15:6A:88:ARG:HB2	2.11	0.51
26:14:39:C:H2'	26:14:40:C:C6	2.46	0.51
26:14:65:C:H2'	26:14:66:C:C6	2.46	0.51
26:14:839:U:H2'	26:14:840:C:C6	2.45	0.51
26:14:859:G:O2'	26:14:916:G:O6	2.28	0.51
26:14:1171:G:O2'	26:14:1173:G:O4'	2.24	0.51
28:79:35:ALA:HB1	28:79:37:PHE:CE1	2.46	0.51
30:29:107:THR:O	30:29:190:GLY:HA2	2.11	0.51
33:59:139:GLN:HG3	33:59:140:LYS:N	2.25	0.51
38:15:91:LEU:HA	38:15:95:PRO:HB3	1.92	0.51
1:13:266:G:H5"	1:13:267:C:C5	2.45	0.51
1:13:836:G:H1	1:13:850:U:H3	1.59	0.51
1:13:1051:C:H2'	1:13:1052:U:C6	2.45	0.51
1:13:1347:G:H22	1:13:1374:A:P	2.33	0.51
1:13:1442:G:C6	1:13:1446:A:C6	2.99	0.51
12:3I:47:LYS:HB2	12:3I:48:PRO:HA	1.92	0.51
12:3I:53:ARG:HB3	12:3I:69:TYR:HE1	1.76	0.51
26:1H:182:A:H2	26:1H:433:C:O2	1.93	0.51
26:1H:1899:G:N2	26:1H:1902:C:C5	2.79	0.51
26:1H:2688:U:C5	26:1H:2720:U:OP2	2.64	0.51
31:31:116:ASP:O	31:31:120:GLU:HG3	2.11	0.51
44:B8:26:ASP:HB3	44:B8:92:GLY:N	2.26	0.51
50:H8:103:ARG:O	50:H8:139:VAL:N	2.40	0.51
1:1G:408:A:H2'	1:1G:409:G:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1478:C:H2'	1:1G:1479:C:H6	1.74	0.51
4:32:152:SER:C	4:32:154:ASN:H	2.16	0.51
6:52:11:ASN:O	6:52:14:LEU:HD22	2.11	0.51
7:62:87:VAL:N	7:62:88:PRO:HD3	2.25	0.51
10:1A:33:GLN:H	10:1A:75:ILE:HG12	1.75	0.51
10:1A:54:PHE:CG	10:1A:55:LYS:HG3	2.45	0.51
11:2A:21:ILE:HG12	11:2A:30:VAL:HG12	1.92	0.51
23:2L:15:G:N2	23:2L:22:A:N3	2.58	0.51
26:14:1412:A:H2'	26:14:1413:G:C8	2.45	0.51
26:14:1519:G:H2'	26:14:1520:U:O4'	2.11	0.51
26:14:1786:A:H2	26:14:2606:C:H1'	1.75	0.51
26:14:1812:A:O2'	29:19:45:ASN:HB3	2.11	0.51
26:14:2142:C:H2'	26:14:2143:C:C6	2.46	0.51
33:59:10:PRO:HG2	33:59:50:VAL:HG13	1.91	0.51
33:59:99:VAL:HG11	33:59:103:LEU:CA	2.40	0.51
33:59:99:VAL:HG11	33:59:103:LEU:HA	1.93	0.51
43:65:16:ASN:C	43:65:18:ILE:H	2.19	0.51
47:A5:86:LEU:HD12	47:A5:87:PRO:HD2	1.93	0.51
54:H5:30:ARG:HG3	54:H5:31:LEU:O	2.11	0.51
1:13:1:U:C2	1:13:630:G:H1'	2.45	0.51
1:13:765:G:H5"	1:13:766:A:OP1	2.11	0.51
1:13:1036:G:H3'	1:13:1037:C:C6	2.46	0.51
26:1H:1771:C:H1'	26:1H:1786:A:C8	2.46	0.51
26:1H:2572:A:N7	30:21:144:ARG:HD2	2.26	0.51
26:1H:2645:G:N2	26:1H:2767:C:OP2	2.44	0.51
36:38:62:ALA:O	36:38:63:LEU:HB2	2.10	0.51
41:88:21:THR:HG22	41:88:99:PRO:O	2.11	0.51
43:A8:88:ASP:OD1	43:A8:89:ARG:N	2.44	0.51
49:G8:34:LYS:O	49:G8:34:LYS:HD3	2.11	0.51
50:H8:9:TYR:CE1	50:H8:35:ARG:HG2	2.45	0.51
50:H8:105:VAL:N	50:H8:139:VAL:O	2.41	0.51
51:I8:53:MET:HG3	51:I8:59:LEU:HD23	1.93	0.51
56:N8:39:MET:C	56:N8:40:LYS:HD2	2.35	0.51
1:1G:607:A:H2'	1:1G:608:A:O4'	2.11	0.51
1:1G:1243:C:OP1	21:1B:10:ARG:CZ	2.59	0.51
1:1G:1262:C:N4	1:1G:1273:G:H1	2.05	0.51
1:1G:1288:A:H4'	21:1B:13:ILE:HD13	1.92	0.51
7:62:23:VAL:O	7:62:27:ILE:HG12	2.10	0.51
8:72:44:PHE:HA	8:72:79:VAL:HG11	1.93	0.51
16:7A:43:LYS:HG2	16:7A:48:TRP:CG	2.45	0.51
16:7A:75:ARG:HG3	16:7A:80:PHE:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8A:67:LYS:O	17:8A:69:LYS:N	2.44	0.51
26:14:522:G:H2'	26:14:523:C:C6	2.46	0.51
26:14:768:G:O2'	26:14:1379:A:N6	2.44	0.51
26:14:1899:G:N2	26:14:1902:C:N4	2.51	0.51
26:14:2701:C:C3'	26:14:2702:U:H5"	2.32	0.51
31:39:127:GLU:HB2	31:39:196:LEU:HD23	1.92	0.51
33:59:26:VAL:CG1	33:59:33:LEU:HB2	2.41	0.51
40:35:90:ARG:HG3	40:35:91:PHE:H	1.75	0.51
43:65:36:TYR:HA	43:65:52:SER:HB3	1.92	0.51
46:95:12:TYR:OH	46:95:22:VAL:HG23	2.11	0.51
48:B5:63:LYS:O	48:B5:63:LYS:HD2	2.11	0.51
52:F5:41:ARG:HD3	52:F5:43:TYR:CE1	2.46	0.51
1:13:199:G:H2'	1:13:200:G:H8	1.76	0.51
1:13:827:U:C5	1:13:870:U:C4	2.99	0.51
1:13:1255:G:H2'	1:13:1258:G:H21	1.76	0.51
1:13:1391:U:H2'	1:13:1392:G:H8	1.71	0.51
1:13:1525:G:OP2	11:2I:120:ARG:NH2	2.44	0.51
6:5E:69:GLU:H	6:5E:69:GLU:CD	2.18	0.51
7:6E:102:ARG:O	7:6E:106:GLN:HG3	2.11	0.51
24:3K:9:A:O2'	24:3K:10:G:N7	2.41	0.51
26:1H:898:C:H5'	26:1H:899:A:OP2	2.10	0.51
26:1H:943:U:OP1	40:78:36:LYS:HG2	2.11	0.51
26:1H:1441:G:H2'	26:1H:1442:G:C8	2.46	0.51
26:1H:2112:G:N2	26:1H:2170:A:H61	2.09	0.51
27:16:40:U:H1'	27:16:45:A:N6	2.25	0.51
29:11:31:LYS:C	29:11:35:LYS:HZ1	2.17	0.51
32:41:56:ALA:O	32:41:60:LEU:N	2.44	0.51
39:68:113:LYS:O	39:68:117:LEU:HG	2.11	0.51
43:A8:51:ALA:HB3	43:A8:73:LEU:HG	1.92	0.51
45:C8:75:ASN:HB2	45:C8:78:THR:OG1	2.10	0.51
1:1G:247:G:OP2	17:8A:100:LYS:N	2.44	0.51
1:1G:345:C:O3'	44:75:41:ARG:NH2	2.44	0.51
1:1G:631:G:H1'	1:1G:632:A:H5'	1.92	0.51
2:12:12:GLU:OE1	2:12:16:HIS:HB2	2.11	0.51
2:12:21:ARG:HB3	2:12:39:ILE:HG12	1.93	0.51
7:62:146:GLU:CD	11:2A:54:ARG:HG2	2.36	0.51
22:1L:59:A:H4'	22:1L:60:A:OP1	2.11	0.51
26:14:320:A:H4'	26:14:322:A:C8	2.45	0.51
26:14:945:A:C4	26:14:2448:A:C2	2.99	0.51
26:14:1991:U:H2'	26:14:1992:G:H5"	1.92	0.51
26:14:2124:G:N1	28:79:217:THR:O	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2485:G:H5”	41:45:46:GLN:HE21	1.76	0.51
32:49:42:GLY:O	32:49:43:LEU:HD13	2.11	0.51
38:15:99:LEU:O	38:15:103:VAL:HG23	2.11	0.51
41:45:78:PRO:HB2	41:45:79:LEU:HG	1.93	0.51
46:95:41:GLY:H	46:95:46:VAL:HG13	1.76	0.51
1:13:37:U:O2’	1:13:500:G:H4’	2.11	0.50
7:6E:150:ALA:HB2	11:2I:50:TYR:CE2	2.45	0.50
10:1I:63:PHE:HA	14:5I:59:ALA:H	1.75	0.50
13:4I:49:THR:HB	13:4I:52:GLU:HG2	1.93	0.50
14:5I:13:THR:N	14:5I:14:PRO:HD2	2.25	0.50
16:7I:71:ARG:O	16:7I:75:ARG:N	2.36	0.50
20:BI:63:ILE:HG22	20:BI:77:ALA:HB1	1.94	0.50
22:1K:6:C:O2’	22:1K:7:G:OP2	2.28	0.50
22:1K:24:A:C5	22:1K:25:G:N7	2.79	0.50
26:1H:960:A:C8	26:1H:962:G:C8	2.98	0.50
26:1H:1420:U:HO2’	26:1H:1421:G:P	2.33	0.50
26:1H:2339:G:H2’	26:1H:2340:G:C8	2.46	0.50
26:1H:2510:C:H2’	26:1H:2511:U:C6	2.46	0.50
26:1H:2785:C:O2’	30:21:64:LYS:HG2	2.11	0.50
35:61:1:MET:N	35:61:20:ASP:OD1	2.28	0.50
43:A8:27:SER:HA	43:A8:88:ASP:HB3	1.92	0.50
47:E8:51:LEU:HD23	47:E8:105:VAL:HG11	1.93	0.50
48:F8:12:VAL:HG22	48:F8:17:ALA:HB2	1.92	0.50
49:G8:55:TYR:N	49:G8:56:PRO:HD3	2.26	0.50
50:H8:69:THR:HA	50:H8:90:VAL:HA	1.92	0.50
55:M8:13:ARG:NH1	55:M8:22:ILE:HG23	2.27	0.50
59:Q8:16:ILE:CD1	59:Q8:59:LYS:HG3	2.41	0.50
1:1G:8:A:C5	4:32:209:ARG:HB2	2.46	0.50
1:1G:328:C:H4’	1:1G:329:A:H5”	1.94	0.50
1:1G:960:U:H4’	1:1G:961:U:C5’	2.41	0.50
2:12:74:LYS:HD2	2:12:166:ASP:HB2	1.93	0.50
9:82:55:ALA:C	9:82:57:GLY:H	2.17	0.50
10:1A:82:ILE:HG22	10:1A:86:MET:SD	2.52	0.50
12:3A:27:LEU:HD22	12:3A:28:LYS:HB3	1.91	0.50
20:BA:46:GLU:HB2	20:BA:48:LYS:HG3	1.91	0.50
24:3L:35:A:O2’	24:3L:36:C:O5’	2.25	0.50
24:3L:77:A:O2’	26:14:2394:C:N3	2.26	0.50
26:14:132:G:H1	26:14:147:U:H3	1.59	0.50
26:14:210:C:OP2	58:L5:29:LYS:NZ	2.43	0.50
26:14:304:G:H2’	26:14:305:U:H6	1.76	0.50
26:14:1154:G:O5’	26:14:1154:G:H8	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2178:C:H4'	28:79:46:LYS:HD3	1.93	0.50
1:13:1468:A:OP1	63:13:1960:HOH:O	2.20	0.50
3:2E:188:LEU:HD13	3:2E:189:ALA:N	2.26	0.50
6:5E:23:LYS:HD3	6:5E:61:LEU:HD21	1.93	0.50
11:2I:58:PRO:HD3	11:2I:89:ALA:HB1	1.92	0.50
11:2I:86:GLY:N	11:2I:112:THR:OG1	2.30	0.50
16:7I:49:LEU:HD12	16:7I:50:LYS:N	2.26	0.50
26:1H:530:G:C5	26:1H:2022:U:H5"	2.47	0.50
26:1H:635:C:O2'	26:1H:639:U:OP1	2.26	0.50
26:1H:666:G:H1'	59:Q8:4:MET:HE2	1.92	0.50
26:1H:721:C:H2'	26:1H:722:A:H8	1.76	0.50
26:1H:1231:G:H2'	26:1H:1232:G:C8	2.47	0.50
26:1H:1510:A:OP1	26:1H:1511:A:H5'	2.11	0.50
26:1H:1607:C:H1'	63:1H:4260:HOH:O	2.10	0.50
26:1H:2093:G:C6	26:1H:2225:A:C8	2.99	0.50
26:1H:2177:C:H5"	28:71:213:TYR:CG	2.45	0.50
29:11:17:THR:CG2	29:11:204:ILE:HA	2.41	0.50
30:21:38:THR:OG1	30:21:40:GLU:HG2	2.11	0.50
30:21:50:GLY:HA2	30:21:77:ILE:HG12	1.92	0.50
30:21:63:LEU:HD23	30:21:63:LEU:O	2.10	0.50
52:J8:17:SER:OG	63:J8:101:HOH:O	2.19	0.50
1:1G:986:A:O2'	19:AA:55:LYS:HG3	2.12	0.50
2:12:144:ARG:HE	2:12:148:TYR:HE2	1.58	0.50
5:42:31:LEU:HD23	5:42:45:PHE:HB2	1.92	0.50
5:42:127:ASN:OD1	5:42:130:ASN:ND2	2.42	0.50
12:3A:28:LYS:HE3	12:3A:33:ARG:HH22	1.76	0.50
24:3L:55:U:H5"	24:3L:56:U:OP2	2.11	0.50
26:14:34:C:O2'	26:14:35:G:H8	1.93	0.50
26:14:972:G:OP2	26:14:974:G:H5"	2.10	0.50
26:14:987:G:O2'	26:14:1000:A:N3	2.36	0.50
26:14:1416:G:HO2'	26:14:1417:C:P	2.33	0.50
26:14:1688:U:O2	26:14:1700:A:H5'	2.11	0.50
26:14:2305:A:H8	32:49:156:ASP:OD1	1.94	0.50
26:14:2542:A:OP1	26:14:2542:A:H4'	2.11	0.50
27:1J:89(A):A:C8	27:1J:90:C:H1'	2.46	0.50
31:39:34:TRP:NE1	40:35:8:PRO:HD3	2.25	0.50
50:D5:59:LEU:HB2	50:D5:61:LEU:HD23	1.93	0.50
52:F5:37:ILE:HD13	52:F5:38:SER:N	2.25	0.50
1:13:157:G:H2'	1:13:158:G:C8	2.46	0.50
1:13:509:A:H5'	4:3E:54:TYR:HD2	1.75	0.50
1:13:686:U:O4	1:13:703:G:H1'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:59:GLU:HB2	2:1E:221:LEU:CD1	2.42	0.50
9:8E:79:LEU:O	9:8E:83:ARG:HG3	2.11	0.50
17:8I:92:ARG:HG2	17:8I:92:ARG:HH11	1.77	0.50
20:BI:74:LYS:HG2	20:BI:75:ASN:H	1.76	0.50
26:1H:51:G:N3	26:1H:119:A:C2	2.79	0.50
26:1H:806:C:OP2	40:78:41:ARG:HD3	2.11	0.50
26:1H:1693:U:O2'	29:11:14:ARG:NH2	2.45	0.50
26:1H:2378:A:H4'	43:A8:23:ARG:NH1	2.26	0.50
37:48:128:ALA:HB1	37:48:132:ARG:HB2	1.92	0.50
42:98:18:LEU:HD11	42:98:22:ARG:CZ	2.41	0.50
44:B8:29:ARG:NH1	44:B8:46:GLU:OE2	2.43	0.50
58:P8:5:TRP:NE1	58:P8:7:PRO:HG3	2.27	0.50
1:1G:45:U:H2'	1:1G:46:G:C8	2.45	0.50
1:1G:474:G:H2'	1:1G:475:G:C8	2.46	0.50
1:1G:892:A:O2'	1:1G:1415:G:H4'	2.12	0.50
1:1G:1489:G:H2'	1:1G:1490:C:O4'	2.11	0.50
4:32:105:VAL:HG13	4:32:110:PHE:HB2	1.92	0.50
5:42:123:LEU:HA	5:42:126:ARG:NH1	2.26	0.50
7:62:18:TYR:HD2	7:62:59:LEU:HD22	1.77	0.50
22:1L:14:A:N6	22:1L:23:G:C5	2.79	0.50
26:14:161:U:C5'	26:14:171:G:H21	2.24	0.50
26:14:194:G:H2'	26:14:195:A:O4'	2.12	0.50
26:14:432:A:H2'	26:14:433:C:O4'	2.12	0.50
26:14:458:G:O2'	58:L5:39:ARG:HD3	2.11	0.50
26:14:674:G:OP2	63:14:3885:HOH:O	2.19	0.50
26:14:751:A:H5'	47:A5:90:ARG:HA	1.93	0.50
26:14:1094:U:H4'	26:14:1097:U:C5	2.45	0.50
26:14:2025:C:OP1	30:29:149:ARG:HD3	2.12	0.50
27:1J:16:G:H2'	27:1J:17:C:C6	2.46	0.50
28:79:28:LEU:HD12	28:79:31:GLU:OE2	2.11	0.50
29:19:148:GLU:HB2	29:19:151:LYS:HD2	1.94	0.50
32:49:114:ILE:HG22	32:49:117:PHE:HB2	1.92	0.50
33:59:41:MET:HB3	33:59:54:ARG:CA	2.40	0.50
35:69:93:THR:HG23	35:69:119:PRO:HG3	1.92	0.50
43:65:3:ARG:HE	43:65:3:ARG:C	2.19	0.50
43:65:92:TYR:HB2	43:65:98:VAL:HG21	1.94	0.50
44:75:53:ARG:NH1	44:75:60:THR:HG23	2.26	0.50
50:D5:27:VAL:O	50:D5:87:ASP:HA	2.12	0.50
1:13:142:G:H2'	1:13:143:A:C8	2.43	0.50
1:13:1160:G:N1	1:13:1177:G:N2	2.60	0.50
2:1E:69:LEU:HD22	2:1E:91:PRO:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:91:PRO:HG3	2:1E:155:LEU:HB2	1.93	0.50
2:1E:215:LEU:O	2:1E:218:ALA:HB3	2.11	0.50
5:4E:76:ILE:HG13	5:4E:93:PRO:HG3	1.93	0.50
15:6I:18:PHE:CE1	15:6I:21:ASP:HB2	2.46	0.50
20:BI:50:GLU:H	20:BI:99:LEU:HD12	1.76	0.50
26:1H:783:A:C8	26:1H:783:A:H3'	2.46	0.50
26:1H:2577:A:H4'	56:N8:2:ALA:O	2.11	0.50
26:1H:2792:G:C6	26:1H:2805:G:C2	2.99	0.50
26:1H:2897:U:H2'	26:1H:2898:U:H5'	1.93	0.50
32:41:11:TYR:HA	32:41:15:VAL:HB	1.94	0.50
34:18:3:LEU:H	34:18:3:LEU:HD22	1.76	0.50
36:38:4:LYS:HZ2	36:38:7:VAL:HG12	1.74	0.50
36:38:50:ARG:HB2	36:38:50:ARG:HH11	1.75	0.50
38:58:96:GLU:C	38:58:98:VAL:H	2.20	0.50
39:68:90:GLN:O	39:68:91:LEU:HB2	2.12	0.50
40:78:64:LYS:HD2	59:Q8:12:LYS:HB3	1.93	0.50
41:88:139:GLU:O	41:88:140:ALA:HB3	2.11	0.50
43:A8:14:VAL:O	43:A8:18:ILE:HD13	2.10	0.50
43:A8:74:ALA:HB1	43:A8:108:GLY:HA3	1.93	0.50
44:B8:30:VAL:HG23	44:B8:83:ILE:HG23	1.92	0.50
1:1G:20:U:H2'	1:1G:21:G:O4'	2.10	0.50
1:1G:980:C:H3'	1:1G:981:U:C6	2.46	0.50
1:1G:1008:C:H42	1:1G:1021:G:H22	1.59	0.50
1:1G:1208:C:H2'	1:1G:1209:C:H6	1.75	0.50
1:1G:1226:C:N4	13:4A:104:ARG:HD2	2.26	0.50
1:1G:1242:C:O3'	21:1B:10:ARG:NH1	2.45	0.50
15:6A:16:ALA:HB1	15:6A:21:ASP:HB3	1.92	0.50
23:2L:37:U:H2'	23:2L:38:A:O4'	2.12	0.50
23:2L:48:U:H1'	23:2L:49:C:O5'	2.12	0.50
26:14:760:G:O6	63:14:3878:HOH:O	2.18	0.50
26:14:1515:C:H2'	26:14:1516:U:H6	1.76	0.50
26:14:1962:C:O2'	26:14:1964:G:OP2	2.30	0.50
26:14:2320:A:C6	26:14:2333:A:C8	2.99	0.50
32:49:60:LEU:HD12	32:49:90:LEU:HD13	1.93	0.50
35:69:62:LYS:HB2	35:69:133:HIS:NE2	2.25	0.50
40:35:8:PRO:HG2	40:35:13:ASN:ND2	2.24	0.50
1:13:636:U:H2'	1:13:637:G:C8	2.46	0.50
1:13:1079:G:C6	1:13:1080:A:N6	2.79	0.50
1:13:1113:C:H2'	1:13:1114:C:H6	1.76	0.50
2:1E:180:LEU:O	2:1E:182:ILE:HG13	2.12	0.50
3:2E:131:ARG:CZ	5:4E:50:GLU:HG3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:6E:46:ALA:HB2	7:6E:117:ALA:HB1	1.92	0.50
20:BI:74:LYS:HD2	20:BI:74:LYS:H	1.75	0.50
26:1H:654:A:H2'	26:1H:654(A):A:C8	2.47	0.50
26:1H:722:A:H2'	26:1H:723:G:H8	1.75	0.50
26:1H:994:C:OP1	45:C8:53:ARG:NH2	2.44	0.50
26:1H:1042:G:H1	26:1H:1113:U:H3	1.59	0.50
29:11:14:ARG:HG2	29:11:15:PHE:CE2	2.47	0.50
37:48:132:ARG:HA	37:48:138:VAL:HG23	1.92	0.50
39:68:106:LEU:HD22	39:68:111:PHE:HB2	1.93	0.50
40:78:21:ARG:HD2	63:78:310:HOH:O	2.11	0.50
42:98:101:ALA:HB2	56:N8:44:THR:HB	1.92	0.50
50:H8:10:ARG:HG3	50:H8:36:LYS:HB3	1.94	0.50
50:H8:59:LEU:HD12	50:H8:60:GLU:H	1.77	0.50
57:O8:14:THR:O	57:O8:49:HIS:HA	2.12	0.50
1:1G:536:C:H2'	1:1G:537:G:C8	2.46	0.50
1:1G:677:U:H3	1:1G:713:G:N2	2.08	0.50
1:1G:855:G:OP2	1:1G:871:U:N3	2.37	0.50
1:1G:1087:G:H1	1:1G:1098:C:H42	1.59	0.50
3:22:190:ARG:NH1	3:22:191:THR:O	2.45	0.50
23:2L:48:U:O2'	23:2L:49:C:OP2	2.27	0.50
26:14:543:C:N4	26:14:550:G:H1	2.03	0.50
26:14:560:C:C5'	45:85:52:ARG:HH21	2.25	0.50
26:14:900:A:H3'	26:14:901:A:C8	2.43	0.50
26:14:2328:A:H2'	26:14:2329:G:C8	2.47	0.50
32:49:117:PHE:HE1	32:49:120:LEU:HD23	1.77	0.50
40:35:49:ARG:O	59:M5:57:ARG:HG3	2.12	0.50
41:45:136:ALA:HB1	41:45:138:ASP:OD1	2.12	0.50
52:F5:87:PRO:O	52:F5:91:LYS:N	2.42	0.50
56:J5:16:ARG:HG3	56:J5:17:ASP:N	2.25	0.50
1:13:278:G:OP2	17:8I:92:ARG:NH2	2.34	0.50
1:13:640:A:O2'	8:7E:115:SER:HB3	2.12	0.50
1:13:718:G:C4	11:2I:116:HIS:CD2	3.00	0.50
1:13:1177:G:H2'	1:13:1178:G:C4	2.46	0.50
2:1E:214:ILE:HG13	2:1E:215:LEU:N	2.25	0.50
3:2E:134:ILE:HD11	3:2E:153:VAL:HG21	1.93	0.50
9:8E:112:LYS:HD2	9:8E:113:LYS:N	2.26	0.50
14:5I:24:CYS:HB2	14:5I:40:CYS:HB3	1.93	0.50
26:1H:1268:A:OP2	63:1H:3962:HOH:O	2.20	0.50
26:1H:1327:C:OP2	63:1H:3960:HOH:O	2.19	0.50
26:1H:1523:U:H2'	26:1H:1524:G:O4'	2.12	0.50
30:21:37:ARG:O	30:21:45:THR:HA	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:54:GLN:O	30:21:55:ASN:HB2	2.12	0.50
32:41:65:GLY:HA2	55:M8:7:PRO:HB2	1.93	0.50
32:41:77:ILE:HG21	32:41:80:PHE:CD2	2.46	0.50
33:51:97:ARG:HB3	33:51:97:ARG:CZ	2.41	0.50
36:38:102:LYS:CE	36:38:103:GLY:H	2.23	0.50
37:48:60:TYR:CE1	37:48:66:THR:HB	2.42	0.50
37:48:82:ALA:HB1	37:48:99:ILE:HD13	1.92	0.50
41:88:110:THR:HG23	41:88:113:GLN:OE1	2.12	0.50
49:G8:85:VAL:O	49:G8:86:ARG:HD3	2.12	0.50
50:H8:109:ALA:N	50:H8:112:ARG:HB2	2.26	0.50
1:1G:428:G:C5	1:1G:430:A:C6	2.99	0.50
1:1G:1125:U:H2'	1:1G:1126:U:C6	2.46	0.50
9:82:71:SER:HA	9:82:74:ILE:HD12	1.93	0.50
26:14:322:A:OP2	31:39:169:ASN:HB2	2.10	0.50
26:14:908:C:OP1	41:45:22:LYS:HD2	2.12	0.50
26:14:2030:A:H2	63:14:3855:HOH:O	1.94	0.50
26:14:2697:G:H2'	26:14:2698:U:O4'	2.12	0.50
30:29:116:VAL:HG11	30:29:138:PRO:HB3	1.93	0.50
31:39:36:VAL:HG11	31:39:183:VAL:HG21	1.93	0.50
31:39:124:LEU:HG	31:39:126:VAL:HG12	1.93	0.50
38:15:59:LYS:HE2	38:15:61:ARG:NH2	2.26	0.50
43:65:16:ASN:ND2	43:65:16:ASN:H	2.09	0.50
43:65:28:VAL:HG11	43:65:98:VAL:HG13	1.92	0.50
45:85:66:ASN:CB	45:85:76:TYR:HB2	2.41	0.50
1:13:1533:C:O2'	1:13:1534:A:OP1	2.23	0.50
4:3E:107:ARG:NH2	4:3E:194:LEU:HD22	2.27	0.50
4:3E:150:GLU:H	4:3E:150:GLU:CD	2.20	0.50
8:7E:22:GLU:O	8:7E:62:TYR:HA	2.12	0.50
10:1I:35:SER:OG	10:1I:73:ASP:HB2	2.12	0.50
17:8I:65:ILE:HG21	17:8I:69:LYS:HE2	1.93	0.50
22:1K:14:A:N7	22:1K:23:G:C2	2.79	0.50
22:1K:15:G:H22	22:1K:49:C:H42	1.58	0.50
26:1H:536:A:H2'	26:1H:537:C:C6	2.47	0.50
26:1H:664:C:H4'	26:1H:941:A:OP1	2.11	0.50
26:1H:1026:U:H4'	26:1H:1027:A:OP1	2.11	0.50
26:1H:1181:C:O2'	26:1H:1182:A:H5'	2.12	0.50
26:1H:1206:G:C6	26:1H:1207:C:C4	2.99	0.50
26:1H:2024:G:O6	63:1H:3916:HOH:O	2.14	0.50
26:1H:2299:G:O6	63:1H:3959:HOH:O	2.19	0.50
26:1H:2314:C:H2'	26:1H:2315:G:H8	1.77	0.50
26:1H:2689:U:P	26:1H:2719:G:H22	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:107:LEU:HD11	32:41:178:PHE:CD1	2.46	0.50
36:38:4:LYS:H	36:38:4:LYS:HD3	1.77	0.50
37:48:128:ALA:HA	37:48:131:ALA:HB3	1.94	0.50
42:98:12:ARG:HD3	42:98:16:HIS:CD2	2.47	0.50
42:98:32:GLY:HA2	42:98:116:LEU:CD1	2.42	0.50
1:1G:142:G:H2'	1:1G:143:A:C8	2.47	0.50
1:1G:1051:C:H2'	1:1G:1052:U:C6	2.47	0.50
3:22:117:ALA:HB2	3:22:200:ALA:HB2	1.93	0.50
4:32:191:ARG:O	4:32:191:ARG:HD3	2.12	0.50
8:72:109:ILE:HG22	8:72:137:VAL:HB	1.92	0.50
10:1A:28:ARG:CZ	10:1A:34:VAL:HB	2.42	0.50
18:9A:32:ARG:HA	18:9A:69:THR:HG21	1.94	0.50
23:2L:2:G:H2'	23:2L:3:C:C6	2.47	0.50
26:14:278:A:H8	26:14:278:A:O5'	1.95	0.50
26:14:1432:C:H2'	26:14:1433:U:O4'	2.09	0.50
26:14:1701:A:H5"	26:14:1702:G:OP2	2.12	0.50
26:14:2062:A:OP1	63:14:3880:HOH:O	2.19	0.50
26:14:2074:U:P	63:14:3804:HOH:O	2.69	0.50
26:14:2611:U:OP1	63:14:3884:HOH:O	2.19	0.50
26:14:2689:U:H4'	26:14:2690:C:H5'	1.94	0.50
29:19:43:ARG:HD2	29:19:43:ARG:N	2.27	0.50
32:49:44:GLY:HA2	32:49:88:ILE:HD11	1.94	0.50
44:75:3:ARG:HG2	44:75:6:LEU:HB2	1.94	0.50
50:D5:40:ASP:HB3	50:D5:43:GLU:HG3	1.93	0.50
50:D5:152:ALA:HB3	50:D5:167:PRO:HA	1.94	0.50
52:F5:92:LYS:O	52:F5:93:GLU:C	2.55	0.50
1:13:280:C:H4'	1:13:281:G:OP2	2.11	0.50
1:13:413:G:N2	1:13:428:G:H1'	2.26	0.50
1:13:952:U:O4	13:4I:104:ARG:HD3	2.12	0.50
4:3E:31:CYS:C	4:3E:33:MET:H	2.19	0.50
4:3E:155:LEU:O	4:3E:158:ILE:N	2.34	0.50
9:8E:125:TYR:HD1	9:8E:126:SER:H	1.60	0.50
17:8I:14:LYS:N	17:8I:14:LYS:HD2	2.27	0.50
22:1K:67:C:H2'	22:1K:68:G:O4'	2.12	0.50
24:3K:8:U:O2	24:3K:13:C:N4	2.45	0.50
26:1H:322:A:P	31:31:168:ARG:HH21	2.34	0.50
26:1H:390:A:OP2	52:J8:26:ARG:NH2	2.45	0.50
26:1H:1169:G:H1	26:1H:1180:C:H42	1.59	0.50
26:1H:2345:G:N3	26:1H:2381:C:H2'	2.27	0.50
26:1H:2636:U:H2'	26:1H:2637:U:C6	2.47	0.50
36:38:39:ALA:HB3	36:38:96:PHE:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:88:54:MET:HE3	41:88:64:ILE:HG21	1.94	0.50
44:B8:107:ASP:C	44:B8:111:ARG:CZ	2.85	0.50
52:J8:83:GLU:C	52:J8:85:LEU:H	2.20	0.50
1:1G:278:G:N7	17:8A:92:ARG:NH2	2.60	0.50
3:22:47:LEU:HD21	3:22:70:VAL:HG22	1.93	0.50
5:42:41:VAL:O	5:42:67:VAL:HG12	2.12	0.50
9:82:29:ASN:HB2	9:82:65:VAL:HG12	1.94	0.50
10:1A:38:ILE:HB	10:1A:71:LEU:HB3	1.94	0.50
17:8A:45:HIS:O	17:8A:73:VAL:HG12	2.11	0.50
26:14:2068:U:N3	26:14:2430:A:H2	2.08	0.50
26:14:2343:C:O2'	26:14:2373:G:O2'	2.06	0.50
26:14:2693:A:H2'	26:14:2694:G:C8	2.45	0.50
27:1J:70:C:H2'	27:1J:71:C:C6	2.43	0.50
29:19:77:ALA:HB2	29:19:97:TYR:CG	2.47	0.50
32:49:53:LEU:HD22	32:49:87:PRO:HB2	1.94	0.50
51:E5:80:HIS:HB3	51:E5:82:ARG:HH21	1.76	0.50
1:13:200:G:H1	1:13:217:C:N4	2.03	0.50
1:13:645:C:H5"	63:13:2218:HOH:O	2.12	0.50
4:3E:108:LEU:HD23	4:3E:110:PHE:CE1	2.46	0.50
6:5E:67:MET:HE1	6:5E:75:LEU:HD12	1.94	0.50
19:AI:40:ILE:HG21	19:AI:66:MET:O	2.11	0.50
20:BI:14:LYS:HA	20:BI:17:ARG:HE	1.76	0.50
26:1H:529:A:H4'	26:1H:530:G:H5'	1.94	0.50
26:1H:1101:U:H2'	26:1H:1102:C:H6	1.75	0.50
26:1H:2001:A:H2'	26:1H:2002:G:C8	2.47	0.50
26:1H:2822:G:O2'	26:1H:2824:C:OP2	2.26	0.50
27:16:71:C:C2	27:16:72:G:C8	3.00	0.50
27:16:94:C:H2'	27:16:95:U:H6	1.77	0.50
29:11:199:ALA:C	29:11:201:HIS:H	2.19	0.50
29:11:237:GLU:O	29:11:238:GLY:C	2.55	0.50
36:38:16:ASN:O	36:38:22:GLY:HA2	2.12	0.50
1:1G:373:A:N3	1:1G:374:A:C8	2.80	0.50
1:1G:592:G:H1	1:1G:647:C:H42	1.58	0.50
1:1G:717:C:H6	1:1G:717:C:H5"	1.77	0.50
1:1G:992:U:H4'	63:1G:1955:HOH:O	2.11	0.50
12:3A:70:ILE:HG21	12:3A:75:HIS:HD2	1.77	0.50
13:4A:86:CYS:O	13:4A:89:GLY:N	2.32	0.50
22:1L:14:A:O2'	22:1L:15:G:C8	2.64	0.50
26:14:55:G:H2'	26:14:56:A:H8	1.77	0.50
26:14:666:G:H5"	40:35:47:ASP:O	2.12	0.50
26:14:958:U:O2	27:1J:89(A):A:O2'	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:993:G:N3	46:95:89:GLN:NE2	2.41	0.50
26:14:2702:U:H6	26:14:2702:U:OP1	1.95	0.50
30:29:147:PRO:HB2	30:29:149:ARG:HG3	1.94	0.50
31:39:65:TRP:CZ3	31:39:72:ARG:HB3	2.46	0.50
31:39:89:VAL:O	31:39:90:PHE:C	2.55	0.50
51:E5:50:ASN:O	51:E5:62:LEU:HB2	2.11	0.50
52:F5:92:LYS:HA	52:F5:95:LEU:HD22	1.94	0.50
2:1E:82:ARG:HG3	2:1E:92:TYR:CZ	2.47	0.49
9:8E:10:ARG:HG3	9:8E:75:ASP:HB3	1.94	0.49
12:3I:84:LEU:HB2	12:3I:105:TYR:CE2	2.47	0.49
24:3K:8:U:O5'	24:3K:50:G:H5'	2.12	0.49
26:1H:46:C:OP2	26:1H:215:G:H2'	2.11	0.49
26:1H:297:C:H5"	49:G8:86:ARG:CG	2.41	0.49
26:1H:713:G:H2'	26:1H:714:U:C6	2.47	0.49
26:1H:1045:A:C2	26:1H:1111:A:C5	3.00	0.49
26:1H:1366:A:H2'	26:1H:1367:A:H5'	1.94	0.49
26:1H:1639:U:O2'	26:1H:1640:C:H5'	2.11	0.49
26:1H:1796:U:H2'	26:1H:1797:C:C6	2.47	0.49
26:1H:2038:G:H2'	26:1H:2039:C:C6	2.47	0.49
30:21:65:GLY:HA2	30:21:70:ALA:CB	2.41	0.49
36:38:29:TYR:HB3	36:38:31:GLY:H	1.76	0.49
38:58:45:ASN:OD1	38:58:46:VAL:HG23	2.12	0.49
40:78:64:LYS:HA	59:Q8:13:ARG:HB3	1.94	0.49
41:88:109:VAL:HG12	41:88:110:THR:O	2.11	0.49
42:98:105:ARG:C	42:98:107:ASP:H	2.19	0.49
48:F8:65:ARG:O	48:F8:66:LEU:HD12	2.12	0.49
1:1G:861:G:N2	1:1G:872:A:H2	2.10	0.49
1:1G:1338:G:C6	1:1G:1339:A:C6	3.00	0.49
2:12:114:ARG:O	2:12:118:LEU:HG	2.12	0.49
4:32:32:ALA:HA	4:32:35:ARG:HB3	1.93	0.49
13:4A:8:GLU:CG	13:4A:9:ILE:H	2.25	0.49
17:8A:88:TYR:CE1	17:8A:92:ARG:HD2	2.47	0.49
22:1L:65:C:H2'	22:1L:66:C:C6	2.47	0.49
26:14:11:G:H2'	26:14:12:U:C6	2.47	0.49
26:14:580:C:H2'	26:14:581:C:C6	2.47	0.49
26:14:748:G:O6	47:A5:90:ARG:NH1	2.45	0.49
26:14:2582:G:OP2	63:14:3727:HOH:O	2.19	0.49
26:14:2712:U:H1'	26:14:2712(A):A:C8	2.47	0.49
26:14:2807:G:H22	26:14:2892:A:H62	1.58	0.49
30:29:14:ILE:HD11	30:29:173:VAL:HG11	1.93	0.49
31:39:167:ALA:HB1	31:39:173:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:59:24:VAL:HG11	33:59:72:ILE:HD13	1.94	0.49
33:59:26:VAL:HG13	33:59:27:LYS:H	1.76	0.49
33:59:75:ALA:O	33:59:79:VAL:HG22	2.12	0.49
40:35:3:LEU:H	40:35:3:LEU:HD12	1.76	0.49
46:95:18:LEU:O	46:95:96:ILE:HG12	2.12	0.49
1:13:160:A:C5	1:13:344:A:N7	2.79	0.49
1:13:431:A:H2'	1:13:432:A:O4'	2.12	0.49
1:13:584:G:C5'	17:8I:91:ARG:HH21	2.25	0.49
1:13:945:G:C2	1:13:946:A:C8	3.00	0.49
1:13:1028(A):C:H42	1:13:1032(A):G:H1	1.60	0.49
1:13:1118:C:P	9:8E:104:ARG:HH11	2.35	0.49
1:13:1174:G:H2'	1:13:1175:G:C8	2.46	0.49
7:6E:18:TYR:CG	7:6E:59:LEU:HD12	2.47	0.49
8:7E:106:GLY:O	8:7E:122:ARG:NH2	2.31	0.49
13:4I:23:TYR:HB3	13:4I:67:GLU:HB2	1.93	0.49
16:7I:49:LEU:HD12	16:7I:50:LYS:H	1.77	0.49
17:8I:88:TYR:CD1	17:8I:89:LEU:HD22	2.45	0.49
23:2K:16:C:H2'	23:2K:17:C:C5	2.47	0.49
26:1H:2751:G:O5'	26:1H:2751:G:C8	2.65	0.49
29:11:68:LYS:HB3	29:11:70:TRP:CE3	2.47	0.49
33:51:86:GLU:HG3	33:51:87:LEU:H	1.78	0.49
37:48:101:TRP:CD1	37:48:101:TRP:N	2.79	0.49
40:78:68:GLN:HG2	59:Q8:12:LYS:HD3	1.93	0.49
46:D8:21:ARG:HG2	46:D8:91:TYR:CE2	2.47	0.49
50:H8:7:ALA:HB2	50:H8:59:LEU:HD13	1.92	0.49
50:H8:126:VAL:HG12	50:H8:163:LEU:HA	1.94	0.49
53:K8:15:LYS:HD3	53:K8:67:LYS:NZ	2.27	0.49
1:1G:410:G:N1	1:1G:429:U:O2	2.44	0.49
3:22:149:ALA:HA	3:22:201:TYR:O	2.12	0.49
26:14:221:A:N6	26:14:265:A:C8	2.80	0.49
26:14:483:A:O3'	49:C5:49:VAL:HG23	2.12	0.49
26:14:567:A:OP2	40:35:29:LYS:NZ	2.42	0.49
26:14:994:C:OP1	45:85:53:ARG:NH2	2.45	0.49
27:1J:116:G:H5"	43:65:55:ALA:HB2	1.93	0.49
33:59:88:LEU:H	33:59:88:LEU:HD12	1.75	0.49
43:65:53:SER:O	43:65:54:LEU:HD23	2.12	0.49
48:B5:26:TYR:HE2	48:B5:83:VAL:HG11	1.76	0.49
1:13:247:G:C2	1:13:248:C:C6	3.00	0.49
1:13:757:U:OP1	1:13:822:C:O2'	2.27	0.49
1:13:1133:G:H2'	1:13:1134:G:H8	1.74	0.49
4:3E:108:LEU:HB3	4:3E:110:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:6E:28:ASN:HA	7:6E:31:MET:HE2	1.94	0.49
10:1I:48:THR:CA	10:1I:62:HIS:HB3	2.39	0.49
23:2K:47:7MG:O2'	23:2K:48:U:OP2	2.22	0.49
26:1H:1050:A:N7	33:51:3:ARG:NH1	2.60	0.49
26:1H:1051:G:OP2	26:1H:1051:G:H8	1.95	0.49
26:1H:1466:G:H2'	26:1H:1547:C:N4	2.27	0.49
26:1H:2098:U:H2'	26:1H:2099:U:O4'	2.12	0.49
26:1H:2209:C:O2	26:1H:2216:G:C2	2.65	0.49
27:16:43:C:P	32:41:67:LYS:HZ1	2.35	0.49
27:16:78:A:H2'	27:16:79:C:O4'	2.12	0.49
28:71:14:VAL:HG23	28:71:221:SER:HB3	1.93	0.49
28:71:27:HIS:CG	28:71:182:PRO:HB2	2.47	0.49
32:41:67:LYS:HE2	55:M8:6:HIS:CE1	2.48	0.49
40:78:113:LYS:HA	40:78:129:ALA:O	2.12	0.49
53:K8:42:GLY:O	53:K8:44:LEU:N	2.45	0.49
1:1G:108:G:P	1:1G:326:G:H22	2.35	0.49
1:1G:115:G:H4'	1:1G:116:A:O5'	2.12	0.49
1:1G:407:G:O2'	4:32:116:GLN:HG3	2.12	0.49
1:1G:646:U:H2'	1:1G:647:C:C6	2.47	0.49
1:1G:714:G:H2'	1:1G:715:A:C8	2.47	0.49
1:1G:980:C:H5'	1:1G:981:U:C5	2.48	0.49
1:1G:1227:A:P	13:4A:111:LYS:HZ3	2.35	0.49
2:12:42:ILE:HG13	2:12:43:ASP:N	2.27	0.49
5:42:60:TYR:O	5:42:64:ARG:HG2	2.12	0.49
6:52:17:SER:O	6:52:21:LEU:HB2	2.13	0.49
26:14:329:G:O6	49:C5:19:LYS:HB3	2.12	0.49
26:14:579:G:H2'	26:14:580:C:H6	1.76	0.49
26:14:579:G:H2'	26:14:580:C:C6	2.46	0.49
26:14:603:A:H8	26:14:604:G:H1'	1.77	0.49
26:14:1268:A:H2'	26:14:1269:A:O4'	2.11	0.49
26:14:1384:A:N3	26:14:1405:U:H1'	2.27	0.49
26:14:1717:G:H1	26:14:1742:C:H42	1.61	0.49
26:14:1858:G:O6	63:14:3857:HOH:O	2.15	0.49
26:14:2151:G:H2'	26:14:2152:G:O4'	2.13	0.49
39:25:113:LYS:NZ	63:25:301:HOH:O	2.44	0.49
40:35:126:VAL:HA	40:35:145:PRO:HG2	1.95	0.49
44:75:61:PHE:CE1	44:75:76:PHE:HB2	2.47	0.49
50:D5:44:PHE:O	50:D5:48:PHE:N	2.42	0.49
1:13:73:G:H2'	1:13:74:C:C6	2.47	0.49
1:13:429:U:O3'	4:3E:22:LYS:HE3	2.12	0.49
1:13:626:U:H2'	1:13:627:G:H8	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:626:U:H2'	1:13:627:G:C8	2.48	0.49
1:13:767:A:H2'	1:13:768:A:O4'	2.13	0.49
1:13:1335:C:H1'	63:13:1928:HOH:O	2.10	0.49
2:1E:97:TRP:HH2	2:1E:176:GLU:HG3	1.77	0.49
18:9I:58:LEU:HD23	18:9I:62:GLU:HB3	1.94	0.49
23:2K:20:G:H4'	23:2K:21:U:OP1	2.13	0.49
26:1H:226:G:H21	26:1H:228:A:H2	1.61	0.49
26:1H:1442:G:C2	26:1H:1550:C:O2	2.66	0.49
35:61:3:VAL:HG12	35:61:38:LEU:HA	1.94	0.49
35:61:47:LEU:O	35:61:51:ILE:HG13	2.12	0.49
36:38:16:ASN:N	36:38:19:ARG:HB3	2.28	0.49
36:38:45:LYS:O	36:38:46:GLN:HG2	2.11	0.49
41:88:51:ARG:O	41:88:55:VAL:HG13	2.13	0.49
50:H8:120:ILE:HB	50:H8:171:ILE:HA	1.94	0.49
55:M8:23:GLU:O	55:M8:25:TYR:N	2.38	0.49
58:P8:24:THR:HG23	58:P8:27:GLY:H	1.77	0.49
1:1G:87:A:H4'	1:1G:88:C:OP1	2.10	0.49
12:3A:104:VAL:O	12:3A:105:TYR:O	2.29	0.49
15:6A:33:THR:HG21	15:6A:85:LEU:HD22	1.95	0.49
26:14:1069:A:C8	26:14:1073:A:C5	3.01	0.49
26:14:2027:G:H2'	26:14:2028:U:O4'	2.13	0.49
26:14:2148:G:H2'	26:14:2149:G:C8	2.43	0.49
26:14:2377:A:H2'	26:14:2378:A:C8	2.47	0.49
26:14:2489:G:C6	26:14:2490:G:C6	3.01	0.49
26:14:2748:A:H2'	26:14:2749:A:H8	1.78	0.49
27:1J:11:C:H3'	27:1J:12:C:H6	1.77	0.49
30:29:61:ARG:HA	30:29:63:LEU:HD22	1.95	0.49
31:39:165:ARG:HB3	31:39:165:ARG:HH11	1.77	0.49
46:95:21:ARG:NH2	46:95:65:GLY:O	2.45	0.49
51:E5:72:ARG:HH21	51:E5:75:LEU:CD1	2.26	0.49
58:L5:26:GLY:O	58:L5:30:VAL:HG23	2.12	0.49
1:13:223:U:H2'	1:13:224:C:H6	1.77	0.49
1:13:674:G:H2'	1:13:675:A:C8	2.47	0.49
1:13:881:G:P	12:3I:12:ARG:HH22	2.36	0.49
1:13:976:G:OP1	14:5I:32:SER:N	2.38	0.49
17:8I:100:LYS:CB	17:8I:101:ARG:HE	2.26	0.49
20:BI:82:SER:OG	20:BI:86:ARG:HD2	2.12	0.49
26:1H:412:A:H3'	26:1H:413:C:H6	1.76	0.49
26:1H:547:A:H2'	26:1H:548:A:N7	2.27	0.49
26:1H:654(Q):C:O2'	26:1H:654(R):C:OP1	2.27	0.49
26:1H:973:A:O4'	26:1H:1188:U:C6	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1266:G:O2'	26:1H:2012:G:O6	2.29	0.49
26:1H:1580:A:H5'	26:1H:1581:G:OP2	2.11	0.49
26:1H:1630(A):C:H2'	63:1H:3787:HOH:O	2.12	0.49
26:1H:1845:G:N7	63:1H:4105:HOH:O	2.35	0.49
26:1H:1932:A:OP2	63:1H:3964:HOH:O	2.20	0.49
26:1H:2298:A:H62	26:1H:2318:G:H8	1.59	0.49
26:1H:2438:U:O3'	26:1H:2439:A:H3'	2.13	0.49
29:11:35:LYS:NZ	29:11:35:LYS:HB3	2.21	0.49
29:11:233:HIS:HA	63:11:405:HOH:O	2.12	0.49
37:48:54:PRO:HD2	37:48:72:PRO:HB3	1.93	0.49
38:58:55:VAL:HB	38:58:126:PRO:HA	1.93	0.49
45:C8:108:GLU:OE1	45:C8:112:ARG:NH1	2.46	0.49
50:H8:53:ILE:HG22	50:H8:71:VAL:HG13	1.94	0.49
1:1G:191(F):U:H2'	1:1G:191:G:H8	1.78	0.49
1:1G:345:C:H5'	1:1G:346:G:C5	2.47	0.49
1:1G:1216:G:H2'	1:1G:1217:C:C6	2.47	0.49
2:12:166:ASP:CG	2:12:169:LYS:HB2	2.36	0.49
5:42:68:GLU:HG3	5:42:68:GLU:O	2.12	0.49
13:4A:40:ASN:HD22	13:4A:43:THR:HB	1.77	0.49
17:8A:66:SER:OG	17:8A:67:LYS:O	2.30	0.49
24:3L:52:A:N6	24:3L:64:U:H3	2.11	0.49
24:3L:57:C:C6	26:14:2169:A:H1'	2.47	0.49
26:14:68:G:H2'	26:14:69:C:C6	2.46	0.49
26:14:831:G:N2	40:35:53:GLY:O	2.45	0.49
26:14:1027:A:C2	26:14:2488:A:H5'	2.47	0.49
26:14:1794:U:O2'	26:14:1795:C:H5'	2.13	0.49
26:14:1938:A:OP2	63:14:3888:HOH:O	2.20	0.49
26:14:2698:U:H2'	26:14:2699:C:C6	2.48	0.49
29:19:268:ARG:O	29:19:268:ARG:HG2	2.12	0.49
32:49:66:GLN:HE21	32:49:94:LEU:HD23	1.76	0.49
40:35:88:LEU:C	40:35:90:ARG:H	2.20	0.49
48:B5:12:VAL:HG22	48:B5:27:THR:HB	1.94	0.49
53:G5:25:VAL:HG12	53:G5:60:LEU:HD23	1.93	0.49
58:L5:31:LEU:HD22	58:L5:42:LEU:HD13	1.94	0.49
1:13:46:G:H2'	1:13:366:C:H5	1.77	0.49
1:13:186:C:H2'	1:13:186(A):C:C6	2.48	0.49
1:13:503:C:O2	1:13:542:G:N2	2.38	0.49
1:13:1201:A:H5'	63:13:2010:HOH:O	2.12	0.49
17:8I:76:LEU:HD11	17:8I:79:SER:HB3	1.94	0.49
26:1H:729:G:C4	26:1H:1775:U:O2	2.66	0.49
26:1H:1448:G:H1'	26:1H:1528:A:H62	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1907:G:H2'	26:1H:1908:C:C6	2.47	0.49
26:1H:2510:C:H2'	26:1H:2511:U:H6	1.77	0.49
27:16:95:U:H2'	27:16:96:G:H8	1.76	0.49
31:31:20:LEU:HD12	31:31:21:ALA:H	1.78	0.49
32:41:41:GLN:NE2	32:41:154:GLY:O	2.41	0.49
37:48:112:MET:HE2	37:48:118:THR:O	2.12	0.49
45:C8:47:TYR:CD1	45:C8:47:TYR:C	2.91	0.49
56:N8:2:ALA:O	56:N8:3:LYS:HD2	2.12	0.49
1:1G:193:C:H2'	1:1G:194:C:H6	1.78	0.49
1:1G:804:U:H5"	1:1G:805:C:OP2	2.12	0.49
1:1G:1095:U:H5"	1:1G:1109:C:O2	2.12	0.49
26:14:335:C:H2'	26:14:336:C:H6	1.76	0.49
26:14:817:C:H5	63:14:4755:HOH:O	1.95	0.49
26:14:1198:U:H2'	26:14:1199:U:C6	2.47	0.49
26:14:1310:G:OP2	58:L5:9:ARG:NE	2.35	0.49
26:14:1914:C:H2'	26:14:1915:U:O4'	2.12	0.49
26:14:2114:A:H5"	26:14:2117:A:H5'	1.94	0.49
26:14:2785:C:H2'	26:14:2786:U:O4'	2.12	0.49
41:45:91:GLU:HG3	41:45:92:GLY:N	2.25	0.49
47:A5:65:LEU:HD13	47:A5:68:ARG:HD3	1.93	0.49
48:B5:83:VAL:HG22	48:B5:87:GLN:HB2	1.95	0.49
51:E5:21:LEU:HD21	51:E5:41:ARG:HH12	1.76	0.49
1:13:11:G:C5	1:13:12:U:C5	3.00	0.49
1:13:618:C:H5"	1:13:619:U:H5"	1.95	0.49
1:13:1112:C:O2	3:2E:179:ARG:HG3	2.13	0.49
1:13:1234:C:H2'	1:13:1235:U:C6	2.47	0.49
1:13:1466:C:OP2	63:13:1962:HOH:O	2.20	0.49
4:3E:173:TRP:HB3	4:3E:187:ARG:NH1	2.28	0.49
5:4E:42:GLY:HA2	5:4E:65:ASN:O	2.12	0.49
22:1K:22:A:C6	22:1K:47:7MG:C6	3.01	0.49
26:1H:723:G:H2'	26:1H:724:U:O4'	2.13	0.49
26:1H:1265:A:H8	26:1H:1265:A:OP1	1.95	0.49
26:1H:1557:C:OP2	26:1H:1558:A:O2'	2.23	0.49
26:1H:1786:A:C2	26:1H:2606:C:H1'	2.43	0.49
26:1H:2579:C:H2'	26:1H:2580:U:O4'	2.13	0.49
28:71:190:ARG:HG2	28:71:194:ARG:NH2	2.28	0.49
30:21:49:LEU:HD21	30:21:91:VAL:HG21	1.94	0.49
31:31:192:LEU:CD2	31:31:194:MET:HE2	2.42	0.49
36:38:27:VAL:HG13	36:38:109:SER:C	2.38	0.49
36:38:87:VAL:O	36:38:87:VAL:HG13	2.13	0.49
51:I8:10:THR:HG23	51:I8:10:THR:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:K8:16:LEU:O	53:K8:16:LEU:HD23	2.13	0.49
1:1G:1247:U:H2'	1:1G:1248:A:O4'	2.13	0.49
2:12:69:LEU:HB3	2:12:162:ILE:HG22	1.95	0.49
7:62:143:ARG:HD2	7:62:143:ARG:C	2.37	0.49
9:82:5:TYR:HA	9:82:17:VAL:O	2.11	0.49
10:1A:50:ILE:HA	10:1A:60:ARG:HB3	1.94	0.49
17:8A:83:ASP:OD1	17:8A:84:LEU:N	2.46	0.49
19:AA:58:VAL:HG22	19:AA:60:VAL:HG13	1.95	0.49
22:1L:33:RSP:S2	22:1L:33:RSP:H2'	2.52	0.49
26:14:510:C:H2'	26:14:511:U:O4'	2.13	0.49
26:14:1251:C:H5	63:14:4270:HOH:O	1.95	0.49
26:14:1414:G:H1	26:14:1588:C:H42	1.60	0.49
28:79:29:VAL:CG1	28:79:185:LEU:HD13	2.42	0.49
31:39:18:ARG:NH2	31:39:20:LEU:HB2	2.28	0.49
46:95:22:VAL:HG22	46:95:23:GLU:H	1.76	0.49
46:95:37:VAL:HG23	46:95:38:LEU:HD13	1.93	0.49
52:F5:91:LYS:O	52:F5:92:LYS:C	2.54	0.49
1:13:113:G:H2'	1:13:114:U:C6	2.48	0.49
1:13:719:C:O2'	18:9I:49:LYS:HB3	2.12	0.49
1:13:1053:G:N7	1:13:1199:U:H3'	2.28	0.49
8:7E:58:TYR:O	8:7E:59:LEU:HD23	2.13	0.49
8:7E:86:ILE:HG21	8:7E:133:LEU:HD22	1.93	0.49
9:8E:10:ARG:NH2	9:8E:105:ASP:OD2	2.45	0.49
10:1I:6:ILE:HG22	10:1I:98:ILE:HG23	1.95	0.49
11:2I:21:ILE:HD13	11:2I:94:ALA:HB1	1.94	0.49
26:1H:479:A:H4'	26:1H:480:A:OP1	2.13	0.49
26:1H:805:G:OP2	40:78:41:ARG:HG2	2.12	0.49
26:1H:1855:G:H1	26:1H:1887:C:H42	1.59	0.49
26:1H:2065:C:H2'	26:1H:2066:C:C6	2.48	0.49
29:11:48:ARG:O	29:11:50:THR:HG23	2.13	0.49
31:31:34:TRP:HD1	40:78:6:LEU:HB3	1.78	0.49
36:38:26:LEU:HB3	36:38:112:LEU:HB3	1.93	0.49
37:48:83:GLY:H	37:48:99:ILE:CG2	2.25	0.49
39:68:59:LYS:NZ	39:68:89:ASN:OD1	2.33	0.49
41:88:67:ARG:NH1	41:88:105:GLU:OE1	2.39	0.49
50:H8:10:ARG:NE	50:H8:37:VAL:O	2.43	0.49
1:1G:32:A:C2	1:1G:33:A:C4	3.01	0.49
10:1A:78:ASN:C	10:1A:80:LYS:N	2.71	0.49
22:1L:26:U:H2'	22:1L:27:A:H8	1.78	0.49
24:3L:9:A:H5'	24:3L:11:C:OP2	2.13	0.49
26:14:270(L):U:O2	35:69:50:ARG:HD3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:435:C:N3	63:14:4030:HOH:O	2.35	0.49
26:14:2262:U:OP2	51:E5:19:LYS:HD3	2.12	0.49
27:1J:48:A:O2'	43:65:95:HIS:HE1	1.95	0.49
32:49:75:LYS:HZ1	32:49:77:ILE:HD11	1.77	0.49
46:95:51:VAL:HG12	46:95:52:VAL:N	2.27	0.49
1:13:377:G:H5'	16:7I:5:ARG:HH12	1.78	0.49
1:13:390:C:O2'	16:7I:28:ARG:NH2	2.44	0.49
1:13:724:G:C2	1:13:725:G:C8	3.00	0.49
2:1E:209:ARG:NH1	2:1E:239:VAL:HG22	2.27	0.49
7:6E:61:VAL:HG12	7:6E:124:LEU:HD22	1.93	0.49
7:6E:62:PHE:HD1	7:6E:124:LEU:HD11	1.77	0.49
12:3I:24:VAL:HB	12:3I:27:LEU:HD12	1.95	0.49
13:4I:49:THR:HG22	13:4I:51:ALA:H	1.78	0.49
26:1H:2016:U:O2	56:N8:7:PRO:HG2	2.11	0.49
26:1H:2126:A:H62	26:1H:2163:C:HO2'	1.45	0.49
26:1H:2275:C:H5'	26:1H:2275:C:C6	2.45	0.49
26:1H:2691:C:H42	26:1H:2718:G:H1	1.60	0.49
63:1H:4103:HOH:O	41:88:23:GLY:HA2	2.12	0.49
30:21:103:ASP:OD1	30:21:201:THR:HG23	2.12	0.49
32:41:84:LYS:O	32:41:84:LYS:HD3	2.13	0.49
40:78:122:PRO:HA	40:78:142:GLY:HA3	1.94	0.49
53:K8:14:ARG:HG2	53:K8:63:VAL:HG13	1.94	0.49
1:1G:34:C:H2'	1:1G:35:G:C8	2.48	0.49
1:1G:91:C:H3'	1:1G:92:G:H8	1.76	0.49
1:1G:141:A:H1'	1:1G:182:U:O2	2.13	0.49
1:1G:792:A:H4'	1:1G:793:U:O5'	2.11	0.49
1:1G:1126:U:N3	1:1G:1281:U:O4'	2.46	0.49
7:62:129:GLU:OE2	7:62:131:LYS:NZ	2.46	0.49
9:82:24:GLY:O	9:82:26:VAL:HG23	2.13	0.49
10:1A:21:GLN:O	10:1A:21:GLN:HG2	2.12	0.49
13:4A:32:GLU:O	13:4A:36:LYS:N	2.40	0.49
20:BA:97:ALA:HB3	20:BA:99:LEU:HD11	1.95	0.49
24:3L:2:C:H2'	24:3L:3:A:C8	2.48	0.49
26:14:468:G:N7	58:L5:39:ARG:NH2	2.61	0.49
26:14:911:A:C5	41:45:9:TYR:CD2	3.01	0.49
30:29:32:PRO:O	30:29:34:VAL:HG23	2.13	0.49
35:69:45:LYS:HA	35:69:48:GLU:HB3	1.93	0.49
35:69:127:VAL:HA	35:69:138:ILE:O	2.12	0.49
40:35:122:PRO:CA	40:35:141:ALA:HB1	2.43	0.49
40:35:128:HIS:HA	40:35:147:LEU:HB3	1.95	0.49
41:45:3:MET:HB2	41:45:93:TYR:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:65:67:ARG:HB2	43:65:67:ARG:HH11	1.78	0.49
44:75:3:ARG:HG2	44:75:6:LEU:H	1.78	0.49
45:85:95:LEU:HD13	46:95:4:ILE:HG23	1.95	0.49
1:13:339:C:OP2	39:68:97:ARG:NH1	2.38	0.49
5:4E:151:LEU:HD21	8:7E:77:GLU:OE2	2.13	0.49
15:6I:14:GLU:HG3	15:6I:15:PHE:CD2	2.48	0.49
24:3K:18:G:H21	24:3K:59:A:H5'	1.78	0.49
26:1H:276:A:C8	26:1H:278:A:N1	2.81	0.49
26:1H:654(B):C:H2'	26:1H:654(C):G:O4'	2.13	0.49
36:38:11:ALA:HA	36:38:58:LEU:HD22	1.94	0.49
37:48:71:THR:C	37:48:73:PRO:HD3	2.37	0.49
49:G8:89:PHE:CE1	49:G8:91:GLU:HB3	2.48	0.49
50:H8:117:LEU:HD12	50:H8:118:GLN:N	2.28	0.49
1:1G:49:U:C2	1:1G:361:G:N2	2.81	0.49
1:1G:574:A:P	63:1G:1861:HOH:O	2.70	0.49
1:1G:986:A:H1'	19:AA:55:LYS:HA	1.94	0.49
1:1G:1260:C:H3'	1:1G:1260:C:H6	1.78	0.49
1:1G:1490:C:H2'	1:1G:1491:G:O4'	2.13	0.49
10:1A:54:PHE:CE1	10:1A:55:LYS:HE3	2.48	0.49
26:14:289:A:H3'	26:14:290:G:H8	1.77	0.49
26:14:952:G:C6	26:14:966:G:C6	3.01	0.49
26:14:1275:A:N1	26:14:1295:C:O2'	2.44	0.49
26:14:2143:C:H42	26:14:2148:G:H1	1.60	0.49
26:14:2649:U:H3	26:14:2671:A:H61	1.59	0.49
26:14:2788:C:P	30:29:61:ARG:HH12	2.36	0.49
28:79:181:PRO:HD2	28:79:184:LYS:HD2	1.95	0.49
28:79:183:GLU:H	28:79:183:GLU:HG2	1.39	0.49
29:19:132:PRO:HG3	29:19:190:TYR:CE1	2.47	0.49
30:29:13:ARG:HA	30:29:21:VAL:O	2.13	0.49
44:75:54:ARG:HA	44:75:59:THR:HB	1.95	0.49
46:95:61:VAL:HG12	46:95:63:GLY:H	1.78	0.49
51:E5:11:ARG:O	51:E5:14:ARG:NH2	2.45	0.49
1:13:1132:C:H2'	1:13:1133:G:C8	2.42	0.48
1:13:1317:C:H5"	1:13:1318:A:OP2	2.13	0.48
1:13:1455:G:H5"	20:BI:31:SER:HB2	1.95	0.48
4:3E:36:ARG:O	4:3E:38:TYR:N	2.45	0.48
6:5E:3:ARG:HD3	6:5E:38:GLU:OE1	2.13	0.48
12:3I:10:LEU:HB3	17:8I:32:TYR:CD2	2.48	0.48
24:3K:3:A:H2'	24:3K:4:U:O4'	2.12	0.48
26:1H:739:G:P	63:1H:3870:HOH:O	2.68	0.48
26:1H:863:A:H2'	26:1H:864:G:H8	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1221:C:H2'	26:1H:1222:C:C6	2.45	0.48
26:1H:1657:C:H2'	26:1H:1658:C:H6	1.76	0.48
26:1H:2287:A:C2	26:1H:2346:A:C2	3.01	0.48
26:1H:2780:G:P	38:58:118:LYS:HE2	2.53	0.48
29:11:29:PRO:C	29:11:30:GLU:HG2	2.31	0.48
42:98:50:HIS:O	42:98:54:LEU:HD22	2.13	0.48
55:M8:10:VAL:HG22	55:M8:11:PRO:HD2	1.95	0.48
1:1G:186(F):C:H5"	1:1G:187:C:OP2	2.12	0.48
1:1G:1170:A:C2	1:1G:1171:G:H1'	2.48	0.48
3:22:36:ASP:OD1	3:22:57:ILE:HG21	2.13	0.48
4:32:138:TYR:HE1	4:32:140:VAL:HA	1.78	0.48
7:62:102:ARG:O	7:62:106:GLN:HG2	2.14	0.48
8:72:33:GLU:HG3	8:72:48:TYR:CE2	2.47	0.48
11:2A:79:SER:OG	11:2A:106:LYS:HD2	2.13	0.48
12:3A:70:ILE:CD1	12:3A:77:LEU:HD12	2.42	0.48
26:14:14:A:H5"	26:14:15:G:OP2	2.13	0.48
26:14:68:G:H2'	26:14:69:C:O4'	2.12	0.48
26:14:270(L):U:O2	35:69:50:ARG:NH1	2.42	0.48
26:14:1418:G:H2'	26:14:1579:A:H62	1.78	0.48
26:14:2277:G:OP2	51:E5:12:ASN:ND2	2.46	0.48
26:14:2291:U:H2'	26:14:2292:C:C6	2.48	0.48
26:14:2611:U:H3'	26:14:2611:U:OP2	2.13	0.48
29:19:225:ALA:O	63:19:302:HOH:O	2.20	0.48
31:39:46:ARG:C	31:39:48:THR:H	2.20	0.48
31:39:172:TRP:CD1	31:39:172:TRP:H	2.30	0.48
32:49:77:ILE:H	32:49:82:LEU:HD12	1.78	0.48
35:69:81:VAL:HG11	35:69:88:ILE:HG12	1.95	0.48
39:25:68:GLU:H	39:25:68:GLU:CD	2.21	0.48
50:D5:156:LYS:N	50:D5:156:LYS:HD2	2.28	0.48
50:D5:176:PRO:CG	50:D5:178:GLU:HG2	2.42	0.48
51:E5:50:ASN:C	51:E5:62:LEU:HD12	2.38	0.48
51:E5:51:VAL:N	51:E5:62:LEU:HD12	2.28	0.48
1:13:600:C:H2'	1:13:601:C:C6	2.48	0.48
1:13:977:A:O2'	1:13:979:C:OP2	2.30	0.48
1:13:1095:U:H2'	1:13:1096:C:C6	2.47	0.48
1:13:1286:A:C2	21:1F:18:TYR:OH	2.66	0.48
1:13:1497:G:H2'	1:13:1498:U:H5'	1.94	0.48
1:13:1499:A:H1'	1:13:1520:G:O5'	2.13	0.48
2:1E:162:ILE:HD11	2:1E:182:ILE:HG21	1.95	0.48
4:3E:156:GLU:O	4:3E:160:GLN:HB3	2.12	0.48
14:5I:8:GLU:O	14:5I:11:LYS:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9I:74:ARG:HG2	18:9I:79:LEU:HB2	1.94	0.48
24:3K:72:G:C2	24:3K:73:C:H1'	2.48	0.48
26:1H:18:C:O3'	45:C8:23:GLY:HA2	2.13	0.48
26:1H:479:A:N3	26:1H:481:G:H5"	2.27	0.48
26:1H:1022:G:O6	38:58:66:LYS:NZ	2.45	0.48
26:1H:1533:C:H3'	26:1H:1534:G:H5"	1.94	0.48
26:1H:1534:G:C2	26:1H:1535:U:C6	3.02	0.48
26:1H:2086:U:H2'	26:1H:2087:G:C8	2.48	0.48
26:1H:2111:C:N3	26:1H:2118:U:O2'	2.42	0.48
26:1H:2428:G:N7	63:1H:4112:HOH:O	2.35	0.48
27:16:1:U:H2'	27:16:2:C:C6	2.48	0.48
27:16:42:C:O2	32:41:92:VAL:HA	2.12	0.48
29:11:154:LYS:C	29:11:155:LEU:HD12	2.38	0.48
29:11:218:ARG:HB3	29:11:219:PRO:HD2	1.95	0.48
32:41:124:SER:HB2	32:41:131:TYR:CE1	2.48	0.48
36:38:50:ARG:O	36:38:51:LEU:HB2	2.13	0.48
38:58:108:PRO:O	38:58:113:GLY:HA3	2.12	0.48
53:K8:42:GLY:C	53:K8:44:LEU:H	2.21	0.48
56:N8:40:LYS:HZ3	56:N8:47:PRO:HB2	1.78	0.48
1:1G:373:A:H2'	1:1G:374:A:H8	1.78	0.48
1:1G:1069:C:O2'	1:1G:1192:C:O2	2.30	0.48
1:1G:1277:C:O2'	1:1G:1279:A:H8	1.96	0.48
5:42:33:VAL:HA	5:42:42:GLY:O	2.12	0.48
8:72:120:THR:HG22	8:72:123:GLU:H	1.78	0.48
9:82:63:ILE:HD11	9:82:81:ILE:HD11	1.95	0.48
10:1A:78:ASN:O	10:1A:82:ILE:N	2.39	0.48
12:3A:83:VAL:HG13	12:3A:84:LEU:N	2.27	0.48
26:14:589:C:H5"	31:39:95:ARG:NH1	2.27	0.48
26:14:1268:A:P	63:14:3748:HOH:O	2.66	0.48
26:14:1461:G:H2'	26:14:1462:C:H6	1.77	0.48
26:14:1747:G:H2'	26:14:1748:G:H8	1.78	0.48
27:1J:15:A:H3'	27:1J:16:G:H5'	1.95	0.48
33:59:104:GLU:HG3	33:59:114:VAL:HG22	1.95	0.48
35:69:27:ARG:HB2	52:F5:71:TYR:CZ	2.47	0.48
40:35:95:VAL:HG13	40:35:96:THR:N	2.27	0.48
43:65:18:ILE:HA	43:65:20:ARG:HH11	1.78	0.48
48:B5:8:ILE:O	53:G5:36:ARG:NH2	2.46	0.48
1:13:241:C:C2	1:13:286:G:C2	3.01	0.48
1:13:455:C:H42	1:13:477:G:H22	1.61	0.48
1:13:590:C:OP1	8:7E:30:ARG:N	2.37	0.48
1:13:954:G:H2'	1:13:955:U:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1143:G:N2	1:13:1144:G:N3	2.61	0.48
16:7I:5:ARG:HE	16:7I:22:THR:HG22	1.78	0.48
17:8I:56:VAL:O	17:8I:77:VAL:HB	2.13	0.48
24:3K:34:U:O2'	24:3K:35:A:H3'	2.13	0.48
26:1H:484:C:OP2	49:G8:50:ARG:NH2	2.46	0.48
26:1H:1435:G:OP2	63:1H:3963:HOH:O	2.20	0.48
27:16:11:C:H3'	27:16:12:C:H6	1.78	0.48
28:71:43:VAL:HB	28:71:173:ALA:H	1.78	0.48
31:31:129:PHE:C	31:31:131:GLY:H	2.21	0.48
31:31:183:VAL:O	31:31:187:VAL:HG23	2.14	0.48
32:41:105:LYS:HD3	55:M8:26:SER:HB2	1.93	0.48
33:51:4:ILE:HG12	33:51:6:ARG:CZ	2.42	0.48
37:48:12:LEU:HD21	37:48:53:VAL:O	2.13	0.48
40:78:95:VAL:O	40:78:126:VAL:HG23	2.12	0.48
41:88:35:VAL:CG1	41:88:130:LYS:HB3	2.43	0.48
41:88:54:MET:HE1	41:88:104:PHE:HB3	1.94	0.48
46:D8:47:VAL:HG22	46:D8:48:GLY:N	2.28	0.48
1:1G:113:G:O4'	1:1G:354:G:H4'	2.13	0.48
1:1G:164:U:H2'	1:1G:165:C:C6	2.49	0.48
1:1G:371:G:O2'	1:1G:373:A:N7	2.45	0.48
1:1G:1090:U:H4'	1:1G:1170:A:H2	1.78	0.48
1:1G:1128:C:H4'	9:82:16:ARG:NH1	2.18	0.48
1:1G:1347:G:N2	1:1G:1373:G:H2'	2.28	0.48
2:12:109:SER:HA	2:12:112:VAL:HG23	1.94	0.48
10:1A:63:PHE:HD1	14:5A:58:LYS:HA	1.78	0.48
13:4A:67:GLU:HG3	13:4A:68:GLY:H	1.78	0.48
26:14:277:C:H5"	26:14:278:A:OP2	2.13	0.48
26:14:1062:G:H2'	26:14:1063:G:H8	1.77	0.48
26:14:1204:A:N1	26:14:1241:A:H2	2.10	0.48
28:79:212:VAL:HB	28:79:224:ILE:HG13	1.95	0.48
30:29:5:LEU:HD22	30:29:5:LEU:N	2.28	0.48
30:29:169:ASN:H	30:29:201:THR:HG23	1.79	0.48
31:39:197:ASP:OD1	31:39:197:ASP:N	2.41	0.48
33:59:139:GLN:O	33:59:143:GLN:HB2	2.13	0.48
40:35:57:THR:O	40:35:60:MET:N	2.46	0.48
48:B5:18:TYR:C	48:B5:20:GLY:N	2.70	0.48
49:C5:39:VAL:HG23	49:C5:41:GLY:H	1.78	0.48
50:D5:99:TYR:HA	50:D5:124:ILE:O	2.13	0.48
1:13:982:U:H5"	14:5I:6:LEU:HD11	1.96	0.48
2:1E:67:THR:HB	2:1E:157:ARG:HE	1.78	0.48
3:2E:162:GLN:HG2	25:4K:25:A:H61	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2I:33:THR:HA	11:2I:39:PRO:HA	1.93	0.48
14:5I:53:LEU:HB3	14:5I:56:VAL:CG2	2.43	0.48
18:9I:22:VAL:HG22	18:9I:42:ARG:NH2	2.29	0.48
18:9I:36:ASN:HD22	18:9I:39:VAL:HB	1.78	0.48
23:2K:45:A:H2'	23:2K:46:G:O4'	2.12	0.48
24:3K:16:C:C2	24:3K:62:C:H5"	2.48	0.48
26:1H:64:A:C4	48:F8:66:LEU:HD22	2.49	0.48
26:1H:67:U:H2'	26:1H:68:G:C8	2.48	0.48
26:1H:151:C:H2'	26:1H:152:G:H8	1.78	0.48
26:1H:617:G:OP1	31:31:40:GLN:NE2	2.47	0.48
26:1H:893:C:H5'	26:1H:894:C:OP2	2.14	0.48
26:1H:1667:G:O2'	26:1H:1991:U:O4	2.28	0.48
26:1H:2881:C:H2'	26:1H:2882:A:H8	1.78	0.48
28:71:163:PHE:CD2	28:71:196:LEU:HD13	2.48	0.48
35:61:29:TYR:CD1	35:61:33:ARG:HD2	2.48	0.48
45:C8:49:HIS:HA	45:C8:52:ARG:HG2	1.95	0.48
51:I8:23:VAL:HG13	51:I8:38:VAL:HG22	1.94	0.48
1:1G:181:G:O2'	1:1G:183:G:O6	2.24	0.48
1:1G:438:G:H4'	4:32:123:HIS:ND1	2.29	0.48
1:1G:983:A:H2	1:1G:984:C:C6	2.30	0.48
1:1G:1239:A:O2'	1:1G:1298:C:N4	2.46	0.48
1:1G:1260:C:OP1	1:1G:1284:C:H4'	2.13	0.48
3:22:89:GLU:C	3:22:91:LEU:H	2.21	0.48
6:52:7:ASN:N	6:52:7:ASN:OD1	2.47	0.48
7:62:106:GLN:O	7:62:110:GLN:HG2	2.12	0.48
10:1A:13:HIS:O	10:1A:17:ASP:HB2	2.14	0.48
26:14:68:G:H2'	26:14:69:C:H6	1.77	0.48
26:14:125:G:H1'	58:L5:13:ALA:HB1	1.95	0.48
26:14:873:G:H1'	41:45:29:PHE:HE2	1.79	0.48
26:14:2177:C:H2'	26:14:2178:C:O4'	2.12	0.48
26:14:2461:C:H42	26:14:2489:G:H1	1.61	0.48
27:1J:7:G:H3'	27:1J:8:U:H5"	1.94	0.48
27:1J:88:C:O5'	27:1J:88:C:H6	1.96	0.48
29:19:172:TYR:CD1	29:19:186:HIS:HA	2.49	0.48
31:39:117:ARG:NH2	31:39:189:THR:O	2.43	0.48
32:49:64:THR:HB	32:49:94:LEU:HD11	1.95	0.48
40:35:59:LEU:HD21	59:M5:10:ALA:HA	1.95	0.48
50:D5:19:ARG:NH1	50:D5:84:GLU:O	2.46	0.48
59:M5:23:VAL:HG22	59:M5:47:LYS:HB3	1.95	0.48
1:13:1014:A:H4'	19:AI:14:HIS:ND1	2.28	0.48
1:13:1331:G:OP1	1:13:1331:G:H4'	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:8E:114:TYR:CE1	10:1I:59:SER:HA	2.48	0.48
21:1F:9:ARG:NH2	21:1F:23:PRO:HD2	2.28	0.48
23:2K:2:G:H2'	23:2K:2:G:N3	2.28	0.48
26:1H:412:A:H5"	26:1H:413:C:OP2	2.13	0.48
26:1H:534:U:H5'	45:C8:42:ALA:CB	2.43	0.48
26:1H:863:A:H2'	26:1H:864:G:C8	2.48	0.48
26:1H:881:G:H3'	26:1H:882:G:C4'	2.42	0.48
26:1H:1312:U:H4'	26:1H:1313:U:O5'	2.13	0.48
26:1H:1348:G:H5"	26:1H:1349:A:OP2	2.14	0.48
26:1H:2199:A:H5'	26:1H:2205:C:OP2	2.13	0.48
26:1H:2658:C:H5"	33:51:158:HIS:CD2	2.48	0.48
27:16:50:G:OP1	43:A8:63:THR:HG23	2.13	0.48
28:71:53:ARG:HB3	28:71:55:ASP:OD1	2.13	0.48
29:11:35:LYS:NZ	29:11:35:LYS:N	2.61	0.48
39:68:7:TYR:CE1	39:68:20:MET:HE3	2.49	0.48
40:78:50:ARG:HD3	59:Q8:7:HIS:HE2	1.76	0.48
43:A8:36:TYR:N	43:A8:36:TYR:CD1	2.81	0.48
52:J8:30:VAL:HG23	52:J8:30:VAL:O	2.13	0.48
56:N8:36:CYS:HB2	56:N8:49:CYS:SG	2.54	0.48
1:1G:328:C:O2	1:1G:328:C:H2'	2.13	0.48
1:1G:1142:G:H2'	1:1G:1143:G:O4'	2.13	0.48
2:12:231:GLU:HB3	2:12:232:PRO:CD	2.44	0.48
12:3A:83:VAL:HG22	12:3A:100:ILE:HG23	1.96	0.48
24:3L:58:G:H2'	24:3L:59:A:H5"	1.95	0.48
26:14:889:C:H2'	26:14:890:A:O4'	2.13	0.48
29:19:254:THR:N	29:19:255:LYS:HZ1	2.10	0.48
35:69:111:PRO:C	35:69:113:ARG:N	2.71	0.48
41:45:34:LEU:HD11	41:45:129:THR:HB	1.96	0.48
1:13:757:U:H2'	1:13:758:G:O4'	2.13	0.48
1:13:1342:C:H2'	1:13:1343:G:C8	2.47	0.48
8:7E:7:ALA:HB2	8:7E:85:ARG:HH11	1.79	0.48
9:8E:25:LYS:O	9:8E:60:ASP:HA	2.13	0.48
9:8E:112:LYS:HD2	9:8E:113:LYS:H	1.77	0.48
16:7I:72:ARG:HD3	16:7I:73:LEU:HD23	1.96	0.48
20:BI:100:ILE:HD13	20:BI:101:GLY:H	1.79	0.48
26:1H:444:C:H4'	31:31:49:ALA:HB2	1.94	0.48
26:1H:731:C:H5"	63:1H:4115:HOH:O	2.13	0.48
26:1H:946:G:P	63:1H:3736:HOH:O	2.71	0.48
26:1H:1025:G:C4	26:1H:1135:C:H1'	2.49	0.48
26:1H:1067:A:N3	26:1H:1067:A:H2'	2.29	0.48
26:1H:1582:C:H2'	26:1H:1583:A:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1717:G:H2'	26:1H:1718:G:H8	1.79	0.48
26:1H:2061:G:H3'	63:1H:3763:HOH:O	2.12	0.48
26:1H:2564:A:C2	26:1H:2647:U:H4'	2.49	0.48
26:1H:2784:C:H5"	30:21:41:LYS:HZ2	1.78	0.48
26:1H:2791:C:N4	26:1H:2805:G:H1	2.00	0.48
31:31:184:TYR:O	31:31:188:ARG:HG3	2.12	0.48
33:51:28:GLY:H	33:51:79:VAL:HG11	1.77	0.48
36:38:134:LEU:O	36:38:137:GLU:HG2	2.14	0.48
50:H8:117:LEU:HD12	50:H8:118:GLN:H	1.79	0.48
1:1G:59:A:N1	63:1G:1876:HOH:O	2.35	0.48
1:1G:352:C:O2'	1:1G:354:G:OP1	2.28	0.48
1:1G:728:A:H2'	1:1G:729:A:C8	2.48	0.48
1:1G:1111:A:H2'	1:1G:1112:C:C6	2.48	0.48
1:1G:1152:A:H2'	1:1G:1153:C:O4'	2.14	0.48
2:12:149:LEU:HD22	2:12:152:PHE:HB3	1.95	0.48
8:72:23:SER:OG	8:72:24:THR:N	2.46	0.48
8:72:119:LEU:HD13	8:72:123:GLU:HB3	1.96	0.48
10:1A:45:ARG:HB3	10:1A:65:LEU:HB3	1.96	0.48
14:5A:21:TYR:HE1	14:5A:23:ARG:NE	2.11	0.48
18:9A:32:ARG:HD3	18:9A:65:ILE:CD1	2.42	0.48
26:14:1093:G:H22	26:14:1097:U:H5"	1.79	0.48
26:14:2706:G:C2	26:14:2707:G:H1'	2.49	0.48
26:14:2787:C:O3'	30:29:61:ARG:NH1	2.46	0.48
32:49:39:ILE:O	32:49:91:ARG:HG2	2.13	0.48
32:49:72:ARG:HD2	32:49:85:GLY:O	2.13	0.48
33:59:33:LEU:CD1	33:59:75:ALA:HA	2.44	0.48
35:69:93:THR:O	35:69:97:ILE:HG13	2.14	0.48
43:65:28:VAL:HG22	43:65:101:LEU:HD23	1.96	0.48
43:65:34:HIS:CG	43:65:54:LEU:HD21	2.49	0.48
1:13:6:G:OP2	4:3E:85:LYS:NZ	2.34	0.48
1:13:537:G:OP1	12:3I:113:ARG:NH1	2.45	0.48
1:13:607:A:C2	16:7I:31:LYS:HG3	2.49	0.48
2:1E:48:MET:HA	2:1E:51:LEU:HB2	1.96	0.48
2:1E:209:ARG:HD2	2:1E:235:SER:HB2	1.96	0.48
6:5E:44:GLY:HA2	6:5E:59:TYR:CE1	2.48	0.48
16:7I:28:ARG:HD2	16:7I:29:ASP:OD1	2.14	0.48
22:1K:58:G:P	41:88:60:ARG:HH22	2.35	0.48
26:1H:442:G:H1'	31:31:48:THR:HG21	1.96	0.48
26:1H:592:G:C2	59:Q8:4:MET:HE1	2.48	0.48
26:1H:1083:U:H2'	26:1H:1084:A:H5"	1.95	0.48
26:1H:1296:G:O2'	26:1H:1297:C:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1473:G:H2'	26:1H:1474:C:O4'	2.14	0.48
26:1H:1678:G:H22	26:1H:1989:G:H22	1.57	0.48
63:1H:3848:HOH:O	47:E8:88:ARG:HA	2.13	0.48
28:71:26:ALA:HB1	28:71:185:LEU:O	2.13	0.48
29:11:26:LYS:CD	29:11:29:PRO:HG3	2.34	0.48
30:21:37:ARG:HA	30:21:42:ASP:OD2	2.13	0.48
32:41:98:ARG:NH2	55:M8:1:MET:HG3	2.28	0.48
32:41:131:TYR:CE2	32:41:133:LEU:HD23	2.48	0.48
33:51:94:TYR:OH	33:51:160:LYS:HE3	2.13	0.48
40:78:90:ARG:HG2	40:78:91:PHE:CD1	2.48	0.48
41:88:38:GLU:CD	41:88:128:LYS:HD2	2.38	0.48
43:A8:89:ARG:HG3	43:A8:92:TYR:O	2.13	0.48
44:B8:108:ARG:HA	44:B8:111:ARG:NE	2.28	0.48
1:1G:197:A:C6	1:1G:221:C:H4'	2.49	0.48
2:12:9:GLU:HB2	2:12:217:ARG:HH22	1.76	0.48
7:62:94:ARG:O	7:62:98:SER:OG	2.30	0.48
11:2A:96:ARG:O	11:2A:99:GLN:HB2	2.14	0.48
13:4A:40:ASN:HB3	13:4A:43:THR:HB	1.95	0.48
13:4A:66:LEU:HA	13:4A:70:LEU:HB2	1.95	0.48
23:2L:61:U:H5"	23:2L:62:C:H5	1.78	0.48
26:14:375:C:H2'	26:14:376:C:C6	2.48	0.48
26:14:1842:G:O2'	29:19:253:GLN:OE1	2.18	0.48
26:14:2346:A:H5"	26:14:2383:G:H1'	1.96	0.48
26:14:2611:U:C4	56:J5:3:LYS:HG2	2.48	0.48
26:14:2762:G:C8	26:14:2762:G:H5"	2.49	0.48
31:39:4:VAL:HG11	31:39:17:ARG:CZ	2.43	0.48
33:59:104:GLU:HA	33:59:113:VAL:O	2.13	0.48
39:25:59:LYS:HB2	39:25:87:ILE:HG22	1.96	0.48
39:25:70:LYS:HZ2	39:25:70:LYS:HB3	1.78	0.48
52:F5:52:ARG:CZ	52:F5:56:GLN:HA	2.43	0.48
53:G5:43:GLN:HG3	53:G5:46:GLN:HE22	1.77	0.48
59:M5:33:ASN:C	59:M5:35:GLN:N	2.58	0.48
1:13:984:C:H2'	1:13:985:C:C6	2.48	0.48
9:8E:77:ILE:O	9:8E:81:ILE:HG12	2.13	0.48
19:AI:51:VAL:O	19:AI:58:VAL:HG12	2.14	0.48
23:2K:48:U:H1'	23:2K:49:C:P	2.53	0.48
26:1H:34:C:O2'	26:1H:35:G:P	2.71	0.48
26:1H:71:A:H4'	26:1H:72:U:H5"	1.95	0.48
26:1H:151:C:H2'	26:1H:152:G:C8	2.49	0.48
26:1H:270(H):C:H42	26:1H:270(R):G:H1	1.61	0.48
26:1H:355:G:H2'	26:1H:356:G:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:654(A):A:C2	26:1H:654(T):A:N1	2.81	0.48
26:1H:1680:U:O2	26:1H:1763:G:H3'	2.13	0.48
29:11:183:ARG:NH1	29:11:269:PHE:HB2	2.28	0.48
36:38:46:GLN:HB3	36:38:48:GLY:H	1.79	0.48
36:38:58:LEU:O	36:38:62:ALA:N	2.40	0.48
37:48:138:VAL:O	37:48:139:VAL:HB	2.13	0.48
46:D8:9:GLY:O	46:D8:10:LYS:HG3	2.14	0.48
54:L8:13:ILE:HD13	54:L8:13:ILE:HA	1.61	0.48
2:12:193:ASP:OD1	2:12:196:LEU:HG	2.14	0.48
4:32:31:CYS:C	4:32:33:MET:H	2.22	0.48
15:6A:82:ILE:HG22	15:6A:87:ILE:HB	1.95	0.48
24:3L:51:G:H1	24:3L:65:C:H42	1.61	0.48
26:14:580:C:H2'	26:14:581:C:H6	1.78	0.48
26:14:1328:G:H2'	26:14:1330:C:C5	2.48	0.48
26:14:2110:G:O2'	26:14:2120:G:H5'	2.13	0.48
26:14:2132:U:O4	28:79:6:ARG:NE	2.46	0.48
26:14:2283:C:C2	26:14:2389:G:C2	3.01	0.48
26:14:2287:A:C2	26:14:2346:A:H2	2.32	0.48
41:45:42:ILE:HD13	41:45:97:VAL:HG21	1.96	0.48
41:45:43:THR:HB	41:45:45:GLN:HG2	1.96	0.48
43:65:35:ILE:HB	43:65:97:ARG:NH2	2.28	0.48
45:85:61:TRP:CZ3	45:85:94:ASN:HB2	2.49	0.48
1:13:1151:A:H2'	1:13:1152:A:H8	1.78	0.48
1:13:1285:A:H4'	1:13:1286:A:O5'	2.13	0.48
1:13:1349:A:H2'	1:13:1350:A:H8	1.77	0.48
2:1E:166:ASP:HB3	2:1E:169:LYS:HB2	1.96	0.48
4:3E:209:ARG:HE	4:3E:209:ARG:N	2.12	0.48
5:4E:102:ALA:HB1	5:4E:106:PRO:HG2	1.94	0.48
6:5E:15:ASP:OD1	6:5E:18:GLN:N	2.39	0.48
22:1K:73:C:H4'	22:1K:74:A:OP1	2.14	0.48
26:1H:705:A:C8	26:1H:727:A:C2	3.02	0.48
26:1H:934:G:H2'	26:1H:935:C:C6	2.48	0.48
26:1H:1509:C:H2'	26:1H:1511:A:C8	2.49	0.48
26:1H:1689:A:N6	26:1H:1698:A:H2	2.07	0.48
26:1H:1693:U:H1'	29:11:14:ARG:NH2	2.29	0.48
26:1H:1717:G:H2'	26:1H:1718:G:C8	2.49	0.48
26:1H:2111:C:C4	26:1H:2145:C:C2	3.01	0.48
26:1H:2244:U:H2'	26:1H:2245:U:O4'	2.13	0.48
26:1H:2392:A:H1'	40:78:61:ARG:HD2	1.95	0.48
32:41:11:TYR:O	32:41:15:VAL:HB	2.14	0.48
36:38:45:LYS:NZ	36:38:45:LYS:HB3	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:98:33:ARG:HG3	42:98:115:GLU:HB3	1.95	0.48
44:B8:58:ASN:C	44:B8:58:ASN:HD22	2.22	0.48
44:B8:109:GLU:O	44:B8:113:LYS:HG2	2.14	0.48
55:M8:38:LYS:HD2	55:M8:38:LYS:N	2.28	0.48
57:O8:28:ARG:HB2	57:O8:31:PRO:HD2	1.95	0.48
1:1G:295:C:H2'	1:1G:296:U:O4'	2.14	0.48
1:1G:764:C:H2'	1:1G:765:G:O4'	2.13	0.48
1:1G:778:G:H2'	1:1G:779:C:O4'	2.14	0.48
1:1G:842:C:H5'	1:1G:843:U:OP1	2.13	0.48
1:1G:1480:G:C6	1:1G:1481:U:N3	2.82	0.48
3:22:47:LEU:HD23	3:22:52:LEU:HB3	1.96	0.48
5:42:43:LEU:HB2	5:42:136:MET:SD	2.54	0.48
12:3A:59:ARG:HA	12:3A:65:GLU:H	1.79	0.48
16:7A:72:ARG:HD2	16:7A:73:LEU:HD23	1.96	0.48
25:4L:10:G:N2	25:4L:11:U:H3	2.12	0.48
26:14:71:A:H5"	26:14:73:A:C8	2.49	0.48
26:14:363(B):G:H2'	26:14:363(C):G:H8	1.79	0.48
26:14:816:C:P	63:14:4017:HOH:O	2.71	0.48
26:14:1003:G:N2	26:14:1153:C:C2	2.82	0.48
26:14:1187:G:OP1	46:95:81:TYR:OH	2.31	0.48
26:14:1298:C:H5"	26:14:1299:G:OP2	2.14	0.48
26:14:1568:G:P	29:19:63:ARG:HH22	2.37	0.48
26:14:1638:C:H3'	63:14:4215:HOH:O	2.14	0.48
26:14:2583:G:OP2	63:14:3889:HOH:O	2.20	0.48
26:14:2767:C:H2'	26:14:2768:C:C6	2.49	0.48
27:1J:18:G:N2	27:1J:108:C:N3	2.62	0.48
28:79:189:ILE:O	28:79:193:ILE:HB	2.14	0.48
29:19:44:ASN:HD22	29:19:44:ASN:C	2.21	0.48
33:59:2:SER:OG	33:59:3:ARG:N	2.43	0.48
40:35:101:VAL:HG23	40:35:108:LYS:H	1.79	0.48
40:35:122:PRO:HB3	40:35:141:ALA:HB1	1.96	0.48
1:13:105:G:H2'	1:13:106:C:H6	1.78	0.48
1:13:970:C:H42	9:8E:128:ARG:C	2.22	0.48
1:13:1468:A:P	63:13:1960:HOH:O	2.71	0.48
9:8E:3:GLN:OE1	9:8E:20:ARG:NH1	2.35	0.48
11:2I:50:TYR:HD2	11:2I:54:ARG:HB2	1.78	0.48
23:2K:77:A:P	63:2K:203:HOH:O	2.71	0.48
24:3K:73:C:N4	24:3K:74:A:N7	2.62	0.48
26:1H:1021:A:H2'	26:1H:1023:U:H5'	1.96	0.48
26:1H:1263:U:O2'	56:N8:11:THR:HG23	2.14	0.48
26:1H:1341:U:O4	48:F8:16:LYS:NZ	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1514:U:H2'	26:1H:1515:C:C6	2.48	0.48
26:1H:2774:C:H2'	26:1H:2775:A:O4'	2.14	0.48
27:16:24:G:N7	27:16:56:G:H2'	2.29	0.48
29:11:105:ILE:HD13	29:11:106:ILE:H	1.79	0.48
30:21:5:LEU:HD12	30:21:51:PHE:HB2	1.96	0.48
34:18:1:MET:HE2	34:28:18:LEU:HD21	1.96	0.48
40:78:1:MET:HE1	40:78:6:LEU:HD22	1.95	0.48
41:88:72:LYS:HB3	41:88:94:VAL:HG23	1.96	0.48
46:D8:43:GLU:O	46:D8:44:LYS:HD3	2.14	0.48
51:I8:19:LYS:HD3	51:I8:19:LYS:HA	1.61	0.48
52:J8:93:GLU:N	52:J8:94:LEU:HA	2.16	0.48
55:M8:23:GLU:CD	55:M8:24:THR:N	2.71	0.48
1:1G:162:A:O5'	1:1G:162:A:H8	1.96	0.48
1:1G:1385:G:C2	1:1G:1386:G:C8	3.01	0.48
3:22:14:ILE:O	3:22:16:ARG:N	2.46	0.48
5:42:12:LEU:HD22	5:42:13:ILE:N	2.29	0.48
5:42:78:HIS:HB3	8:72:107:LEU:HD12	1.94	0.48
24:3L:4:U:H2'	24:3L:5:C:O4'	2.14	0.48
26:14:249:C:H4'	26:14:250:G:O5'	2.14	0.48
26:14:1309:G:OP1	58:L5:9:ARG:HG3	2.13	0.48
26:14:1323:U:OP1	47:A5:84:ARG:HD2	2.13	0.48
26:14:1467:C:H2'	26:14:1468:C:H6	1.79	0.48
26:14:2152:G:N3	26:14:2152:G:H2'	2.29	0.48
26:14:2438:U:O2'	26:14:2440:C:OP1	2.31	0.48
26:14:2849:U:H1'	26:14:2866:U:O2	2.13	0.48
27:1J:65:C:H41	27:1J:108:C:C2'	2.27	0.48
27:1J:116:G:C5'	43:65:55:ALA:HB2	2.43	0.48
44:75:91:ARG:HD3	44:75:120:ARG:HB3	1.96	0.48
46:95:76:LYS:H	46:95:81:TYR:HB3	1.79	0.48
52:F5:56:GLN:HE21	52:F5:84:GLY:HA2	1.79	0.48
53:G5:50:ILE:HD12	53:G5:51:ARG:HG3	1.94	0.48
1:13:377:G:H1	1:13:386:C:H42	1.62	0.47
1:13:1122:U:O4	1:13:1123:A:N6	2.46	0.47
11:2I:19:ALA:HB2	11:2I:32:ILE:HG23	1.96	0.47
26:1H:484:C:OP1	49:G8:51:VAL:HG22	2.14	0.47
26:1H:489:G:N7	47:E8:49:LYS:NZ	2.56	0.47
26:1H:633:A:H2'	26:1H:634:C:H5'	1.96	0.47
26:1H:1127:A:C2'	26:1H:1128:A:H5"	2.44	0.47
26:1H:1184:G:C5	26:1H:1185:C:C5	3.01	0.47
26:1H:1773:A:OP2	63:1H:3967:HOH:O	2.20	0.47
26:1H:2129:C:O2	26:1H:2160:G:N1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:44:GLY:C	32:41:46:ALA:H	2.22	0.47
53:K8:21:LEU:HD13	53:K8:64:LEU:HA	1.95	0.47
1:1G:113:G:H2'	1:1G:114:U:H6	1.79	0.47
1:1G:791:G:C6	1:1G:792:A:N7	2.82	0.47
1:1G:1051:C:H2'	1:1G:1052:U:H6	1.78	0.47
1:1G:1152:A:H5'	10:1A:13:HIS:ND1	2.29	0.47
2:12:52:GLU:O	2:12:56:ARG:HG2	2.13	0.47
3:22:42:LEU:O	3:22:45:LYS:HG2	2.13	0.47
8:72:31:PHE:HZ	8:72:134:ILE:HD13	1.78	0.47
9:82:102:LEU:O	9:82:103:THR:OG1	2.29	0.47
11:2A:48:ILE:HD11	11:2A:64:ALA:HA	1.95	0.47
13:4A:84:ILE:HG21	19:AA:74:PHE:CE1	2.48	0.47
18:9A:22:VAL:HG12	18:9A:55:ARG:O	2.14	0.47
22:1L:1:G:P	22:1L:1:G:H8	2.37	0.47
23:2L:22:A:N6	23:2L:47:7MG:H2'	2.29	0.47
24:3L:45:C:O2'	24:3L:46:G:H5'	2.14	0.47
26:14:65:C:H2'	26:14:66:C:H6	1.79	0.47
26:14:802:A:H4'	63:14:4894:HOH:O	2.13	0.47
26:14:1036:G:OP1	33:59:59:ARG:HB2	2.14	0.47
26:14:2107:C:N3	26:14:2182:G:N2	2.45	0.47
26:14:2695:C:H2'	26:14:2696:U:C6	2.49	0.47
29:19:12:SER:CB	29:19:208:LYS:HB3	2.42	0.47
30:29:56:PRO:HD2	30:29:58:ARG:NH2	2.29	0.47
50:D5:30:ASN:HA	50:D5:89:PHE:HE1	1.79	0.47
1:13:629:G:O5'	1:13:629:G:H8	1.97	0.47
1:13:1345:U:OP1	63:13:1964:HOH:O	2.20	0.47
1:13:1409:C:H2'	1:13:1410:G:H8	1.78	0.47
9:8E:9:ARG:O	9:8E:104:ARG:HG3	2.14	0.47
13:4I:15:VAL:O	13:4I:19:LEU:HG	2.14	0.47
20:BI:58:LYS:HE3	20:BI:62:LEU:HD21	1.96	0.47
22:1K:33:RSP:H5'A	22:1K:34:U:OP2	2.13	0.47
26:1H:49:A:N6	26:1H:177:G:C4	2.82	0.47
26:1H:675:A:C8	26:1H:804:A:C6	3.02	0.47
26:1H:1493:C:N3	26:1H:2210:G:H1'	2.29	0.47
26:1H:2557:G:H2'	26:1H:2558:C:C6	2.49	0.47
27:16:44:G:C2	27:16:48:A:C2	3.01	0.47
27:16:90:C:OP1	41:88:16:ARG:HB3	2.14	0.47
33:51:52:VAL:HG12	33:51:65:HIS:CD2	2.50	0.47
37:48:73:PRO:HB2	37:48:127:ILE:CD1	2.45	0.47
44:B8:107:ASP:O	44:B8:110:ILE:HG23	2.13	0.47
1:1G:131:C:H2'	1:1G:132:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1287:A:H2'	1:1G:1288:A:C8	2.49	0.47
1:1G:1328:C:O2'	13:4A:29:ARG:NH2	2.46	0.47
6:52:2:ARG:HD3	6:52:92:LYS:HZ2	1.79	0.47
26:14:155:C:H2'	26:14:155:C:O2	2.12	0.47
26:14:182:A:N6	26:14:214:G:O6	2.47	0.47
26:14:248:G:P	63:14:3771:HOH:O	2.71	0.47
26:14:363(B):G:H2'	26:14:363(C):G:C8	2.49	0.47
26:14:479:A:N3	26:14:481:G:H5"	2.29	0.47
26:14:573:G:O2'	26:14:574:C:H3'	2.14	0.47
26:14:1019:U:H3	26:14:1142(A):A:N6	2.03	0.47
26:14:1167:U:C2	26:14:1183:G:N2	2.81	0.47
26:14:2131:G:H5'	26:14:2133:G:H4'	1.96	0.47
26:14:2134:A:H2'	26:14:2134:A:N3	2.28	0.47
27:1J:88:C:O5'	27:1J:88:C:C6	2.67	0.47
27:1J:117:G:O5'	27:1J:117:G:H8	1.97	0.47
29:19:33:LEU:HD23	29:19:34:VAL:HG13	1.95	0.47
32:49:75:LYS:HA	32:49:84:LYS:HG3	1.96	0.47
33:59:93:GLY:C	33:59:94:TYR:HD1	2.21	0.47
47:A5:17:VAL:HG21	47:A5:103:ILE:HD13	1.95	0.47
49:C5:102:CYS:HG	49:C5:103:GLY:H	1.59	0.47
50:D5:48:PHE:HA	50:D5:51:ALA:HB3	1.95	0.47
1:13:1246:C:H42	1:13:1291:G:H1	1.63	0.47
1:13:1353:G:C2	1:13:1370:G:C2	3.03	0.47
1:13:1376:U:H2'	1:13:1377:A:C8	2.48	0.47
1:13:1503:A:C4	63:13:2052:HOH:O	2.56	0.47
2:1E:98:LEU:HD12	2:1E:101:MET:HE3	1.95	0.47
7:6E:104:LEU:HD13	7:6E:104:LEU:HA	1.74	0.47
12:3I:53:ARG:NH1	12:3I:92:ASP:OD1	2.45	0.47
26:1H:18:C:H4'	45:C8:23:GLY:O	2.15	0.47
26:1H:94:G:H21	53:K8:47:ASN:HD21	1.61	0.47
26:1H:449:A:C6	26:1H:450:G:C5	3.02	0.47
26:1H:1077:A:H2'	26:1H:1077:A:N3	2.29	0.47
26:1H:1168:G:C2	26:1H:1182:A:C2	3.02	0.47
26:1H:1925:C:C2'	26:1H:1926:U:H5'	2.44	0.47
27:16:51:G:H2'	27:16:52:A:C8	2.50	0.47
31:31:108:LYS:O	31:31:112:MET:HG3	2.14	0.47
31:31:129:PHE:O	31:31:131:GLY:N	2.44	0.47
41:88:35:VAL:HG12	41:88:130:LYS:O	2.14	0.47
44:B8:36:GLU:HG3	44:B8:41:ARG:HE	1.78	0.47
49:G8:85:VAL:O	49:G8:97:ARG:HA	2.15	0.47
50:H8:105:VAL:HG22	50:H8:140:ASP:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:I8:83:PRO:O	51:I8:84:LEU:HB2	2.13	0.47
57:O8:28:ARG:HB3	57:O8:30:THR:H	1.78	0.47
1:1G:373:A:C2	1:1G:374:A:C8	3.03	0.47
1:1G:591:U:H2'	1:1G:592:G:C8	2.49	0.47
2:12:68:ILE:HG12	2:12:161:ALA:HB3	1.96	0.47
2:12:87:ARG:NH2	2:12:233:SER:HB3	2.29	0.47
3:22:150:LYS:HG3	3:22:169:ALA:HB2	1.95	0.47
8:72:120:THR:HG23	8:72:122:ARG:N	2.29	0.47
10:1A:50:ILE:HD13	10:1A:60:ARG:HD3	1.97	0.47
15:6A:76:GLU:HA	15:6A:79:ARG:CZ	2.44	0.47
26:14:21:A:C2	26:14:520:G:C2	3.02	0.47
26:14:139:G:H1'	26:14:140:A:H2	1.78	0.47
26:14:2652:C:H42	26:14:2668:G:H22	1.62	0.47
27:1J:73:A:C4	27:1J:104:A:C2	3.03	0.47
28:79:178:ALA:HA	28:79:185:LEU:HD11	1.96	0.47
29:19:70:TRP:CH2	29:19:150:LYS:HA	2.50	0.47
30:29:39:PRO:HD3	30:29:45:THR:HG23	1.96	0.47
33:59:26:VAL:HG11	33:59:75:ALA:HB1	1.96	0.47
38:15:116:LEU:O	38:15:119:ARG:N	2.45	0.47
39:25:24:VAL:HA	39:25:39:ILE:HG22	1.95	0.47
40:35:47:ASP:HB3	40:35:50:ARG:H	1.78	0.47
43:65:93:LYS:HE2	43:65:95:HIS:HB3	1.95	0.47
46:95:46:VAL:HG23	46:95:52:VAL:HG21	1.96	0.47
46:95:99:ILE:H	46:95:99:ILE:HG13	1.50	0.47
53:G5:49:LYS:HA	53:G5:52:ASP:HB2	1.97	0.47
54:H5:8:LEU:HD23	54:H5:30:ARG:O	2.14	0.47
1:13:964:A:N3	1:13:969:A:O2'	2.35	0.47
1:13:976:G:H5'	1:13:1358:U:O2'	2.14	0.47
1:13:994:A:H2'	1:13:994:A:N3	2.29	0.47
1:13:1070:U:H2'	1:13:1071:C:H6	1.79	0.47
1:13:1352:C:N4	63:13:2043:HOH:O	2.48	0.47
3:2E:22:TRP:CH2	3:2E:32:LEU:HB3	2.49	0.47
3:2E:35:GLU:O	3:2E:39:ILE:N	2.40	0.47
5:4E:100:VAL:HG22	5:4E:115:VAL:HG12	1.96	0.47
15:6I:82:ILE:O	15:6I:86:GLY:N	2.46	0.47
26:1H:359:A:H2'	26:1H:360:G:O4'	2.15	0.47
26:1H:644:A:O2'	26:1H:645:C:H3'	2.14	0.47
26:1H:813:U:H2'	26:1H:814:C:C6	2.49	0.47
26:1H:1062:G:H8	26:1H:1062:G:O5'	1.96	0.47
26:1H:1314:C:OP1	63:1H:3731:HOH:O	2.19	0.47
26:1H:2140:C:O2	26:1H:2152:G:N2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2199:A:H3'	26:1H:2205:C:H6	1.78	0.47
26:1H:2780:G:OP2	38:58:118:LYS:HE2	2.14	0.47
46:D8:36:PRO:CB	46:D8:37:VAL:HG22	2.45	0.47
46:D8:62:LEU:HD12	46:D8:62:LEU:HA	1.55	0.47
53:K8:18:PRO:O	53:K8:21:LEU:HB2	2.15	0.47
1:1G:280:C:N3	17:8A:39:SER:N	2.62	0.47
1:1G:969:A:H2'	1:1G:970:C:O4'	2.14	0.47
2:12:15:VAL:HB	2:12:16:HIS:ND1	2.29	0.47
3:22:113:ALA:HB2	3:22:202:ILE:HG13	1.96	0.47
3:22:121:ALA:HB1	3:22:189:ALA:HB2	1.97	0.47
12:3A:27:LEU:HG	12:3A:33:ARG:HB2	1.96	0.47
12:3A:100:ILE:HG22	12:3A:101:VAL:N	2.29	0.47
26:14:10:G:N1	26:14:2629:A:N7	2.62	0.47
26:14:55:G:H2'	26:14:56:A:C8	2.50	0.47
26:14:271(B):G:N7	26:14:421:U:H2'	2.29	0.47
26:14:680:G:N7	63:14:4042:HOH:O	2.36	0.47
26:14:1116:C:H2'	26:14:1117:G:C8	2.49	0.47
26:14:1441:G:H2'	26:14:1442:G:C8	2.48	0.47
26:14:2880:C:O2'	42:55:90:ARG:HD3	2.14	0.47
28:79:52:ARG:NE	28:79:167:LYS:HB3	2.28	0.47
39:25:102:VAL:HB	39:25:106:LEU:HD12	1.97	0.47
46:95:46:VAL:CG2	46:95:52:VAL:HG21	2.44	0.47
1:13:108:G:C6	20:BI:15:ARG:HD2	2.49	0.47
1:13:963:G:N2	10:1I:55:LYS:HE2	2.15	0.47
1:13:1014:A:C2	1:13:1219:U:H1'	2.49	0.47
1:13:1080:A:H5"	1:13:1081:G:OP2	2.14	0.47
1:13:1252:A:H2'	1:13:1253:G:O4'	2.15	0.47
4:3E:8:VAL:CG1	4:3E:21:LEU:HB2	2.45	0.47
5:4E:76:ILE:HD13	5:4E:91:LEU:HB3	1.95	0.47
8:7E:12:ARG:HD3	8:7E:26:VAL:HB	1.96	0.47
10:1I:58:ASP:O	10:1I:59:SER:C	2.56	0.47
26:1H:558:G:P	38:58:111:PRO:HD2	2.54	0.47
26:1H:662:G:H5'	40:78:15:ARG:CA	2.37	0.47
26:1H:1705:G:C2'	26:1H:1706:U:H5'	2.45	0.47
26:1H:2125:G:H1	26:1H:2171:A:H5"	1.80	0.47
26:1H:2291:U:H2'	26:1H:2292:C:C6	2.50	0.47
26:1H:2680:C:OP2	30:21:111:ARG:NH2	2.48	0.47
29:11:16:MET:HE3	29:11:211:ARG:HD2	1.95	0.47
31:31:24:LEU:HD21	31:31:114:VAL:HG12	1.95	0.47
31:31:64:ILE:HG23	31:31:65:TRP:NE1	2.29	0.47
33:51:157:TYR:CE1	33:51:171:LEU:HB3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:D8:1:MET:SD	46:D8:43:GLU:HG2	2.55	0.47
54:L8:50:VAL:O	54:L8:54:VAL:HG12	2.14	0.47
1:1G:130:A:OP2	17:8A:63:ARG:NH2	2.34	0.47
1:1G:574:A:O2'	1:1G:882:C:O2'	2.26	0.47
1:1G:673:G:O3'	6:52:87:ARG:NH2	2.47	0.47
1:1G:746:A:H2'	1:1G:747:C:C6	2.49	0.47
1:1G:848:C:O5'	1:1G:848:C:H6	1.98	0.47
1:1G:1443:G:O2'	44:75:122:ASP:OD2	2.32	0.47
2:12:101:MET:HE2	2:12:108:ILE:HG21	1.96	0.47
12:3A:27:LEU:O	12:3A:27:LEU:HD13	2.15	0.47
14:5A:17:LYS:HD2	14:5A:18:VAL:N	2.30	0.47
26:14:38:A:H2'	26:14:39:C:C6	2.50	0.47
26:14:315:G:H2'	26:14:316:C:C6	2.49	0.47
26:14:1137:G:O2'	26:14:2039:C:H5'	2.13	0.47
26:14:1450:C:H2'	26:14:1451:C:C6	2.50	0.47
26:14:1893:C:H2'	26:14:1894:C:H5'	1.95	0.47
26:14:2031:A:C6	26:14:2498:C:H1'	2.49	0.47
26:14:2054:A:H5"	26:14:2055:C:O5'	2.14	0.47
26:14:2151:G:C2	26:14:2152:G:H1'	2.50	0.47
26:14:2338:G:N2	26:14:2339:G:C4	2.83	0.47
26:14:2856:C:H2'	26:14:2857:G:O4'	2.14	0.47
27:1J:44:G:C2	27:1J:48:A:C2	3.02	0.47
32:49:16:ARG:O	32:49:20:ILE:HG13	2.14	0.47
49:C5:38:ILE:HD11	49:C5:66:PRO:HG3	1.96	0.47
52:F5:35:THR:OG1	52:F5:35:THR:O	2.25	0.47
59:M5:50:LEU:O	59:M5:51:ALA:HB2	2.15	0.47
1:13:114:U:H2'	1:13:115:G:C8	2.50	0.47
1:13:219:C:H2'	1:13:220:G:O4'	2.14	0.47
1:13:224:C:H2'	1:13:225:C:C6	2.50	0.47
1:13:427:U:H5'	4:3E:41:GLY:HA2	1.96	0.47
1:13:452:A:O2'	1:13:453:A:O4'	2.32	0.47
1:13:468:A:H2'	1:13:474:G:C8	2.49	0.47
1:13:1008:C:H42	1:13:1021:G:H1	1.62	0.47
1:13:1087:G:H2'	1:13:1088:G:C8	2.50	0.47
11:2I:43:SER:OG	11:2I:44:SER:N	2.48	0.47
11:2I:124:LYS:HB3	11:2I:125:PHE:CE1	2.49	0.47
22:1K:23:G:H2'	22:1K:24:A:C8	2.50	0.47
26:1H:879:G:O5'	26:1H:879:G:H8	1.98	0.47
26:1H:1570:A:H5'	29:11:37:LEU:CD2	2.36	0.47
27:16:12:C:H6	27:16:12:C:OP2	1.98	0.47
32:41:130:ASN:HB3	32:41:159:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:K8:64:LEU:HD21	53:K8:68:ARG:NH1	2.30	0.47
1:1G:144:G:H1	1:1G:178:C:H42	1.61	0.47
1:1G:977:A:H2'	1:1G:978:A:H5'	1.96	0.47
1:1G:1327:C:H2'	1:1G:1328:C:C6	2.49	0.47
2:12:134:GLU:O	2:12:138:LEU:HG	2.14	0.47
3:22:18:TRP:NE1	14:5A:55:GLY:H	2.13	0.47
7:62:95:ARG:O	7:62:99:LEU:HB2	2.14	0.47
13:4A:25:ILE:HD13	13:4A:25:ILE:HA	1.74	0.47
26:14:956:G:OP1	41:45:85:LYS:HA	2.15	0.47
26:14:979:G:H3'	26:14:980:A:C5'	2.43	0.47
26:14:1069:A:H4'	26:14:1070:A:H5"	1.97	0.47
26:14:1114:G:H2'	26:14:1115:G:C8	2.50	0.47
26:14:1174:A:H3'	26:14:1174:A:N3	2.30	0.47
26:14:1774:C:O5'	26:14:1774:C:H6	1.97	0.47
26:14:1857:G:C6	26:14:1858:G:N1	2.83	0.47
26:14:2292:C:OP1	43:65:17:ARG:NH2	2.48	0.47
26:14:2859:G:H4'	26:14:2860:A:OP1	2.14	0.47
44:75:27:THR:OG1	44:75:89:VAL:HG22	2.15	0.47
53:G5:43:GLN:HB2	53:G5:45:SER:N	2.29	0.47
1:13:145:G:N2	1:13:177:C:N3	2.49	0.47
1:13:169:C:H2'	1:13:170:U:H6	1.80	0.47
1:13:313:A:H2'	1:13:314:C:C6	2.50	0.47
1:13:359:U:H2'	1:13:360:A:C8	2.50	0.47
1:13:474:G:H5'	16:7I:81:ARG:NE	2.30	0.47
1:13:624:C:H2'	1:13:625:G:H8	1.79	0.47
1:13:791:G:C6	1:13:792:A:C2	3.03	0.47
1:13:902:G:O2'	1:13:903:G:H5'	2.14	0.47
1:13:944:G:P	63:13:1999:HOH:O	2.73	0.47
1:13:1060:C:C5	3:2E:2:GLY:HA2	2.49	0.47
1:13:1118:C:H1'	1:13:1179:A:C4	2.50	0.47
1:13:1305:G:OP2	1:13:1305:G:C8	2.66	0.47
4:3E:76:ARG:HG3	4:3E:207:TYR:CE1	2.50	0.47
4:3E:110:PHE:CE2	4:3E:148:VAL:HG23	2.48	0.47
5:4E:126:ARG:HG3	5:4E:126:ARG:NH1	2.28	0.47
7:6E:74:GLU:HG2	7:6E:91:VAL:HG22	1.95	0.47
8:7E:39:LEU:HB3	8:7E:45:ILE:HG12	1.96	0.47
8:7E:115:SER:C	8:7E:116:LYS:HE2	2.40	0.47
12:3I:53:ARG:HH12	12:3I:92:ASP:CG	2.21	0.47
18:9I:22:VAL:HG22	18:9I:42:ARG:HH22	1.77	0.47
18:9I:31:LEU:HD23	18:9I:31:LEU:H	1.79	0.47
23:2K:48:U:H1'	23:2K:49:C:O5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:775:G:C5	26:1H:794:G:C8	3.02	0.47
26:1H:805:G:P	40:78:41:ARG:HG2	2.55	0.47
26:1H:822:U:OP2	63:1H:3917:HOH:O	2.19	0.47
26:1H:1430:C:H2'	26:1H:1431:U:H6	1.80	0.47
26:1H:2119:A:N1	26:1H:2170:A:H2'	2.30	0.47
26:1H:2124:G:H5"	28:71:174:PRO:HG3	1.97	0.47
26:1H:2260:C:C2'	26:1H:2261:C:H5'	2.44	0.47
26:1H:2646:C:OP2	26:1H:2732:G:O2'	2.18	0.47
29:11:147:LEU:HD13	29:11:155:LEU:HD21	1.96	0.47
30:21:116:VAL:H	30:21:157:ALA:HB2	1.80	0.47
31:31:134:GLY:HA3	31:31:166:ALA:HB2	1.97	0.47
32:41:82:LEU:HD22	32:41:82:LEU:HA	1.68	0.47
33:51:68:THR:O	33:51:72:ILE:HG13	2.15	0.47
37:48:74:ALA:H	37:48:127:ILE:HG23	1.80	0.47
37:48:132:ARG:O	37:48:137:GLU:HA	2.14	0.47
50:H8:152:ALA:HB3	50:H8:167:PRO:O	2.15	0.47
50:H8:155:LEU:HA	50:H8:155:LEU:HD23	1.55	0.47
57:O8:40:CYS:SG	57:O8:45:LYS:HE2	2.55	0.47
59:Q8:61:LEU:O	59:Q8:63:PRO:HD3	2.15	0.47
1:1G:142:G:H2'	1:1G:143:A:H8	1.78	0.47
1:1G:450:G:N7	1:1G:481:G:C6	2.83	0.47
1:1G:865:A:O5'	1:1G:865:A:H8	1.97	0.47
1:1G:1109:C:H2'	1:1G:1110:A:O4'	2.13	0.47
1:1G:1321:C:N4	1:1G:1322:C:N4	2.63	0.47
1:1G:1326:C:OP1	21:1B:12:LYS:HE3	2.14	0.47
4:32:28:SER:HA	4:32:29:PRO:HA	1.61	0.47
4:32:31:CYS:HB2	4:32:33:MET:H	1.80	0.47
6:52:1:MET:HG2	6:52:68:PRO:HA	1.97	0.47
8:72:97:VAL:O	8:72:100:ILE:HG13	2.15	0.47
10:1A:78:ASN:C	10:1A:80:LYS:H	2.23	0.47
14:5A:53:LEU:HD23	14:5A:53:LEU:HA	1.61	0.47
15:6A:25:THR:HG21	15:6A:70:LEU:HB2	1.95	0.47
17:8A:56:VAL:HG21	17:8A:81:ARG:HG3	1.97	0.47
22:1L:27:A:H61	22:1L:45:C:H42	1.63	0.47
24:3L:49:C:H5"	24:3L:49:C:O2	2.15	0.47
26:14:26:G:C6	26:14:27:G:N1	2.83	0.47
26:14:131:G:OP2	63:14:3896:HOH:O	2.21	0.47
26:14:662:G:H5'	40:35:15:ARG:CA	2.45	0.47
26:14:673:C:H4'	31:39:82:ILE:CG1	2.44	0.47
26:14:1812:A:H2'	26:14:1813:G:H8	1.80	0.47
26:14:2295:C:H41	43:65:13:ARG:HH22	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2357:U:P	51:E5:20:ARG:HH11	2.36	0.47
26:14:2441:C:OP2	26:14:2586:C:O2'	2.27	0.47
26:14:2614:A:H3'	63:14:3791:HOH:O	2.15	0.47
26:14:2776:A:H4'	26:14:2777:G:O5'	2.15	0.47
26:14:2836:U:H2'	26:14:2837:G:C8	2.50	0.47
27:1J:116:G:H2'	27:1J:117:G:O4'	2.14	0.47
29:19:85:ASP:OD1	29:19:87:ASN:ND2	2.48	0.47
30:29:12:THR:C	30:29:23:VAL:HG22	2.40	0.47
31:39:8:GLN:HB3	31:39:124:LEU:HD11	1.96	0.47
32:49:44:GLY:C	32:49:46:ALA:H	2.23	0.47
33:59:54:ARG:HB3	33:59:65:HIS:HB2	1.95	0.47
33:59:102:ALA:HB2	33:59:116:GLU:HA	1.97	0.47
35:69:4:ILE:HG23	35:69:18:VAL:HG22	1.97	0.47
43:65:77:ALA:O	43:65:80:LEU:N	2.47	0.47
44:75:5:ALA:O	44:75:8:LYS:N	2.48	0.47
49:C5:62:GLU:CD	49:C5:63:LYS:H	2.23	0.47
50:D5:98:MET:HE2	50:D5:100:VAL:HG22	1.97	0.47
1:13:243:A:H4'	1:13:244:U:H3'	1.97	0.47
1:13:1178:G:N2	1:13:1181:G:C8	2.80	0.47
2:1E:17:PHE:CD2	2:1E:44:LEU:HD21	2.50	0.47
4:3E:196:LEU:C	4:3E:198:VAL:H	2.23	0.47
7:6E:31:MET:HE1	7:6E:36:LYS:NZ	2.30	0.47
17:8I:55:ASP:HA	17:8I:79:SER:HA	1.96	0.47
21:1F:5:ASP:O	21:1F:11:GLY:HA3	2.15	0.47
26:1H:349:G:H2'	26:1H:350:U:O4'	2.15	0.47
26:1H:616:A:C4	31:31:180:GLY:HA2	2.50	0.47
26:1H:1045:A:O5'	26:1H:1046:A:H5'	2.15	0.47
26:1H:1678:G:H21	26:1H:1989:G:H22	1.57	0.47
33:51:9:ILE:HG23	33:51:51:ARG:HB3	1.96	0.47
37:48:82:ALA:O	37:48:84:LEU:N	2.48	0.47
40:78:71:VAL:CG1	40:78:72:PRO:HD3	2.45	0.47
50:H8:165:VAL:HA	50:H8:167:PRO:HD3	1.97	0.47
1:1G:673:G:H5"	6:52:87:ARG:CZ	2.44	0.47
1:1G:1099:G:C6	1:1G:1100:C:N3	2.83	0.47
1:1G:1238:A:H2	1:1G:1241:G:N3	2.12	0.47
1:1G:1306:A:H1'	1:1G:1332:A:C6	2.49	0.47
1:1G:1443:G:H22	44:75:119:LYS:HB2	1.80	0.47
1:1G:1523:G:OP1	11:2A:123:LYS:HD2	2.15	0.47
5:42:60:TYR:HB3	5:42:64:ARG:CZ	2.44	0.47
6:52:21:LEU:HD22	6:52:21:LEU:HA	1.71	0.47
17:8A:59:ILE:CG2	17:8A:71:PHE:HB3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:459:U:H2'	26:14:460:A:H8	1.80	0.47
26:14:910:A:C5	41:45:13:GLN:HG3	2.50	0.47
26:14:1019:U:H2'	26:14:1020:A:H8	1.79	0.47
26:14:1215:G:C4	26:14:1216:G:C8	3.03	0.47
26:14:1252:G:N3	45:85:33:ARG:HD2	2.30	0.47
26:14:1316:U:H2'	26:14:1317:A:H8	1.79	0.47
26:14:1751:C:H2'	26:14:1752:C:C6	2.50	0.47
26:14:1926:U:O2'	26:14:1928:A:N7	2.43	0.47
26:14:2401:U:H2'	26:14:2402:C:H5"	1.96	0.47
26:14:2629:A:H1'	26:14:2895:U:O4	2.15	0.47
32:49:83:ARG:HB2	32:49:86:MET:HE3	1.96	0.47
32:49:122:PRO:HG3	32:49:181:ARG:CZ	2.45	0.47
40:35:95:VAL:HG12	40:35:125:VAL:HA	1.95	0.47
43:65:7:TYR:CZ	43:65:91:PRO:HG3	2.50	0.47
43:65:102:ALA:O	43:65:105:ALA:N	2.48	0.47
49:C5:37:VAL:HG23	49:C5:67:LEU:HB3	1.96	0.47
53:G5:4:SER:OG	53:G5:5:GLU:OE1	2.13	0.47
53:G5:45:SER:O	53:G5:45:SER:OG	2.32	0.47
1:13:9:G:C2	1:13:26:A:C6	3.02	0.47
1:13:114:U:O2'	1:13:115:G:H5'	2.15	0.47
1:13:555:C:P	12:3I:20:LYS:HZ1	2.37	0.47
1:13:660:G:OP1	15:6I:5:LYS:HD3	2.15	0.47
1:13:1316:G:N2	1:13:1319:A:OP2	2.38	0.47
10:1I:3:LYS:O	10:1I:100:THR:HA	2.14	0.47
20:BI:43:LEU:HD12	20:BI:51:GLU:HB3	1.96	0.47
22:1K:14:A:O2'	22:1K:15:G:C8	2.66	0.47
26:1H:36:G:C5	26:1H:37:C:C5	3.03	0.47
26:1H:49:A:H4'	26:1H:50:U:H5"	1.97	0.47
26:1H:197:A:H62	26:1H:2430:A:H2'	1.79	0.47
26:1H:354:G:H2'	26:1H:355:G:H8	1.80	0.47
26:1H:547:A:H2'	26:1H:548:A:C8	2.50	0.47
26:1H:861:A:N3	27:16:79:C:O2'	2.47	0.47
26:1H:934:G:H2'	26:1H:935:C:H6	1.80	0.47
26:1H:957:A:N1	26:1H:2458:G:H4'	2.30	0.47
26:1H:1050:A:C8	26:1H:2751:G:C4	3.03	0.47
26:1H:2102:U:H2'	26:1H:2103:C:C6	2.50	0.47
26:1H:2213:U:H1'	52:J8:52:ARG:CZ	2.45	0.47
26:1H:2788:C:O2'	26:1H:2809:A:N3	2.43	0.47
27:16:72:G:C4	63:16:330:HOH:O	2.66	0.47
29:11:154:LYS:HB2	29:11:155:LEU:HD12	1.97	0.47
31:31:59:TYR:CD1	31:31:78:ILE:HD11	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:68:8:LEU:N	39:68:8:LEU:HD23	2.30	0.47
43:A8:67:ARG:O	43:A8:71:ARG:HG3	2.15	0.47
44:B8:5:ALA:O	44:B8:6:LEU:C	2.58	0.47
48:F8:23:GLU:H	48:F8:23:GLU:HG2	1.35	0.47
52:J8:85:LEU:HD13	52:J8:85:LEU:HA	1.50	0.47
55:M8:23:GLU:HG2	55:M8:25:TYR:HD2	1.80	0.47
58:P8:8:ASN:OD1	58:P8:8:ASN:C	2.57	0.47
1:1G:529:G:HO2'	1:1G:533:A:N6	2.13	0.47
1:1G:1023:G:C4	1:1G:1024:G:H1'	2.50	0.47
1:1G:1328:C:OP1	21:1B:21:TYR:OH	2.31	0.47
2:12:32:ILE:HD11	2:12:34:ALA:O	2.15	0.47
2:12:137:ARG:HH12	2:12:141:GLU:HB2	1.80	0.47
5:42:103:GLY:O	5:42:106:PRO:HD2	2.14	0.47
8:72:7:ALA:O	8:72:11:THR:OG1	2.33	0.47
26:14:273(C):C:H5'	26:14:273(D):C:OP2	2.15	0.47
26:14:574:C:P	63:14:3741:HOH:O	2.70	0.47
26:14:827:U:OP2	26:14:828:U:C5	2.68	0.47
26:14:1639:U:OP1	63:14:3887:HOH:O	2.20	0.47
26:14:1753:G:N1	26:14:1756:G:C2	2.83	0.47
26:14:1959:G:H2'	26:14:1960:A:H5"	1.97	0.47
26:14:2209:C:O2	26:14:2216:G:C2	2.68	0.47
27:1J:42:C:N3	32:49:91:ARG:NH2	2.62	0.47
30:29:36:ARG:HD3	30:29:85:ASN:OD1	2.14	0.47
31:39:64:ILE:C	31:39:65:TRP:CD1	2.93	0.47
33:59:87:LEU:HA	33:59:163:TYR:O	2.15	0.47
33:59:153:LYS:N	33:59:154:PRO:HD3	2.30	0.47
40:35:80:TYR:CD1	40:35:111:ARG:HB2	2.50	0.47
41:45:32:TYR:HE2	41:45:109:VAL:HG23	1.79	0.47
48:B5:12:VAL:HG23	48:B5:17:ALA:HB2	1.97	0.47
52:F5:16:ASN:HB3	52:F5:37:ILE:HD11	1.96	0.47
1:13:272:C:H2'	1:13:273:A:C8	2.50	0.47
1:13:277:C:OP1	17:8I:41:LYS:HE2	2.15	0.47
1:13:947:G:OP1	13:4I:108:ARG:HB3	2.14	0.47
1:13:1003:G:H1	1:13:1037:C:H42	1.62	0.47
1:13:1012:U:H2'	1:13:1013:G:C8	2.50	0.47
1:13:1028(B):C:H41	1:13:1032(A):G:H21	1.63	0.47
1:13:1345:U:H4'	1:13:1346:A:H5'	1.96	0.47
1:13:1399:C:C2	1:13:1502:A:N6	2.82	0.47
2:1E:19:HIS:CD2	2:1E:206:ASP:HB2	2.50	0.47
10:1I:54:PHE:CE1	10:1I:55:LYS:HE3	2.50	0.47
12:3I:110:VAL:CG2	12:3I:120:TYR:HB3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:273:G:H1	26:1H:364:C:N4	2.13	0.47
26:1H:831:G:OP1	63:1H:3971:HOH:O	2.21	0.47
26:1H:1021:A:C8	26:1H:1022:G:H5"	2.49	0.47
26:1H:1486:A:H2'	26:1H:1487:G:H8	1.79	0.47
26:1H:1726:G:H2'	26:1H:1727:U:O4'	2.14	0.47
26:1H:1879:C:H2'	26:1H:1880:C:O4'	2.15	0.47
26:1H:2250:G:C6	41:88:83:MET:HB3	2.50	0.47
26:1H:2693:A:H2'	26:1H:2694:G:H8	1.80	0.47
26:1H:2808:U:H2'	26:1H:2809:A:H8	1.80	0.47
26:1H:2820:A:OP2	42:98:2:ARG:NH1	2.47	0.47
26:1H:2860:A:C8	26:1H:2861:G:H1'	2.49	0.47
27:16:12:C:O2'	51:I8:74:ARG:HG2	2.15	0.47
30:21:92:THR:HG22	30:21:93:VAL:H	1.80	0.47
31:31:34:TRP:NE1	40:78:8:PRO:HD3	2.30	0.47
37:48:73:PRO:HB2	37:48:127:ILE:HD12	1.97	0.47
44:B8:26:ASP:HB2	44:B8:90:GLN:O	2.15	0.47
46:D8:21:ARG:HG2	46:D8:91:TYR:HE2	1.79	0.47
46:D8:49:THR:O	46:D8:50:PRO:C	2.58	0.47
46:D8:93:GLU:O	46:D8:94:LEU:HD23	2.14	0.47
53:K8:64:LEU:HD22	53:K8:68:ARG:HD2	1.96	0.47
54:L8:9:VAL:HG21	54:L8:55:ARG:HG3	1.97	0.47
55:M8:13:ARG:CZ	55:M8:22:ILE:HG23	2.45	0.47
1:1G:359:U:H2'	1:1G:360:A:H8	1.76	0.47
1:1G:689:C:OP1	11:2A:44:SER:OG	2.32	0.47
1:1G:1321:C:C4	1:1G:1322:C:C5	3.03	0.47
1:1G:1353:G:N2	1:1G:1354:C:O2	2.48	0.47
3:22:37:GLN:HG2	3:22:40:ARG:NH1	2.29	0.47
9:82:84:ALA:O	9:82:87:GLN:HB3	2.15	0.47
10:1A:63:PHE:HB3	14:5A:57:ARG:O	2.14	0.47
23:2L:12:G:H1'	26:14:1923:U:O2'	2.15	0.47
26:14:91:A:H2'	26:14:92:G:H8	1.80	0.47
26:14:1025:G:C4	26:14:1135:C:H1'	2.50	0.47
26:14:1075:C:H2'	26:14:1076:C:H6	1.80	0.47
26:14:1111:A:C5'	33:59:3:ARG:HD3	2.43	0.47
26:14:1138:G:C4	26:14:1139:G:H1'	2.50	0.47
26:14:1567:A:O2'	29:19:63:ARG:NH2	2.48	0.47
26:14:1790:C:H2'	26:14:1791:A:C5	2.50	0.47
29:19:3:VAL:HG23	29:19:200:ASP:OD2	2.14	0.47
35:69:10:GLU:O	35:69:11:ASN:HB2	2.14	0.47
49:C5:39:VAL:O	49:C5:40:GLU:HB2	2.15	0.47
1:13:983:A:H5'	1:13:984:C:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:166:ASP:OD2	2:1E:169:LYS:HG3	2.15	0.46
5:4E:152:ARG:HA	8:7E:64:LYS:HZ3	1.80	0.46
8:7E:120:THR:N	8:7E:123:GLU:HG3	2.26	0.46
9:8E:19:LEU:HD12	9:8E:84:ALA:HB3	1.97	0.46
9:8E:42:ARG:NH1	9:8E:71:SER:OG	2.47	0.46
16:7I:42:ARG:O	16:7I:44:THR:HG23	2.15	0.46
24:3K:7:G:C4	24:3K:50:G:N7	2.83	0.46
26:1H:239:U:H2'	26:1H:240:G:C8	2.50	0.46
26:1H:946:G:OP1	63:1H:3736:HOH:O	2.20	0.46
26:1H:1189:A:P	63:1H:3913:HOH:O	2.73	0.46
26:1H:1337:G:H2'	26:1H:1338:G:H8	1.80	0.46
26:1H:2394:C:H2'	26:1H:2395:C:H6	1.80	0.46
29:11:126:GLN:HG2	29:11:127:VAL:N	2.30	0.46
29:11:260:ARG:NH1	29:11:267:SER:OG	2.47	0.46
30:21:101:ARG:HB3	30:21:201:THR:OG1	2.15	0.46
34:18:5:ILE:H	34:18:5:ILE:HD12	1.79	0.46
34:28:17:VAL:C	34:28:19:GLU:N	2.72	0.46
38:58:15:LEU:C	38:58:16:ILE:HG13	2.39	0.46
1:1G:1261:A:H5'	1:1G:1283:G:O3'	2.15	0.46
2:12:5:ILE:HD13	2:12:55:PHE:HB3	1.97	0.46
2:12:78:GLN:O	2:12:94:ASN:ND2	2.48	0.46
9:82:28:VAL:CG2	9:82:63:ILE:HB	2.43	0.46
10:1A:6:ILE:HG23	10:1A:98:ILE:HG23	1.97	0.46
10:1A:38:ILE:HB	10:1A:71:LEU:O	2.15	0.46
11:2A:33:THR:HA	11:2A:39:PRO:HA	1.96	0.46
11:2A:98:LEU:C	11:2A:101:SER:HG	2.14	0.46
20:BA:25:ARG:HG3	20:BA:29:LYS:NZ	2.29	0.46
20:BA:64:ASP:OD2	20:BA:81:LYS:HD2	2.13	0.46
22:1L:5:C:C2'	22:1L:6:C:H5'	2.45	0.46
22:1L:69:G:H2'	22:1L:70:A:C8	2.50	0.46
23:2L:1:C:H4'	41:45:87:LYS:NZ	2.30	0.46
26:14:29:U:H2'	26:14:30:G:C8	2.50	0.46
26:14:631:A:N3	26:14:2415:G:O2'	2.44	0.46
26:14:1170:G:C2'	26:14:1171:G:H5'	2.44	0.46
26:14:1448:G:H1'	26:14:1528:A:H62	1.80	0.46
26:14:1537:C:H2'	26:14:1538:G:C8	2.50	0.46
26:14:1970:A:P	63:14:3793:HOH:O	2.70	0.46
26:14:2287:A:N6	26:14:2344:U:N3	2.54	0.46
26:14:2419:U:H5"	59:M5:34:TRP:H	1.80	0.46
33:59:89:ILE:HG23	33:59:129:THR:O	2.15	0.46
39:25:104:ARG:CZ	39:25:104:ARG:HB2	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:65:21:THR:C	43:65:23:ARG:N	2.73	0.46
47:A5:47:VAL:HA	47:A5:50:VAL:HG12	1.97	0.46
50:D5:107:THR:N	50:D5:108:PRO:HD3	2.31	0.46
51:E5:12:ASN:HA	51:E5:14:ARG:NH2	2.17	0.46
1:13:128:G:HO2'	17:8I:3:LYS:HZ3	1.56	0.46
1:13:250:A:H5'	1:13:250:A:H8	1.80	0.46
1:13:295:C:H2'	1:13:296:U:O4'	2.14	0.46
1:13:498:A:H4'	1:13:500:G:OP1	2.14	0.46
1:13:558:G:H2'	1:13:559:A:H2	1.80	0.46
1:13:673:G:H2'	1:13:674:G:C8	2.50	0.46
1:13:1003:G:N1	1:13:1036:G:O6	2.48	0.46
3:2E:95:THR:HB	3:2E:97:LYS:HG3	1.97	0.46
4:3E:65:ARG:HG3	4:3E:70:ILE:HG22	1.98	0.46
4:3E:96:LEU:HG	4:3E:139:ARG:HH12	1.80	0.46
4:3E:209:ARG:HE	4:3E:209:ARG:CA	2.28	0.46
7:6E:5:ARG:HH21	7:6E:8:GLU:HG2	1.81	0.46
10:1I:63:PHE:HB3	14:5I:57:ARG:O	2.15	0.46
12:3I:10:LEU:HD23	17:8I:32:TYR:CZ	2.50	0.46
26:1H:67:U:H2'	26:1H:68:G:H8	1.80	0.46
26:1H:330:A:O2'	26:1H:331:A:C8	2.57	0.46
26:1H:890:A:C8	26:1H:892:G:C8	3.00	0.46
26:1H:2069:G:H4'	63:1H:4282:HOH:O	2.13	0.46
26:1H:2126:A:H1'	26:1H:2162:G:H21	1.80	0.46
26:1H:2469:A:O2'	41:88:56:ARG:HG2	2.16	0.46
26:1H:2784:C:H5"	30:21:41:LYS:NZ	2.30	0.46
26:1H:2846:G:H2'	26:1H:2847:U:O4'	2.16	0.46
29:11:35:LYS:HB2	29:11:62:TYR:O	2.15	0.46
29:11:35:LYS:HA	29:11:64:ILE:HG22	1.97	0.46
31:31:177:ALA:HB1	31:31:178:PRO:HD2	1.97	0.46
37:48:76:TYR:C	37:48:78:ILE:H	2.22	0.46
37:48:117:THR:HG23	37:48:122:ALA:HB1	1.97	0.46
41:88:5:ARG:O	41:88:7:MET:N	2.48	0.46
42:98:50:HIS:NE2	42:98:54:LEU:HD21	2.30	0.46
50:H8:11:GLU:HG2	50:H8:36:LYS:HZ1	1.80	0.46
51:I8:48:GLY:N	51:I8:79:VAL:O	2.45	0.46
53:K8:47:ASN:C	53:K8:49:LYS:H	2.22	0.46
1:1G:144:G:H1	1:1G:178:C:N4	2.14	0.46
1:1G:719:C:C5	1:1G:720:C:C4	3.03	0.46
1:1G:837:G:H2'	1:1G:838:G:O4'	2.15	0.46
1:1G:1095:U:H2'	1:1G:1096:C:H6	1.79	0.46
1:1G:1227:A:O2'	13:4A:115:LYS:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:85:ALA:HB1	2:12:92:TYR:HB3	1.96	0.46
26:14:188:G:H5'	52:F5:14:VAL:HG21	1.97	0.46
26:14:511:U:H3'	26:14:512:G:H5"	1.97	0.46
26:14:1830:C:O5'	26:14:1830:C:H6	1.98	0.46
26:14:2165:G:H8	26:14:2166:G:H5'	1.80	0.46
26:14:2352:A:N3	51:E5:33:ALA:HB1	2.30	0.46
33:59:95:ARG:HE	33:59:95:ARG:HB3	1.42	0.46
39:25:22:ILE:HD12	39:25:22:ILE:HA	1.49	0.46
45:85:88:ILE:HG23	45:85:90:VAL:HB	1.97	0.46
49:C5:8:LYS:HE2	49:C5:8:LYS:HB3	1.78	0.46
54:H5:37:LEU:HD13	54:H5:43:ILE:HG21	1.97	0.46
1:13:115:G:C2	1:13:289:G:N7	2.84	0.46
1:13:626:U:N3	1:13:627:G:N7	2.63	0.46
1:13:872:A:C4	1:13:874:G:N7	2.83	0.46
1:13:1074:G:O2'	1:13:1101:A:N1	2.45	0.46
1:13:1244:C:H2'	1:13:1245:A:C8	2.51	0.46
1:13:1375:A:P	7:6E:28:ASN:HD22	2.38	0.46
4:3E:26:CYS:HA	61:3E:303:SF4:S3	2.55	0.46
9:8E:33:PHE:HE2	9:8E:47:LEU:HD21	1.80	0.46
15:6I:6:GLU:O	15:6I:10:LYS:HG2	2.15	0.46
26:1H:141(A):C:H2'	26:1H:142:G:O4'	2.16	0.46
26:1H:606:U:H4'	26:1H:658:C:H4'	1.98	0.46
26:1H:842:G:H2'	26:1H:843:G:O4'	2.16	0.46
26:1H:844:C:H2'	26:1H:845:G:O4'	2.15	0.46
26:1H:1021:A:C8	26:1H:1021:A:C3'	2.96	0.46
26:1H:1514:U:H2'	26:1H:1515:C:H6	1.80	0.46
26:1H:1899:G:N2	26:1H:1902:C:H5	2.13	0.46
26:1H:2402:C:O2'	26:1H:2403:C:OP1	2.33	0.46
29:11:244:ARG:HB2	29:11:245:PRO:HD2	1.97	0.46
30:21:108:SER:O	30:21:162:ALA:HA	2.15	0.46
38:58:67:LEU:HA	38:58:87:LEU:HD12	1.98	0.46
38:58:95:PRO:O	38:58:98:VAL:HG12	2.16	0.46
39:68:112:MET:H	39:68:112:MET:HG2	1.38	0.46
40:78:15:ARG:O	40:78:16:ARG:C	2.59	0.46
44:B8:70:VAL:HG12	44:B8:71:GLY:O	2.15	0.46
1:1G:160:A:H2'	1:1G:161:A:O4'	2.15	0.46
1:1G:619:U:O2	4:32:135:LEU:HD22	2.15	0.46
1:1G:630:G:H2'	1:1G:631:G:H2'	1.96	0.46
1:1G:843:U:H3'	1:1G:848:C:O4'	2.15	0.46
1:1G:1189:C:H5"	1:1G:1190:G:OP2	2.15	0.46
1:1G:1329:A:H2'	1:1G:1330:U:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1349:A:H2'	1:1G:1350:A:O4'	2.16	0.46
4:32:148:VAL:HG12	4:32:152:SER:OG	2.16	0.46
9:82:99:LEU:HB3	9:82:101:PHE:CD1	2.50	0.46
10:1A:89:ASP:C	10:1A:91:PRO:HD3	2.40	0.46
13:4A:13:LYS:O	13:4A:45:VAL:HG23	2.15	0.46
22:1L:31:G:N2	22:1L:41:C:N3	2.57	0.46
22:1L:49:C:H2'	22:1L:60:A:H4'	1.96	0.46
26:14:363:G:H2'	26:14:363(A):A:C8	2.47	0.46
26:14:597:U:H2'	26:14:598:G:C8	2.50	0.46
26:14:675:A:N3	26:14:2443:C:O2'	2.43	0.46
26:14:941:A:H2'	26:14:942:G:C8	2.51	0.46
26:14:957:A:C6	26:14:2459:A:C8	3.04	0.46
26:14:1055:G:N2	26:14:1085:A:O2'	2.48	0.46
26:14:1314:C:H5"	63:14:4010:HOH:O	2.15	0.46
26:14:1564:C:O2'	26:14:1565:C:H5'	2.16	0.46
26:14:1859:A:N6	26:14:1883:G:O2'	2.48	0.46
26:14:2058:A:OP1	63:14:3890:HOH:O	2.20	0.46
26:14:2107:C:H42	26:14:2182:G:H1	1.63	0.46
26:14:2269:A:P	63:14:3788:HOH:O	2.73	0.46
26:14:2280:G:O2'	26:14:2388:A:N1	2.35	0.46
40:35:13:ASN:C	40:35:15:ARG:N	2.70	0.46
41:45:3:MET:HE2	41:45:3:MET:HB3	1.82	0.46
41:45:135:ASP:HB2	50:D5:49:ARG:HH12	1.80	0.46
42:55:38:VAL:HG22	42:55:112:ALA:HB2	1.97	0.46
42:55:103:ARG:CZ	42:55:110:PRO:HD3	2.45	0.46
43:65:5:THR:O	43:65:8:GLU:N	2.48	0.46
43:65:11:LYS:HG3	43:65:91:PRO:HD3	1.96	0.46
44:75:99:LEU:HD22	44:75:101:PHE:HE1	1.80	0.46
56:J5:31:VAL:HG13	56:J5:42:PRO:HG3	1.96	0.46
1:13:109:A:N7	1:13:326:G:H2'	2.30	0.46
1:13:636:U:H2'	1:13:637:G:H8	1.80	0.46
1:13:983:A:H1'	1:13:1049:U:O2	2.15	0.46
1:13:1409:C:H2'	1:13:1410:G:C8	2.50	0.46
3:2E:35:GLU:O	3:2E:38:ARG:N	2.48	0.46
11:2I:21:ILE:HG12	11:2I:30:VAL:CG1	2.43	0.46
23:2K:17:C:H4'	23:2K:18:C:OP2	2.16	0.46
26:1H:609(A):G:H2'	26:1H:610:C:C6	2.50	0.46
26:1H:1058:U:H2'	26:1H:1059:G:C8	2.50	0.46
26:1H:1354:A:O3'	29:11:39:LYS:HE3	2.16	0.46
26:1H:1439:A:C2	26:1H:1553:A:C5	3.04	0.46
26:1H:1508:A:H4'	26:1H:1509:C:C1'	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2876:G:O5'	44:B8:2:ASN:HA	2.15	0.46
29:11:98:VAL:C	29:11:100:GLY:H	2.24	0.46
31:31:39:TRP:O	31:31:43:LYS:HG2	2.16	0.46
31:31:129:PHE:O	31:31:142:TRP:CD1	2.68	0.46
33:51:4:ILE:HG21	33:51:6:ARG:CZ	2.45	0.46
35:61:33:ARG:O	35:61:35:LEU:N	2.49	0.46
36:38:108:LYS:HG2	36:38:109:SER:HB3	1.96	0.46
43:A8:65:VAL:O	43:A8:69:VAL:HG12	2.16	0.46
45:C8:58:ARG:HA	45:C8:61:TRP:CE3	2.50	0.46
49:G8:54:LYS:O	49:G8:55:TYR:CD2	2.69	0.46
55:M8:16:CYS:C	55:M8:18:CYS:H	2.23	0.46
59:Q8:16:ILE:HD13	59:Q8:59:LYS:HG3	1.96	0.46
1:1G:131:C:O2'	1:1G:262:A:N3	2.45	0.46
1:1G:192:U:H2'	1:1G:193:C:H6	1.80	0.46
1:1G:197:A:H8	1:1G:198:G:N9	2.13	0.46
1:1G:695:A:H2'	1:1G:696:A:C8	2.50	0.46
1:1G:868:C:H2'	1:1G:869:G:O4'	2.15	0.46
1:1G:1251:A:H2'	1:1G:1252:A:C8	2.51	0.46
1:1G:1322:C:O2	1:1G:1322:C:H2'	2.15	0.46
2:12:82:ARG:HA	2:12:92:TYR:CE2	2.51	0.46
3:22:121:ALA:HB2	3:22:198:VAL:CG2	2.46	0.46
4:32:30:LYS:HB3	4:32:35:ARG:NH1	2.30	0.46
4:32:160:GLN:HA	4:32:163:GLU:HB2	1.96	0.46
5:42:122:GLU:O	5:42:126:ARG:NH1	2.49	0.46
8:72:8:ASP:O	8:72:12:ARG:HG3	2.15	0.46
8:72:73:ASP:OD1	8:72:75:ARG:HB2	2.15	0.46
9:82:5:TYR:HE1	9:82:16:ARG:HG2	1.80	0.46
9:82:55:ALA:O	9:82:57:GLY:N	2.48	0.46
10:1A:9:ARG:O	10:1A:95:GLU:HB3	2.15	0.46
22:1L:6:C:O2'	22:1L:7:G:H8	1.98	0.46
23:2L:54:G:H2'	23:2L:55:5MU:C6	2.49	0.46
24:3L:42:G:C6	24:3L:43:A:C5	3.03	0.46
26:14:108:U:H2'	26:14:109:G:C8	2.50	0.46
26:14:333:G:H5"	26:14:334:C:OP2	2.15	0.46
26:14:623:G:H2'	26:14:624:C:C6	2.50	0.46
26:14:637:A:OP1	40:35:133:SER:OG	2.23	0.46
26:14:1007:C:OP1	38:15:35:ARG:NH1	2.48	0.46
26:14:1048:A:H61	33:59:2:SER:HB2	1.80	0.46
26:14:1328:G:H2'	26:14:1330:C:C4	2.50	0.46
26:14:1742:C:H5'	26:14:1743:G:OP2	2.15	0.46
26:14:2233:U:H2'	26:14:2234:G:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2683:C:OP1	44:75:53:ARG:NH2	2.48	0.46
26:14:2861:G:C2	26:14:2862:G:C4	3.03	0.46
30:29:53:PRO:HA	30:29:74:PRO:HB3	1.97	0.46
41:45:110:THR:H	41:45:113:GLN:HE21	1.62	0.46
43:65:16:ASN:C	43:65:18:ILE:N	2.73	0.46
43:65:27:SER:HA	43:65:88:ASP:HB2	1.97	0.46
51:E5:72:ARG:HH21	51:E5:75:LEU:HD12	1.81	0.46
52:F5:67:ILE:HA	52:F5:67:ILE:HD13	1.76	0.46
59:M5:22:VAL:HB	59:M5:55:ALA:HB1	1.97	0.46
1:13:154:C:N4	1:13:167:G:H1	2.13	0.46
1:13:609:A:C2'	1:13:610:G:H5'	2.45	0.46
1:13:727:G:N2	1:13:730:G:OP2	2.41	0.46
1:13:952:U:C5	13:4I:104:ARG:NH1	2.83	0.46
2:1E:28:PHE:CD2	2:1E:190:THR:HA	2.50	0.46
2:1E:189:ASP:OD1	2:1E:205:ASP:HB3	2.14	0.46
3:2E:19:GLU:O	3:2E:40:ARG:NH2	2.48	0.46
3:2E:119:ARG:O	3:2E:123:GLN:HG3	2.16	0.46
6:5E:30:LEU:HB3	6:5E:35:ALA:HB3	1.96	0.46
12:3I:111:LYS:HD2	12:3I:111:LYS:HA	1.78	0.46
26:1H:996:A:H4'	45:C8:92:ARG:NE	2.30	0.46
26:1H:1177:A:H5'	26:1H:1178:C:OP1	2.16	0.46
26:1H:1202:C:N4	26:1H:1203:G:C6	2.84	0.46
26:1H:1410:G:H2'	26:1H:1411:C:C6	2.51	0.46
26:1H:2117:A:H2'	26:1H:2147:G:H21	1.80	0.46
26:1H:2134:A:N9	26:1H:2158:A:H2	2.14	0.46
26:1H:2211:G:O2'	26:1H:2212:A:OP1	2.31	0.46
27:16:13:A:O2'	27:16:15:A:H5"	2.16	0.46
30:21:96:PHE:O	30:21:175:VAL:HG11	2.16	0.46
32:41:62:LEU:HD23	32:41:148:MET:HE1	1.97	0.46
32:41:66:GLN:HA	55:M8:6:HIS:HE1	1.79	0.46
33:51:167:GLU:N	33:51:167:GLU:CD	2.72	0.46
43:A8:8:GLU:O	43:A8:11:LYS:HB3	2.15	0.46
50:H8:113:ALA:N	50:H8:114:GLY:HA2	2.30	0.46
52:J8:87:PRO:HB2	52:J8:91:LYS:NZ	2.31	0.46
56:N8:40:LYS:NZ	56:N8:48:GLU:H	2.14	0.46
4:32:21:LEU:HD12	4:32:21:LEU:H	1.79	0.46
11:2A:17:GLY:N	11:2A:79:SER:O	2.48	0.46
14:5A:42:ILE:H	14:5A:42:ILE:HG12	1.45	0.46
15:6A:82:ILE:O	15:6A:86:GLY:N	2.48	0.46
19:AA:58:VAL:O	19:AA:60:VAL:HG22	2.16	0.46
26:14:303:U:H2'	26:14:304:G:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:589:C:H5”	31:39:95:ARG:HH12	1.80	0.46
26:14:676:A:H2	26:14:802:A:H61	1.62	0.46
26:14:997:G:OP1	45:85:93:LYS:HB2	2.14	0.46
26:14:1519:G:C6	26:14:1520:U:C4	3.03	0.46
26:14:2819:G:N7	63:14:4038:HOH:O	2.35	0.46
30:29:111:ARG:HB2	30:29:160:TYR:O	2.15	0.46
31:39:102:PRO:HB2	31:39:105:VAL:HG23	1.97	0.46
38:15:96:GLU:H	38:15:96:GLU:CD	2.21	0.46
41:45:21:THR:HA	41:45:98:LYS:HB2	1.98	0.46
43:65:61:ASN:OD1	43:65:64:GLU:HG2	2.15	0.46
49:C5:59:GLY:O	49:C5:60:PHE:HB2	2.14	0.46
1:13:303:A:H2’	1:13:304:U:O4’	2.15	0.46
1:13:429:U:H3’	4:3E:9:CYS:SG	2.56	0.46
1:13:580:U:H2’	1:13:581:G:O4’	2.15	0.46
1:13:954:G:H21	1:13:1227:A:H62	1.62	0.46
1:13:1027:C:H1’	1:13:1028:C:C5	2.50	0.46
1:13:1207:G:H2’	1:13:1208:C:C6	2.50	0.46
2:1E:185:ILE:HA	2:1E:199:TYR:O	2.14	0.46
4:3E:153:ARG:HB3	4:3E:181:MET:SD	2.56	0.46
5:4E:10:MET:HB2	5:4E:10:MET:HE2	1.45	0.46
13:4I:23:TYR:CD2	13:4I:67:GLU:HA	2.49	0.46
18:9I:26:LEU:HD13	18:9I:42:ARG:HD2	1.98	0.46
26:1H:1889:A:H2’	26:1H:1890:A:C8	2.50	0.46
26:1H:2022:U:O2’	26:1H:2617:C:H5’	2.15	0.46
26:1H:2287:A:H2	26:1H:2346:A:H2	1.62	0.46
27:16:95:U:H2’	27:16:96:G:C8	2.50	0.46
28:71:177:LYS:HB3	28:71:180:PHE:CZ	2.51	0.46
34:18:20:LEU:C	34:18:24:ILE:HG22	2.40	0.46
40:78:78:PRO:HB3	40:78:111:ARG:NH2	2.30	0.46
41:88:116:GLU:CD	41:88:119:ARG:HH21	2.22	0.46
44:B8:41:ARG:HH12	44:B8:43:GLN:HG3	1.78	0.46
50:H8:51:ALA:HB1	50:H8:57:ILE:HD11	1.98	0.46
50:H8:63:ASP:O	50:H8:65:GLN:N	2.48	0.46
53:K8:15:LYS:N	53:K8:15:LYS:HZ3	2.13	0.46
1:1G:735:C:H2’	1:1G:736:C:H6	1.81	0.46
1:1G:859:A:C4	1:1G:860:A:C8	3.03	0.46
1:1G:1305:G:HO2’	1:1G:1306:A:P	2.39	0.46
1:1G:1326:C:H2’	1:1G:1327:C:C6	2.50	0.46
4:32:158:ILE:HA	4:32:161:ASN:HB2	1.97	0.46
5:42:19:MET:HE1	5:42:24:ARG:HG2	1.98	0.46
9:82:43:ALA:HA	9:82:74:ILE:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:7A:74:LEU:HD22	16:7A:79:VAL:HG21	1.97	0.46
19:AA:20:LEU:HD22	19:AA:20:LEU:H	1.78	0.46
26:14:191:A:H2'	26:14:192:C:C6	2.51	0.46
26:14:397:G:O2'	26:14:2231:C:H1'	2.16	0.46
26:14:480:A:H5'	49:C5:46:LYS:NZ	2.31	0.46
26:14:996:A:H2'	26:14:997:G:H8	1.80	0.46
26:14:1180:C:H2'	26:14:1181:C:C6	2.51	0.46
26:14:1664:A:OP2	63:14:3893:HOH:O	2.20	0.46
26:14:2101:G:H2'	26:14:2102:U:O4'	2.16	0.46
26:14:2296:U:H4'	26:14:2297:C:OP1	2.15	0.46
26:14:2314:C:O2'	26:14:2315:G:H5'	2.16	0.46
31:39:132:VAL:HG13	31:39:133:ASN:OD1	2.15	0.46
31:39:157:VAL:HG12	31:39:198:ALA:HB1	1.97	0.46
41:45:42:ILE:HD13	41:45:97:VAL:CG2	2.46	0.46
46:95:35:LEU:C	46:95:37:VAL:HG13	2.41	0.46
46:95:40:LEU:HD23	46:95:41:GLY:H	1.81	0.46
1:13:598:U:H4'	8:7E:94:TYR:CG	2.51	0.46
1:13:667:G:H4'	15:6I:51:HIS:ND1	2.31	0.46
1:13:1189:C:H5"	1:13:1190:G:OP2	2.15	0.46
1:13:1301:U:O2	1:13:1301:U:H2'	2.16	0.46
3:2E:76:VAL:HA	3:2E:83:ARG:HD3	1.96	0.46
6:5E:89:MET:HG3	18:9I:76:LEU:HD21	1.96	0.46
12:3I:7:ILE:HD11	17:8I:32:TYR:HB3	1.97	0.46
24:3K:62:C:O5'	24:3K:62:C:H6	1.97	0.46
26:1H:94:G:H21	53:K8:47:ASN:ND2	2.14	0.46
26:1H:250:G:H2'	26:1H:251:A:C8	2.51	0.46
26:1H:304:G:H2'	26:1H:305:U:C6	2.51	0.46
26:1H:671:C:OP1	40:78:42:SER:O	2.34	0.46
26:1H:1082:U:H3	26:1H:1086:A:H2	1.64	0.46
26:1H:2543:G:H2'	26:1H:2544:G:C8	2.50	0.46
26:1H:2836:U:H2'	26:1H:2837:G:C8	2.51	0.46
27:16:71:C:C4	27:16:72:G:N7	2.84	0.46
36:38:36:GLU:OE2	36:38:103:GLY:HA3	2.16	0.46
38:58:99:LEU:HD23	38:58:99:LEU:HA	1.72	0.46
45:C8:17:ILE:HG23	45:C8:39:LEU:HD12	1.97	0.46
59:Q8:46:ARG:HB2	59:Q8:47:LYS:HB2	1.97	0.46
1:1G:186(A):C:H2'	1:1G:186(B):C:C6	2.51	0.46
1:1G:926:G:C6	1:1G:1505:G:C6	3.03	0.46
1:1G:1207:G:C6	1:1G:1208:C:C4	3.04	0.46
10:1A:21:GLN:HA	10:1A:24:VAL:HB	1.98	0.46
12:3A:76:ASN:C	12:3A:77:LEU:HD23	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4A:29:ARG:HD3	13:4A:64:TRP:CE2	2.51	0.46
13:4A:83:ASP:CG	13:4A:84:ILE:N	2.73	0.46
26:14:11:G:H1'	26:14:2801:A:O3'	2.16	0.46
26:14:755:C:H2'	26:14:756:C:C6	2.50	0.46
26:14:1075:C:H5'	50:D5:190:GLU:OE1	2.14	0.46
26:14:1480:G:C6	26:14:1482:U:C4	3.03	0.46
26:14:2286:A:H4'	26:14:2287:A:O4'	2.16	0.46
26:14:2687:U:C4	26:14:2688:U:C5	3.03	0.46
30:29:54:GLN:NE2	30:29:72:VAL:O	2.46	0.46
39:25:97:ARG:HA	39:25:117:LEU:HD22	1.97	0.46
45:85:25:TRP:CD1	45:85:25:TRP:C	2.94	0.46
47:A5:58:ALA:O	47:A5:64:MET:HB2	2.15	0.46
50:D5:23:LYS:HB3	50:D5:38:TYR:CD2	2.51	0.46
52:F5:2:SER:O	52:F5:4:VAL:HG12	2.15	0.46
1:13:192:U:C4'	20:BI:103:GLY:HA2	2.45	0.46
1:13:253:U:OP2	17:8I:67:LYS:NZ	2.44	0.46
1:13:657:G:N2	1:13:749:C:O2	2.38	0.46
1:13:843:U:H3'	1:13:848:C:C6	2.51	0.46
3:2E:162:GLN:HG2	25:4K:25:A:N6	2.31	0.46
5:4E:145:LYS:HB3	5:4E:145:LYS:HE2	1.81	0.46
10:1I:46:ARG:HA	10:1I:64:GLU:HA	1.98	0.46
13:4I:11:ARG:HG2	13:4I:12:ASN:H	1.80	0.46
21:1F:2:GLY:C	21:1F:4:GLY:H	2.24	0.46
25:4K:24:A:O2'	25:4K:25:A:C2	2.64	0.46
26:1H:821:A:O2'	26:1H:946:G:OP2	2.28	0.46
26:1H:897:C:H2'	26:1H:898:C:O4'	2.16	0.46
26:1H:1352:U:P	63:1H:4004:HOH:O	2.74	0.46
26:1H:2352:A:C4	26:1H:2366:A:C2	3.03	0.46
26:1H:2383:G:O2'	26:1H:2384:G:H5'	2.15	0.46
26:1H:2718:G:O2'	26:1H:2847:U:OP1	2.24	0.46
26:1H:2830:G:C5'	26:1H:2830:G:H8	2.28	0.46
30:21:87:GLU:H	30:21:87:GLU:CD	2.21	0.46
32:41:113:ARG:HH12	32:41:142:PRO:HA	1.81	0.46
38:58:78:TYR:CD1	38:58:78:TYR:N	2.84	0.46
39:68:14:THR:O	39:68:52:VAL:HG22	2.16	0.46
42:98:62:ALA:O	42:98:66:VAL:HG23	2.16	0.46
1:1G:186:C:H1'	20:BA:81:LYS:HE2	1.97	0.46
1:1G:280:C:H3'	1:1G:281:G:H5'	1.98	0.46
1:1G:562:C:H1'	12:3A:15:ARG:HD2	1.98	0.46
1:1G:852:G:C6	1:1G:853:G:N7	2.84	0.46
1:1G:1298:C:H41	7:62:114:ARG:HB3	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1323:G:H2'	1:1G:1324:A:C8	2.51	0.46
2:12:67:THR:HG21	2:12:155:LEU:HD21	1.97	0.46
6:52:2:ARG:O	6:52:66:GLU:HA	2.15	0.46
13:4A:23:TYR:CD2	13:4A:70:LEU:HD23	2.50	0.46
13:4A:46:LYS:HE3	13:4A:46:LYS:HB2	1.77	0.46
13:4A:81:LEU:HB3	13:4A:89:GLY:HA3	1.98	0.46
16:7A:19:ILE:HG22	16:7A:36:ILE:HG13	1.97	0.46
18:9A:29:PHE:HD2	18:9A:39:VAL:HG11	1.81	0.46
23:2L:47:7MG:H3'	23:2L:48:U:C5	2.51	0.46
23:2L:47:7MG:H3'	23:2L:48:U:C6	2.51	0.46
26:14:1499:C:H2'	26:14:1500:G:C8	2.51	0.46
26:14:1789:A:H2'	26:14:1790:C:O4'	2.16	0.46
26:14:2130:U:H2'	26:14:2158:A:H61	1.81	0.46
26:14:2355:C:H5"	26:14:2356:C:OP2	2.16	0.46
26:14:2601:C:H2'	26:14:2603:G:C8	2.51	0.46
26:14:2893:G:O2'	26:14:2894:G:OP2	2.29	0.46
28:79:190:ARG:HB3	28:79:194:ARG:HH12	1.80	0.46
33:59:6:ARG:HH21	33:59:54:ARG:HH12	1.62	0.46
44:75:62:THR:HG22	44:75:75:ILE:HG12	1.98	0.46
46:95:7:THR:HG23	46:95:22:VAL:HG21	1.98	0.46
49:C5:67:LEU:HD12	49:C5:67:LEU:HA	1.66	0.46
1:13:443:C:H42	1:13:491:G:H1	1.62	0.46
1:13:1128:C:O2'	1:13:1130:A:N7	2.42	0.46
5:4E:6:PHE:CD1	5:4E:36:ASP:HB3	2.51	0.46
6:5E:86:ARG:O	6:5E:87:ARG:HG2	2.16	0.46
7:6E:13:GLN:O	7:6E:24:THR:HG21	2.16	0.46
8:7E:86:ILE:HG12	8:7E:135:CYS:HA	1.98	0.46
20:BI:30:LYS:HA	20:BI:33:ILE:HG12	1.98	0.46
26:1H:357:A:H2'	26:1H:358:U:C6	2.48	0.46
26:1H:533:G:H5'	45:C8:24:TYR:CE1	2.51	0.46
26:1H:644:A:C2	26:1H:646:A:C4	3.04	0.46
26:1H:822:U:P	63:1H:4009:HOH:O	2.74	0.46
26:1H:1080:A:H2	37:48:126:MET:HG3	1.81	0.46
26:1H:1515:C:H2'	26:1H:1516:U:H6	1.81	0.46
27:16:104:A:OP1	50:H8:72:ARG:NH2	2.39	0.46
30:21:50:GLY:HA2	30:21:77:ILE:HA	1.97	0.46
33:51:130:ARG:HE	33:51:130:ARG:HB3	1.45	0.46
36:38:50:ARG:HH22	36:38:96:PHE:HE1	1.64	0.46
38:58:10:GLU:H	38:58:10:GLU:CD	2.24	0.46
54:L8:10:LYS:NZ	63:L8:102:HOH:O	2.49	0.46
1:1G:300:A:H1'	1:1G:565:U:O2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:756:C:H2'	1:1G:757:U:O4'	2.16	0.46
1:1G:823:G:N3	8:72:1:MET:HE1	2.31	0.46
1:1G:975:A:C4'	1:1G:976:G:H5"	2.38	0.46
1:1G:1059:C:O2	10:1A:53:PRO:HG3	2.15	0.46
1:1G:1178:G:O2'	1:1G:1180:A:N7	2.37	0.46
1:1G:1240:U:OP2	7:62:116:ALA:N	2.40	0.46
1:1G:1258:G:H2'	1:1G:1259:C:H6	1.80	0.46
1:1G:1357:A:N7	1:1G:1358:U:C5	2.84	0.46
2:12:18:GLY:H	2:12:42:ILE:HG22	1.81	0.46
2:12:120:ALA:O	2:12:124:SER:HB2	2.16	0.46
3:22:84:ILE:O	3:22:88:ARG:NH2	2.49	0.46
4:32:98:GLU:OE2	4:32:103:ASN:ND2	2.46	0.46
6:52:45:LEU:HD23	6:52:57:GLN:HB3	1.98	0.46
13:4A:33:ALA:HB1	13:4A:56:LEU:HD21	1.98	0.46
16:7A:21:VAL:HG11	16:7A:59:TRP:CD1	2.51	0.46
22:1L:75:C:H2'	22:1L:76:C:H5'	1.98	0.46
26:14:528:A:O2'	26:14:529:A:H5'	2.16	0.46
26:14:780:G:N2	26:14:783:A:N6	2.58	0.46
26:14:1386:C:C2	26:14:1387:C:C5	3.04	0.46
26:14:1973:G:H2'	26:14:1974:C:C6	2.51	0.46
26:14:2309:A:C6	26:14:2310:A:C6	3.04	0.46
26:14:2320:A:N6	26:14:2333:A:H2'	2.31	0.46
26:14:2400:G:H3'	26:14:2401:U:H6	1.81	0.46
26:14:2403:C:N3	26:14:2415:G:C2	2.84	0.46
32:49:96:ARG:C	32:49:98:ARG:H	2.23	0.46
33:59:86:GLU:HB2	33:59:87:LEU:H	1.64	0.46
33:59:149:ARG:HG3	33:59:162:ILE:O	2.16	0.46
42:55:85:PRO:O	42:55:88:ARG:HB2	2.16	0.46
56:J5:33:CYS:SG	56:J5:40:LYS:HB3	2.56	0.46
1:13:272:C:H2'	1:13:273:A:H8	1.80	0.46
1:13:509:A:C8	1:13:509:A:H3'	2.51	0.46
1:13:967:C:H5"	63:13:2036:HOH:O	2.16	0.46
1:13:1137:C:O2	1:13:1138:G:N2	2.49	0.46
9:8E:5:TYR:CE1	9:8E:16:ARG:HG2	2.47	0.46
10:1I:30:SER:O	10:1I:81:THR:HG23	2.16	0.46
20:BI:32:ALA:O	20:BI:36:LEU:HB2	2.15	0.46
26:1H:757:U:H2'	26:1H:758:C:O4'	2.16	0.46
26:1H:1038:C:H2'	26:1H:1039:G:O4'	2.16	0.46
26:1H:1050:A:H2'	26:1H:1051:G:O4'	2.15	0.46
26:1H:1439:A:C2	26:1H:1553:A:C4	3.04	0.46
26:1H:1818:U:OP2	29:11:157:ARG:NH2	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1970:A:H4'	63:1H:4402:HOH:O	2.14	0.46
26:1H:2053:G:OP1	30:21:144:ARG:HD3	2.16	0.46
26:1H:2148:G:H2'	26:1H:2149:G:H8	1.81	0.46
26:1H:2189:U:H2'	26:1H:2190:G:C8	2.51	0.46
26:1H:2377:A:H2'	26:1H:2378:A:C8	2.51	0.46
27:16:15:A:H1'	27:16:109:G:C4	2.51	0.46
29:11:26:LYS:HD2	29:11:29:PRO:CG	2.39	0.46
32:41:77:ILE:HD12	32:41:77:ILE:HA	1.72	0.46
32:41:101:ILE:HG12	32:41:105:LYS:HE2	1.98	0.46
33:51:20:ALA:HB1	33:51:21:PRO:HD2	1.97	0.46
36:38:4:LYS:HD3	36:38:4:LYS:N	2.30	0.46
36:38:60:ARG:HA	36:38:60:ARG:HE	1.79	0.46
37:48:112:MET:HA	37:48:112:MET:HE3	1.97	0.46
40:78:121:LYS:HE2	40:78:121:LYS:HB3	1.77	0.46
47:E8:92:ARG:NH1	47:E8:94:ASP:OD1	2.49	0.46
52:J8:17:SER:HA	63:J8:107:HOH:O	2.16	0.46
56:N8:31:VAL:HB	56:N8:42:PRO:HG3	1.98	0.46
1:1G:64:G:H4'	1:1G:65:U:O5'	2.16	0.46
1:1G:187:C:H2'	1:1G:188:U:O4'	2.16	0.46
1:1G:353:A:H5'	1:1G:353:A:C8	2.44	0.46
1:1G:753:A:OP1	15:6A:69:TYR:OH	2.29	0.46
6:52:97:PHE:HB2	18:9A:32:ARG:HE	1.81	0.46
8:72:21:LYS:HG2	8:72:23:SER:O	2.16	0.46
9:82:46:ALA:HA	9:82:78:LYS:HB2	1.98	0.46
9:82:50:LEU:HB3	9:82:56:LEU:HA	1.97	0.46
12:3A:59:ARG:CZ	12:3A:59:ARG:HB2	2.46	0.46
15:6A:69:TYR:CE1	15:6A:73:GLU:HG3	2.50	0.46
17:8A:88:TYR:CZ	17:8A:92:ARG:HD2	2.50	0.46
26:14:404:C:P	63:14:3920:HOH:O	2.74	0.46
26:14:587:C:OP2	40:35:21:ARG:NH2	2.49	0.46
26:14:1021:A:H8	26:14:1021:A:H3'	1.81	0.46
26:14:1028:A:N6	26:14:1125:G:H2'	2.30	0.46
26:14:1048:A:H5'	26:14:1049:C:OP2	2.16	0.46
26:14:1266:G:O4'	47:A5:15:ARG:NH2	2.48	0.46
26:14:1774:C:P	63:14:3774:HOH:O	2.71	0.46
26:14:1796:U:H2'	26:14:1797:C:H6	1.81	0.46
26:14:2105:C:H2'	26:14:2106:G:O4'	2.15	0.46
26:14:2335:A:C8	26:14:2337:G:C5	3.04	0.46
26:14:2504:U:P	63:14:3901:HOH:O	2.74	0.46
26:14:2645:G:C3'	26:14:2646:C:H5'	2.45	0.46
26:14:2851:A:H2'	26:14:2852:G:H8	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:79:194:ARG:HA	28:79:197:GLU:HG3	1.98	0.46
30:29:100:GLU:O	30:29:172:VAL:HG23	2.16	0.46
38:15:90:MET:HE2	38:15:90:MET:HA	1.98	0.46
59:M5:29:LYS:HG2	59:M5:29:LYS:O	2.16	0.46
1:13:157:G:H2'	1:13:158:G:H8	1.81	0.45
1:13:1135:U:H2'	1:13:1137:C:C4	2.51	0.45
1:13:1318:A:H2'	1:13:1319:A:H5"	1.97	0.45
2:1E:19:HIS:HB3	2:1E:20:GLU:HG2	1.97	0.45
3:2E:73:PRO:HG3	3:2E:105:GLU:HA	1.97	0.45
4:3E:57:ARG:HG3	4:3E:202:LEU:HD22	1.99	0.45
11:2I:82:VAL:HG21	11:2I:98:LEU:HD12	1.98	0.45
14:5I:29:ARG:NH1	14:5I:31:ARG:HB2	2.31	0.45
15:6I:71:GLN:O	15:6I:71:GLN:HG2	2.16	0.45
22:1K:4:U:H2'	22:1K:5:C:C6	2.50	0.45
26:1H:102:G:OP1	53:K8:7:ARG:NH2	2.49	0.45
26:1H:176:G:C2'	26:1H:177:G:H5'	2.46	0.45
26:1H:444:C:H2'	26:1H:445:C:H6	1.81	0.45
26:1H:638:G:C5	26:1H:651:G:C2	3.04	0.45
26:1H:821:A:H5"	26:1H:822:U:C6	2.50	0.45
26:1H:1441:G:H2'	26:1H:1442:G:H8	1.81	0.45
26:1H:1567:A:H5'	29:11:58:HIS:ND1	2.31	0.45
26:1H:1633:G:O6	63:1H:3954:HOH:O	2.19	0.45
26:1H:1637:A:H4'	26:1H:2711:A:O2'	2.16	0.45
26:1H:2199:A:H3'	26:1H:2205:C:C6	2.51	0.45
26:1H:2210:G:H5'	26:1H:2211:G:N7	2.32	0.45
26:1H:2308:G:H2'	26:1H:2308:G:N3	2.31	0.45
26:1H:2477:C:H2'	26:1H:2529:G:O6	2.17	0.45
26:1H:2516:G:C6	26:1H:2517:C:N4	2.84	0.45
29:11:137:PRO:O	29:11:140:THR:OG1	2.33	0.45
36:38:36:GLU:CB	36:38:104:ILE:HB	2.46	0.45
34:28:16:THR:HB	34:28:20:LEU:HB2	1.97	0.45
39:68:68:GLU:OE2	39:68:78:ARG:NH1	2.47	0.45
1:1G:115:G:C2	1:1G:289:G:N7	2.84	0.45
1:1G:1535:C:N4	25:4L:9:G:H1	2.14	0.45
2:12:170:GLU:HA	2:12:172:ILE:HD12	1.99	0.45
4:32:162:LEU:HA	4:32:165:MET:HB3	1.98	0.45
4:32:173:TRP:CD1	4:32:174:LEU:HG	2.51	0.45
23:2L:1:C:H4'	41:45:87:LYS:HZ3	1.81	0.45
23:2L:46:G:H5"	23:2L:47:7MG:OP1	2.15	0.45
26:14:2:G:N2	26:14:2900:A:H2	2.14	0.45
26:14:984:A:H5"	26:14:985:C:H5	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1098:A:H3'	26:14:1099:G:C5'	2.46	0.45
26:14:1510:A:H2'	26:14:1511:A:C8	2.51	0.45
26:14:2588:G:OP1	63:14:3894:HOH:O	2.20	0.45
26:14:2684:U:O4	63:14:3728:HOH:O	2.20	0.45
26:14:2749:A:C6	26:14:2750:A:N6	2.85	0.45
48:B5:57:LEU:HD21	48:B5:78:LYS:HB3	1.97	0.45
59:M5:49:VAL:O	59:M5:50:LEU:HG	2.16	0.45
1:13:57:G:C5	1:13:58:C:C4	3.04	0.45
1:13:1177:G:C6	1:13:1181:G:N7	2.85	0.45
1:13:1191:A:H2'	1:13:1192:C:C6	2.51	0.45
5:4E:69:VAL:O	5:4E:71:LEU:HD23	2.16	0.45
11:2I:18:ARG:HG3	11:2I:33:THR:OG1	2.15	0.45
12:3I:85:ILE:HA	12:3I:85:ILE:HD13	1.55	0.45
13:4I:108:ARG:N	13:4I:108:ARG:HD2	2.31	0.45
17:8I:90:ILE:O	17:8I:93:GLN:HB3	2.17	0.45
26:1H:988:A:H8	26:1H:988:A:O5'	1.98	0.45
26:1H:1203:G:H3'	26:1H:1204:A:H5"	1.98	0.45
26:1H:1478:G:H1'	26:1H:1557:C:O2'	2.16	0.45
26:1H:2224:G:H4'	26:1H:2226:C:C2	2.51	0.45
26:1H:2392:A:C8	40:78:61:ARG:HD3	2.51	0.45
29:11:35:LYS:HB3	29:11:35:LYS:HZ2	1.82	0.45
32:41:91:ARG:HD2	32:41:91:ARG:C	2.42	0.45
32:41:96:ARG:N	32:41:99:MET:HE2	2.31	0.45
33:51:118:PRO:HD2	33:51:121:ILE:HG21	1.98	0.45
36:38:131:MET:H	36:38:131:MET:HG3	1.45	0.45
40:78:13:ASN:OD1	40:78:15:ARG:HG3	2.15	0.45
43:A8:15:ARG:NE	43:A8:88:ASP:OD2	2.48	0.45
43:A8:56:LEU:O	43:A8:58:LEU:HD13	2.16	0.45
45:C8:52:ARG:HA	45:C8:55:ARG:HG3	1.97	0.45
47:E8:23:LEU:HD22	56:N8:25:LEU:HD13	1.98	0.45
47:E8:64:MET:O	47:E8:65:LEU:HB2	2.16	0.45
49:G8:68:HIS:HB3	49:G8:71:LYS:HG2	1.98	0.45
1:1G:216:G:O2'	1:1G:217:C:O4'	2.33	0.45
1:1G:340:U:H2'	1:1G:341:C:C6	2.50	0.45
1:1G:518:C:H4'	1:1G:519:C:H5"	1.98	0.45
1:1G:678:U:H2'	1:1G:679:C:C6	2.51	0.45
1:1G:788:U:H2'	1:1G:789:U:O4'	2.16	0.45
1:1G:1323:G:H2'	1:1G:1324:A:H8	1.82	0.45
1:1G:1498:U:O2'	1:1G:1499:A:OP2	2.32	0.45
3:22:191:THR:OG1	3:22:192:THR:N	2.48	0.45
7:62:60:LYS:HD2	7:62:60:LYS:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:7A:47:ASP:HB2	16:7A:50:LYS:NZ	2.31	0.45
17:8A:15:MET:HB2	17:8A:15:MET:HE3	1.73	0.45
26:14:951:C:O2'	26:14:952:G:H5'	2.17	0.45
26:14:1001:A:H2'	26:14:1002:G:O4'	2.16	0.45
26:14:1812:A:H2'	26:14:1813:G:C8	2.51	0.45
26:14:2238:G:N7	63:14:4036:HOH:O	2.35	0.45
26:14:2718:G:C6	26:14:2719:G:C5	3.04	0.45
27:1J:52:A:O2'	27:1J:53:A:N7	2.44	0.45
29:19:66:ASP:HB3	29:19:105:ILE:HD12	1.98	0.45
33:59:60:ARG:O	33:59:63:SER:OG	2.33	0.45
33:59:121:ILE:HD11	33:59:140:LYS:HE3	1.97	0.45
43:65:62:LYS:HA	43:65:65:VAL:HB	1.98	0.45
45:85:65:ILE:HD11	45:85:96:ALA:CB	2.47	0.45
1:13:48:C:H6	1:13:365:U:O4	1.99	0.45
1:13:403:C:OP1	4:3E:137:SER:OG	2.28	0.45
1:13:652:U:H1'	1:13:653:A:C2	2.50	0.45
1:13:724:G:O2'	1:13:725:G:H5'	2.17	0.45
1:13:942:G:C2	1:13:1342:C:C2	3.05	0.45
1:13:1059:C:O2'	10:1I:53:PRO:HD3	2.16	0.45
1:13:1225:A:N6	63:13:2054:HOH:O	2.49	0.45
1:13:1497:G:C2'	1:13:1498:U:H5'	2.46	0.45
2:1E:11:LEU:C	2:1E:14:GLY:H	2.24	0.45
2:1E:141:GLU:O	2:1E:145:LEU:HG	2.17	0.45
4:3E:99:SER:O	4:3E:140:VAL:HG22	2.17	0.45
15:6I:82:ILE:HG23	15:6I:87:ILE:HB	1.98	0.45
20:BI:34:LYS:HB2	20:BI:34:LYS:HE3	1.56	0.45
24:3K:16:C:H1'	24:3K:62:C:H5'	1.97	0.45
26:1H:459:U:H5"	58:P8:40:TRP:CD2	2.51	0.45
26:1H:652:C:N4	26:1H:653:A:N6	2.65	0.45
26:1H:847:U:P	63:1H:3739:HOH:O	2.69	0.45
26:1H:2492:U:H2'	26:1H:2493:U:H6	1.81	0.45
26:1H:2723:C:H5"	42:98:1:MET:HE2	1.97	0.45
29:11:9:TYR:CZ	29:11:13:ARG:HG2	2.51	0.45
32:41:98:ARG:O	32:41:101:ILE:HD13	2.15	0.45
35:61:7:GLU:HA	35:61:15:VAL:HG22	1.99	0.45
37:48:71:THR:OG1	37:48:110:GLN:O	2.29	0.45
38:58:22:THR:OG1	38:58:23:LEU:N	2.49	0.45
38:58:65:LYS:HB2	38:58:65:LYS:HE3	1.68	0.45
42:98:94:TYR:O	42:98:117:VAL:HG12	2.17	0.45
45:C8:50:ARG:HH12	46:D8:72:VAL:HG23	1.80	0.45
58:P8:12:ARG:HH21	58:P8:44:PRO:HB3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:25:C:H2'	1:1G:26:A:C8	2.51	0.45
1:1G:428:G:O4'	1:1G:430:A:C8	2.70	0.45
1:1G:967:C:H2'	1:1G:968:A:N7	2.30	0.45
1:1G:1402:C:H2'	1:1G:1403:C:O4'	2.16	0.45
1:1G:1424:C:H2'	1:1G:1425:U:O4'	2.16	0.45
2:12:44:LEU:H	2:12:44:LEU:HG	1.50	0.45
4:32:153:ARG:HD3	4:32:181:MET:SD	2.56	0.45
7:62:18:TYR:HE1	7:62:44:TYR:HE1	1.63	0.45
9:82:77:ILE:O	9:82:81:ILE:HG12	2.16	0.45
26:14:8:A:H2	26:14:2896:C:H42	1.65	0.45
26:14:117:G:C6	26:14:119:A:C6	3.05	0.45
26:14:273(F):C:H3'	26:14:274:G:C5'	2.45	0.45
26:14:832:G:N2	40:35:53:GLY:HA3	2.31	0.45
26:14:1188:U:H4'	46:95:79:VAL:HG22	1.99	0.45
26:14:1939:U:OP1	26:14:2604:U:O2'	2.31	0.45
30:29:31:CYS:HB2	30:29:49:LEU:HD23	1.97	0.45
31:39:53:THR:O	31:39:56:GLU:N	2.49	0.45
33:59:107:VAL:O	33:59:152:ARG:NH2	2.49	0.45
35:69:27:ARG:HD3	52:F5:71:TYR:CE2	2.52	0.45
38:15:7:LYS:O	38:15:9:VAL:HG22	2.16	0.45
40:35:65:ARG:HB3	63:35:305:HOH:O	2.16	0.45
41:45:21:THR:HG21	41:45:101:ARG:CD	2.47	0.45
53:G5:32:LEU:O	53:G5:36:ARG:N	2.49	0.45
58:L5:12:ARG:NH2	58:L5:44:PRO:HB3	2.31	0.45
1:13:21:G:H2'	1:13:22:G:C8	2.51	0.45
1:13:545:C:O2'	1:13:549:C:OP1	2.33	0.45
1:13:803:G:H2'	1:13:804:U:O4'	2.17	0.45
1:13:953:G:H5'	1:13:965:A:H61	1.82	0.45
1:13:1503:A:N3	63:13:2052:HOH:O	2.49	0.45
2:1E:55:PHE:HD1	2:1E:58:ILE:HD12	1.81	0.45
2:1E:86:GLU:C	2:1E:89:GLY:H	2.23	0.45
4:3E:50:ARG:CZ	4:3E:50:ARG:HB2	2.44	0.45
4:3E:98:GLU:HG2	4:3E:189:PRO:HG2	1.98	0.45
5:4E:80:ILE:HG12	5:4E:81:GLU:N	2.31	0.45
8:7E:95:VAL:CG1	8:7E:99:GLU:HB2	2.47	0.45
14:5I:8:GLU:HA	14:5I:11:LYS:HD2	1.98	0.45
14:5I:19:ARG:O	14:5I:20:ALA:C	2.58	0.45
15:6I:62:GLN:HG3	15:6I:65:ARG:NH2	2.32	0.45
22:1K:46:G:H5"	22:1K:47:7MG:OP2	2.16	0.45
23:2K:8:4SU:O5'	23:2K:8:4SU:H6	2.17	0.45
26:1H:74:A:C5'	26:1H:74:A:H8	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:658:C:H2'	26:1H:659:C:C6	2.52	0.45
26:1H:945:A:P	63:1H:3860:HOH:O	2.73	0.45
26:1H:1001:A:H2'	26:1H:1002:G:O4'	2.17	0.45
26:1H:1473:G:H8	26:1H:1473:G:O5'	1.98	0.45
26:1H:2098:U:C4	26:1H:2099:U:C5	3.03	0.45
26:1H:2280:G:C2'	26:1H:2281:C:H5'	2.47	0.45
30:21:143:ASN:HB2	30:21:147:PRO:HD2	1.99	0.45
32:41:167:GLU:O	32:41:170:ARG:HB3	2.16	0.45
33:51:122:THR:HB	33:51:134:SER:HB2	1.99	0.45
35:61:133:HIS:HB2	35:61:134:PRO:HD2	1.98	0.45
36:38:14:LYS:NZ	36:38:17:LEU:HD23	2.31	0.45
40:78:112:LEU:O	40:78:128:HIS:HB2	2.17	0.45
41:88:95:ALA:O	41:88:97:VAL:HG23	2.17	0.45
49:G8:52:SER:H	49:G8:56:PRO:HA	1.80	0.45
1:1G:222:U:C2	1:1G:223:U:C5	3.04	0.45
1:1G:578:C:OP1	63:1G:1845:HOH:O	2.21	0.45
1:1G:1207:G:H2'	1:1G:1208:C:C6	2.51	0.45
1:1G:1333:A:H2'	1:1G:1334:G:O4'	2.17	0.45
3:22:6:HIS:CE1	3:22:8:ILE:HB	2.52	0.45
6:52:33:TYR:OH	6:52:78:GLU:HG3	2.16	0.45
15:6A:39:LEU:CD1	15:6A:56:LEU:HB2	2.46	0.45
26:14:212:G:H2'	26:14:213:A:O4'	2.16	0.45
26:14:223:A:O2'	26:14:420:C:O2	2.30	0.45
26:14:340:A:C8	26:14:341:G:C8	3.05	0.45
26:14:629:G:H5"	26:14:650:C:O2'	2.16	0.45
26:14:659:C:H2'	26:14:660:G:H8	1.82	0.45
26:14:975:G:C5	26:14:976:C:C5	3.05	0.45
26:14:1520:U:H2'	26:14:1521:G:O4'	2.17	0.45
26:14:1966:A:H4'	26:14:1967:C:OP1	2.16	0.45
26:14:2462:U:H2'	26:14:2463:C:C6	2.51	0.45
31:39:47:GLY:O	31:39:94:PRO:HA	2.16	0.45
31:39:64:ILE:O	31:39:65:TRP:HD1	1.99	0.45
31:39:131:GLY:H	31:39:142:TRP:HD1	1.62	0.45
31:39:169:ASN:O	31:39:169:ASN:ND2	2.50	0.45
33:59:149:ARG:HE	33:59:154:PRO:CB	2.29	0.45
35:69:100:ALA:O	35:69:104:GLN:HB3	2.16	0.45
41:45:38:GLU:OE2	41:45:128:LYS:HD2	2.17	0.45
43:65:33:LYS:HB3	43:65:34:HIS:CD2	2.51	0.45
45:85:49:HIS:HA	45:85:52:ARG:CB	2.46	0.45
47:A5:29:LEU:O	47:A5:29:LEU:HG	2.16	0.45
53:G5:43:GLN:HG3	53:G5:46:GLN:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:224:C:H2'	1:13:225:C:H6	1.81	0.45
1:13:797:C:C2'	1:13:798:G:H5'	2.46	0.45
1:13:872:A:C5	1:13:874:G:C8	3.05	0.45
1:13:946:A:N7	63:13:2014:HOH:O	2.36	0.45
1:13:1037:C:H2'	1:13:1038:C:C6	2.51	0.45
1:13:1143:G:C2	1:13:1144:G:C4	3.05	0.45
2:1E:12:GLU:N	2:1E:12:GLU:OE1	2.49	0.45
10:1I:54:PHE:O	10:1I:55:LYS:HG3	2.17	0.45
10:1I:80:LYS:HE3	1:1G:1163:C:H5"	1.98	0.45
11:2I:18:ARG:HG3	11:2I:33:THR:HG1	1.81	0.45
11:2I:112:THR:O	11:2I:114:VAL:HG23	2.17	0.45
13:4I:4:ILE:O	13:4I:5:ALA:C	2.60	0.45
23:2K:53:G:C6	23:2K:54:G:C5	3.05	0.45
24:3K:35:A:C2	24:3K:36:C:C2	3.04	0.45
26:1H:356:G:H2'	26:1H:357:A:H8	1.81	0.45
26:1H:527:C:OP2	26:1H:2779:U:C5	2.69	0.45
26:1H:527:C:OP2	26:1H:2779:U:H5	1.99	0.45
26:1H:686:G:H8	58:P8:6:GLN:O	2.00	0.45
26:1H:860:U:H1'	26:1H:2268:A:H5'	1.99	0.45
26:1H:890:A:H2'	26:1H:892:G:O4'	2.17	0.45
26:1H:1061:U:H4'	26:1H:1070:A:C1'	2.29	0.45
26:1H:1268:A:H2'	26:1H:1269:A:O4'	2.17	0.45
26:1H:1454:U:H5'	42:98:63:ARG:CZ	2.47	0.45
26:1H:2849:U:OP2	44:B8:95:ARG:NH1	2.50	0.45
29:11:34:VAL:C	29:11:35:LYS:HZ2	2.24	0.45
32:41:28:VAL:O	32:41:31:VAL:HG13	2.17	0.45
33:51:4:ILE:HG12	33:51:6:ARG:CD	2.46	0.45
36:38:16:ASN:HA	36:38:19:ARG:HB3	1.97	0.45
36:38:63:LEU:HD23	36:38:63:LEU:HA	1.86	0.45
37:48:123:ALA:HA	37:48:126:MET:HE2	1.98	0.45
39:68:77:ILE:HG12	39:68:78:ARG:N	2.31	0.45
40:78:37:GLY:O	40:78:40:SER:N	2.50	0.45
42:98:101:ALA:HA	56:N8:44:THR:HG21	1.98	0.45
48:F8:39:ILE:O	48:F8:43:VAL:HG23	2.15	0.45
1:1G:567:G:H1'	63:1G:1893:HOH:O	2.17	0.45
1:1G:1103:C:C4	1:1G:1104:G:N7	2.84	0.45
1:1G:1157:A:H2	1:1G:1180:A:C6	2.34	0.45
3:22:18:TRP:NE1	14:5A:55:GLY:N	2.64	0.45
3:22:29:TYR:OH	14:5A:54:PRO:HD2	2.16	0.45
7:62:16:LEU:CD2	9:82:42:ARG:HA	2.47	0.45
10:1A:56:HIS:O	10:1A:58:ASP:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4A:65:LYS:HG3	13:4A:69:GLU:CD	2.42	0.45
16:7A:43:LYS:HG2	16:7A:48:TRP:CD2	2.52	0.45
17:8A:81:ARG:HD3	17:8A:84:LEU:HD23	1.97	0.45
23:2L:32:G:C5	23:2L:33:OMC:C5	3.05	0.45
23:2L:41:C:C2	23:2L:42:C:C5	3.04	0.45
26:14:529:A:H4'	26:14:530:G:H5'	1.98	0.45
26:14:975:G:H1'	26:14:990:A:C2	2.52	0.45
26:14:1105:U:H2'	26:14:1106:G:H8	1.81	0.45
26:14:1485:G:H1	26:14:1504:C:N4	2.14	0.45
26:14:1759:A:H4'	26:14:2715:C:O4'	2.17	0.45
26:14:1771:C:HO2'	26:14:1786:A:H8	1.55	0.45
26:14:2113:U:H3'	26:14:2114:A:C4'	2.37	0.45
26:14:2129:C:H5'	26:14:2130:U:OP2	2.17	0.45
26:14:2231:C:OP1	52:F5:42:GLN:HA	2.16	0.45
26:14:2314:C:H5'	32:49:38:VAL:HG11	1.98	0.45
26:14:2507:C:H5"	26:14:2573:C:N4	2.31	0.45
29:19:39:LYS:O	29:19:40:THR:HG23	2.16	0.45
31:39:25:PRO:HB2	31:39:27:GLU:N	2.30	0.45
39:25:106:LEU:HD22	39:25:111:PHE:HB2	1.98	0.45
45:85:52:ARG:NH1	45:85:55:ARG:HD2	2.32	0.45
46:95:52:VAL:HG12	46:95:55:ALA:HB3	1.97	0.45
49:C5:98:VAL:HA	49:C5:104:GLY:HA2	1.98	0.45
52:F5:53:VAL:HG22	52:F5:54:ALA:H	1.81	0.45
1:13:401:C:O2'	1:13:621:A:N3	2.47	0.45
1:13:827:U:C5	1:13:870:U:C5	3.04	0.45
1:13:1087:G:H2'	1:13:1088:G:H8	1.82	0.45
1:13:1443:G:H22	44:B8:119:LYS:HG3	1.81	0.45
2:1E:165:VAL:O	2:1E:187:LEU:HD12	2.16	0.45
7:6E:38:LEU:O	7:6E:42:ILE:HG13	2.17	0.45
8:7E:64:LYS:HB3	8:7E:79:VAL:HG21	1.99	0.45
11:2I:82:VAL:CG1	11:2I:108:ILE:HG13	2.46	0.45
12:3I:114:LYS:HB3	12:3I:114:LYS:HE2	1.87	0.45
14:5I:6:LEU:HD12	14:5I:23:ARG:HH22	1.82	0.45
16:7I:4:ILE:HA	16:7I:20:VAL:O	2.17	0.45
18:9I:52:PRO:O	18:9I:56:THR:HG23	2.16	0.45
26:1H:207:A:H2'	26:1H:208:C:O4'	2.17	0.45
26:1H:247:G:O2'	26:1H:250:G:N7	2.44	0.45
26:1H:639:U:H2'	26:1H:640:C:C6	2.51	0.45
26:1H:654(T):A:H2'	26:1H:654(U):A:O4'	2.17	0.45
26:1H:1047:G:H2'	26:1H:1110:G:H1	1.78	0.45
26:1H:1204:A:H61	26:1H:1240:U:H2'	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1678:G:H8	26:1H:1678:G:O5'	1.99	0.45
26:1H:2210:G:H3'	26:1H:2211:G:C4	2.52	0.45
26:1H:2786:U:O2'	30:21:62:PRO:HA	2.17	0.45
27:16:15:A:H1'	27:16:109:G:N9	2.32	0.45
30:21:2:LYS:HA	30:21:84:PHE:CD1	2.51	0.45
31:31:39:TRP:HB2	31:31:101:LEU:HD12	1.99	0.45
31:31:181:LEU:HA	31:31:181:LEU:HD23	1.79	0.45
33:51:12:PRO:HG2	33:51:13:LYS:HG2	1.97	0.45
33:51:125:VAL:HG13	33:51:131:VAL:HB	1.97	0.45
37:48:83:GLY:H	37:48:99:ILE:HG21	1.79	0.45
47:E8:12:ILE:HG12	47:E8:13:SER:H	1.82	0.45
1:1G:128:G:H5'	17:8A:2:PRO:HA	1.99	0.45
1:1G:750:G:H21	15:6A:23:GLY:C	2.23	0.45
1:1G:940:C:H2'	1:1G:941:G:C8	2.52	0.45
1:1G:980:C:H3'	1:1G:981:U:H6	1.82	0.45
1:1G:1134:G:C2	1:1G:1135:U:H1'	2.52	0.45
1:1G:1274:G:H2'	1:1G:1275:A:C8	2.51	0.45
1:1G:1453:G:H21	1:1G:1453:G:P	2.39	0.45
2:12:73:THR:HG21	2:12:97:TRP:N	2.32	0.45
3:22:175:LEU:HD21	3:22:201:TYR:CE2	2.52	0.45
4:32:49:ARG:O	4:32:50:ARG:C	2.60	0.45
9:82:26:VAL:HG13	9:82:61:ALA:O	2.17	0.45
9:82:112:LYS:HG2	9:82:119:ALA:HB2	1.97	0.45
13:4A:15:VAL:O	13:4A:19:LEU:HG	2.17	0.45
20:BA:11:SER:HA	20:BA:13:LEU:CD2	2.46	0.45
21:1B:12:LYS:HB3	21:1B:17:THR:O	2.17	0.45
26:14:783:A:OP2	63:19:302:HOH:O	2.21	0.45
26:14:832:G:H5'	40:35:45:LEU:CD1	2.45	0.45
26:14:929:G:H8	26:14:929:G:O5'	2.00	0.45
26:14:1028:A:H2'	26:14:1029:A:C8	2.52	0.45
26:14:1814:G:H5"	29:19:54:ARG:HH12	1.82	0.45
26:14:2050:C:H1'	30:29:156:MET:HE2	1.98	0.45
26:14:2418:A:H2'	26:14:2419:U:O4'	2.17	0.45
27:1J:75:G:H2'	27:1J:76:G:O4'	2.17	0.45
29:19:44:ASN:OD1	29:19:46:GLN:HG3	2.16	0.45
31:39:25:PRO:HA	31:39:27:GLU:HB2	1.98	0.45
31:39:68:LYS:HD3	31:39:68:LYS:HA	1.65	0.45
33:59:10:PRO:HD2	33:59:50:VAL:H	1.81	0.45
33:59:124:GLU:OE1	33:59:124:GLU:N	2.49	0.45
39:25:107:ARG:HB3	39:25:107:ARG:HH11	1.82	0.45
43:65:16:ASN:ND2	43:65:16:ASN:N	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:85:60:LEU:HA	45:85:63:VAL:HG12	1.99	0.45
46:95:19:LYS:HA	46:95:94:LEU:O	2.17	0.45
50:D5:112:ARG:O	50:D5:113:ALA:HB3	2.17	0.45
1:13:455:C:N4	1:13:477:G:H22	2.15	0.45
1:13:468:A:O2'	16:7I:82:GLN:HG2	2.17	0.45
1:13:587:G:N2	1:13:755:G:C5	2.85	0.45
1:13:590:C:N4	1:13:649:G:H1	2.13	0.45
2:1E:11:LEU:HD23	2:1E:213:LEU:HG	1.98	0.45
2:1E:69:LEU:HB3	2:1E:162:ILE:HG23	1.97	0.45
3:2E:16:ARG:HD2	3:2E:16:ARG:HA	1.69	0.45
3:2E:125:GLU:HG2	3:2E:190:ARG:O	2.17	0.45
7:6E:50:ILE:O	7:6E:54:THR:HG23	2.16	0.45
10:1I:95:GLU:HG3	10:1I:96:ILE:N	2.31	0.45
18:9I:73:ALA:HB1	18:9I:79:LEU:HG	1.97	0.45
19:AI:41:VAL:HB	19:AI:42:PRO:O	2.17	0.45
19:AI:43:GLU:H	19:AI:43:GLU:CD	2.24	0.45
26:1H:443:A:N7	31:31:45:ARG:HG2	2.32	0.45
26:1H:900:A:H3'	26:1H:901:A:H8	1.80	0.45
26:1H:1047:G:N2	26:1H:1110:G:H2'	2.32	0.45
26:1H:1344:G:H4'	26:1H:1384:A:C5	2.52	0.45
26:1H:2287:A:H2	26:1H:2346:A:C2	2.35	0.45
26:1H:2591:C:OP2	29:11:238:GLY:O	2.34	0.45
26:1H:2795:G:H3'	26:1H:2797:U:H5"	1.97	0.45
37:48:136:VAL:O	37:48:137:GLU:C	2.59	0.45
34:28:16:THR:OG1	34:28:21:LYS:HE2	2.17	0.45
50:H8:51:ALA:CB	50:H8:57:ILE:HD11	2.47	0.45
52:J8:91:LYS:O	52:J8:92:LYS:C	2.60	0.45
57:O8:40:CYS:SG	57:O8:45:LYS:HD3	2.57	0.45
1:1G:108:G:H5'	1:1G:109:A:C5'	2.45	0.45
1:1G:750:G:N3	15:6A:23:GLY:HA3	2.32	0.45
1:1G:1084:G:C5	1:1G:1085:U:C4	3.04	0.45
1:1G:1533:C:O2'	1:1G:1534:A:OP1	2.30	0.45
14:5A:17:LYS:NZ	14:5A:18:VAL:HG13	2.32	0.45
22:1L:33:RSP:H5'	22:1L:33:RSP:C6	2.46	0.45
24:3L:74:A:H5"	24:3L:74:A:H8	1.82	0.45
26:14:84:A:N6	26:14:102:G:O2'	2.39	0.45
26:14:365:C:OP2	63:14:3895:HOH:O	2.21	0.45
26:14:452:G:OP2	63:14:3897:HOH:O	2.21	0.45
26:14:531:C:H4'	26:14:532:A:H5"	1.98	0.45
26:14:747:U:O2	26:14:2014:A:H1'	2.16	0.45
26:14:900:A:H2'	26:14:900:A:N3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1408:C:C2	26:14:1595:G:N2	2.85	0.45
26:14:1467:C:H42	26:14:1525:G:H1	1.63	0.45
26:14:1542:G:N7	26:14:1543:A:C5	2.85	0.45
26:14:2119:A:N6	26:14:2168:G:N2	2.65	0.45
28:79:42:GLU:H	28:79:42:GLU:HG3	1.54	0.45
29:19:48:ARG:O	29:19:50:THR:HG23	2.17	0.45
30:29:120:TRP:CG	30:29:155:LYS:HB3	2.51	0.45
35:69:58:LEU:O	35:69:62:LYS:N	2.49	0.45
40:35:146:VAL:HG22	40:35:147:LEU:HD23	1.97	0.45
44:75:6:LEU:O	44:75:10:VAL:HG23	2.16	0.45
47:A5:73:ALA:O	47:A5:106:ILE:HG12	2.16	0.45
51:E5:43:THR:HG23	51:E5:43:THR:O	2.16	0.45
1:13:1298:C:P	7:6E:114:ARG:HH22	2.39	0.45
1:13:1349:A:H2'	1:13:1350:A:C8	2.51	0.45
2:1E:79:ASP:N	2:1E:81:VAL:HG22	2.32	0.45
17:8I:100:LYS:HG2	17:8I:101:ARG:HE	1.81	0.45
26:1H:710:G:N7	63:1H:4104:HOH:O	2.36	0.45
26:1H:1006:C:H1'	38:58:106:MET:CE	2.47	0.45
26:1H:1013:C:O2'	26:1H:1014:U:H5'	2.17	0.45
26:1H:1259:G:H2'	26:1H:1260:G:C8	2.51	0.45
26:1H:2110:G:C6	26:1H:2120:G:C8	3.05	0.45
26:1H:2143:C:N4	26:1H:2144:U:O2	2.50	0.45
27:16:31:C:H2'	27:16:32:C:H6	1.82	0.45
29:11:3:VAL:HG13	29:11:17:THR:HG23	1.98	0.45
31:31:53:THR:O	31:31:55:GLY:N	2.49	0.45
31:31:134:GLY:CA	31:31:166:ALA:HB2	2.47	0.45
32:41:109:VAL:HG22	55:M8:33:VAL:HG21	1.99	0.45
37:48:78:ILE:CG1	37:48:131:ALA:HB2	2.47	0.45
48:F8:26:TYR:O	48:F8:81:VAL:HG13	2.17	0.45
50:H8:29:TYR:OH	50:H8:87:ASP:HB3	2.17	0.45
50:H8:154:ASP:OD1	50:H8:154:ASP:N	2.48	0.45
52:J8:7:ILE:HG12	52:J8:62:VAL:HG12	1.98	0.45
58:P8:18:PHE:CD1	58:P8:18:PHE:C	2.94	0.45
1:1G:186(C):G:C6	1:1G:191(E):G:N1	2.85	0.45
1:1G:232:G:H2'	1:1G:233:C:O4'	2.17	0.45
1:1G:692:U:OP2	11:2A:26:ASN:ND2	2.49	0.45
1:1G:1206:G:H4'	3:22:192:THR:O	2.16	0.45
4:32:110:PHE:HD1	4:32:110:PHE:H	1.65	0.45
5:42:30:ALA:O	5:42:45:PHE:HA	2.17	0.45
8:72:44:PHE:HA	8:72:79:VAL:CG1	2.47	0.45
12:3A:70:ILE:HG21	12:3A:75:HIS:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AA:11:VAL:HG22	19:AA:12:ASP:N	2.32	0.45
20:BA:85:MET:H	20:BA:85:MET:HG2	1.47	0.45
26:14:286:C:H2'	26:14:287:C:C6	2.52	0.45
26:14:854:G:H2'	26:14:855:G:C8	2.51	0.45
26:14:1204:A:N1	26:14:1241:A:C2	2.84	0.45
26:14:1268:A:H5'	63:14:4136:HOH:O	2.17	0.45
26:14:2317:C:H2'	26:14:2318:G:O4'	2.17	0.45
26:14:2494:G:C4	26:14:2495:G:C8	3.05	0.45
26:14:2516:G:C5	26:14:2517:C:C4	3.04	0.45
26:14:2823:A:OP1	30:29:113:PHE:HB2	2.16	0.45
27:1J:9:G:H5'	43:65:25:ARG:HH12	1.82	0.45
29:19:246:PRO:O	29:19:254:THR:HG22	2.17	0.45
30:29:32:PRO:HA	30:29:90:THR:HA	1.98	0.45
30:29:41:LYS:NZ	30:29:42:ASP:OD2	2.41	0.45
32:49:124:SER:HB2	32:49:131:TYR:CE1	2.52	0.45
32:49:145:THR:O	32:49:146:TYR:HB3	2.17	0.45
38:15:41:ASP:O	45:85:64:ARG:NH2	2.50	0.45
43:65:14:VAL:O	43:65:18:ILE:HG13	2.17	0.45
45:85:48:ALA:O	45:85:52:ARG:HB2	2.17	0.45
45:85:52:ARG:HH11	45:85:52:ARG:HG2	1.80	0.45
45:85:108:GLU:OE1	45:85:112:ARG:NH1	2.45	0.45
1:13:1002:G:C2	1:13:1003:G:H1'	2.51	0.45
1:13:1240:U:O2'	7:6E:38:LEU:HG	2.17	0.45
1:13:1313:U:OP1	19:AI:6:LYS:HB3	2.17	0.45
1:13:1315:U:H2'	1:13:1316:G:O4'	2.16	0.45
2:1E:98:LEU:HB2	2:1E:101:MET:HE3	1.99	0.45
5:4E:78:HIS:CE1	5:4E:142:LEU:HD23	2.52	0.45
8:7E:14:ARG:HG3	8:7E:83:ILE:HG23	1.99	0.45
9:8E:99:LEU:HD12	9:8E:101:PHE:HE2	1.81	0.45
23:2K:26:C:H2'	23:2K:27:G:O4'	2.17	0.45
26:1H:247:G:H4'	26:1H:386:G:C5	2.52	0.45
26:1H:581:C:OP1	45:C8:33:ARG:HG3	2.17	0.45
26:1H:602:G:N2	26:1H:655:A:C8	2.83	0.45
26:1H:782:A:C2	29:11:226:MET:HG2	2.52	0.45
26:1H:895:U:H4'	26:1H:896:A:OP1	2.16	0.45
26:1H:1036:G:H1	26:1H:1119:C:H42	1.64	0.45
26:1H:1070:A:N6	26:1H:1096:A:N1	2.65	0.45
26:1H:1107:G:H2'	26:1H:1108:U:C6	2.49	0.45
26:1H:1316:U:H2'	26:1H:1317:A:C8	2.52	0.45
26:1H:2516:G:O2'	26:1H:2517:C:H5'	2.16	0.45
26:1H:2881:C:H2'	26:1H:2882:A:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:16:15:A:OP1	27:16:15:A:C4'	2.64	0.45
31:31:155:LEU:HB2	31:31:189:THR:HG21	1.99	0.45
31:31:192:LEU:HD21	31:31:194:MET:HE2	1.98	0.45
32:41:107:LEU:HA	32:41:107:LEU:HD23	1.65	0.45
33:51:23:ARG:HD2	33:51:25:LYS:HZ1	1.81	0.45
33:51:94:TYR:CD1	33:51:107:VAL:HA	2.52	0.45
36:38:24:PHE:CE2	36:38:88:ALA:HB2	2.51	0.45
37:48:68:VAL:O	37:48:69:THR:OG1	2.33	0.45
37:48:108:ALA:HB3	37:48:111:LYS:HZ2	1.81	0.45
43:A8:62:LYS:HB2	43:A8:97:ARG:HD2	1.99	0.45
43:A8:106:ARG:NH2	43:A8:107:GLU:HB2	2.32	0.45
44:B8:111:ARG:HD3	44:B8:111:ARG:H	1.81	0.45
46:D8:85:LYS:HB2	46:D8:85:LYS:NZ	2.31	0.45
50:H8:92:SER:O	50:H8:130:PRO:HG2	2.17	0.45
57:O8:44:ARG:HH11	57:O8:44:ARG:H	1.65	0.45
1:1G:1275:A:C6	1:1G:1276:G:C6	3.05	0.45
1:1G:1329:A:O2'	13:4A:24:GLY:HA2	2.16	0.45
1:1G:1343:G:H2'	1:1G:1344:C:C6	2.52	0.45
7:62:70:LYS:HG2	7:62:96:GLN:OE1	2.17	0.45
8:72:68:ARG:HD3	8:72:69:ARG:H	1.81	0.45
8:72:123:GLU:O	8:72:127:LEU:HB2	2.17	0.45
12:3A:27:LEU:HD23	12:3A:33:ARG:CZ	2.47	0.45
13:4A:53:VAL:O	13:4A:57:ARG:N	2.28	0.45
13:4A:78:ILE:HG23	13:4A:92:HIS:ND1	2.32	0.45
20:BA:56:MET:SD	20:BA:85:MET:HE2	2.56	0.45
24:3L:15:G:O2'	24:3L:16:C:H5'	2.17	0.45
26:14:686:G:H1	58:L5:16:HIS:CD2	2.35	0.45
26:14:1021:A:H3'	26:14:1021:A:C8	2.52	0.45
26:14:1336:A:H2'	26:14:1337:G:C8	2.52	0.45
26:14:1431:U:H2'	26:14:1432:C:C6	2.51	0.45
26:14:1600:C:O2'	26:14:1601:G:H5'	2.17	0.45
26:14:1623:G:N7	63:14:4045:HOH:O	2.36	0.45
26:14:1691:C:O2'	26:14:1692:U:H5'	2.17	0.45
26:14:2118:U:O2'	26:14:2145:C:N3	2.50	0.45
26:14:2346:A:H5"	26:14:2383:G:C1'	2.47	0.45
26:14:2472:G:N1	26:14:2477:C:OP1	2.48	0.45
31:39:38:ARG:HB3	31:39:99:TYR:OH	2.16	0.45
31:39:141:ALA:O	31:39:144:LYS:HB2	2.17	0.45
33:59:4:ILE:HD11	33:59:7:LEU:HD23	1.99	0.45
39:25:2:ILE:HG13	39:25:8:LEU:HD11	1.98	0.45
43:65:30:ARG:HD2	43:65:97:ARG:HD3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D5:110:GLY:HA3	50:D5:145:GLU:HA	1.99	0.45
1:13:265:G:N2	1:13:267:C:H5'	2.32	0.45
1:13:458:C:H2'	1:13:464:G:O4'	2.16	0.45
1:13:497:U:O2	1:13:497:U:H2'	2.15	0.45
1:13:571:U:O2	1:13:918:A:H5'	2.17	0.45
1:13:589:C:H42	1:13:650:G:H1	1.64	0.45
1:13:1015:A:H2'	1:13:1016:A:H8	1.79	0.45
1:13:1171:G:O2'	1:13:1172:C:H5'	2.16	0.45
1:13:1203:C:H2'	1:13:1204:A:O4'	2.17	0.45
1:13:1414:U:H2'	1:13:1415:G:H8	1.82	0.45
3:2E:58:GLU:O	3:2E:59:ARG:HG3	2.16	0.45
8:7E:6:ILE:HD13	8:7E:85:ARG:HH22	1.82	0.45
8:7E:104:ARG:HB3	8:7E:107:LEU:HB3	1.99	0.45
10:1I:53:PRO:O	14:5I:41:ARG:NH2	2.49	0.45
12:3I:86:ARG:HB2	12:3I:101:VAL:HG23	1.98	0.45
14:5I:27:CYS:SG	14:5I:28:GLY:N	2.90	0.45
20:BI:55:ILE:HD13	20:BI:55:ILE:HA	1.77	0.45
22:1K:22:A:C5	22:1K:47:7MG:C6	3.05	0.45
26:1H:189:G:OP2	52:J8:14:VAL:HG11	2.17	0.45
26:1H:304:G:H2'	26:1H:305:U:H6	1.82	0.45
26:1H:462:C:C4	26:1H:463:G:N7	2.84	0.45
26:1H:579:G:H2'	26:1H:580:C:C6	2.52	0.45
26:1H:978:G:C2	26:1H:986:C:N3	2.85	0.45
26:1H:2183:C:O5'	26:1H:2183:C:H6	2.00	0.45
26:1H:2687:U:C4	26:1H:2688:U:C5	3.04	0.45
26:1H:2865:U:C4	26:1H:2866:U:C4	3.04	0.45
29:11:14:ARG:HG2	29:11:15:PHE:CD2	2.52	0.45
29:11:123:ALA:HB3	29:11:131:LEU:HG	1.98	0.45
30:21:29:GLY:N	30:21:51:PHE:HE1	2.15	0.45
34:18:1:MET:HB3	34:18:5:ILE:HG21	1.99	0.45
35:61:131:LYS:HB3	35:61:132:PRO:HA	1.99	0.45
37:48:9:LYS:HA	37:48:9:LYS:HD3	1.50	0.45
38:58:38:HIS:CE1	38:58:39:ARG:HG3	2.52	0.45
41:88:101:ARG:HG3	41:88:102:VAL:N	2.32	0.45
44:B8:64:ARG:HB2	44:B8:73:GLU:HG2	1.98	0.45
1:1G:6:G:C4	5:42:119:LEU:HD11	2.52	0.45
1:1G:8:A:N6	4:32:209:ARG:HB2	2.32	0.45
1:1G:1510:U:H2'	1:1G:1511:G:C8	2.52	0.45
2:12:32:ILE:HD13	2:12:40:HIS:HB3	1.99	0.45
4:32:30:LYS:HB3	4:32:35:ARG:HH11	1.81	0.45
5:42:71:LEU:HD21	5:42:115:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:62:16:LEU:HD22	9:82:42:ARG:HA	1.99	0.45
7:62:93:PRO:CB	7:62:94:ARG:HE	2.30	0.45
10:1A:6:ILE:CG2	10:1A:98:ILE:HG23	2.47	0.45
12:3A:60:LEU:HA	12:3A:60:LEU:HD13	1.60	0.45
24:3L:18:G:H5'	24:3L:59:A:H2	1.82	0.45
24:3L:22:A:C6	24:3L:49:C:N3	2.85	0.45
25:4L:21:A:N6	25:4L:22:A:C6	2.85	0.45
26:14:328:U:H4'	49:C5:68:HIS:CD2	2.52	0.45
26:14:589:C:O3'	31:39:95:ARG:NH1	2.50	0.45
26:14:702:G:C2	26:14:731:C:C2	3.05	0.45
26:14:712:G:H2'	26:14:713:G:O4'	2.17	0.45
26:14:732:C:N4	26:14:733:G:C6	2.85	0.45
26:14:1138:G:O2'	38:15:106:MET:HG3	2.17	0.45
26:14:1190:G:OP1	40:35:32:THR:HA	2.16	0.45
26:14:1728:G:C2	26:14:1730:U:OP2	2.69	0.45
26:14:1856:G:C2'	26:14:1857:G:H5'	2.47	0.45
26:14:2131:G:H21	26:14:2157:G:H1'	1.81	0.45
26:14:2686:G:C2	26:14:2724:C:O2	2.70	0.45
27:1J:31:C:N4	43:65:32:LEU:HD23	2.32	0.45
29:19:273:ARG:HG2	29:19:274:ARG:N	2.31	0.45
30:29:26:ILE:HG22	30:29:28:ALA:N	2.31	0.45
30:29:201:THR:O	30:29:202:LYS:HD3	2.17	0.45
40:35:46:LYS:HB3	40:35:46:LYS:HE3	1.71	0.45
50:D5:105:VAL:O	50:D5:108:PRO:HG3	2.17	0.45
1:13:428:G:C5	1:13:430:A:C6	3.05	0.44
1:13:542:G:O3'	4:3E:14:ARG:NH2	2.44	0.44
1:13:1023:G:H2'	1:13:1024:G:H4'	1.98	0.44
1:13:1128:C:H5"	1:13:1129:C:OP2	2.17	0.44
1:13:1248:A:N3	9:8E:70:LYS:HE2	2.31	0.44
1:13:1492:A:OP1	12:3I:47:LYS:N	2.45	0.44
2:1E:17:PHE:N	2:1E:17:PHE:CD1	2.85	0.44
2:1E:44:LEU:HD12	2:1E:44:LEU:H	1.82	0.44
3:2E:15:THR:HG23	3:2E:181:ASN:H	1.82	0.44
4:3E:93:PHE:HA	4:3E:96:LEU:HD22	1.98	0.44
6:5E:82:ARG:HB2	6:5E:85:VAL:HG23	2.00	0.44
12:3I:5:PRO:HG2	12:3I:10:LEU:HD11	1.99	0.44
26:1H:606:U:OP1	31:31:104:LYS:HD2	2.16	0.44
26:1H:1077:A:N1	26:1H:1088:A:N6	2.57	0.44
26:1H:1443:G:N2	26:1H:1549:C:C2	2.85	0.44
26:1H:2056:G:O6	56:N8:2:ALA:HB3	2.17	0.44
28:71:193:ILE:HG21	28:71:227:HIS:HE1	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:11:102:LYS:C	29:11:103:ARG:HG2	2.42	0.44
29:11:226:MET:HB3	29:11:230:ASP:HB2	1.99	0.44
30:21:11:MET:HG2	30:21:24:THR:HA	2.00	0.44
30:21:131:ALA:CB	30:21:135:HIS:HE1	2.31	0.44
31:31:197:ASP:O	31:31:198:ALA:HB3	2.17	0.44
36:38:125:LEU:HD11	34:28:20:LEU:HD21	1.99	0.44
37:48:123:ALA:HA	37:48:126:MET:CB	2.45	0.44
38:58:5:VAL:HA	38:58:6:PRO:HD3	1.83	0.44
48:F8:9:LEU:O	53:K8:36:ARG:HD2	2.18	0.44
55:M8:37:SER:OG	55:M8:42:PHE:HB3	2.17	0.44
1:1G:406:G:C4	1:1G:495:A:C6	3.05	0.44
1:1G:956:U:C2	1:1G:1225:A:H2	2.35	0.44
3:22:181:ASN:O	3:22:181:ASN:CG	2.60	0.44
4:32:112:VAL:HG12	4:32:116:GLN:CD	2.42	0.44
13:4A:79:LYS:O	13:4A:82:MET:HG2	2.16	0.44
22:1L:54:G:H4'	41:45:56:ARG:NH2	2.32	0.44
23:2L:44:A:H2'	23:2L:45:A:C8	2.52	0.44
23:2L:51:U:H2'	23:2L:52:C:C6	2.52	0.44
26:14:430:G:H5"	26:14:431:U:OP2	2.17	0.44
26:14:1015:G:C6	26:14:1148:A:C6	3.06	0.44
26:14:1582:C:O2'	26:14:1586:A:C8	2.69	0.44
26:14:1968:G:P	63:14:3725:HOH:O	2.67	0.44
26:14:2056:G:H2'	26:14:2056:G:N3	2.32	0.44
26:14:2744:G:N2	33:59:143:GLN:OE1	2.50	0.44
26:14:2748:A:H2'	26:14:2749:A:C8	2.51	0.44
30:29:63:LEU:C	30:29:65:GLY:N	2.74	0.44
31:39:9:ILE:O	31:39:128:ALA:HB2	2.16	0.44
31:39:25:PRO:C	31:39:27:GLU:HB2	2.43	0.44
31:39:30:PRO:O	31:39:32:LEU:N	2.50	0.44
35:69:110:ASP:N	35:69:130:TYR:HH	2.10	0.44
40:35:114:ILE:N	40:35:114:ILE:HD12	2.32	0.44
48:B5:63:LYS:HA	48:B5:72:LYS:HA	1.99	0.44
58:L5:47:ARG:NH1	58:L5:47:ARG:HB2	2.32	0.44
1:13:263:A:OP2	20:BI:79:ARG:NH1	2.50	0.44
1:13:297:G:H4'	1:13:557:G:H4'	2.00	0.44
1:13:411:A:O2'	1:13:413:G:H5'	2.17	0.44
1:13:1014:A:H2'	1:13:1015:A:C8	2.51	0.44
1:13:1043:C:H2'	1:13:1044:A:O4'	2.17	0.44
1:13:1178:G:OP2	9:8E:93:ARG:NH1	2.38	0.44
1:13:1304:G:C6	1:13:1305:G:N1	2.85	0.44
1:13:1363:A:H1'	1:13:1365:G:N7	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1424:C:H42	1:13:1476:G:H1	1.65	0.44
1:13:1455:G:H5'	20:BI:32:ALA:HB2	1.98	0.44
8:7E:29:SER:HB3	8:7E:32:LYS:HE3	2.00	0.44
18:9I:35:ARG:O	18:9I:37:VAL:HG23	2.17	0.44
18:9I:50:ILE:CD1	18:9I:70:ILE:HG21	2.48	0.44
19:AI:15:LEU:HD23	19:AI:15:LEU:H	1.83	0.44
23:2K:17:C:O2'	23:2K:18:C:H5	1.99	0.44
26:1H:1252:G:N3	45:C8:33:ARG:HD2	2.33	0.44
26:1H:1387:C:C2	26:1H:1388:G:C8	3.06	0.44
26:1H:1799:G:H5'	26:1H:1819:A:N6	2.31	0.44
26:1H:2134:A:C2	26:1H:2159:G:H1'	2.51	0.44
26:1H:2334:G:C2	43:A8:12:PHE:CD1	3.05	0.44
28:71:42:GLU:OE2	28:71:217:THR:HA	2.18	0.44
31:31:36:VAL:HG11	31:31:183:VAL:HG11	2.00	0.44
31:31:53:THR:C	31:31:55:GLY:N	2.75	0.44
32:41:83:ARG:HA	32:41:83:ARG:HD3	1.57	0.44
33:51:23:ARG:HD3	33:51:34:GLU:OE1	2.18	0.44
33:51:157:TYR:H	33:51:170:ARG:HA	1.82	0.44
38:58:43:THR:HB	38:58:46:VAL:HB	1.99	0.44
40:78:62:LEU:O	59:Q8:13:ARG:HD3	2.17	0.44
44:B8:16:ARG:NH2	44:B8:19:LEU:HD21	2.32	0.44
45:C8:8:VAL:HG23	45:C8:11:ARG:HH21	1.82	0.44
49:G8:85:VAL:C	49:G8:86:ARG:HD3	2.42	0.44
52:J8:53:VAL:HG12	52:J8:54:ALA:H	1.82	0.44
52:J8:93:GLU:HB2	52:J8:94:LEU:O	2.17	0.44
1:1G:35:G:C2	1:1G:550:G:N3	2.85	0.44
1:1G:324:G:N1	1:1G:327:A:OP2	2.50	0.44
1:1G:1347:G:N7	9:82:107:ARG:NH1	2.64	0.44
4:32:60:GLU:CD	4:32:199:ASN:H	2.26	0.44
5:42:70:PRO:HD2	5:42:142:LEU:HB2	1.99	0.44
7:62:93:PRO:HB2	7:62:94:ARG:NE	2.32	0.44
12:3A:70:ILE:HD13	12:3A:75:HIS:CD2	2.52	0.44
14:5A:9:LYS:H	14:5A:9:LYS:HG2	1.47	0.44
14:5A:12:ARG:HB2	14:5A:14:PRO:HD3	1.99	0.44
16:7A:15:PRO:O	16:7A:16:HIS:ND1	2.50	0.44
22:1L:5:C:O2'	22:1L:6:C:H5'	2.18	0.44
24:3L:26:U:H3'	24:3L:27:A:H5"	1.98	0.44
26:14:122:G:O6	63:14:3900:HOH:O	2.21	0.44
26:14:676:A:H1'	26:14:2443:C:H1'	1.98	0.44
26:14:1017:G:H5'	26:14:1018:C:OP2	2.18	0.44
26:14:2052:G:O4'	30:29:142:GLY:HA3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2213:U:H5'	52:F5:52:ARG:NH2	2.32	0.44
29:19:102:LYS:C	29:19:103:ARG:HG2	2.42	0.44
31:39:182:ASN:O	31:39:186:ILE:HG12	2.17	0.44
31:39:184:TYR:CE2	31:39:188:ARG:HD3	2.52	0.44
35:69:79:ILE:HG21	35:69:142:VAL:HG12	1.99	0.44
35:69:128:LEU:HD13	35:69:128:LEU:HA	1.68	0.44
40:35:41:ARG:N	40:35:41:ARG:HD2	2.31	0.44
42:55:33:ARG:HA	42:55:115:GLU:HA	1.99	0.44
46:95:19:LYS:HE3	46:95:19:LYS:HB3	1.65	0.44
1:13:101:A:N7	63:13:1905:HOH:O	2.50	0.44
1:13:554:C:H2'	1:13:555:C:H6	1.82	0.44
1:13:703:G:H8	1:13:703:G:O5'	2.01	0.44
1:13:1190:G:OP1	3:2E:5:ILE:N	2.43	0.44
1:13:1405:G:O4'	1:13:1519:A:H4'	2.17	0.44
1:13:1533:C:H1'	1:13:1534:A:P	2.57	0.44
4:3E:90:GLY:O	4:3E:93:PHE:HB3	2.18	0.44
8:7E:104:ARG:HG3	8:7E:138:TRP:CD1	2.52	0.44
11:2I:54:ARG:H	11:2I:54:ARG:HG2	1.56	0.44
26:1H:120:U:P	63:1H:3783:HOH:O	2.73	0.44
26:1H:271(A):C:O2'	26:1H:271(B):G:H5'	2.17	0.44
26:1H:297:C:H5"	49:G8:86:ARG:HG2	1.99	0.44
26:1H:336:C:OP1	49:G8:83:THR:HG23	2.18	0.44
26:1H:455:C:N3	26:1H:473:G:H5'	2.32	0.44
26:1H:2033:A:OP1	63:1H:3933:HOH:O	2.20	0.44
31:31:23:ASP:CG	31:31:24:LEU:H	2.26	0.44
31:31:29:ASN:N	31:31:112:MET:HE1	2.25	0.44
32:41:109:VAL:HG21	55:M8:14:ILE:HD13	1.98	0.44
32:41:116:ASP:O	32:41:117:PHE:C	2.59	0.44
33:51:4:ILE:HG21	33:51:6:ARG:HE	1.82	0.44
36:38:25:PHE:CZ	36:38:84:GLU:HA	2.52	0.44
36:38:27:VAL:HG12	36:38:28:ASN:N	2.32	0.44
36:38:138:LEU:HG	34:28:22:GLN:HG2	1.99	0.44
43:A8:68:GLN:HG3	43:A8:71:ARG:HH12	1.81	0.44
44:B8:107:ASP:H	44:B8:110:ILE:HG23	1.82	0.44
58:P8:31:LEU:O	58:P8:32:LYS:C	2.61	0.44
1:1G:1022:G:C5	1:1G:1023:G:C8	3.06	0.44
1:1G:1217:C:H2'	1:1G:1218:C:C6	2.52	0.44
1:1G:1237:C:H5"	1:1G:1238:A:O4'	2.17	0.44
1:1G:1453:G:O2'	1:1G:1454:G:P	2.75	0.44
2:12:21:ARG:C	2:12:23:ARG:H	2.25	0.44
2:12:47:THR:HG23	2:12:202:PRO:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1A:28:ARG:HH12	10:1A:34:VAL:H	1.64	0.44
13:4A:81:LEU:HD23	13:4A:89:GLY:HA2	1.99	0.44
26:14:300:A:H2'	26:14:334:C:H1'	1.99	0.44
26:14:459:U:H2'	26:14:460:A:C8	2.53	0.44
26:14:729:G:C8	29:19:208:LYS:HD2	2.52	0.44
26:14:1086:A:H4'	26:14:1103:A:H61	1.83	0.44
26:14:1418:G:H2'	26:14:1579:A:N6	2.32	0.44
26:14:1599:C:H2'	26:14:1600:C:C6	2.49	0.44
26:14:2012:G:OP1	47:A5:11:ARG:NH2	2.39	0.44
26:14:2308:G:H3'	26:14:2310:A:OP2	2.17	0.44
26:14:2313:C:H2'	26:14:2314:C:C6	2.52	0.44
26:14:2885:C:N3	26:14:2886:G:H1'	2.32	0.44
27:1J:90:C:H6	27:1J:90:C:H5"	1.83	0.44
32:49:135:LEU:HD13	32:49:155:MET:HG3	1.99	0.44
33:59:52:VAL:HG21	33:59:69:ARG:HA	1.99	0.44
35:69:4:ILE:HA	35:69:17:GLN:O	2.18	0.44
35:69:62:LYS:HG3	35:69:63:ALA:N	2.29	0.44
43:65:106:ARG:HA	43:65:110:LEU:HD11	1.98	0.44
43:65:109:GLY:O	43:65:110:LEU:HD12	2.17	0.44
44:75:36:GLU:HG2	44:75:37:GLY:N	2.31	0.44
49:C5:31:LEU:HD13	49:C5:36:ALA:HB3	1.98	0.44
50:D5:99:TYR:HB3	50:D5:123:ASP:HB3	1.98	0.44
1:13:637:G:H2'	1:13:638:G:H8	1.82	0.44
1:13:684:A:C6	1:13:685:G:C6	3.06	0.44
1:13:1236:A:OP1	21:1F:3:LYS:HE3	2.18	0.44
1:13:1365:G:C6	1:13:1366:C:C4	3.05	0.44
1:13:1510:U:H2'	1:13:1511:G:C8	2.52	0.44
2:1E:55:PHE:HD1	2:1E:55:PHE:HA	1.65	0.44
7:6E:85:TYR:CE2	7:6E:154:TYR:HE2	2.35	0.44
10:1I:30:SER:O	10:1I:80:LYS:HB3	2.17	0.44
12:3I:86:ARG:HB2	12:3I:101:VAL:CG2	2.47	0.44
17:8I:100:LYS:CG	17:8I:101:ARG:HE	2.31	0.44
22:1K:33:RSP:H2'	22:1K:33:RSP:S2	2.57	0.44
24:3K:73:C:H3'	24:3K:74:A:H5"	1.98	0.44
26:1H:154:G:H2'	26:1H:155:C:C6	2.52	0.44
26:1H:883:G:H2'	26:1H:884:C:H4'	1.98	0.44
26:1H:1782:C:H3'	63:1H:3745:HOH:O	2.16	0.44
26:1H:2447:G:N2	26:1H:2450:A:OP2	2.51	0.44
26:1H:2680:C:H5'	30:21:189:PRO:HA	1.99	0.44
29:11:108:PRO:HD2	29:11:111:LEU:HG	2.00	0.44
35:61:120:ILE:HD11	35:61:126:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:38:85:ASP:OD1	36:38:87:VAL:HG12	2.18	0.44
37:48:21:PRO:HB2	37:48:22:PRO:HD3	1.98	0.44
37:48:58:THR:H	37:48:66:THR:HG21	1.82	0.44
37:48:108:ALA:O	37:48:111:LYS:HG2	2.16	0.44
39:68:98:VAL:HG11	39:68:114:ILE:HG23	2.00	0.44
44:B8:120:ARG:HA	44:B8:123:GLN:HG2	1.99	0.44
48:F8:35:THR:HG23	48:F8:38:GLU:HB3	1.98	0.44
48:F8:36:LYS:HE2	48:F8:54:VAL:O	2.18	0.44
51:I8:75:LEU:HD23	51:I8:75:LEU:HA	1.75	0.44
57:O8:51:GLU:HG2	57:O8:52:VAL:N	2.32	0.44
59:Q8:54:GLU:O	59:Q8:58:ILE:HD13	2.17	0.44
1:1G:10:A:O2'	1:1G:507:C:O2'	2.30	0.44
1:1G:583:A:H2'	1:1G:584:G:O4'	2.18	0.44
1:1G:775:G:C2'	1:1G:776:G:H5'	2.47	0.44
1:1G:926:G:H3'	1:1G:1505:G:H21	1.81	0.44
1:1G:1206:G:P	3:22:190:ARG:NH2	2.90	0.44
1:1G:1260:C:P	1:1G:1284:C:H4'	2.58	0.44
1:1G:1509:C:H2'	1:1G:1510:U:O4'	2.17	0.44
5:42:7:GLU:HG2	5:42:8:GLU:N	2.32	0.44
8:72:54:ASP:N	8:72:54:ASP:OD1	2.50	0.44
9:82:16:ARG:O	9:82:63:ILE:HG23	2.16	0.44
9:82:95:LYS:O	9:82:95:LYS:HG2	2.17	0.44
10:1A:76:ASN:OD1	10:1A:76:ASN:N	2.45	0.44
12:3A:34:ARG:H	12:3A:34:ARG:HG3	1.64	0.44
23:2L:45:A:H5"	23:2L:46:G:OP2	2.17	0.44
24:3L:35:A:HO2'	24:3L:36:C:P	2.40	0.44
26:14:128:C:H2'	26:14:129:C:C6	2.53	0.44
26:14:144:C:H2'	26:14:145:G:H8	1.82	0.44
26:14:185:U:H4'	26:14:218:A:H4'	1.99	0.44
26:14:855:G:H5"	26:14:856:C:OP2	2.16	0.44
26:14:1149:G:H2'	26:14:1150:C:C6	2.52	0.44
26:14:1183:G:O3'	54:H5:29:ARG:NH2	2.50	0.44
26:14:1568:G:OP1	29:19:63:ARG:NH1	2.39	0.44
26:14:2415:G:C2	26:14:2416:C:C2	3.05	0.44
29:19:166:GLN:HB3	29:19:174:ILE:HG22	2.00	0.44
31:39:107:LYS:HE2	31:39:205:ARG:HD2	1.98	0.44
31:39:129:PHE:HA	31:39:142:TRP:NE1	2.33	0.44
32:49:60:LEU:O	32:49:64:THR:HG23	2.18	0.44
33:59:9:ILE:CG2	33:59:51:ARG:HG3	2.47	0.44
41:45:23:GLY:HA2	41:45:101:ARG:NH1	2.32	0.44
47:A5:65:LEU:HD12	47:A5:68:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B5:47:PHE:C	48:B5:48:LYS:HE2	2.42	0.44
1:13:1059:C:O3'	14:5I:45:ARG:NH2	2.51	0.44
2:1E:131:PRO:HD2	2:1E:134:GLU:HB3	1.99	0.44
3:2E:8:ILE:HD12	3:2E:8:ILE:HA	1.86	0.44
4:3E:126:ILE:HG22	4:3E:127:THR:N	2.33	0.44
8:7E:25:ASP:OD1	8:7E:60:ARG:HG3	2.18	0.44
17:8I:88:TYR:CD1	17:8I:88:TYR:C	2.95	0.44
26:1H:71:A:OP1	26:1H:72:U:H2'	2.18	0.44
26:1H:1012:U:O4	38:58:25:ARG:HA	2.17	0.44
26:1H:1105:U:H2'	26:1H:1106:G:H8	1.82	0.44
26:1H:1316:U:H2'	26:1H:1317:A:H8	1.80	0.44
26:1H:1444:G:C2	26:1H:1548:C:N3	2.86	0.44
26:1H:1486:A:H2'	26:1H:1487:G:C8	2.52	0.44
26:1H:1537:C:H2'	26:1H:1538:G:H4'	1.99	0.44
26:1H:1753:G:N1	26:1H:1756:G:C2	2.86	0.44
26:1H:2125:G:N1	26:1H:2171:A:H5"	2.32	0.44
26:1H:2712:U:OP1	26:1H:2714:G:H4'	2.18	0.44
26:1H:2714:G:P	63:1H:4232:HOH:O	2.75	0.44
32:41:129:GLY:O	32:41:161:THR:HB	2.17	0.44
32:41:165:THR:HG22	32:41:167:GLU:N	2.30	0.44
38:58:41:ASP:O	38:58:48:MET:HE3	2.18	0.44
39:68:64:ARG:O	39:68:82:ASN:HA	2.17	0.44
45:C8:102:GLU:HG3	46:D8:2:PHE:CZ	2.53	0.44
53:K8:15:LYS:HA	53:K8:67:LYS:HZ1	1.81	0.44
1:1G:272:C:H2'	1:1G:273:A:C8	2.48	0.44
1:1G:396:G:O2'	1:1G:398:C:OP1	2.17	0.44
1:1G:626:U:C2	1:1G:627:G:C8	3.06	0.44
1:1G:1008:C:H42	1:1G:1021:G:H1	1.65	0.44
1:1G:1255:G:OP1	10:1A:45:ARG:NH2	2.47	0.44
1:1G:1399:C:H4'	1:1G:1400:C:H5"	1.99	0.44
7:62:26:PHE:O	7:62:30:ILE:HG13	2.17	0.44
7:62:38:LEU:O	7:62:42:ILE:HG13	2.17	0.44
7:62:70:LYS:CG	7:62:96:GLN:HB3	2.48	0.44
11:2A:17:GLY:HA3	11:2A:77:MET:SD	2.58	0.44
12:3A:85:ILE:HD12	12:3A:85:ILE:HA	1.61	0.44
15:6A:70:LEU:HD11	15:6A:77:ARG:HG3	1.99	0.44
20:BA:23:ARG:NH2	20:BA:27:LYS:HD2	2.33	0.44
20:BA:75:ASN:HA	20:BA:78:ALA:HB3	1.99	0.44
26:14:1056:G:H5"	26:14:1057:A:H5'	1.98	0.44
26:14:1372:U:H2'	26:14:1373:A:O4'	2.18	0.44
26:14:1416:G:O2'	26:14:1417:C:O5'	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2688:U:C5	26:14:2720:U:OP2	2.70	0.44
28:79:35:ALA:HB1	28:79:37:PHE:CD1	2.53	0.44
30:29:57:LYS:HD3	30:29:57:LYS:HA	1.53	0.44
31:39:170:LEU:HD13	31:39:172:TRP:CZ2	2.52	0.44
32:49:135:LEU:HB2	32:49:155:MET:HG2	1.99	0.44
40:35:47:ASP:OD2	40:35:50:ARG:NH1	2.51	0.44
41:45:10:ARG:HA	41:45:10:ARG:NH1	2.21	0.44
41:45:33:GLY:N	41:45:132:VAL:O	2.40	0.44
42:55:33:ARG:HD3	42:55:113:LEU:HD11	1.98	0.44
50:D5:28:MET:HG2	50:D5:37:VAL:HG11	1.99	0.44
50:D5:98:MET:CE	50:D5:100:VAL:HG22	2.47	0.44
50:D5:119:GLU:H	50:D5:119:GLU:HG3	1.50	0.44
1:13:353:A:H5'	1:13:353:A:C8	2.45	0.44
1:13:616:G:C2	1:13:617:G:N7	2.86	0.44
1:13:820:U:H4'	1:13:821:G:OP2	2.16	0.44
1:13:1229:A:C2	1:13:1230:C:C4	3.06	0.44
8:7E:45:ILE:HG22	8:7E:63:LEU:HA	2.00	0.44
10:1I:48:THR:O	14:5I:34:TYR:OH	2.36	0.44
22:1K:56:PSU:H6	22:1K:56:PSU:O5'	2.01	0.44
24:3K:72:G:H1'	26:1H:1851:U:O2'	2.16	0.44
26:1H:155:C:H5'	26:1H:161:U:OP2	2.17	0.44
26:1H:533:G:H5'	45:C8:24:TYR:CD1	2.53	0.44
26:1H:1006:C:C2	26:1H:1138:G:N2	2.86	0.44
26:1H:1068:G:H4'	26:1H:1096:A:C2	2.53	0.44
26:1H:1657:C:OP2	30:21:136:ARG:HG3	2.18	0.44
26:1H:1728:G:H3'	26:1H:1729:A:C5'	2.46	0.44
26:1H:1790:C:H2'	26:1H:1791:A:C5	2.53	0.44
26:1H:1814:G:OP1	29:11:40:THR:HG21	2.18	0.44
26:1H:2314:C:H2'	26:1H:2315:G:C8	2.52	0.44
26:1H:2592:G:C6	26:1H:2593:U:N3	2.85	0.44
41:88:66:ILE:HD12	41:88:67:ARG:H	1.83	0.44
44:B8:9:LEU:O	44:B8:11:GLU:N	2.51	0.44
58:P8:1:MET:O	58:P8:2:LYS:C	2.61	0.44
1:1G:12:U:H4'	1:1G:526:C:O2'	2.18	0.44
1:1G:1515:C:H2'	1:1G:1516:G:C8	2.53	0.44
2:12:213:LEU:HD23	2:12:214:ILE:HD13	1.98	0.44
3:22:120:VAL:HG21	3:22:137:ALA:HB2	1.98	0.44
4:32:57:ARG:HH21	4:32:205:GLU:HG2	1.82	0.44
4:32:168:ARG:HH11	4:32:169:LYS:N	1.98	0.44
5:42:121:LYS:HA	5:42:121:LYS:HZ2	1.82	0.44
5:42:137:GLU:OE1	5:42:141:GLN:NE2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:52:35:ALA:HB2	6:52:67:MET:HE3	2.00	0.44
13:4A:83:ASP:CG	13:4A:84:ILE:H	2.24	0.44
16:7A:79:VAL:C	16:7A:80:PHE:HD1	2.26	0.44
23:2L:20:G:C4	23:2L:58:A:C2	3.06	0.44
26:14:28:A:C2	26:14:513:A:C8	3.04	0.44
26:14:55:G:O2'	26:14:127:A:N1	2.48	0.44
26:14:275:G:N2	26:14:276:A:C8	2.84	0.44
26:14:861:A:C2	26:14:917:A:C4	3.06	0.44
26:14:1312:U:H4'	26:14:1313:U:O5'	2.18	0.44
26:14:1568:G:P	29:19:63:ARG:HH12	2.39	0.44
26:14:2273:A:H2'	26:14:2274:A:H8	1.79	0.44
26:14:2331:G:O2'	51:E5:43:THR:HG22	2.18	0.44
26:14:2400:G:H3'	26:14:2401:U:C6	2.52	0.44
26:14:2469:A:H3'	26:14:2470:G:C8	2.50	0.44
26:14:2766:G:H5"	26:14:2767:C:OP2	2.17	0.44
27:1J:12:C:H6	27:1J:12:C:OP2	2.00	0.44
29:19:43:ARG:CG	29:19:43:ARG:NH2	2.75	0.44
30:29:51:PHE:CD2	30:29:52:LEU:HB2	2.53	0.44
31:39:38:ARG:HH21	31:39:99:TYR:HE2	1.65	0.44
32:49:43:LEU:HD12	32:49:45:GLU:CD	2.43	0.44
33:59:119:GLU:O	33:59:121:ILE:HG12	2.17	0.44
38:15:4:TYR:CD2	45:85:100:VAL:HG11	2.53	0.44
41:45:21:THR:HG21	41:45:101:ARG:HD2	1.98	0.44
43:65:89:ARG:O	43:65:92:TYR:N	2.50	0.44
45:85:92:ARG:NH1	46:95:11:GLN:H	2.14	0.44
52:F5:88:LYS:HB3	52:F5:88:LYS:HE2	1.61	0.44
1:13:191(F):U:H2'	1:13:191:G:H8	1.82	0.44
1:13:232:G:H2'	1:13:233:C:H6	1.83	0.44
1:13:437:U:C5'	4:3E:155:LEU:HD21	2.48	0.44
1:13:1135:U:H2'	1:13:1137:C:N3	2.33	0.44
3:2E:133:ALA:O	3:2E:136:GLN:HG3	2.18	0.44
3:2E:188:LEU:HD22	3:2E:188:LEU:HA	1.82	0.44
4:3E:64:LEU:O	4:3E:67:ILE:HB	2.18	0.44
6:5E:26:ILE:O	6:5E:30:LEU:HD12	2.16	0.44
8:7E:95:VAL:HG12	8:7E:96:GLY:O	2.17	0.44
9:8E:42:ARG:HE	9:8E:42:ARG:HB2	1.56	0.44
11:2I:73:MET:HE1	11:2I:101:SER:O	2.18	0.44
13:4I:39:ILE:HD12	13:4I:56:LEU:HG	2.00	0.44
24:3K:45:C:C2'	24:3K:46:G:H5'	2.48	0.44
26:1H:758:C:O2	26:1H:1981:A:H2	2.01	0.44
26:1H:1095:A:H2'	26:1H:1095:A:N3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2016:U:H1'	56:N8:6:VAL:HG13	1.98	0.44
26:1H:2751:G:C8	26:1H:2751:G:P	3.11	0.44
31:31:136:THR:HA	31:31:166:ALA:O	2.18	0.44
32:41:51:ARG:CZ	32:41:51:ARG:HB2	2.48	0.44
33:51:157:TYR:O	33:51:158:HIS:CG	2.70	0.44
36:38:65:GLU:HB3	36:38:66:LEU:HD12	1.99	0.44
37:48:52:ILE:HD12	37:48:53:VAL:H	1.82	0.44
37:48:122:ALA:O	37:48:125:ARG:N	2.51	0.44
38:58:35:ARG:O	38:58:42:TRP:HZ3	2.00	0.44
42:98:67:LEU:CD2	42:98:76:VAL:HG21	2.45	0.44
49:G8:87:LYS:NZ	49:G8:89:PHE:HA	2.33	0.44
53:K8:47:ASN:HB2	53:K8:48:HIS:H	1.55	0.44
57:O8:43:CYS:HB2	57:O8:44:ARG:NH1	2.33	0.44
1:1G:27:G:H8	1:1G:27:G:O5'	2.01	0.44
2:12:5:ILE:HG13	2:12:221:LEU:HD22	1.99	0.44
2:12:74:LYS:HE2	2:12:76:GLN:HG3	2.00	0.44
4:32:61:LYS:HE2	4:32:206:PHE:HE2	1.83	0.44
6:52:53:ALA:HB3	6:52:86:ARG:HD3	2.00	0.44
7:62:93:PRO:CD	7:62:94:ARG:HH21	2.17	0.44
16:7A:1:MET:HB2	16:7A:1:MET:HE3	1.43	0.44
20:BA:35:THR:O	20:BA:38:LYS:HB3	2.17	0.44
26:14:254:G:N7	59:M5:5:LYS:HE2	2.32	0.44
26:14:270(F):U:H3	26:14:270(T):G:H1	1.66	0.44
26:14:581:C:H2'	26:14:582:G:C8	2.53	0.44
26:14:783:A:P	63:19:302:HOH:O	2.76	0.44
26:14:1535:U:C4	26:14:1536:A:C6	3.05	0.44
26:14:1757:U:C2	26:14:1762:A:H2	2.36	0.44
26:14:2109:U:H3	26:14:2180:U:H3	1.66	0.44
26:14:2552:U:C2	26:14:2554:U:H5'	2.53	0.44
26:14:2852:G:H2'	26:14:2853:C:C6	2.52	0.44
30:29:34:VAL:HG12	30:29:64:LYS:HE3	1.99	0.44
40:35:97:PRO:HD3	40:35:126:VAL:HB	1.99	0.44
41:45:19:GLY:O	41:45:99:PRO:HD2	2.17	0.44
42:55:107:ASP:C	42:55:107:ASP:OD1	2.60	0.44
45:85:28:ARG:NH1	45:85:38:THR:OG1	2.48	0.44
50:D5:104:PHE:HE2	50:D5:119:GLU:HA	1.83	0.44
53:G5:47:ASN:C	53:G5:49:LYS:H	2.25	0.44
1:13:93:U:H2'	1:13:95:G:H5"	2.00	0.44
1:13:292:G:N7	1:13:293:G:H1'	2.33	0.44
1:13:357:G:O2'	35:69:89:TYR:O	2.33	0.44
1:13:390:C:H2'	1:13:391:G:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:401:C:H2'	1:13:402:G:C8	2.53	0.44
1:13:552:U:O4	1:13:553:A:N6	2.50	0.44
1:13:794:A:C6	1:13:795:C:C4	3.05	0.44
1:13:871:U:OP1	63:13:1963:HOH:O	2.20	0.44
1:13:980:C:H5"	1:13:981:U:OP2	2.17	0.44
1:13:1216:G:OP2	14:5I:1:MET:HA	2.18	0.44
2:1E:5:ILE:HG13	2:1E:6:THR:N	2.32	0.44
2:1E:28:PHE:HD2	2:1E:190:THR:HG23	1.82	0.44
2:1E:149:LEU:HD22	2:1E:152:PHE:HD2	1.83	0.44
4:3E:98:GLU:O	4:3E:103:ASN:ND2	2.51	0.44
11:2I:59:TYR:O	11:2I:63:LEU:HD12	2.18	0.44
14:5I:6:LEU:CD1	14:5I:23:ARG:HH22	2.31	0.44
26:1H:141:A:H8	26:1H:1408:C:H1'	1.82	0.44
26:1H:1070:A:N7	26:1H:1096:A:H2'	2.33	0.44
26:1H:1171:G:C5	26:1H:1174:A:N6	2.85	0.44
26:1H:1906:G:H8	26:1H:1929:G:H2'	1.83	0.44
26:1H:2602:A:OP2	26:1H:2603:G:H5"	2.17	0.44
33:51:129:THR:O	33:51:129:THR:OG1	2.32	0.44
37:48:123:ALA:O	37:48:127:ILE:HG12	2.18	0.44
48:F8:11:PRO:HD3	53:K8:37:PHE:CD2	2.52	0.44
48:F8:18:TYR:O	48:F8:20:GLY:N	2.51	0.44
50:H8:48:PHE:HE1	50:H8:71:VAL:HG11	1.83	0.44
58:P8:5:TRP:HA	58:P8:5:TRP:CE3	2.51	0.44
1:1G:81:G:O2'	1:1G:82:U:O5'	2.32	0.44
1:1G:690:G:C6	1:1G:691:G:C6	3.05	0.44
1:1G:1243:C:OP1	21:1B:10:ARG:NE	2.50	0.44
1:1G:1298:C:H4'	1:1G:1299:A:C5	2.52	0.44
1:1G:1349:A:OP2	9:82:118:LYS:NZ	2.45	0.44
2:12:7:VAL:HG13	2:12:8:LYS:HD3	2.00	0.44
2:12:17:PHE:HE2	2:12:44:LEU:HB3	1.80	0.44
2:12:91:PRO:HD3	2:12:155:LEU:HD23	1.98	0.44
3:22:11:ARG:HB2	3:22:11:ARG:HH11	1.83	0.44
4:32:33:MET:C	4:32:35:ARG:H	2.25	0.44
5:42:39:GLY:H	5:42:71:LEU:HD12	1.83	0.44
12:3A:27:LEU:C	12:3A:29:GLY:N	2.72	0.44
20:BA:45:GLN:HA	20:BA:91:LEU:HD22	1.99	0.44
26:14:667:U:O2	59:M5:2:PRO:HD2	2.18	0.44
26:14:1042:G:H2'	26:14:1043:C:O4'	2.16	0.44
26:14:1392:A:N6	26:14:1393:A:N6	2.65	0.44
26:14:1754:C:P	44:75:96:ARG:HH12	2.41	0.44
26:14:2392:A:H2	26:14:2424:C:N4	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2726:U:O2'	26:14:2727:G:H8	2.00	0.44
26:14:2865:U:C4	26:14:2866:U:C4	3.06	0.44
27:1J:9:G:P	43:65:25:ARG:HH22	2.40	0.44
27:1J:90:C:OP2	41:45:16:ARG:NH2	2.51	0.44
29:19:147:LEU:HD23	29:19:155:LEU:HD21	1.99	0.44
31:39:123:LEU:C	31:39:125:LEU:H	2.17	0.44
32:49:37:VAL:HG23	32:49:99:MET:HE3	1.99	0.44
33:59:4:ILE:HB	33:59:6:ARG:CZ	2.48	0.44
35:69:140:LEU:HD12	35:69:141:LYS:N	2.28	0.44
43:65:61:ASN:O	43:65:65:VAL:HG23	2.17	0.44
48:B5:40:LYS:C	48:B5:42:ALA:H	2.26	0.44
53:G5:37:PHE:C	53:G5:39:ALA:N	2.74	0.44
1:13:91:C:N4	1:13:92:G:O6	2.51	0.44
1:13:735:C:H2'	1:13:736:C:C6	2.46	0.44
1:13:1051:C:H2'	1:13:1052:U:H6	1.83	0.44
1:13:1144:G:H21	1:13:1146:A:N6	2.15	0.44
1:13:1402:C:H2'	1:13:1403:C:O4'	2.18	0.44
2:1E:36:ARG:O	2:1E:41:ILE:HD11	2.18	0.44
2:1E:74:LYS:HD2	2:1E:74:LYS:HA	1.74	0.44
7:6E:79:ARG:CZ	7:6E:84:ASN:HD22	2.30	0.44
15:6I:55:GLY:HA2	15:6I:58:MET:HE3	1.99	0.44
16:7I:80:PHE:N	16:7I:80:PHE:CD1	2.84	0.44
19:AI:15:LEU:HA	19:AI:18:LYS:CG	2.45	0.44
19:AI:18:LYS:HG3	19:AI:31:ILE:HD12	1.99	0.44
23:2K:70:C:H2'	23:2K:71:G:O4'	2.17	0.44
26:1H:164:U:H5'	26:1H:165:U:OP2	2.18	0.44
26:1H:309:G:N3	26:1H:329:G:O2'	2.49	0.44
26:1H:526:A:N6	26:1H:2626:C:H4'	2.32	0.44
26:1H:775:G:C4	26:1H:794:G:C8	3.06	0.44
26:1H:880:G:C6	26:1H:881:G:N7	2.86	0.44
26:1H:1359:A:N1	26:1H:1372:U:O4	2.51	0.44
26:1H:1432:C:H2'	26:1H:1433:U:O4'	2.18	0.44
26:1H:1589:C:H2'	26:1H:1590:U:C6	2.53	0.44
27:16:20:C:H2'	27:16:21:G:O4'	2.18	0.44
28:71:7:TYR:CE1	28:71:220:PRO:HB3	2.53	0.44
29:11:92:ILE:HD12	29:11:104:TYR:CE1	2.53	0.44
29:11:223:GLY:HA2	29:11:231:HIS:CD2	2.52	0.44
30:21:68:ALA:C	30:21:70:ALA:H	2.25	0.44
31:31:178:PRO:HG2	31:31:179:GLU:CD	2.43	0.44
36:38:25:PHE:CE1	36:38:84:GLU:HA	2.53	0.44
38:58:39:ARG:HH21	38:58:41:ASP:CG	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:G8:83:THR:HG22	49:G8:84:ARG:HG2	1.99	0.44
51:I8:23:VAL:HB	51:I8:26:TYR:HE1	1.83	0.44
51:I8:42:GLY:O	51:I8:57:PHE:CD2	2.71	0.44
1:1G:4:U:C5	8:72:102:ARG:HG3	2.52	0.44
1:1G:199:G:H2'	1:1G:200:G:H8	1.83	0.44
1:1G:298:A:H5"	1:1G:299:G:OP2	2.17	0.44
1:1G:430:A:H2'	1:1G:431:A:H8	1.83	0.44
1:1G:1105:A:H2'	1:1G:1106:G:C8	2.49	0.44
3:22:20:SER:HB2	3:22:40:ARG:NH2	2.28	0.44
3:22:59:ARG:HB3	3:22:64:VAL:HA	1.99	0.44
3:22:111:LEU:HG	3:22:141:VAL:HG13	1.99	0.44
7:62:42:ILE:HG23	7:62:117:ALA:HB2	2.00	0.44
17:8A:45:HIS:ND1	17:8A:65:ILE:HG21	2.33	0.44
19:AA:7:LYS:HA	19:AA:8:GLY:O	2.18	0.44
22:1L:23:G:HO2'	22:1L:24:A:P	2.41	0.44
26:14:243:U:OP1	59:M5:6:THR:OG1	2.26	0.44
26:14:602:G:OP2	26:14:602:G:H8	2.01	0.44
26:14:1116:C:H2'	26:14:1117:G:H8	1.82	0.44
26:14:2303:G:C2'	26:14:2304:G:H5'	2.47	0.44
26:14:2342:C:O2'	26:14:2374:C:H5"	2.18	0.44
29:19:30:GLU:HG3	29:19:63:ARG:NH2	2.33	0.44
29:19:267:SER:C	29:19:269:PHE:H	2.26	0.44
32:49:40:ASN:HB2	32:49:91:ARG:HG3	2.00	0.44
32:49:176:LEU:HA	32:49:176:LEU:HD23	1.76	0.44
35:69:93:THR:CG2	35:69:119:PRO:HG3	2.48	0.44
40:35:6:LEU:HD13	40:35:6:LEU:HA	1.86	0.44
41:45:86:GLY:C	41:45:88:GLY:H	2.19	0.44
45:85:47:TYR:HA	45:85:50:ARG:NH2	2.33	0.44
48:B5:14:SER:O	48:B5:17:ALA:N	2.51	0.44
48:B5:32:PRO:HA	48:B5:77:LYS:HB2	1.99	0.44
50:D5:15:PRO:HB2	50:D5:19:ARG:NH2	2.32	0.44
56:J5:45:VAL:HG22	56:J5:51:TYR:HD2	1.82	0.44
1:13:269:C:H2'	1:13:270:A:H8	1.82	0.43
1:13:721:G:C6	1:13:733:A:C2	3.06	0.43
1:13:760:G:H2'	1:13:761:G:H5'	2.00	0.43
1:13:1153:C:H2'	1:13:1154:G:O4'	2.17	0.43
1:13:1347:G:N2	1:13:1374:A:OP2	2.46	0.43
2:1E:23:ARG:HB3	2:1E:23:ARG:NH1	2.33	0.43
2:1E:89:GLY:O	2:1E:90:MET:HE2	2.17	0.43
7:6E:92:SER:HB2	7:6E:95:ARG:HB3	2.00	0.43
23:2K:33:OMC:HM23	23:2K:33:OMC:H1'	1.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:31:C:P	63:1H:3973:HOH:O	2.76	0.43
26:1H:958:U:OP2	41:88:14:ARG:NH1	2.51	0.43
26:1H:1071:G:H22	26:1H:1091:G:H8	1.64	0.43
26:1H:1073:A:OP2	26:1H:1094:U:N3	2.43	0.43
26:1H:1145:C:H2'	26:1H:1146:C:H6	1.83	0.43
26:1H:1321:A:H2'	26:1H:1322:A:O4'	2.17	0.43
26:1H:1748:G:H2'	26:1H:1749:A:C8	2.53	0.43
26:1H:2126:A:H4'	26:1H:2127:G:OP1	2.17	0.43
26:1H:2684:U:C4	26:1H:2685:G:N7	2.86	0.43
27:16:24:G:C2	27:16:56:G:C2	3.06	0.43
30:21:173:VAL:N	30:21:183:LEU:O	2.51	0.43
31:31:78:ILE:HA	31:31:83:PHE:CD2	2.53	0.43
36:38:142:LEU:HD12	36:38:143:GLN:HG3	1.99	0.43
37:48:54:PRO:HD2	37:48:72:PRO:CA	2.48	0.43
37:48:110:GLN:O	37:48:113:PRO:HD2	2.18	0.43
44:B8:42:ILE:HG21	44:B8:84:GLN:NE2	2.33	0.43
1:1G:630:G:C4	1:1G:631:G:N7	2.86	0.43
1:1G:1205:U:O3'	3:22:190:ARG:NH2	2.51	0.43
1:1G:1243:C:O5'	1:1G:1243:C:H6	2.00	0.43
4:32:31:CYS:HB2	4:32:33:MET:O	2.18	0.43
7:62:65:ALA:HB1	7:62:127:ALA:HB3	2.01	0.43
10:1A:4:ILE:HG23	10:1A:100:THR:HG23	1.99	0.43
15:6A:43:LEU:HA	15:6A:43:LEU:HD23	1.74	0.43
26:14:91:A:C4	26:14:92:G:C8	3.06	0.43
26:14:705:A:H1'	29:19:9:TYR:CE2	2.53	0.43
26:14:862:G:OP2	63:14:3882:HOH:O	2.19	0.43
26:14:1105:U:H2'	26:14:1106:G:C8	2.53	0.43
26:14:2130:U:O2'	26:14:2134:A:H1'	2.18	0.43
26:14:2162:G:H3'	26:14:2164:C:C5	2.53	0.43
26:14:2485:G:H5"	41:45:46:GLN:NE2	2.32	0.43
28:79:190:ARG:HB3	28:79:194:ARG:NH1	2.33	0.43
30:29:116:VAL:HG21	30:29:122:PHE:CE2	2.53	0.43
31:39:28:ILE:HA	31:39:112:MET:HE3	1.99	0.43
31:39:148:LEU:HA	31:39:148:LEU:HD23	1.65	0.43
35:69:52:ARG:HA	35:69:55:ALA:HB3	2.00	0.43
42:55:97:VAL:HB	42:55:114:VAL:HG22	2.00	0.43
49:C5:82:PRO:CB	49:C5:100:ALA:H	2.30	0.43
1:13:22:G:H2'	1:13:23:C:H6	1.80	0.43
1:13:348:G:C2	1:13:349:A:C8	3.05	0.43
1:13:444:C:H2'	1:13:445:G:H8	1.83	0.43
1:13:956:U:H2'	1:13:957:U:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:164:VAL:HG23	2:1E:186:ALA:HB2	2.00	0.43
4:3E:19:LEU:HB3	4:3E:21:LEU:CD2	2.47	0.43
5:4E:34:VAL:O	5:4E:42:GLY:N	2.51	0.43
13:4I:27:LYS:O	13:4I:31:LYS:HD3	2.18	0.43
22:1K:75:C:H2'	22:1K:76:C:C5'	2.48	0.43
23:2K:2:G:H5"	23:2K:3:C:OP2	2.18	0.43
23:2K:21:U:O2	23:2K:21:U:H2'	2.17	0.43
24:3K:8:U:C4	24:3K:14:A:N7	2.86	0.43
26:1H:565:C:H4'	26:1H:1253:A:N6	2.32	0.43
26:1H:604:G:OP2	40:78:90:ARG:NH2	2.50	0.43
26:1H:669:G:C2	26:1H:801:G:C6	3.06	0.43
26:1H:764:A:O4'	29:11:213:ARG:HG3	2.18	0.43
26:1H:928:G:C8	63:1H:4051:HOH:O	2.70	0.43
26:1H:1918:A:O2'	26:1H:1920:C:N4	2.51	0.43
26:1H:2239:G:P	63:1H:3940:HOH:O	2.76	0.43
26:1H:2400:G:H1	26:1H:2416:C:H42	1.66	0.43
27:16:3:C:H2'	27:16:4:C:H6	1.83	0.43
27:16:7:G:O5'	43:A8:29:PHE:CE2	2.70	0.43
28:71:6:ARG:O	28:71:10:LEU:HD13	2.19	0.43
31:31:112:MET:HE3	31:31:112:MET:HB3	1.81	0.43
36:38:56:ASN:HA	36:38:60:ARG:CG	2.48	0.43
45:C8:21:ALA:O	45:C8:22:LYS:C	2.61	0.43
46:D8:36:PRO:HA	46:D8:37:VAL:HA	1.64	0.43
50:H8:81:ARG:HE	50:H8:81:ARG:HB2	1.34	0.43
1:1G:948:C:OP2	13:4A:106:ASN:HB2	2.18	0.43
1:1G:1123:A:H4'	10:1A:36:GLY:CA	2.38	0.43
2:12:107:THR:O	2:12:110:GLN:HB2	2.18	0.43
7:62:70:LYS:O	7:62:138:LYS:HD3	2.17	0.43
9:82:95:LYS:HZ3	9:82:96:LEU:N	2.16	0.43
12:3A:60:LEU:HB2	12:3A:64:TYR:HB3	1.98	0.43
13:4A:78:ILE:O	13:4A:79:LYS:HD3	2.18	0.43
13:4A:84:ILE:HG21	19:AA:74:PHE:CD1	2.53	0.43
20:BA:10:LEU:O	20:BA:12:ALA:N	2.50	0.43
21:1B:10:ARG:HA	21:1B:13:ILE:HD12	1.98	0.43
26:14:403:U:H3'	63:14:3783:HOH:O	2.17	0.43
26:14:528:A:C2	26:14:2043:C:H4'	2.53	0.43
26:14:1110:G:O3'	33:59:3:ARG:NH1	2.50	0.43
26:14:1525:G:H2'	26:14:1526:G:C8	2.52	0.43
26:14:1729:A:H1'	26:14:1730:U:C6	2.53	0.43
26:14:2056:G:C2	26:14:2057:A:C8	3.06	0.43
26:14:2629:A:H4'	26:14:2630:G:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2637:U:C4	26:14:2638:G:C6	3.06	0.43
26:14:2652:C:H2'	26:14:2653:U:O4'	2.18	0.43
26:14:2659:G:N2	26:14:2662:A:OP2	2.51	0.43
29:19:39:LYS:HG2	29:19:40:THR:H	1.83	0.43
30:29:5:LEU:HD21	30:29:49:LEU:HB2	1.99	0.43
31:39:14:PRO:O	31:39:15:SER:C	2.61	0.43
31:39:120:GLU:HG3	31:39:122:LYS:HG2	2.00	0.43
31:39:122:LYS:HB3	31:39:191:ARG:HB2	2.00	0.43
31:39:126:VAL:HG11	31:39:142:TRP:HH2	1.83	0.43
33:59:74:ASN:HA	33:59:77:LYS:CB	2.48	0.43
41:45:29:PHE:HB3	41:45:30:GLY:H	1.63	0.43
47:A5:4:LYS:NZ	47:A5:6:ILE:HD11	2.33	0.43
52:F5:71:TYR:O	52:F5:74:VAL:HG12	2.18	0.43
59:M5:8:LYS:HB3	59:M5:12:LYS:HE3	1.99	0.43
1:13:191(C):G:H2'	1:13:191(D):U:O4'	2.18	0.43
1:13:329:A:C5	1:13:332:G:C6	3.07	0.43
1:13:948:C:N4	63:13:2064:HOH:O	2.51	0.43
1:13:958:A:C6	1:13:959:A:C6	3.07	0.43
1:13:1206:G:C6	1:13:1207:G:C5	3.07	0.43
5:4E:110:LEU:HD13	5:4E:118:ILE:HG21	2.00	0.43
11:2I:77:MET:HE2	11:2I:77:MET:HB2	1.83	0.43
13:4I:14:ARG:HG2	13:4I:15:VAL:H	1.83	0.43
18:9I:22:VAL:CG1	18:9I:42:ARG:HH12	2.23	0.43
26:1H:125:G:H5'	26:1H:125:G:H8	1.82	0.43
26:1H:540:G:H2'	26:1H:541:C:H6	1.82	0.43
26:1H:989:G:OP1	26:1H:1157:G:O2'	2.29	0.43
26:1H:1153:C:C4	26:1H:1154:G:C5	3.06	0.43
26:1H:1174:A:C1'	26:1H:1178:C:H41	2.29	0.43
26:1H:1364:G:C8	52:J8:2:SER:N	2.86	0.43
26:1H:1526:G:H2'	26:1H:1527:G:O4'	2.18	0.43
26:1H:1710:C:N4	26:1H:1748:G:H1	2.16	0.43
26:1H:1799:G:H5'	26:1H:1819:A:H61	1.83	0.43
26:1H:1830:C:H42	26:1H:1975:G:H1	1.66	0.43
26:1H:1922:G:O2'	26:1H:1923:U:H5'	2.17	0.43
26:1H:2341:G:H2'	26:1H:2342:C:C6	2.54	0.43
26:1H:2525:G:H1	26:1H:2538:C:H42	1.67	0.43
26:1H:2634:G:H8	26:1H:2634:G:H5"	1.83	0.43
28:71:7:TYR:HA	28:71:10:LEU:HB2	2.00	0.43
29:11:70:TRP:CH2	29:11:150:LYS:HA	2.54	0.43
29:11:146:GLU:HB2	29:11:189:CYS:HB3	2.00	0.43
30:21:51:PHE:CD2	30:21:52:LEU:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:6:ALA:HB3	32:41:104:GLU:OE2	2.18	0.43
35:61:75:LEU:HD21	35:61:105:HIS:CG	2.53	0.43
37:48:95:LYS:HD2	37:48:98:ARG:HG3	2.01	0.43
40:78:61:ARG:CB	40:78:61:ARG:HH11	2.32	0.43
43:A8:101:LEU:HD12	43:A8:101:LEU:O	2.17	0.43
1:1G:619:U:N3	4:32:134:ASP:OD1	2.47	0.43
1:1G:718:G:O6	18:9A:74:ARG:NH1	2.51	0.43
1:1G:1027:C:H1'	1:1G:1035:A:H61	1.83	0.43
1:1G:1077:G:N1	1:1G:1081:G:C6	2.86	0.43
1:1G:1188:A:H2'	1:1G:1189:C:O4'	2.17	0.43
1:1G:1245:A:H2'	1:1G:1246:C:C6	2.52	0.43
1:1G:1368:G:H5"	9:82:112:LYS:HB3	1.99	0.43
7:62:113:GLU:OE1	7:62:122:HIS:ND1	2.51	0.43
13:4A:68:GLY:HA2	13:4A:71:ARG:NE	2.32	0.43
14:5A:29:ARG:C	14:5A:31:ARG:H	2.26	0.43
17:8A:45:HIS:CD2	17:8A:47:PRO:HD3	2.53	0.43
19:AA:61:TYR:HE2	19:AA:63:THR:HG23	1.81	0.43
20:BA:49:ALA:HB2	20:BA:92:LEU:HD22	2.00	0.43
23:2L:41:C:O2'	23:2L:42:C:H5'	2.17	0.43
26:14:297:C:N4	26:14:298:G:C6	2.86	0.43
26:14:968:G:H2'	26:14:969:U:C6	2.53	0.43
26:14:1021:A:C2	26:14:1023:U:C2	3.06	0.43
26:14:1187:G:H5"	46:95:81:TYR:HE1	1.79	0.43
26:14:1341:U:OP1	26:14:1397:U:N3	2.50	0.43
26:14:1388:G:H4'	26:14:1525:G:O2'	2.18	0.43
26:14:1582:C:O2'	26:14:1586:A:H8	2.00	0.43
26:14:2295:C:OP1	43:65:10:ARG:NH1	2.48	0.43
26:14:2295:C:N4	43:65:13:ARG:HH22	2.16	0.43
26:14:2815:C:H5'	56:J5:29:THR:HG21	2.00	0.43
32:49:28:VAL:O	32:49:31:VAL:HB	2.19	0.43
33:59:26:VAL:HG13	33:59:27:LYS:N	2.34	0.43
45:85:72:HIS:ND1	45:85:72:HIS:N	2.67	0.43
50:D5:191:VAL:O	50:D5:194:PRO:HD2	2.18	0.43
1:13:373:A:N3	1:13:374:A:C8	2.86	0.43
1:13:1053:G:O5'	1:13:1054:C:H3'	2.18	0.43
1:13:1176:A:N6	1:13:1177:G:C6	2.86	0.43
1:13:1434:A:H2'	1:13:1435:G:O4'	2.18	0.43
1:13:1469:G:H2'	1:13:1470:G:H8	1.82	0.43
2:1E:163:PHE:HA	2:1E:185:ILE:O	2.17	0.43
2:1E:223:ILE:H	2:1E:223:ILE:HG12	1.44	0.43
5:4E:80:ILE:HG23	5:4E:91:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:5E:35:ALA:HA	6:5E:67:MET:HB3	2.00	0.43
12:3I:66:VAL:HG22	12:3I:67:THR:H	1.84	0.43
13:4I:66:LEU:C	13:4I:70:LEU:HB2	2.43	0.43
13:4I:66:LEU:HD23	13:4I:66:LEU:HA	1.56	0.43
24:3K:18:G:H4'	24:3K:19:G:OP1	2.17	0.43
26:1H:302:C:H2'	26:1H:303:U:C6	2.54	0.43
26:1H:900:A:N3	26:1H:900:A:H2'	2.32	0.43
26:1H:984:A:OP1	63:1H:3976:HOH:O	2.21	0.43
26:1H:1093:G:H5"	26:1H:1094:U:OP2	2.19	0.43
26:1H:1207:C:H2'	26:1H:1208:C:H6	1.83	0.43
26:1H:1253:A:N6	63:1H:4035:HOH:O	2.28	0.43
26:1H:1429:G:H2'	26:1H:1430:C:H6	1.80	0.43
26:1H:2006:C:O5'	26:1H:2006:C:H6	2.02	0.43
26:1H:2212:A:H1'	26:1H:2215:G:C4	2.53	0.43
26:1H:2309:A:C6	26:1H:2310:A:N7	2.86	0.43
27:16:91:C:H5"	50:H8:79:ARG:NH2	2.33	0.43
35:61:81:VAL:HG23	35:61:143:SER:O	2.19	0.43
39:68:29:ASN:OD1	39:68:29:ASN:N	2.51	0.43
40:78:90:ARG:HG2	40:78:91:PHE:HD1	1.82	0.43
48:F8:34:ALA:HA	48:F8:38:GLU:OE1	2.18	0.43
48:F8:70:LEU:HD13	48:F8:70:LEU:HA	1.87	0.43
1:1G:12:U:O2'	1:1G:526:C:H4'	2.18	0.43
1:1G:198:G:H2'	1:1G:199:G:C8	2.53	0.43
1:1G:236:G:H2'	1:1G:237:C:O4'	2.18	0.43
1:1G:259:G:H2'	1:1G:260:G:O4'	2.19	0.43
2:12:36:ARG:H	2:12:41:ILE:HD13	1.84	0.43
5:42:47:LYS:HE2	5:42:47:LYS:HB2	1.65	0.43
8:72:21:LYS:O	8:72:63:LEU:HD23	2.18	0.43
8:72:44:PHE:CD1	8:72:80:ILE:HG13	2.52	0.43
8:72:136:GLU:O	8:72:136:GLU:HG3	2.18	0.43
11:2A:77:MET:HE2	11:2A:77:MET:HB2	1.95	0.43
12:3A:6:THR:H	12:3A:6:THR:HG23	1.53	0.43
12:3A:69:TYR:CG	12:3A:90:VAL:HG21	2.53	0.43
13:4A:92:HIS:HE2	13:4A:98:VAL:HG21	1.84	0.43
20:BA:24:LEU:HD13	20:BA:24:LEU:HA	1.59	0.43
20:BA:39:LYS:HB3	20:BA:39:LYS:HE2	1.83	0.43
22:1L:61:U:H5'	22:1L:62:C:H5	1.81	0.43
24:3L:57:C:H1'	26:14:2169:A:C8	2.54	0.43
26:14:76:C:O3'	53:G5:59:ARG:HG3	2.18	0.43
26:14:921:G:C5	26:14:922:U:C4	3.07	0.43
26:14:959:A:C6	26:14:960:A:N1	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1005:C:C2	26:14:1143:A:C5	3.06	0.43
26:14:1420:U:O2'	26:14:1421:G:OP1	2.36	0.43
26:14:2612:C:OP2	63:14:3903:HOH:O	2.21	0.43
26:14:2656:U:H3	26:14:2665:A:H2	1.67	0.43
26:14:2695:C:H2'	26:14:2696:U:H6	1.84	0.43
26:14:2864:G:OP1	44:75:119:LYS:HD3	2.18	0.43
28:79:57:ASN:ND2	28:79:59:ARG:HD2	2.33	0.43
29:19:206:LEU:HD23	29:19:206:LEU:HA	1.69	0.43
30:29:27:LEU:HA	30:29:180:ASN:O	2.18	0.43
30:29:49:LEU:O	30:29:78:LEU:HA	2.18	0.43
30:29:182:LEU:O	30:29:183:LEU:HD12	2.19	0.43
31:39:82:ILE:H	31:39:82:ILE:HG13	1.26	0.43
32:49:6:ALA:O	32:49:9:ARG:N	2.51	0.43
32:49:112:PRO:HA	32:49:117:PHE:CD2	2.54	0.43
33:59:11:VAL:HB	33:59:13:LYS:CG	2.48	0.43
40:35:29:LYS:CG	40:35:30:THR:N	2.81	0.43
40:35:57:THR:C	40:35:59:LEU:N	2.76	0.43
40:35:57:THR:HB	40:35:60:MET:HB2	1.99	0.43
41:45:35:VAL:HA	41:45:101:ARG:O	2.18	0.43
43:65:10:ARG:O	43:65:14:VAL:HG23	2.18	0.43
48:B5:5:TYR:CE2	53:G5:30:ARG:HB2	2.53	0.43
49:C5:82:PRO:HB2	49:C5:83:THR:O	2.18	0.43
1:13:192:U:H1'	20:BI:103:GLY:O	2.19	0.43
1:13:232:G:C5	1:13:233:C:C5	3.06	0.43
1:13:255:G:H1'	17:8I:16:GLN:OE1	2.19	0.43
1:13:868:C:H2'	1:13:869:G:O4'	2.18	0.43
1:13:1011:G:H2'	1:13:1012:U:O4'	2.18	0.43
7:6E:16:LEU:HD13	9:8E:44:VAL:HG22	2.00	0.43
12:3I:85:ILE:HG23	12:3I:98:TYR:HB3	1.99	0.43
18:9I:38:GLU:HA	18:9I:41:LYS:HE3	2.00	0.43
26:1H:402:A:N6	26:1H:403:U:O4	2.51	0.43
26:1H:556:G:H2'	26:1H:557:U:C6	2.53	0.43
26:1H:1142(A):A:O2'	26:1H:1143:A:H5"	2.18	0.43
26:1H:1203:G:OP2	26:1H:1204:A:H2'	2.18	0.43
26:1H:1304:C:O2'	26:1H:1305:C:H5'	2.19	0.43
26:1H:1359:A:N6	26:1H:1372:U:H3	2.16	0.43
26:1H:1373:A:H2'	26:1H:1374:G:O4'	2.19	0.43
26:1H:1387:C:O2	26:1H:1388:G:C8	2.71	0.43
26:1H:1435:G:O5'	26:1H:1435:G:H8	2.01	0.43
26:1H:1532:C:O2	26:1H:1540:G:N2	2.52	0.43
26:1H:1588:C:H2'	26:1H:1589:C:H6	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1639:U:H5”	63:1H:4014:HOH:O	2.18	0.43
26:1H:2001:A:H2’	26:1H:2002:G:O4’	2.18	0.43
26:1H:2450:A:C2	26:1H:2451:A:C4	3.06	0.43
26:1H:2462:U:H1’	26:1H:2491:U:O4	2.18	0.43
26:1H:2505:G:O6	26:1H:2576:G:H2’	2.19	0.43
29:11:232:PRO:HB2	29:11:247:ALA:HB3	1.99	0.43
30:21:78:LEU:O	30:21:79:ARG:HB2	2.19	0.43
32:41:45:GLU:H	32:41:45:GLU:HG2	1.48	0.43
36:38:32:LEU:HB2	36:38:33:PRO:HD3	1.99	0.43
37:48:27:LEU:HD12	37:48:34:ILE:HD13	1.99	0.43
49:G8:46:LYS:HG2	49:G8:60:PHE:CD2	2.53	0.43
50:H8:141:VAL:HG12	50:H8:143:GLY:H	1.83	0.43
51:I8:37:LEU:HD21	51:I8:61:ALA:N	2.32	0.43
54:L8:26:LEU:HD21	54:L8:46:ASN:HB3	1.99	0.43
1:1G:332:G:C2	1:1G:333:G:C8	3.06	0.43
1:1G:1130:A:H1’	1:1G:1146:A:C2	2.53	0.43
1:1G:1281:U:H3’	1:1G:1282:C:H5	1.79	0.43
1:1G:1533:C:HO2’	1:1G:1534:A:P	2.39	0.43
2:12:16:HIS:HB3	2:12:210:SER:OG	2.18	0.43
2:12:32:ILE:HD12	2:12:41:ILE:O	2.18	0.43
2:12:118:LEU:O	2:12:122:PHE:N	2.51	0.43
3:22:85:ARG:HD2	3:22:85:ARG:H	1.83	0.43
4:32:101:LEU:HD23	4:32:121:VAL:CG1	2.48	0.43
6:52:21:LEU:O	6:52:24:GLU:HB2	2.18	0.43
8:72:11:THR:HG23	8:72:14:ARG:HH12	1.81	0.43
8:72:64:LYS:HG2	8:72:79:VAL:HG21	2.00	0.43
10:1A:30:SER:OG	10:1A:81:THR:HA	2.18	0.43
12:3A:27:LEU:HD21	12:3A:30:ALA:HB3	2.01	0.43
15:6A:76:GLU:OE2	15:6A:79:ARG:NH1	2.51	0.43
24:3L:49:C:H6	24:3L:50:G:OP1	2.00	0.43
26:14:10:G:N3	26:14:2801:A:H5’	2.33	0.43
26:14:1335:U:C2	26:14:1336:A:C8	3.06	0.43
26:14:1474:C:H5’	26:14:1475:G:OP2	2.18	0.43
26:14:2064:C:H2’	26:14:2065:C:C6	2.53	0.43
26:14:2820:A:O5’	42:55:4:LEU:HD23	2.18	0.43
26:14:2880:C:O2	42:55:93:GLY:N	2.45	0.43
28:79:46:LYS:HG2	28:79:169:GLY:O	2.18	0.43
41:45:43:THR:CB	41:45:45:GLN:HG2	2.47	0.43
43:65:34:HIS:CD2	43:65:54:LEU:HD21	2.53	0.43
43:65:103:GLU:O	43:65:106:ARG:HD3	2.19	0.43
49:C5:17:SER:O	49:C5:21:LYS:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:32:A:C2	1:13:33:A:C4	3.07	0.43
1:13:429:U:H1'	1:13:430:A:H5"	1.99	0.43
1:13:658:G:C6	1:13:659:U:C4	3.06	0.43
1:13:926:G:C6	1:13:1505:G:C5	3.07	0.43
1:13:1104:G:H4'	2:1E:111:ARG:NH1	2.34	0.43
1:13:1128:C:C5	1:13:1139:G:C2	3.07	0.43
3:2E:131:ARG:HH22	3:2E:135:LYS:NZ	2.17	0.43
12:3I:84:LEU:HB2	12:3I:105:TYR:HE2	1.83	0.43
17:8I:18:THR:OG1	17:8I:69:LYS:NZ	2.38	0.43
22:1K:15:G:N2	22:1K:49:C:H42	2.16	0.43
24:3K:68:G:C4	24:3K:69:G:C8	3.07	0.43
26:1H:141:A:H8	26:1H:1595:G:H21	1.62	0.43
26:1H:142:G:H2'	26:1H:143:C:H6	1.82	0.43
26:1H:155:C:H42	26:1H:171:G:H1	1.65	0.43
26:1H:612:G:O2'	26:1H:616:A:N1	2.45	0.43
26:1H:817:C:H4'	26:1H:932:G:C5	2.54	0.43
26:1H:858:U:O2	26:1H:2268:A:H2'	2.19	0.43
26:1H:1070:A:C8	26:1H:1096:A:H2'	2.52	0.43
26:1H:1239:G:H2'	26:1H:1240:U:O4'	2.18	0.43
26:1H:1404:C:O2'	26:1H:1405:U:H5'	2.18	0.43
26:1H:1778:U:P	63:1H:4301:HOH:O	2.76	0.43
26:1H:2065:C:H2'	26:1H:2066:C:H6	1.84	0.43
26:1H:2136:C:P	26:1H:2160:G:H4'	2.59	0.43
26:1H:2441:C:H1'	63:1H:4259:HOH:O	2.18	0.43
26:1H:2488:A:H2'	26:1H:2489:G:O4'	2.18	0.43
26:1H:2852:G:H2'	26:1H:2853:C:O4'	2.19	0.43
27:16:18:G:H1	27:16:65:C:H42	1.65	0.43
28:71:211:SER:HB2	28:71:223:ARG:NH2	2.33	0.43
31:31:129:PHE:HA	31:31:142:TRP:NE1	2.34	0.43
44:B8:57:PHE:CE1	44:B8:79:HIS:HB2	2.53	0.43
44:B8:107:ASP:OD1	44:B8:109:GLU:HB2	2.18	0.43
1:1G:376:G:O3'	16:7A:5:ARG:NH1	2.38	0.43
1:1G:500:G:H2'	1:1G:501:C:C6	2.53	0.43
1:1G:579:G:C6	1:1G:580:U:C4	3.07	0.43
1:1G:669:U:H2'	1:1G:670:G:C8	2.54	0.43
1:1G:676:A:H1'	11:2A:115:PRO:HB3	2.00	0.43
1:1G:690:G:H22	11:2A:55:LYS:HE2	1.83	0.43
1:1G:828:A:C2	1:1G:859:A:O4'	2.72	0.43
1:1G:1057:G:C6	1:1G:1204:A:C2	3.07	0.43
1:1G:1103:C:N3	1:1G:1104:G:C8	2.85	0.43
1:1G:1129:C:H1'	1:1G:1132:C:N4	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1181:G:C2	1:1G:1182:G:H1'	2.54	0.43
1:1G:1378:C:H3'	1:1G:1379:G:C5'	2.47	0.43
2:12:114:ARG:HA	2:12:117:GLU:HG3	2.00	0.43
2:12:217:ARG:HA	2:12:220:ASP:HB2	1.99	0.43
3:22:148:GLY:HA3	3:22:172:ARG:O	2.18	0.43
4:32:120:LEU:HD13	4:32:120:LEU:HA	1.47	0.43
7:62:15:ASP:HB3	7:62:20:ASP:H	1.82	0.43
12:3A:24:VAL:C	12:3A:26:ALA:N	2.76	0.43
14:5A:27:CYS:O	14:5A:29:ARG:HG2	2.17	0.43
17:8A:17:LYS:HG2	17:8A:47:PRO:HA	2.01	0.43
17:8A:63:ARG:HG2	17:8A:64:PRO:N	2.33	0.43
26:14:182:A:H2'	26:14:183:C:O4'	2.18	0.43
26:14:792:G:N3	26:14:2072:G:O2'	2.44	0.43
26:14:1036:G:H8	26:14:1036:G:O5'	2.02	0.43
26:14:1048:A:N6	33:59:2:SER:HB2	2.33	0.43
26:14:1160:G:H2'	26:14:1160:G:N3	2.34	0.43
26:14:1728:G:N1	26:14:1730:U:OP2	2.51	0.43
26:14:2321:G:N3	26:14:2321:G:H2'	2.33	0.43
26:14:2818:G:OP2	42:55:42:LYS:NZ	2.52	0.43
26:14:2846:G:H2'	26:14:2847:U:O4'	2.19	0.43
28:79:10:LEU:HD12	28:79:32:LEU:HD23	1.99	0.43
28:79:11:LEU:HD12	28:79:220:PRO:HB2	2.00	0.43
30:29:87:GLU:C	30:29:89:ASP:N	2.77	0.43
33:59:93:GLY:HA2	33:59:95:ARG:HH22	1.84	0.43
39:25:13:ASN:O	39:25:15:GLY:N	2.51	0.43
40:35:111:ARG:HB3	40:35:128:HIS:CG	2.53	0.43
47:A5:39:THR:HG22	47:A5:44:ALA:HB2	2.00	0.43
50:D5:62:PRO:O	50:D5:63:ASP:HB3	2.19	0.43
52:F5:87:PRO:O	52:F5:88:LYS:C	2.62	0.43
53:G5:23:LYS:HA	53:G5:26:ARG:HH12	1.83	0.43
54:H5:30:ARG:HG2	54:H5:33:GLN:HB3	2.01	0.43
1:13:181:G:N2	1:13:195:A:C4	2.87	0.43
1:13:198:G:C2	1:13:199:G:C8	3.06	0.43
4:3E:173:TRP:HB2	4:3E:187:ARG:HG3	2.00	0.43
4:3E:202:LEU:HD23	4:3E:202:LEU:HA	1.78	0.43
9:8E:127:LYS:O	9:8E:127:LYS:HG2	2.18	0.43
13:4I:14:ARG:HB3	13:4I:17:VAL:HG12	1.99	0.43
16:7I:20:VAL:CG1	16:7I:22:THR:HB	2.48	0.43
26:1H:205:G:P	63:1H:3986:HOH:O	2.77	0.43
26:1H:848:G:H2'	26:1H:849:A:H8	1.81	0.43
26:1H:1394:U:H4'	26:1H:1603:A:H4'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1526:G:C6	26:1H:1527:G:C2	3.06	0.43
26:1H:2285:C:N4	57:O8:27:LYS:HE2	2.33	0.43
26:1H:2290:G:H2'	26:1H:2291:U:O4'	2.19	0.43
26:1H:2317:C:H2'	26:1H:2318:G:O4'	2.18	0.43
26:1H:2740:A:H2'	26:1H:2741:A:C8	2.53	0.43
27:16:3:C:H2'	27:16:4:C:C6	2.53	0.43
27:16:29:A:H2'	27:16:30:C:C6	2.53	0.43
29:11:132:PRO:HD3	29:11:190:TYR:CZ	2.54	0.43
30:21:2:LYS:HE3	30:21:200:GLU:OE1	2.19	0.43
30:21:197:ILE:HD11	30:21:199:ARG:NE	2.34	0.43
33:51:54:ARG:HG3	33:51:56:SER:O	2.18	0.43
35:61:129:THR:HG22	35:61:137:PRO:HB3	1.99	0.43
36:38:102:LYS:HA	36:38:102:LYS:HD2	1.66	0.43
37:48:52:ILE:HG13	37:48:76:TYR:HB2	2.00	0.43
38:58:103:VAL:O	38:58:106:MET:N	2.40	0.43
41:88:115:MET:HE2	41:88:115:MET:HB3	1.84	0.43
50:H8:5:LEU:HD21	50:H8:43:GLU:HB3	1.99	0.43
51:I8:49:LYS:O	51:I8:50:ASN:HB2	2.19	0.43
52:J8:58:ILE:HG13	52:J8:87:PRO:HD3	2.01	0.43
53:K8:15:LYS:H	53:K8:15:LYS:HZ3	1.67	0.43
54:L8:10:LYS:HB3	54:L8:53:LEU:HD23	2.01	0.43
1:1G:6:G:O2'	1:1G:7:G:O5'	2.31	0.43
1:1G:147:G:H21	1:1G:148:G:H1'	1.83	0.43
1:1G:254:G:OP1	17:8A:67:LYS:O	2.36	0.43
1:1G:862:C:O2'	1:1G:874:G:H5"	2.18	0.43
1:1G:1071:C:H2'	1:1G:1072:G:H8	1.84	0.43
1:1G:1113:C:H2'	1:1G:1114:C:H6	1.82	0.43
1:1G:1228:C:H4'	13:4A:116:THR:HA	2.00	0.43
5:42:102:ALA:HB2	5:42:120:THR:OG1	2.18	0.43
22:1L:6:C:N4	22:1L:68:G:H1	2.12	0.43
24:3L:9:A:C2	24:3L:47:G:C2	3.07	0.43
26:14:61:G:H5'	53:G5:50:ILE:HD13	2.01	0.43
26:14:724:U:H2'	26:14:725:G:O4'	2.18	0.43
26:14:780:G:C2	26:14:782:A:C2	3.06	0.43
26:14:1011:G:N3	26:14:1151:G:C2	2.86	0.43
26:14:1041:C:H2'	26:14:1042:G:C8	2.54	0.43
26:14:1131:G:C2	26:14:1132:A:C5	3.07	0.43
26:14:1152:C:H4'	45:85:77:SER:HA	2.00	0.43
26:14:1169:G:H8	26:14:1169:G:O5'	2.02	0.43
26:14:1239:G:H2'	26:14:1240:U:O4'	2.19	0.43
26:14:1636:C:H2'	26:14:1637:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1833:U:O2'	26:14:1969:A:N1	2.38	0.43
26:14:2037:G:H2'	26:14:2038:G:H8	1.80	0.43
26:14:2365:G:H4'	51:E5:60:PHE:CZ	2.53	0.43
26:14:2655:G:N2	26:14:2665:A:OP2	2.50	0.43
27:1J:55:U:HO2'	32:49:29:TRP:CD1	2.36	0.43
29:19:238:GLY:O	29:19:239:ARG:C	2.59	0.43
33:59:6:ARG:HH21	33:59:54:ARG:CZ	2.31	0.43
35:69:8:PRO:HB3	35:69:15:VAL:HG22	1.99	0.43
35:69:123:LEU:HA	35:69:142:VAL:CG2	2.48	0.43
35:69:131:LYS:HA	35:69:135:GLU:HG2	1.99	0.43
41:45:57:HIS:ND1	41:45:117:ALA:HB2	2.33	0.43
46:95:40:LEU:HA	46:95:46:VAL:O	2.19	0.43
47:A5:62:HIS:O	47:A5:63:ASP:C	2.61	0.43
47:A5:79:GLY:HA3	47:A5:100:THR:HG22	2.00	0.43
48:B5:57:LEU:CD2	48:B5:78:LYS:HB3	2.48	0.43
50:D5:17:ALA:O	50:D5:20:ARG:HB2	2.18	0.43
50:D5:126:VAL:HG12	50:D5:163:LEU:HA	2.00	0.43
1:13:57:G:H2'	1:13:58:C:H6	1.82	0.43
1:13:209:U:O2'	1:13:216:G:C2	2.72	0.43
1:13:758:G:O6	63:13:1959:HOH:O	2.18	0.43
1:13:1443:G:N7	44:B8:118:ARG:HG3	2.34	0.43
2:1E:70:PHE:HB2	2:1E:92:TYR:CB	2.49	0.43
2:1E:112:VAL:HG22	2:1E:153:ARG:HA	2.01	0.43
4:3E:65:ARG:HD2	4:3E:70:ILE:O	2.18	0.43
6:5E:16:GLN:CD	6:5E:16:GLN:H	2.27	0.43
8:7E:87:SER:OG	8:7E:93:VAL:N	2.44	0.43
22:1K:38:2MA:HM21	25:4K:19:C:C2	2.54	0.43
24:3K:73:C:C3'	24:3K:74:A:H5"	2.49	0.43
26:1H:286:C:H2'	26:1H:287:C:C6	2.54	0.43
26:1H:300:A:N3	26:1H:319:C:H1'	2.34	0.43
26:1H:492:A:H2'	26:1H:493:G:O4'	2.19	0.43
26:1H:725:G:C6	26:1H:726:G:N1	2.87	0.43
26:1H:868:U:C4	26:1H:869:G:N7	2.86	0.43
26:1H:932:G:H4'	26:1H:933:A:O5'	2.19	0.43
26:1H:1283:G:OP2	63:1H:3977:HOH:O	2.21	0.43
26:1H:1323:U:H2'	26:1H:1324:G:H5'	2.00	0.43
26:1H:2228:G:OP2	29:11:263:ARG:NH2	2.51	0.43
26:1H:2439:A:H4'	26:1H:2440:C:O5'	2.19	0.43
26:1H:2636:U:H2'	26:1H:2637:U:H6	1.83	0.43
28:71:32:LEU:HB3	28:71:220:PRO:HD2	2.01	0.43
32:41:52:ILE:HD13	32:41:52:ILE:HA	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:38:117:LEU:HD22	34:28:24:ILE:HD11	2.01	0.43
41:88:17:LEU:HB3	41:88:39:PRO:HB2	2.01	0.43
54:L8:7:LYS:HD2	54:L8:34:GLU:OE2	2.19	0.43
1:1G:434:U:H2'	1:1G:435:C:C6	2.54	0.43
1:1G:519:C:H2'	1:1G:520:A:O4'	2.18	0.43
1:1G:994:A:H2'	1:1G:994:A:N3	2.33	0.43
1:1G:1328:C:O2'	13:4A:29:ARG:NE	2.44	0.43
1:1G:1466:C:H2'	1:1G:1467:G:O4'	2.19	0.43
2:12:105:PHE:C	2:12:107:THR:H	2.25	0.43
3:22:152:ILE:HG12	3:22:167:TRP:HB2	2.01	0.43
12:3A:82:VAL:N	12:3A:106:ASP:OD2	2.48	0.43
20:BA:26:ASN:O	20:BA:30:LYS:HB2	2.19	0.43
22:1L:65:C:H2'	22:1L:66:C:H6	1.84	0.43
26:14:92:G:H2'	26:14:93:C:C6	2.54	0.43
26:14:574:C:P	63:14:3792:HOH:O	2.72	0.43
26:14:842:G:N2	26:14:937:U:O2	2.51	0.43
26:14:1259:G:H2'	26:14:1260:G:C8	2.54	0.43
26:14:1913:A:H4'	26:14:1914:C:H5"	2.00	0.43
26:14:2115:G:H1'	26:14:2171:A:H61	1.84	0.43
26:14:2124:G:N2	26:14:2175:C:O2	2.52	0.43
26:14:2567:G:H2'	26:14:2568:C:C6	2.54	0.43
26:14:2582:G:H3'	63:14:3727:HOH:O	2.18	0.43
26:14:2632:A:O2'	26:14:2811:G:O2'	2.32	0.43
26:14:2709:G:H1'	63:14:4700:HOH:O	2.17	0.43
26:14:2791:C:OP1	26:14:2893:G:N2	2.49	0.43
1:13:255:G:C5	1:13:256:U:C5	3.07	0.43
1:13:328:C:H4'	1:13:329:A:C5'	2.49	0.43
1:13:737:A:O2'	1:13:738:C:H5'	2.18	0.43
2:1E:20:GLU:HG3	2:1E:191:ASP:N	2.33	0.43
6:5E:23:LYS:HB2	6:5E:23:LYS:HZ3	1.83	0.43
8:7E:118:VAL:C	8:7E:119:LEU:HD23	2.44	0.43
19:AI:5:LEU:CB	19:AI:10:PHE:HE1	2.31	0.43
23:2K:10:G:N2	23:2K:27:G:H1'	2.33	0.43
23:2K:48:U:HO2'	23:2K:49:C:P	2.38	0.43
26:1H:828:U:H4'	26:1H:831:G:N1	2.34	0.43
26:1H:880:G:C2	26:1H:881:G:C8	3.07	0.43
26:1H:1014:U:H2'	26:1H:1015:G:C8	2.54	0.43
26:1H:1021:A:H8	26:1H:1022:G:H5"	1.83	0.43
26:1H:1257:C:O2'	31:31:83:PHE:HA	2.18	0.43
26:1H:1516:U:H2'	26:1H:1517:G:H8	1.84	0.43
26:1H:1639:U:OP1	63:1H:3968:HOH:O	2.20	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2356:C:H2'	26:1H:2357:U:O4'	2.19	0.43
26:1H:2479:G:O5'	26:1H:2479:G:H8	2.02	0.43
26:1H:2577:A:OP2	56:N8:2:ALA:N	2.52	0.43
26:1H:2854:G:H2'	26:1H:2855:C:C6	2.54	0.43
29:11:182:LEU:O	29:11:271:ILE:HG12	2.19	0.43
32:41:51:ARG:HB2	32:41:51:ARG:NH1	2.34	0.43
36:38:16:ASN:H	36:38:19:ARG:CB	2.31	0.43
37:48:51:ALA:HB3	37:48:76:TYR:CD1	2.50	0.43
41:88:118:LEU:HA	41:88:118:LEU:HD23	1.76	0.43
44:B8:16:ARG:HB2	44:B8:18:ASP:OD1	2.19	0.43
44:B8:87:ASP:OD1	44:B8:87:ASP:N	2.50	0.43
45:C8:97:ASP:C	45:C8:97:ASP:OD1	2.61	0.43
46:D8:37:VAL:HB	46:D8:51:VAL:HG23	2.01	0.43
52:J8:15:ALA:O	52:J8:40:ARG:HG3	2.19	0.43
1:1G:109:A:N7	1:1G:326:G:H2'	2.33	0.43
1:1G:448:A:H2'	1:1G:449:C:O2	2.18	0.43
1:1G:574:A:H5"	1:1G:575:G:OP2	2.18	0.43
3:22:18:TRP:HE1	14:5A:56:VAL:H	1.65	0.43
4:32:25:ARG:NH2	4:32:30:LYS:HB2	2.34	0.43
5:42:80:ILE:HG22	8:72:104:ARG:NH1	2.34	0.43
8:72:54:ASP:HB2	8:72:56:LYS:HD3	2.01	0.43
8:72:72:PRO:O	8:72:73:ASP:HB3	2.18	0.43
8:72:86:ILE:HD11	8:72:136:GLU:HG2	2.00	0.43
9:82:112:LYS:HD3	9:82:113:LYS:N	2.33	0.43
10:1A:40:LEU:HB3	10:1A:69:ASN:HB3	2.01	0.43
20:BA:89:ARG:HE	20:BA:104:LEU:HD23	1.83	0.43
22:1L:6:C:O2'	22:1L:7:G:OP2	2.28	0.43
26:14:53:A:OP2	63:14:3898:HOH:O	2.21	0.43
26:14:108:U:H2'	26:14:109:G:H8	1.83	0.43
26:14:1248:G:OP1	45:85:2:PRO:HD2	2.19	0.43
26:14:1818:U:O4	29:19:154:LYS:HD3	2.19	0.43
26:14:2146:C:H4'	26:14:2147:G:C8	2.54	0.43
27:1J:30:C:H2'	27:1J:31:C:H5'	2.01	0.43
32:49:99:MET:O	32:49:103:LEU:HG	2.17	0.43
33:59:94:TYR:CZ	33:59:160:LYS:HD2	2.54	0.43
38:15:62:VAL:CG2	38:15:66:LYS:HD2	2.47	0.43
38:15:111:PRO:HA	38:15:114:ARG:CZ	2.49	0.43
39:25:119:PRO:HB2	44:75:68:TYR:CZ	2.54	0.43
48:B5:9:LEU:CA	53:G5:36:ARG:HH21	2.28	0.43
50:D5:59:LEU:C	50:D5:61:LEU:H	2.21	0.43
1:13:245:C:C2	1:13:284:G:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:302:G:C6	1:13:303:A:C5	3.07	0.43
1:13:413:G:H21	1:13:428:G:H1'	1.84	0.43
1:13:452:A:H1'	16:7I:72:ARG:NH1	2.33	0.43
1:13:745:C:H2'	1:13:746:A:C8	2.54	0.43
1:13:1028(A):C:N4	1:13:1032(A):G:H1	2.17	0.43
2:1E:93:VAL:HG11	2:1E:101:MET:HE1	2.00	0.43
8:7E:8:ASP:OD1	8:7E:12:ARG:HD2	2.17	0.43
10:1I:5:ARG:HH21	10:1I:99:LYS:HD2	1.84	0.43
12:3I:123:LYS:H	12:3I:123:LYS:HG2	1.58	0.43
13:4I:60:VAL:HG13	13:4I:64:TRP:HE1	1.84	0.43
17:8I:10:VAL:HG13	17:8I:19:VAL:HB	2.01	0.43
23:2K:62:C:H2'	23:2K:63:C:C6	2.49	0.43
26:1H:996:A:O3'	45:C8:92:ARG:HG2	2.18	0.43
26:1H:1026:U:O2	26:1H:1027:A:H3'	2.19	0.43
26:1H:2070:G:C2	26:1H:2442:C:C2	3.07	0.43
26:1H:2471:C:O2	26:1H:2479:G:N2	2.41	0.43
26:1H:2695:C:H2'	26:1H:2696:U:H6	1.84	0.43
29:11:98:VAL:C	29:11:100:GLY:N	2.77	0.43
30:21:67:PHE:O	30:21:69:LYS:N	2.49	0.43
36:38:9:LEU:HD13	36:38:10:LEU:HD13	2.01	0.43
37:48:143:GLU:O	37:48:145:LYS:N	2.52	0.43
42:98:60:LEU:O	42:98:64:ARG:HG3	2.19	0.43
42:98:96:ARG:HH22	42:98:117:VAL:HG23	1.84	0.43
44:B8:90:GLN:HG3	44:B8:91:ARG:N	2.33	0.43
50:H8:59:LEU:HD12	50:H8:60:GLU:N	2.34	0.43
51:I8:41:ARG:NE	51:I8:41:ARG:HA	2.33	0.43
53:K8:18:PRO:HA	53:K8:21:LEU:HD12	2.01	0.43
56:N8:49:CYS:SG	56:N8:49:CYS:O	2.76	0.43
1:1G:45:U:H2'	1:1G:46:G:H8	1.84	0.43
1:1G:238:G:C6	1:1G:239:U:C4	3.07	0.43
1:1G:630:G:O2'	1:1G:631:G:H5'	2.19	0.43
1:1G:758:G:H5'	1:1G:880:C:H1'	2.01	0.43
1:1G:958:A:H5"	1:1G:959:A:OP2	2.19	0.43
1:1G:991:U:O4	1:1G:1212:U:O2'	2.31	0.43
1:1G:1333:A:C8	1:1G:1334:G:C8	3.06	0.43
1:1G:1423:G:P	39:25:49:ARG:HH22	2.40	0.43
6:52:35:ALA:HB1	6:52:65:VAL:HG11	2.00	0.43
8:72:110:ALA:O	8:72:121:ASP:N	2.52	0.43
18:9A:37:VAL:HB	18:9A:79:LEU:HD21	2.01	0.43
23:2L:17:C:H3'	23:2L:18:C:H2'	2.01	0.43
23:2L:24:C:C2	23:2L:25:U:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:271(A):C:H1'	26:14:272:G:H1'	2.01	0.43
26:14:341:G:N1	26:14:342:G:C5	2.87	0.43
26:14:341:G:C6	26:14:342:G:C5	3.07	0.43
26:14:455:C:N3	26:14:472:A:H2'	2.34	0.43
26:14:1132:A:H2'	26:14:1133:U:C6	2.54	0.43
26:14:1182:A:H2'	26:14:1183:G:O4'	2.19	0.43
26:14:2267:A:H3'	63:14:3746:HOH:O	2.18	0.43
26:14:2335:A:C8	26:14:2337:G:N7	2.87	0.43
26:14:2853:C:H2'	26:14:2854:G:C8	2.54	0.43
27:1J:10:C:C4	27:1J:11:C:C5	3.07	0.43
27:1J:91:C:OP1	41:45:19:GLY:HA2	2.18	0.43
31:39:174:VAL:HG11	31:39:188:ARG:HH22	1.84	0.43
38:15:30:ILE:HG23	38:15:52:VAL:HG11	2.01	0.43
38:15:128:HIS:CD2	38:15:128:HIS:H	2.36	0.43
43:65:21:THR:HB	43:65:23:ARG:CG	2.46	0.43
46:95:33:VAL:HG13	46:95:35:LEU:HD22	2.01	0.43
49:C5:97:ARG:CZ	49:C5:106:LEU:HG	2.49	0.43
56:J5:46:CYS:SG	56:J5:48:GLU:HG2	2.58	0.43
1:13:25:C:H2'	1:13:26:A:C8	2.54	0.42
1:13:201:C:N4	1:13:209:U:H1'	2.33	0.42
1:13:540:G:H2'	1:13:541:G:O4'	2.19	0.42
1:13:1032(B):G:N3	1:13:1033:G:H1'	2.34	0.42
2:1E:11:LEU:C	2:1E:13:ALA:N	2.77	0.42
2:1E:11:LEU:HD12	2:1E:11:LEU:HA	1.72	0.42
3:2E:23:TYR:HA	10:1I:11:PHE:CE2	2.54	0.42
6:5E:27:GLN:HA	6:5E:30:LEU:HD13	2.00	0.42
12:3I:5:PRO:HG2	12:3I:10:LEU:CD1	2.48	0.42
13:4I:18:ALA:HA	13:4I:21:TYR:HD2	1.84	0.42
20:BI:64:ASP:HA	20:BI:67:ALA:HB3	2.00	0.42
26:1H:191:A:H2'	26:1H:192:C:C6	2.54	0.42
26:1H:607:U:N3	26:1H:621:A:C2	2.76	0.42
26:1H:950:G:C5	26:1H:951:C:C4	3.07	0.42
26:1H:986:C:C2'	26:1H:987:G:H5'	2.49	0.42
26:1H:2212:A:H1'	26:1H:2215:G:C5	2.54	0.42
26:1H:2280:G:H2'	26:1H:2281:C:H5'	2.00	0.42
26:1H:2824:C:H2'	26:1H:2825:C:O4'	2.19	0.42
30:21:34:VAL:HG22	30:21:48:GLN:HB3	2.01	0.42
39:68:112:MET:HE2	39:68:112:MET:HB3	1.66	0.42
40:78:15:ARG:HH12	40:78:17:LYS:CD	2.30	0.42
43:A8:89:ARG:O	43:A8:90:GLY:C	2.62	0.42
45:C8:57:PHE:O	45:C8:58:ARG:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:F8:11:PRO:HG2	48:F8:13:LEU:HD21	2.01	0.42
50:H8:131:ARG:HE	50:H8:131:ARG:HB2	1.41	0.42
53:K8:8:LYS:HD2	53:K8:8:LYS:HA	1.86	0.42
1:1G:44:G:H2'	1:1G:45:U:O4'	2.18	0.42
1:1G:749:C:H2'	1:1G:750:G:H8	1.84	0.42
1:1G:1137:C:O2	1:1G:1138:G:N2	2.51	0.42
1:1G:1258:G:H2'	1:1G:1259:C:C6	2.54	0.42
2:12:22:LYS:NZ	2:12:22:LYS:H	2.16	0.42
11:2A:31:THR:HB	11:2A:42:TRP:HB3	2.01	0.42
19:AA:11:VAL:HG11	19:AA:16:LEU:HD22	1.99	0.42
20:BA:72:LEU:HD21	20:BA:80:ARG:HG3	2.00	0.42
23:2L:41:C:H2'	23:2L:42:C:C6	2.47	0.42
26:14:7:G:H4'	38:15:13:TRP:HH2	1.84	0.42
26:14:240:G:H1'	26:14:257:A:H61	1.83	0.42
26:14:990:A:N6	26:14:1186:G:H1'	2.34	0.42
26:14:1142(A):A:H4'	38:15:25:ARG:HH22	1.84	0.42
26:14:1482:U:H3	26:14:1512:G:H1	1.67	0.42
26:14:1797:C:O2'	29:19:259:THR:OG1	2.35	0.42
26:14:1802:A:N1	26:14:1822:G:H1'	2.34	0.42
26:14:2156:G:N7	26:14:2157:G:N2	2.67	0.42
26:14:2163:C:O2	26:14:2163:C:H2'	2.17	0.42
26:14:2165:G:H3'	26:14:2166:G:H5'	2.01	0.42
26:14:2432:A:H2'	26:14:2433:A:C8	2.54	0.42
26:14:2895:U:C5	26:14:2896:C:H5	2.37	0.42
29:19:183:ARG:HG2	29:19:184:LYS:O	2.19	0.42
30:29:117:MET:HA	30:29:122:PHE:N	2.34	0.42
32:49:82:LEU:HD22	32:49:82:LEU:HA	1.86	0.42
32:49:170:ARG:HA	32:49:170:ARG:HD2	1.89	0.42
41:45:103:MET:HE1	41:45:127:ILE:HD11	2.00	0.42
50:D5:29:TYR:CE2	50:D5:87:ASP:HB2	2.53	0.42
50:D5:166:SER:O	50:D5:169:GLU:HB2	2.18	0.42
1:13:108:G:P	1:13:326:G:H22	2.42	0.42
1:13:265:G:H5'	17:8I:64:PRO:O	2.18	0.42
1:13:877:C:H5"	8:7E:88:LYS:HD3	2.01	0.42
1:13:994:A:N7	1:13:1216:G:H4'	2.33	0.42
1:13:1002:G:H2'	1:13:1003:G:O4'	2.19	0.42
1:13:1469:G:H2'	1:13:1470:G:C8	2.54	0.42
3:2E:111:LEU:HG	3:2E:144:SER:HB3	2.01	0.42
12:3I:10:LEU:HB3	17:8I:32:TYR:CE2	2.54	0.42
13:4I:54:VAL:HG13	13:4I:57:ARG:NH2	2.34	0.42
14:5I:9:LYS:HE2	14:5I:9:LYS:HB2	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8I:68:ARG:HG3	17:8I:68:ARG:O	2.19	0.42
17:8I:70:ARG:C	17:8I:71:PHE:HD1	2.28	0.42
26:1H:271:G:H1	26:1H:366:C:H42	1.66	0.42
26:1H:394:A:O2'	26:1H:395:U:H5'	2.19	0.42
26:1H:524:U:H2'	26:1H:525:U:C6	2.54	0.42
26:1H:591:C:N4	63:1H:4298:HOH:O	2.51	0.42
26:1H:654(O):G:C8	26:1H:654(P):G:N2	2.87	0.42
26:1H:957:A:OP1	41:88:77:LYS:HB2	2.18	0.42
26:1H:1153:C:N4	26:1H:1154:G:C6	2.87	0.42
26:1H:1359:A:N3	26:1H:1359:A:O4'	2.52	0.42
26:1H:1378:A:OP1	58:P8:10:ARG:NH2	2.52	0.42
26:1H:1396:U:O2	26:1H:1396:U:H2'	2.19	0.42
26:1H:1624:G:H2'	26:1H:1625:C:H6	1.84	0.42
26:1H:1753:G:C2	26:1H:1756:G:C2	3.07	0.42
26:1H:2028:U:H2'	26:1H:2029:G:O4'	2.19	0.42
26:1H:2886:G:O2'	56:N8:31:VAL:HG22	2.19	0.42
27:16:55:U:H2'	27:16:56:G:H8	1.84	0.42
31:31:108:LYS:HB3	31:31:108:LYS:HE2	1.67	0.42
31:31:126:VAL:O	31:31:196:LEU:HD22	2.19	0.42
32:41:96:ARG:O	32:41:97:ASP:HB2	2.19	0.42
38:58:115:ARG:O	38:58:118:LYS:HB2	2.18	0.42
40:78:15:ARG:HH11	40:78:15:ARG:CB	2.26	0.42
40:78:70:GLN:CD	40:78:70:GLN:N	2.77	0.42
44:B8:52:ILE:HG12	44:B8:61:PHE:HB3	2.01	0.42
46:D8:82:ARG:N	46:D8:82:ARG:HD2	2.33	0.42
48:F8:57:LEU:N	48:F8:57:LEU:HD23	2.33	0.42
50:H8:132:ASN:OD1	50:H8:132:ASN:N	2.51	0.42
53:K8:16:LEU:O	53:K8:21:LEU:HG	2.19	0.42
55:M8:9:LEU:HD12	55:M8:27:THR:N	2.33	0.42
58:P8:1:MET:HE3	58:P8:1:MET:HB2	1.79	0.42
1:1G:447:G:O6	1:1G:485:G:C8	2.71	0.42
1:1G:458:C:H2'	1:1G:464:G:C8	2.55	0.42
1:1G:458:C:H2'	1:1G:464:G:H8	1.83	0.42
1:1G:521:G:O5'	12:3A:73:GLU:HG2	2.18	0.42
1:1G:591:U:OP2	8:72:30:ARG:HD3	2.18	0.42
1:1G:855:G:H5"	1:1G:871:U:O4	2.19	0.42
1:1G:1080:A:OP1	5:42:14:ARG:NH2	2.52	0.42
1:1G:1126:U:H4'	1:1G:1127:G:C5	2.54	0.42
1:1G:1288:A:C4	1:1G:1289:A:C8	3.07	0.42
1:1G:1306:A:C6	1:1G:1307:U:C2	3.07	0.42
1:1G:1385:G:C6	1:1G:1386:G:N7	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:42:42:GLY:HA2	5:42:65:ASN:O	2.19	0.42
6:52:16:GLN:H	6:52:16:GLN:HG2	1.56	0.42
6:52:72:VAL:HG13	6:52:73:ASN:H	1.85	0.42
14:5A:37:PHE:CZ	14:5A:53:LEU:HD13	2.55	0.42
24:3L:4:U:O2	24:3L:70:A:N1	2.52	0.42
26:14:13:A:N1	26:14:525:U:H2'	2.34	0.42
26:14:313:C:H5'	63:14:4753:HOH:O	2.18	0.42
26:14:389:G:H22	40:35:72:PRO:HD3	1.83	0.42
26:14:901:A:H2'	26:14:901:A:N3	2.34	0.42
26:14:1187:G:H8	26:14:1187:G:O5'	2.02	0.42
26:14:1188:U:C4'	46:95:79:VAL:HG22	2.49	0.42
26:14:1260:G:H2'	26:14:1261:C:H6	1.82	0.42
26:14:1652:A:OP1	42:55:8:ARG:NH1	2.52	0.42
26:14:2094:G:OP1	35:69:22:LYS:HD2	2.20	0.42
26:14:2131:G:N2	26:14:2157:G:H1'	2.34	0.42
26:14:2482:G:C2'	26:14:2483:C:H5'	2.49	0.42
26:14:2500:U:H5"	26:14:2501:C:OP2	2.19	0.42
29:19:172:TYR:HD1	29:19:185:VAL:C	2.27	0.42
32:49:16:ARG:N	32:49:17:PRO:HD2	2.34	0.42
33:59:40:GLU:HB2	33:59:41:MET:HE2	2.01	0.42
38:15:67:LEU:HD12	38:15:67:LEU:HA	1.82	0.42
42:55:103:ARG:NH2	42:55:110:PRO:HD3	2.34	0.42
43:65:17:ARG:HD2	43:65:17:ARG:O	2.20	0.42
44:75:54:ARG:HG2	44:75:59:THR:HG21	2.01	0.42
45:85:106:PHE:O	45:85:109:LEU:N	2.49	0.42
48:B5:12:VAL:HG12	48:B5:29:TRP:CD2	2.54	0.42
1:13:99:C:H2'	1:13:101:A:C8	2.54	0.42
1:13:247:G:C6	1:13:278:G:C2	3.08	0.42
1:13:392:G:H5'	16:7I:12:LYS:HD2	2.01	0.42
1:13:475:G:H2'	1:13:476:G:O4'	2.20	0.42
1:13:720:C:OP2	1:13:721:G:O2'	2.34	0.42
5:4E:105:VAL:HB	5:4E:106:PRO:HD3	2.01	0.42
7:6E:71:PRO:HG3	7:6E:103:TRP:CZ3	2.55	0.42
8:7E:98:LYS:H	8:7E:98:LYS:HG3	1.54	0.42
9:8E:48:GLU:N	9:8E:49:PRO:HD2	2.35	0.42
12:3I:9:GLN:O	12:3I:13:LYS:HG2	2.19	0.42
19:AI:5:LEU:HD13	19:AI:10:PHE:CE1	2.55	0.42
19:AI:10:PHE:CD1	19:AI:10:PHE:N	2.87	0.42
26:1H:26:G:C6	26:1H:27:G:N1	2.86	0.42
26:1H:289:A:C4	26:1H:353:G:N2	2.87	0.42
26:1H:971:C:H2'	26:1H:972:G:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1068:G:H4'	26:1H:1096:A:H2	1.83	0.42
26:1H:1221:C:C2	26:1H:1222:C:C5	3.07	0.42
26:1H:1280:G:N2	26:1H:1291:C:C2	2.87	0.42
26:1H:1638:C:O2	26:1H:2698:U:O2'	2.37	0.42
26:1H:1878:G:H2'	26:1H:1879:C:C6	2.54	0.42
26:1H:1914:C:H2'	26:1H:1915:U:O4'	2.19	0.42
26:1H:2048:G:C2	26:1H:2621:A:C2	3.08	0.42
26:1H:2094:G:H2'	26:1H:2095:C:O4'	2.18	0.42
26:1H:2335:A:C8	26:1H:2337:G:C5	3.08	0.42
26:1H:2712:U:O2'	26:1H:2713:A:H5'	2.20	0.42
27:16:66:A:C6	27:16:108:C:C6	3.08	0.42
27:16:71:C:N3	27:16:72:G:C8	2.87	0.42
30:21:80:GLU:H	30:21:80:GLU:HG3	1.65	0.42
30:21:128:SER:OG	30:21:129:HIS:N	2.52	0.42
31:31:114:VAL:HG21	31:31:202:PHE:CZ	2.55	0.42
36:38:42:GLN:HG3	36:38:42:GLN:O	2.19	0.42
36:38:88:ALA:C	36:38:92:THR:HB	2.45	0.42
36:38:91:LYS:NZ	36:38:94:VAL:HB	2.34	0.42
37:48:120:LEU:HD12	37:48:120:LEU:HA	1.77	0.42
38:58:39:ARG:C	38:58:41:ASP:H	2.26	0.42
42:98:116:LEU:H	42:98:116:LEU:HD12	1.84	0.42
44:B8:26:ASP:CB	44:B8:91:ARG:HA	2.49	0.42
49:G8:54:LYS:O	49:G8:55:TYR:CG	2.73	0.42
53:K8:52:ASP:N	53:K8:52:ASP:OD1	2.43	0.42
1:1G:1133:G:N2	1:1G:1141:C:C2	2.84	0.42
1:1G:1191:A:H8	1:1G:1191:A:O5'	2.01	0.42
3:22:29:TYR:HD2	14:5A:36:PHE:CZ	2.36	0.42
4:32:73:ARG:O	4:32:77:ASN:ND2	2.36	0.42
10:1A:78:ASN:HB2	10:1A:81:THR:HG23	2.01	0.42
22:1L:41:C:H2'	22:1L:42:G:C8	2.54	0.42
24:3L:1:G:H22	24:3L:73:C:H42	1.68	0.42
26:14:107:C:H2'	26:14:108:U:H6	1.84	0.42
26:14:581:C:C2	26:14:582:G:C8	3.07	0.42
26:14:975:G:C4	26:14:976:C:C5	3.07	0.42
26:14:1399:C:O2'	26:14:1400:G:H5'	2.19	0.42
26:14:1850:G:H2'	26:14:1851:U:O4'	2.19	0.42
26:14:1957:C:H5"	63:14:3983:HOH:O	2.18	0.42
26:14:2287:A:H2	26:14:2346:A:C2	2.36	0.42
26:14:2549:G:O6	63:14:3891:HOH:O	2.20	0.42
26:14:2861:G:O2'	26:14:2862:G:H5'	2.19	0.42
27:1J:73:A:H3'	27:1J:74:U:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:10:PRO:HD2	31:39:13:SER:OG	2.20	0.42
31:39:22:ALA:C	31:39:24:LEU:N	2.76	0.42
31:39:123:LEU:HA	31:39:192:LEU:C	2.43	0.42
31:39:158:THR:C	31:39:160:ASN:H	2.26	0.42
39:25:4:PRO:O	39:25:5:GLN:HB2	2.19	0.42
41:45:16:ARG:HE	41:45:16:ARG:HB3	1.43	0.42
43:65:87:PHE:CZ	43:65:102:ALA:HB2	2.54	0.42
45:85:65:ILE:HD13	45:85:65:ILE:HA	1.84	0.42
45:85:112:ARG:CZ	46:95:47:VAL:HG21	2.48	0.42
47:A5:13:SER:HA	47:A5:99:ARG:HB2	2.01	0.42
47:A5:110:LYS:HA	47:A5:110:LYS:HD2	1.54	0.42
48:B5:80:ILE:HD13	48:B5:80:ILE:O	2.19	0.42
52:F5:57:GLU:O	52:F5:58:ILE:HD13	2.19	0.42
52:F5:95:LEU:HD12	52:F5:95:LEU:HA	1.83	0.42
56:J5:35:GLU:OE1	56:J5:35:GLU:N	2.52	0.42
1:13:246:A:C4	1:13:282:A:N6	2.88	0.42
1:13:256:U:C2	1:13:257:G:C8	3.08	0.42
1:13:405:U:OP2	4:3E:3:ARG:NH2	2.52	0.42
1:13:723:U:H5"	1:13:724:G:OP2	2.19	0.42
1:13:939:G:C6	1:13:940:C:N4	2.87	0.42
1:13:1459:C:P	20:BI:31:SER:HG	2.42	0.42
4:3E:108:LEU:HB3	4:3E:110:PHE:CE1	2.54	0.42
5:4E:72:GLN:N	5:4E:72:GLN:OE1	2.52	0.42
9:8E:27:THR:HB	9:8E:62:TYR:HA	2.00	0.42
9:8E:33:PHE:HE1	9:8E:37:PHE:HD2	1.66	0.42
12:3I:59:ARG:HA	12:3I:65:GLU:HA	2.01	0.42
18:9I:76:LEU:N	18:9I:76:LEU:HD23	2.34	0.42
24:3K:7:G:N3	24:3K:50:G:C8	2.87	0.42
26:1H:202:U:C4	63:1H:3877:HOH:O	2.57	0.42
26:1H:272:G:H2'	26:1H:273:G:O4'	2.20	0.42
26:1H:478:A:C6	26:1H:480:A:C6	3.07	0.42
26:1H:624:C:O5'	26:1H:624:C:H6	2.03	0.42
26:1H:637:A:O5'	40:78:116:GLY:HA3	2.19	0.42
26:1H:1021:A:O2'	26:1H:1123:C:OP1	2.32	0.42
26:1H:1516:U:H2'	26:1H:1517:G:C8	2.54	0.42
26:1H:2061:G:H2'	26:1H:2501:C:O2'	2.19	0.42
26:1H:2121:G:H2'	26:1H:2122:U:O4'	2.18	0.42
29:11:93:ALA:HB3	29:11:105:ILE:HG22	2.00	0.42
32:41:51:ARG:H	32:41:51:ARG:HG3	1.56	0.42
35:61:73:GLU:HG3	35:61:136:VAL:HG23	2.00	0.42
36:38:25:PHE:HE1	36:38:83:TYR:C	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:38:42:GLN:C	36:38:44:LEU:H	2.28	0.42
40:78:64:LYS:HD2	59:Q8:12:LYS:HD2	2.00	0.42
41:88:48:GLU:HG3	41:88:48:GLU:O	2.19	0.42
41:88:51:ARG:NH2	41:88:52:VAL:HG23	2.34	0.42
42:98:87:TYR:CD1	42:98:90:ARG:HD2	2.55	0.42
44:B8:105:LEU:HD12	44:B8:105:LEU:HA	1.76	0.42
50:H8:95:PRO:HB2	50:H8:127:LYS:HD3	2.02	0.42
57:O8:11:LEU:HD23	57:O8:26:ASN:HB3	2.01	0.42
1:1G:622:A:C8	1:1G:623:C:C6	3.07	0.42
1:1G:854:G:C2	1:1G:855:G:C8	3.07	0.42
1:1G:891:U:OP2	63:1G:1848:HOH:O	2.22	0.42
1:1G:973:G:H1'	10:1A:55:LYS:CG	2.48	0.42
1:1G:1037:C:H2'	1:1G:1038:C:H6	1.81	0.42
1:1G:1356:G:H2'	1:1G:1357:A:C8	2.54	0.42
12:3A:15:ARG:HD3	12:3A:15:ARG:HA	1.79	0.42
12:3A:89:ARG:HE	12:3A:89:ARG:HB3	1.65	0.42
14:5A:29:ARG:HG3	14:5A:29:ARG:O	2.20	0.42
19:AA:39:THR:HA	19:AA:70:LYS:HD3	2.00	0.42
26:14:39:C:H2'	26:14:40:C:H6	1.84	0.42
26:14:654(A):A:C2	26:14:654(T):A:N7	2.88	0.42
26:14:740:U:O4'	26:14:1981:A:C4	2.72	0.42
26:14:944:G:H5"	26:14:945:A:O5'	2.20	0.42
26:14:1465:G:C4	26:14:1466:G:C8	3.07	0.42
26:14:1632:A:N7	26:14:1633:G:C6	2.88	0.42
26:14:2068:U:N3	26:14:2430:A:C2	2.79	0.42
26:14:2600:A:H2'	26:14:2601:C:C6	2.55	0.42
26:14:2652:C:N4	26:14:2668:G:H1	2.08	0.42
26:14:2688:U:H5	26:14:2720:U:OP2	2.02	0.42
29:19:231:HIS:ND1	29:19:232:PRO:N	2.68	0.42
31:39:150:GLY:HA2	31:39:172:TRP:CG	2.54	0.42
32:49:5:VAL:HG12	32:49:7:LEU:N	2.23	0.42
32:49:125:PHE:HB3	32:49:166:ASP:CB	2.48	0.42
35:69:92:VAL:HB	35:69:120:ILE:HB	2.01	0.42
40:35:90:ARG:HG3	40:35:91:PHE:N	2.34	0.42
41:45:68:ILE:HD13	41:45:103:MET:HG2	2.01	0.42
49:C5:98:VAL:HG13	49:C5:103:GLY:O	2.19	0.42
50:D5:144:LEU:HD21	50:D5:150:LEU:HB2	2.01	0.42
1:13:468:A:OP1	16:7I:75:ARG:NH2	2.48	0.42
1:13:624:C:H2'	1:13:625:G:C8	2.54	0.42
1:13:843:U:H5"	1:13:848:C:C5	2.54	0.42
1:13:875:C:O2'	8:7E:14:ARG:NH1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:914:A:C4	1:13:915:A:C8	3.07	0.42
4:3E:8:VAL:HG11	4:3E:21:LEU:HB2	2.01	0.42
6:5E:21:LEU:HD13	6:5E:21:LEU:HA	1.81	0.42
7:6E:15:ASP:OD1	7:6E:16:LEU:N	2.52	0.42
9:8E:92:TYR:HD1	9:8E:92:TYR:HA	1.73	0.42
12:3I:28:LYS:HB2	12:3I:33:ARG:NH1	2.34	0.42
13:4I:3:ARG:HE	13:4I:3:ARG:HB2	1.57	0.42
15:6I:3:ILE:HG21	15:6I:34:LEU:HG	2.02	0.42
16:7I:5:ARG:HH21	16:7I:22:THR:CG2	2.32	0.42
26:1H:17:G:H2'	26:1H:18:C:C6	2.55	0.42
26:1H:91:A:H2'	26:1H:92:G:O4'	2.20	0.42
26:1H:469:G:H2'	26:1H:470:A:H5"	2.02	0.42
26:1H:481:G:C4	26:1H:507:A:C2	3.08	0.42
26:1H:851:U:O2	26:1H:928:G:C2	2.73	0.42
26:1H:1259:G:H2'	26:1H:1260:G:H8	1.83	0.42
26:1H:1488:G:C5	26:1H:1489:U:C5	3.07	0.42
26:1H:1811:G:H2'	26:1H:1812:A:O4'	2.19	0.42
26:1H:1899:G:H21	26:1H:1902:C:H5	1.67	0.42
26:1H:2027:G:C5	26:1H:2028:U:C5	3.07	0.42
26:1H:2607:G:H2'	26:1H:2608:G:O4'	2.19	0.42
26:1H:2830:G:C5'	26:1H:2830:G:C8	3.02	0.42
26:1H:2887:U:H2'	26:1H:2888:C:C6	2.55	0.42
29:11:28:GLU:N	29:11:29:PRO:CD	2.83	0.42
29:11:132:PRO:HD3	29:11:190:TYR:CE2	2.55	0.42
29:11:172:TYR:CD1	29:11:186:HIS:HA	2.54	0.42
40:78:60:MET:HA	59:Q8:13:ARG:HH11	1.83	0.42
49:G8:40:GLU:HA	49:G8:41:GLY:HA2	1.66	0.42
1:1G:113:G:H2'	1:1G:114:U:C6	2.54	0.42
1:1G:135:C:O2	16:7A:1:MET:HB3	2.19	0.42
1:1G:613:C:O5'	1:1G:613:C:H6	2.02	0.42
1:1G:939:G:H5'	7:62:102:ARG:CZ	2.50	0.42
1:1G:991:U:O2	1:1G:993:G:C8	2.73	0.42
1:1G:1055:A:N7	1:1G:1206:G:N2	2.68	0.42
1:1G:1217:C:OP1	14:5A:9:LYS:HD2	2.19	0.42
2:12:87:ARG:HE	2:12:233:SER:CB	2.32	0.42
4:32:187:ARG:NH2	4:32:190:ASP:HB2	2.34	0.42
5:42:101:ILE:O	5:42:120:THR:OG1	2.35	0.42
8:72:12:ARG:NH1	8:72:27:PRO:HD2	2.35	0.42
9:82:86:VAL:HG23	9:82:96:LEU:HD22	2.01	0.42
10:1A:75:ILE:HD12	10:1A:76:ASN:CG	2.44	0.42
13:4A:81:LEU:HB3	13:4A:89:GLY:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9A:53:ARG:HH21	18:9A:60:ALA:N	2.17	0.42
20:BA:25:ARG:HG3	20:BA:29:LYS:HZ3	1.85	0.42
26:14:26:G:C6	26:14:27:G:C6	3.08	0.42
26:14:128:C:H2'	26:14:129:C:H6	1.85	0.42
26:14:853:G:H2'	26:14:854:G:H8	1.84	0.42
26:14:878:A:N1	26:14:900:A:N7	2.67	0.42
26:14:2504:U:OP2	63:14:3901:HOH:O	2.21	0.42
26:14:2888:C:H2'	26:14:2889:C:C6	2.55	0.42
45:85:20:LEU:HD12	45:85:20:LEU:HA	1.89	0.42
46:95:1:MET:HB3	46:95:42:GLY:HA3	2.02	0.42
48:B5:12:VAL:CG2	48:B5:27:THR:HB	2.50	0.42
48:B5:24:GLY:O	48:B5:83:VAL:HG12	2.20	0.42
50:D5:44:PHE:C	50:D5:44:PHE:CD1	2.98	0.42
50:D5:111:VAL:H	50:D5:145:GLU:HG2	1.84	0.42
50:D5:143:GLY:O	50:D5:144:LEU:C	2.63	0.42
1:13:176:C:H2'	1:13:177:C:H6	1.84	0.42
1:13:437:U:C4	1:13:438:G:C6	3.07	0.42
1:13:452:A:H2'	1:13:453:A:C8	2.55	0.42
1:13:685:G:O2'	1:13:686:U:H5'	2.20	0.42
1:13:866:C:O5'	1:13:866:C:H6	2.02	0.42
1:13:911:U:H2'	1:13:912:C:C6	2.54	0.42
1:13:953:G:H2'	1:13:954:G:O4'	2.19	0.42
1:13:1037:C:H2'	1:13:1038:C:H6	1.85	0.42
1:13:1256:A:OP2	3:2E:26:LYS:NZ	2.44	0.42
1:13:1412:C:OP1	12:3I:57:LYS:NZ	2.44	0.42
2:1E:95:GLN:CD	2:1E:147:LYS:HZ3	2.28	0.42
2:1E:153:ARG:HE	2:1E:153:ARG:HB3	1.62	0.42
4:3E:196:LEU:HD23	4:3E:196:LEU:HA	1.90	0.42
5:4E:68:GLU:O	5:4E:70:PRO:HD3	2.20	0.42
7:6E:51:GLN:HG2	7:6E:58:PRO:HD3	2.01	0.42
7:6E:149:ARG:O	7:6E:149:ARG:HG3	2.20	0.42
10:1I:6:ILE:CG2	10:1I:98:ILE:HG23	2.49	0.42
13:4I:50:GLU:H	13:4I:50:GLU:HG2	1.46	0.42
20:BI:50:GLU:HA	20:BI:100:ILE:HB	2.01	0.42
23:2K:73:A:N6	23:2K:74:A:C6	2.88	0.42
26:1H:274:G:N3	26:1H:276:A:N1	2.67	0.42
26:1H:654(O):G:C8	26:1H:654(P):G:C2	3.08	0.42
26:1H:958:U:O2	27:16:89(A):A:H4'	2.20	0.42
26:1H:1034:G:H2'	26:1H:1035:U:O4'	2.18	0.42
26:1H:1278:A:OP1	42:98:36:THR:HG22	2.19	0.42
26:1H:1401:G:H2'	26:1H:1402:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1433:U:O2	26:1H:1561:G:C2	2.72	0.42
26:1H:1467:C:N4	26:1H:1525:G:H1	2.13	0.42
26:1H:1683:C:H42	26:1H:1705:G:H1	1.66	0.42
26:1H:1968:G:P	63:1H:3879:HOH:O	2.76	0.42
26:1H:2000:G:C2'	26:1H:2001:A:H5'	2.49	0.42
26:1H:2556:C:H2'	26:1H:2557:G:O4'	2.19	0.42
26:1H:2774:C:OP2	63:1H:3972:HOH:O	2.21	0.42
26:1H:2801:A:H2'	26:1H:2802:G:O4'	2.20	0.42
29:11:158:ALA:O	29:11:159:ALA:C	2.62	0.42
46:D8:24:LYS:HD3	46:D8:90:PRO:HB2	2.01	0.42
49:G8:88:LYS:HB2	49:G8:88:LYS:HZ2	1.84	0.42
53:K8:7:ARG:O	53:K8:11:GLU:HB2	2.19	0.42
53:K8:14:ARG:HG2	53:K8:63:VAL:CG1	2.50	0.42
53:K8:35:LEU:HD13	53:K8:35:LEU:HA	1.88	0.42
58:P8:23:ARG:CZ	58:P8:23:ARG:HB2	2.49	0.42
1:1G:106:C:C2'	1:1G:107:G:H5'	2.50	0.42
1:1G:424:G:H2'	1:1G:425:G:H8	1.84	0.42
1:1G:536:C:H2'	1:1G:537:G:H8	1.85	0.42
1:1G:1317:C:H5"	1:1G:1318:A:OP2	2.20	0.42
1:1G:1345:U:O5'	63:1G:1847:HOH:O	2.21	0.42
2:12:98:LEU:HD23	2:12:98:LEU:HA	1.71	0.42
4:32:178:VAL:O	4:32:179:GLU:HB3	2.19	0.42
9:82:43:ALA:C	9:82:45:ALA:H	2.26	0.42
17:8A:81:ARG:CD	17:8A:84:LEU:HD23	2.49	0.42
20:BA:86:ARG:O	20:BA:90:GLN:HB2	2.19	0.42
26:14:218:A:H2	26:14:235:U:H4'	1.82	0.42
26:14:860:U:H1'	26:14:2268:A:H5'	2.02	0.42
26:14:868:U:C4	26:14:869:G:N7	2.87	0.42
26:14:957:A:N1	26:14:2459:A:H8	2.18	0.42
26:14:1133:U:O2	26:14:1137:G:H5"	2.19	0.42
26:14:1471:A:OP2	26:14:1521:G:N1	2.47	0.42
26:14:1504:C:H2'	26:14:1505:C:C6	2.53	0.42
26:14:1614:A:H2	63:14:3721:HOH:O	2.02	0.42
26:14:2093:G:C6	26:14:2225:A:C8	3.08	0.42
26:14:2114:A:C6	26:14:2119:A:N1	2.88	0.42
26:14:2275:C:O2'	41:45:83:MET:HA	2.20	0.42
26:14:2536:G:C6	26:14:2537:U:C4	3.07	0.42
26:14:2577:A:O4'	56:J5:3:LYS:HB2	2.19	0.42
26:14:2872:G:C4	26:14:2873:A:C2	3.07	0.42
28:79:45:ALA:HA	28:79:211:SER:O	2.18	0.42
29:19:44:ASN:C	29:19:44:ASN:ND2	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:29:10:GLY:HA3	44:75:8:LYS:HE2	2.00	0.42
30:29:174:ASP:HB3	30:29:183:LEU:HD22	2.02	0.42
31:39:107:LYS:HA	31:39:107:LYS:HD3	1.65	0.42
31:39:110:LEU:CD1	31:39:205:ARG:HE	2.33	0.42
31:39:178:PRO:HB2	31:39:201:VAL:HG11	2.01	0.42
32:49:136:ARG:HH11	32:49:137:GLU:CD	2.27	0.42
33:59:102:ALA:HB1	33:59:115:VAL:C	2.45	0.42
40:35:71:VAL:CG1	40:35:72:PRO:HD3	2.50	0.42
40:35:124:LYS:HA	40:35:143:GLY:O	2.19	0.42
45:85:68:ALA:O	45:85:71:GLN:HB2	2.19	0.42
49:C5:31:LEU:HD22	49:C5:34:LYS:HD3	2.00	0.42
50:D5:95:PRO:HB3	50:D5:127:LYS:HZ2	1.84	0.42
1:13:269:C:H2'	1:13:270:A:C8	2.55	0.42
1:13:313:A:C4	1:13:314:C:C5	3.08	0.42
1:13:457:C:O2'	1:13:458:C:H5'	2.19	0.42
1:13:589:C:N4	1:13:650:G:H1	2.18	0.42
2:1E:187:LEU:HD22	2:1E:203:GLY:H	1.84	0.42
4:3E:4:TYR:C	4:3E:5:ILE:HG13	2.44	0.42
4:3E:43:HIS:ND1	4:3E:46:LYS:HE3	2.34	0.42
5:4E:10:MET:HB3	5:4E:32:VAL:HG13	2.01	0.42
7:6E:50:ILE:HB	7:6E:58:PRO:HB3	2.01	0.42
8:7E:121:ASP:O	8:7E:125:ARG:HB2	2.20	0.42
10:1I:49:VAL:CG2	14:5I:41:ARG:HB2	2.45	0.42
10:1I:90:LEU:N	10:1I:91:PRO:HD3	2.35	0.42
12:3I:11:VAL:HG13	17:8I:29:HIS:CD2	2.55	0.42
15:6I:43:LEU:HD12	15:6I:56:LEU:HD13	2.02	0.42
22:1K:8:4SU:H6	22:1K:8:4SU:H5"	2.02	0.42
25:4K:7:G:H2'	25:4K:8:A:N9	2.35	0.42
25:4K:25:A:H4'	25:4K:26:A:OP1	2.20	0.42
26:1H:1332:G:N2	26:1H:1610:A:H8	2.17	0.42
26:1H:1443:G:C2	26:1H:1549:C:N3	2.88	0.42
32:41:41:GLN:O	32:41:89:GLY:HA3	2.19	0.42
32:41:118:ARG:HA	32:41:118:ARG:HD3	1.91	0.42
42:98:51:LEU:HD23	42:98:51:LEU:HA	1.77	0.42
47:E8:86:LEU:HD12	47:E8:87:PRO:HD2	2.01	0.42
50:H8:6:LYS:HE3	50:H8:8:TYR:CE2	2.54	0.42
1:1G:27:G:H2'	1:1G:28:G:O4'	2.19	0.42
1:1G:737:A:H2'	1:1G:738:C:C6	2.54	0.42
1:1G:833:U:H2'	1:1G:834:C:H6	1.85	0.42
1:1G:1170:A:N1	1:1G:1171:G:H1'	2.35	0.42
1:1G:1329:A:H5"	13:4A:25:ILE:C	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:95:GLN:HG3	2:12:147:LYS:O	2.20	0.42
8:72:29:SER:O	8:72:32:LYS:HB2	2.19	0.42
20:BA:50:GLU:HA	20:BA:100:ILE:CG2	2.49	0.42
22:1L:8:4SU:H2'	22:1L:8:4SU:O2	2.20	0.42
26:14:89:G:O5'	26:14:90:U:H5"	2.20	0.42
26:14:620:G:H8	26:14:622:G:O6	2.01	0.42
26:14:991:C:N3	26:14:1164:G:C6	2.87	0.42
26:14:1387:C:O2	26:14:1387:C:H2'	2.20	0.42
26:14:1815:A:C5	26:14:1817:G:C6	3.08	0.42
26:14:2018:G:H2'	26:14:2019:A:O4'	2.20	0.42
26:14:2287:A:C2	26:14:2346:A:C2	3.07	0.42
26:14:2331:G:H5'	51:E5:44:ARG:HG3	2.01	0.42
26:14:2506:U:C2	26:14:2585:U:O4	2.73	0.42
26:14:2589:A:OP1	63:14:3902:HOH:O	2.21	0.42
26:14:2638:G:OP2	30:29:82:ARG:NH2	2.53	0.42
26:14:2808:U:H5"	26:14:2891:G:O6	2.19	0.42
27:1J:87:G:H3'	27:1J:88:C:C6	2.55	0.42
29:19:255:LYS:HZ2	29:19:255:LYS:C	2.27	0.42
30:29:120:TRP:CD1	30:29:155:LYS:HB3	2.55	0.42
40:35:138:LEU:HB3	40:35:144:GLU:OE2	2.19	0.42
53:G5:16:LEU:O	53:G5:21:LEU:HG	2.19	0.42
1:13:52:G:O2'	1:13:53:A:H5'	2.20	0.42
1:13:116:A:H61	1:13:313:A:H1'	1.85	0.42
1:13:130:A:P	17:8I:63:ARG:HH21	2.42	0.42
1:13:133:U:H1'	1:13:230:G:N2	2.35	0.42
1:13:179:A:H2'	1:13:180:U:H6	1.85	0.42
1:13:191:G:H1'	20:BI:105:SER:HA	2.02	0.42
1:13:543:C:P	4:3E:14:ARG:HH21	2.43	0.42
1:13:660:G:C2	1:13:746:A:C2	3.08	0.42
1:13:674:G:H2'	1:13:675:A:H8	1.84	0.42
1:13:773:G:H1	1:13:806:C:H42	1.67	0.42
1:13:835:U:OP2	18:9I:60:ALA:HB3	2.20	0.42
1:13:1157:A:C8	1:13:1181:G:C6	3.07	0.42
1:13:1158:C:C2	1:13:1160:G:C8	3.08	0.42
1:13:1321:C:C5	1:13:1322:C:C2	3.08	0.42
1:13:1416:G:C6	1:13:1417:G:C5	3.08	0.42
5:4E:87:SER:HB3	5:4E:125:SER:O	2.19	0.42
9:8E:19:LEU:HD23	9:8E:19:LEU:HA	1.87	0.42
11:2I:33:THR:C	11:2I:40:ILE:HG12	2.45	0.42
12:3I:85:ILE:HG23	12:3I:85:ILE:HD12	1.67	0.42
18:9I:36:ASN:HD22	18:9I:39:VAL:CB	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1127:A:O2'	26:1H:2518:A:OP1	2.31	0.42
26:1H:1142(A):A:C5	26:1H:1144:G:C5	3.08	0.42
26:1H:1682:G:H2'	26:1H:1683:C:C6	2.55	0.42
26:1H:1929:G:H4'	26:1H:1930:G:OP1	2.19	0.42
26:1H:2170:A:H5"	26:1H:2171:A:OP1	2.19	0.42
26:1H:2371:G:O2'	57:O8:45:LYS:HB3	2.19	0.42
26:1H:2402:C:H5	26:1H:2415:G:H22	1.68	0.42
26:1H:2789:C:H1'	26:1H:2892:A:C2	2.45	0.42
27:16:41:U:O4	32:41:72:ARG:HG3	2.19	0.42
30:21:77:ILE:C	30:21:79:ARG:H	2.21	0.42
32:41:33:ARG:NH1	32:41:162:THR:HG21	2.35	0.42
33:51:13:LYS:HD3	33:51:13:LYS:HA	1.86	0.42
33:51:94:TYR:HE2	33:51:160:LYS:HB2	1.81	0.42
38:58:39:ARG:O	38:58:41:ASP:N	2.53	0.42
45:C8:69:CYS:SG	45:C8:79:PHE:CD2	3.04	0.42
48:F8:15:GLU:N	48:F8:15:GLU:OE2	2.50	0.42
49:G8:89:PHE:HD1	49:G8:90:LEU:H	1.66	0.42
51:I8:31:VAL:HG21	51:I8:61:ALA:HB2	2.02	0.42
57:O8:27:LYS:NZ	57:O8:27:LYS:HB2	2.34	0.42
1:1G:257:G:H2'	1:1G:258:G:C8	2.54	0.42
1:1G:275:G:H5'	17:8A:14:LYS:HB3	2.02	0.42
1:1G:408:A:O5'	1:1G:408:A:H8	2.03	0.42
1:1G:411:A:N6	1:1G:413:G:H21	2.08	0.42
1:1G:562:C:H4'	1:1G:563:A:O5'	2.20	0.42
1:1G:652:U:HO2'	1:1G:653:A:P	2.43	0.42
1:1G:718:G:H1'	11:2A:116:HIS:HA	2.02	0.42
1:1G:731:G:OP1	1:1G:766:A:H1'	2.19	0.42
1:1G:953:G:C6	1:1G:954:G:C5	3.08	0.42
1:1G:1079:G:H5"	5:42:45:PHE:HE2	1.85	0.42
1:1G:1178:G:N2	1:1G:1180:A:H3'	2.35	0.42
1:1G:1304:G:N2	1:1G:1332:A:OP2	2.46	0.42
1:1G:1343:G:H2'	1:1G:1344:C:H6	1.85	0.42
4:32:57:ARG:HH21	4:32:205:GLU:CD	2.27	0.42
4:32:207:TYR:O	4:32:209:ARG:N	2.53	0.42
7:62:137:LYS:HE3	7:62:137:LYS:HB3	1.76	0.42
7:62:146:GLU:OE1	11:2A:54:ARG:HG2	2.20	0.42
9:82:48:GLU:O	9:82:51:ARG:N	2.50	0.42
12:3A:28:LYS:HE3	12:3A:33:ARG:NH2	2.35	0.42
17:8A:27:PHE:CZ	17:8A:36:ILE:HD11	2.55	0.42
26:14:43:G:H1'	26:14:438:G:N2	2.35	0.42
26:14:139:G:N2	26:14:1596:A:H4'	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:881:G:OP2	26:14:881:G:H8	2.03	0.42
26:14:960:A:C8	26:14:962:G:C8	3.07	0.42
26:14:994:C:O2'	26:14:996:A:OP1	2.29	0.42
26:14:1061:U:H4'	26:14:1070:A:H1'	2.01	0.42
26:14:1111:A:O2'	33:59:2:SER:OG	2.31	0.42
26:14:1113:U:H5'	33:59:2:SER:N	2.34	0.42
26:14:2210:G:H5'	26:14:2211:G:C6	2.55	0.42
26:14:2688:U:H1'	26:14:2721:A:N6	2.34	0.42
26:14:2867:G:OP2	44:75:119:LYS:NZ	2.39	0.42
28:79:213:TYR:CE1	28:79:221:SER:HB2	2.55	0.42
29:19:222:ARG:HH11	29:19:222:ARG:HD2	1.72	0.42
30:29:97:LYS:H	30:29:100:GLU:CD	2.28	0.42
35:69:14:ASP:O	35:69:17:GLN:HB2	2.20	0.42
39:25:49:ARG:HA	39:25:53:LYS:NZ	2.35	0.42
42:55:29:LEU:HD12	42:55:29:LEU:HA	1.77	0.42
47:A5:28:SER:HA	47:A5:70:TYR:HA	2.02	0.42
50:D5:128:VAL:HG22	50:D5:129:SER:O	2.20	0.42
53:G5:62:THR:O	53:G5:65:ASN:HB2	2.19	0.42
54:H5:4:LEU:HD11	54:H5:39:ASP:OD1	2.20	0.42
1:13:352:C:P	63:13:1978:HOH:O	2.78	0.42
1:13:417:C:H42	1:13:426:G:H1	1.68	0.42
1:13:711:G:O2'	1:13:712:A:H5'	2.20	0.42
1:13:1269:A:H2	1:13:1312:G:N3	2.17	0.42
6:5E:24:GLU:HA	6:5E:27:GLN:HG2	2.02	0.42
7:6E:120:ILE:O	7:6E:124:LEU:HB2	2.19	0.42
9:8E:7:THR:O	9:8E:83:ARG:HD2	2.20	0.42
16:7I:20:VAL:HG21	16:7I:32:TYR:CD2	2.55	0.42
16:7I:57:ARG:O	16:7I:61:SER:N	2.46	0.42
22:1K:77:A:HO3'	26:1H:2585:U:H5	1.65	0.42
26:1H:43:G:H2'	26:1H:44:A:O4'	2.20	0.42
26:1H:493:G:H2'	26:1H:494:G:O4'	2.20	0.42
26:1H:628:G:H2'	26:1H:629:G:C8	2.54	0.42
26:1H:761:A:C5	63:1H:3936:HOH:O	2.71	0.42
26:1H:1028:A:N3	26:1H:2486:G:O2'	2.44	0.42
26:1H:1080:A:C2	37:48:126:MET:HG3	2.53	0.42
26:1H:1309:G:OP1	58:P8:9:ARG:HG3	2.19	0.42
26:1H:1426:G:H2'	26:1H:1427:A:C8	2.54	0.42
26:1H:1726:G:C6	26:1H:1727:U:C4	3.08	0.42
26:1H:2031:A:C6	26:1H:2498:C:H1'	2.55	0.42
26:1H:2160:G:N7	26:1H:2161:C:H1'	2.35	0.42
26:1H:2171:A:H2'	26:1H:2172:U:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2392:A:H2	26:1H:2424:C:H42	1.68	0.42
26:1H:2776:A:H4'	26:1H:2777:G:H5"	2.01	0.42
28:71:10:LEU:HD21	28:71:34:THR:OG1	2.20	0.42
29:11:38:LYS:NZ	29:11:38:LYS:N	2.67	0.42
31:31:20:LEU:HD12	31:31:21:ALA:N	2.35	0.42
33:51:4:ILE:HG12	33:51:6:ARG:HD3	2.01	0.42
33:51:27:LYS:HA	33:51:32:GLU:HA	2.02	0.42
33:51:80:SER:C	33:51:81:GLU:HG3	2.45	0.42
44:B8:105:LEU:O	44:B8:107:ASP:OD1	2.38	0.42
46:D8:6:LYS:O	46:D8:6:LYS:HG3	2.19	0.42
48:F8:37:THR:O	48:F8:40:LYS:HB3	2.20	0.42
49:G8:3:VAL:HG12	49:G8:4:LYS:H	1.85	0.42
57:O8:41:PRO:CD	57:O8:47:THR:H	2.33	0.42
58:P8:30:VAL:O	58:P8:34:ARG:HG3	2.20	0.42
1:1G:750:G:C2	15:6A:23:GLY:HA3	2.55	0.42
1:1G:785:G:O6	63:1G:1846:HOH:O	2.21	0.42
1:1G:960:U:H4'	1:1G:961:U:H5'	2.02	0.42
1:1G:1011:G:C2	1:1G:1019:C:O2	2.73	0.42
1:1G:1206:G:H5"	3:22:190:ARG:HH22	1.83	0.42
1:1G:1250:A:C2	1:1G:1287:A:C6	3.07	0.42
4:32:108:LEU:HD21	4:32:183:GLY:HA3	2.02	0.42
9:82:26:VAL:HG22	9:82:61:ALA:H	1.84	0.42
12:3A:83:VAL:CG2	12:3A:100:ILE:HD12	2.49	0.42
13:4A:29:ARG:HD3	13:4A:64:TRP:CZ2	2.54	0.42
23:2L:73:A:C6	23:2L:74:A:C6	3.07	0.42
26:14:571:A:H5'	26:14:2030:A:N7	2.34	0.42
26:14:1444(A):A:HO2'	26:14:1445:C:P	2.43	0.42
26:14:1550:C:OP1	26:14:1727:U:O2'	2.21	0.42
26:14:2360:A:OP1	59:M5:50:LEU:HB2	2.20	0.42
26:14:2370:G:C6	26:14:2371:G:C6	3.07	0.42
26:14:2795:G:H21	26:14:2802:G:N2	2.18	0.42
26:14:2855:C:H2'	26:14:2856:C:H6	1.84	0.42
26:14:2885:C:H5"	26:14:2886:G:OP2	2.20	0.42
27:1J:88:C:H4'	27:1J:89:G:OP2	2.18	0.42
28:79:64:LEU:HD12	28:79:175:VAL:HA	2.02	0.42
28:79:194:ARG:C	28:79:196:LEU:H	2.28	0.42
29:19:146:GLU:CB	29:19:189:CYS:HB3	2.49	0.42
30:29:52:LEU:O	30:29:75:VAL:HG23	2.20	0.42
31:39:34:TRP:CE3	40:35:8:PRO:HB3	2.54	0.42
45:85:92:ARG:NH1	46:95:11:GLN:O	2.53	0.42
49:C5:17:SER:HB2	49:C5:71:LYS:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:277:C:P	17:8I:68:ARG:HH12	2.43	0.42
1:13:440:A:H5"	1:13:442:C:OP2	2.20	0.42
1:13:710:G:H5"	6:5E:54:LYS:NZ	2.35	0.42
1:13:1176:A:N6	1:13:1177:G:C5	2.87	0.42
1:13:1179:A:H8	1:13:1179:A:O5'	2.02	0.42
1:13:1460:A:H2'	1:13:1461:G:O4'	2.19	0.42
1:13:1486:G:H2'	1:13:1487:G:C1'	2.49	0.42
7:6E:16:LEU:HD21	9:8E:45:ALA:HB2	2.02	0.42
7:6E:70:LYS:HE2	7:6E:97:GLN:HA	2.02	0.42
12:3I:77:LEU:HD21	12:3I:107:ALA:HA	2.01	0.42
12:3I:91:LYS:O	12:3I:91:LYS:HG3	2.19	0.42
17:8I:41:LYS:HD2	17:8I:88:TYR:HE2	1.85	0.42
17:8I:70:ARG:C	17:8I:71:PHE:CD1	2.98	0.42
26:1H:57:C:H2'	26:1H:58:G:O4'	2.20	0.42
26:1H:185:U:H4'	26:1H:218:A:H4'	2.02	0.42
26:1H:545:G:H2'	26:1H:546:C:H5"	2.02	0.42
26:1H:823:G:H2'	26:1H:824:A:C8	2.54	0.42
26:1H:1332:G:H21	26:1H:1610:A:H8	1.66	0.42
26:1H:1581:G:C6	26:1H:1582:C:C4	3.07	0.42
26:1H:1935:G:H1'	26:1H:1964:G:N2	2.35	0.42
26:1H:2030:A:H4'	26:1H:2031:A:C8	2.55	0.42
26:1H:2314:C:H5"	32:41:38:VAL:HG11	2.00	0.42
26:1H:2456:C:O5'	26:1H:2456:C:H6	2.03	0.42
26:1H:2751:G:C8	26:1H:2751:G:OP1	2.73	0.42
28:71:13:LYS:HD2	28:71:13:LYS:HA	1.78	0.42
28:71:58:VAL:N	28:71:165:ASN:OD1	2.51	0.42
29:11:233:HIS:C	63:11:405:HOH:O	2.63	0.42
31:31:65:TRP:CH2	31:31:72:ARG:HD2	2.55	0.42
31:31:93:LYS:HD2	31:31:93:LYS:HA	1.86	0.42
33:51:52:VAL:O	33:51:65:HIS:NE2	2.49	0.42
33:51:71:LEU:HD12	33:51:71:LEU:HA	1.87	0.42
41:88:21:THR:HG21	41:88:101:ARG:N	2.34	0.42
43:A8:5:THR:O	43:A8:8:GLU:HG3	2.19	0.42
53:K8:41:ILE:CG2	53:K8:44:LEU:HB2	2.49	0.42
59:Q8:31:HIS:O	59:Q8:36:LYS:NZ	2.52	0.42
1:1G:442:C:H2'	1:1G:443:C:C6	2.55	0.42
1:1G:1090:U:H4'	1:1G:1170:A:C2	2.54	0.42
1:1G:1162:C:N3	1:1G:1175:G:C2	2.88	0.42
1:1G:1256:A:H62	1:1G:1277:C:H3'	1.84	0.42
11:2A:69:ALA:O	11:2A:73:MET:HG3	2.19	0.42
17:8A:48:GLU:O	17:8A:49:GLU:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1L:9:A:H2	22:1L:24:A:N6	2.13	0.42
24:3L:51:G:H1	24:3L:65:C:N4	2.17	0.42
26:14:28:A:C5	26:14:29:U:C5	3.08	0.42
26:14:252:G:P	40:35:50:ARG:HH21	2.43	0.42
26:14:270(P):C:H2'	26:14:270(Q):C:C6	2.54	0.42
26:14:442:G:C6	26:14:444:C:C4	3.07	0.42
26:14:1144:G:C6	26:14:1145:C:C4	3.08	0.42
26:14:1160:G:C6	26:14:1161:C:C4	3.08	0.42
26:14:1449(A):G:H2'	26:14:1450:C:C6	2.54	0.42
26:14:1491:G:O2'	26:14:1492:G:H5'	2.20	0.42
26:14:2318:G:N2	43:65:3:ARG:HB2	2.35	0.42
26:14:2425:A:H4'	26:14:2426:A:C5'	2.49	0.42
26:14:2563:U:O2	26:14:2565:A:H8	2.02	0.42
26:14:2599:G:OP2	29:19:236:GLY:N	2.52	0.42
26:14:2640:G:H1	26:14:2774:C:H42	1.68	0.42
26:14:2751:G:N2	33:59:2:SER:HB3	2.30	0.42
27:1J:76:G:H5"	50:D5:15:PRO:HG2	2.01	0.42
31:39:36:VAL:O	31:39:40:GLN:HB2	2.20	0.42
31:39:51:THR:HG23	31:39:92:PRO:HG2	2.02	0.42
40:35:138:LEU:HD22	40:35:138:LEU:HA	1.85	0.42
44:75:53:ARG:HH12	44:75:60:THR:HG23	1.84	0.42
50:D5:109:ALA:O	50:D5:110:GLY:O	2.38	0.42
53:G5:43:GLN:H	53:G5:43:GLN:CD	2.27	0.42
1:13:158:G:C5	1:13:159:G:N7	2.88	0.41
1:13:181:G:N2	1:13:183:G:H22	2.19	0.41
1:13:237:C:H5"	17:8I:25:ARG:CZ	2.50	0.41
1:13:444:C:H2'	1:13:445:G:C8	2.54	0.41
1:13:948:C:OP1	13:4I:109:THR:OG1	2.38	0.41
1:13:1320:C:OP1	19:AI:70:LYS:HE3	2.20	0.41
1:13:1336:C:H1'	1:13:1337:G:C6	2.55	0.41
1:13:1346:A:C4	7:6E:10:ARG:NH2	2.88	0.41
5:4E:20:GLN:HG2	5:4E:21:ALA:H	1.85	0.41
7:6E:77:SER:OG	7:6E:84:ASN:OD1	2.30	0.41
7:6E:154:TYR:HD1	7:6E:154:TYR:HA	1.57	0.41
9:8E:25:LYS:HE2	9:8E:60:ASP:HB3	2.01	0.41
9:8E:59:PHE:CZ	9:8E:88:TYR:CE2	3.08	0.41
12:3I:89:ARG:HD2	12:3I:91:LYS:HA	2.02	0.41
26:1H:24:G:C6	26:1H:25:U:C4	3.08	0.41
26:1H:49:A:H5"	26:1H:51:G:O4'	2.20	0.41
26:1H:218:A:H2	26:1H:235:U:H4'	1.85	0.41
26:1H:412:A:H3'	26:1H:413:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:618:G:H2'	26:1H:618(A):C:O4'	2.20	0.41
26:1H:996:A:OP2	45:C8:94:ASN:ND2	2.51	0.41
26:1H:1144:G:C6	26:1H:1145:C:N4	2.87	0.41
26:1H:1177:A:H4'	26:1H:1178:C:O5'	2.18	0.41
26:1H:1284:A:H2'	26:1H:1285:G:O4'	2.20	0.41
26:1H:1322:A:OP1	47:E8:11:ARG:HG3	2.20	0.41
26:1H:1354:A:H2'	26:1H:1355:G:O4'	2.20	0.41
26:1H:1501:C:O4'	29:11:100:GLY:HA2	2.20	0.41
26:1H:1535:U:C6	26:1H:1537:C:N3	2.88	0.41
26:1H:1680:U:C4	26:1H:1681:G:C6	3.08	0.41
26:1H:2169:A:C8	26:1H:2170:A:N7	2.88	0.41
26:1H:2630:G:H2'	26:1H:2631:G:C8	2.53	0.41
26:1H:2712:U:H1'	26:1H:2712(A):A:C8	2.55	0.41
26:1H:2751:G:H8	26:1H:2751:G:P	2.43	0.41
29:11:31:LYS:HB3	29:11:34:VAL:HG22	2.02	0.41
30:21:117:MET:O	30:21:118:LYS:HB3	2.20	0.41
35:61:60:GLU:HB3	35:61:61:ARG:NH2	2.34	0.41
38:58:95:PRO:C	38:58:96:GLU:O	2.61	0.41
42:98:104:ARG:HD2	42:98:107:ASP:OD2	2.20	0.41
43:A8:48:LEU:HD23	43:A8:82:ILE:HD11	2.02	0.41
44:B8:88:ILE:HD13	44:B8:91:ARG:NE	2.35	0.41
45:C8:110:VAL:O	45:C8:114:LYS:HG3	2.20	0.41
50:H8:169:GLU:CD	50:H8:170:THR:H	2.19	0.41
52:J8:58:ILE:CG1	52:J8:87:PRO:HD3	2.50	0.41
55:M8:13:ARG:O	55:M8:30:GLU:HA	2.20	0.41
59:Q8:45:GLY:O	59:Q8:46:ARG:C	2.62	0.41
1:1G:160:A:H1'	1:1G:344:A:C5	2.55	0.41
1:1G:625:G:H4'	16:7A:16:HIS:CG	2.55	0.41
1:1G:1205:U:H4'	3:22:195:VAL:HG13	2.02	0.41
1:1G:1213:A:C6	1:1G:1215:G:C4	3.08	0.41
1:1G:1321:C:C3'	1:1G:1322:C:H5"	2.48	0.41
1:1G:1368:G:C5'	9:82:112:LYS:HB3	2.50	0.41
2:12:22:LYS:HA	2:12:24:TRP:HD1	1.82	0.41
2:12:129:GLU:C	2:12:130:ARG:HG2	2.44	0.41
3:22:134:ILE:HD12	3:22:151:VAL:HG11	2.02	0.41
4:32:31:CYS:O	4:32:32:ALA:HB3	2.20	0.41
5:42:13:ILE:HA	5:42:29:GLY:O	2.20	0.41
6:52:1:MET:HE2	6:52:68:PRO:HD3	2.01	0.41
12:3A:32:PHE:HB3	12:3A:84:LEU:HD21	2.02	0.41
14:5A:29:ARG:HD3	14:5A:40:CYS:SG	2.60	0.41
26:14:2:G:H21	26:14:3:U:H5	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:312:G:H2'	26:14:312:G:N3	2.35	0.41
26:14:922:U:H2'	26:14:923:C:C6	2.55	0.41
26:14:923:C:H2'	26:14:924:C:C6	2.55	0.41
26:14:1176:G:H2'	26:14:1177:A:N3	2.35	0.41
26:14:1239:G:N7	63:14:3826:HOH:O	2.52	0.41
26:14:1783:A:H5'	26:14:2608:G:H4'	2.02	0.41
26:14:2875:C:C4'	44:75:5:ALA:HB2	2.49	0.41
27:1J:73:A:OP2	63:1J:302:HOH:O	2.22	0.41
29:19:85:ASP:HB2	29:19:92:ILE:HG12	2.01	0.41
33:59:6:ARG:CB	33:59:66:GLY:HA2	2.47	0.41
38:15:135:PRO:O	38:15:137:LYS:HE2	2.19	0.41
39:25:88:ASN:O	39:25:90:GLN:N	2.52	0.41
40:35:80:TYR:CE1	40:35:111:ARG:HB2	2.54	0.41
41:45:41:TRP:HB3	41:45:94:VAL:HB	2.01	0.41
49:C5:15:VAL:HG12	49:C5:72:VAL:HG12	2.01	0.41
50:D5:59:LEU:C	50:D5:61:LEU:N	2.78	0.41
50:D5:98:MET:HB2	50:D5:98:MET:HE3	1.63	0.41
53:G5:63:VAL:HA	53:G5:66:GLU:OE1	2.20	0.41
59:M5:14:VAL:CG1	59:M5:22:VAL:HG13	2.50	0.41
1:13:158:G:C4	1:13:159:G:C8	3.08	0.41
1:13:522:C:H2'	1:13:523:A:O4'	2.21	0.41
1:13:920:U:H2'	1:13:921:U:C6	2.54	0.41
1:13:1028:C:O2	1:13:1028:C:H2'	2.19	0.41
1:13:1049:U:O2'	14:5I:2:ALA:HB3	2.20	0.41
1:13:1178:G:H21	1:13:1181:G:H8	1.63	0.41
1:13:1289:A:C8	1:13:1290:G:C8	3.08	0.41
1:13:1313:U:H5	19:AI:4:SER:HB3	1.85	0.41
2:1E:115:LEU:HD13	2:1E:145:LEU:HB2	2.01	0.41
4:3E:104:VAL:O	4:3E:107:ARG:N	2.53	0.41
5:4E:110:LEU:CD1	5:4E:118:ILE:HG21	2.51	0.41
6:5E:82:ARG:HE	6:5E:82:ARG:HB3	1.52	0.41
15:6I:69:TYR:CE1	15:6I:73:GLU:HG3	2.55	0.41
17:8I:9:VAL:O	17:8I:21:VAL:HA	2.20	0.41
18:9I:81:PHE:O	18:9I:82:THR:OG1	2.34	0.41
24:3K:6:U:H3	24:3K:68:G:H22	1.66	0.41
24:3K:10:G:C6	24:3K:11:C:N4	2.88	0.41
26:1H:307:G:H21	26:1H:330:A:N6	2.18	0.41
26:1H:754:C:H2'	26:1H:755:C:H6	1.85	0.41
26:1H:758:C:O2'	26:1H:1981:A:N3	2.47	0.41
26:1H:884:C:O2'	26:1H:885:C:OP1	2.31	0.41
26:1H:1144:G:C6	26:1H:1145:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1164:G:C2	26:1H:1165:U:C2	3.08	0.41
26:1H:1268:A:C2	26:1H:2013:A:C4	3.08	0.41
26:1H:1449(A):G:H2'	26:1H:1450:C:C6	2.54	0.41
26:1H:2210:G:H3'	26:1H:2211:G:N7	2.34	0.41
26:1H:2515:C:O2	26:1H:2570:G:C2	2.74	0.41
29:11:61:LEU:HA	29:11:61:LEU:HD13	1.68	0.41
33:51:83:TYR:CB	33:51:135:GLY:H	2.32	0.41
36:38:61:LEU:O	36:38:62:ALA:C	2.62	0.41
43:A8:26:LEU:O	43:A8:26:LEU:HD23	2.19	0.41
45:C8:101:ARG:C	45:C8:103:PRO:HD3	2.45	0.41
50:H8:6:LYS:HE3	50:H8:8:TYR:HE2	1.84	0.41
51:I8:67:VAL:HG12	51:I8:81:VAL:HG22	2.02	0.41
1:1G:66:G:C2	1:1G:67:C:C6	3.08	0.41
1:1G:413:G:O2'	1:1G:428:G:N2	2.53	0.41
1:1G:572:A:H5'	63:1G:1810:HOH:O	2.20	0.41
1:1G:739:C:OP1	15:6A:2:PRO:HD3	2.20	0.41
1:1G:1126:U:C5	1:1G:1281:U:C6	3.08	0.41
1:1G:1127:G:O2'	1:1G:1128:C:H5'	2.20	0.41
1:1G:1382:C:O2'	24:3L:35:A:N7	2.51	0.41
3:22:9:GLY:HA3	14:5A:49:HIS:HA	2.03	0.41
5:42:96:PRO:HA	5:42:117:ASP:CG	2.44	0.41
13:4A:56:LEU:HD23	13:4A:56:LEU:HA	1.78	0.41
20:BA:75:ASN:O	20:BA:79:ARG:HB2	2.19	0.41
20:BA:92:LEU:HA	20:BA:92:LEU:HD23	1.79	0.41
24:3L:36:C:O2'	24:3L:37:G:H8	2.02	0.41
26:14:142:G:H5"	26:14:1598:C:O2'	2.19	0.41
26:14:374:A:C2	26:14:401:A:C4	3.08	0.41
26:14:495:G:N3	47:A5:61:ASN:ND2	2.67	0.41
26:14:654(C):G:H22	26:14:654(R):C:C1'	2.27	0.41
26:14:853:G:H2'	26:14:854:G:C8	2.54	0.41
26:14:992:C:OP1	45:85:47:TYR:OH	2.35	0.41
26:14:1291:C:H2'	26:14:1292:U:C6	2.56	0.41
26:14:1337:G:H2'	26:14:1338:G:C8	2.52	0.41
26:14:2130:U:O2'	26:14:2158:A:N6	2.53	0.41
26:14:2459:A:C5	26:14:2460:U:C5	3.09	0.41
29:19:43:ARG:N	29:19:43:ARG:CD	2.83	0.41
29:19:246:PRO:HD2	29:19:255:LYS:HD3	2.02	0.41
35:69:82:ARG:O	35:69:89:TYR:HD2	2.03	0.41
40:35:1:MET:HB2	40:35:5:ASP:OD2	2.19	0.41
44:75:121:ILE:O	44:75:124:ASP:HB2	2.20	0.41
45:85:86:ALA:HB2	45:85:116:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:H5:3:ARG:HB2	54:H5:59:VAL:C	2.45	0.41
1:13:134:A:H61	16:7I:25:ARG:NH1	2.18	0.41
1:13:408:A:H2'	1:13:409:G:O4'	2.20	0.41
1:13:467:G:H3'	1:13:467:G:OP2	2.19	0.41
1:13:713:G:H2'	1:13:714:G:C8	2.55	0.41
1:13:824:C:H4'	8:7E:1:MET:HB2	2.01	0.41
1:13:924:C:O2'	1:13:1502:A:N6	2.53	0.41
1:13:1100:C:H3'	63:13:2235:HOH:O	2.19	0.41
1:13:1157:A:O2'	1:13:1158:C:H5"	2.20	0.41
4:3E:162:LEU:HA	4:3E:165:MET:CB	2.50	0.41
7:6E:35:LYS:H	7:6E:35:LYS:HG3	1.68	0.41
8:7E:80:ILE:H	8:7E:80:ILE:HG12	1.54	0.41
10:1I:19:SER:O	10:1I:23:ILE:HG13	2.21	0.41
10:1I:47:PHE:CE1	14:5I:37:PHE:HE2	2.39	0.41
12:3I:8:ASN:HA	12:3I:11:VAL:HG23	2.02	0.41
15:6I:57:LEU:HA	15:6I:57:LEU:HD23	1.85	0.41
22:1K:35:I:H8	22:1K:35:I:OP1	2.03	0.41
26:1H:500:G:H22	26:1H:502:A:H3'	1.86	0.41
26:1H:918:A:O2'	27:16:96:G:N2	2.50	0.41
26:1H:1174:A:C8	26:1H:1175:U:H4'	2.55	0.41
26:1H:1182:A:H2'	26:1H:1183:G:O4'	2.20	0.41
26:1H:1263:U:C4	26:1H:1264:G:C6	3.07	0.41
26:1H:1437:C:C2	26:1H:1438:U:C5	3.08	0.41
26:1H:1696:G:C6	26:1H:1697:G:C4	3.08	0.41
26:1H:2114:A:N1	26:1H:2171:A:H2	2.17	0.41
26:1H:2505:G:H2'	26:1H:2576:G:O6	2.20	0.41
26:1H:2725:A:C4	26:1H:2727:G:C8	3.08	0.41
28:71:41:VAL:HG22	28:71:216:THR:HG22	2.02	0.41
31:31:34:TRP:CA	40:78:6:LEU:HD12	2.50	0.41
33:51:54:ARG:HH21	33:51:62:LYS:HG2	1.85	0.41
33:51:141:VAL:H	33:51:141:VAL:HG23	1.59	0.41
35:61:75:LEU:HD11	35:61:105:HIS:ND1	2.35	0.41
36:38:26:LEU:HA	36:38:112:LEU:HA	2.02	0.41
41:88:2:LEU:HB3	41:88:69:PHE:CE1	2.55	0.41
48:F8:68:ARG:O	48:F8:68:ARG:HG3	2.19	0.41
49:G8:5:MET:HE3	49:G8:32:PRO:HG3	2.01	0.41
49:G8:19:LYS:HE2	49:G8:19:LYS:HB3	1.60	0.41
51:I8:23:VAL:HG13	51:I8:38:VAL:CG2	2.50	0.41
52:J8:83:GLU:C	52:J8:85:LEU:N	2.78	0.41
55:M8:14:ILE:HG22	55:M8:21:VAL:HB	2.01	0.41
1:1G:277:C:OP1	17:8A:41:LYS:HE3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:426:G:OP1	4:32:36:ARG:NH2	2.49	0.41
1:1G:596:C:H2'	1:1G:597:G:H8	1.85	0.41
1:1G:984:C:H2'	1:1G:985:C:H6	1.84	0.41
1:1G:1004:A:C2	1:1G:1024:G:C8	3.08	0.41
1:1G:1055:A:H5"	1:1G:1056:U:OP2	2.19	0.41
1:1G:1133:G:C2	1:1G:1134:G:C4	3.08	0.41
1:1G:1414:U:H2'	1:1G:1415:G:H8	1.83	0.41
1:1G:1453:G:H2'	20:BA:39:LYS:NZ	2.35	0.41
1:1G:1465:C:H2'	1:1G:1466:C:O4'	2.21	0.41
5:42:148:VAL:HG13	5:42:152:ARG:HE	1.84	0.41
7:62:62:PHE:HD1	7:62:124:LEU:HD21	1.85	0.41
7:62:142:GLU:OE1	7:62:142:GLU:N	2.53	0.41
9:82:22:GLY:HA3	9:82:60:ASP:OD2	2.20	0.41
11:2A:109:VAL:HG12	18:9A:86:VAL:HG22	2.03	0.41
19:AA:14:HIS:CE1	19:AA:15:LEU:HG	2.54	0.41
20:BA:60:GLU:HG3	20:BA:85:MET:HE1	2.02	0.41
26:14:142:G:H2'	26:14:143:C:C6	2.55	0.41
26:14:282:A:C6	26:14:284:U:C2	3.08	0.41
26:14:533:G:H2'	26:14:534:U:O4'	2.20	0.41
26:14:860:U:C2	26:14:2268:A:C8	3.08	0.41
26:14:1252:G:C1'	45:85:33:ARG:HH11	2.33	0.41
26:14:1425:G:O2'	26:14:1426:G:H5'	2.19	0.41
26:14:1447:G:H1'	26:14:1545(A):A:H1'	2.03	0.41
26:14:1461:G:H2'	26:14:1462:C:C6	2.56	0.41
26:14:1636:C:P	63:14:4124:HOH:O	2.78	0.41
26:14:1814:G:C6	26:14:1815:A:C6	3.08	0.41
26:14:2028:U:H2'	26:14:2029:G:O4'	2.20	0.41
26:14:2057:A:H2'	26:14:2058:A:C8	2.56	0.41
26:14:2392:A:C8	40:35:61:ARG:HD2	2.55	0.41
26:14:2652:C:N4	26:14:2668:G:H22	2.18	0.41
27:1J:1:U:C4	27:1J:2:C:N4	2.87	0.41
27:1J:72:G:O2'	27:1J:104:A:N6	2.52	0.41
27:1J:115:G:H8	27:1J:115:G:OP2	2.03	0.41
28:79:213:TYR:OH	28:79:223:ARG:NH1	2.53	0.41
29:19:37:LEU:N	29:19:37:LEU:HD12	2.35	0.41
30:29:7:VAL:HG12	30:29:8:LYS:N	2.35	0.41
30:29:65:GLY:N	30:29:73:GLU:OE2	2.54	0.41
31:39:18:ARG:HE	31:39:18:ARG:C	2.29	0.41
31:39:52:LYS:HA	31:39:56:GLU:OE2	2.21	0.41
31:39:164:ARG:HA	31:39:175:THR:OG1	2.21	0.41
52:F5:53:VAL:O	52:F5:54:ALA:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:M5:22:VAL:HG11	59:M5:58:ILE:HG12	2.02	0.41
1:13:672:U:H2'	1:13:673:G:C8	2.55	0.41
1:13:919:A:O2'	1:13:920:U:H5'	2.20	0.41
1:13:965:A:C2	1:13:969:A:C2	3.07	0.41
1:13:1148:U:H2'	1:13:1149:C:O4'	2.21	0.41
1:13:1286:A:H8	1:13:1287:A:H4'	1.83	0.41
11:2I:50:TYR:CD2	11:2I:54:ARG:HB2	2.56	0.41
16:7I:36:ILE:O	16:7I:36:ILE:HG13	2.20	0.41
23:2K:52:C:H2'	23:2K:53:G:O4'	2.20	0.41
26:1H:182:A:H2'	26:1H:183:C:C6	2.56	0.41
26:1H:280:C:C2	26:1H:361:G:N2	2.88	0.41
26:1H:1063:G:H21	37:48:91:PRO:HG3	1.84	0.41
26:1H:1319:G:C6	26:1H:1320:C:N4	2.88	0.41
26:1H:1818:U:O4	29:11:154:LYS:HE3	2.21	0.41
26:1H:2243:U:H2'	26:1H:2244:U:C6	2.55	0.41
26:1H:2590:A:H2'	26:1H:2591:C:C6	2.54	0.41
30:21:70:ALA:O	30:21:71:GLY:C	2.63	0.41
35:61:135:GLU:N	35:61:135:GLU:CD	2.77	0.41
38:58:128:HIS:HB2	38:58:129:PRO:HD2	2.02	0.41
42:98:87:TYR:HD1	42:98:90:ARG:HD2	1.86	0.41
44:B8:95:ARG:HA	44:B8:95:ARG:HD2	1.83	0.41
47:E8:16:LYS:O	47:E8:19:LEU:HB2	2.21	0.41
50:H8:44:PHE:CE2	50:H8:86:VAL:HG11	2.56	0.41
55:M8:37:SER:C	55:M8:39:CYS:N	2.78	0.41
1:1G:111:G:O6	1:1G:330:C:N4	2.53	0.41
1:1G:637:G:H2'	1:1G:638:G:C8	2.56	0.41
1:1G:669:U:H2'	1:1G:670:G:H8	1.85	0.41
1:1G:685:G:N2	1:1G:686:U:C4	2.89	0.41
1:1G:800:G:H8	1:1G:800:G:O5'	2.03	0.41
1:1G:838:G:H1	1:1G:842:C:H1'	1.85	0.41
1:1G:1342:C:H2'	1:1G:1343:G:C8	2.55	0.41
2:12:17:PHE:CZ	2:12:44:LEU:HA	2.56	0.41
2:12:97:TRP:CZ2	2:12:101:MET:HB2	2.53	0.41
3:22:47:LEU:HA	3:22:47:LEU:HD12	1.86	0.41
4:32:31:CYS:HB2	4:32:33:MET:N	2.35	0.41
4:32:177:ASP:HB3	4:32:182:LYS:HG3	2.03	0.41
9:82:27:THR:HG1	9:82:31:GLN:C	2.23	0.41
9:82:58:HIS:C	9:82:59:PHE:HD1	2.29	0.41
12:3A:84:LEU:HB3	12:3A:104:VAL:HG21	2.02	0.41
22:1L:6:C:N3	22:1L:68:G:N2	2.51	0.41
26:14:370:G:H4'	26:14:371:A:OP2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:565:C:H4'	26:14:1253:A:C6	2.55	0.41
26:14:813:U:H2'	26:14:814:C:C6	2.56	0.41
26:14:1000:A:C6	26:14:1001:A:C6	3.08	0.41
26:14:1709:U:H2'	26:14:1710:C:C6	2.56	0.41
26:14:1992:G:C8	26:14:1992:G:O5'	2.74	0.41
27:1J:87:G:H3'	27:1J:88:C:H6	1.84	0.41
29:19:132:PRO:HD3	29:19:190:TYR:CZ	2.54	0.41
30:29:9:VAL:CG1	44:75:8:LYS:HZ1	2.33	0.41
31:39:34:TRP:CE2	40:35:8:PRO:HD3	2.55	0.41
32:49:60:LEU:HD13	32:49:68:PRO:CB	2.50	0.41
33:59:153:LYS:C	33:59:155:SER:H	2.29	0.41
35:69:27:ARG:HB2	52:F5:71:TYR:OH	2.20	0.41
39:25:120:GLU:OE2	39:25:122:LEU:HD21	2.19	0.41
40:35:57:THR:O	40:35:59:LEU:N	2.53	0.41
40:35:71:VAL:HG12	40:35:72:PRO:HD3	2.02	0.41
40:35:122:PRO:CB	40:35:141:ALA:HB1	2.51	0.41
42:55:79:LEU:O	42:55:79:LEU:HD22	2.20	0.41
44:75:23:ARG:HB2	44:75:24:PRO:HD2	2.02	0.41
45:85:91:ASP:OD1	45:85:96:ALA:HB2	2.21	0.41
46:95:27:ALA:HB1	46:95:61:VAL:HG21	2.02	0.41
47:A5:23:LEU:HD12	47:A5:23:LEU:HA	1.74	0.41
48:B5:27:THR:HA	48:B5:79:ALA:O	2.20	0.41
52:F5:64:ALA:HA	52:F5:67:ILE:HG12	2.03	0.41
59:M5:23:VAL:HG23	59:M5:48:PHE:O	2.19	0.41
1:13:452:A:H1'	16:7I:72:ARG:HH12	1.85	0.41
1:13:562:C:H1'	12:3I:15:ARG:HD2	2.03	0.41
1:13:1098:C:C2	1:13:1099:G:C8	3.09	0.41
1:13:1313:U:P	19:AI:6:LYS:HB3	2.61	0.41
22:1K:58:G:C2'	22:1K:59:A:H5'	2.50	0.41
26:1H:273(A):G:C2	26:1H:364:C:N3	2.89	0.41
26:1H:336:C:H5"	49:G8:6:HIS:CD2	2.55	0.41
26:1H:993:G:C4	26:1H:994:C:C5	3.08	0.41
26:1H:1075:C:H6	26:1H:1075:C:O5'	2.03	0.41
26:1H:1515:C:H2'	26:1H:1516:U:C6	2.56	0.41
26:1H:1537:C:H42	26:1H:1538:G:H21	1.68	0.41
26:1H:1628:G:H2'	26:1H:1629:U:C6	2.55	0.41
26:1H:1906:G:C8	26:1H:1929:G:H2'	2.55	0.41
26:1H:2138:C:H3'	26:1H:2139:C:H5"	2.03	0.41
26:1H:2259:G:C2	26:1H:2282:G:C6	3.09	0.41
26:1H:2439:A:H5'	26:1H:2439:A:C8	2.56	0.41
26:1H:2675:A:H4'	39:68:29:ASN:ND2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2818:G:N2	26:1H:2829:C:C2	2.89	0.41
26:1H:2851:A:C6	26:1H:2852:G:C5	3.09	0.41
30:21:52:LEU:HD12	30:21:52:LEU:HA	1.76	0.41
30:21:61:ARG:HB3	30:21:61:ARG:HH11	1.86	0.41
31:31:103:LYS:HA	31:31:106:ARG:HG3	2.02	0.41
36:38:59:ILE:HG13	36:38:60:ARG:N	2.36	0.41
46:D8:35:LEU:HA	46:D8:35:LEU:HD23	1.63	0.41
49:G8:52:SER:O	49:G8:53:PRO:C	2.64	0.41
50:H8:153:SER:C	50:H8:155:LEU:H	2.27	0.41
54:L8:28:LEU:HA	54:L8:33:GLN:OE1	2.20	0.41
55:M8:36:CYS:SG	55:M8:38:LYS:N	2.93	0.41
57:O8:27:LYS:O	57:O8:28:ARG:HD2	2.20	0.41
1:1G:191:G:C6	1:1G:192:U:C4	3.09	0.41
1:1G:711:G:O2'	1:1G:712:A:H5'	2.20	0.41
1:1G:811:C:N4	63:1G:1908:HOH:O	2.52	0.41
1:1G:1153:C:P	10:1A:13:HIS:HE1	2.44	0.41
2:12:63:MET:CG	2:12:225:ALA:HB1	2.45	0.41
2:12:145:LEU:CD1	2:12:149:LEU:HD12	2.50	0.41
7:62:38:LEU:HD22	7:62:42:ILE:HD11	2.03	0.41
23:2L:52:C:H2'	23:2L:53:G:O4'	2.21	0.41
24:3L:74:A:H5"	24:3L:74:A:C8	2.56	0.41
26:14:539:G:H1	26:14:554:U:H3	1.67	0.41
26:14:574:C:H1'	26:14:2055:C:C6	2.56	0.41
26:14:620:G:H4'	26:14:621:A:H5"	2.03	0.41
26:14:1684:C:C2	26:14:1705:G:N2	2.88	0.41
26:14:1786:A:H4'	26:14:1787:A:OP2	2.20	0.41
26:14:1788:C:C2	26:14:1789:A:C8	3.08	0.41
26:14:2027:G:O6	63:14:3775:HOH:O	2.22	0.41
26:14:2104:G:N2	26:14:2186:G:C2	2.89	0.41
26:14:2132:U:O2	28:79:8:ARG:NH1	2.54	0.41
27:1J:19:G:H2'	27:1J:20:C:O4'	2.20	0.41
31:39:28:ILE:O	31:39:29:ASN:C	2.63	0.41
32:49:64:THR:HB	32:49:94:LEU:HD21	2.03	0.41
35:69:2:LYS:HB3	35:69:2:LYS:HE3	1.86	0.41
35:69:140:LEU:HD13	35:69:140:LEU:HA	1.83	0.41
38:15:38:HIS:HE2	38:15:50:ASP:CG	2.28	0.41
39:25:111:PHE:HB3	39:25:114:ILE:HG13	2.02	0.41
40:35:146:VAL:HG13	40:35:147:LEU:N	2.36	0.41
45:85:97:ASP:OD1	45:85:98:LEU:N	2.53	0.41
46:95:98:GLU:OE2	46:95:100:ARG:NH1	2.53	0.41
50:D5:29:TYR:HA	50:D5:33:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:474:G:H2'	1:13:475:G:C8	2.55	0.41
1:13:828:A:C5	1:13:859:A:C8	3.08	0.41
1:13:1002:G:C6	1:13:1003:G:C4	3.08	0.41
1:13:1207:G:H2'	1:13:1208:C:H6	1.86	0.41
1:13:1284:C:H3'	1:13:1285:A:C8	2.55	0.41
1:13:1329:A:OP1	13:4I:29:ARG:HB2	2.20	0.41
3:2E:14:ILE:O	3:2E:16:ARG:N	2.54	0.41
5:4E:6:PHE:CE1	5:4E:36:ASP:HB3	2.56	0.41
6:5E:67:MET:HE3	6:5E:67:MET:HB2	1.70	0.41
7:6E:65:ALA:HB2	7:6E:128:ALA:HB2	2.02	0.41
8:7E:27:PRO:HG3	8:7E:58:TYR:CE1	2.56	0.41
8:7E:33:GLU:HA	8:7E:36:LEU:HD12	2.03	0.41
17:8I:67:LYS:O	17:8I:68:ARG:HB3	2.20	0.41
20:BI:89:ARG:HH21	20:BI:104:LEU:HD11	1.86	0.41
22:1K:50:G:O2'	22:1K:51:G:H5'	2.20	0.41
26:1H:38:A:H2'	26:1H:39:C:C6	2.54	0.41
26:1H:198:C:H5'	26:1H:2244:U:OP1	2.20	0.41
26:1H:274:G:H8	26:1H:274:G:H3'	1.85	0.41
26:1H:340:A:H2'	26:1H:341:G:O4'	2.20	0.41
26:1H:459:U:H2'	26:1H:460:A:H8	1.85	0.41
26:1H:810:U:P	63:1H:4165:HOH:O	2.78	0.41
26:1H:881:G:H3'	26:1H:882:G:O4'	2.20	0.41
26:1H:1547:C:H2'	26:1H:1548:C:H6	1.86	0.41
26:1H:2147:G:N7	26:1H:2148:G:H1'	2.35	0.41
26:1H:2272:U:H5"	26:1H:2273:A:OP1	2.20	0.41
26:1H:2374:C:H42	26:1H:2379:G:H1	1.68	0.41
26:1H:2805:G:N2	26:1H:2807:G:C2	2.89	0.41
29:11:68:LYS:HD3	29:11:70:TRP:CH2	2.55	0.41
30:21:111:ARG:H	30:21:111:ARG:HG2	1.34	0.41
30:21:120:TRP:CE3	30:21:155:LYS:HG2	2.55	0.41
31:31:133:ASN:HA	31:31:162:LEU:HD22	2.02	0.41
43:A8:111:GLU:O	43:A8:112:PHE:HD1	2.03	0.41
45:C8:90:VAL:HG22	46:D8:39:LEU:HB3	2.01	0.41
46:D8:52:VAL:O	46:D8:52:VAL:CG2	2.68	0.41
47:E8:1:MET:HE3	47:E8:62:HIS:HB3	2.03	0.41
47:E8:71:VAL:HA	47:E8:107:LEU:HD12	2.03	0.41
48:F8:9:LEU:HB2	48:F8:29:TRP:O	2.20	0.41
49:G8:49:VAL:HG21	49:G8:55:TYR:CE2	2.55	0.41
50:H8:104:PHE:HA	50:H8:139:VAL:HB	2.01	0.41
53:K8:37:PHE:H	53:K8:37:PHE:HD1	1.68	0.41
56:N8:3:LYS:HZ3	56:N8:3:LYS:HG3	1.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:246:A:C4	1:1G:279:A:N6	2.89	0.41
1:1G:578:C:O4'	1:1G:729:A:H1'	2.20	0.41
1:1G:718:G:H5'	11:2A:117:ASN:ND2	2.36	0.41
1:1G:720:C:H5"	18:9A:52:PRO:HA	2.02	0.41
1:1G:779:C:H2'	1:1G:780:A:O4'	2.20	0.41
1:1G:1053:G:O6	1:1G:1199:U:H2'	2.19	0.41
1:1G:1157:A:O4'	1:1G:1158:C:C5	2.74	0.41
1:1G:1324:A:C4'	1:1G:1362:C:H4'	2.50	0.41
2:12:61:LEU:HD23	2:12:68:ILE:HD11	2.01	0.41
2:12:144:ARG:HH21	2:12:148:TYR:HD2	1.67	0.41
6:52:10:LEU:HB2	6:52:59:TYR:HB3	2.02	0.41
7:62:62:PHE:HA	7:62:124:LEU:HD23	2.02	0.41
9:82:107:ARG:H	9:82:107:ARG:HG3	1.55	0.41
13:4A:36:LYS:HD2	13:4A:59:TYR:OH	2.21	0.41
16:7A:53:VAL:O	16:7A:57:ARG:HG3	2.19	0.41
20:BA:23:ARG:HH22	20:BA:27:LYS:HD2	1.86	0.41
22:1L:23:G:O2'	22:1L:24:A:OP1	2.28	0.41
24:3L:71:U:H2'	24:3L:72:G:O4'	2.20	0.41
26:14:59:U:O2'	26:14:73:A:H2'	2.20	0.41
26:14:142:G:H2'	26:14:143:C:H6	1.84	0.41
26:14:189:G:P	52:F5:39:LYS:HE2	2.61	0.41
26:14:309:G:O3'	49:C5:18:GLY:HA3	2.21	0.41
26:14:1085:A:O2'	26:14:1086:A:OP1	2.34	0.41
26:14:1378:A:O2'	26:14:1379:A:H3'	2.21	0.41
26:14:1525:G:C2	26:14:1526:G:C4	3.08	0.41
26:14:1894:C:O2'	26:14:1895:C:H5'	2.21	0.41
26:14:2005:A:H5"	63:14:4066:HOH:O	2.19	0.41
26:14:2426:A:H3'	26:14:2427:C:H5'	2.02	0.41
26:14:2584:U:C5	26:14:2585:U:C5	3.08	0.41
26:14:2761:G:H1'	33:59:143:GLN:OE1	2.21	0.41
26:14:2850:A:C2	26:14:2851:A:C4	3.08	0.41
27:1J:11:C:OP2	27:1J:12:C:N4	2.33	0.41
27:1J:13:A:O2'	27:1J:14:U:H3'	2.21	0.41
28:79:10:LEU:HD21	28:79:34:THR:OG1	2.20	0.41
29:19:65:ILE:HG21	29:19:65:ILE:HD13	1.77	0.41
32:49:53:LEU:HD12	32:49:53:LEU:O	2.21	0.41
33:59:30:LYS:HB2	33:59:79:VAL:CA	2.49	0.41
33:59:149:ARG:HE	33:59:154:PRO:HB2	1.85	0.41
35:69:107:VAL:HG12	35:69:109:ILE:HG23	2.03	0.41
40:35:19:VAL:HG13	40:35:21:ARG:N	2.36	0.41
42:55:80:PHE:O	42:55:84:ALA:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A5:45:TYR:CZ	47:A5:49:LYS:HD2	2.55	0.41
49:C5:18:GLY:C	49:C5:20:TYR:N	2.78	0.41
52:F5:46:LEU:HD12	52:F5:46:LEU:HA	1.80	0.41
58:L5:18:PHE:CD1	58:L5:18:PHE:C	2.98	0.41
1:13:510:A:P	63:13:1933:HOH:O	2.74	0.41
1:13:645:C:P	63:13:1985:HOH:O	2.79	0.41
1:13:672:U:H2'	1:13:673:G:H8	1.86	0.41
1:13:703:G:O5'	1:13:703:G:C8	2.73	0.41
1:13:1001:G:C6	1:13:1002:G:N7	2.89	0.41
1:13:1038:C:C2'	1:13:1039:C:H5'	2.51	0.41
1:13:1139:G:H22	1:13:1143:G:H1	1.69	0.41
2:1E:156:LYS:HD3	2:1E:156:LYS:HA	1.73	0.41
5:4E:103:GLY:C	5:4E:106:PRO:HD2	2.45	0.41
13:4I:15:VAL:HB	13:4I:41:PRO:O	2.21	0.41
17:8I:48:GLU:O	17:8I:50:LYS:HG3	2.19	0.41
17:8I:100:LYS:HB3	17:8I:101:ARG:NH1	2.34	0.41
26:1H:244:A:H4'	40:78:74:GLU:HB2	2.03	0.41
26:1H:363:G:O2'	26:1H:363(A):A:H5'	2.19	0.41
26:1H:425:G:H2'	26:1H:426:C:H6	1.86	0.41
26:1H:517:C:OP1	56:N8:16:ARG:NH2	2.47	0.41
26:1H:573:G:O2'	26:1H:574:C:H3'	2.20	0.41
26:1H:686:G:N2	26:1H:788:A:H61	2.19	0.41
26:1H:888:C:H5"	26:1H:889:C:H5	1.80	0.41
26:1H:1120:G:H2'	26:1H:1121:C:O4'	2.21	0.41
26:1H:2003:G:H2'	26:1H:2004:G:O5'	2.21	0.41
26:1H:2176:A:O2'	26:1H:2177:C:H5'	2.20	0.41
26:1H:2688:U:H1'	26:1H:2721:A:N6	2.35	0.41
26:1H:2795:G:H2'	26:1H:2798:C:H5"	2.02	0.41
26:1H:2830:G:H8	26:1H:2830:G:H5"	1.85	0.41
27:16:24:G:N1	27:16:56:G:N2	2.69	0.41
32:41:113:ARG:HD3	32:41:140:ILE:O	2.21	0.41
34:18:22:GLN:HG3	36:38:139:VAL:O	2.20	0.41
40:78:121:LYS:C	40:78:123:LEU:H	2.29	0.41
42:98:118:GLU:OE1	42:98:118:GLU:HA	2.20	0.41
49:G8:12:THR:O	49:G8:75:ILE:HB	2.20	0.41
49:G8:42:VAL:CG2	49:G8:43:ASN:N	2.84	0.41
50:H8:46:LYS:HE2	50:H8:47:VAL:HG23	2.02	0.41
50:H8:62:PRO:O	50:H8:63:ASP:CG	2.64	0.41
55:M8:35:VAL:O	55:M8:35:VAL:HG12	2.21	0.41
1:1G:87:A:C6	1:1G:88:C:N3	2.89	0.41
1:1G:147:G:H1	1:1G:175:C:N4	2.14	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:531:U:H4'	1:1G:532:A:OP1	2.21	0.41
1:1G:849:C:H2'	1:1G:850:U:O4'	2.21	0.41
1:1G:1086:U:O5'	1:1G:1086:U:H6	2.03	0.41
1:1G:1250:A:OP1	9:82:67:GLY:N	2.50	0.41
1:1G:1272:G:H8	1:1G:1272:G:O5'	2.04	0.41
1:1G:1298:C:O2'	1:1G:1299:A:OP2	2.36	0.41
3:22:134:ILE:HD13	3:22:134:ILE:HA	1.83	0.41
4:32:13:ARG:HD2	4:32:38:TYR:O	2.21	0.41
4:32:46:LYS:O	4:32:47:ARG:C	2.63	0.41
9:82:48:GLU:HG2	9:82:101:PHE:CE2	2.55	0.41
11:2A:21:ILE:HA	11:2A:30:VAL:HG12	2.02	0.41
11:2A:57:THR:HG22	11:2A:59:TYR:N	2.34	0.41
11:2A:86:GLY:H	11:2A:112:THR:HG23	1.86	0.41
13:4A:54:VAL:O	13:4A:58:GLU:HB3	2.21	0.41
16:7A:74:LEU:HD23	16:7A:74:LEU:HA	1.68	0.41
25:4L:19:C:OP1	63:4L:201:HOH:O	2.22	0.41
26:14:492:A:H2'	26:14:493:G:O4'	2.20	0.41
26:14:513:A:C2	26:14:514:A:C5	3.09	0.41
26:14:635:C:H2'	26:14:636:G:O4'	2.21	0.41
26:14:817:C:H2'	26:14:818:G:O4'	2.20	0.41
26:14:971:C:H3'	26:14:971:C:C6	2.56	0.41
26:14:1060:U:O2	26:14:1088:A:H8	2.04	0.41
26:14:1164:G:C2	26:14:1165:U:C2	3.09	0.41
26:14:1187:G:P	63:14:3798:HOH:O	2.75	0.41
26:14:2016:U:H1'	56:J5:6:VAL:HG13	2.03	0.41
26:14:2257:U:O2'	26:14:2258:C:H5'	2.21	0.41
26:14:2324:C:H5"	26:14:2325:G:H5'	2.02	0.41
26:14:2581:G:C6	26:14:2610:C:C2	3.09	0.41
27:1J:3:C:H42	27:1J:117:G:H22	1.69	0.41
27:1J:63:G:H2'	27:1J:64:C:C6	2.55	0.41
27:1J:66:A:C2	27:1J:108:C:C4	3.09	0.41
29:19:68:LYS:HB3	29:19:70:TRP:CZ3	2.56	0.41
29:19:263:ARG:HE	29:19:263:ARG:HB2	1.44	0.41
31:39:25:PRO:C	31:39:27:GLU:N	2.77	0.41
31:39:110:LEU:O	31:39:114:VAL:HG23	2.21	0.41
32:49:96:ARG:HE	32:49:96:ARG:HB3	1.35	0.41
32:49:180:PHE:HB3	32:49:181:ARG:HH21	1.85	0.41
35:69:121:LYS:HD2	35:69:121:LYS:HA	1.83	0.41
40:35:57:THR:O	40:35:58:THR:C	2.64	0.41
40:35:78:PRO:HA	40:35:110:TYR:CD2	2.56	0.41
43:65:39:ILE:HD13	43:65:39:ILE:HA	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:75:113:LYS:HA	44:75:113:LYS:HD2	1.86	0.41
45:85:74:LEU:HD13	45:85:79:PHE:HB2	2.03	0.41
49:C5:49:VAL:O	49:C5:49:VAL:HG22	2.19	0.41
51:E5:21:LEU:HD11	51:E5:41:ARG:HH11	1.85	0.41
1:13:67:C:O2'	1:13:171:A:O2'	2.33	0.41
1:13:200:G:H2'	1:13:201:C:O4'	2.20	0.41
1:13:221:C:H2'	1:13:222:U:C6	2.54	0.41
1:13:450:G:N7	1:13:481:G:C6	2.89	0.41
1:13:600:C:OP1	8:7E:97:VAL:HG12	2.20	0.41
1:13:1228:C:H5'	13:4I:115:LYS:H	1.86	0.41
1:13:1240:U:OP2	7:6E:116:ALA:N	2.54	0.41
1:13:1525:G:O6	63:13:1968:HOH:O	2.21	0.41
2:1E:223:ILE:C	2:1E:225:ALA:N	2.78	0.41
3:2E:17:ASP:O	3:2E:54:ARG:NH2	2.54	0.41
8:7E:77:GLU:HG2	8:7E:78:GLN:O	2.20	0.41
19:AI:42:PRO:O	19:AI:44:MET:N	2.54	0.41
22:1K:75:C:H42	26:1H:2508:G:H5'	1.85	0.41
23:2K:2:G:C2	23:2K:3:C:C5	3.09	0.41
24:3K:54:G:H2'	24:3K:55:U:H5'	2.02	0.41
26:1H:270(G):C:H2'	26:1H:270(H):C:H6	1.82	0.41
26:1H:515:A:H1'	26:1H:581:C:H1'	2.03	0.41
26:1H:795:C:H2'	26:1H:796:C:C6	2.55	0.41
26:1H:1346:G:H2'	26:1H:1347:G:H8	1.85	0.41
26:1H:1497:U:H3'	26:1H:1498:C:H6	1.85	0.41
26:1H:1530:G:C5	26:1H:1531:C:C4	3.09	0.41
26:1H:1732:A:H2'	26:1H:1733:G:C8	2.56	0.41
26:1H:1826:G:H2'	26:1H:1827:C:O4'	2.21	0.41
26:1H:2747:G:O6	26:1H:2755:C:H5"	2.20	0.41
29:11:129:ASN:O	29:11:193:VAL:HG13	2.20	0.41
37:48:75:SER:O	37:48:79:ARG:HG2	2.21	0.41
38:58:86:PRO:HG2	38:58:89:LYS:HB2	2.03	0.41
41:88:104:PHE:O	41:88:105:GLU:C	2.64	0.41
44:B8:107:ASP:H	44:B8:110:ILE:CG2	2.34	0.41
45:C8:50:ARG:NH2	46:D8:72:VAL:HG23	2.34	0.41
54:L8:26:LEU:HD21	54:L8:46:ASN:CB	2.51	0.41
1:1G:110:C:H2'	1:1G:111:G:O4'	2.19	0.41
1:1G:243:A:C2	1:1G:245:C:C2	3.09	0.41
1:1G:272:C:C2	1:1G:273:A:C8	3.08	0.41
1:1G:1312:G:H2'	1:1G:1313:U:O4'	2.21	0.41
1:1G:1386:G:O2'	1:1G:1387:G:H5'	2.21	0.41
6:52:19:LEU:HD21	6:52:59:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:62:143:ARG:NH1	24:3L:42:G:OP1	2.54	0.41
11:2A:69:ALA:O	11:2A:70:LYS:C	2.62	0.41
12:3A:26:ALA:O	12:3A:27:LEU:HB3	2.19	0.41
13:4A:53:VAL:O	13:4A:56:LEU:N	2.54	0.41
13:4A:96:LEU:O	13:4A:110:ARG:NE	2.52	0.41
15:6A:32:LEU:HD13	15:6A:62:GLN:HB3	2.03	0.41
16:7A:56:ALA:O	16:7A:60:LEU:HG	2.20	0.41
16:7A:74:LEU:O	16:7A:79:VAL:HG23	2.21	0.41
25:4L:14:A:H2'	25:4L:14:A:N3	2.35	0.41
26:14:235:U:H2'	26:14:236:C:C6	2.56	0.41
26:14:263:C:H2'	26:14:264:C:O4'	2.20	0.41
26:14:341:G:C4	26:14:342:G:C8	3.09	0.41
26:14:410:G:H2'	63:14:3742:HOH:O	2.21	0.41
26:14:419:C:H2'	26:14:420:C:O4'	2.20	0.41
26:14:1044:G:H2'	26:14:1045:A:H5"	2.03	0.41
26:14:1059:G:H3'	26:14:1060:U:H2'	2.01	0.41
26:14:1068:G:O2'	26:14:1096:A:O2'	2.37	0.41
26:14:1332:G:N2	26:14:1609:A:H2'	2.35	0.41
26:14:2085:C:H2'	26:14:2086:U:O4'	2.21	0.41
26:14:2319:G:N1	26:14:2334:G:OP2	2.53	0.41
26:14:2557:G:H2'	26:14:2558:C:H6	1.85	0.41
29:19:92:ILE:HD12	29:19:104:TYR:CD1	2.55	0.41
30:29:56:PRO:HD2	30:29:58:ARG:CZ	2.51	0.41
31:39:31:HIS:O	31:39:31:HIS:CG	2.74	0.41
31:39:176:LEU:HD12	31:39:176:LEU:HA	1.78	0.41
33:59:149:ARG:HA	33:59:162:ILE:HG21	2.03	0.41
35:69:63:ALA:O	35:69:66:GLU:HB2	2.21	0.41
35:69:65:ALA:O	35:69:69:LYS:N	2.53	0.41
38:15:34:LEU:HD12	38:15:34:LEU:HA	1.81	0.41
39:25:44:LYS:O	39:25:45:GLU:HG3	2.21	0.41
40:35:88:LEU:HB2	40:35:91:PHE:HE1	1.85	0.41
42:55:25:ALA:O	42:55:26:LYS:C	2.64	0.41
45:85:17:ILE:HG23	45:85:39:LEU:HD12	2.03	0.41
45:85:91:ASP:C	45:85:93:LYS:H	2.28	0.41
49:C5:40:GLU:N	49:C5:40:GLU:OE2	2.54	0.41
49:C5:43:ASN:HB3	49:C5:64:GLU:HA	2.02	0.41
49:C5:57:GLN:CD	49:C5:57:GLN:H	2.28	0.41
52:F5:17:SER:HB2	63:F5:203:HOH:O	2.20	0.41
53:G5:37:PHE:O	53:G5:41:ILE:HG12	2.21	0.41
1:13:27:G:C5	1:13:557:G:C2	3.09	0.41
1:13:34:C:H2'	1:13:35:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:131:C:O2	1:13:131:C:H2'	2.21	0.41
1:13:134:A:H1'	1:13:325:A:C5	2.56	0.41
1:13:148:G:C2	1:13:149:A:C5	3.08	0.41
1:13:246:A:C6	1:13:279:A:C2	3.09	0.41
1:13:376:G:H5"	16:7I:5:ARG:HD2	2.02	0.41
1:13:454:C:H3'	1:13:455:C:H5	1.82	0.41
1:13:509:A:OP2	63:13:1965:HOH:O	2.21	0.41
1:13:606:G:O2'	1:13:632:A:N6	2.47	0.41
1:13:651:C:H2'	1:13:652:U:C6	2.56	0.41
1:13:1068:G:N7	1:13:1094:G:H2'	2.36	0.41
1:13:1084:G:C5	1:13:1085:U:C4	3.08	0.41
1:13:1099:G:H2'	1:13:1100:C:C6	2.56	0.41
1:13:1103:C:OP1	63:13:1969:HOH:O	2.22	0.41
1:13:1190:G:H5"	3:2E:176:HIS:CE1	2.56	0.41
1:13:1408:A:C5	1:13:1409:C:C5	3.09	0.41
2:1E:20:GLU:O	2:1E:40:HIS:HD2	2.04	0.41
2:1E:98:LEU:HB2	2:1E:101:MET:HG3	2.01	0.41
3:2E:11:ARG:O	3:2E:14:ILE:N	2.52	0.41
4:3E:82:ALA:O	4:3E:89:THR:HA	2.19	0.41
5:4E:11:ILE:HG12	5:4E:31:LEU:HB3	2.02	0.41
15:6I:26:GLU:H	15:6I:26:GLU:HG2	1.31	0.41
15:6I:74:ASP:CG	15:6I:77:ARG:HB2	2.46	0.41
15:6I:82:ILE:O	15:6I:85:LEU:N	2.49	0.41
17:8I:53:LEU:HB3	17:8I:82:MET:HE1	2.03	0.41
19:AI:6:LYS:HA	19:AI:6:LYS:HD2	1.73	0.41
19:AI:41:VAL:HG12	19:AI:44:MET:CB	2.43	0.41
20:BI:45:GLN:HG3	20:BI:91:LEU:HD22	2.02	0.41
22:1K:9:A:H61	22:1K:23:G:H3'	1.86	0.41
24:3K:57:C:H2'	24:3K:58:G:H8	1.84	0.41
26:1H:35:G:H2'	26:1H:36:G:O4'	2.20	0.41
26:1H:140:A:C8	26:1H:1408:C:O2'	2.70	0.41
26:1H:270(V):G:H2'	26:1H:270(W):G:O4'	2.21	0.41
26:1H:415:A:H2'	26:1H:416:C:O4'	2.19	0.41
26:1H:447:A:C8	26:1H:473:G:C6	3.09	0.41
26:1H:448:U:O4	26:1H:583:G:H1'	2.21	0.41
26:1H:501:A:O5'	26:1H:501:A:H8	2.04	0.41
26:1H:695:G:OP1	26:1H:1380:G:O2'	2.38	0.41
26:1H:729:G:C4	26:1H:1775:U:C2	3.08	0.41
26:1H:911:A:H2'	41:88:9:TYR:OH	2.20	0.41
26:1H:1027:A:C2	26:1H:2488:A:H5'	2.56	0.41
26:1H:1045:A:H1'	26:1H:1047:G:C2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1437:C:H2'	26:1H:1438:U:C6	2.55	0.41
26:1H:1494:A:H2'	26:1H:1495:A:C8	2.56	0.41
26:1H:1625:C:H5"	26:1H:1626:G:OP2	2.21	0.41
26:1H:1644:C:H2'	26:1H:1645:G:H5'	2.03	0.41
26:1H:1686:C:H2'	26:1H:1687:G:O4'	2.20	0.41
26:1H:1697:G:OP2	26:1H:1698:A:O2'	2.20	0.41
26:1H:1820:U:O2	29:11:202:LYS:HB3	2.20	0.41
26:1H:1830:C:C2'	26:1H:1831:G:H5'	2.51	0.41
26:1H:2138:C:O2	26:1H:2154:G:N2	2.54	0.41
26:1H:2275:C:O2'	41:88:85:LYS:HA	2.21	0.41
26:1H:2311:A:H1'	32:41:88:ILE:HD13	2.03	0.41
26:1H:2766:G:C2	26:1H:2767:C:C6	3.08	0.41
27:16:24:G:C2	27:16:56:G:N2	2.89	0.41
28:71:46:LYS:O	28:71:210:ARG:HB2	2.21	0.41
29:11:26:LYS:C	29:11:29:PRO:HD3	2.45	0.41
29:11:29:PRO:HG2	29:11:30:GLU:HA	2.03	0.41
29:11:71:ASP:OD1	29:11:71:ASP:N	2.49	0.41
30:21:49:LEU:HD12	30:21:49:LEU:HA	1.67	0.41
32:41:154:GLY:C	32:41:155:MET:HE2	2.46	0.41
33:51:107:VAL:HG21	33:51:152:ARG:HB2	2.03	0.41
35:61:33:ARG:HB2	35:61:35:LEU:CD2	2.50	0.41
35:61:124:GLY:H	35:61:142:VAL:CG2	2.32	0.41
34:28:3:LEU:O	34:28:7:ARG:HB2	2.21	0.41
39:68:7:TYR:CZ	39:68:44:LYS:HG3	2.56	0.41
40:78:100:LEU:HD12	40:78:105:LEU:HD13	2.03	0.41
45:C8:112:ARG:HG2	45:C8:112:ARG:HH11	1.86	0.41
46:D8:16:PRO:HA	46:D8:96:ILE:HG22	2.03	0.41
48:F8:47:PHE:O	48:F8:48:LYS:C	2.63	0.41
50:H8:108:PRO:CB	50:H8:113:ALA:H	2.34	0.41
50:H8:109:ALA:H	50:H8:112:ARG:CG	2.34	0.41
53:K8:33:MET:O	53:K8:37:PHE:HD1	2.03	0.41
56:N8:36:CYS:SG	56:N8:37:LYS:N	2.93	0.41
57:O8:35:GLU:HB2	57:O8:51:GLU:HB2	2.02	0.41
58:P8:15:THR:HG22	58:P8:16:HIS:CE1	2.56	0.41
1:1G:176:C:O2'	1:1G:177:C:H5'	2.20	0.41
1:1G:189:U:O2'	17:8A:63:ARG:NH2	2.54	0.41
1:1G:257:G:H2'	1:1G:258:G:H8	1.86	0.41
1:1G:706:A:H1'	11:2A:31:THR:HG21	2.02	0.41
1:1G:842:C:H4'	1:1G:848:C:C2	2.55	0.41
1:1G:918:A:H2'	1:1G:919:A:O4'	2.21	0.41
1:1G:991:U:C5	1:1G:1212:U:H1'	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:998(A):C:H2'	1:1G:999:U:O4'	2.21	0.41
1:1G:1250:A:H4'	9:82:68:GLY:N	2.31	0.41
1:1G:1354:C:H3'	1:1G:1354:C:C6	2.55	0.41
2:12:74:LYS:O	2:12:78:GLN:HB2	2.20	0.41
2:12:83:MET:HE1	2:12:234:PRO:HG2	2.03	0.41
2:12:140:HIS:O	2:12:143:GLU:HB3	2.21	0.41
2:12:174:VAL:HG13	2:12:184:VAL:HG11	2.03	0.41
2:12:189:ASP:HB3	2:12:203:GLY:O	2.21	0.41
4:32:13:ARG:HB3	4:32:38:TYR:O	2.21	0.41
4:32:15:GLU:OE2	4:32:63:LYS:HD3	2.20	0.41
4:32:88:VAL:HG22	5:42:96:PRO:HB2	2.03	0.41
5:42:93:PRO:HG2	8:72:105:ARG:NE	2.36	0.41
8:72:97:VAL:HA	8:72:100:ILE:HD11	2.02	0.41
9:82:83:ARG:HA	9:82:86:VAL:HB	2.02	0.41
10:1A:54:PHE:CE2	10:1A:55:LYS:HG3	2.56	0.41
13:4A:81:LEU:HD21	13:4A:88:ARG:NH2	2.36	0.41
16:7A:43:LYS:HD3	16:7A:48:TRP:CE2	2.55	0.41
17:8A:95:TYR:C	17:8A:97:SER:H	2.28	0.41
19:AA:74:PHE:CD1	19:AA:74:PHE:N	2.89	0.41
20:BA:50:GLU:HA	20:BA:100:ILE:HG21	2.02	0.41
22:1L:76:C:H2'	22:1L:77:A:C8	2.56	0.41
26:14:28:A:O2'	26:14:583:G:H5'	2.21	0.41
26:14:51:G:N3	26:14:119:A:C2	2.89	0.41
26:14:64:A:O3'	48:B5:71:GLY:HA3	2.21	0.41
26:14:139:G:N2	26:14:141:A:N1	2.67	0.41
26:14:447:A:C8	26:14:473:G:C6	3.08	0.41
26:14:680:G:C8	63:14:4042:HOH:O	2.71	0.41
26:14:686:G:OP1	58:L5:11:LYS:HE2	2.21	0.41
26:14:789:A:H3'	63:14:3778:HOH:O	2.21	0.41
26:14:829:A:N7	26:14:2247:A:O2'	2.46	0.41
26:14:835:A:N6	26:14:836:G:C6	2.88	0.41
26:14:875:G:N2	26:14:903:C:C2	2.89	0.41
26:14:1000:A:N6	26:14:1155:A:C8	2.89	0.41
26:14:1011:G:O2'	26:14:1013:C:O4'	2.32	0.41
26:14:1022:G:N2	26:14:1142(A):A:H2	2.13	0.41
26:14:1063:G:C2	26:14:1076:C:C2	3.08	0.41
26:14:1154:G:OP1	45:85:58:ARG:HD3	2.20	0.41
26:14:1366:A:C2	26:14:1367:A:H1'	2.56	0.41
26:14:1420:U:HO2'	26:14:1421:G:P	2.44	0.41
26:14:1668:A:H4'	26:14:1669:A:O5'	2.21	0.41
26:14:1716:U:H1'	26:14:1746:G:N2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1973:G:H2'	26:14:1974:C:H6	1.86	0.41
26:14:2640:G:H8	26:14:2640:G:O5'	2.03	0.41
26:14:2720:U:N3	26:14:2873:A:C2	2.85	0.41
26:14:2853:C:H2'	26:14:2854:G:H8	1.86	0.41
27:1J:15:A:H1'	27:1J:109:G:C4	2.55	0.41
27:1J:29:A:OP2	43:65:31:SER:HB2	2.20	0.41
29:19:146:GLU:OE2	29:19:151:LYS:N	2.52	0.41
29:19:213:ARG:HA	29:19:213:ARG:HD2	1.85	0.41
30:29:10:GLY:O	30:29:24:THR:HA	2.20	0.41
30:29:111:ARG:HD2	30:29:160:TYR:CD2	2.56	0.41
31:39:134:GLY:HA2	31:39:166:ALA:HB2	2.03	0.41
31:39:152:GLU:HA	31:39:190:GLU:OE2	2.21	0.41
32:49:66:GLN:HE22	32:49:94:LEU:HA	1.86	0.41
32:49:95:ARG:HG2	32:49:96:ARG:H	1.85	0.41
32:49:117:PHE:O	32:49:117:PHE:CG	2.69	0.41
33:59:11:VAL:HB	33:59:13:LYS:HG3	2.03	0.41
33:59:58:GLU:O	33:59:62:LYS:HG3	2.21	0.41
39:25:35:VAL:HG11	39:25:103:ALA:HB3	2.03	0.41
41:45:75:THR:HG21	41:45:85:LYS:CE	2.48	0.41
42:55:75:LEU:O	42:55:75:LEU:HD22	2.20	0.41
42:55:87:TYR:HE1	42:55:117:VAL:HG13	1.86	0.41
43:65:69:VAL:O	43:65:72:ALA:HB3	2.21	0.41
47:A5:12:ILE:HG13	47:A5:42:ARG:NH1	2.36	0.41
50:D5:19:ARG:HE	50:D5:19:ARG:HB2	1.48	0.41
1:13:104:G:C2	1:13:105:G:C8	3.09	0.41
1:13:161:A:H2'	1:13:162:A:C8	2.56	0.41
1:13:438:G:H5'	4:3E:123:HIS:HB3	2.03	0.41
1:13:506:G:P	63:13:2002:HOH:O	2.79	0.41
1:13:575:G:H4'	1:13:576:G:O5'	2.21	0.41
1:13:591:U:H2'	1:13:592:G:C8	2.56	0.41
1:13:684:A:N6	1:13:685:G:C6	2.89	0.41
1:13:748:C:H4'	1:13:749:C:O5'	2.21	0.41
1:13:986:A:H2'	1:13:987:G:O4'	2.21	0.41
1:13:1131:G:H2'	1:13:1132:C:C6	2.56	0.41
1:13:1178:G:C8	1:13:1178:G:H3'	2.56	0.41
2:1E:71:VAL:HB	2:1E:164:VAL:HG13	2.03	0.41
4:3E:160:GLN:HA	4:3E:163:GLU:HB3	2.03	0.41
12:3I:97:ARG:HB2	12:3I:98:TYR:CE1	2.56	0.41
13:4I:12:ASN:HB2	13:4I:46:LYS:NZ	2.36	0.41
20:BI:14:LYS:HA	20:BI:17:ARG:HH21	1.86	0.41
24:3K:7:G:H4'	24:3K:8:U:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:99:U:C6	26:1H:102:G:C2	3.09	0.41
26:1H:449:A:N6	26:1H:450:G:C6	2.89	0.41
26:1H:453:C:H5"	63:1H:3800:HOH:O	2.21	0.41
26:1H:572:A:H5"	26:1H:573:G:OP2	2.21	0.41
26:1H:774:A:H2	26:1H:787:U:HO2'	1.68	0.41
26:1H:780:G:N2	26:1H:783:A:N6	2.62	0.41
26:1H:950:G:C6	26:1H:951:C:C4	3.09	0.41
26:1H:1079:C:O2	37:48:129:GLY:HA3	2.21	0.41
26:1H:1188:U:C4'	46:D8:79:VAL:HG22	2.50	0.41
26:1H:1466:G:H2'	26:1H:1547:C:C4	2.56	0.41
26:1H:1468:C:H2'	26:1H:1469:A:C8	2.56	0.41
26:1H:1641:A:H2'	26:1H:1642:G:O4'	2.21	0.41
26:1H:2630:G:H1	26:1H:2788:C:H42	1.69	0.41
30:21:144:ARG:HB3	30:21:145:LYS:H	1.62	0.41
37:48:111:LYS:HE2	37:48:127:ILE:CG1	2.41	0.41
44:B8:32:TYR:CE1	44:B8:76:PHE:HD2	2.38	0.41
45:C8:79:PHE:O	45:C8:79:PHE:HD1	2.03	0.41
47:E8:82:LEU:HD23	47:E8:82:LEU:HA	1.66	0.41
52:J8:23:LYS:HB3	52:J8:29:GLY:HA3	2.02	0.41
58:P8:22:MET:HE3	58:P8:22:MET:HB3	1.59	0.41
1:1G:4:U:O2	1:1G:4:U:O4'	2.39	0.41
1:1G:321:A:H62	1:1G:328:C:H1'	1.86	0.41
1:1G:451:A:OP1	1:1G:481:G:N2	2.44	0.41
1:1G:464:G:C6	1:1G:466:C:H5'	2.56	0.41
1:1G:656:C:O2	15:6A:28:GLN:NE2	2.51	0.41
1:1G:1095:U:OP2	1:1G:1108:G:N1	2.49	0.41
1:1G:1422:G:H2'	1:1G:1423:G:C8	2.54	0.41
1:1G:1481:U:H2'	1:1G:1482:G:C8	2.56	0.41
2:12:52:GLU:HG2	2:12:53:ARG:N	2.32	0.41
2:12:72:GLY:C	2:12:74:LYS:H	2.29	0.41
2:12:84:GLU:O	2:12:219:VAL:HG21	2.20	0.41
4:32:24:GLU:OE1	4:32:24:GLU:HA	2.20	0.41
4:32:116:GLN:NE2	4:32:157:LEU:HD11	2.36	0.41
6:52:5:GLU:HB3	6:52:62:TRP:NE1	2.36	0.41
15:6A:8:LYS:O	15:6A:12:ILE:HG13	2.21	0.41
26:14:290:G:H2'	26:14:291:C:O4'	2.21	0.41
26:14:339:U:H6	26:14:339:U:O5'	2.03	0.41
26:14:867:C:C5	26:14:868:U:C5	3.09	0.41
26:14:1592:C:O5'	26:14:1592:C:H6	2.04	0.41
26:14:1904:G:H2'	26:14:1905:C:O4'	2.21	0.41
26:14:2210:G:H3'	26:14:2211:G:C4	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2256:G:H2'	26:14:2257:U:O4'	2.21	0.41
27:1J:14:U:H5'	27:1J:71:C:C1'	2.50	0.41
29:19:16:MET:HG3	29:19:206:LEU:O	2.21	0.41
30:29:39:PRO:CD	30:29:45:THR:HG23	2.50	0.41
31:39:9:ILE:O	31:39:9:ILE:HG22	2.21	0.41
31:39:170:LEU:HD13	31:39:172:TRP:CE2	2.56	0.41
39:25:25:LEU:HD23	39:25:25:LEU:HA	1.71	0.41
40:35:136:GLU:O	40:35:137:LYS:C	2.63	0.41
41:45:43:THR:OG1	41:45:45:GLN:HG2	2.21	0.41
45:85:49:HIS:HA	45:85:52:ARG:HB3	2.02	0.41
49:C5:48:ALA:CB	49:C5:59:GLY:HA3	2.45	0.41
1:13:144:G:N2	1:13:179:A:H1'	2.36	0.40
1:13:243:A:H5"	1:13:244:U:H3'	2.03	0.40
1:13:321:A:N7	1:13:328:C:H6	2.19	0.40
1:13:509:A:P	63:13:1993:HOH:O	2.78	0.40
1:13:590:C:C4	1:13:591:U:C5	3.09	0.40
1:13:647:C:O2'	1:13:648:A:H5'	2.21	0.40
1:13:750:G:N3	15:6I:23:GLY:HA3	2.36	0.40
1:13:1452:C:O2'	1:13:1453:G:OP2	2.22	0.40
10:1I:8:LEU:O	10:1I:69:ASN:HA	2.21	0.40
13:4I:93:ARG:HD2	26:1H:887:A:H5'	2.03	0.40
15:6I:66:LEU:HD12	15:6I:66:LEU:HA	1.76	0.40
16:7I:74:LEU:HA	16:7I:77:ALA:HB3	2.03	0.40
22:1K:31:G:H1	22:1K:41:C:N4	2.17	0.40
22:1K:33:RSP:H6	22:1K:33:RSP:H5'	2.03	0.40
23:2K:25:U:O2	26:1H:1923:U:H5"	2.21	0.40
23:2K:37:U:H2'	23:2K:38:A:O4'	2.22	0.40
26:1H:228:A:N9	26:1H:230:U:H1'	2.37	0.40
26:1H:574:C:P	63:1H:3746:HOH:O	2.68	0.40
26:1H:978:G:C2	26:1H:986:C:C2	3.09	0.40
26:1H:1352:U:O2	26:1H:1570:A:H2	2.04	0.40
26:1H:1467:C:N3	26:1H:1525:G:N2	2.52	0.40
26:1H:1771:C:O2'	26:1H:1786:A:H8	1.85	0.40
26:1H:1945:G:C4	26:1H:1946:U:C5	3.09	0.40
26:1H:2029:G:H2'	26:1H:2031:A:OP1	2.21	0.40
26:1H:2774:C:P	63:1H:3972:HOH:O	2.78	0.40
26:1H:2846:G:C5	26:1H:2847:U:C4	3.08	0.40
29:11:39:LYS:HB2	29:11:39:LYS:HE2	1.88	0.40
37:48:54:PRO:HD2	37:48:72:PRO:CB	2.51	0.40
40:78:63:PRO:HB2	59:Q8:30:ARG:NH2	2.17	0.40
41:88:21:THR:HG21	41:88:100:GLY:C	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:B8:48:ILE:O	44:B8:63:VAL:HA	2.21	0.40
53:K8:17:SER:CB	53:K8:67:LYS:HE3	2.48	0.40
1:1G:328:C:H4'	1:1G:329:A:C5'	2.50	0.40
1:1G:602:A:H2'	1:1G:603:U:O4'	2.22	0.40
1:1G:693:G:H2'	1:1G:694:A:C8	2.56	0.40
1:1G:867:G:H2'	1:1G:868:C:H6	1.86	0.40
1:1G:888:G:HO2'	1:1G:1488:G:HO2'	1.65	0.40
1:1G:994:A:N7	1:1G:1216:G:H4'	2.36	0.40
1:1G:1294:G:H2'	1:1G:1295:G:C8	2.55	0.40
1:1G:1446:A:OP1	1:1G:1446:A:H4'	2.21	0.40
2:12:30:ARG:HB2	2:12:46:LYS:HE2	2.03	0.40
2:12:80:ILE:HD13	2:12:212:GLN:HA	2.02	0.40
3:22:44:GLU:HA	3:22:52:LEU:HD11	2.04	0.40
5:42:74:GLY:HA3	5:42:116:THR:OG1	2.21	0.40
6:52:9:VAL:HA	6:52:59:TYR:O	2.22	0.40
7:62:50:ILE:HB	7:62:58:PRO:HG3	2.03	0.40
17:8A:82:MET:HA	17:8A:85:VAL:HG23	2.02	0.40
23:2L:38:A:H2'	23:2L:39:A:C8	2.55	0.40
26:14:456:C:C2	48:B5:69:TYR:CE2	3.09	0.40
26:14:1204:A:H2	26:14:1241:A:N1	2.19	0.40
26:14:1246:A:OP2	40:35:15:ARG:HD3	2.20	0.40
26:14:1936:A:C8	26:14:1940:U:O2	2.74	0.40
26:14:2076:U:O5'	26:14:2076:U:H6	2.04	0.40
28:79:13:LYS:HD2	28:79:32:LEU:CD2	2.51	0.40
28:79:213:TYR:CD1	28:79:221:SER:HB2	2.56	0.40
29:19:3:VAL:CG1	29:19:17:THR:HB	2.51	0.40
33:59:9:ILE:HB	33:59:49:VAL:HB	2.03	0.40
33:59:152:ARG:H	33:59:152:ARG:HG3	1.57	0.40
35:69:29:TYR:C	35:69:32:PRO:HD2	2.46	0.40
35:69:129:THR:HA	35:69:136:VAL:O	2.21	0.40
40:35:47:ASP:OD1	40:35:49:ARG:NE	2.39	0.40
41:45:29:PHE:HB3	41:45:65:PHE:CD2	2.56	0.40
44:75:13:ARG:H	44:75:13:ARG:HD2	1.85	0.40
50:D5:5:LEU:O	50:D5:59:LEU:HA	2.21	0.40
50:D5:108:PRO:HB3	50:D5:142:SER:HA	2.03	0.40
58:L5:19:ARG:HG2	58:L5:19:ARG:HH11	1.84	0.40
1:13:347:G:H2'	1:13:348:G:O4'	2.20	0.40
1:13:457:C:H6	1:13:458:C:C5	2.38	0.40
1:13:663:A:H2'	1:13:664:G:O4'	2.21	0.40
1:13:790:A:C6	1:13:791:G:C6	3.09	0.40
1:13:1024:G:H5'	1:13:1025:U:OP2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1399:C:C4	1:13:1401:G:C2	3.10	0.40
6:5E:23:LYS:O	6:5E:26:ILE:HB	2.20	0.40
7:6E:15:ASP:HB3	7:6E:19:GLY:H	1.85	0.40
13:4I:3:ARG:NE	13:4I:9:ILE:HD11	2.36	0.40
16:7I:5:ARG:HH21	16:7I:22:THR:HG23	1.85	0.40
16:7I:71:ARG:HG3	16:7I:72:ARG:N	2.36	0.40
16:7I:75:ARG:CZ	16:7I:75:ARG:HB2	2.51	0.40
18:9I:45:SER:C	18:9I:47:THR:N	2.80	0.40
20:BI:26:ASN:HB2	20:BI:71:THR:OG1	2.20	0.40
26:1H:59:U:O2'	26:1H:73:A:H2'	2.20	0.40
26:1H:598:G:H1'	40:78:12:ALA:HB2	2.03	0.40
26:1H:875:G:N2	26:1H:903:C:C2	2.90	0.40
26:1H:881:G:C4	26:1H:882:G:H1'	2.56	0.40
26:1H:1045:A:H4'	26:1H:1047:G:N9	2.35	0.40
26:1H:1355:G:O5'	26:1H:1355:G:H8	2.05	0.40
26:1H:1468:C:O2'	26:1H:1469:A:H5'	2.21	0.40
26:1H:2205:C:H2'	26:1H:2206:C:H6	1.86	0.40
26:1H:2274:A:C5	26:1H:2276:G:C8	3.10	0.40
26:1H:2313:C:C2'	26:1H:2314:C:H5'	2.51	0.40
26:1H:2667:C:H2'	26:1H:2668:G:O4'	2.21	0.40
26:1H:2735:G:O2'	26:1H:2736:G:H5'	2.21	0.40
26:1H:2875:C:H2'	26:1H:2876:G:O4'	2.21	0.40
27:16:117:G:C6	27:16:118:G:N7	2.90	0.40
30:21:31:CYS:SG	30:21:51:PHE:HD1	2.44	0.40
31:31:34:TRP:CH2	40:78:8:PRO:HB3	2.56	0.40
32:41:37:VAL:HG21	32:41:103:LEU:HG	2.03	0.40
33:51:8:PRO:HG2	33:51:69:ARG:NH2	2.36	0.40
36:38:100:ASN:HA	36:38:101:PRO:HA	1.88	0.40
37:48:128:ALA:HB1	37:48:132:ARG:CB	2.51	0.40
38:58:13:TRP:O	38:58:135:PRO:HD2	2.20	0.40
42:98:22:ARG:HG2	42:98:69:ASP:HB3	2.02	0.40
43:A8:106:ARG:H	43:A8:106:ARG:HG3	1.68	0.40
47:E8:59:VAL:HG12	47:E8:60:ASN:N	2.36	0.40
50:H8:98:MET:O	50:H8:125:LEU:HA	2.21	0.40
56:N8:41:PRO:HA	56:N8:42:PRO:HD3	1.86	0.40
59:Q8:23:VAL:O	59:Q8:23:VAL:HG12	2.20	0.40
59:Q8:33:ASN:O	59:Q8:36:LYS:HB2	2.20	0.40
1:1G:821:G:H4'	63:1G:2039:HOH:O	2.20	0.40
1:1G:1008:C:N4	1:1G:1021:G:H22	2.19	0.40
1:1G:1017:G:H2'	1:1G:1018:C:C6	2.56	0.40
1:1G:1206:G:O2'	3:22:193:TYR:HA	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1340:A:C2	1:1G:1341:U:C2	3.09	0.40
4:32:89:THR:H	5:42:97:GLY:HA3	1.86	0.40
5:42:136:MET:HA	5:42:139:LEU:HD12	2.04	0.40
12:3A:27:LEU:HD22	12:3A:27:LEU:C	2.46	0.40
12:3A:33:ARG:N	12:3A:85:ILE:HG22	2.36	0.40
20:BA:63:ILE:HG21	20:BA:81:LYS:HG3	2.04	0.40
26:14:224:G:N7	26:14:420:C:H4'	2.37	0.40
26:14:654(A):A:H5"	26:14:654(B):C:OP2	2.21	0.40
26:14:817:C:O2'	26:14:839:U:OP1	2.32	0.40
26:14:948:G:C6	26:14:949:C:C4	3.09	0.40
26:14:1472:A:H2'	26:14:1473:G:O4'	2.21	0.40
26:14:1509:C:H5'	26:14:1510:A:N9	2.36	0.40
26:14:1607:C:H4'	26:14:1608:A:O5'	2.20	0.40
26:14:2177:C:H5"	28:79:213:TYR:HB2	2.02	0.40
26:14:2520:C:N4	26:14:2542:A:H62	2.09	0.40
26:14:2873:A:C8	42:55:5:LYS:HA	2.57	0.40
27:1J:63:G:C2	27:1J:64:C:C2	3.09	0.40
28:79:19:ILE:HG12	28:79:223:ARG:HG2	2.03	0.40
30:29:18:ASP:OD2	44:75:33:LYS:NZ	2.39	0.40
30:29:87:GLU:C	30:29:89:ASP:H	2.29	0.40
31:39:113:ALA:HB1	31:39:186:ILE:HG21	2.02	0.40
50:D5:193:GLU:H	50:D5:194:PRO:CD	2.28	0.40
53:G5:53:LEU:O	53:G5:57:ILE:HG13	2.21	0.40
1:13:7:G:H5'	1:13:298:A:O4'	2.21	0.40
1:13:115:G:H4'	1:13:116:A:O5'	2.20	0.40
1:13:124:G:H2'	1:13:125:U:O4'	2.21	0.40
1:13:247:G:O6	1:13:278:G:N1	2.53	0.40
1:13:1150:U:O2	10:1I:39:PRO:HG2	2.21	0.40
1:13:1521:G:H2'	1:13:1522:U:C6	2.56	0.40
3:2E:188:LEU:HD11	3:2E:195:VAL:HG13	2.04	0.40
5:4E:80:ILE:HG13	8:7E:104:ARG:NH2	2.37	0.40
5:4E:142:LEU:HD23	5:4E:142:LEU:HA	1.87	0.40
6:5E:100:ASN:HB2	18:9I:28:GLU:HA	2.04	0.40
24:3K:73:C:C4	24:3K:74:A:C8	3.10	0.40
26:1H:6:A:C2	26:1H:7:G:C4	3.09	0.40
26:1H:10:G:O2'	26:1H:2801:A:N3	2.43	0.40
26:1H:94:G:H2'	26:1H:95:G:O4'	2.21	0.40
26:1H:459:U:H4'	58:P8:40:TRP:CZ3	2.57	0.40
26:1H:706:A:OP2	63:1H:3982:HOH:O	2.22	0.40
26:1H:811:U:H3'	40:78:22:GLY:HA2	2.03	0.40
26:1H:944:G:H5"	26:1H:945:A:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:972:G:OP2	26:1H:973:A:O2'	2.32	0.40
26:1H:1359:A:H2	26:1H:1372:U:O4	2.05	0.40
26:1H:1382:G:C2'	26:1H:1383:C:H5'	2.52	0.40
26:1H:1525:G:C2	26:1H:1526:G:C4	3.10	0.40
26:1H:1864:U:C2'	26:1H:1869:G:H5"	2.51	0.40
26:1H:2101:G:C6	26:1H:2102:U:N3	2.89	0.40
26:1H:2271:G:C6	26:1H:2272:U:C4	3.10	0.40
26:1H:2298:A:H2'	26:1H:2299:G:O4'	2.22	0.40
26:1H:2468:G:O4'	26:1H:2468:G:N3	2.53	0.40
27:16:6:C:H2'	27:16:7:G:O4'	2.21	0.40
28:71:163:PHE:HE2	28:71:199:HIS:HD1	1.69	0.40
30:21:21:VAL:HG12	30:21:185:LYS:HD3	2.03	0.40
30:21:92:THR:HG22	30:21:93:VAL:N	2.36	0.40
30:21:197:ILE:HD11	30:21:199:ARG:HE	1.85	0.40
32:41:59:GLU:O	32:41:63:ILE:HD13	2.21	0.40
33:51:62:LYS:HE3	33:51:62:LYS:HB2	1.77	0.40
33:51:87:LEU:HB2	33:51:131:VAL:HG13	2.03	0.40
33:51:125:VAL:HG12	33:51:128:PRO:HA	2.03	0.40
37:48:99:ILE:HG13	37:48:138:VAL:HG11	2.02	0.40
38:58:33:LEU:HD23	38:58:38:HIS:HD2	1.87	0.40
38:58:134:ARG:N	38:58:134:ARG:HD3	2.35	0.40
40:78:114:ILE:HD11	40:78:130:PHE:CD2	2.57	0.40
53:K8:66:GLU:HG2	53:K8:67:LYS:N	2.34	0.40
59:Q8:36:LYS:HB3	59:Q8:41:ILE:HG22	2.02	0.40
1:1G:28:G:C6	1:1G:29:G:C5	3.09	0.40
1:1G:439:A:H2'	1:1G:440:A:O4'	2.21	0.40
1:1G:488:C:H6	1:1G:488:C:O5'	2.05	0.40
1:1G:513:C:H2'	1:1G:514:C:H6	1.87	0.40
1:1G:940:C:H2'	1:1G:941:G:H8	1.85	0.40
1:1G:976:G:C8	1:1G:1358:U:C2	3.10	0.40
1:1G:1003:G:H21	1:1G:1005:A:P	2.45	0.40
1:1G:1014:A:H2'	1:1G:1015:A:C5	2.56	0.40
1:1G:1021:G:H8	1:1G:1021:G:OP2	2.04	0.40
1:1G:1157:A:O4'	1:1G:1158:C:C6	2.75	0.40
1:1G:1170:A:N6	1:1G:1171:G:N3	2.69	0.40
1:1G:1216:G:H2'	1:1G:1217:C:H6	1.85	0.40
1:1G:1265:G:H2'	1:1G:1266:G:O4'	2.21	0.40
1:1G:1325:C:H5"	21:1B:17:THR:HG21	2.03	0.40
2:12:178:ARG:NH2	8:72:74:PRO:HG3	2.36	0.40
18:9A:41:LYS:HD3	18:9A:41:LYS:O	2.22	0.40
19:AA:16:LEU:HA	19:AA:19:VAL:HG23	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:4L:11:U:H6	25:4L:11:U:H2'	1.65	0.40
26:14:7:G:N2	26:14:8:A:C4	2.89	0.40
26:14:298:G:H5"	26:14:299:A:OP1	2.22	0.40
26:14:456:C:C2	48:B5:69:TYR:HE2	2.39	0.40
26:14:840:C:H42	26:14:938:G:H1	1.68	0.40
26:14:911:A:H2'	41:45:9:TYR:OH	2.21	0.40
26:14:996:A:N3	26:14:997:G:C8	2.89	0.40
26:14:1069:A:H2	26:14:1094:U:O2	2.04	0.40
26:14:1615:C:C5	26:14:1617:C:C4	3.10	0.40
26:14:1807:G:O6	63:14:3899:HOH:O	2.21	0.40
26:14:2355:C:C4'	51:E5:36:ILE:HD11	2.51	0.40
26:14:2475:C:H5"	26:14:2476:A:H5"	2.03	0.40
26:14:2817:G:C4	26:14:2830:G:N2	2.89	0.40
28:79:39:GLU:HB2	28:79:178:ALA:HB3	2.02	0.40
29:19:158:ALA:O	29:19:159:ALA:C	2.65	0.40
40:35:88:LEU:HD12	40:35:88:LEU:O	2.20	0.40
41:45:101:ARG:HG3	41:45:102:VAL:N	2.35	0.40
43:65:38:GLN:HB3	43:65:47:THR:CG2	2.52	0.40
43:65:110:LEU:HD13	43:65:112:PHE:CE1	2.57	0.40
46:95:22:VAL:HG22	46:95:23:GLU:N	2.37	0.40
46:95:82:ARG:O	46:95:83:ARG:HD2	2.21	0.40
1:13:143:A:H5'	1:13:144:G:H5'	2.04	0.40
1:13:163:C:H6	1:13:163:C:H5"	1.87	0.40
1:13:186(C):G:H2'	1:13:186(D):C:C6	2.56	0.40
1:13:691:G:H2'	1:13:692:U:C6	2.56	0.40
1:13:715:A:H2'	1:13:716:A:C8	2.57	0.40
1:13:827:U:C5	1:13:872:A:N1	2.89	0.40
1:13:942:G:C2	1:13:943:U:C6	3.10	0.40
2:1E:216:SER:C	2:1E:218:ALA:H	2.28	0.40
3:2E:32:LEU:CD1	3:2E:59:ARG:HD3	2.51	0.40
3:2E:184:TYR:CD1	3:2E:184:TYR:C	2.98	0.40
7:6E:8:GLU:HG2	7:6E:8:GLU:H	1.70	0.40
9:8E:98:PRO:C	9:8E:100:GLY:N	2.80	0.40
19:AI:22:LEU:HA	19:AI:25:LYS:HB3	2.04	0.40
26:1H:214:G:OP1	26:1H:214:G:H4'	2.21	0.40
26:1H:234:C:C2	26:1H:235:U:C5	3.10	0.40
26:1H:517:C:OP2	56:N8:13:LYS:HE2	2.21	0.40
26:1H:829:A:N7	26:1H:2247:A:O2'	2.47	0.40
26:1H:1174:A:N9	26:1H:1178:C:N4	2.70	0.40
26:1H:1406:U:H2'	26:1H:1407:C:H6	1.83	0.40
26:1H:1496:A:H2	63:1H:3748:HOH:O	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1496:A:H5'	26:1H:1497:U:OP1	2.22	0.40
26:1H:2542:A:H4'	26:1H:2543:G:C8	2.56	0.40
26:1H:2741:A:H2'	26:1H:2742:C:O4'	2.21	0.40
26:1H:2820:A:C4	42:98:4:LEU:HD11	2.57	0.40
31:31:64:ILE:HA	31:31:64:ILE:HD13	1.80	0.40
32:41:67:LYS:CE	55:M8:6:HIS:CE1	3.05	0.40
35:61:100:ALA:O	35:61:104:GLN:N	2.53	0.40
40:78:75:ILE:H	40:78:75:ILE:CD1	2.29	0.40
44:B8:131:ALA:HA	44:B8:134:GLU:CD	2.46	0.40
46:D8:30:GLY:N	46:D8:61:VAL:O	2.54	0.40
46:D8:35:LEU:N	46:D8:57:VAL:O	2.49	0.40
49:G8:74:PRO:O	49:G8:82:PRO:HD2	2.20	0.40
50:H8:124:ILE:HD12	50:H8:125:LEU:H	1.86	0.40
50:H8:153:SER:HB3	50:H8:167:PRO:HB3	2.02	0.40
57:O8:9:LEU:HD13	57:O8:11:LEU:HD22	2.03	0.40
57:O8:25:LYS:HB2	59:Q8:34:TRP:HD1	1.83	0.40
1:1G:38:G:H4'	1:1G:547:A:N6	2.37	0.40
1:1G:224:C:H2'	1:1G:225:C:C6	2.57	0.40
1:1G:407:G:C2	1:1G:436:C:C2	3.09	0.40
1:1G:789:U:H2'	1:1G:791:G:N7	2.36	0.40
1:1G:947:G:H2'	1:1G:948:C:O4'	2.21	0.40
1:1G:981:U:H5"	1:1G:982:U:H5"	2.04	0.40
1:1G:1055:A:H62	1:1G:1200:C:H42	1.70	0.40
1:1G:1191:A:OP1	3:22:4:LYS:HE2	2.22	0.40
1:1G:1199:U:H4'	10:1A:54:PHE:CD1	2.56	0.40
1:1G:1239:A:H4'	1:1G:1240:U:C5'	2.52	0.40
6:52:25:ILE:HD12	6:52:82:ARG:HD2	2.03	0.40
17:8A:44:ALA:HA	17:8A:71:PHE:O	2.21	0.40
22:1L:1:G:O2'	22:1L:2:C:P	2.80	0.40
22:1L:10:G:H8	22:1L:10:G:O5'	2.04	0.40
26:14:22:C:H2'	26:14:23:G:O4'	2.21	0.40
26:14:82:G:N1	26:14:103:A:OP2	2.47	0.40
26:14:273(F):C:N3	26:14:363:G:C6	2.90	0.40
26:14:864:G:C6	26:14:865:C:N4	2.89	0.40
26:14:914:C:N3	26:14:915:C:H1'	2.36	0.40
26:14:993:G:C5	26:14:994:C:C5	3.10	0.40
26:14:1360:A:N6	26:14:1371:G:O2'	2.52	0.40
26:14:1498:C:O4'	26:14:1577:C:H4'	2.21	0.40
26:14:1784:A:H5"	63:14:4037:HOH:O	2.21	0.40
26:14:2228:G:C5	26:14:2229:C:C4	3.09	0.40
26:14:2467:C:H4'	41:45:123:HIS:CD2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2756:U:O4'	26:14:2757:A:H8	2.04	0.40
26:14:2820:A:C6	42:55:4:LEU:HD11	2.56	0.40
32:49:107:LEU:HD23	32:49:107:LEU:HA	1.81	0.40
32:49:151:ALA:HB3	32:49:153:ARG:NH1	2.37	0.40
33:59:152:ARG:C	33:59:154:PRO:HD3	2.46	0.40
35:69:133:HIS:HB2	35:69:134:PRO:HD3	2.03	0.40
41:45:51:ARG:HA	41:45:54:MET:HE3	2.02	0.40
49:C5:12:THR:HB	49:C5:75:ILE:HD12	2.03	0.40
52:F5:85:LEU:CA	52:F5:87:PRO:HD2	2.52	0.40
53:G5:32:LEU:HD12	53:G5:32:LEU:C	2.46	0.40
58:L5:10:ARG:O	58:L5:14:LYS:HG3	2.20	0.40
1:13:151:A:H2'	1:13:151:A:N3	2.35	0.40
1:13:160:A:C6	1:13:344:A:N7	2.89	0.40
1:13:195:A:N7	1:13:196:A:N1	2.69	0.40
1:13:881:G:P	12:3I:12:ARG:NH2	2.94	0.40
2:1E:20:GLU:HG3	2:1E:191:ASP:H	1.87	0.40
6:5E:45:LEU:HD12	6:5E:59:TYR:HD2	1.86	0.40
7:6E:59:LEU:HD23	7:6E:59:LEU:O	2.22	0.40
8:7E:95:VAL:HG13	8:7E:99:GLU:HB2	2.04	0.40
11:2I:124:LYS:HB2	11:2I:124:LYS:HE2	1.67	0.40
12:3I:37:CYS:O	12:3I:79:GLU:O	2.40	0.40
16:7I:50:LYS:HD3	16:7I:51:VAL:N	2.37	0.40
26:1H:61:G:H5'	53:K8:50:ILE:HD13	2.03	0.40
26:1H:68:G:H2'	26:1H:69:C:O4'	2.22	0.40
26:1H:365:C:H2'	26:1H:366:C:O4'	2.22	0.40
26:1H:443:A:H3'	31:31:45:ARG:NH2	2.37	0.40
26:1H:447:A:C4	26:1H:473:G:N7	2.90	0.40
26:1H:570:G:C6	26:1H:2030:A:C2	3.10	0.40
26:1H:654(C):G:N3	26:1H:654(S):G:N1	2.70	0.40
26:1H:674:G:O2'	31:31:74:ARG:HD3	2.22	0.40
26:1H:779:U:OP1	29:11:49:ILE:HG13	2.22	0.40
26:1H:998:C:H2'	26:1H:999:U:O4'	2.21	0.40
26:1H:1260:G:C6	26:1H:1261:C:C4	3.10	0.40
26:1H:2067:G:O2'	26:1H:2069:G:H5"	2.22	0.40
26:1H:2502:G:H5"	26:1H:2503:A:H5"	2.03	0.40
27:16:17:C:H2'	27:16:18:G:O4'	2.21	0.40
27:16:88:C:H2'	27:16:89:G:O4'	2.21	0.40
29:11:30:GLU:CD	29:11:63:ARG:NE	2.77	0.40
29:11:54:ARG:O	29:11:218:ARG:HD3	2.21	0.40
30:21:110:GLY:HA2	30:21:161:GLY:HA3	2.03	0.40
31:31:11:VAL:O	31:31:12:LEU:HD12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:136:ILE:O	33:51:136:ILE:HG12	2.20	0.40
35:61:62:LYS:HD2	35:61:133:HIS:CD2	2.56	0.40
40:78:83:VAL:CG1	40:78:112:LEU:HD21	2.51	0.40
41:88:32:TYR:O	41:88:105:GLU:HA	2.22	0.40
42:98:44:LEU:HD23	42:98:44:LEU:HA	1.81	0.40
44:B8:39:ARG:HG2	44:B8:40:THR:H	1.86	0.40
47:E8:14:PRO:HG2	47:E8:78:GLU:CG	2.50	0.40
49:G8:54:LYS:HB3	49:G8:54:LYS:NZ	2.36	0.40
49:G8:87:LYS:HD3	49:G8:89:PHE:HB3	2.03	0.40
59:Q8:37:SER:O	59:Q8:40:GLU:N	2.54	0.40
1:1G:4:U:O4	8:72:105:ARG:HA	2.21	0.40
1:1G:617:G:H4'	16:7A:44:THR:HB	2.03	0.40
1:1G:683:G:C6	1:1G:684:A:C6	3.10	0.40
1:1G:983:A:H3'	1:1G:983:A:N3	2.37	0.40
1:1G:1318:A:C2	19:AA:37:ARG:HD2	2.57	0.40
2:12:21:ARG:C	2:12:23:ARG:N	2.79	0.40
5:42:69:VAL:O	5:42:71:LEU:N	2.48	0.40
5:42:91:LEU:HD23	5:42:120:THR:HG22	2.03	0.40
6:52:67:MET:HB2	6:52:68:PRO:HD2	2.04	0.40
7:62:12:LEU:HD21	7:62:28:ASN:ND2	2.35	0.40
7:62:12:LEU:HD23	7:62:12:LEU:HA	1.89	0.40
7:62:145:ALA:C	7:62:147:ALA:N	2.77	0.40
10:1A:44:VAL:HG11	10:1A:46:ARG:HE	1.86	0.40
11:2A:21:ILE:HG12	11:2A:30:VAL:CG1	2.52	0.40
12:3A:66:VAL:HG11	12:3A:98:TYR:HE1	1.86	0.40
12:3A:117:ARG:HB2	12:3A:122:THR:O	2.22	0.40
21:1B:5:ASP:O	21:1B:8:THR:HG22	2.21	0.40
21:1B:6:ARG:O	21:1B:12:LYS:HG2	2.21	0.40
23:2L:44:A:H2'	23:2L:45:A:H8	1.85	0.40
26:14:337:C:H2'	26:14:338:G:O4'	2.21	0.40
26:14:341:G:C6	26:14:342:G:N7	2.90	0.40
26:14:540:G:C5	26:14:541:C:C5	3.09	0.40
26:14:878:A:C5	26:14:879:G:H1'	2.56	0.40
26:14:887:A:H5"	26:14:888:C:O4'	2.21	0.40
26:14:912:C:O2	26:14:912:C:H2'	2.20	0.40
26:14:1389:G:H2'	26:14:1390:U:O4'	2.21	0.40
26:14:1628:G:H2'	26:14:1629:U:C6	2.57	0.40
26:14:1647:G:OP2	26:14:1647:G:H3'	2.21	0.40
26:14:2062:A:N6	26:14:2503:A:H62	2.19	0.40
26:14:2111:C:H2'	26:14:2169:A:N1	2.36	0.40
26:14:2136:C:H2'	26:14:2137:C:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2404:C:O3'	40:35:77:ARG:NH2	2.53	0.40
26:14:2469:A:C2	26:14:2470:G:C5	3.10	0.40
27:1J:23:G:C2	27:1J:24:G:O6	2.75	0.40
29:19:13:ARG:HD2	29:19:16:MET:HE3	2.04	0.40
30:29:64:LYS:HE3	30:29:64:LYS:HB3	1.70	0.40
31:39:68:LYS:HD2	31:39:68:LYS:O	2.21	0.40
32:49:144:ILE:HA	32:49:148:MET:SD	2.61	0.40
35:69:138:ILE:HG12	35:69:139:GLN:N	2.36	0.40
38:15:35:ARG:HB3	38:15:42:TRP:CZ3	2.55	0.40
38:15:97:ARG:HA	38:15:100:GLU:HB2	2.04	0.40
40:35:82:GLY:HA3	40:35:115:LEU:HD11	2.03	0.40
46:95:14:VAL:HB	46:95:96:ILE:HG21	2.03	0.40
48:B5:18:TYR:O	48:B5:19:ALA:C	2.62	0.40
50:D5:97:GLU:HG2	50:D5:125:LEU:HD11	2.03	0.40
51:E5:46:LYS:HA	51:E5:47:PRO:HD3	1.86	0.40
56:J5:52:TYR:CD2	56:J5:53:ALA:N	2.90	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)
46:D8:45:THR:CG2	63:1H:4620:HOH:O[4_465]	1.38	0.82
63:1H:4955:HOH:O	63:C8:206:HOH:O[4_565]	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	235/256 (92%)	183 (78%)	47 (20%)	5 (2%)	5 26
2	1E	227/256 (89%)	171 (75%)	54 (24%)	2 (1%)	14 43
3	22	191/239 (80%)	149 (78%)	41 (22%)	1 (0%)	24 55

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	2E	203/239 (85%)	169 (83%)	33 (16%)	1 (0%)	24 55
4	32	206/209 (99%)	168 (82%)	34 (16%)	4 (2%)	6 28
4	3E	205/209 (98%)	172 (84%)	31 (15%)	2 (1%)	12 41
5	42	149/162 (92%)	132 (89%)	17 (11%)	0	100 100
5	4E	147/162 (91%)	128 (87%)	18 (12%)	1 (1%)	18 49
6	52	99/101 (98%)	93 (94%)	6 (6%)	0	100 100
6	5E	99/101 (98%)	88 (89%)	11 (11%)	0	100 100
7	62	134/156 (86%)	108 (81%)	24 (18%)	2 (2%)	8 33
7	6E	152/156 (97%)	139 (91%)	13 (9%)	0	100 100
8	72	136/138 (99%)	120 (88%)	16 (12%)	0	100 100
8	7E	136/138 (99%)	116 (85%)	20 (15%)	0	100 100
9	82	122/128 (95%)	104 (85%)	17 (14%)	1 (1%)	16 46
9	8E	124/128 (97%)	100 (81%)	22 (18%)	2 (2%)	7 32
10	1A	97/105 (92%)	79 (81%)	18 (19%)	0	100 100
10	1I	97/105 (92%)	83 (86%)	13 (13%)	1 (1%)	12 41
11	2A	111/129 (86%)	94 (85%)	16 (14%)	1 (1%)	14 43
11	2I	109/129 (84%)	94 (86%)	15 (14%)	0	100 100
12	3A	119/132 (90%)	91 (76%)	23 (19%)	5 (4%)	2 13
12	3I	120/132 (91%)	101 (84%)	19 (16%)	0	100 100
13	4A	109/126 (86%)	84 (77%)	24 (22%)	1 (1%)	14 43
13	4I	117/126 (93%)	91 (78%)	25 (21%)	1 (1%)	14 43
14	5A	55/61 (90%)	38 (69%)	15 (27%)	2 (4%)	2 16
14	5I	59/61 (97%)	48 (81%)	9 (15%)	2 (3%)	3 16
15	6A	85/89 (96%)	77 (91%)	8 (9%)	0	100 100
15	6I	85/89 (96%)	72 (85%)	13 (15%)	0	100 100
16	7A	82/88 (93%)	71 (87%)	11 (13%)	0	100 100
16	7I	81/88 (92%)	73 (90%)	8 (10%)	0	100 100
17	8A	97/105 (92%)	87 (90%)	10 (10%)	0	100 100
17	8I	98/105 (93%)	88 (90%)	10 (10%)	0	100 100
18	9A	65/88 (74%)	56 (86%)	9 (14%)	0	100 100
18	9I	65/88 (74%)	57 (88%)	6 (9%)	2 (3%)	3 18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
19	AA	56/93 (60%)	44 (79%)	12 (21%)	0	100 100
19	AI	78/93 (84%)	57 (73%)	15 (19%)	6 (8%)	1 4
20	BA	96/106 (91%)	79 (82%)	14 (15%)	3 (3%)	3 18
20	BI	96/106 (91%)	75 (78%)	17 (18%)	4 (4%)	2 13
21	1B	22/27 (82%)	16 (73%)	5 (23%)	1 (4%)	2 12
21	1F	22/27 (82%)	19 (86%)	2 (9%)	1 (4%)	2 12
28	71	130/229 (57%)	114 (88%)	16 (12%)	0	100 100
28	79	126/229 (55%)	107 (85%)	19 (15%)	0	100 100
29	11	271/276 (98%)	231 (85%)	37 (14%)	3 (1%)	11 39
29	19	271/276 (98%)	234 (86%)	37 (14%)	0	100 100
30	21	201/206 (98%)	149 (74%)	44 (22%)	8 (4%)	2 14
30	29	201/206 (98%)	145 (72%)	50 (25%)	6 (3%)	3 19
31	31	200/210 (95%)	169 (84%)	28 (14%)	3 (2%)	8 33
31	39	204/210 (97%)	152 (74%)	46 (22%)	6 (3%)	3 20
32	41	177/182 (97%)	150 (85%)	26 (15%)	1 (1%)	21 52
32	49	177/182 (97%)	142 (80%)	32 (18%)	3 (2%)	7 30
33	51	169/180 (94%)	125 (74%)	35 (21%)	9 (5%)	1 10
33	59	169/180 (94%)	108 (64%)	54 (32%)	7 (4%)	2 14
34	18	28/125 (22%)	20 (71%)	7 (25%)	1 (4%)	2 16
34	28	28/125 (22%)	23 (82%)	4 (14%)	1 (4%)	2 16
35	61	143/148 (97%)	104 (73%)	35 (24%)	4 (3%)	4 20
35	69	143/148 (97%)	109 (76%)	30 (21%)	4 (3%)	4 20
36	38	141/173 (82%)	65 (46%)	54 (38%)	22 (16%)	0 0
37	48	140/147 (95%)	75 (54%)	57 (41%)	8 (6%)	1 9
38	15	135/140 (96%)	115 (85%)	20 (15%)	0	100 100
38	58	135/140 (96%)	108 (80%)	25 (18%)	2 (2%)	8 33
39	25	120/122 (98%)	108 (90%)	11 (9%)	1 (1%)	16 46
39	68	120/122 (98%)	110 (92%)	10 (8%)	0	100 100
40	35	146/150 (97%)	95 (65%)	43 (30%)	8 (6%)	1 9
40	78	145/150 (97%)	112 (77%)	32 (22%)	1 (1%)	18 49
41	45	136/141 (96%)	98 (72%)	33 (24%)	5 (4%)	2 15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
41	88	139/141 (99%)	116 (84%)	21 (15%)	2 (1%)	9 34
42	55	116/118 (98%)	103 (89%)	13 (11%)	0	100 100
42	98	116/118 (98%)	100 (86%)	16 (14%)	0	100 100
43	65	108/112 (96%)	82 (76%)	22 (20%)	4 (4%)	2 15
43	A8	109/112 (97%)	87 (80%)	22 (20%)	0	100 100
44	75	132/146 (90%)	110 (83%)	22 (17%)	0	100 100
44	B8	134/146 (92%)	105 (78%)	29 (22%)	0	100 100
45	85	115/118 (98%)	96 (84%)	19 (16%)	0	100 100
45	C8	113/118 (96%)	93 (82%)	18 (16%)	2 (2%)	6 29
46	95	98/101 (97%)	71 (72%)	21 (21%)	6 (6%)	1 7
46	D8	99/101 (98%)	84 (85%)	15 (15%)	0	100 100
47	A5	109/113 (96%)	97 (89%)	12 (11%)	0	100 100
47	E8	110/113 (97%)	95 (86%)	15 (14%)	0	100 100
48	B5	92/96 (96%)	79 (86%)	13 (14%)	0	100 100
48	F8	93/96 (97%)	81 (87%)	11 (12%)	1 (1%)	11 39
49	C5	104/110 (94%)	66 (64%)	31 (30%)	7 (7%)	1 6
49	G8	103/110 (94%)	73 (71%)	30 (29%)	0	100 100
50	D5	198/206 (96%)	136 (69%)	54 (27%)	8 (4%)	2 14
50	H8	161/206 (78%)	123 (76%)	32 (20%)	6 (4%)	2 15
51	E5	76/85 (89%)	65 (86%)	11 (14%)	0	100 100
51	I8	79/85 (93%)	63 (80%)	15 (19%)	1 (1%)	9 36
52	F5	92/98 (94%)	81 (88%)	9 (10%)	2 (2%)	5 25
52	J8	91/98 (93%)	79 (87%)	12 (13%)	0	100 100
53	G5	64/72 (89%)	58 (91%)	5 (8%)	1 (2%)	7 32
53	K8	67/72 (93%)	57 (85%)	8 (12%)	2 (3%)	3 19
54	H5	56/60 (93%)	52 (93%)	4 (7%)	0	100 100
54	L8	56/60 (93%)	54 (96%)	2 (4%)	0	100 100
55	M8	46/71 (65%)	24 (52%)	20 (44%)	2 (4%)	2 13
56	J5	54/60 (90%)	47 (87%)	7 (13%)	0	100 100
56	N8	48/60 (80%)	42 (88%)	6 (12%)	0	100 100
57	O8	43/54 (80%)	26 (60%)	16 (37%)	1 (2%)	5 24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
58	L5	45/49 (92%)	42 (93%)	3 (7%)	0	100 100
58	P8	45/49 (92%)	43 (96%)	2 (4%)	0	100 100
59	M5	62/65 (95%)	49 (79%)	12 (19%)	1 (2%)	7 32
59	Q8	62/65 (95%)	47 (76%)	13 (21%)	2 (3%)	3 17
All	All	11677/12957 (90%)	9408 (81%)	2067 (18%)	202 (2%)	7 30

All (202) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
13	4I	12	ASN
30	21	78	LEU
30	21	83	ASP
33	51	10	PRO
34	18	25	ASP
36	38	29	TYR
36	38	37	THR
36	38	38	HIS
36	38	104	ILE
36	38	105	PRO
37	48	123	ALA
37	48	144	VAL
45	C8	93	LYS
48	F8	4	ALA
50	H8	53	ILE
50	H8	60	GLU
4	32	153	ARG
12	3A	27	LEU
12	3A	105	TYR
12	3A	106	ASP
20	BA	74	LYS
20	BA	75	ASN
31	39	28	ILE
31	39	124	LEU
33	59	86	GLU
33	59	87	LEU
40	35	36	LYS
41	45	87	LYS
49	C5	56	PRO
50	D5	53	ILE
50	D5	182	LYS
50	D5	193	GLU

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Mol	Chain	Res	Type
59	M5	34	TRP
4	3E	156	GLU
14	5I	17	LYS
18	9I	22	VAL
19	AI	41	VAL
20	BI	46	GLU
20	BI	74	LYS
30	21	60	ASN
36	38	63	LEU
36	38	67	GLY
36	38	88	ALA
34	28	18	LEU
38	58	22	THR
53	K8	47	ASN
55	M8	24	THR
2	12	9	GLU
2	12	22	LYS
4	32	34	GLU
11	2A	101	SER
13	4A	84	ILE
14	5A	17	LYS
21	1B	3	LYS
31	39	25	PRO
31	39	27	GLU
33	59	159	GLU
40	35	15	ARG
40	35	53	GLY
40	35	58	THR
40	35	108	LYS
41	45	30	GLY
46	95	78	LYS
46	95	79	VAL
49	C5	29	GLU
49	C5	57	GLN
50	D5	180	VAL
52	F5	92	LYS
9	8E	111	ARG
10	1I	57	LYS
14	5I	14	PRO
20	BI	95	ALA
21	1F	3	LYS
29	11	99	ASP

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Mol	Chain	Res	Type
30	21	82	ARG
31	31	130	ALA
33	51	13	LYS
35	61	134	PRO
36	38	21	GLN
36	38	45	LYS
36	38	46	GLN
36	38	51	LEU
36	38	89	ALA
36	38	99	SER
37	48	122	ALA
40	78	15	ARG
41	88	6	ARG
41	88	134	ARG
50	H8	6	LYS
50	H8	52	SER
55	M8	25	TYR
57	O8	32	ASN
59	Q8	35	GLN
59	Q8	36	LYS
2	12	8	LYS
7	62	145	ALA
7	62	146	GLU
30	29	51	PHE
30	29	54	GLN
33	59	126	PRO
35	69	78	THR
40	35	142	GLY
43	65	89	ARG
46	95	99	ILE
2	1E	238	LEU
19	AI	81	ARG
29	11	238	GLY
30	21	54	GLN
35	61	12	LEU
36	38	98	LYS
36	38	102	LYS
36	38	119	ALA
37	48	91	PRO
2	12	73	THR
3	22	90	GLU
9	82	56	LEU

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Mol	Chain	Res	Type
20	BA	73	HIS
30	29	71	GLY
31	39	48	THR
32	49	117	PHE
33	59	98	LEU
35	69	77	LEU
39	25	14	THR
43	65	87	PHE
46	95	44	LYS
46	95	77	ALA
49	C5	17	SER
50	D5	60	GLU
50	D5	108	PRO
50	D5	109	ALA
3	2E	12	LEU
19	AI	7	LYS
19	AI	43	GLU
30	21	118	LYS
30	21	130	GLY
32	41	117	PHE
33	51	12	PRO
33	51	84	SER
33	51	155	SER
33	51	164	TYR
36	38	62	ALA
36	38	70	GLU
36	38	120	LYS
37	48	139	VAL
38	58	96	GLU
45	C8	51	LYS
51	I8	9	SER
53	K8	43	GLN
4	32	28	SER
12	3A	28	LYS
14	5A	30	ALA
31	39	21	ALA
32	49	4	ASP
40	35	35	HIS
40	35	56	SER
41	45	59	ARG
43	65	17	ARG
43	65	62	LYS

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Mol	Chain	Res	Type
49	C5	19	LYS
49	C5	55	TYR
50	D5	191	VAL
52	F5	93	GLU
53	G5	47	ASN
4	3E	25	ARG
9	8E	112	LYS
18	9I	21	LYS
20	BI	98	PRO
31	31	25	PRO
31	31	54	ARG
33	51	137	ASP
33	51	138	LYS
33	51	153	LYS
37	48	72	PRO
50	H8	64	GLY
2	12	74	LYS
33	59	41	MET
35	69	75	LEU
41	45	23	GLY
19	AI	9	VAL
30	29	88	GLY
29	11	36	PRO
30	21	72	VAL
30	29	61	ARG
35	69	16	GLY
46	95	50	PRO
2	1E	208	ILE
5	4E	115	VAL
36	38	73	GLY
37	48	138	VAL
50	H8	111	VAL
30	29	52	LEU
33	59	169	VAL
49	C5	58	GLY
36	38	69	PRO
12	3A	63	GLY
32	49	5	VAL
35	61	34	GLY
35	61	133	HIS
41	45	78	PRO
19	AI	42	PRO

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Mol	Chain	Res	Type
4	32	29	PRO
37	48	13	PRO

5.3.2 Protein sidechains (i)

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	205/220 (93%)	153 (75%)	52 (25%)	0 3
2	1E	200/220 (91%)	140 (70%)	60 (30%)	0 1
3	22	153/188 (81%)	117 (76%)	36 (24%)	1 4
3	2E	159/188 (85%)	120 (76%)	39 (24%)	1 3
4	32	180/181 (99%)	146 (81%)	34 (19%)	1 8
4	3E	178/181 (98%)	147 (83%)	31 (17%)	2 9
5	42	116/123 (94%)	80 (69%)	36 (31%)	0 1
5	4E	115/123 (94%)	88 (76%)	27 (24%)	1 4
6	52	90/90 (100%)	74 (82%)	16 (18%)	2 8
6	5E	90/90 (100%)	73 (81%)	17 (19%)	1 8
7	62	114/127 (90%)	87 (76%)	27 (24%)	1 4
7	6E	125/127 (98%)	97 (78%)	28 (22%)	1 4
8	72	119/119 (100%)	100 (84%)	19 (16%)	2 11
8	7E	119/119 (100%)	92 (77%)	27 (23%)	1 4
9	82	95/99 (96%)	71 (75%)	24 (25%)	0 3
9	8E	97/99 (98%)	74 (76%)	23 (24%)	1 4
10	1A	89/92 (97%)	66 (74%)	23 (26%)	0 2
10	1I	89/92 (97%)	68 (76%)	21 (24%)	1 4
11	2A	85/99 (86%)	62 (73%)	23 (27%)	0 2
11	2I	84/99 (85%)	57 (68%)	27 (32%)	0 1
12	3A	102/109 (94%)	82 (80%)	20 (20%)	1 7
12	3I	103/109 (94%)	75 (73%)	28 (27%)	0 2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
13	4A	90/101 (89%)	58 (64%)	32 (36%)	0 0
13	4I	93/101 (92%)	67 (72%)	26 (28%)	0 2
14	5A	47/50 (94%)	32 (68%)	15 (32%)	0 1
14	5I	50/50 (100%)	41 (82%)	9 (18%)	2 8
15	6A	79/80 (99%)	62 (78%)	17 (22%)	1 5
15	6I	79/80 (99%)	65 (82%)	14 (18%)	2 8
16	7A	72/74 (97%)	57 (79%)	15 (21%)	1 6
16	7I	72/74 (97%)	55 (76%)	17 (24%)	1 4
17	8A	94/97 (97%)	75 (80%)	19 (20%)	1 6
17	8I	95/97 (98%)	76 (80%)	19 (20%)	1 6
18	9A	58/77 (75%)	45 (78%)	13 (22%)	1 4
18	9I	58/77 (75%)	45 (78%)	13 (22%)	1 4
19	AA	52/80 (65%)	37 (71%)	15 (29%)	0 1
19	AI	70/80 (88%)	50 (71%)	20 (29%)	0 1
20	BA	76/82 (93%)	55 (72%)	21 (28%)	0 2
20	BI	75/82 (92%)	53 (71%)	22 (29%)	0 1
21	1B	19/22 (86%)	18 (95%)	1 (5%)	20 49
21	1F	19/22 (86%)	16 (84%)	3 (16%)	2 11
28	71	110/181 (61%)	83 (76%)	27 (24%)	1 3
28	79	107/181 (59%)	94 (88%)	13 (12%)	5 20
29	11	214/218 (98%)	162 (76%)	52 (24%)	1 3
29	19	214/218 (98%)	164 (77%)	50 (23%)	1 4
30	21	165/166 (99%)	118 (72%)	47 (28%)	0 1
30	29	165/166 (99%)	126 (76%)	39 (24%)	1 4
31	31	161/166 (97%)	119 (74%)	42 (26%)	0 2
31	39	163/166 (98%)	113 (69%)	50 (31%)	0 1
32	41	153/156 (98%)	113 (74%)	40 (26%)	0 2
32	49	153/156 (98%)	109 (71%)	44 (29%)	0 1
33	51	142/148 (96%)	93 (66%)	49 (34%)	0 0
33	59	142/148 (96%)	108 (76%)	34 (24%)	1 3
34	18	26/90 (29%)	16 (62%)	10 (38%)	0 0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
34	28	26/90 (29%)	11 (42%)	15 (58%)	0 0
35	61	122/124 (98%)	88 (72%)	34 (28%)	0 2
35	69	122/124 (98%)	79 (65%)	43 (35%)	0 0
36	38	115/135 (85%)	61 (53%)	54 (47%)	0 0
37	48	106/111 (96%)	66 (62%)	40 (38%)	0 0
38	15	116/119 (98%)	85 (73%)	31 (27%)	0 2
38	58	116/119 (98%)	88 (76%)	28 (24%)	1 3
39	25	100/100 (100%)	75 (75%)	25 (25%)	0 3
39	68	100/100 (100%)	84 (84%)	16 (16%)	2 11
40	35	115/116 (99%)	80 (70%)	35 (30%)	0 1
40	78	114/116 (98%)	72 (63%)	42 (37%)	0 0
41	45	109/111 (98%)	74 (68%)	35 (32%)	0 1
41	88	109/111 (98%)	92 (84%)	17 (16%)	2 12
42	55	101/101 (100%)	80 (79%)	21 (21%)	1 6
42	98	101/101 (100%)	75 (74%)	26 (26%)	0 3
43	65	87/88 (99%)	59 (68%)	28 (32%)	0 1
43	A8	87/88 (99%)	55 (63%)	32 (37%)	0 0
44	75	117/127 (92%)	85 (73%)	32 (27%)	0 2
44	B8	119/127 (94%)	88 (74%)	31 (26%)	0 2
45	85	93/94 (99%)	76 (82%)	17 (18%)	2 8
45	C8	92/94 (98%)	74 (80%)	18 (20%)	1 7
46	95	82/82 (100%)	62 (76%)	20 (24%)	1 3
46	D8	82/82 (100%)	54 (66%)	28 (34%)	0 0
47	A5	91/92 (99%)	64 (70%)	27 (30%)	0 1
47	E8	91/92 (99%)	71 (78%)	20 (22%)	1 5
48	B5	75/78 (96%)	57 (76%)	18 (24%)	1 3
48	F8	75/78 (96%)	56 (75%)	19 (25%)	0 3
49	C5	81/91 (89%)	57 (70%)	24 (30%)	0 1
49	G8	82/91 (90%)	61 (74%)	21 (26%)	0 3
50	D5	173/179 (97%)	128 (74%)	45 (26%)	0 2
50	H8	147/179 (82%)	102 (69%)	45 (31%)	0 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
51	E5	62/67 (92%)	49 (79%)	13 (21%)	1 6
51	I8	62/67 (92%)	47 (76%)	15 (24%)	1 3
52	F5	79/83 (95%)	52 (66%)	27 (34%)	0 0
52	J8	78/83 (94%)	52 (67%)	26 (33%)	0 1
53	G5	62/67 (92%)	41 (66%)	21 (34%)	0 0
53	K8	63/67 (94%)	41 (65%)	22 (35%)	0 0
54	H5	50/52 (96%)	42 (84%)	8 (16%)	2 11
54	L8	50/52 (96%)	37 (74%)	13 (26%)	0 2
55	M8	42/63 (67%)	29 (69%)	13 (31%)	0 1
56	J5	48/52 (92%)	39 (81%)	9 (19%)	1 8
56	N8	44/52 (85%)	33 (75%)	11 (25%)	0 3
57	O8	44/52 (85%)	30 (68%)	14 (32%)	0 1
58	L5	40/42 (95%)	33 (82%)	7 (18%)	2 9
58	P8	38/42 (90%)	32 (84%)	6 (16%)	2 11
59	M5	54/55 (98%)	40 (74%)	14 (26%)	0 2
59	Q8	54/55 (98%)	40 (74%)	14 (26%)	0 2
All	All	9836/10671 (92%)	7290 (74%)	2546 (26%)	0 2

All (2546) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	1E	5	ILE
2	1E	7	VAL
2	1E	9	GLU
2	1E	10	LEU
2	1E	11	LEU
2	1E	15	VAL
2	1E	17	PHE
2	1E	21	ARG
2	1E	23	ARG
2	1E	28	PHE
2	1E	31	TYR
2	1E	35	GLU
2	1E	36	ARG
2	1E	41	ILE
2	1E	42	ILE

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Mol	Chain	Res	Type
2	1E	44	LEU
2	1E	47	THR
2	1E	51	LEU
2	1E	55	PHE
2	1E	68	ILE
2	1E	69	LEU
2	1E	71	VAL
2	1E	73	THR
2	1E	74	LYS
2	1E	80	ILE
2	1E	93	VAL
2	1E	96	ARG
2	1E	108	ILE
2	1E	109	SER
2	1E	111	ARG
2	1E	118	LEU
2	1E	127	ILE
2	1E	136	VAL
2	1E	144	ARG
2	1E	156	LYS
2	1E	158	LEU
2	1E	160	ASP
2	1E	162	ILE
2	1E	163	PHE
2	1E	164	VAL
2	1E	170	GLU
2	1E	172	ILE
2	1E	174	VAL
2	1E	178	ARG
2	1E	185	ILE
2	1E	187	LEU
2	1E	189	ASP
2	1E	190	THR
2	1E	195	ASP
2	1E	197	VAL
2	1E	200	ILE
2	1E	205	ASP
2	1E	211	ILE
2	1E	214	ILE
2	1E	219	VAL
2	1E	221	LEU
2	1E	222	ILE

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Mol	Chain	Res	Type
2	1E	223	ILE
2	1E	224	GLN
2	1E	230	VAL
3	2E	3	ASN
3	2E	5	ILE
3	2E	8	ILE
3	2E	16	ARG
3	2E	18	TRP
3	2E	21	ARG
3	2E	31	HIS
3	2E	32	LEU
3	2E	36	ASP
3	2E	45	LYS
3	2E	49	SER
3	2E	54	ARG
3	2E	63	ASN
3	2E	68	VAL
3	2E	72	LYS
3	2E	76	VAL
3	2E	79	ARG
3	2E	95	THR
3	2E	98	ASN
3	2E	104	GLN
3	2E	107	GLN
3	2E	116	VAL
3	2E	120	VAL
3	2E	127	ARG
3	2E	131	ARG
3	2E	132	ARG
3	2E	136	GLN
3	2E	138	VAL
3	2E	140	ARG
3	2E	151	VAL
3	2E	154	SER
3	2E	166	GLU
3	2E	170	GLN
3	2E	184	TYR
3	2E	188	LEU
3	2E	192	THR
3	2E	198	VAL
3	2E	202	ILE
3	2E	206	GLU

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Mol	Chain	Res	Type
4	3E	8	VAL
4	3E	10	ARG
4	3E	13	ARG
4	3E	15	GLU
4	3E	17	VAL
4	3E	30	LYS
4	3E	46	LYS
4	3E	50	ARG
4	3E	58	LEU
4	3E	64	LEU
4	3E	70	ILE
4	3E	76	ARG
4	3E	96	LEU
4	3E	108	LEU
4	3E	114	ARG
4	3E	122	ARG
4	3E	127	THR
4	3E	135	LEU
4	3E	141	ARG
4	3E	151	LYS
4	3E	154	ASN
4	3E	155	LEU
4	3E	160	GLN
4	3E	169	LYS
4	3E	176	LEU
4	3E	179	GLU
4	3E	184	LYS
4	3E	188	LEU
4	3E	190	ASP
4	3E	200	GLU
4	3E	209	ARG
5	4E	10	MET
5	4E	11	ILE
5	4E	16	THR
5	4E	18	ARG
5	4E	19	MET
5	4E	31	LEU
5	4E	40	ARG
5	4E	41	VAL
5	4E	47	LYS
5	4E	51	VAL
5	4E	64	ARG

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Mol	Chain	Res	Type
5	4E	67	VAL
5	4E	68	GLU
5	4E	71	LEU
5	4E	72	GLN
5	4E	75	THR
5	4E	79	GLU
5	4E	87	SER
5	4E	90	VAL
5	4E	92	LYS
5	4E	112	LEU
5	4E	116	THR
5	4E	131	ILE
5	4E	147	ASP
5	4E	148	VAL
5	4E	152	ARG
5	4E	153	LYS
6	5E	21	LEU
6	5E	23	LYS
6	5E	30	LEU
6	5E	36	ARG
6	5E	37	VAL
6	5E	43	LEU
6	5E	57	GLN
6	5E	65	VAL
6	5E	70	ASP
6	5E	71	ARG
6	5E	72	VAL
6	5E	86	ARG
6	5E	87	ARG
6	5E	89	MET
6	5E	91	VAL
6	5E	92	LYS
6	5E	96	PRO
7	6E	8	GLU
7	6E	17	VAL
7	6E	21	VAL
7	6E	22	LEU
7	6E	30	ILE
7	6E	38	LEU
7	6E	50	ILE
7	6E	52	GLU
7	6E	54	THR

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Mol	Chain	Res	Type
7	6E	56	GLN
7	6E	59	LEU
7	6E	63	LYS
7	6E	66	VAL
7	6E	73	MET
7	6E	78	ARG
7	6E	80	VAL
7	6E	90	GLU
7	6E	96	GLN
7	6E	97	GLN
7	6E	104	LEU
7	6E	111	ARG
7	6E	113	GLU
7	6E	115	ARG
7	6E	120	ILE
7	6E	124	LEU
7	6E	143	ARG
7	6E	144	MET
7	6E	155	ARG
8	7E	1	MET
8	7E	3	THR
8	7E	10	LEU
8	7E	23	SER
8	7E	25	ASP
8	7E	26	VAL
8	7E	36	LEU
8	7E	45	ILE
8	7E	49	GLU
8	7E	51	VAL
8	7E	52	ASP
8	7E	56	LYS
8	7E	63	LEU
8	7E	68	ARG
8	7E	79	VAL
8	7E	80	ILE
8	7E	83	ILE
8	7E	84	ARG
8	7E	85	ARG
8	7E	107	LEU
8	7E	109	ILE
8	7E	112	LEU
8	7E	118	VAL

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Mol	Chain	Res	Type
8	7E	123	GLU
8	7E	127	LEU
8	7E	129	VAL
8	7E	137	VAL
9	8E	9	ARG
9	8E	16	ARG
9	8E	20	ARG
9	8E	34	ASN
9	8E	38	GLN
9	8E	40	LEU
9	8E	42	ARG
9	8E	44	VAL
9	8E	47	LEU
9	8E	51	ARG
9	8E	53	VAL
9	8E	54	ASP
9	8E	75	ASP
9	8E	79	LEU
9	8E	91	ASP
9	8E	92	TYR
9	8E	99	LEU
9	8E	105	ASP
9	8E	108	VAL
9	8E	111	ARG
9	8E	112	LYS
9	8E	118	LYS
9	8E	121	ARG
10	1I	3	LYS
10	1I	21	GLN
10	1I	34	VAL
10	1I	40	LEU
10	1I	43	ARG
10	1I	44	VAL
10	1I	46	ARG
10	1I	49	VAL
10	1I	57	LYS
10	1I	59	SER
10	1I	62	HIS
10	1I	63	PHE
10	1I	74	ILE
10	1I	75	ILE
10	1I	80	LYS

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Mol	Chain	Res	Type
10	1I	81	THR
10	1I	84	GLN
10	1I	92	THR
10	1I	95	GLU
10	1I	96	ILE
10	1I	98	ILE
11	2I	16	SER
11	2I	18	ARG
11	2I	28	THR
11	2I	29	ILE
11	2I	30	VAL
11	2I	32	ILE
11	2I	41	THR
11	2I	48	ILE
11	2I	51	LYS
11	2I	54	ARG
11	2I	55	LYS
11	2I	62	GLN
11	2I	70	LYS
11	2I	71	LYS
11	2I	75	TYR
11	2I	77	MET
11	2I	81	ASP
11	2I	82	VAL
11	2I	84	VAL
11	2I	87	THR
11	2I	91	ARG
11	2I	105	VAL
11	2I	106	LYS
11	2I	109	VAL
11	2I	117	ASN
11	2I	123	LYS
11	2I	124	LYS
12	3I	6	THR
12	3I	7	ILE
12	3I	8	ASN
12	3I	11	VAL
12	3I	18	VAL
12	3I	19	ARG
12	3I	20	LYS
12	3I	21	LYS
12	3I	22	SER

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Mol	Chain	Res	Type
12	3I	33	ARG
12	3I	34	ARG
12	3I	44	THR
12	3I	46	LYS
12	3I	55	VAL
12	3I	60	LEU
12	3I	62	SER
12	3I	64	TYR
12	3I	67	THR
12	3I	70	ILE
12	3I	79	GLU
12	3I	83	VAL
12	3I	85	ILE
12	3I	102	ARG
12	3I	104	VAL
12	3I	115	LYS
12	3I	116	SER
12	3I	123	LYS
12	3I	126	LYS
13	4I	3	ARG
13	4I	15	VAL
13	4I	17	VAL
13	4I	22	ILE
13	4I	32	GLU
13	4I	34	LEU
13	4I	35	GLU
13	4I	44	ARG
13	4I	45	VAL
13	4I	46	LYS
13	4I	48	LEU
13	4I	50	GLU
13	4I	52	GLU
13	4I	56	LEU
13	4I	64	TRP
13	4I	66	LEU
13	4I	67	GLU
13	4I	69	GLU
13	4I	70	LEU
13	4I	96	LEU
13	4I	102	ARG
13	4I	105	THR
13	4I	106	ASN

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Mol	Chain	Res	Type
13	4I	108	ARG
13	4I	109	THR
13	4I	117	VAL
14	5I	4	LYS
14	5I	6	LEU
14	5I	22	THR
14	5I	32	SER
14	5I	33	VAL
14	5I	35	ARG
14	5I	41	ARG
14	5I	44	LEU
14	5I	56	VAL
15	6I	6	GLU
15	6I	11	VAL
15	6I	17	ARG
15	6I	24	SER
15	6I	26	GLU
15	6I	31	LEU
15	6I	41	GLU
15	6I	47	LYS
15	6I	64	ARG
15	6I	66	LEU
15	6I	67	LEU
15	6I	76	GLU
15	6I	87	ILE
15	6I	88	ARG
16	7I	2	VAL
16	7I	4	ILE
16	7I	6	LEU
16	7I	8	ARG
16	7I	11	SER
16	7I	18	ARG
16	7I	20	VAL
16	7I	21	VAL
16	7I	22	THR
16	7I	27	LYS
16	7I	28	ARG
16	7I	43	LYS
16	7I	45	THR
16	7I	47	ASP
16	7I	50	LYS
16	7I	72	ARG

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Mol	Chain	Res	Type
16	7I	80	PHE
17	8I	4	LYS
17	8I	7	THR
17	8I	23	VAL
17	8I	24	GLU
17	8I	38	ARG
17	8I	43	LEU
17	8I	48	GLU
17	8I	52	LYS
17	8I	57	VAL
17	8I	60	ILE
17	8I	62	SER
17	8I	68	ARG
17	8I	74	LEU
17	8I	81	ARG
17	8I	85	VAL
17	8I	89	LEU
17	8I	96	GLU
17	8I	98	LEU
17	8I	101	ARG
18	9I	22	VAL
18	9I	28	GLU
18	9I	32	ARG
18	9I	36	ASN
18	9I	42	ARG
18	9I	49	LYS
18	9I	54	ARG
18	9I	66	LEU
18	9I	68	LYS
18	9I	69	THR
18	9I	76	LEU
18	9I	84	LYS
18	9I	86	VAL
19	AI	5	LEU
19	AI	6	LYS
19	AI	10	PHE
19	AI	20	LEU
19	AI	22	LEU
19	AI	25	LYS
19	AI	27	GLU
19	AI	28	LYS
19	AI	29	ARG

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Mol	Chain	Res	Type
19	AI	31	ILE
19	AI	33	THR
19	AI	36	ARG
19	AI	37	ARG
19	AI	39	THR
19	AI	41	VAL
19	AI	45	VAL
19	AI	48	THR
19	AI	62	ILE
19	AI	71	LEU
19	AI	77	THR
20	BI	11	SER
20	BI	13	LEU
20	BI	15	ARG
20	BI	17	ARG
20	BI	18	GLN
20	BI	20	LEU
20	BI	24	LEU
20	BI	30	LYS
20	BI	34	LYS
20	BI	35	THR
20	BI	36	LEU
20	BI	37	SER
20	BI	53	LEU
20	BI	54	LYS
20	BI	55	ILE
20	BI	57	ARG
20	BI	64	ASP
20	BI	70	SER
20	BI	73	HIS
20	BI	74	LYS
20	BI	100	ILE
20	BI	105	SER
21	1F	8	THR
21	1F	10	ARG
21	1F	12	LYS
28	71	6	ARG
28	71	13	LYS
28	71	19	ILE
28	71	21	THR
28	71	22	ILE
28	71	24	GLU

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Mol	Chain	Res	Type
28	71	30	LYS
28	71	52	ARG
28	71	55	ASP
28	71	59	ARG
28	71	64	LEU
28	71	66	HIS
28	71	68	LEU
28	71	165	ASN
28	71	168	THR
28	71	171	ILE
28	71	177	LYS
28	71	185	LEU
28	71	187	ASP
28	71	189	ILE
28	71	202	GLU
28	71	205	LYS
28	71	211	SER
28	71	212	VAL
28	71	213	TYR
28	71	222	VAL
28	71	227	HIS
29	11	3	VAL
29	11	17	THR
29	11	26	LYS
29	11	27	THR
29	11	28	GLU
29	11	29	PRO
29	11	30	GLU
29	11	31	LYS
29	11	32	SER
29	11	33	LEU
29	11	35	LYS
29	11	37	LEU
29	11	38	LYS
29	11	39	LYS
29	11	43	ARG
29	11	46	GLN
29	11	61	LEU
29	11	64	ILE
29	11	65	ILE
29	11	73	VAL
29	11	94	LEU

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Mol	Chain	Res	Type
29	11	101	GLU
29	11	103	ARG
29	11	105	ILE
29	11	106	ILE
29	11	113	VAL
29	11	116	GLN
29	11	117	VAL
29	11	126	GLN
29	11	131	LEU
29	11	136	ILE
29	11	141	VAL
29	11	142	VAL
29	11	150	LYS
29	11	154	LYS
29	11	155	LEU
29	11	162	SER
29	11	165	ILE
29	11	181	GLU
29	11	185	VAL
29	11	192	THR
29	11	193	VAL
29	11	200	ASP
29	11	212	SER
29	11	221	VAL
29	11	228	PRO
29	11	229	VAL
29	11	242	ARG
29	11	257	LEU
29	11	261	LYS
29	11	270	ILE
29	11	271	ILE
30	21	12	THR
30	21	14	ILE
30	21	16	ARG
30	21	21	VAL
30	21	26	ILE
30	21	34	VAL
30	21	40	GLU
30	21	41	LYS
30	21	47	VAL
30	21	48	GLN
30	21	49	LEU

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Mol	Chain	Res	Type
30	21	52	LEU
30	21	54	GLN
30	21	57	LYS
30	21	61	ARG
30	21	63	LEU
30	21	64	LYS
30	21	66	HIS
30	21	78	LEU
30	21	79	ARG
30	21	80	GLU
30	21	87	GLU
30	21	95	ILE
30	21	107	THR
30	21	111	ARG
30	21	116	VAL
30	21	117	MET
30	21	118	LYS
30	21	119	ARG
30	21	136	ARG
30	21	138	PRO
30	21	144	ARG
30	21	145	LYS
30	21	146	THR
30	21	149	ARG
30	21	163	GLU
30	21	167	VAL
30	21	169	ASN
30	21	175	VAL
30	21	179	GLU
30	21	181	LEU
30	21	188	VAL
30	21	195	LEU
30	21	196	VAL
30	21	197	ILE
30	21	202	LYS
30	21	203	LYS
31	31	9	ILE
31	31	13	SER
31	31	17	ARG
31	31	19	GLU
31	31	24	LEU
31	31	27	GLU

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Mol	Chain	Res	Type
31	31	28	ILE
31	31	32	LEU
31	31	33	LEU
31	31	43	LYS
31	31	56	GLU
31	31	57	VAL
31	31	64	ILE
31	31	78	ILE
31	31	82	ILE
31	31	88	VAL
31	31	98	SER
31	31	101	LEU
31	31	106	ARG
31	31	107	LYS
31	31	112	MET
31	31	116	ASP
31	31	117	ARG
31	31	127	GLU
31	31	137	LYS
31	31	152	GLU
31	31	153	SER
31	31	156	LEU
31	31	158	THR
31	31	161	GLU
31	31	168	ARG
31	31	170	LEU
31	31	174	VAL
31	31	175	THR
31	31	181	LEU
31	31	183	VAL
31	31	188	ARG
31	31	189	THR
31	31	194	MET
31	31	196	LEU
31	31	205	ARG
31	31	206	ILE
32	41	3	LEU
32	41	14	GLU
32	41	19	LEU
32	41	21	ARG
32	41	26	GLN
32	41	28	VAL

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Mol	Chain	Res	Type
32	41	31	VAL
32	41	34	LEU
32	41	43	LEU
32	41	45	GLU
32	41	47	LYS
32	41	48	GLU
32	41	51	ARG
32	41	52	ILE
32	41	53	LEU
32	41	58	GLN
32	41	62	LEU
32	41	67	LYS
32	41	70	VAL
32	41	76	SER
32	41	77	ILE
32	41	80	PHE
32	41	82	LEU
32	41	83	ARG
32	41	90	LEU
32	41	94	LEU
32	41	96	ARG
32	41	101	ILE
32	41	106	LEU
32	41	108	ASN
32	41	115	ARG
32	41	116	ASP
32	41	126	ASP
32	41	130	ASN
32	41	136	ARG
32	41	139	LEU
32	41	149	VAL
32	41	150	ASP
32	41	157	ILE
32	41	168	GLU
33	51	2	SER
33	51	4	ILE
33	51	6	ARG
33	51	7	LEU
33	51	9	ILE
33	51	11	VAL
33	51	24	VAL
33	51	25	LYS

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Mol	Chain	Res	Type
33	51	37	VAL
33	51	41	MET
33	51	43	VAL
33	51	45	VAL
33	51	50	VAL
33	51	52	VAL
33	51	61	HIS
33	51	63	SER
33	51	64	LEU
33	51	68	THR
33	51	71	LEU
33	51	80	SER
33	51	81	GLU
33	51	83	TYR
33	51	84	SER
33	51	97	ARG
33	51	98	LEU
33	51	99	VAL
33	51	104	GLU
33	51	105	LEU
33	51	110	SER
33	51	121	ILE
33	51	122	THR
33	51	125	VAL
33	51	129	THR
33	51	130	ARG
33	51	131	VAL
33	51	132	ARG
33	51	133	VAL
33	51	134	SER
33	51	136	ILE
33	51	138	LYS
33	51	139	GLN
33	51	140	LYS
33	51	141	VAL
33	51	155	SER
33	51	159	GLU
33	51	160	LYS
33	51	167	GLU
33	51	169	VAL
33	51	171	LEU
34	18	3	LEU

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Mol	Chain	Res	Type
34	18	9	LYS
34	18	10	GLU
34	18	14	GLN
34	18	17	VAL
34	18	18	LEU
34	18	19	GLU
34	18	20	LEU
34	18	28	LYS
34	18	29	GLU
35	61	1	MET
35	61	9	LEU
35	61	10	GLU
35	61	12	LEU
35	61	25	TYR
35	61	38	LEU
35	61	50	ARG
35	61	54	GLN
35	61	57	ARG
35	61	58	LEU
35	61	60	GLU
35	61	62	LYS
35	61	66	GLU
35	61	72	LEU
35	61	77	LEU
35	61	79	ILE
35	61	81	VAL
35	61	82	ARG
35	61	85	GLU
35	61	92	VAL
35	61	99	GLU
35	61	101	LEU
35	61	107	VAL
35	61	110	ASP
35	61	111	PRO
35	61	116	LEU
35	61	117	GLU
35	61	127	VAL
35	61	135	GLU
35	61	136	VAL
35	61	139	GLN
35	61	140	LEU
35	61	142	VAL

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Mol	Chain	Res	Type
35	61	144	VAL
36	38	3	ASN
36	38	4	LYS
36	38	7	VAL
36	38	9	LEU
36	38	10	LEU
36	38	13	LEU
36	38	14	LYS
36	38	16	ASN
36	38	17	LEU
36	38	18	GLU
36	38	26	LEU
36	38	32	LEU
36	38	36	GLU
36	38	38	HIS
36	38	41	ARG
36	38	44	LEU
36	38	45	LYS
36	38	50	ARG
36	38	51	LEU
36	38	52	PHE
36	38	53	VAL
36	38	56	ASN
36	38	58	LEU
36	38	59	ILE
36	38	60	ARG
36	38	63	LEU
36	38	64	LYS
36	38	65	GLU
36	38	68	LEU
36	38	71	LEU
36	38	74	LEU
36	38	84	GLU
36	38	92	THR
36	38	93	LEU
36	38	94	VAL
36	38	98	LYS
36	38	99	SER
36	38	102	LYS
36	38	107	VAL
36	38	109	SER
36	38	111	LEU

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Mol	Chain	Res	Type
36	38	112	LEU
36	38	116	ILE
36	38	117	LEU
36	38	122	VAL
36	38	127	GLU
36	38	128	LEU
36	38	130	THR
36	38	131	MET
36	38	134	LEU
36	38	137	GLU
36	38	138	LEU
36	38	139	VAL
36	38	141	VAL
37	48	9	LYS
37	48	10	LEU
37	48	11	GLN
37	48	16	LYS
37	48	23	VAL
37	48	29	GLN
37	48	34	ILE
37	48	38	VAL
37	48	42	ASN
37	48	48	MET
37	48	52	ILE
37	48	57	ILE
37	48	58	THR
37	48	63	ARG
37	48	65	PHE
37	48	66	THR
37	48	75	SER
37	48	77	LEU
37	48	78	ILE
37	48	79	ARG
37	48	85	GLU
37	48	86	LYS
37	48	89	HIS
37	48	96	VAL
37	48	98	ARG
37	48	99	ILE
37	48	100	THR
37	48	101	TRP
37	48	102	GLU

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Mol	Chain	Res	Type
37	48	105	LEU
37	48	106	GLU
37	48	109	LYS
37	48	112	MET
37	48	115	LEU
37	48	120	LEU
37	48	121	GLU
37	48	126	MET
37	48	130	SER
37	48	133	SER
37	48	139	VAL
34	28	1	MET
34	28	3	LEU
34	28	4	ASP
34	28	6	GLU
34	28	7	ARG
34	28	8	ILE
34	28	10	GLU
34	28	13	SER
34	28	16	THR
34	28	18	LEU
34	28	20	LEU
34	28	21	LYS
34	28	24	ILE
34	28	27	LEU
34	28	28	LYS
38	58	1	MET
38	58	5	VAL
38	58	7	LYS
38	58	8	GLN
38	58	10	GLU
38	58	12	ARG
38	58	14	VAL
38	58	15	LEU
38	58	34	LEU
38	58	43	THR
38	58	58	ASP
38	58	60	ILE
38	58	65	LYS
38	58	67	LEU
38	58	87	LEU
38	58	89	LYS

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Mol	Chain	Res	Type
38	58	90	MET
38	58	97	ARG
38	58	99	LEU
38	58	112	LEU
38	58	115	ARG
38	58	119	ARG
38	58	120	LEU
38	58	128	HIS
38	58	130	HIS
38	58	131	GLN
38	58	133	GLN
38	58	137	LYS
39	68	8	LEU
39	68	20	MET
39	68	22	ILE
39	68	24	VAL
39	68	28	SER
39	68	31	LYS
39	68	38	VAL
39	68	47	ILE
39	68	58	VAL
39	68	63	VAL
39	68	70	LYS
39	68	78	ARG
39	68	91	LEU
39	68	94	ARG
39	68	98	VAL
39	68	112	MET
40	78	1	MET
40	78	3	LEU
40	78	5	ASP
40	78	10	PRO
40	78	15	ARG
40	78	16	ARG
40	78	21	ARG
40	78	27	HIS
40	78	29	LYS
40	78	33	ARG
40	78	36	LYS
40	78	40	SER
40	78	41	ARG
40	78	45	LEU

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Mol	Chain	Res	Type
40	78	46	LYS
40	78	49	ARG
40	78	56	SER
40	78	57	THR
40	78	58	THR
40	78	61	ARG
40	78	68	GLN
40	78	75	ILE
40	78	77	ARG
40	78	79	ARG
40	78	81	GLN
40	78	88	LEU
40	78	90	ARG
40	78	95	VAL
40	78	99	LEU
40	78	100	LEU
40	78	101	VAL
40	78	105	LEU
40	78	106	LEU
40	78	112	LEU
40	78	115	LEU
40	78	126	VAL
40	78	132	LYS
40	78	133	SER
40	78	135	LEU
40	78	144	GLU
40	78	146	VAL
40	78	147	LEU
41	88	1	MET
41	88	5	ARG
41	88	10	ARG
41	88	18	LYS
41	88	25	ASP
41	88	42	ILE
41	88	45	GLN
41	88	52	VAL
41	88	55	VAL
41	88	59	ARG
41	88	60	ARG
41	88	64	ILE
41	88	75	THR
41	88	81	VAL

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Mol	Chain	Res	Type
41	88	83	MET
41	88	90	VAL
41	88	110	THR
42	98	1	MET
42	98	6	SER
42	98	9	LYS
42	98	24	GLN
42	98	27	SER
42	98	28	LEU
42	98	29	LEU
42	98	30	THR
42	98	34	ILE
42	98	35	THR
42	98	36	THR
42	98	37	THR
42	98	40	LYS
42	98	44	LEU
42	98	45	ARG
42	98	48	VAL
42	98	53	HIS
42	98	54	LEU
42	98	59	ASP
42	98	65	LEU
42	98	79	LEU
42	98	91	GLN
42	98	95	THR
42	98	105	ARG
42	98	114	VAL
42	98	118	GLU
43	A8	4	LEU
43	A8	8	GLU
43	A8	14	VAL
43	A8	17	ARG
43	A8	27	SER
43	A8	32	LEU
43	A8	35	ILE
43	A8	36	TYR
43	A8	43	GLU
43	A8	46	VAL
43	A8	49	VAL
43	A8	50	SER
43	A8	54	LEU

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Mol	Chain	Res	Type
43	A8	56	LEU
43	A8	58	LEU
43	A8	61	ASN
43	A8	64	GLU
43	A8	69	VAL
43	A8	73	LEU
43	A8	80	LEU
43	A8	83	LYS
43	A8	85	VAL
43	A8	88	ASP
43	A8	89	ARG
43	A8	93	LYS
43	A8	95	HIS
43	A8	97	ARG
43	A8	98	VAL
43	A8	101	LEU
43	A8	106	ARG
43	A8	107	GLU
43	A8	110	LEU
44	B8	1	MET
44	B8	16	ARG
44	B8	21	GLU
44	B8	27	THR
44	B8	30	VAL
44	B8	33	LYS
44	B8	38	ASN
44	B8	40	THR
44	B8	42	ILE
44	B8	50	ILE
44	B8	58	ASN
44	B8	65	LYS
44	B8	85	LYS
44	B8	86	ILE
44	B8	87	ASP
44	B8	88	ILE
44	B8	89	VAL
44	B8	95	ARG
44	B8	96	ARG
44	B8	98	LYS
44	B8	99	LEU
44	B8	102	ILE
44	B8	105	LEU

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Mol	Chain	Res	Type
44	B8	106	SER
44	B8	108	ARG
44	B8	110	ILE
44	B8	112	ARG
44	B8	115	ARG
44	B8	118	ARG
44	B8	128	GLU
44	B8	136	GLN
45	C8	5	LYS
45	C8	17	ILE
45	C8	20	LEU
45	C8	27	LEU
45	C8	30	LYS
45	C8	51	LYS
45	C8	60	LEU
45	C8	64	ARG
45	C8	71	GLN
45	C8	74	LEU
45	C8	83	LEU
45	C8	88	ILE
45	C8	89	GLU
45	C8	93	LYS
45	C8	97	ASP
45	C8	100	VAL
45	C8	104	GLN
45	C8	108	GLU
46	D8	5	VAL
46	D8	6	LYS
46	D8	7	THR
46	D8	14	VAL
46	D8	18	LEU
46	D8	19	LYS
46	D8	20	LEU
46	D8	21	ARG
46	D8	24	LYS
46	D8	25	LEU
46	D8	32	THR
46	D8	33	VAL
46	D8	35	LEU
46	D8	37	VAL
46	D8	38	LEU
46	D8	40	LEU

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Mol	Chain	Res	Type
46	D8	44	LYS
46	D8	46	VAL
46	D8	47	VAL
46	D8	51	VAL
46	D8	52	VAL
46	D8	57	VAL
46	D8	62	LEU
46	D8	78	LYS
46	D8	79	VAL
46	D8	85	LYS
46	D8	89	GLN
46	D8	99	ILE
47	E8	11	ARG
47	E8	12	ILE
47	E8	17	VAL
47	E8	19	LEU
47	E8	20	VAL
47	E8	39	THR
47	E8	41	LYS
47	E8	42	ARG
47	E8	51	LEU
47	E8	66	GLU
47	E8	70	TYR
47	E8	76	VAL
47	E8	77	ASP
47	E8	88	ARG
47	E8	92	ARG
47	E8	96	ILE
47	E8	97	LYS
47	E8	98	LYS
47	E8	107	LEU
47	E8	109	GLU
48	F8	12	VAL
48	F8	23	GLU
48	F8	27	THR
48	F8	30	VAL
48	F8	35	THR
48	F8	38	GLU
48	F8	40	LYS
48	F8	53	LYS
48	F8	54	VAL
48	F8	66	LEU

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Mol	Chain	Res	Type
48	F8	68	ARG
48	F8	70	LEU
48	F8	72	LYS
48	F8	76	ARG
48	F8	80	ILE
48	F8	81	VAL
48	F8	83	VAL
48	F8	87	GLN
48	F8	89	ILE
49	G8	6	HIS
49	G8	7	VAL
49	G8	14	LEU
49	G8	27	VAL
49	G8	31	LEU
49	G8	38	ILE
49	G8	40	GLU
49	G8	42	VAL
49	G8	55	TYR
49	G8	63	LYS
49	G8	64	GLU
49	G8	67	LEU
49	G8	75	ILE
49	G8	82	PRO
49	G8	85	VAL
49	G8	86	ARG
49	G8	87	LYS
49	G8	88	LYS
49	G8	89	PHE
49	G8	90	LEU
49	G8	99	CYS
50	H8	5	LEU
50	H8	6	LYS
50	H8	11	GLU
50	H8	13	GLU
50	H8	14	LYS
50	H8	16	SER
50	H8	18	LEU
50	H8	19	ARG
50	H8	24	LEU
50	H8	35	ARG
50	H8	37	VAL
50	H8	40	ASP

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Mol	Chain	Res	Type
50	H8	42	VAL
50	H8	46	LYS
50	H8	53	ILE
50	H8	59	LEU
50	H8	61	LEU
50	H8	67	LEU
50	H8	77	ASP
50	H8	81	ARG
50	H8	82	ARG
50	H8	86	VAL
50	H8	87	ASP
50	H8	90	VAL
50	H8	94	GLU
50	H8	103	ARG
50	H8	105	VAL
50	H8	111	VAL
50	H8	116	VAL
50	H8	119	GLU
50	H8	120	ILE
50	H8	121	HIS
50	H8	126	VAL
50	H8	127	LYS
50	H8	128	VAL
50	H8	131	ARG
50	H8	132	ASN
50	H8	154	ASP
50	H8	155	LEU
50	H8	157	LEU
50	H8	158	PRO
50	H8	163	LEU
50	H8	169	GLU
50	H8	170	THR
50	H8	171	ILE
51	I8	9	SER
51	I8	11	ARG
51	I8	23	VAL
51	I8	31	VAL
51	I8	36	ILE
51	I8	37	LEU
51	I8	41	ARG
51	I8	49	LYS
51	I8	64	ASP

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Mol	Chain	Res	Type
51	I8	66	VAL
51	I8	67	VAL
51	I8	68	GLU
51	I8	70	GLN
51	I8	77	ARG
51	I8	80	HIS
52	J8	4	VAL
52	J8	14	VAL
52	J8	30	VAL
52	J8	33	LYS
52	J8	34	THR
52	J8	35	THR
52	J8	41	ARG
52	J8	46	LEU
52	J8	50	ARG
52	J8	53	VAL
52	J8	56	GLN
52	J8	61	ARG
52	J8	65	SER
52	J8	68	PRO
52	J8	72	GLU
52	J8	74	VAL
52	J8	78	LYS
52	J8	80	LEU
52	J8	81	LYS
52	J8	82	LEU
52	J8	83	GLU
52	J8	85	LEU
52	J8	88	LYS
52	J8	90	ILE
52	J8	93	GLU
52	J8	94	LEU
53	K8	3	LEU
53	K8	15	LYS
53	K8	17	SER
53	K8	19	VAL
53	K8	23	LYS
53	K8	24	LEU
53	K8	32	LEU
53	K8	35	LEU
53	K8	41	ILE
53	K8	44	LEU

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Mol	Chain	Res	Type
53	K8	47	ASN
53	K8	48	HIS
53	K8	50	ILE
53	K8	51	ARG
53	K8	53	LEU
53	K8	55	ARG
53	K8	59	ARG
53	K8	61	LEU
53	K8	62	THR
53	K8	64	LEU
53	K8	66	GLU
53	K8	67	LYS
54	L8	4	LEU
54	L8	8	LEU
54	L8	9	VAL
54	L8	11	SER
54	L8	13	ILE
54	L8	28	LEU
54	L8	31	LEU
54	L8	32	GLN
54	L8	37	LEU
54	L8	40	THR
54	L8	54	VAL
54	L8	58	VAL
54	L8	59	VAL
55	M8	2	LYS
55	M8	5	ILE
55	M8	6	HIS
55	M8	10	VAL
55	M8	23	GLU
55	M8	27	THR
55	M8	31	ILE
55	M8	34	GLU
55	M8	36	CYS
55	M8	38	LYS
55	M8	39	CYS
55	M8	43	TYR
55	M8	44	THR
56	N8	3	LYS
56	N8	6	VAL
56	N8	11	THR
56	N8	16	ARG

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Mol	Chain	Res	Type
56	N8	26	THR
56	N8	29	THR
56	N8	31	VAL
56	N8	35	GLU
56	N8	37	LYS
56	N8	40	LYS
56	N8	44	THR
57	O8	9	LEU
57	O8	10	LEU
57	O8	11	LEU
57	O8	12	GLU
57	O8	17	LYS
57	O8	19	ARG
57	O8	24	GLU
57	O8	27	LYS
57	O8	34	LEU
57	O8	36	LEU
57	O8	37	ARG
57	O8	39	TYR
57	O8	44	ARG
57	O8	52	VAL
58	P8	1	MET
58	P8	8	ASN
58	P8	15	THR
58	P8	22	MET
58	P8	32	LYS
58	P8	43	THR
59	Q8	4	MET
59	Q8	6	THR
59	Q8	14	VAL
59	Q8	19	SER
59	Q8	23	VAL
59	Q8	29	LYS
59	Q8	35	GLN
59	Q8	37	SER
59	Q8	40	GLU
59	Q8	41	ILE
59	Q8	46	ARG
59	Q8	52	LYS
59	Q8	59	LYS
59	Q8	62	LEU
2	12	4	GLU

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Mol	Chain	Res	Type
2	12	11	LEU
2	12	15	VAL
2	12	19	HIS
2	12	20	GLU
2	12	22	LYS
2	12	23	ARG
2	12	30	ARG
2	12	32	ILE
2	12	37	ASN
2	12	42	ILE
2	12	44	LEU
2	12	45	GLN
2	12	48	MET
2	12	49	GLU
2	12	52	GLU
2	12	55	PHE
2	12	56	ARG
2	12	58	ILE
2	12	75	LYS
2	12	76	GLN
2	12	80	ILE
2	12	90	MET
2	12	95	GLN
2	12	106	LYS
2	12	107	THR
2	12	111	ARG
2	12	112	VAL
2	12	116	GLU
2	12	121	LEU
2	12	128	GLU
2	12	129	GLU
2	12	137	ARG
2	12	142	LEU
2	12	145	LEU
2	12	147	LYS
2	12	150	SER
2	12	153	ARG
2	12	155	LEU
2	12	158	LEU
2	12	163	PHE
2	12	165	VAL
2	12	169	LYS

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Mol	Chain	Res	Type
2	12	172	ILE
2	12	187	LEU
2	12	192	SER
2	12	196	LEU
2	12	197	VAL
2	12	204	ASN
2	12	221	LEU
2	12	233	SER
2	12	239	VAL
3	22	3	ASN
3	22	5	ILE
3	22	11	ARG
3	22	14	ILE
3	22	27	LYS
3	22	28	GLN
3	22	34	LEU
3	22	54	ARG
3	22	55	VAL
3	22	59	ARG
3	22	68	VAL
3	22	70	VAL
3	22	75	VAL
3	22	84	ILE
3	22	86	VAL
3	22	88	ARG
3	22	94	LEU
3	22	98	ASN
3	22	103	VAL
3	22	108	ASN
3	22	115	LEU
3	22	120	VAL
3	22	134	ILE
3	22	139	GLN
3	22	141	VAL
3	22	154	SER
3	22	167	TRP
3	22	172	ARG
3	22	178	LEU
3	22	181	ASN
3	22	191	THR
3	22	193	TYR
3	22	195	VAL

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Mol	Chain	Res	Type
3	22	196	LEU
3	22	198	VAL
3	22	202	ILE
4	32	3	ARG
4	32	8	VAL
4	32	12	CYS
4	32	14	ARG
4	32	17	VAL
4	32	21	LEU
4	32	24	GLU
4	32	30	LYS
4	32	45	GLN
4	32	52	SER
4	32	53	ASP
4	32	64	LEU
4	32	73	ARG
4	32	76	ARG
4	32	83	SER
4	32	85	LYS
4	32	89	THR
4	32	94	LEU
4	32	96	LEU
4	32	104	VAL
4	32	120	LEU
4	32	122	ARG
4	32	127	THR
4	32	135	LEU
4	32	137	SER
4	32	148	VAL
4	32	150	GLU
4	32	151	LYS
4	32	155	LEU
4	32	190	ASP
4	32	192	GLU
4	32	194	LEU
4	32	200	GLU
4	32	205	GLU
5	42	6	PHE
5	42	10	MET
5	42	12	LEU
5	42	13	ILE
5	42	14	ARG

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Mol	Chain	Res	Type
5	42	16	THR
5	42	25	ARG
5	42	31	LEU
5	42	38	GLN
5	42	41	VAL
5	42	47	LYS
5	42	53	LEU
5	42	66	MET
5	42	68	GLU
5	42	75	THR
5	42	79	GLU
5	42	81	GLU
5	42	83	GLU
5	42	87	SER
5	42	90	VAL
5	42	91	LEU
5	42	100	VAL
5	42	101	ILE
5	42	109	ILE
5	42	110	LEU
5	42	112	LEU
5	42	115	VAL
5	42	118	ILE
5	42	121	LYS
5	42	126	ARG
5	42	137	GLU
5	42	141	GLN
5	42	144	THR
5	42	145	LYS
5	42	150	ARG
5	42	151	LEU
6	52	3	ARG
6	52	14	LEU
6	52	16	GLN
6	52	19	LEU
6	52	21	LEU
6	52	25	ILE
6	52	45	LEU
6	52	46	ARG
6	52	54	LYS
6	52	64	GLN
6	52	72	VAL

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Mol	Chain	Res	Type
6	52	75	LEU
6	52	78	GLU
6	52	83	ASP
6	52	85	VAL
6	52	93	SER
7	62	8	GLU
7	62	9	VAL
7	62	12	LEU
7	62	13	GLN
7	62	38	LEU
7	62	45	ASP
7	62	48	LYS
7	62	52	GLU
7	62	54	THR
7	62	66	VAL
7	62	67	GLU
7	62	70	LYS
7	62	75	VAL
7	62	89	MET
7	62	94	ARG
7	62	97	GLN
7	62	98	SER
7	62	118	VAL
7	62	120	ILE
7	62	124	LEU
7	62	131	LYS
7	62	135	VAL
7	62	137	LYS
7	62	138	LYS
7	62	142	GLU
7	62	144	MET
7	62	146	GLU
8	72	1	MET
8	72	2	LEU
8	72	11	THR
8	72	13	ILE
8	72	23	SER
8	72	45	ILE
8	72	54	ASP
8	72	56	LYS
8	72	77	GLU
8	72	82	HIS

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Mol	Chain	Res	Type
8	72	91	ARG
8	72	97	VAL
8	72	99	GLU
8	72	102	ARG
8	72	109	ILE
8	72	119	LEU
8	72	121	ASP
8	72	127	LEU
8	72	129	VAL
9	82	10	ARG
9	82	12	GLU
9	82	18	PHE
9	82	19	LEU
9	82	20	ARG
9	82	27	THR
9	82	28	VAL
9	82	34	ASN
9	82	35	GLU
9	82	47	LEU
9	82	56	LEU
9	82	62	TYR
9	82	79	LEU
9	82	85	LEU
9	82	87	GLN
9	82	89	ASN
9	82	95	LYS
9	82	96	LEU
9	82	99	LEU
9	82	110	GLU
9	82	112	LYS
9	82	113	LYS
9	82	117	HIS
9	82	118	LYS
10	1A	6	ILE
10	1A	13	HIS
10	1A	16	LEU
10	1A	17	ASP
10	1A	25	GLU
10	1A	33	GLN
10	1A	47	PHE
10	1A	49	VAL
10	1A	57	LYS

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Mol	Chain	Res	Type
10	1A	62	HIS
10	1A	65	LEU
10	1A	70	ARG
10	1A	74	ILE
10	1A	76	ASN
10	1A	79	ARG
10	1A	80	LYS
10	1A	83	GLU
10	1A	85	LEU
10	1A	86	MET
10	1A	87	THR
10	1A	92	THR
10	1A	96	ILE
10	1A	98	ILE
11	2A	14	VAL
11	2A	24	SER
11	2A	29	ILE
11	2A	31	THR
11	2A	41	THR
11	2A	48	ILE
11	2A	54	ARG
11	2A	63	LEU
11	2A	77	MET
11	2A	79	SER
11	2A	80	VAL
11	2A	81	ASP
11	2A	84	VAL
11	2A	93	GLN
11	2A	96	ARG
11	2A	99	GLN
11	2A	103	LEU
11	2A	104	GLN
11	2A	105	VAL
11	2A	106	LYS
11	2A	109	VAL
11	2A	114	VAL
11	2A	122	LYS
12	3A	7	ILE
12	3A	18	VAL
12	3A	20	LYS
12	3A	23	LYS
12	3A	24	VAL

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Mol	Chain	Res	Type
12	3A	27	LEU
12	3A	34	ARG
12	3A	41	ARG
12	3A	42	THR
12	3A	47	LYS
12	3A	54	LYS
12	3A	60	LEU
12	3A	64	TYR
12	3A	66	VAL
12	3A	75	HIS
12	3A	83	VAL
12	3A	85	ILE
12	3A	102	ARG
12	3A	106	ASP
12	3A	122	THR
13	4A	8	GLU
13	4A	9	ILE
13	4A	12	ASN
13	4A	13	LYS
13	4A	16	ASP
13	4A	17	VAL
13	4A	22	ILE
13	4A	25	ILE
13	4A	34	LEU
13	4A	35	GLU
13	4A	37	THR
13	4A	39	ILE
13	4A	47	ASP
13	4A	48	LEU
13	4A	52	GLU
13	4A	55	ARG
13	4A	58	GLU
13	4A	64	TRP
13	4A	66	LEU
13	4A	73	GLU
13	4A	74	VAL
13	4A	79	LYS
13	4A	80	ARG
13	4A	81	LEU
13	4A	82	MET
13	4A	83	ASP
13	4A	88	ARG

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Mol	Chain	Res	Type
13	4A	94	ARG
13	4A	103	THR
13	4A	106	ASN
13	4A	108	ARG
13	4A	116	THR
14	5A	6	LEU
14	5A	9	LYS
14	5A	11	LYS
14	5A	12	ARG
14	5A	17	LYS
14	5A	18	VAL
14	5A	22	THR
14	5A	24	CYS
14	5A	26	ARG
14	5A	29	ARG
14	5A	33	VAL
14	5A	42	ILE
14	5A	44	LEU
14	5A	50	LYS
14	5A	53	LEU
15	6A	3	ILE
15	6A	4	THR
15	6A	5	LYS
15	6A	7	GLU
15	6A	10	LYS
15	6A	17	ARG
15	6A	22	THR
15	6A	27	VAL
15	6A	31	LEU
15	6A	39	LEU
15	6A	41	GLU
15	6A	45	VAL
15	6A	48	LYS
15	6A	66	LEU
15	6A	79	ARG
15	6A	84	LYS
15	6A	87	ILE
16	7A	2	VAL
16	7A	6	LEU
16	7A	11	SER
16	7A	21	VAL
16	7A	22	THR

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Mol	Chain	Res	Type
16	7A	27	LYS
16	7A	45	THR
16	7A	47	ASP
16	7A	53	VAL
16	7A	54	GLU
16	7A	55	ARG
16	7A	61	SER
16	7A	62	VAL
16	7A	65	GLN
16	7A	67	THR
17	8A	10	VAL
17	8A	12	SER
17	8A	14	LYS
17	8A	16	GLN
17	8A	26	GLN
17	8A	31	LEU
17	8A	34	LYS
17	8A	38	ARG
17	8A	49	GLU
17	8A	52	LYS
17	8A	60	ILE
17	8A	63	ARG
17	8A	68	ARG
17	8A	81	ARG
17	8A	85	VAL
17	8A	87	LYS
17	8A	89	LEU
17	8A	91	ARG
17	8A	99	SER
18	9A	23	LYS
18	9A	26	LEU
18	9A	29	PHE
18	9A	32	ARG
18	9A	37	VAL
18	9A	44	LEU
18	9A	47	THR
18	9A	50	ILE
18	9A	53	ARG
18	9A	55	ARG
18	9A	58	LEU
18	9A	65	ILE
18	9A	84	LYS

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Mol	Chain	Res	Type
19	AA	7	LYS
19	AA	14	HIS
19	AA	20	LEU
19	AA	21	GLU
19	AA	23	ASN
19	AA	37	ARG
19	AA	40	ILE
19	AA	41	VAL
19	AA	43	GLU
19	AA	58	VAL
19	AA	60	VAL
19	AA	63	THR
19	AA	65	ASN
19	AA	71	LEU
19	AA	74	PHE
20	BA	10	LEU
20	BA	13	LEU
20	BA	15	ARG
20	BA	24	LEU
20	BA	33	ILE
20	BA	37	SER
20	BA	41	ILE
20	BA	53	LEU
20	BA	55	ILE
20	BA	56	MET
20	BA	60	GLU
20	BA	72	LEU
20	BA	73	HIS
20	BA	74	LYS
20	BA	75	ASN
20	BA	85	MET
20	BA	86	ARG
20	BA	87	LYS
20	BA	89	ARG
20	BA	90	GLN
20	BA	99	LEU
21	1B	10	ARG
28	79	8	ARG
28	79	10	LEU
28	79	14	VAL
28	79	21	THR
28	79	42	GLU

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Mol	Chain	Res	Type
28	79	46	LYS
28	79	172	HIS
28	79	183	GLU
28	79	193	ILE
28	79	205	LYS
28	79	212	VAL
28	79	216	THR
28	79	224	ILE
29	19	13	ARG
29	19	18	VAL
29	19	24	ILE
29	19	27	THR
29	19	28	GLU
29	19	33	LEU
29	19	37	LEU
29	19	40	THR
29	19	43	ARG
29	19	45	ASN
29	19	49	ILE
29	19	54	ARG
29	19	64	ILE
29	19	65	ILE
29	19	68	LYS
29	19	79	VAL
29	19	87	ASN
29	19	94	LEU
29	19	98	VAL
29	19	99	ASP
29	19	103	ARG
29	19	105	ILE
29	19	111	LEU
29	19	138	VAL
29	19	147	LEU
29	19	155	LEU
29	19	157	ARG
29	19	162	SER
29	19	169	GLU
29	19	171	ASP
29	19	173	VAL
29	19	182	LEU
29	19	192	THR
29	19	193	VAL

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Mol	Chain	Res	Type
29	19	204	ILE
29	19	211	ARG
29	19	212	SER
29	19	217	ARG
29	19	226	MET
29	19	242	ARG
29	19	244	ARG
29	19	253	GLN
29	19	255	LYS
29	19	257	LEU
29	19	260	ARG
29	19	262	ARG
29	19	266	SER
29	19	267	SER
29	19	268	ARG
29	19	271	ILE
30	29	5	LEU
30	29	9	VAL
30	29	11	MET
30	29	12	THR
30	29	25	VAL
30	29	26	ILE
30	29	27	LEU
30	29	33	VAL
30	29	36	ARG
30	29	42	ASP
30	29	45	THR
30	29	47	VAL
30	29	54	GLN
30	29	57	LYS
30	29	59	VAL
30	29	63	LEU
30	29	66	HIS
30	29	73	GLU
30	29	75	VAL
30	29	76	ARG
30	29	77	ILE
30	29	79	ARG
30	29	80	GLU
30	29	82	ARG
30	29	91	VAL
30	29	93	VAL

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Mol	Chain	Res	Type
30	29	111	ARG
30	29	144	ARG
30	29	154	LYS
30	29	167	VAL
30	29	170	LEU
30	29	175	VAL
30	29	181	LEU
30	29	182	LEU
30	29	184	VAL
30	29	188	VAL
30	29	200	GLU
30	29	201	THR
30	29	203	LYS
31	39	3	GLU
31	39	4	VAL
31	39	6	VAL
31	39	8	GLN
31	39	11	VAL
31	39	13	SER
31	39	15	SER
31	39	18	ARG
31	39	19	GLU
31	39	20	LEU
31	39	29	ASN
31	39	46	ARG
31	39	50	SER
31	39	53	THR
31	39	62	ARG
31	39	66	PRO
31	39	67	GLN
31	39	68	LYS
31	39	74	ARG
31	39	82	ILE
31	39	88	VAL
31	39	105	VAL
31	39	106	ARG
31	39	107	LYS
31	39	110	LEU
31	39	123	LEU
31	39	125	LEU
31	39	126	VAL
31	39	137	LYS

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Mol	Chain	Res	Type
31	39	140	LEU
31	39	144	LYS
31	39	152	GLU
31	39	153	SER
31	39	154	VAL
31	39	155	LEU
31	39	158	THR
31	39	165	ARG
31	39	169	ASN
31	39	174	VAL
31	39	175	THR
31	39	187	VAL
31	39	192	LEU
31	39	193	VAL
31	39	194	MET
31	39	195	ASP
31	39	197	ASP
31	39	201	VAL
31	39	203	GLN
31	39	204	ASN
31	39	205	ARG
32	49	3	LEU
32	49	7	LEU
32	49	14	GLU
32	49	19	LEU
32	49	26	GLN
32	49	28	VAL
32	49	33	ARG
32	49	39	ILE
32	49	40	ASN
32	49	43	LEU
32	49	45	GLU
32	49	47	LYS
32	49	53	LEU
32	49	60	LEU
32	49	62	LEU
32	49	67	LYS
32	49	70	VAL
32	49	76	SER
32	49	80	PHE
32	49	82	LEU
32	49	88	ILE

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Mol	Chain	Res	Type
32	49	91	ARG
32	49	96	ARG
32	49	104	GLU
32	49	106	LEU
32	49	109	VAL
32	49	111	LEU
32	49	114	ILE
32	49	116	ASP
32	49	123	ASN
32	49	130	ASN
32	49	133	LEU
32	49	136	ARG
32	49	139	LEU
32	49	140	ILE
32	49	148	MET
32	49	150	ASP
32	49	153	ARG
32	49	156	ASP
32	49	159	VAL
32	49	160	VAL
32	49	164	GLU
32	49	176	LEU
32	49	181	ARG
33	59	9	ILE
33	59	13	LYS
33	59	23	ARG
33	59	32	GLU
33	59	41	MET
33	59	45	VAL
33	59	50	VAL
33	59	51	ARG
33	59	70	THR
33	59	81	GLU
33	59	83	TYR
33	59	85	LYS
33	59	86	GLU
33	59	88	LEU
33	59	89	ILE
33	59	95	ARG
33	59	98	LEU
33	59	101	ARG
33	59	103	LEU

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Mol	Chain	Res	Type
33	59	104	GLU
33	59	105	LEU
33	59	116	GLU
33	59	125	VAL
33	59	127	GLU
33	59	129	THR
33	59	131	VAL
33	59	139	GLN
33	59	143	GLN
33	59	148	ILE
33	59	152	ARG
33	59	153	LYS
33	59	158	HIS
33	59	162	ILE
33	59	171	LEU
35	69	1	MET
35	69	2	LYS
35	69	4	ILE
35	69	6	LEU
35	69	9	LEU
35	69	10	GLU
35	69	15	VAL
35	69	27	ARG
35	69	37	VAL
35	69	38	LEU
35	69	40	THR
35	69	41	GLU
35	69	47	LEU
35	69	48	GLU
35	69	58	LEU
35	69	61	ARG
35	69	68	LEU
35	69	69	LYS
35	69	75	LEU
35	69	76	THR
35	69	77	LEU
35	69	78	THR
35	69	85	GLU
35	69	86	THR
35	69	93	THR
35	69	95	LYS
35	69	103	ARG

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Mol	Chain	Res	Type
35	69	105	HIS
35	69	108	THR
35	69	109	ILE
35	69	114	LEU
35	69	117	GLU
35	69	120	ILE
35	69	122	GLU
35	69	125	GLU
35	69	128	LEU
35	69	129	THR
35	69	133	HIS
35	69	136	VAL
35	69	138	ILE
35	69	140	LEU
35	69	141	LYS
35	69	144	VAL
38	15	5	VAL
38	15	9	VAL
38	15	12	ARG
38	15	14	VAL
38	15	15	LEU
38	15	28	THR
38	15	29	LYS
38	15	32	THR
38	15	33	LEU
38	15	34	LEU
38	15	38	HIS
38	15	41	ASP
38	15	42	TRP
38	15	43	THR
38	15	46	VAL
38	15	58	ASP
38	15	59	LYS
38	15	61	ARG
38	15	67	LEU
38	15	68	GLU
38	15	69	GLN
38	15	71	ILE
38	15	83	LYS
38	15	85	ILE
38	15	89	LYS
38	15	90	MET

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Mol	Chain	Res	Type
38	15	93	THR
38	15	94	HIS
38	15	99	LEU
38	15	133	GLN
38	15	136	GLU
39	25	5	GLN
39	25	8	LEU
39	25	10	VAL
39	25	14	THR
39	25	20	MET
39	25	22	ILE
39	25	23	ARG
39	25	24	VAL
39	25	26	LYS
39	25	39	ILE
39	25	43	VAL
39	25	47	ILE
39	25	49	ARG
39	25	58	VAL
39	25	70	LYS
39	25	80	ASP
39	25	86	ILE
39	25	87	ILE
39	25	91	LEU
39	25	92	GLU
39	25	96	THR
39	25	97	ARG
39	25	107	ARG
39	25	114	ILE
39	25	120	GLU
40	35	1	MET
40	35	5	ASP
40	35	18	ARG
40	35	19	VAL
40	35	21	ARG
40	35	30	THR
40	35	36	LYS
40	35	41	ARG
40	35	45	LEU
40	35	52	GLU
40	35	59	LEU
40	35	62	LEU

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Mol	Chain	Res	Type
40	35	67	MET
40	35	75	ILE
40	35	76	LYS
40	35	77	ARG
40	35	83	VAL
40	35	84	ASN
40	35	85	LEU
40	35	86	LYS
40	35	87	ASP
40	35	88	LEU
40	35	91	PHE
40	35	95	VAL
40	35	96	THR
40	35	99	LEU
40	35	105	LEU
40	35	111	ARG
40	35	112	LEU
40	35	123	LEU
40	35	124	LYS
40	35	125	VAL
40	35	138	LEU
40	35	144	GLU
40	35	147	LEU
41	45	3	MET
41	45	10	ARG
41	45	14	ARG
41	45	16	ARG
41	45	18	LYS
41	45	21	THR
41	45	22	LYS
41	45	32	TYR
41	45	38	GLU
41	45	45	GLN
41	45	51	ARG
41	45	56	ARG
41	45	58	PHE
41	45	60	ARG
41	45	63	LYS
41	45	66	ILE
41	45	79	LEU
41	45	83	MET
41	45	85	LYS

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Mol	Chain	Res	Type
41	45	89	ASN
41	45	90	VAL
41	45	91	GLU
41	45	98	LYS
41	45	102	VAL
41	45	103	MET
41	45	105	GLU
41	45	106	VAL
41	45	110	THR
41	45	118	LEU
41	45	129	THR
41	45	132	VAL
41	45	133	ARG
41	45	134	ARG
41	45	135	ASP
41	45	138	ASP
42	55	1	MET
42	55	18	LEU
42	55	23	ASN
42	55	24	GLN
42	55	27	SER
42	55	28	LEU
42	55	29	LEU
42	55	34	ILE
42	55	35	THR
42	55	44	LEU
42	55	48	VAL
42	55	64	ARG
42	55	65	LEU
42	55	66	VAL
42	55	67	LEU
42	55	75	LEU
42	55	79	LEU
42	55	82	GLU
42	55	96	ARG
42	55	97	VAL
42	55	102	GLU
43	65	3	ARG
43	65	12	PHE
43	65	13	ARG
43	65	14	VAL
43	65	16	ASN

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Mol	Chain	Res	Type
43	65	17	ARG
43	65	18	ILE
43	65	20	ARG
43	65	23	ARG
43	65	26	LEU
43	65	27	SER
43	65	30	ARG
43	65	36	TYR
43	65	38	GLN
43	65	40	ILE
43	65	42	ASP
43	65	52	SER
43	65	59	LYS
43	65	62	LYS
43	65	69	VAL
43	65	78	LEU
43	65	85	VAL
43	65	89	ARG
43	65	95	HIS
43	65	106	ARG
43	65	107	GLU
43	65	110	LEU
43	65	111	GLU
44	75	2	ASN
44	75	6	LEU
44	75	8	LYS
44	75	13	ARG
44	75	17	THR
44	75	18	ASP
44	75	19	LEU
44	75	21	GLU
44	75	28	VAL
44	75	36	GLU
44	75	49	VAL
44	75	50	ILE
44	75	51	ARG
44	75	62	THR
44	75	64	ARG
44	75	66	VAL
44	75	86	ILE
44	75	88	ILE
44	75	89	VAL

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Mol	Chain	Res	Type
44	75	93	ARG
44	75	105	LEU
44	75	106	SER
44	75	107	ASP
44	75	112	ARG
44	75	113	LYS
44	75	115	ARG
44	75	120	ARG
44	75	123	GLN
44	75	124	ASP
44	75	132	LYS
44	75	133	GLU
44	75	134	GLU
45	85	5	LYS
45	85	8	VAL
45	85	20	LEU
45	85	27	LEU
45	85	31	SER
45	85	33	ARG
45	85	59	ARG
45	85	64	ARG
45	85	72	HIS
45	85	74	LEU
45	85	88	ILE
45	85	92	ARG
45	85	97	ASP
45	85	100	VAL
45	85	104	GLN
45	85	105	VAL
45	85	114	LYS
46	95	7	THR
46	95	18	LEU
46	95	19	LYS
46	95	34	GLU
46	95	35	LEU
46	95	40	LEU
46	95	44	LYS
46	95	46	VAL
46	95	61	VAL
46	95	66	ARG
46	95	71	LEU
46	95	75	PHE

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Mol	Chain	Res	Type
46	95	79	VAL
46	95	85	LYS
46	95	88	ARG
46	95	89	GLN
46	95	93	GLU
46	95	95	LEU
46	95	98	GLU
46	95	99	ILE
47	A5	1	MET
47	A5	11	ARG
47	A5	18	ARG
47	A5	23	LEU
47	A5	29	LEU
47	A5	31	GLU
47	A5	39	THR
47	A5	41	LYS
47	A5	51	LEU
47	A5	52	GLU
47	A5	59	VAL
47	A5	63	ASP
47	A5	65	LEU
47	A5	67	ASP
47	A5	70	TYR
47	A5	76	VAL
47	A5	78	GLU
47	A5	84	ARG
47	A5	85	VAL
47	A5	88	ARG
47	A5	92	ARG
47	A5	95	ILE
47	A5	96	ILE
47	A5	100	THR
47	A5	103	ILE
47	A5	107	LEU
47	A5	110	LYS
48	B5	27	THR
48	B5	30	VAL
48	B5	35	THR
48	B5	36	LYS
48	B5	40	LYS
48	B5	44	GLU
48	B5	48	LYS

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Mol	Chain	Res	Type
48	B5	52	VAL
48	B5	53	LYS
48	B5	59	VAL
48	B5	63	LYS
48	B5	68	ARG
48	B5	76	ARG
48	B5	80	ILE
48	B5	81	VAL
48	B5	83	VAL
48	B5	88	LYS
48	B5	93	GLU
49	C5	19	LYS
49	C5	24	VAL
49	C5	29	GLU
49	C5	31	LEU
49	C5	37	VAL
49	C5	38	ILE
49	C5	40	GLU
49	C5	43	ASN
49	C5	46	LYS
49	C5	52	SER
49	C5	55	TYR
49	C5	57	GLN
49	C5	61	ILE
49	C5	63	LYS
49	C5	75	ILE
49	C5	85	VAL
49	C5	86	ARG
49	C5	87	LYS
49	C5	88	LYS
49	C5	89	PHE
49	C5	90	LEU
49	C5	91	GLU
49	C5	96	ILE
49	C5	99	CYS
50	D5	2	GLU
50	D5	5	LEU
50	D5	6	LYS
50	D5	8	TYR
50	D5	16	SER
50	D5	18	LEU
50	D5	19	ARG

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Mol	Chain	Res	Type
50	D5	24	LEU
50	D5	28	MET
50	D5	42	VAL
50	D5	59	LEU
50	D5	61	LEU
50	D5	67	LEU
50	D5	70	LEU
50	D5	71	VAL
50	D5	73	GLN
50	D5	76	LEU
50	D5	77	ASP
50	D5	81	ARG
50	D5	82	ARG
50	D5	87	ASP
50	D5	88	PHE
50	D5	91	LEU
50	D5	94	GLU
50	D5	97	GLU
50	D5	98	MET
50	D5	100	VAL
50	D5	111	VAL
50	D5	112	ARG
50	D5	119	GLU
50	D5	120	ILE
50	D5	122	ARG
50	D5	126	VAL
50	D5	132	ASN
50	D5	137	ILE
50	D5	148	ASP
50	D5	150	LEU
50	D5	157	LEU
50	D5	170	THR
50	D5	174	VAL
50	D5	175	VAL
50	D5	180	VAL
50	D5	185	GLU
50	D5	186	GLU
50	D5	197	ILE
51	E5	9	SER
51	E5	11	ARG
51	E5	12	ASN
51	E5	17	GLN

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Mol	Chain	Res	Type
51	E5	19	LYS
51	E5	20	ARG
51	E5	23	VAL
51	E5	32	ARG
51	E5	36	ILE
51	E5	43	THR
51	E5	49	LYS
51	E5	63	VAL
51	E5	82	ARG
52	F5	3	LYS
52	F5	4	VAL
52	F5	11	ARG
52	F5	17	SER
52	F5	25	LYS
52	F5	27	GLU
52	F5	35	THR
52	F5	37	ILE
52	F5	38	SER
52	F5	39	LYS
52	F5	41	ARG
52	F5	42	GLN
52	F5	46	LEU
52	F5	51	VAL
52	F5	52	ARG
52	F5	59	THR
52	F5	62	VAL
52	F5	67	ILE
52	F5	73	LEU
52	F5	76	ARG
52	F5	78	LYS
52	F5	80	LEU
52	F5	82	LEU
52	F5	89	GLU
52	F5	90	ILE
52	F5	91	LYS
52	F5	92	LYS
53	G5	5	GLU
53	G5	8	LYS
53	G5	10	LEU
53	G5	12	GLU
53	G5	15	LYS
53	G5	24	LEU

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Mol	Chain	Res	Type
53	G5	32	LEU
53	G5	35	LEU
53	G5	41	ILE
53	G5	44	LEU
53	G5	47	ASN
53	G5	48	HIS
53	G5	50	ILE
53	G5	53	LEU
53	G5	60	LEU
53	G5	62	THR
53	G5	64	LEU
53	G5	65	ASN
53	G5	66	GLU
53	G5	67	LYS
53	G5	68	ARG
54	H5	23	LEU
54	H5	24	LYS
54	H5	32	GLN
54	H5	37	LEU
54	H5	40	THR
54	H5	53	LEU
54	H5	54	VAL
54	H5	59	VAL
56	J5	6	VAL
56	J5	16	ARG
56	J5	25	LEU
56	J5	26	THR
56	J5	29	THR
56	J5	35	GLU
56	J5	36	CYS
56	J5	48	GLU
56	J5	55	ARG
58	L5	1	MET
58	L5	3	ARG
58	L5	4	THR
58	L5	8	ASN
58	L5	29	LYS
58	L5	42	LEU
58	L5	43	THR
59	M5	4	MET
59	M5	6	THR
59	M5	8	LYS

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Mol	Chain	Res	Type
59	M5	25	MET
59	M5	30	ARG
59	M5	32	LEU
59	M5	35	GLN
59	M5	56	GLU
59	M5	57	ARG
59	M5	58	ILE
59	M5	59	LYS
59	M5	60	LEU
59	M5	61	LEU
59	M5	62	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (68) such sidechains are listed below:

Mol	Chain	Res	Type
2	1E	40	HIS
3	2E	104	GLN
4	3E	42	GLN
4	3E	160	GLN
5	4E	141	GLN
6	5E	13	ASN
6	5E	18	GLN
6	5E	64	GLN
6	5E	73	ASN
7	6E	106	GLN
9	8E	23	ASN
10	1I	84	GLN
13	4I	12	ASN
15	6I	13	GLN
19	AI	65	ASN
20	BI	16	HIS
28	71	44	HIS
30	21	135	HIS
31	31	203	GLN
35	61	104	GLN
36	38	30	GLN
37	48	116	ASN
34	28	14	GLN
40	78	84	ASN
42	98	71	GLN
43	A8	84	GLN
44	B8	55	ASN

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Mol	Chain	Res	Type
44	B8	58	ASN
45	C8	75	ASN
49	G8	6	HIS
50	H8	34	ASN
53	K8	38	GLN
57	O8	46	HIS
59	Q8	35	GLN
59	Q8	43	GLN
2	12	140	HIS
2	12	212	GLN
3	22	98	ASN
3	22	104	GLN
3	22	110	ASN
7	62	110	GLN
9	82	124	GLN
10	1A	13	HIS
12	3A	75	HIS
13	4A	101	GLN
16	7A	16	HIS
28	79	44	HIS
29	19	44	ASN
29	19	126	GLN
30	29	35	GLN
30	29	135	HIS
30	29	180	ASN
31	39	40	GLN
31	39	169	ASN
32	49	66	GLN
35	69	105	HIS
38	15	69	GLN
39	25	5	GLN
41	45	89	ASN
41	45	113	GLN
42	55	13	HIS
43	65	16	ASN
44	75	2	ASN
44	75	84	GLN
46	95	80	GLN
47	A5	111	HIS
50	D5	75	ASN
53	G5	48	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1511/1522 (99%)	383 (25%)	36 (2%)
1	1G	1508/1522 (99%)	381 (25%)	37 (2%)
22	1K	67/77 (87%)	32 (47%)	5 (7%)
22	1L	70/77 (90%)	29 (41%)	6 (8%)
23	2K	76/77 (98%)	19 (25%)	2 (2%)
23	2L	76/77 (98%)	18 (23%)	1 (1%)
24	3K	69/77 (89%)	37 (53%)	4 (5%)
24	3L	70/77 (90%)	37 (52%)	3 (4%)
25	4K	20/27 (74%)	14 (70%)	1 (5%)
25	4L	15/27 (55%)	9 (60%)	0
26	14	2892/2917 (99%)	723 (25%)	51 (1%)
26	1H	2893/2917 (99%)	707 (24%)	67 (2%)
27	16	121/122 (99%)	28 (23%)	2 (1%)
27	1J	121/122 (99%)	32 (26%)	1 (0%)
All	All	9509/9638 (98%)	2449 (25%)	216 (2%)

All (2449) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	2	U
1	13	3	G
1	13	4	U
1	13	5	U
1	13	6	G
1	13	8	A
1	13	9	G
1	13	26	A
1	13	31	G
1	13	32	A
1	13	33	A
1	13	39	G
1	13	48	C
1	13	49	U
1	13	50	A
1	13	51	A
1	13	59	A
1	13	60	A
1	13	61	G
1	13	65	U
1	13	66	G
1	13	78	G

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Mol	Chain	Res	Type
1	13	79	G
1	13	82	U
1	13	84	U
1	13	85	U
1	13	86	U
1	13	87	A
1	13	89	U
1	13	90	C
1	13	91	C
1	13	92	G
1	13	93	U
1	13	95	G
1	13	101	A
1	13	108	G
1	13	111	G
1	13	115	G
1	13	116	A
1	13	121	C
1	13	129(A)	G
1	13	130	A
1	13	131	C
1	13	137	C
1	13	143	A
1	13	144	G
1	13	147	G
1	13	151	A
1	13	153	C
1	13	158	G
1	13	161	A
1	13	163	C
1	13	164	U
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
1	13	186(F)	C
1	13	188	U
1	13	189	U
1	13	190	G
1	13	191(A)	G

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Mol	Chain	Res	Type
1	13	195	A
1	13	199	G
1	13	201	C
1	13	209	U
1	13	210	U
1	13	216	G
1	13	220	G
1	13	222	U
1	13	226	G
1	13	231	G
1	13	245	C
1	13	247	G
1	13	250	A
1	13	251	G
1	13	258	G
1	13	262	A
1	13	266	G
1	13	267	C
1	13	281	G
1	13	289	G
1	13	321	A
1	13	328	C
1	13	329	A
1	13	330	C
1	13	332	G
1	13	342	C
1	13	343	U
1	13	344	A
1	13	345	C
1	13	346	G
1	13	347	G
1	13	349	A
1	13	352	C
1	13	353	A
1	13	354	G
1	13	357	G
1	13	367	U
1	13	372	C
1	13	373	A
1	13	382	A
1	13	384	G
1	13	388	G

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Mol	Chain	Res	Type
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	415	A
1	13	422	C
1	13	423	G
1	13	424	G
1	13	429	U
1	13	430	A
1	13	438	G
1	13	440	A
1	13	448	A
1	13	452	A
1	13	455	C
1	13	458	C
1	13	465	A
1	13	466	C
1	13	467	G
1	13	474	G
1	13	485	G
1	13	491	G
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	518	C
1	13	519	C
1	13	521	G
1	13	524	G
1	13	527	G
1	13	532	A
1	13	533	A
1	13	536	C
1	13	547	A
1	13	559	A
1	13	561	U

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Mol	Chain	Res	Type
1	13	562	C
1	13	572	A
1	13	573	A
1	13	576	G
1	13	577	G
1	13	596	C
1	13	607	A
1	13	610	G
1	13	620	C
1	13	626	U
1	13	629	G
1	13	630	G
1	13	632	A
1	13	639	G
1	13	648	A
1	13	653	A
1	13	654	G
1	13	659	U
1	13	665	A
1	13	666	G
1	13	687	A
1	13	688	G
1	13	702	A
1	13	703	G
1	13	704	A
1	13	723	U
1	13	724	G
1	13	747	C
1	13	748	C
1	13	749	C
1	13	753	A
1	13	755	G
1	13	760	G
1	13	764	C
1	13	774	G
1	13	777	A
1	13	787	A
1	13	788	U
1	13	792	A
1	13	793	U
1	13	794	A
1	13	798	G

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Mol	Chain	Res	Type
1	13	802	A
1	13	813	U
1	13	815	A
1	13	817	C
1	13	819	A
1	13	828	A
1	13	836	G
1	13	842	C
1	13	843	U
1	13	848	C
1	13	855	G
1	13	858	G
1	13	859	A
1	13	870	U
1	13	871	U
1	13	872	A
1	13	885	G
1	13	889	A
1	13	890	G
1	13	902	G
1	13	914	A
1	13	922	G
1	13	926	G
1	13	927	G
1	13	931	C
1	13	933	G
1	13	934	C
1	13	936	C
1	13	955	U
1	13	958	A
1	13	960	U
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	980	C
1	13	982	U
1	13	991	U
1	13	992	U

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Mol	Chain	Res	Type
1	13	993	G
1	13	997	U
1	13	999	U
1	13	1002	G
1	13	1004	A
1	13	1008	C
1	13	1009	G
1	13	1012	U
1	13	1021	G
1	13	1023	G
1	13	1024	G
1	13	1025	U
1	13	1026	G
1	13	1028	C
1	13	1028(A)	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	1035	A
1	13	1037	C
1	13	1039	C
1	13	1041	A
1	13	1042	G
1	13	1046	A
1	13	1054	C
1	13	1055	A
1	13	1064	G
1	13	1065	U
1	13	1066	C
1	13	1081	G
1	13	1094	G
1	13	1095	U
1	13	1101	A
1	13	1114	C
1	13	1124	G
1	13	1125	U
1	13	1126	U
1	13	1127	G
1	13	1129	C

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Mol	Chain	Res	Type
1	13	1131	G
1	13	1132	C
1	13	1133	G
1	13	1136	U
1	13	1137	C
1	13	1138	G
1	13	1139	G
1	13	1144	G
1	13	1146	A
1	13	1151	A
1	13	1152	A
1	13	1154	G
1	13	1157	A
1	13	1158	C
1	13	1159	U
1	13	1160	G
1	13	1171	G
1	13	1177	G
1	13	1178	G
1	13	1181	G
1	13	1184	G
1	13	1188	A
1	13	1189	C
1	13	1190	G
1	13	1196	U
1	13	1197	G
1	13	1201	A
1	13	1212	U
1	13	1213	A
1	13	1214	C
1	13	1218	C
1	13	1219	U
1	13	1223	C
1	13	1226	C
1	13	1227	A
1	13	1238	A
1	13	1240	U
1	13	1241	G
1	13	1253	G
1	13	1256	A
1	13	1257	U
1	13	1258	G

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Mol	Chain	Res	Type
1	13	1262	C
1	13	1272	G
1	13	1273	G
1	13	1278	U
1	13	1279	A
1	13	1280	A
1	13	1281	U
1	13	1285	A
1	13	1286	A
1	13	1287	A
1	13	1290	G
1	13	1291	G
1	13	1299	A
1	13	1300	G
1	13	1301	U
1	13	1303	C
1	13	1305	G
1	13	1317	C
1	13	1320	C
1	13	1322	C
1	13	1323	G
1	13	1327	C
1	13	1331	G
1	13	1335	C
1	13	1336	C
1	13	1337	G
1	13	1338	G
1	13	1340	A
1	13	1346	A
1	13	1347	G
1	13	1350	A
1	13	1353	G
1	13	1362(A)	C
1	13	1363	A
1	13	1364	U
1	13	1368	G
1	13	1373	G
1	13	1381	U
1	13	1382	C
1	13	1401	G
1	13	1406	U
1	13	1419	G

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Mol	Chain	Res	Type
1	13	1422	G
1	13	1442	G
1	13	1443	G
1	13	1446	A
1	13	1447	G
1	13	1450	U
1	13	1452	C
1	13	1453	G
1	13	1487	G
1	13	1492	A
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	1507	A
1	13	1517	G
1	13	1520	G
1	13	1529	G
1	13	1530	G
1	13	1534	A
1	13	1535	C
1	13	1536	C
22	1K	2	C
22	1K	3	A
22	1K	4	U
22	1K	6	C
22	1K	7	G
22	1K	8	4SU
22	1K	9	A
22	1K	11	C
22	1K	13	C
22	1K	15	G
22	1K	19	G
22	1K	23	G
22	1K	24	A
22	1K	30	C
22	1K	33	RSP
22	1K	34	U
22	1K	41	C

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Mol	Chain	Res	Type
22	1K	42	G
22	1K	47	7MG
22	1K	50	G
22	1K	57	C
22	1K	61	U
22	1K	63	C
22	1K	64	U
22	1K	65	C
22	1K	69	G
22	1K	70	A
22	1K	73	C
22	1K	74	A
22	1K	75	C
22	1K	76	C
22	1K	77	A
23	2K	2	G
23	2K	6	G
23	2K	8	4SU
23	2K	9	G
23	2K	16	C
23	2K	17	C
23	2K	18	C
23	2K	19	G
23	2K	20	G
23	2K	21	U
23	2K	32	G
23	2K	35	C
23	2K	48	U
23	2K	49	C
23	2K	53	G
23	2K	54	G
23	2K	57	C
23	2K	69	C
23	2K	77	A
24	3K	4	U
24	3K	7	G
24	3K	8	U
24	3K	9	A
24	3K	10	G
24	3K	11	C
24	3K	13	C
24	3K	14	A

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Mol	Chain	Res	Type
24	3K	15	G
24	3K	18	G
24	3K	19	G
24	3K	24	A
24	3K	26	U
24	3K	27	A
24	3K	33	C
24	3K	34	U
24	3K	35	A
24	3K	36	C
24	3K	37	G
24	3K	38	A
24	3K	44	G
24	3K	45	C
24	3K	46	G
24	3K	47	G
24	3K	48	U
24	3K	49	C
24	3K	56	U
24	3K	57	C
24	3K	58	G
24	3K	59	A
24	3K	60	A
24	3K	63	C
24	3K	68	G
24	3K	72	G
24	3K	73	C
24	3K	74	A
24	3K	77	A
25	4K	8	A
25	4K	11	U
25	4K	12	A
25	4K	13	A
25	4K	14	A
25	4K	15	A
25	4K	18	G
25	4K	19	C
25	4K	20	G
25	4K	22	A
25	4K	23	A
25	4K	24	A
25	4K	25	A

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Mol	Chain	Res	Type
25	4K	26	A
26	1H	6	A
26	1H	12	U
26	1H	13	A
26	1H	15	G
26	1H	34	C
26	1H	35	G
26	1H	46	C
26	1H	51	G
26	1H	54	G
26	1H	56	A
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	85	G
26	1H	95	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	125	G
26	1H	126	A
26	1H	138	G
26	1H	140	A
26	1H	155	C
26	1H	163	U
26	1H	164	U
26	1H	165	U
26	1H	171	G
26	1H	181	A
26	1H	188	G
26	1H	196	A
26	1H	197	A
26	1H	199	A
26	1H	213	A
26	1H	214	G
26	1H	215	G

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Mol	Chain	Res	Type
26	1H	216	A
26	1H	222	A
26	1H	223	A
26	1H	224	G
26	1H	227	A
26	1H	228	A
26	1H	229	A
26	1H	232	G
26	1H	233	A
26	1H	248	G
26	1H	252	G
26	1H	269	U
26	1H	270(G)	C
26	1H	270(K)	C
26	1H	270(L)	U
26	1H	270(M)	U
26	1H	270(N)	G
26	1H	270(O)	U
26	1H	271(C)	U
26	1H	271	G
26	1H	273(E)	U
26	1H	274	G
26	1H	275	G
26	1H	277	C
26	1H	278	A
26	1H	291	C
26	1H	295	G
26	1H	299	A
26	1H	311	A
26	1H	321	G
26	1H	323	G
26	1H	324	A
26	1H	329	G
26	1H	330	A
26	1H	331	A
26	1H	335	C
26	1H	345	A
26	1H	352	G
26	1H	354	G
26	1H	364	C
26	1H	372	G
26	1H	375	C

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Mol	Chain	Res	Type
26	1H	380	U
26	1H	386	G
26	1H	396	G
26	1H	405	U
26	1H	406	G
26	1H	407	G
26	1H	411	G
26	1H	412	A
26	1H	413	C
26	1H	428	A
26	1H	444	C
26	1H	448	U
26	1H	449	A
26	1H	455	C
26	1H	466	A
26	1H	470	A
26	1H	471	A
26	1H	478	A
26	1H	481	G
26	1H	482	A
26	1H	501	A
26	1H	505	A
26	1H	508	G
26	1H	509	C
26	1H	510	C
26	1H	529	A
26	1H	530	G
26	1H	531	C
26	1H	532	A
26	1H	533	G
26	1H	545	G
26	1H	546	C
26	1H	548	A
26	1H	549	G
26	1H	563	G
26	1H	564	C
26	1H	570	G
26	1H	571	A
26	1H	573	G
26	1H	575	A
26	1H	577	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	614	U
26	1H	615	G
26	1H	617	G
26	1H	621	A
26	1H	622	G
26	1H	627	A
26	1H	631	A
26	1H	637	A
26	1H	645	C
26	1H	646	A
26	1H	653	A
26	1H	654	A
26	1H	654(A)	A
26	1H	654(O)	G
26	1H	654(P)	G
26	1H	654(R)	C
26	1H	654(S)	G
26	1H	654(T)	A
26	1H	654(V)	A
26	1H	656	G
26	1H	664	C
26	1H	669	G
26	1H	676	A
26	1H	686	G
26	1H	699	A
26	1H	702	G
26	1H	715	G
26	1H	717	G
26	1H	726	G
26	1H	730	C
26	1H	738	G
26	1H	747	U
26	1H	752	A
26	1H	753	C
26	1H	762	U
26	1H	764	A
26	1H	765	G

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Mol	Chain	Res	Type
26	1H	776	G
26	1H	777	A
26	1H	782	A
26	1H	784	A
26	1H	785	G
26	1H	790	C
26	1H	791	C
26	1H	792	G
26	1H	801	G
26	1H	805	G
26	1H	810	U
26	1H	812	C
26	1H	813	U
26	1H	824	A
26	1H	827	U
26	1H	828	U
26	1H	836	G
26	1H	845	G
26	1H	847	U
26	1H	859	G
26	1H	860	U
26	1H	866	A
26	1H	878	A
26	1H	880	G
26	1H	881	G
26	1H	882	G
26	1H	884	C
26	1H	885	C
26	1H	886	C
26	1H	887	A
26	1H	888	C
26	1H	893	C
26	1H	895	U
26	1H	896	A
26	1H	897	C
26	1H	898	C
26	1H	899	A
26	1H	900	A
26	1H	901	A
26	1H	902	C
26	1H	904	C
26	1H	906	G

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Mol	Chain	Res	Type
26	1H	907	U
26	1H	910	A
26	1H	917	A
26	1H	918	A
26	1H	919	G
26	1H	925	C
26	1H	932	G
26	1H	940	G
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	962	G
26	1H	974	G
26	1H	974(A)	C
26	1H	975	G
26	1H	983	A
26	1H	995	C
26	1H	996	A
26	1H	1005	C
26	1H	1009	A
26	1H	1011	G
26	1H	1012	U
26	1H	1013	C
26	1H	1016	G
26	1H	1020	A
26	1H	1021	A
26	1H	1022	G
26	1H	1023	U
26	1H	1025	G
26	1H	1026	U
26	1H	1027	A
26	1H	1028	A
26	1H	1033	U
26	1H	1040	C
26	1H	1044	G
26	1H	1045	A
26	1H	1047	G
26	1H	1049	C

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Mol	Chain	Res	Type
26	1H	1050	A
26	1H	1053	C
26	1H	1057	A
26	1H	1058	U
26	1H	1059	G
26	1H	1060	U
26	1H	1061	U
26	1H	1062	G
26	1H	1066	U
26	1H	1067	A
26	1H	1068	G
26	1H	1070	A
26	1H	1071	G
26	1H	1074	G
26	1H	1076	C
26	1H	1077	A
26	1H	1078	U
26	1H	1079	C
26	1H	1082	U
26	1H	1083	U
26	1H	1084	A
26	1H	1085	A
26	1H	1086	A
26	1H	1087	G
26	1H	1088	A
26	1H	1090	U
26	1H	1093	G
26	1H	1095	A
26	1H	1096	A
26	1H	1097	U
26	1H	1104	C
26	1H	1109	C
26	1H	1110	G
26	1H	1112	G
26	1H	1121	C
26	1H	1126	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

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Mol	Chain	Res	Type
26	1H	1139	G
26	1H	1142	U
26	1H	1142(A)	A
26	1H	1143	A
26	1H	1149	G
26	1H	1155	A
26	1H	1171	G
26	1H	1174	A
26	1H	1175	U
26	1H	1176	G
26	1H	1177	A
26	1H	1178	C
26	1H	1179	C
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	1225	C
26	1H	1229(A)	G
26	1H	1237	A
26	1H	1244	G
26	1H	1250	G
26	1H	1253	A
26	1H	1256	G
26	1H	1265	A
26	1H	1267	U
26	1H	1271	G
26	1H	1272	A
26	1H	1273	U
26	1H	1274	A
26	1H	1275	A
26	1H	1278	A
26	1H	1287	A
26	1H	1300	U
26	1H	1301	A
26	1H	1302	A
26	1H	1303	G
26	1H	1319	G
26	1H	1329	U

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Mol	Chain	Res	Type
26	1H	1332	G
26	1H	1344	G
26	1H	1345	C
26	1H	1348	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	1368	G
26	1H	1370	C
26	1H	1380	G
26	1H	1384	A
26	1H	1385	G
26	1H	1386	C
26	1H	1395	A
26	1H	1403	C
26	1H	1416	G
26	1H	1417	C
26	1H	1420	U
26	1H	1421	G
26	1H	1428	C
26	1H	1437	C
26	1H	1444(A)	A
26	1H	1449	A
26	1H	1449(A)	G
26	1H	1453	A
26	1H	1455	G
26	1H	1458	C
26	1H	1459	G
26	1H	1460	A
26	1H	1461	G
26	1H	1467	C
26	1H	1471	A
26	1H	1478	G
26	1H	1483	G
26	1H	1493	C
26	1H	1494	A
26	1H	1496	A
26	1H	1497	U
26	1H	1507	A

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Mol	Chain	Res	Type
26	1H	1509	C
26	1H	1510	A
26	1H	1511	A
26	1H	1522	G
26	1H	1524	G
26	1H	1526	G
26	1H	1534	G
26	1H	1535	U
26	1H	1536	A
26	1H	1537	C
26	1H	1538	G
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	1608	A
26	1H	1609	A
26	1H	1610	A
26	1H	1616	A
26	1H	1617	C
26	1H	1618	A
26	1H	1625	C
26	1H	1647	G
26	1H	1648	C
26	1H	1651	G
26	1H	1654	A
26	1H	1658	C
26	1H	1669	A
26	1H	1672	C
26	1H	1674	G
26	1H	1681	G
26	1H	1694	C

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Mol	Chain	Res	Type
26	1H	1695	G
26	1H	1699	G
26	1H	1728	G
26	1H	1729	A
26	1H	1730	U
26	1H	1731	G
26	1H	1733	G
26	1H	1734	C
26	1H	1746	G
26	1H	1756	G
26	1H	1758	G
26	1H	1762	A
26	1H	1763	G
26	1H	1764	G
26	1H	1765	C
26	1H	1773	A
26	1H	1775	U
26	1H	1776	G
26	1H	1779	U
26	1H	1782	C
26	1H	1786	A
26	1H	1791	A
26	1H	1799	G
26	1H	1800	C
26	1H	1801	G
26	1H	1802	A
26	1H	1808	U
26	1H	1811	G
26	1H	1816	G
26	1H	1829	A
26	1H	1835	G
26	1H	1839	G
26	1H	1847	A
26	1H	1858	G
26	1H	1859	A
26	1H	1869	G
26	1H	1870	C
26	1H	1889	A
26	1H	1900	A
26	1H	1906	G
26	1H	1913	A
26	1H	1914	C

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Mol	Chain	Res	Type
26	1H	1919	A
26	1H	1923	U
26	1H	1926	U
26	1H	1929	G
26	1H	1930	G
26	1H	1931	U
26	1H	1937	A
26	1H	1938	A
26	1H	1941	C
26	1H	1945	G
26	1H	1955	U
26	1H	1960	A
26	1H	1961	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	1982	C
26	1H	1993	U
26	1H	2004	G
26	1H	2006	C
26	1H	2023	G
26	1H	2031	A
26	1H	2033	A
26	1H	2035	G
26	1H	2043	C
26	1H	2049	G
26	1H	2052	G
26	1H	2054	A
26	1H	2055	C
26	1H	2056	G
26	1H	2060	A
26	1H	2061	G
26	1H	2062	A
26	1H	2066	C
26	1H	2069	G
26	1H	2096	U
26	1H	2098	U
26	1H	2099	U
26	1H	2108	C

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Mol	Chain	Res	Type
26	1H	2111	C
26	1H	2112	G
26	1H	2113	U
26	1H	2114	A
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	2131	G
26	1H	2132	U
26	1H	2133	G
26	1H	2134	A
26	1H	2135	A
26	1H	2136	C
26	1H	2139	C
26	1H	2144	U
26	1H	2145	C
26	1H	2147	G
26	1H	2148	G
26	1H	2151	G
26	1H	2156	G
26	1H	2157	G
26	1H	2158	A
26	1H	2161	C
26	1H	2162	G
26	1H	2165	G
26	1H	2166	G
26	1H	2168	G
26	1H	2169	A
26	1H	2170	A
26	1H	2171	A
26	1H	2172	U
26	1H	2173	A
26	1H	2174	C
26	1H	2176	A
26	1H	2181	G
26	1H	2183	C
26	1H	2185	C

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Mol	Chain	Res	Type
26	1H	2186	G
26	1H	2189	U
26	1H	2190	G
26	1H	2192	G
26	1H	2198	A
26	1H	2205	C
26	1H	2209	C
26	1H	2210	G
26	1H	2211	G
26	1H	2212	A
26	1H	2213	U
26	1H	2215	G
26	1H	2225	A
26	1H	2238	G
26	1H	2239	G
26	1H	2240	C
26	1H	2253	G
26	1H	2261	C
26	1H	2267	A
26	1H	2268	A
26	1H	2273	A
26	1H	2275	C
26	1H	2279	G
26	1H	2283	C
26	1H	2286	A
26	1H	2287	A
26	1H	2288	A
26	1H	2298	A
26	1H	2307	G
26	1H	2308	G
26	1H	2309	A
26	1H	2310	A
26	1H	2312	U
26	1H	2314	C
26	1H	2315	G
26	1H	2320	A
26	1H	2321	G
26	1H	2325	G
26	1H	2326	C
26	1H	2327	A
26	1H	2334	G
26	1H	2336	A

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Mol	Chain	Res	Type
26	1H	2343	C
26	1H	2347	C
26	1H	2350	C
26	1H	2376	A
26	1H	2377	A
26	1H	2379	G
26	1H	2383	G
26	1H	2385	C
26	1H	2388	A
26	1H	2395	C
26	1H	2402	C
26	1H	2403	C
26	1H	2406	U
26	1H	2410	G
26	1H	2414	G
26	1H	2422	A
26	1H	2424	C
26	1H	2425	A
26	1H	2429	G
26	1H	2430	A
26	1H	2435	A
26	1H	2439	A
26	1H	2440	C
26	1H	2441	C
26	1H	2445	G
26	1H	2448	A
26	1H	2449	U
26	1H	2453	A
26	1H	2459	A
26	1H	2468	G
26	1H	2469	A
26	1H	2470	G
26	1H	2476	A
26	1H	2482	G
26	1H	2502	G
26	1H	2505	G
26	1H	2518	A
26	1H	2520	C
26	1H	2529	G
26	1H	2554	U
26	1H	2566	A
26	1H	2567	G

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Mol	Chain	Res	Type
26	1H	2573	C
26	1H	2582	G
26	1H	2585	U
26	1H	2599	G
26	1H	2601	C
26	1H	2602	A
26	1H	2609	U
26	1H	2611	U
26	1H	2612	C
26	1H	2613	U
26	1H	2615	U
26	1H	2629	A
26	1H	2632	A
26	1H	2634	G
26	1H	2636	U
26	1H	2641	G
26	1H	2654	A
26	1H	2656	U
26	1H	2663	G
26	1H	2665	A
26	1H	2673	G
26	1H	2676	C
26	1H	2679	A
26	1H	2686	G
26	1H	2689	U
26	1H	2697	G
26	1H	2702	U
26	1H	2703	C
26	1H	2705	A
26	1H	2707	G
26	1H	2712(A)	A
26	1H	2713	A
26	1H	2714	G
26	1H	2718	G
26	1H	2726	U
26	1H	2733	A
26	1H	2744	G
26	1H	2750	A
26	1H	2756	U
26	1H	2757	A
26	1H	2758	A
26	1H	2764	A

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Mol	Chain	Res	Type
26	1H	2765	A
26	1H	2766	G
26	1H	2777	G
26	1H	2778	A
26	1H	2779	U
26	1H	2781	A
26	1H	2782	G
26	1H	2789	C
26	1H	2790	A
26	1H	2791	C
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	2804	C
26	1H	2807	G
26	1H	2808	U
26	1H	2816	C
26	1H	2820	A
26	1H	2821	A
26	1H	2830	G
26	1H	2833	G
26	1H	2834	G
26	1H	2835	A
26	1H	2850	A
26	1H	2865	U
26	1H	2866	U
26	1H	2872	G
26	1H	2891	G
26	1H	2892	A
26	1H	2894	G
26	1H	2898	U
27	16	0	A
27	16	3	C
27	16	8	U
27	16	12	C
27	16	13	A
27	16	14	U

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Mol	Chain	Res	Type
27	16	15	A
27	16	25	A
27	16	33	G
27	16	38	C
27	16	40	U
27	16	42	C
27	16	45	A
27	16	47	C
27	16	51	G
27	16	56	G
27	16	60	C
27	16	65	C
27	16	66	A
27	16	72	G
27	16	73	A
27	16	74	U
27	16	81	G
27	16	82	G
27	16	85	G
27	16	89	G
27	16	105	G
27	16	109	G
1	1G	2	U
1	1G	3	G
1	1G	4	U
1	1G	5	U
1	1G	6	G
1	1G	9	G
1	1G	10	A
1	1G	22	G
1	1G	32	A
1	1G	39	G
1	1G	47	C
1	1G	48	C
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

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Mol	Chain	Res	Type
1	1G	90	C
1	1G	91	C
1	1G	92	G
1	1G	101	A
1	1G	105	G
1	1G	115	G
1	1G	116	A
1	1G	121	C
1	1G	127	G
1	1G	129	U
1	1G	131	C
1	1G	135	C
1	1G	144	G
1	1G	155	C
1	1G	162	A
1	1G	163	C
1	1G	173	U
1	1G	174	C
1	1G	182	U
1	1G	186	C
1	1G	186(F)	C
1	1G	190	G
1	1G	191(A)	G
1	1G	191(D)	U
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	247	G
1	1G	250	A
1	1G	251	G
1	1G	266	G
1	1G	267	C
1	1G	281	G
1	1G	289	G
1	1G	290	C
1	1G	298	A
1	1G	321	A

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Mol	Chain	Res	Type
1	1G	328	C
1	1G	329	A
1	1G	332	G
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	366	C
1	1G	367	U
1	1G	372	C
1	1G	373	A
1	1G	397	A
1	1G	398	C
1	1G	406	G
1	1G	409	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	424	G
1	1G	429	U
1	1G	430	A
1	1G	439	A
1	1G	452	A
1	1G	453	A
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	496	A
1	1G	497	U

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Mol	Chain	Res	Type
1	1G	504	C
1	1G	505	G
1	1G	510	A
1	1G	511	C
1	1G	517	G
1	1G	518	C
1	1G	527	G
1	1G	529	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	559	A
1	1G	561	U
1	1G	562	C
1	1G	564	C
1	1G	572	A
1	1G	573	A
1	1G	576	G
1	1G	577	G
1	1G	581	G
1	1G	601	C
1	1G	607	A
1	1G	614	A
1	1G	615	C
1	1G	618	C
1	1G	619	U
1	1G	629	G
1	1G	631	G
1	1G	632	A
1	1G	651	C
1	1G	653	A
1	1G	663	A
1	1G	665	A
1	1G	687	A
1	1G	688	G
1	1G	700	G
1	1G	702	A
1	1G	721	G
1	1G	723	U

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Mol	Chain	Res	Type
1	1G	724	G
1	1G	725	G
1	1G	729	A
1	1G	731	G
1	1G	749	C
1	1G	750	G
1	1G	753	A
1	1G	755	G
1	1G	760	G
1	1G	766	A
1	1G	769	G
1	1G	776	G
1	1G	777	A
1	1G	787	A
1	1G	792	A
1	1G	793	U
1	1G	794	A
1	1G	816	A
1	1G	817	C
1	1G	820	U
1	1G	821	G
1	1G	827	U
1	1G	828	A
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
1	1G	867	G
1	1G	873	A
1	1G	874	G
1	1G	885	G
1	1G	889	A
1	1G	914	A
1	1G	916	G
1	1G	926	G
1	1G	927	G
1	1G	934	C
1	1G	935	A

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Mol	Chain	Res	Type
1	1G	936	C
1	1G	941	G
1	1G	942	G
1	1G	944	G
1	1G	953	G
1	1G	954	G
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	974	A
1	1G	975	A
1	1G	976	G
1	1G	977	A
1	1G	978	A
1	1G	980	C
1	1G	981	U
1	1G	982	U
1	1G	983	A
1	1G	991	U
1	1G	992	U
1	1G	993	G
1	1G	995	C
1	1G	996	A
1	1G	1001	G
1	1G	1002	G
1	1G	1003	G
1	1G	1004	A
1	1G	1005	A
1	1G	1006	C
1	1G	1008	C
1	1G	1021	G
1	1G	1022	G
1	1G	1023	G
1	1G	1024	G
1	1G	1025	U
1	1G	1028	C
1	1G	1028(B)	C

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Mol	Chain	Res	Type
1	1G	1029	G
1	1G	1030	C
1	1G	1031	G
1	1G	1032(A)	G
1	1G	1032(B)	G
1	1G	1033	G
1	1G	1035	A
1	1G	1036	G
1	1G	1037	C
1	1G	1039	C
1	1G	1040	U
1	1G	1042	G
1	1G	1046	A
1	1G	1050	G
1	1G	1051	C
1	1G	1053	G
1	1G	1054	C
1	1G	1055	A
1	1G	1056	U
1	1G	1064	G
1	1G	1071	C
1	1G	1085	U
1	1G	1086	U
1	1G	1088	G
1	1G	1092	A
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	1106	G
1	1G	1107	C
1	1G	1113	C
1	1G	1117	G
1	1G	1124	G
1	1G	1125	U
1	1G	1126	U
1	1G	1127	G
1	1G	1128	C
1	1G	1129	C
1	1G	1135	U

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Mol	Chain	Res	Type
1	1G	1137	C
1	1G	1139	G
1	1G	1140	C
1	1G	1143	G
1	1G	1144	G
1	1G	1145	C
1	1G	1146	A
1	1G	1147	C
1	1G	1157	A
1	1G	1158	C
1	1G	1159	U
1	1G	1160	G
1	1G	1171	G
1	1G	1181	G
1	1G	1183	A
1	1G	1188	A
1	1G	1189	C
1	1G	1196	U
1	1G	1197	G
1	1G	1198	G
1	1G	1200	C
1	1G	1201	A
1	1G	1202	G
1	1G	1210	C
1	1G	1211	U
1	1G	1212	U
1	1G	1213	A
1	1G	1214	C
1	1G	1219	U
1	1G	1223	C
1	1G	1225	A
1	1G	1232	U
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	1267	C
1	1G	1268	A
1	1G	1274	G

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Mol	Chain	Res	Type
1	1G	1276	G
1	1G	1279	A
1	1G	1280	A
1	1G	1286	A
1	1G	1287	A
1	1G	1288	A
1	1G	1295	G
1	1G	1297	C
1	1G	1299	A
1	1G	1300	G
1	1G	1301	U
1	1G	1305	G
1	1G	1306	A
1	1G	1317	C
1	1G	1318	A
1	1G	1319	A
1	1G	1320	C
1	1G	1322	C
1	1G	1323	G
1	1G	1324	A
1	1G	1331	G
1	1G	1335	C
1	1G	1336	C
1	1G	1338	G
1	1G	1344	C
1	1G	1346	A
1	1G	1347	G
1	1G	1354	C
1	1G	1362(A)	C
1	1G	1363	A
1	1G	1364	U
1	1G	1369	C
1	1G	1370	G
1	1G	1379	G
1	1G	1397	C
1	1G	1398	A
1	1G	1401	G
1	1G	1419	G
1	1G	1442	G
1	1G	1443	G
1	1G	1446	A
1	1G	1449	C

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Mol	Chain	Res	Type
1	1G	1450	U
1	1G	1451	A
1	1G	1452	C
1	1G	1453	G
1	1G	1454	G
1	1G	1469	G
1	1G	1482	G
1	1G	1492	A
1	1G	1494	G
1	1G	1497	G
1	1G	1498	U
1	1G	1499	A
1	1G	1502	A
1	1G	1503	A
1	1G	1504	G
1	1G	1506	U
1	1G	1507	A
1	1G	1517	G
1	1G	1519	A
1	1G	1520	G
1	1G	1529	G
1	1G	1530	G
1	1G	1533	C
1	1G	1534	A
1	1G	1535	C
22	1L	2	C
22	1L	3	A
22	1L	6	C
22	1L	7	G
22	1L	8	4SU
22	1L	9	A
22	1L	15	G
22	1L	16	C
22	1L	17	U
22	1L	18	G
22	1L	19	G
22	1L	23	G
22	1L	24	A
22	1L	32	G
22	1L	33	RSP
22	1L	34	U
22	1L	42	G

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Mol	Chain	Res	Type
22	1L	47	7MG
22	1L	50	G
22	1L	60	A
22	1L	61	U
22	1L	64	U
22	1L	69	G
22	1L	70	A
22	1L	73	C
22	1L	74	A
22	1L	75	C
22	1L	76	C
22	1L	77	A
23	2L	4	G
23	2L	6	G
23	2L	8	4SU
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	32	G
23	2L	45	A
23	2L	47	7MG
23	2L	48	U
23	2L	49	C
23	2L	57	C
23	2L	61	U
23	2L	68	C
23	2L	77	A
24	3L	2	C
24	3L	8	U
24	3L	9	A
24	3L	10	G
24	3L	11	C
24	3L	13	C
24	3L	15	G
24	3L	16	C
24	3L	17	U
24	3L	18	G
24	3L	19	G
24	3L	24	A

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Mol	Chain	Res	Type
24	3L	26	U
24	3L	27	A
24	3L	32	G
24	3L	33	C
24	3L	34	U
24	3L	35	A
24	3L	36	C
24	3L	37	G
24	3L	39	A
24	3L	44	G
24	3L	45	C
24	3L	46	G
24	3L	47	G
24	3L	48	U
24	3L	49	C
24	3L	51	G
24	3L	53	G
24	3L	56	U
24	3L	57	C
24	3L	59	A
24	3L	60	A
24	3L	70	A
24	3L	73	C
24	3L	74	A
24	3L	77	A
25	4L	9	G
25	4L	10	G
25	4L	11	U
25	4L	14	A
25	4L	15	A
25	4L	19	C
25	4L	20	G
25	4L	22	A
25	4L	23	A
26	14	2	G
26	14	3	U
26	14	4	C
26	14	5	A
26	14	6	A
26	14	11	G
26	14	13	A
26	14	14	A

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Mol	Chain	Res	Type
26	14	15	G
26	14	35	G
26	14	46	C
26	14	48	G
26	14	49	A
26	14	50	U
26	14	51	G
26	14	55	G
26	14	58	G
26	14	60	G
26	14	71	A
26	14	72	U
26	14	74	A
26	14	75	G
26	14	84	A
26	14	90	U
26	14	93	C
26	14	95	G
26	14	101	G
26	14	102	G
26	14	103	A
26	14	118	A
26	14	119	A
26	14	120	U
26	14	129	C
26	14	138	G
26	14	139	G
26	14	140	A
26	14	152	G
26	14	154	G
26	14	155	C
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	196	A
26	14	199	A
26	14	205	G
26	14	213	A

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Mol	Chain	Res	Type
26	14	214	G
26	14	215	G
26	14	216	A
26	14	221	A
26	14	222	A
26	14	225	A
26	14	229	A
26	14	233	A
26	14	248	G
26	14	249	C
26	14	252	G
26	14	267	C
26	14	270(K)	C
26	14	270(M)	U
26	14	270(N)	G
26	14	270(O)	U
26	14	270(P)	C
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	277	C
26	14	278	A
26	14	279	C
26	14	283	A
26	14	289	A
26	14	290	G
26	14	294	A
26	14	310	A
26	14	311	A
26	14	324	A
26	14	329	G
26	14	330	A
26	14	331	A
26	14	334	C
26	14	346	A
26	14	352	G
26	14	356	G

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Mol	Chain	Res	Type
26	14	357	A
26	14	363	G
26	14	363(A)	A
26	14	363(E)	U
26	14	363(F)	A
26	14	372	G
26	14	386	G
26	14	396	G
26	14	399	G
26	14	405	U
26	14	406	G
26	14	407	G
26	14	409	C
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	452	G
26	14	455	C
26	14	457	A
26	14	462	C
26	14	463	G
26	14	464	U
26	14	470	A
26	14	471	A
26	14	478	A
26	14	480	A
26	14	481	G
26	14	505	A
26	14	507	A
26	14	509	C
26	14	512	G
26	14	528	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	548	A

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Mol	Chain	Res	Type
26	14	549	G
26	14	556	G
26	14	563	G
26	14	568	U
26	14	573	G
26	14	574	C
26	14	575	A
26	14	584	C
26	14	603	A
26	14	607	U
26	14	609(A)	G
26	14	614	U
26	14	615	G
26	14	617	G
26	14	620	G
26	14	621	A
26	14	622	G
26	14	627	A
26	14	634	C
26	14	637	A
26	14	645	C
26	14	646	A
26	14	651	G
26	14	654	A
26	14	654(A)	A
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	662	G
26	14	668	G
26	14	669	G
26	14	686	G
26	14	709	U
26	14	717	G
26	14	722	A
26	14	730	C
26	14	739	G
26	14	740	U
26	14	749	C
26	14	751	A

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Mol	Chain	Res	Type
26	14	752	A
26	14	753	C
26	14	765	G
26	14	771	G
26	14	775	G
26	14	776	G
26	14	782	A
26	14	784	A
26	14	785	G
26	14	790	C
26	14	792	G
26	14	800	A
26	14	805	G
26	14	812	C
26	14	819	A
26	14	827	U
26	14	828	U
26	14	831	G
26	14	832	G
26	14	844	C
26	14	846	C
26	14	855	G
26	14	856	C
26	14	859	G
26	14	866	A
26	14	877	U
26	14	878	A
26	14	880	G
26	14	881	G
26	14	882	G
26	14	883	G
26	14	885	C
26	14	886	C
26	14	887	A
26	14	888	C
26	14	889	C
26	14	892	G
26	14	894	C
26	14	896	A
26	14	897	C
26	14	898	C
26	14	899	A

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Mol	Chain	Res	Type
26	14	901	A
26	14	910	A
26	14	911	A
26	14	917	A
26	14	919	G
26	14	924	C
26	14	925	C
26	14	932	G
26	14	935	C
26	14	938	G
26	14	941	A
26	14	945	A
26	14	946	G
26	14	958	U
26	14	959	A
26	14	961	C
26	14	963	U
26	14	972	G
26	14	973	A
26	14	974	G
26	14	974(A)	C
26	14	980	A
26	14	983	A
26	14	986	C
26	14	990	A
26	14	996	A
26	14	999	U
26	14	1005	C
26	14	1012	U
26	14	1013	C
26	14	1015	G
26	14	1016	G
26	14	1017	G
26	14	1022	G
26	14	1023	U
26	14	1025	G
26	14	1026	U
26	14	1028	A
26	14	1033	U
26	14	1037	G
26	14	1038	C
26	14	1044	G

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Mol	Chain	Res	Type
26	14	1045	A
26	14	1046	A
26	14	1048	A
26	14	1051	G
26	14	1054	A
26	14	1056	G
26	14	1060	U
26	14	1061	U
26	14	1062	G
26	14	1063	G
26	14	1066	U
26	14	1067	A
26	14	1070	A
26	14	1071	G
26	14	1072	C
26	14	1073	A
26	14	1075	C
26	14	1079	C
26	14	1080	A
26	14	1086	A
26	14	1087	G
26	14	1088	A
26	14	1090	U
26	14	1093	G
26	14	1095	A
26	14	1096	A
26	14	1099	G
26	14	1105	U
26	14	1111	A
26	14	1112	G
26	14	1113	U
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	1138	G
26	14	1139	G
26	14	1142(A)	A
26	14	1143	A

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Mol	Chain	Res	Type
26	14	1151	G
26	14	1159	U
26	14	1170	G
26	14	1171	G
26	14	1173	G
26	14	1174	A
26	14	1175	U
26	14	1177	A
26	14	1178	C
26	14	1189	A
26	14	1204	A
26	14	1205	U
26	14	1206	G
26	14	1212	G
26	14	1220	A
26	14	1232	G
26	14	1236	G
26	14	1248	G
26	14	1252	G
26	14	1253	A
26	14	1256	G
26	14	1271	G
26	14	1272	A
26	14	1278	A
26	14	1284	A
26	14	1298	C
26	14	1300	U
26	14	1301	A
26	14	1303	G
26	14	1313	U
26	14	1320	C
26	14	1321	A
26	14	1328	G
26	14	1329	U
26	14	1345	C
26	14	1348	G
26	14	1349	A
26	14	1352	U
26	14	1359	A
26	14	1360	A
26	14	1365	A
26	14	1368	G

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Mol	Chain	Res	Type
26	14	1370	C
26	14	1380	G
26	14	1383	C
26	14	1384	A
26	14	1385	G
26	14	1386	C
26	14	1403	C
26	14	1405	U
26	14	1406	U
26	14	1407	C
26	14	1416	G
26	14	1417	C
26	14	1419	A
26	14	1421	G
26	14	1427	A
26	14	1428	C
26	14	1444(A)	A
26	14	1445	C
26	14	1449	A
26	14	1449(A)	G
26	14	1454	U
26	14	1455	G
26	14	1458	C
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	1478	G
26	14	1482	U
26	14	1483	G
26	14	1490	A
26	14	1492	G
26	14	1493	C
26	14	1494	A
26	14	1508	A
26	14	1509	C
26	14	1510	A
26	14	1522	G
26	14	1534	G
26	14	1535	U

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Mol	Chain	Res	Type
26	14	1537	C
26	14	1540	G
26	14	1543	A
26	14	1544	C
26	14	1558	A
26	14	1559	G
26	14	1560	G
26	14	1566	A
26	14	1569	A
26	14	1578	U
26	14	1583	A
26	14	1585	C
26	14	1586	A
26	14	1588	C
26	14	1589	C
26	14	1593	G
26	14	1599	C
26	14	1608	A
26	14	1609	A
26	14	1610	A
26	14	1616	A
26	14	1644	C
26	14	1647	G
26	14	1648	C
26	14	1654	A
26	14	1674	G
26	14	1675	C
26	14	1678	G
26	14	1680	U
26	14	1696	G
26	14	1700	A
26	14	1701	A
26	14	1718	G
26	14	1725	G
26	14	1728	G
26	14	1729	A
26	14	1741	C
26	14	1743	G
26	14	1756	G
26	14	1762	A
26	14	1763	G
26	14	1764	G

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Mol	Chain	Res	Type
26	14	1773	A
26	14	1780	A
26	14	1781	C
26	14	1782	C
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	1835	G
26	14	1836	C
26	14	1847	A
26	14	1859	A
26	14	1878	G
26	14	1886	C
26	14	1888	G
26	14	1889	A
26	14	1894	C
26	14	1896	G
26	14	1906	G
26	14	1913	A
26	14	1919	A
26	14	1929	G
26	14	1930	G
26	14	1931	U
26	14	1936	A
26	14	1938	A
26	14	1940	U
26	14	1944	U
26	14	1955	U
26	14	1960	A
26	14	1963	U
26	14	1967	C
26	14	1970	A
26	14	1971	A
26	14	1972	A
26	14	1993	U
26	14	2023	G
26	14	2027	G

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Mol	Chain	Res	Type
26	14	2031	A
26	14	2033	A
26	14	2039	C
26	14	2043	C
26	14	2049	G
26	14	2054	A
26	14	2055	C
26	14	2056	G
26	14	2060	A
26	14	2061	G
26	14	2062	A
26	14	2063	C
26	14	2069	G
26	14	2074	U
26	14	2076	U
26	14	2080	G
26	14	2082	A
26	14	2085	C
26	14	2097	C
26	14	2100	G
26	14	2102	U
26	14	2108	C
26	14	2110	G
26	14	2111	C
26	14	2114	A
26	14	2115	G
26	14	2116	G
26	14	2117	A
26	14	2118	U
26	14	2120	G
26	14	2122	U
26	14	2124	G
26	14	2125	G
26	14	2126	A
26	14	2127	G
26	14	2128	C
26	14	2129	C
26	14	2131	G
26	14	2132	U
26	14	2133	G
26	14	2134	A
26	14	2135	A

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Mol	Chain	Res	Type
26	14	2136	C
26	14	2137	C
26	14	2144	U
26	14	2145	C
26	14	2146	C
26	14	2147	G
26	14	2148	G
26	14	2150	U
26	14	2151	G
26	14	2153	G
26	14	2157	G
26	14	2158	A
26	14	2161	C
26	14	2162	G
26	14	2164	C
26	14	2166	G
26	14	2168	G
26	14	2169	A
26	14	2170	A
26	14	2172	U
26	14	2173	A
26	14	2174	C
26	14	2176	A
26	14	2189	U
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	2234	G
26	14	2235	G
26	14	2238	G
26	14	2239	G
26	14	2240	C
26	14	2245	U
26	14	2246	G

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Mol	Chain	Res	Type
26	14	2261	C
26	14	2267	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	2283	C
26	14	2287	A
26	14	2288	A
26	14	2289	G
26	14	2293	C
26	14	2298	A
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	2324	C
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	2342	C
26	14	2346	A
26	14	2347	C
26	14	2350	C
26	14	2354	G
26	14	2355	C
26	14	2357	U
26	14	2383	G
26	14	2385	C
26	14	2388	A
26	14	2389	G
26	14	2392	A

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Mol	Chain	Res	Type
26	14	2396	G
26	14	2401	U
26	14	2402	C
26	14	2406	U
26	14	2411	A
26	14	2413	G
26	14	2414	G
26	14	2418	A
26	14	2422	A
26	14	2426	A
26	14	2429	G
26	14	2430	A
26	14	2431	U
26	14	2435	A
26	14	2439	A
26	14	2440	C
26	14	2441	C
26	14	2448	A
26	14	2468	G
26	14	2469	A
26	14	2470	G
26	14	2475	C
26	14	2476	A
26	14	2477	C
26	14	2483	C
26	14	2492	U
26	14	2498	C
26	14	2501	C
26	14	2502	G
26	14	2505	G
26	14	2512	C
26	14	2513	G
26	14	2518	A
26	14	2525	G
26	14	2532	G
26	14	2542	A
26	14	2543	G
26	14	2544	G
26	14	2554	U
26	14	2555	U
26	14	2563	U
26	14	2564	A

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Mol	Chain	Res	Type
26	14	2566	A
26	14	2567	G
26	14	2573	C
26	14	2578	G
26	14	2582	G
26	14	2601	C
26	14	2602	A
26	14	2609	U
26	14	2610	C
26	14	2611	U
26	14	2612	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	2673	G
26	14	2689	U
26	14	2690	C
26	14	2702	U
26	14	2703	C
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	2742	C
26	14	2744	G
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

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Mol	Chain	Res	Type
26	14	2777	G
26	14	2778	A
26	14	2779	U
26	14	2780	G
26	14	2790	A
26	14	2791	C
26	14	2793	G
26	14	2794	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	2825	C
26	14	2833	G
26	14	2834	G
26	14	2835	A
26	14	2859	G
26	14	2860	A
26	14	2861	G
26	14	2872	G
26	14	2874	C
26	14	2876	G
26	14	2879	C
26	14	2883	A
26	14	2885	C
26	14	2886	G
26	14	2889	C
26	14	2892	A
26	14	2893	G
26	14	2894	G
26	14	2895	U
26	14	2896	C
26	14	2897	U
26	14	2898	U

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Mol	Chain	Res	Type
26	14	2902	C
27	1J	0	A
27	1J	2	C
27	1J	7	G
27	1J	8	U
27	1J	13	A
27	1J	15	A
27	1J	16	G
27	1J	22	U
27	1J	25	A
27	1J	28	C
27	1J	29	A
27	1J	33	G
27	1J	43	C
27	1J	44	G
27	1J	45	A
27	1J	47	C
27	1J	51	G
27	1J	56	G
27	1J	58	A
27	1J	67	G
27	1J	73	A
27	1J	74	U
27	1J	81	G
27	1J	86	G
27	1J	88	C
27	1J	89	G
27	1J	89(A)	A
27	1J	90	C
27	1J	108	C
27	1J	109	G
27	1J	116	G
27	1J	119	A

All (216) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	13	2	U
1	13	31	G
1	13	49	U
1	13	84	U
1	13	85	U

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Mol	Chain	Res	Type
1	13	89	U
1	13	115	G
1	13	173	U
1	13	181	G
1	13	244	U
1	13	266	G
1	13	422	C
1	13	428	G
1	13	429	U
1	13	484	G
1	13	509	A
1	13	535	A
1	13	560	U
1	13	628	G
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	1025	U
1	13	1064	G
1	13	1065	U
1	13	1183	A
1	13	1285	A
1	13	1336	C
1	13	1363	A
1	13	1452	C
1	13	1498	U
1	13	1533	C
22	1K	1	G
22	1K	23	G
22	1K	29	U
22	1K	73	C
22	1K	74	A
23	2K	48	U
23	2K	61	U
24	3K	7	G
24	3K	8	U
24	3K	34	U
24	3K	59	A

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Mol	Chain	Res	Type
25	4K	18	G
26	1H	125	G
26	1H	195	A
26	1H	196	A
26	1H	222	A
26	1H	232	G
26	1H	270(M)	U
26	1H	271(B)	G
26	1H	310	A
26	1H	345	A
26	1H	404	C
26	1H	508	G
26	1H	528	A
26	1H	587	C
26	1H	620	G
26	1H	645	C
26	1H	654(Q)	C
26	1H	668	G
26	1H	746	A
26	1H	752	A
26	1H	764	A
26	1H	776	G
26	1H	800	A
26	1H	827	U
26	1H	858	U
26	1H	881	G
26	1H	895	U
26	1H	960	A
26	1H	974	G
26	1H	974(A)	C
26	1H	1022	G
26	1H	1026	U
26	1H	1046	A
26	1H	1057	A
26	1H	1085	A
26	1H	1109	C
26	1H	1128	A
26	1H	1177	A
26	1H	1178	C
26	1H	1210	A
26	1H	1396	U
26	1H	1416	G

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Mol	Chain	Res	Type
26	1H	1420	U
26	1H	1493	C
26	1H	1508	A
26	1H	1558	A
26	1H	1608	A
26	1H	1609	A
26	1H	1653	G
26	1H	1694	C
26	1H	1757	U
26	1H	1799	G
26	1H	1858	G
26	1H	1899	G
26	1H	1984	G
26	1H	1992	G
26	1H	2060	A
26	1H	2157	G
26	1H	2171	A
26	1H	2172	U
26	1H	2210	G
26	1H	2422	A
26	1H	2439	A
26	1H	2448	A
26	1H	2481	G
26	1H	2566	A
26	1H	2702	U
26	1H	2756	U
27	16	44	G
27	16	108	C
1	1G	2	U
1	1G	64	G
1	1G	80	G
1	1G	87	A
1	1G	89	U
1	1G	115	G
1	1G	197	A
1	1G	209	U
1	1G	250	A
1	1G	266	G
1	1G	345	C
1	1G	412	A
1	1G	429	U
1	1G	485	G

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Mol	Chain	Res	Type
1	1G	509	A
1	1G	535	A
1	1G	560	U
1	1G	628	G
1	1G	687	A
1	1G	748	C
1	1G	793	U
1	1G	913	A
1	1G	974	A
1	1G	991	U
1	1G	992	U
1	1G	1053	G
1	1G	1126	U
1	1G	1127	G
1	1G	1145	C
1	1G	1157	A
1	1G	1285	A
1	1G	1300	G
1	1G	1305	G
1	1G	1442	G
1	1G	1453	G
1	1G	1498	U
1	1G	1533	C
22	1L	1	G
22	1L	17	U
22	1L	23	G
22	1L	46	G
22	1L	73	C
22	1L	74	A
23	2L	48	U
24	3L	7	G
24	3L	8	U
24	3L	34	U
26	14	34	C
26	14	49	A
26	14	71	A
26	14	101	G
26	14	128	C
26	14	270(M)	U
26	14	278	A
26	14	310	A
26	14	503	A

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Mol	Chain	Res	Type
26	14	528	A
26	14	627	A
26	14	752	A
26	14	764	A
26	14	774	A
26	14	776	G
26	14	784	A
26	14	827	U
26	14	858	U
26	14	877	U
26	14	888	C
26	14	893	C
26	14	960	A
26	14	971	C
26	14	974	G
26	14	998	C
26	14	1022	G
26	14	1085	A
26	14	1379	A
26	14	1396	U
26	14	1420	U
26	14	1444(A)	A
26	14	1558	A
26	14	1608	A
26	14	1609	A
26	14	1762	A
26	14	1819	A
26	14	1963	U
26	14	1992	G
26	14	2107	C
26	14	2173	A
26	14	2238	G
26	14	2275	C
26	14	2335	A
26	14	2406	U
26	14	2439	A
26	14	2629	A
26	14	2689	U
26	14	2756	U
26	14	2776	A
26	14	2859	G
26	14	2893	G

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Mol	Chain	Res	Type
27	1J	88	C

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

22 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	$\#\|Z\| > 2$
23	4SU	2L	8	23	18,21,22	1.81	3 (16%)	25,30,33	2.53	4 (16%)
22	4SU	1L	8	22	18,21,22	1.94	3 (16%)	25,30,33	2.28	6 (24%)
23	OMC	2K	33	23	19,22,23	1.71	3 (15%)	25,31,34	0.94	1 (4%)
23	7MG	2K	47	23	23,26,27	2.98	9 (39%)	27,39,42	2.72	9 (33%)
22	RSP	1K	33	22	17,21,22	4.14	7 (41%)	21,30,33	0.93	2 (9%)
23	7MG	2L	47	23	23,26,27	3.03	6 (26%)	27,39,42	2.88	9 (33%)
22	2MA	1L	38	22	22,25,26	3.71	8 (36%)	32,37,40	2.29	10 (31%)
23	5MU	2L	55	23	19,22,23	3.85	5 (26%)	27,32,35	3.35	9 (33%)
23	4SU	2K	8	23	18,21,22	2.00	5 (27%)	25,30,33	2.82	8 (32%)
23	PSU	2L	56	23	18,21,22	1.41	2 (11%)	21,30,33	1.56	2 (9%)
22	7MG	1K	47	22	23,26,27	3.07	8 (34%)	27,39,42	2.82	9 (33%)
23	PSU	2K	56	23	18,21,22	1.28	2 (11%)	21,30,33	2.21	5 (23%)
22	PSU	1K	56	22	18,21,22	1.32	1 (5%)	21,30,33	1.68	4 (19%)
22	RSP	1L	33	22	17,21,22	4.22	7 (41%)	21,30,33	0.97	1 (4%)
22	7MG	1L	47	22	23,26,27	3.09	8 (34%)	27,39,42	2.85	9 (33%)
23	OMC	2L	33	23	19,22,23	1.84	3 (15%)	25,31,34	1.07	2 (8%)
22	PSU	1L	56	22	18,21,22	1.18	1 (5%)	21,30,33	1.96	5 (23%)
22	5MU	1L	55	22	19,22,23	3.88	5 (26%)	27,32,35	3.15	9 (33%)
22	2MA	1K	38	22	22,25,26	3.21	8 (36%)	32,37,40	2.21	11 (34%)
22	5MU	1K	55	22	19,22,23	4.04	5 (26%)	27,32,35	3.12	8 (29%)
22	4SU	1K	8	22	18,21,22	1.86	5 (27%)	25,30,33	2.81	8 (32%)
23	5MU	2K	55	23	19,22,23	3.95	5 (26%)	27,32,35	3.69	8 (29%)

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
23	4SU	2L	8	23	-	0/7/25/26	0/2/2/2
22	4SU	1L	8	22	-	3/7/25/26	0/2/2/2
23	OMC	2K	33	23	-	1/9/27/28	0/2/2/2
23	7MG	2K	47	23	-	2/7/37/38	0/3/3/3
22	RSP	1K	33	22	-	3/7/25/26	0/2/2/2
23	7MG	2L	47	23	-	2/7/37/38	0/3/3/3
22	2MA	1L	38	22	-	0/7/25/26	0/3/3/3
23	5MU	2L	55	23	-	0/7/25/26	0/2/2/2
23	4SU	2K	8	23	-	0/7/25/26	0/2/2/2
23	PSU	2L	56	23	-	0/7/25/26	0/2/2/2
22	7MG	1K	47	22	-	2/7/37/38	0/3/3/3
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2
22	PSU	1K	56	22	-	0/7/25/26	0/2/2/2
22	RSP	1L	33	22	-	3/7/25/26	0/2/2/2
22	7MG	1L	47	22	-	2/7/37/38	0/3/3/3
23	OMC	2L	33	23	-	0/9/27/28	0/2/2/2
22	PSU	1L	56	22	-	0/7/25/26	0/2/2/2
22	5MU	1L	55	22	-	0/7/25/26	0/2/2/2
22	2MA	1K	38	22	-	0/7/25/26	0/3/3/3
22	5MU	1K	55	22	-	0/7/25/26	0/2/2/2
22	4SU	1K	8	22	-	2/7/25/26	0/2/2/2
23	5MU	2K	55	23	-	0/7/25/26	0/2/2/2

All (109) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1L	33	RSP	C2-N3	13.59	1.49	1.36
22	1K	55	5MU	C2-N1	13.12	1.59	1.38
23	2K	55	5MU	C2-N1	13.07	1.58	1.38
22	1K	33	RSP	C2-N3	12.60	1.48	1.36
22	1L	55	5MU	C2-N1	12.41	1.57	1.38
23	2L	55	5MU	C2-N1	12.18	1.57	1.38
22	1L	38	2MA	C4-N3	11.99	1.49	1.34
22	1K	38	2MA	C4-N3	9.84	1.47	1.34
22	1K	47	7MG	C5-N7	8.38	1.46	1.35
23	2K	47	7MG	C5-N7	8.02	1.45	1.35
22	1L	47	7MG	C5-N7	8.01	1.45	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	47	7MG	C5-N7	7.44	1.45	1.35
22	1L	47	7MG	C4-N9	-7.32	1.28	1.37
23	2L	47	7MG	C4-N9	-7.27	1.28	1.37
23	2K	47	7MG	C4-N9	-6.73	1.29	1.37
22	1K	47	7MG	C4-N3	6.47	1.49	1.34
22	1L	38	2MA	C2-N1	6.42	1.45	1.34
22	1K	33	RSP	C6-C5	6.36	1.49	1.35
22	1K	47	7MG	C4-N9	-6.35	1.30	1.37
22	1K	55	5MU	C2-N3	6.29	1.48	1.38
23	2L	47	7MG	C4-N3	6.18	1.48	1.34
22	1L	38	2MA	C6-N1	6.13	1.43	1.35
23	2K	8	4SU	C5-C4	6.10	1.49	1.42
22	1L	55	5MU	C4-N3	-6.10	1.27	1.38
23	2L	55	5MU	C4-N3	-6.09	1.27	1.38
23	2K	47	7MG	C4-N3	6.03	1.48	1.34
22	1L	33	RSP	C6-C5	6.03	1.49	1.35
22	1L	38	2MA	C2-N3	5.99	1.44	1.34
22	1L	47	7MG	C4-N3	5.95	1.47	1.34
23	2L	8	4SU	C5-C4	5.94	1.49	1.42
22	1K	38	2MA	C2-N1	5.91	1.44	1.34
22	1L	55	5MU	C2-N3	5.90	1.48	1.38
23	2L	55	5MU	C2-N3	5.85	1.48	1.38
23	2K	55	5MU	C4-N3	-5.70	1.28	1.38
22	1K	55	5MU	C6-N1	5.68	1.47	1.38
23	2L	55	5MU	C6-N1	5.67	1.47	1.38
22	1L	8	4SU	C5-C4	5.65	1.49	1.42
22	1L	33	RSP	C4-N3	5.59	1.45	1.34
22	1K	55	5MU	C4-C5	5.57	1.53	1.44
23	2K	55	5MU	C2-N3	5.53	1.47	1.38
23	2K	55	5MU	C4-C5	5.52	1.53	1.44
22	1K	33	RSP	C4-N4	5.51	1.47	1.33
22	1L	55	5MU	C6-N1	5.49	1.47	1.38
22	1K	55	5MU	C4-N3	-5.49	1.28	1.38
23	2K	55	5MU	C6-N1	5.31	1.47	1.38
22	1K	38	2MA	C2-N3	5.25	1.43	1.34
22	1K	33	RSP	C4-N3	5.17	1.44	1.34
22	1L	55	5MU	C4-C5	5.11	1.53	1.44
23	2L	33	OMC	C2-N3	4.97	1.46	1.36
23	2L	55	5MU	C4-C5	4.95	1.52	1.44
22	1K	56	PSU	C6-C5	4.76	1.40	1.35
22	1L	47	7MG	C8-N7	4.74	1.65	1.42
22	1L	33	RSP	C4-N4	4.73	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	56	PSU	C6-C5	4.72	1.40	1.35
23	2L	47	7MG	C5-C4	-4.70	1.23	1.37
22	1K	47	7MG	C8-N7	4.62	1.64	1.42
22	1K	8	4SU	C5-C4	4.60	1.48	1.42
23	2L	47	7MG	C8-N7	4.56	1.64	1.42
22	1K	38	2MA	C6-N1	4.54	1.41	1.35
23	2K	33	OMC	C2-N3	4.53	1.45	1.36
22	1L	47	7MG	C5-C4	-4.44	1.24	1.37
23	2L	33	OMC	C4-N4	4.41	1.44	1.33
23	2K	47	7MG	C8-N7	4.40	1.63	1.42
22	1L	8	4SU	C2-N1	4.38	1.45	1.38
22	1K	47	7MG	C5-C4	-4.35	1.24	1.37
23	2K	56	PSU	C6-C5	4.21	1.40	1.35
22	1L	56	PSU	C6-C5	4.17	1.39	1.35
23	2K	47	7MG	C5-C4	-4.13	1.25	1.37
23	2K	8	4SU	C2-N1	4.05	1.44	1.38
23	2K	33	OMC	C4-N4	4.04	1.43	1.33
22	1K	8	4SU	C2-N1	3.96	1.44	1.38
22	1L	38	2MA	C5-N7	-3.63	1.32	1.39
22	1L	38	2MA	C5-C6	3.45	1.50	1.41
23	2L	33	OMC	C5-C4	3.43	1.50	1.42
22	1L	33	RSP	C6-N1	3.40	1.46	1.38
22	1K	33	RSP	C6-N1	3.38	1.46	1.38
23	2K	33	OMC	C5-C4	3.36	1.50	1.42
22	1K	33	RSP	C2-S2	-3.31	1.59	1.67
23	2L	47	7MG	C2-N2	3.30	1.41	1.34
22	1K	38	2MA	C5-C6	3.17	1.49	1.41
22	1K	38	2MA	C5-N7	-3.14	1.33	1.39
23	2L	8	4SU	C2-N1	3.11	1.43	1.38
22	1K	47	7MG	C2-N2	3.10	1.41	1.34
22	1L	47	7MG	C2-N2	3.04	1.41	1.34
22	1L	8	4SU	C6-N1	3.03	1.45	1.38
22	1K	33	RSP	C5-C4	2.94	1.49	1.42
22	1L	33	RSP	C2-S2	-2.92	1.60	1.67
22	1K	38	2MA	C8-N7	2.87	1.37	1.31
22	1K	8	4SU	C4-N3	2.76	1.40	1.37
23	2K	47	7MG	C2-N2	2.74	1.40	1.34
23	2L	8	4SU	C6-N1	2.69	1.44	1.38
22	1K	8	4SU	C6-N1	2.69	1.44	1.38
22	1K	8	4SU	C2-N3	2.59	1.42	1.38
23	2K	8	4SU	C6-N1	2.51	1.44	1.38
23	2K	8	4SU	C2-N3	2.47	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	56	PSU	C2-N1	2.35	1.39	1.36
22	1L	47	7MG	C6-N1	-2.33	1.34	1.38
22	1L	38	2MA	C8-N7	2.31	1.36	1.31
22	1K	47	7MG	C6-N1	-2.30	1.34	1.38
22	1L	33	RSP	C5-C4	2.27	1.48	1.42
23	2K	47	7MG	C6-N1	-2.27	1.34	1.38
23	2K	8	4SU	C4-N3	2.16	1.39	1.37
23	2K	56	PSU	C4-C5	-2.12	1.38	1.44
22	1L	38	2MA	CM2-C2	2.12	1.55	1.49
22	1K	38	2MA	CM2-C2	2.11	1.55	1.49
23	2K	47	7MG	C8-N9	2.08	1.47	1.45
22	1L	47	7MG	C5-C6	2.07	1.48	1.43
23	2K	47	7MG	C5-C6	2.04	1.48	1.43
22	1K	47	7MG	C5-C6	2.00	1.48	1.43

All (139) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	2K	55	5MU	C5-C4-N3	12.53	126.21	115.32
23	2L	55	5MU	C5-C4-N3	10.70	124.63	115.32
22	1K	55	5MU	C5-C4-N3	9.57	123.64	115.32
22	1L	55	5MU	C5-C4-N3	9.49	123.57	115.32
23	2K	8	4SU	C4-N3-C2	-8.59	119.08	127.31
23	2L	47	7MG	C4-C5-N7	8.52	115.44	105.38
23	2L	8	4SU	C4-N3-C2	-8.42	119.24	127.31
22	1L	47	7MG	C4-C5-N7	8.32	115.20	105.38
23	2K	47	7MG	C4-C5-N7	8.24	115.11	105.38
22	1K	47	7MG	C4-C5-N7	8.22	115.09	105.38
22	1K	8	4SU	C5-C4-S4	-7.35	115.92	124.31
22	1K	8	4SU	C4-N3-C2	-7.33	120.28	127.31
22	1L	38	2MA	C5-C4-N3	-7.33	119.46	127.18
23	2K	55	5MU	C4-N3-C2	-7.23	117.86	127.34
23	2K	55	5MU	C5-C6-N1	-6.97	115.74	123.31
23	2L	8	4SU	C5-C4-N3	6.92	121.19	114.75
23	2L	55	5MU	C4-N3-C2	-6.67	118.59	127.34
22	1L	8	4SU	C4-N3-C2	-6.56	121.02	127.31
23	2K	8	4SU	C5-C4-S4	-6.32	117.08	124.31
22	1L	55	5MU	C6-C5-C4	6.28	123.20	118.02
22	1L	55	5MU	C4-N3-C2	-6.06	119.39	127.34
23	2L	55	5MU	C5-C6-N1	-6.00	116.80	123.31
22	1K	8	4SU	C5-C4-N3	5.99	120.32	114.75
23	2K	55	5MU	O4-C4-C5	-5.93	118.13	124.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	1K	38	2MA	C5-C4-N3	-5.93	120.93	127.18
22	1K	55	5MU	C4-N3-C2	-5.90	119.61	127.34
22	1L	55	5MU	C5-C6-N1	-5.80	117.01	123.31
22	1L	8	4SU	C5-C4-N3	5.76	120.11	114.75
22	1L	47	7MG	C5-C4-N9	5.73	113.68	106.33
22	1K	55	5MU	C6-C5-C4	5.72	122.74	118.02
23	2L	55	5MU	C6-C5-C4	5.68	122.70	118.02
23	2K	56	PSU	N1-C2-N3	5.50	120.97	115.17
23	2L	55	5MU	O4-C4-C5	-5.39	118.75	124.92
22	1K	55	5MU	C5-C6-N1	-5.37	117.48	123.31
23	2K	8	4SU	C5-C4-N3	5.37	119.75	114.75
23	2L	47	7MG	C5-C4-N9	5.28	113.10	106.33
23	2K	47	7MG	C5-C4-N9	5.28	113.09	106.33
23	2K	47	7MG	C6-C5-N7	-5.16	123.94	131.93
23	2L	47	7MG	C6-C5-N7	-5.15	123.95	131.93
22	1K	55	5MU	O4-C4-C5	-5.08	119.11	124.92
22	1K	47	7MG	C5-C6-N1	5.04	119.81	110.94
23	2K	55	5MU	C6-C5-C4	5.01	122.15	118.02
22	1L	47	7MG	C5-C6-N1	4.96	119.67	110.94
23	2K	55	5MU	C5M-C5-C6	-4.93	116.18	122.85
22	1K	47	7MG	C5-C4-N9	4.93	112.65	106.33
22	1L	47	7MG	C6-C5-N7	-4.92	124.30	131.93
22	1L	56	PSU	C4-N3-C2	-4.84	119.70	126.37
22	1L	38	2MA	N3-C4-N9	4.84	133.13	126.99
22	1L	56	PSU	N1-C2-N3	4.81	120.24	115.17
23	2L	47	7MG	C5-C6-N1	4.80	119.38	110.94
22	1K	47	7MG	C6-C5-N7	-4.78	124.52	131.93
22	1K	38	2MA	N9-C8-N7	-4.78	107.15	113.94
23	2K	56	PSU	C4-N3-C2	-4.72	119.88	126.37
22	1K	38	2MA	C4-N9-C1'	-4.67	115.70	126.63
22	1L	55	5MU	O4-C4-C5	-4.44	119.84	124.92
22	1K	47	7MG	C5-C4-N3	-4.42	119.83	128.13
23	2L	47	7MG	C2-N3-C4	4.31	119.72	112.30
23	2K	47	7MG	C5-C6-N1	4.29	118.49	110.94
23	2L	56	PSU	C4-N3-C2	-4.27	120.49	126.37
22	1K	47	7MG	C2-N3-C4	4.26	119.64	112.30
23	2K	8	4SU	N3-C2-N1	4.25	120.42	114.89
23	2K	56	PSU	C6-N1-C2	-4.23	118.76	122.69
22	1L	47	7MG	C5-C4-N3	-4.23	120.20	128.13
22	1K	56	PSU	N1-C2-N3	4.16	119.56	115.17
22	1K	55	5MU	C5M-C5-C6	-4.16	117.22	122.85
23	2K	47	7MG	C5-C4-N3	-4.15	120.33	128.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	2L	47	7MG	C5-C4-N3	-4.13	120.38	128.13
22	1L	55	5MU	C5M-C5-C6	-4.11	117.29	122.85
22	1L	47	7MG	C2-N3-C4	4.02	119.22	112.30
22	1K	38	2MA	C1'-N9-C8	3.92	135.79	127.09
22	1L	8	4SU	C1'-N1-C2	3.78	124.38	117.59
23	2L	55	5MU	C5M-C5-C6	-3.76	117.76	122.85
23	2L	8	4SU	N3-C2-N1	3.75	119.78	114.89
23	2L	8	4SU	C5-C4-S4	-3.67	120.11	124.31
22	1K	8	4SU	N3-C2-N1	3.63	119.62	114.89
23	2K	47	7MG	C2-N3-C4	3.61	118.52	112.30
22	1L	8	4SU	N3-C2-N1	3.58	119.55	114.89
22	1L	38	2MA	N3-C2-N1	-3.57	119.47	125.77
22	1L	38	2MA	N9-C8-N7	-3.51	108.96	113.94
22	1K	56	PSU	C4-N3-C2	-3.49	121.57	126.37
22	1K	56	PSU	C6-N1-C2	-3.42	119.52	122.69
22	1K	8	4SU	S4-C4-N3	3.40	123.76	120.20
23	2L	56	PSU	N1-C2-N3	3.39	118.74	115.17
22	1L	38	2MA	C4-N9-C1'	-3.38	118.72	126.63
23	2K	56	PSU	O2-C2-N1	-3.19	119.50	122.79
22	1K	47	7MG	N9-C8-N7	-3.19	98.86	103.37
22	1L	47	7MG	C2-N1-C6	-3.16	119.37	125.11
23	2L	47	7MG	O6-C6-C5	-3.16	119.86	127.62
22	1L	8	4SU	C5-C4-S4	-3.13	120.73	124.31
22	1K	38	2MA	N3-C4-N9	3.12	130.95	126.99
23	2K	8	4SU	C1'-N1-C2	3.12	123.19	117.59
22	1K	8	4SU	C1'-N1-C2	3.11	123.17	117.59
22	1L	38	2MA	C1'-N9-C8	3.11	133.99	127.09
23	2L	47	7MG	N9-C8-N7	-3.07	99.03	103.37
22	1L	55	5MU	C6-N1-C2	-3.02	118.29	121.30
22	1L	56	PSU	O2-C2-N1	-2.98	119.72	122.79
22	1K	38	2MA	C5-N7-C8	2.94	108.08	103.45
22	1K	38	2MA	N3-C2-N1	-2.93	120.59	125.77
22	1L	47	7MG	O6-C6-C5	-2.92	120.44	127.62
23	2L	55	5MU	N3-C2-N1	2.91	118.67	114.89
22	1K	55	5MU	C6-N1-C2	-2.87	118.44	121.30
23	2K	8	4SU	S4-C4-N3	2.83	123.17	120.20
22	1L	55	5MU	N3-C2-N1	2.79	118.53	114.89
22	1K	47	7MG	O6-C6-C5	-2.77	120.83	127.62
22	1L	47	7MG	N9-C8-N7	-2.76	99.46	103.37
23	2L	55	5MU	O2-C2-N1	-2.76	119.20	122.80
22	1K	56	PSU	O2-C2-N1	-2.76	119.94	122.79
23	2K	8	4SU	O2-C2-N1	-2.74	119.23	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	1K	47	7MG	C2-N1-C6	-2.74	120.15	125.11
23	2L	55	5MU	C6-N1-C2	-2.71	118.60	121.30
23	2K	55	5MU	C5M-C5-C4	2.71	121.67	118.78
23	2L	47	7MG	C2-N1-C6	-2.70	120.21	125.11
22	1L	33	RSP	C1'-N1-C2	2.66	124.29	118.45
22	1K	8	4SU	C6-N1-C2	-2.66	117.76	121.00
23	2K	47	7MG	C2-N1-C6	-2.66	120.29	125.11
22	1L	38	2MA	N6-C6-N1	2.62	120.57	117.03
22	1K	38	2MA	C4-N9-C8	2.60	108.46	105.74
22	1L	38	2MA	C5-N7-C8	2.54	107.44	103.45
23	2K	47	7MG	O6-C6-C5	-2.48	121.54	127.62
22	1K	55	5MU	N3-C2-N1	2.46	118.09	114.89
23	2K	47	7MG	N9-C8-N7	-2.42	99.94	103.37
22	1L	8	4SU	O2-C2-N3	-2.39	117.08	121.49
22	1L	38	2MA	CM2-C2-N3	2.38	120.69	117.13
22	1L	55	5MU	O2-C2-N1	-2.37	119.70	122.80
23	2K	55	5MU	O4-C4-N3	-2.37	115.65	120.11
22	1L	38	2MA	C6-C5-C4	2.33	120.36	117.18
23	2L	33	OMC	N4-C4-N3	2.29	122.01	117.91
23	2L	33	OMC	C1'-N1-C2	2.21	123.32	118.44
22	1L	56	PSU	C6-N1-C2	-2.19	120.66	122.69
22	1K	33	RSP	S2-C2-N3	-2.16	117.77	121.27
22	1K	38	2MA	C5-C4-N9	2.11	108.11	105.81
22	1K	38	2MA	C6-C5-C4	2.10	120.04	117.18
22	1K	38	2MA	C4-C5-N7	-2.09	108.19	110.58
23	2K	56	PSU	C6-C5-C4	2.09	119.58	118.17
22	1K	8	4SU	C6-C5-C4	-2.04	118.19	119.95
22	1L	56	PSU	C6-C5-C4	2.04	119.55	118.17
23	2K	33	OMC	O2-C2-N3	-2.02	119.15	122.33
23	2K	8	4SU	C1'-N1-C6	-2.01	116.48	120.78
22	1K	33	RSP	C1'-N1-C2	2.00	122.84	118.45

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
23	2K	33	OMC	C1'-C2'-O2'-CM2
23	2K	47	7MG	C2'-C1'-N9-C8
22	1K	33	RSP	C3'-C4'-C5'-O5'
22	1K	33	RSP	O4'-C4'-C5'-O5'
22	1L	33	RSP	C3'-C4'-C5'-O5'
22	1L	33	RSP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
22	1K	8	4SU	O4'-C4'-C5'-O5'
23	2L	47	7MG	C4'-C5'-O5'-P
22	1K	8	4SU	C3'-C4'-C5'-O5'
22	1L	8	4SU	C2'-C1'-N1-C2
22	1K	47	7MG	C2'-C1'-N9-C8
22	1L	47	7MG	C2'-C1'-N9-C8
22	1L	8	4SU	C2'-C1'-N1-C6
23	2L	47	7MG	C3'-C4'-C5'-O5'
22	1K	47	7MG	O4'-C1'-N9-C8
22	1L	8	4SU	O4'-C4'-C5'-O5'
22	1K	33	RSP	C2'-C1'-N1-C2
22	1L	47	7MG	O4'-C1'-N9-C8
22	1L	33	RSP	C2'-C1'-N1-C2
23	2K	47	7MG	C2'-C1'-N9-C4

There are no ring outliers.

16 monomers are involved in 33 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	2L	8	4SU	1	0
22	1L	8	4SU	1	0
23	2K	33	OMC	1	0
23	2K	47	7MG	1	0
22	1K	33	RSP	3	0
23	2L	47	7MG	4	0
23	2L	55	5MU	2	0
23	2K	8	4SU	1	0
22	1K	47	7MG	3	0
22	1K	56	PSU	1	0
22	1L	33	RSP	4	0
23	2L	33	OMC	1	0
22	1L	56	PSU	1	0
22	1K	38	2MA	2	0
22	1K	8	4SU	4	0
23	2K	55	5MU	3	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 1768 ligands modelled in this entry, 1766 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	$\#\|Z\| > 2$
61	SF4	32	303	4	0,12,12	-	-	-		
61	SF4	3E	303	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
61	SF4	32	303	4	-	-	0/6/5/5
61	SF4	3E	303	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.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
61	32	303	SF4	2	0
61	3E	303	SF4	2	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
24	3L	1
24	3K	1
32	41	1
29	11	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	3L	49:C	O3'	50:G	P	6.50
1	3K	49:C	O3'	50:G	P	5.32
1	41	140:ILE	C	141:PHE	N	1.19
1	11	239:ARG	C	240:ALA	N	1.09

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} 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	1512/1522 (99%)	-0.86	7 (0%) 87 75	68, 110, 180, 220	0
1	1G	1509/1522 (99%)	-0.82	7 (0%) 87 75	79, 125, 182, 224	0
2	12	237/256 (92%)	-0.36	1 (0%) 88 78	110, 137, 164, 180	0
2	1E	231/256 (90%)	-0.34	0 100 100	117, 151, 171, 180	0
3	22	195/239 (81%)	-0.28	3 (1%) 72 52	131, 151, 166, 176	0
3	2E	205/239 (85%)	-0.51	0 100 100	93, 117, 147, 162	0
4	32	208/209 (99%)	-0.26	2 (0%) 79 62	100, 122, 143, 147	0
4	3E	207/209 (99%)	-0.19	2 (0%) 79 62	92, 115, 134, 144	0
5	42	151/162 (93%)	-0.16	2 (1%) 75 55	107, 128, 149, 167	0
5	4E	149/162 (91%)	-0.26	2 (1%) 75 55	88, 109, 128, 132	0
6	52	101/101 (100%)	-0.57	0 100 100	92, 111, 129, 141	0
6	5E	101/101 (100%)	-0.43	0 100 100	91, 114, 128, 142	0
7	62	138/156 (88%)	-0.31	2 (1%) 73 53	121, 135, 148, 154	0
7	6E	154/156 (98%)	0.13	8 (5%) 33 19	111, 129, 154, 163	0
8	72	138/138 (100%)	-0.27	3 (2%) 62 41	112, 131, 143, 149	0
8	7E	138/138 (100%)	-0.31	0 100 100	98, 117, 128, 140	0
9	82	124/128 (96%)	-0.13	2 (1%) 70 50	122, 161, 175, 190	0
9	8E	126/128 (98%)	-0.17	1 (0%) 82 66	95, 145, 164, 171	0
10	1A	99/105 (94%)	-0.26	0 100 100	118, 138, 151, 153	0
10	1I	99/105 (94%)	-0.04	0 100 100	92, 124, 144, 148	0
11	2A	113/129 (87%)	-0.17	1 (0%) 81 64	92, 116, 131, 143	0
11	2I	111/129 (86%)	0.37	3 (2%) 56 35	86, 114, 135, 142	0
12	3A	121/132 (91%)	0.43	10 (8%) 17 10	91, 113, 134, 148	0
12	3I	122/132 (92%)	0.06	6 (4%) 35 20	77, 88, 113, 138	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	4A	111/126 (88%)	-0.16	5 (4%) 38 22	129, 155, 169, 174	0
13	4I	119/126 (94%)	-0.40	1 (0%) 82 66	86, 130, 147, 152	0
14	5A	57/61 (93%)	0.20	3 (5%) 32 18	138, 150, 162, 166	0
14	5I	61/61 (100%)	-0.54	0 100 100	94, 106, 121, 134	0
15	6A	87/89 (97%)	-0.43	0 100 100	96, 120, 138, 142	0
15	6I	87/89 (97%)	-0.44	0 100 100	91, 107, 128, 137	0
16	7A	84/88 (95%)	-0.45	0 100 100	99, 112, 133, 156	0
16	7I	83/88 (94%)	-0.28	0 100 100	104, 118, 149, 162	0
17	8A	99/105 (94%)	-0.27	0 100 100	101, 118, 129, 136	0
17	8I	100/105 (95%)	-0.24	0 100 100	97, 113, 127, 139	0
18	9A	67/88 (76%)	-0.62	0 100 100	100, 119, 136, 138	0
18	9I	67/88 (76%)	-0.41	0 100 100	97, 115, 138, 144	0
19	AA	62/93 (66%)	0.35	6 (9%) 13 8	146, 161, 169, 172	0
19	AI	80/93 (86%)	-0.22	0 100 100	106, 125, 148, 154	0
20	BA	98/106 (92%)	-0.45	1 (1%) 79 62	97, 119, 146, 163	0
20	BI	98/106 (92%)	-0.07	0 100 100	114, 127, 156, 162	0
21	1B	24/27 (88%)	-0.16	0 100 100	128, 147, 157, 166	0
21	1F	24/27 (88%)	-0.62	0 100 100	106, 116, 128, 142	0
22	1K	65/77 (84%)	-0.38	2 (3%) 51 31	89, 150, 178, 186	0
22	1L	67/77 (87%)	-0.51	0 100 100	112, 160, 182, 187	0
23	2K	72/77 (93%)	-0.65	0 100 100	78, 109, 139, 149	0
23	2L	72/77 (93%)	-0.49	1 (1%) 73 53	86, 125, 159, 170	0
24	3K	73/77 (94%)	0.44	5 (6%) 23 13	85, 166, 185, 189	0
24	3L	74/77 (96%)	0.22	1 (1%) 73 53	92, 168, 183, 186	0
25	4K	21/27 (77%)	0.65	4 (19%) 3 2	82, 143, 200, 201	0
25	4L	17/27 (62%)	0.59	1 (5%) 28 16	104, 151, 206, 207	0
26	14	2895/2917 (99%)	-0.97	5 (0%) 91 84	61, 95, 202, 230	0
26	1H	2895/2917 (99%)	-1.05	2 (0%) 92 88	54, 83, 192, 225	0
27	16	122/122 (100%)	-1.28	0 100 100	79, 104, 129, 209	0
27	1J	122/122 (100%)	-0.91	1 (0%) 82 66	101, 133, 153, 192	0
28	71	134/229 (58%)	-0.08	3 (2%) 62 41	146, 186, 200, 206	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	79	130/229 (56%)	0.40	6 (4%) 37 21	156, 231, 253, 258	0
29	11	273/276 (98%)	-0.29	2 (0%) 84 69	50, 76, 93, 102	0
29	19	273/276 (98%)	-0.10	7 (2%) 57 36	60, 83, 99, 121	0
30	21	203/206 (98%)	0.11	5 (2%) 58 37	60, 94, 134, 148	0
30	29	203/206 (98%)	-0.31	3 (1%) 72 52	68, 100, 138, 150	0
31	31	202/210 (96%)	-0.31	1 (0%) 87 75	57, 88, 123, 137	0
31	39	206/210 (98%)	-0.40	2 (0%) 79 62	68, 110, 156, 176	0
32	41	179/182 (98%)	-0.48	2 (1%) 78 60	94, 115, 147, 155	0
32	49	179/182 (98%)	-0.04	1 (0%) 85 72	123, 143, 167, 181	0
33	51	171/180 (95%)	-0.01	1 (0%) 85 72	88, 113, 128, 137	0
33	59	171/180 (95%)	0.44	16 (9%) 14 8	107, 169, 188, 196	0
34	18	30/125 (24%)	-0.16	0 100 100	150, 157, 161, 162	0
34	28	30/125 (24%)	-0.09	0 100 100	151, 160, 165, 168	0
35	61	145/148 (97%)	-0.31	1 (0%) 84 69	88, 137, 156, 159	0
35	69	145/148 (97%)	-0.22	0 100 100	91, 129, 147, 155	0
36	38	143/173 (82%)	0.42	8 (5%) 30 17	154, 174, 183, 187	0
37	48	142/147 (96%)	-0.19	0 100 100	197, 208, 212, 214	0
38	15	137/140 (97%)	-0.09	2 (1%) 72 52	89, 114, 144, 154	0
38	58	137/140 (97%)	0.04	4 (2%) 53 34	77, 98, 134, 147	0
39	25	122/122 (100%)	0.13	3 (2%) 58 37	78, 96, 115, 129	0
39	68	122/122 (100%)	0.15	3 (2%) 58 37	70, 87, 104, 111	0
40	35	148/150 (98%)	-0.08	4 (2%) 56 35	71, 113, 146, 164	0
40	78	147/150 (98%)	-0.13	4 (2%) 56 35	62, 91, 113, 122	0
41	45	138/141 (97%)	-0.04	6 (4%) 40 23	82, 113, 133, 154	0
41	88	141/141 (100%)	-0.36	0 100 100	68, 89, 110, 140	0
42	55	118/118 (100%)	-0.54	0 100 100	69, 90, 109, 126	0
42	98	118/118 (100%)	-0.16	2 (1%) 69 48	74, 91, 111, 125	0
43	65	110/112 (98%)	-0.42	1 (0%) 81 64	97, 125, 144, 149	0
43	A8	111/112 (99%)	-0.63	0 100 100	82, 100, 120, 131	0
44	75	134/146 (91%)	-0.03	5 (3%) 45 26	89, 104, 145, 170	0
44	B8	136/146 (93%)	-0.08	5 (3%) 45 26	82, 98, 151, 167	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
45	85	117/118 (99%)	-0.12	0 100 100	76, 103, 136, 146	0
45	C8	115/118 (97%)	-0.17	1 (0%) 81 64	63, 87, 118, 127	0
46	95	100/101 (99%)	0.21	3 (3%) 52 32	79, 128, 146, 159	0
46	D8	101/101 (100%)	0.13	3 (2%) 52 32	65, 108, 129, 137	0
47	A5	111/113 (98%)	0.03	2 (1%) 67 47	72, 86, 115, 139	0
47	E8	112/113 (99%)	-0.49	2 (1%) 67 47	66, 80, 115, 146	0
48	B5	94/96 (97%)	-0.24	0 100 100	78, 94, 116, 128	0
48	F8	95/96 (98%)	-0.25	0 100 100	64, 80, 103, 116	0
49	C5	106/110 (96%)	0.73	13 (12%) 8 5	96, 119, 155, 170	0
49	G8	105/110 (95%)	0.24	5 (4%) 35 20	81, 101, 128, 143	0
50	D5	200/206 (97%)	-0.39	0 100 100	108, 141, 189, 200	0
50	H8	165/206 (80%)	-0.51	0 100 100	95, 126, 172, 180	0
51	E5	78/85 (91%)	-0.17	1 (1%) 75 55	82, 100, 115, 125	0
51	I8	81/85 (95%)	-0.08	5 (6%) 26 15	66, 85, 109, 130	0
52	F5	94/98 (95%)	0.26	3 (3%) 50 30	72, 93, 125, 131	0
52	J8	93/98 (94%)	-0.26	1 (1%) 78 60	66, 83, 126, 132	0
53	G5	66/72 (91%)	-0.19	1 (1%) 72 52	90, 114, 135, 157	0
53	K8	69/72 (95%)	-0.15	1 (1%) 73 53	71, 91, 108, 129	0
54	H5	58/60 (96%)	-0.20	0 100 100	88, 108, 134, 144	0
54	L8	58/60 (96%)	-0.46	0 100 100	73, 89, 119, 129	0
55	M8	48/71 (67%)	-0.39	0 100 100	118, 153, 165, 170	0
56	J5	56/60 (93%)	-0.27	0 100 100	67, 93, 142, 145	0
56	N8	50/60 (83%)	-0.20	2 (4%) 42 24	61, 92, 140, 144	0
57	O8	45/54 (83%)	0.27	1 (2%) 62 41	121, 140, 153, 158	0
58	L5	47/49 (95%)	-0.30	1 (2%) 63 42	64, 71, 95, 101	0
58	P8	47/49 (95%)	-0.51	1 (2%) 63 42	56, 64, 86, 99	0
59	M5	64/65 (98%)	-0.05	2 (3%) 51 31	79, 90, 104, 135	0
59	Q8	64/65 (98%)	-0.28	0 100 100	65, 81, 97, 110	0
All	All	21409/22595 (94%)	-0.50	245 (1%) 78 60	50, 110, 180, 258	0

All (245) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
56	N8	2	ALA	9.6
44	75	106	SER	6.5
7	6E	81	GLY	6.5
29	19	274	ARG	6.1
49	C5	53	PRO	5.9
12	3A	19	ARG	5.8
49	C5	29	GLU	5.5
1	13	85	U	5.5
49	G8	106	LEU	5.5
41	45	90	VAL	5.3
33	59	105	LEU	5.1
49	C5	107	ASP	4.7
1	13	86	U	4.4
51	I8	5	LYS	4.4
13	4A	117	VAL	4.3
49	C5	58	GLY	4.2
45	C8	116	ALA	4.2
28	79	176	GLY	4.1
7	6E	82	GLY	4.0
12	3I	28	LYS	4.0
33	59	131	VAL	4.0
11	2I	25	TYR	3.9
7	6E	80	VAL	3.9
29	19	5	LYS	3.9
29	19	27	THR	3.8
49	G8	2	ARG	3.8
12	3I	64	TYR	3.8
33	59	99	VAL	3.8
46	D8	101	GLY	3.8
12	3A	55	VAL	3.7
12	3A	21	LYS	3.7
44	75	50	ILE	3.7
49	C5	44	ILE	3.6
49	C5	50	ARG	3.6
30	21	195	LEU	3.6
33	59	98	LEU	3.5
12	3A	29	GLY	3.5
28	71	208	PHE	3.4
1	1G	887	G	3.4
1	1G	888	G	3.3
14	5A	39	LEU	3.3
7	6E	85	TYR	3.3
51	E5	7	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
49	C5	59	GLY	3.2
44	B8	106	SER	3.2
12	3A	28	LYS	3.2
46	D8	38	LEU	3.2
1	1G	886	G	3.2
44	B8	104	ASN	3.2
53	K8	69	ARG	3.2
7	6E	83	ALA	3.2
29	19	26	LYS	3.1
33	59	114	VAL	3.1
30	21	151	TYR	3.1
36	38	77	PRO	3.1
41	45	2	LEU	3.1
33	59	107	VAL	3.1
1	13	84	U	3.1
33	59	115	VAL	3.1
24	3K	13	C	3.0
26	1H	888	C	3.0
53	G5	43	GLN	3.0
3	22	198	VAL	3.0
1	1G	912	C	3.0
49	C5	45	VAL	3.0
38	15	84	LYS	2.9
22	1K	77	A	2.9
25	4K	13	A	2.9
7	62	87	VAL	2.9
7	62	146	GLU	2.9
11	2I	126	ARG	2.9
49	C5	47	LYS	2.9
44	75	101	PHE	2.8
44	B8	70	VAL	2.8
42	98	7	GLY	2.8
33	59	113	VAL	2.8
1	1G	913	A	2.8
32	49	3	LEU	2.8
41	45	91	GLU	2.8
33	59	96	ALA	2.7
38	15	46	VAL	2.7
46	D8	37	VAL	2.7
33	59	103	LEU	2.7
26	14	888	C	2.7
9	82	50	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
13	4A	95	GLY	2.7
39	25	41	ALA	2.7
39	68	81	ASP	2.7
1	1G	915	A	2.6
4	3E	176	LEU	2.6
12	3I	18	VAL	2.6
47	E8	96	ILE	2.6
4	3E	110	PHE	2.6
25	4K	14	A	2.6
35	61	116	LEU	2.6
57	O8	9	LEU	2.6
13	4I	118	ALA	2.6
38	58	92	ALA	2.6
19	AA	62	ILE	2.6
32	41	25	TYR	2.6
7	6E	86	GLN	2.6
23	2L	40	C	2.6
59	M5	34	TRP	2.6
41	45	103	MET	2.6
33	51	44	VAL	2.6
47	A5	111	HIS	2.5
7	6E	149	ARG	2.5
7	6E	103	TRP	2.5
49	C5	61	ILE	2.5
12	3I	27	LEU	2.5
24	3K	71	U	2.5
30	21	78	LEU	2.5
42	98	113	LEU	2.5
52	F5	77	ALA	2.5
26	14	1026	U	2.5
28	79	193	ILE	2.5
36	38	28	ASN	2.5
46	95	36	PRO	2.5
52	F5	85	LEU	2.5
12	3I	29	GLY	2.5
40	35	20	GLY	2.5
36	38	27	VAL	2.5
52	J8	91	LYS	2.5
36	38	63	LEU	2.5
5	42	109	ILE	2.4
52	F5	17	SER	2.4
12	3A	23	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
30	29	149	ARG	2.4
30	21	90	THR	2.4
5	4E	13	ILE	2.4
51	I8	4	LYS	2.4
24	3K	35	A	2.4
8	72	86	ILE	2.4
12	3A	26	ALA	2.4
29	11	105	ILE	2.4
49	G8	3	VAL	2.4
14	5A	38	GLY	2.4
3	22	162	GLN	2.4
47	E8	92	ARG	2.4
1	13	345	C	2.4
1	13	1536	C	2.4
31	31	66	PRO	2.4
30	29	151	TYR	2.4
33	59	100	GLY	2.3
29	19	273	ARG	2.3
46	95	81	TYR	2.3
49	G8	105	ALA	2.3
51	I8	7	LEU	2.3
28	79	189	ILE	2.3
39	68	84	ALA	2.3
2	12	102	LEU	2.3
51	I8	84	LEU	2.3
28	79	41	VAL	2.3
39	68	52	VAL	2.3
40	78	17	LYS	2.3
49	C5	22	GLY	2.3
12	3A	68	ALA	2.3
28	71	196	LEU	2.3
44	B8	109	GLU	2.3
39	25	27	GLY	2.3
29	19	181	GLU	2.2
1	13	968	A	2.2
5	4E	24	ARG	2.2
26	14	2902	C	2.2
31	39	72	ARG	2.2
20	BA	9	ASN	2.2
36	38	107	VAL	2.2
59	M5	16	ILE	2.2
9	82	115	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
13	4A	111	LYS	2.2
33	59	172	LYS	2.2
12	3I	19	ARG	2.2
58	P8	47	ARG	2.2
49	C5	57	GLN	2.2
44	75	102	ILE	2.2
8	72	133	LEU	2.2
29	11	111	LEU	2.2
36	38	9	LEU	2.2
40	35	47	ASP	2.2
33	59	106	THR	2.2
12	3A	64	TYR	2.2
19	AA	67	VAL	2.2
43	65	82	ILE	2.2
22	1K	74	A	2.2
26	14	2015	A	2.2
51	I8	6	GLY	2.2
11	2I	87	THR	2.2
28	79	40	THR	2.2
41	45	79	LEU	2.2
13	4A	107	ALA	2.2
29	19	2	ALA	2.2
11	2A	126	ARG	2.2
25	4L	15	A	2.2
19	AA	9	VAL	2.1
19	AA	60	VAL	2.1
38	58	22	THR	2.1
30	29	203	LYS	2.1
38	58	129	PRO	2.1
26	1H	1130	U	2.1
40	35	58	THR	2.1
14	5A	7	ILE	2.1
25	4K	12	A	2.1
25	4K	25	A	2.1
56	N8	51	TYR	2.1
28	71	47	LEU	2.1
33	59	86	GLU	2.1
1	1G	883	C	2.1
27	1J	88	C	2.1
4	32	110	PHE	2.1
36	38	100	ASN	2.1
31	39	65	TRP	2.1

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Mol	Chain	Res	Type	RSRZ
49	C5	24	VAL	2.1
3	22	43	LEU	2.1
41	45	68	ILE	2.1
24	3L	60	A	2.1
33	59	112	PRO	2.1
26	14	1816	G	2.1
58	L5	1	MET	2.1
30	21	187	ALA	2.1
38	58	68	GLU	2.1
33	59	155	SER	2.1
40	78	25	SER	2.1
32	41	3	LEU	2.1
40	35	50	ARG	2.1
13	4A	118	ALA	2.1
40	78	22	GLY	2.1
5	42	88	LYS	2.0
49	G8	24	VAL	2.0
4	32	146	ILE	2.0
39	25	2	ILE	2.0
19	AA	44	MET	2.0
8	72	131	GLY	2.0
9	8E	127	LYS	2.0
40	78	19	VAL	2.0
46	95	71	LEU	2.0
24	3K	34	U	2.0
12	3A	13	LYS	2.0
36	38	145	PRO	2.0
1	13	338	A	2.0
19	AA	41	VAL	2.0
28	79	175	VAL	2.0
44	B8	30	VAL	2.0
47	A5	92	ARG	2.0
44	75	105	LEU	2.0
24	3K	36	C	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, 95^{th} 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
22	7MG	1K	47	24/25	0.69	0.12	142,157,163,168	0
22	7MG	1L	47	24/25	0.74	0.08	159,163,169,177	0
22	4SU	1L	8	20/21	0.75	0.09	157,161,167,167	0
22	4SU	1K	8	20/21	0.83	0.09	142,150,156,156	0
23	PSU	2L	56	20/21	0.83	0.08	129,138,140,146	0
22	PSU	1L	56	20/21	0.85	0.06	140,148,154,154	0
23	5MU	2L	55	21/22	0.86	0.08	132,143,146,149	0
22	PSU	1K	56	20/21	0.86	0.07	116,128,139,144	0
22	RSP	1K	33	20/21	0.88	0.10	110,117,134,144	0
22	5MU	1L	55	21/22	0.88	0.06	137,142,147,154	0
23	4SU	2K	8	20/21	0.89	0.11	95,103,109,110	0
22	RSP	1L	33	20/21	0.90	0.08	126,132,145,149	0
23	PSU	2K	56	20/21	0.90	0.05	106,112,123,129	0
22	5MU	1K	55	21/22	0.90	0.06	119,130,139,146	0
23	7MG	2L	47	24/25	0.91	0.07	132,141,148,149	0
22	2MA	1L	38	23/24	0.92	0.08	104,116,119,122	0
23	7MG	2K	47	24/25	0.92	0.07	107,113,121,124	0
23	5MU	2K	55	21/22	0.93	0.06	109,116,123,133	0
23	4SU	2L	8	20/21	0.93	0.07	122,130,137,140	0
22	2MA	1K	38	23/24	0.95	0.06	83,88,93,97	0
23	OMC	2L	33	21/22	0.96	0.08	102,111,118,124	0
23	OMC	2K	33	21/22	0.97	0.08	83,88,93,95	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(Å^2)	Q<0.9
60	MG	13	1722	1/1	0.23	0.33	124,124,124,124	0
60	MG	1K	102	1/1	0.32	0.24	134,134,134,134	0
60	MG	1H	3239	1/1	0.42	0.24	114,114,114,114	0
60	MG	1H	3259	1/1	0.42	0.21	174,174,174,174	0
60	MG	1H	3221	1/1	0.44	0.19	107,107,107,107	0
60	MG	1G	1647	1/1	0.44	0.31	104,104,104,104	0
60	MG	1G	1690	1/1	0.44	0.26	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3212	1/1	0.44	0.28	89,89,89,89	0
60	MG	14	3203	1/1	0.46	0.23	97,97,97,97	0
60	MG	1G	1672	1/1	0.48	0.26	110,110,110,110	0
60	MG	1J	203	1/1	0.49	0.21	128,128,128,128	0
60	MG	14	3236	1/1	0.50	0.35	103,103,103,103	0
60	MG	13	1724	1/1	0.52	0.26	107,107,107,107	0
60	MG	1G	1668	1/1	0.52	0.21	107,107,107,107	0
60	MG	14	3250	1/1	0.53	0.27	110,110,110,110	0
60	MG	45	201	1/1	0.53	0.19	111,111,111,111	0
60	MG	14	3256	1/1	0.54	0.29	108,108,108,108	0
60	MG	1H	3219	1/1	0.54	0.40	100,100,100,100	0
60	MG	13	1634	1/1	0.54	0.26	113,113,113,113	0
60	MG	14	3132	1/1	0.55	0.21	138,138,138,138	0
60	MG	14	3262	1/1	0.55	0.23	96,96,96,96	0
60	MG	1H	3267	1/1	0.56	0.26	90,90,90,90	0
60	MG	1H	3230	1/1	0.56	0.22	112,112,112,112	0
60	MG	14	3221	1/1	0.58	0.20	98,98,98,98	0
60	MG	14	3069	1/1	0.59	0.20	100,100,100,100	0
60	MG	1G	1667	1/1	0.59	0.21	121,121,121,121	0
60	MG	1H	3264	1/1	0.59	0.24	93,93,93,93	0
60	MG	14	3211	1/1	0.59	0.20	116,116,116,116	0
60	MG	14	3268	1/1	0.59	0.23	105,105,105,105	0
60	MG	13	1662	1/1	0.59	0.23	98,98,98,98	0
60	MG	13	1702	1/1	0.59	0.28	105,105,105,105	0
60	MG	1G	1670	1/1	0.60	0.18	105,105,105,105	0
60	MG	13	1700	1/1	0.61	0.18	108,108,108,108	0
60	MG	14	3209	1/1	0.61	0.28	95,95,95,95	0
60	MG	13	1696	1/1	0.61	0.24	104,104,104,104	0
60	MG	N8	101	1/1	0.62	0.15	92,92,92,92	0
60	MG	13	1725	1/1	0.62	0.31	110,110,110,110	0
60	MG	14	3012	1/1	0.62	0.25	107,107,107,107	0
60	MG	14	3241	1/1	0.62	0.19	103,103,103,103	0
60	MG	1G	1648	1/1	0.62	0.35	99,99,99,99	0
60	MG	14	3157	1/1	0.63	0.28	93,93,93,93	0
60	MG	1H	3165	1/1	0.63	0.22	99,99,99,99	0
60	MG	14	3246	1/1	0.63	0.27	110,110,110,110	0
60	MG	1H	3164	1/1	0.64	0.18	106,106,106,106	0
60	MG	1H	3139	1/1	0.64	0.16	85,85,85,85	0
60	MG	1H	3187	1/1	0.64	0.11	88,88,88,88	0
60	MG	1H	3285	1/1	0.64	0.23	96,96,96,96	0
60	MG	14	3226	1/1	0.64	0.18	100,100,100,100	0
60	MG	16	212	1/1	0.64	0.22	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3213	1/1	0.64	0.30	112,112,112,112	0
60	MG	1H	3103	1/1	0.65	0.19	98,98,98,98	0
60	MG	13	1674	1/1	0.65	0.24	102,102,102,102	0
60	MG	1H	3224	1/1	0.65	0.22	80,80,80,80	0
60	MG	1H	3229	1/1	0.65	0.21	117,117,117,117	0
60	MG	13	1664	1/1	0.65	0.29	94,94,94,94	0
60	MG	1H	3315	1/1	0.65	0.23	92,92,92,92	0
60	MG	14	3270	1/1	0.65	0.31	103,103,103,103	0
60	MG	14	3337	1/1	0.65	0.23	105,105,105,105	0
60	MG	14	3140	1/1	0.65	0.39	97,97,97,97	0
60	MG	14	3147	1/1	0.65	0.16	74,74,74,74	0
60	MG	14	3302	1/1	0.66	0.14	99,99,99,99	0
60	MG	14	3023	1/1	0.66	0.20	64,64,64,64	0
60	MG	13	1686	1/1	0.66	0.19	113,113,113,113	0
60	MG	14	3107	1/1	0.66	0.22	75,75,75,75	0
60	MG	13	1677	1/1	0.67	0.16	94,94,94,94	0
60	MG	1G	1680	1/1	0.67	0.16	124,124,124,124	0
60	MG	1G	1637	1/1	0.67	0.18	146,146,146,146	0
60	MG	14	3182	1/1	0.67	0.18	101,101,101,101	0
60	MG	1H	3098	1/1	0.67	0.22	74,74,74,74	0
60	MG	1H	3227	1/1	0.67	0.21	108,108,108,108	0
60	MG	14	3030	1/1	0.67	0.14	104,104,104,104	0
60	MG	14	3298	1/1	0.67	0.21	117,117,117,117	0
60	MG	1H	3635	1/1	0.67	0.28	115,115,115,115	0
60	MG	14	3074	1/1	0.67	0.23	105,105,105,105	0
60	MG	1H	3646	1/1	0.67	0.17	99,99,99,99	0
60	MG	13	1701	1/1	0.67	0.39	102,102,102,102	0
60	MG	1H	3192	1/1	0.68	0.21	99,99,99,99	0
60	MG	14	3100	1/1	0.68	0.12	88,88,88,88	0
60	MG	13	1698	1/1	0.68	0.25	98,98,98,98	0
60	MG	13	1668	1/1	0.68	0.39	91,91,91,91	0
60	MG	14	3231	1/1	0.68	0.25	94,94,94,94	0
60	MG	1G	1696	1/1	0.68	0.23	118,118,118,118	0
60	MG	1H	3320	1/1	0.69	0.28	92,92,92,92	0
60	MG	1G	1689	1/1	0.69	0.29	104,104,104,104	0
60	MG	14	3055	1/1	0.69	0.16	84,84,84,84	0
60	MG	1H	3193	1/1	0.69	0.34	93,93,93,93	0
60	MG	1H	3290	1/1	0.69	0.13	85,85,85,85	0
60	MG	1L	101	1/1	0.69	0.16	124,124,124,124	0
60	MG	14	3009	1/1	0.69	0.24	84,84,84,84	0
60	MG	13	1655	1/1	0.69	0.19	91,91,91,91	0
60	MG	13	1658	1/1	0.70	0.26	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1G	1643	1/1	0.70	0.33	96,96,96,96	0
60	MG	13	1704	1/1	0.70	0.26	91,91,91,91	0
60	MG	1H	3237	1/1	0.70	0.23	79,79,79,79	0
60	MG	1G	1693	1/1	0.70	0.21	103,103,103,103	0
60	MG	14	3240	1/1	0.70	0.22	93,93,93,93	0
60	MG	16	211	1/1	0.70	0.11	97,97,97,97	0
60	MG	14	3344	1/1	0.70	0.21	97,97,97,97	0
60	MG	14	3549	1/1	0.70	0.24	119,119,119,119	0
60	MG	13	1721	1/1	0.70	0.13	94,94,94,94	0
60	MG	1H	3183	1/1	0.70	0.18	80,80,80,80	0
60	MG	14	3146	1/1	0.71	0.26	91,91,91,91	0
60	MG	1H	3246	1/1	0.71	0.19	98,98,98,98	0
60	MG	14	3148	1/1	0.71	0.31	87,87,87,87	0
60	MG	1H	3317	1/1	0.71	0.23	95,95,95,95	0
60	MG	14	3257	1/1	0.71	0.22	111,111,111,111	0
60	MG	14	3259	1/1	0.71	0.28	100,100,100,100	0
60	MG	1H	3189	1/1	0.71	0.22	97,97,97,97	0
60	MG	1G	1681	1/1	0.71	0.29	104,104,104,104	0
60	MG	2K	102	1/1	0.71	0.20	106,106,106,106	0
60	MG	2K	104	1/1	0.71	0.20	88,88,88,88	0
60	MG	1G	1652	1/1	0.71	0.23	98,98,98,98	0
60	MG	1G	1663	1/1	0.71	0.27	101,101,101,101	0
60	MG	14	3124	1/1	0.71	0.30	89,89,89,89	0
60	MG	1H	3238	1/1	0.71	0.26	99,99,99,99	0
60	MG	13	1676	1/1	0.71	0.13	99,99,99,99	0
60	MG	14	3142	1/1	0.71	0.20	93,93,93,93	0
60	MG	5E	201	1/1	0.72	0.14	114,114,114,114	0
60	MG	13	1687	1/1	0.72	0.33	114,114,114,114	0
60	MG	1G	1632	1/1	0.72	0.21	93,93,93,93	0
60	MG	14	3077	1/1	0.72	0.35	103,103,103,103	0
60	MG	1H	3250	1/1	0.72	0.17	102,102,102,102	0
60	MG	14	3181	1/1	0.72	0.23	88,88,88,88	0
60	MG	1H	3194	1/1	0.72	0.37	98,98,98,98	0
60	MG	14	3191	1/1	0.72	0.32	99,99,99,99	0
60	MG	13	1732	1/1	0.72	0.26	97,97,97,97	0
60	MG	2K	103	1/1	0.72	0.15	110,110,110,110	0
60	MG	35	201	1/1	0.72	0.15	87,87,87,87	0
60	MG	1H	3160	1/1	0.72	0.19	87,87,87,87	0
60	MG	13	1675	1/1	0.73	0.29	81,81,81,81	0
60	MG	1H	3286	1/1	0.73	0.25	89,89,89,89	0
60	MG	14	3079	1/1	0.73	0.22	112,112,112,112	0
60	MG	14	3249	1/1	0.73	0.26	99,99,99,99	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3327	1/1	0.73	0.18	100,100,100,100	0
60	MG	1G	1687	1/1	0.73	0.14	110,110,110,110	0
60	MG	14	3251	1/1	0.73	0.18	88,88,88,88	0
60	MG	1H	3176	1/1	0.73	0.19	106,106,106,106	0
60	MG	16	202	1/1	0.73	0.22	101,101,101,101	0
60	MG	13	1747	1/1	0.73	0.20	107,107,107,107	0
60	MG	1H	3185	1/1	0.73	0.20	86,86,86,86	0
60	MG	3E	301	1/1	0.74	0.21	127,127,127,127	0
60	MG	1G	1610	1/1	0.74	0.17	122,122,122,122	0
60	MG	14	3112	1/1	0.74	0.20	91,91,91,91	0
60	MG	14	3006	1/1	0.74	0.20	86,86,86,86	0
60	MG	1H	3094	1/1	0.74	0.23	87,87,87,87	0
60	MG	14	3133	1/1	0.74	0.12	107,107,107,107	0
60	MG	1H	3196	1/1	0.74	0.23	83,83,83,83	0
60	MG	1G	1673	1/1	0.74	0.25	97,97,97,97	0
60	MG	1H	3197	1/1	0.74	0.14	91,91,91,91	0
60	MG	1G	1646	1/1	0.74	0.21	103,103,103,103	0
60	MG	1H	3231	1/1	0.74	0.17	90,90,90,90	0
60	MG	3E	302	1/1	0.74	0.33	95,95,95,95	0
60	MG	13	1717	1/1	0.74	0.19	121,121,121,121	0
60	MG	1H	3114	1/1	0.74	0.14	57,57,57,57	0
60	MG	14	3188	1/1	0.74	0.25	82,82,82,82	0
60	MG	13	1667	1/1	0.75	0.21	84,84,84,84	0
60	MG	1H	3095	1/1	0.75	0.14	94,94,94,94	0
60	MG	13	1688	1/1	0.75	0.22	89,89,89,89	0
60	MG	31	302	1/1	0.75	0.26	90,90,90,90	0
60	MG	1H	3014	1/1	0.75	0.18	92,92,92,92	0
60	MG	1H	3112	1/1	0.75	0.25	104,104,104,104	0
60	MG	1H	3249	1/1	0.75	0.21	96,96,96,96	0
60	MG	1H	3113	1/1	0.75	0.17	47,47,47,47	0
60	MG	1H	3318	1/1	0.75	0.14	114,114,114,114	0
60	MG	1H	3251	1/1	0.75	0.37	88,88,88,88	0
60	MG	14	3338	1/1	0.75	0.16	111,111,111,111	0
60	MG	14	3165	1/1	0.75	0.25	92,92,92,92	0
60	MG	1H	3328	1/1	0.75	0.14	96,96,96,96	0
60	MG	1H	3048	1/1	0.75	0.17	67,67,67,67	0
60	MG	14	3184	1/1	0.75	0.26	93,93,93,93	0
60	MG	1H	3262	1/1	0.75	0.30	94,94,94,94	0
60	MG	13	1652	1/1	0.76	0.22	94,94,94,94	0
60	MG	14	3073	1/1	0.76	0.24	110,110,110,110	0
60	MG	1H	3163	1/1	0.76	0.21	101,101,101,101	0
60	MG	1H	3597	1/1	0.76	0.20	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3210	1/1	0.76	0.33	76,76,76,76	0
60	MG	5E	202	1/1	0.76	0.18	104,104,104,104	0
60	MG	14	3315	1/1	0.76	0.18	87,87,87,87	0
60	MG	13	1728	1/1	0.76	0.23	94,94,94,94	0
60	MG	16	208	1/1	0.76	0.18	104,104,104,104	0
60	MG	14	3248	1/1	0.76	0.26	95,95,95,95	0
60	MG	16	209	1/1	0.76	0.16	108,108,108,108	0
60	MG	13	1644	1/1	0.76	0.46	102,102,102,102	0
60	MG	14	3035	1/1	0.76	0.20	85,85,85,85	0
60	MG	29	302	1/1	0.76	0.15	85,85,85,85	0
60	MG	1H	3156	1/1	0.76	0.17	101,101,101,101	0
60	MG	14	3063	1/1	0.76	0.29	104,104,104,104	0
60	MG	14	3121	1/1	0.77	0.26	96,96,96,96	0
60	MG	14	3294	1/1	0.77	0.19	100,100,100,100	0
60	MG	1H	3083	1/1	0.77	0.16	80,80,80,80	0
60	MG	14	3245	1/1	0.77	0.16	101,101,101,101	0
60	MG	14	3309	1/1	0.77	0.17	77,77,77,77	0
60	MG	13	1642	1/1	0.77	0.14	100,100,100,100	0
60	MG	13	1692	1/1	0.77	0.21	99,99,99,99	0
60	MG	14	3334	1/1	0.77	0.16	117,117,117,117	0
60	MG	1H	3244	1/1	0.77	0.19	97,97,97,97	0
60	MG	1G	1671	1/1	0.77	0.20	96,96,96,96	0
60	MG	1H	3256	1/1	0.77	0.30	102,102,102,102	0
60	MG	14	3081	1/1	0.77	0.31	77,77,77,77	0
60	MG	14	3086	1/1	0.77	0.20	63,63,63,63	0
60	MG	1J	204	1/1	0.77	0.17	116,116,116,116	0
60	MG	14	3034	1/1	0.77	0.20	80,80,80,80	0
60	MG	1H	3258	1/1	0.77	0.34	88,88,88,88	0
60	MG	32	301	1/1	0.77	0.18	102,102,102,102	0
60	MG	1H	3111	1/1	0.78	0.14	89,89,89,89	0
60	MG	14	3084	1/1	0.78	0.17	102,102,102,102	0
60	MG	13	1679	1/1	0.78	0.22	90,90,90,90	0
60	MG	14	3333	1/1	0.78	0.13	110,110,110,110	0
60	MG	1H	3236	1/1	0.78	0.21	92,92,92,92	0
60	MG	1G	1649	1/1	0.78	0.23	108,108,108,108	0
60	MG	1H	3263	1/1	0.78	0.21	83,83,83,83	0
60	MG	14	3343	1/1	0.78	0.16	94,94,94,94	0
60	MG	1G	1653	1/1	0.78	0.24	108,108,108,108	0
60	MG	1G	1655	1/1	0.78	0.16	114,114,114,114	0
60	MG	14	3238	1/1	0.78	0.24	101,101,101,101	0
60	MG	1H	3296	1/1	0.78	0.12	92,92,92,92	0
60	MG	1H	3092	1/1	0.78	0.17	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3028	1/1	0.78	0.17	89,89,89,89	0
60	MG	14	3201	1/1	0.78	0.17	113,113,113,113	0
60	MG	1H	3060	1/1	0.79	0.17	90,90,90,90	0
60	MG	1H	3065	1/1	0.79	0.18	66,66,66,66	0
60	MG	13	1718	1/1	0.79	0.14	127,127,127,127	0
60	MG	14	3218	1/1	0.79	0.16	74,74,74,74	0
60	MG	14	3219	1/1	0.79	0.29	102,102,102,102	0
60	MG	1G	1640	1/1	0.79	0.15	95,95,95,95	0
60	MG	1H	3261	1/1	0.79	0.30	102,102,102,102	0
60	MG	1H	3091	1/1	0.79	0.23	91,91,91,91	0
60	MG	14	3323	1/1	0.79	0.11	91,91,91,91	0
60	MG	14	3326	1/1	0.79	0.15	91,91,91,91	0
60	MG	13	1620	1/1	0.79	0.12	72,72,72,72	0
60	MG	1H	3240	1/1	0.79	0.11	75,75,75,75	0
60	MG	1H	3242	1/1	0.79	0.23	88,88,88,88	0
60	MG	1H	3269	1/1	0.79	0.42	102,102,102,102	0
60	MG	13	1645	1/1	0.79	0.30	98,98,98,98	0
60	MG	14	3341	1/1	0.79	0.26	91,91,91,91	0
60	MG	1H	3190	1/1	0.79	0.14	92,92,92,92	0
60	MG	1G	1661	1/1	0.79	0.21	104,104,104,104	0
60	MG	4L	102	1/1	0.79	0.25	108,108,108,108	0
60	MG	13	1650	1/1	0.79	0.24	96,96,96,96	0
60	MG	14	3094	1/1	0.79	0.15	96,96,96,96	0
60	MG	13	1683	1/1	0.79	0.28	81,81,81,81	0
60	MG	13	1643	1/1	0.79	0.18	82,82,82,82	0
60	MG	14	3108	1/1	0.79	0.15	66,66,66,66	0
60	MG	1H	3154	1/1	0.80	0.26	100,100,100,100	0
60	MG	13	1697	1/1	0.80	0.24	97,97,97,97	0
60	MG	14	3058	1/1	0.80	0.20	88,88,88,88	0
60	MG	14	3061	1/1	0.80	0.18	89,89,89,89	0
60	MG	1H	3158	1/1	0.80	0.21	72,72,72,72	0
60	MG	14	3068	1/1	0.80	0.22	70,70,70,70	0
60	MG	14	3260	1/1	0.80	0.22	91,91,91,91	0
60	MG	1H	3270	1/1	0.80	0.30	100,100,100,100	0
60	MG	1H	3280	1/1	0.80	0.34	78,78,78,78	0
60	MG	13	1606	1/1	0.80	0.21	131,131,131,131	0
60	MG	14	3190	1/1	0.80	0.19	81,81,81,81	0
60	MG	1G	1621	1/1	0.80	0.20	108,108,108,108	0
60	MG	1H	3199	1/1	0.80	0.20	94,94,94,94	0
60	MG	13	1654	1/1	0.80	0.14	96,96,96,96	0
60	MG	14	3208	1/1	0.80	0.21	89,89,89,89	0
60	MG	13	1681	1/1	0.80	0.19	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1G	1641	1/1	0.80	0.16	103,103,103,103	0
60	MG	1H	3084	1/1	0.80	0.19	102,102,102,102	0
60	MG	13	1669	1/1	0.80	0.18	97,97,97,97	0
60	MG	14	3102	1/1	0.80	0.24	82,82,82,82	0
60	MG	14	3220	1/1	0.80	0.12	92,92,92,92	0
60	MG	13	1685	1/1	0.80	0.21	85,85,85,85	0
60	MG	1H	3121	1/1	0.80	0.14	88,88,88,88	0
60	MG	1H	3037	1/1	0.80	0.14	87,87,87,87	0
60	MG	1H	3142	1/1	0.80	0.16	72,72,72,72	0
60	MG	1H	3260	1/1	0.80	0.19	178,178,178,178	0
60	MG	14	3130	1/1	0.80	0.15	80,80,80,80	0
60	MG	1H	3143	1/1	0.80	0.20	72,72,72,72	0
60	MG	1H	3655	1/1	0.80	0.18	107,107,107,107	0
60	MG	1H	3234	1/1	0.80	0.31	82,82,82,82	0
60	MG	1H	3147	1/1	0.80	0.21	86,86,86,86	0
60	MG	14	3093	1/1	0.81	0.15	98,98,98,98	0
60	MG	1H	3253	1/1	0.81	0.31	100,100,100,100	0
60	MG	1G	1634	1/1	0.81	0.18	106,106,106,106	0
60	MG	14	3029	1/1	0.81	0.18	85,85,85,85	0
60	MG	1H	3136	1/1	0.81	0.23	80,80,80,80	0
60	MG	14	3269	1/1	0.81	0.15	104,104,104,104	0
60	MG	13	1619	1/1	0.81	0.29	66,66,66,66	0
60	MG	14	3288	1/1	0.81	0.19	106,106,106,106	0
60	MG	1H	3106	1/1	0.81	0.19	89,89,89,89	0
60	MG	14	3295	1/1	0.81	0.16	101,101,101,101	0
60	MG	14	3210	1/1	0.81	0.40	84,84,84,84	0
60	MG	13	1632	1/1	0.81	0.22	88,88,88,88	0
60	MG	14	3122	1/1	0.81	0.20	79,79,79,79	0
60	MG	13	1689	1/1	0.81	0.16	97,97,97,97	0
60	MG	14	3060	1/1	0.81	0.28	85,85,85,85	0
60	MG	1H	3245	1/1	0.81	0.21	94,94,94,94	0
60	MG	13	1670	1/1	0.81	0.19	102,102,102,102	0
60	MG	13	1659	1/1	0.81	0.15	121,121,121,121	0
60	MG	1G	1650	1/1	0.81	0.17	94,94,94,94	0
60	MG	14	3336	1/1	0.81	0.16	104,104,104,104	0
60	MG	14	3144	1/1	0.81	0.18	72,72,72,72	0
60	MG	1H	3120	1/1	0.81	0.15	101,101,101,101	0
60	MG	14	3339	1/1	0.81	0.12	112,112,112,112	0
60	MG	88	201	1/1	0.81	0.16	84,84,84,84	0
60	MG	1H	3326	1/1	0.81	0.12	98,98,98,98	0
60	MG	1G	1659	1/1	0.81	0.17	97,97,97,97	0
60	MG	14	3161	1/1	0.81	0.24	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3080	1/1	0.81	0.15	77,77,77,77	0
60	MG	1H	3101	1/1	0.81	0.26	76,76,76,76	0
60	MG	1G	1617	1/1	0.81	0.12	98,98,98,98	0
60	MG	39	302	1/1	0.81	0.21	90,90,90,90	0
60	MG	14	3183	1/1	0.81	0.22	94,94,94,94	0
60	MG	1H	3353	1/1	0.81	0.15	89,89,89,89	0
60	MG	55	202	1/1	0.81	0.23	91,91,91,91	0
60	MG	1G	1618	1/1	0.82	0.19	97,97,97,97	0
60	MG	1H	3066	1/1	0.82	0.25	87,87,87,87	0
60	MG	1H	3323	1/1	0.82	0.08	110,110,110,110	0
60	MG	1H	3135	1/1	0.82	0.27	77,77,77,77	0
60	MG	13	1671	1/1	0.82	0.14	98,98,98,98	0
60	MG	1H	3105	1/1	0.82	0.25	80,80,80,80	0
60	MG	1H	3169	1/1	0.82	0.24	82,82,82,82	0
60	MG	1H	3206	1/1	0.82	0.17	105,105,105,105	0
60	MG	14	3279	1/1	0.82	0.19	90,90,90,90	0
60	MG	1G	1692	1/1	0.82	0.11	88,88,88,88	0
60	MG	1G	1645	1/1	0.82	0.19	105,105,105,105	0
60	MG	14	3197	1/1	0.82	0.12	85,85,85,85	0
60	MG	1H	3209	1/1	0.82	0.19	82,82,82,82	0
60	MG	1G	1750	1/1	0.82	0.11	136,136,136,136	0
60	MG	14	3308	1/1	0.82	0.16	92,92,92,92	0
60	MG	1G	1754	1/1	0.82	0.11	135,135,135,135	0
60	MG	14	3095	1/1	0.82	0.28	70,70,70,70	0
60	MG	1H	3172	1/1	0.82	0.12	74,74,74,74	0
60	MG	13	1605	1/1	0.82	0.17	95,95,95,95	0
60	MG	1H	3274	1/1	0.82	0.21	90,90,90,90	0
60	MG	1H	3217	1/1	0.82	0.10	84,84,84,84	0
60	MG	1H	3034	1/1	0.82	0.16	77,77,77,77	0
60	MG	1H	3220	1/1	0.82	0.16	97,97,97,97	0
60	MG	1G	1654	1/1	0.82	0.18	109,109,109,109	0
60	MG	14	3027	1/1	0.82	0.26	89,89,89,89	0
60	MG	14	3128	1/1	0.82	0.16	101,101,101,101	0
60	MG	13	1665	1/1	0.82	0.28	106,106,106,106	0
60	MG	1H	3148	1/1	0.82	0.13	83,83,83,83	0
60	MG	1G	1660	1/1	0.82	0.21	93,93,93,93	0
60	MG	14	3547	1/1	0.82	0.19	96,96,96,96	0
60	MG	88	202	1/1	0.82	0.12	107,107,107,107	0
60	MG	14	3243	1/1	0.82	0.24	82,82,82,82	0
60	MG	13	1707	1/1	0.82	0.14	103,103,103,103	0
60	MG	1G	1666	1/1	0.82	0.17	96,96,96,96	0
60	MG	13	1806	1/1	0.82	0.18	107,107,107,107	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1G	1613	1/1	0.82	0.14	100,100,100,100	0
60	MG	13	1716	1/1	0.82	0.13	111,111,111,111	0
60	MG	14	3155	1/1	0.82	0.23	97,97,97,97	0
60	MG	1H	3191	1/1	0.83	0.30	79,79,79,79	0
60	MG	14	3185	1/1	0.83	0.13	78,78,78,78	0
60	MG	13	1657	1/1	0.83	0.16	129,129,129,129	0
60	MG	13	1627	1/1	0.83	0.18	83,83,83,83	0
60	MG	1H	3079	1/1	0.83	0.21	87,87,87,87	0
60	MG	14	3192	1/1	0.83	0.14	100,100,100,100	0
60	MG	1H	3282	1/1	0.83	0.16	83,83,83,83	0
60	MG	14	3150	1/1	0.83	0.21	94,94,94,94	0
60	MG	13	1646	1/1	0.83	0.20	87,87,87,87	0
60	MG	14	3156	1/1	0.83	0.17	74,74,74,74	0
60	MG	13	1617	1/1	0.83	0.39	82,82,82,82	0
60	MG	14	3598	1/1	0.83	0.17	129,129,129,129	0
60	MG	14	3305	1/1	0.83	0.09	97,97,97,97	0
60	MG	1H	3255	1/1	0.83	0.12	97,97,97,97	0
60	MG	13	1680	1/1	0.83	0.30	89,89,89,89	0
60	MG	14	3180	1/1	0.83	0.08	97,97,97,97	0
60	MG	1G	1638	1/1	0.83	0.16	92,92,92,92	0
60	MG	14	3134	1/1	0.83	0.25	93,93,93,93	0
60	MG	55	201	1/1	0.83	0.10	74,74,74,74	0
60	MG	1H	3309	1/1	0.83	0.15	117,117,117,117	0
60	MG	14	3167	1/1	0.84	0.08	84,84,84,84	0
60	MG	14	3304	1/1	0.84	0.16	94,94,94,94	0
60	MG	14	3169	1/1	0.84	0.26	87,87,87,87	0
60	MG	14	3235	1/1	0.84	0.30	101,101,101,101	0
60	MG	14	3172	1/1	0.84	0.20	89,89,89,89	0
60	MG	13	1636	1/1	0.84	0.35	99,99,99,99	0
60	MG	1H	3278	1/1	0.84	0.20	86,86,86,86	0
60	MG	1H	3204	1/1	0.84	0.16	93,93,93,93	0
60	MG	1G	1624	1/1	0.84	0.15	97,97,97,97	0
60	MG	14	3330	1/1	0.84	0.09	105,105,105,105	0
60	MG	13	1653	1/1	0.84	0.14	99,99,99,99	0
60	MG	1H	3186	1/1	0.84	0.23	92,92,92,92	0
60	MG	14	3247	1/1	0.84	0.21	95,95,95,95	0
60	MG	14	3186	1/1	0.84	0.19	87,87,87,87	0
60	MG	13	1678	1/1	0.84	0.10	86,86,86,86	0
60	MG	13	1638	1/1	0.84	0.16	86,86,86,86	0
60	MG	13	1647	1/1	0.84	0.17	97,97,97,97	0
60	MG	1G	1669	1/1	0.84	0.35	90,90,90,90	0
60	MG	13	1705	1/1	0.84	0.14	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3538	1/1	0.84	0.18	101,101,101,101	0
60	MG	14	3145	1/1	0.84	0.20	92,92,92,92	0
60	MG	13	1656	1/1	0.84	0.18	110,110,110,110	0
60	MG	1H	3316	1/1	0.84	0.37	95,95,95,95	0
60	MG	1J	202	1/1	0.84	0.20	102,102,102,102	0
60	MG	1H	3140	1/1	0.84	0.11	74,74,74,74	0
60	MG	1H	3222	1/1	0.84	0.30	83,83,83,83	0
60	MG	13	1641	1/1	0.84	0.26	82,82,82,82	0
60	MG	1H	3321	1/1	0.84	0.18	90,90,90,90	0
60	MG	1G	1606	1/1	0.84	0.23	101,101,101,101	0
60	MG	14	3160	1/1	0.84	0.18	92,92,92,92	0
60	MG	13	1684	1/1	0.84	0.32	90,90,90,90	0
60	MG	1H	3031	1/1	0.84	0.20	73,73,73,73	0
60	MG	14	3170	1/1	0.85	0.21	82,82,82,82	0
60	MG	14	3228	1/1	0.85	0.33	92,92,92,92	0
60	MG	13	1616	1/1	0.85	0.17	116,116,116,116	0
60	MG	14	3125	1/1	0.85	0.49	93,93,93,93	0
60	MG	4L	101	1/1	0.85	0.20	104,104,104,104	0
60	MG	1H	3303	1/1	0.85	0.27	88,88,88,88	0
60	MG	14	3320	1/1	0.85	0.22	83,83,83,83	0
60	MG	1G	1601	1/1	0.85	0.26	98,98,98,98	0
60	MG	1H	3058	1/1	0.85	0.18	78,78,78,78	0
60	MG	14	3010	1/1	0.85	0.33	76,76,76,76	0
60	MG	1H	3313	1/1	0.85	0.11	87,87,87,87	0
60	MG	13	1666	1/1	0.85	0.31	84,84,84,84	0
60	MG	14	3024	1/1	0.85	0.23	62,62,62,62	0
60	MG	14	3335	1/1	0.85	0.15	82,82,82,82	0
60	MG	1G	1615	1/1	0.85	0.15	89,89,89,89	0
60	MG	13	1618	1/1	0.85	0.20	93,93,93,93	0
60	MG	13	1719	1/1	0.85	0.11	97,97,97,97	0
60	MG	16	207	1/1	0.85	0.14	95,95,95,95	0
60	MG	14	3252	1/1	0.85	0.22	90,90,90,90	0
60	MG	14	3096	1/1	0.85	0.27	73,73,73,73	0
60	MG	1H	3167	1/1	0.85	0.23	77,77,77,77	0
60	MG	1H	3071	1/1	0.85	0.15	68,68,68,68	0
60	MG	1H	3100	1/1	0.85	0.20	76,76,76,76	0
60	MG	1H	3322	1/1	0.85	0.19	88,88,88,88	0
60	MG	14	3263	1/1	0.85	0.16	69,69,69,69	0
60	MG	11	304	1/1	0.85	0.19	97,97,97,97	0
60	MG	14	3215	1/1	0.85	0.34	95,95,95,95	0
60	MG	14	3117	1/1	0.85	0.18	85,85,85,85	0
60	MG	13	1633	1/1	0.85	0.15	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3168	1/1	0.85	0.12	102,102,102,102	0
60	MG	14	3293	1/1	0.85	0.15	95,95,95,95	0
60	MG	13	1708	1/1	0.85	0.15	119,119,119,119	0
60	MG	14	3222	1/1	0.85	0.07	90,90,90,90	0
60	MG	14	3223	1/1	0.85	0.11	97,97,97,97	0
60	MG	14	3284	1/1	0.86	0.24	86,86,86,86	0
60	MG	1H	3257	1/1	0.86	0.14	97,97,97,97	0
60	MG	14	3056	1/1	0.86	0.24	75,75,75,75	0
60	MG	14	3138	1/1	0.86	0.10	66,66,66,66	0
60	MG	14	3139	1/1	0.86	0.17	77,77,77,77	0
60	MG	14	3213	1/1	0.86	0.28	90,90,90,90	0
60	MG	16	203	1/1	0.86	0.13	94,94,94,94	0
60	MG	14	3303	1/1	0.86	0.16	97,97,97,97	0
60	MG	16	204	1/1	0.86	0.11	85,85,85,85	0
60	MG	1H	3232	1/1	0.86	0.34	88,88,88,88	0
60	MG	1H	3144	1/1	0.86	0.28	80,80,80,80	0
60	MG	1H	3024	1/1	0.86	0.14	89,89,89,89	0
60	MG	16	210	1/1	0.86	0.10	96,96,96,96	0
60	MG	1H	3211	1/1	0.86	0.15	90,90,90,90	0
60	MG	14	3321	1/1	0.86	0.28	76,76,76,76	0
60	MG	1H	3122	1/1	0.86	0.17	73,73,73,73	0
60	MG	1H	3216	1/1	0.86	0.05	100,100,100,100	0
60	MG	21	301	1/1	0.86	0.15	68,68,68,68	0
60	MG	1G	1745	1/1	0.86	0.23	108,108,108,108	0
60	MG	14	3332	1/1	0.86	0.11	90,90,90,90	0
60	MG	1H	3108	1/1	0.86	0.21	78,78,78,78	0
60	MG	1H	3218	1/1	0.86	0.17	89,89,89,89	0
60	MG	13	1621	1/1	0.86	0.20	63,63,63,63	0
60	MG	98	201	1/1	0.86	0.22	69,69,69,69	0
60	MG	1H	3181	1/1	0.86	0.21	85,85,85,85	0
60	MG	1H	3195	1/1	0.86	0.18	86,86,86,86	0
60	MG	1G	1656	1/1	0.86	0.17	96,96,96,96	0
60	MG	14	3098	1/1	0.86	0.17	93,93,93,93	0
60	MG	1G	1657	1/1	0.86	0.15	113,113,113,113	0
60	MG	1H	3182	1/1	0.86	0.17	102,102,102,102	0
60	MG	14	3533	1/1	0.86	0.16	99,99,99,99	0
60	MG	13	1814	1/1	0.86	0.08	111,111,111,111	0
60	MG	14	3020	1/1	0.86	0.11	68,68,68,68	0
60	MG	13	1818	1/1	0.86	0.12	116,116,116,116	0
60	MG	1G	1662	1/1	0.86	0.14	118,118,118,118	0
60	MG	1J	201	1/1	0.86	0.10	117,117,117,117	0
60	MG	14	3119	1/1	0.86	0.14	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3283	1/1	0.86	0.22	99,99,99,99	0
60	MG	1H	3203	1/1	0.86	0.23	74,74,74,74	0
60	MG	1H	3070	1/1	0.86	0.23	66,66,66,66	0
60	MG	1H	3020	1/1	0.86	0.19	62,62,62,62	0
60	MG	1H	3669	1/1	0.86	0.21	104,104,104,104	0
60	MG	14	3129	1/1	0.86	0.20	82,82,82,82	0
60	MG	1G	1631	1/1	0.86	0.18	104,104,104,104	0
60	MG	14	3052	1/1	0.86	0.14	82,82,82,82	0
60	MG	1G	1636	1/1	0.87	0.17	129,129,129,129	0
60	MG	14	3011	1/1	0.87	0.15	91,91,91,91	0
60	MG	14	3216	1/1	0.87	0.28	82,82,82,82	0
60	MG	14	3092	1/1	0.87	0.25	81,81,81,81	0
60	MG	1H	3145	1/1	0.87	0.20	80,80,80,80	0
60	MG	13	1651	1/1	0.87	0.17	98,98,98,98	0
60	MG	13	1699	1/1	0.87	0.18	96,96,96,96	0
60	MG	1H	3150	1/1	0.87	0.10	70,70,70,70	0
60	MG	1H	3096	1/1	0.87	0.17	84,84,84,84	0
60	MG	13	1604	1/1	0.87	0.18	80,80,80,80	0
60	MG	1G	1679	1/1	0.87	0.07	119,119,119,119	0
60	MG	14	3163	1/1	0.87	0.19	80,80,80,80	0
60	MG	14	3104	1/1	0.87	0.10	66,66,66,66	0
60	MG	14	3105	1/1	0.87	0.23	64,64,64,64	0
60	MG	14	3106	1/1	0.87	0.18	54,54,54,54	0
60	MG	14	3239	1/1	0.87	0.11	89,89,89,89	0
60	MG	1H	3075	1/1	0.87	0.12	59,59,59,59	0
60	MG	1H	3076	1/1	0.87	0.31	70,70,70,70	0
60	MG	14	3110	1/1	0.87	0.10	81,81,81,81	0
60	MG	1G	1686	1/1	0.87	0.10	101,101,101,101	0
60	MG	14	3045	1/1	0.87	0.15	63,63,63,63	0
60	MG	1H	3514	1/1	0.87	0.13	109,109,109,109	0
60	MG	14	3053	1/1	0.87	0.21	71,71,71,71	0
60	MG	1H	3102	1/1	0.87	0.10	86,86,86,86	0
60	MG	1H	3047	1/1	0.87	0.11	63,63,63,63	0
60	MG	1H	3138	1/1	0.87	0.10	66,66,66,66	0
60	MG	1H	3013	1/1	0.87	0.12	67,67,67,67	0
60	MG	14	3189	1/1	0.87	0.21	76,76,76,76	0
60	MG	13	1630	1/1	0.87	0.10	108,108,108,108	0
60	MG	1H	3171	1/1	0.87	0.10	67,67,67,67	0
60	MG	14	3131	1/1	0.87	0.11	97,97,97,97	0
60	MG	14	3589	1/1	0.87	0.09	120,120,120,120	0
60	MG	14	3261	1/1	0.87	0.17	96,96,96,96	0
60	MG	1H	3141	1/1	0.87	0.13	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3198	1/1	0.87	0.10	85,85,85,85	0
60	MG	1H	3312	1/1	0.87	0.19	76,76,76,76	0
60	MG	1G	1622	1/1	0.87	0.12	101,101,101,101	0
60	MG	13	1715	1/1	0.87	0.15	100,100,100,100	0
60	MG	1G	1626	1/1	0.87	0.15	99,99,99,99	0
60	MG	1H	3180	1/1	0.87	0.20	76,76,76,76	0
60	MG	14	3286	1/1	0.87	0.19	79,79,79,79	0
60	MG	1H	3110	1/1	0.87	0.12	92,92,92,92	0
60	MG	13	1613	1/1	0.87	0.15	92,92,92,92	0
60	MG	1H	3327	1/1	0.88	0.19	81,81,81,81	0
60	MG	13	1637	1/1	0.88	0.13	93,93,93,93	0
60	MG	14	3200	1/1	0.88	0.17	117,117,117,117	0
60	MG	1H	3168	1/1	0.88	0.10	72,72,72,72	0
60	MG	1G	1620	1/1	0.88	0.15	105,105,105,105	0
60	MG	14	3115	1/1	0.88	0.15	102,102,102,102	0
60	MG	14	3116	1/1	0.88	0.35	75,75,75,75	0
60	MG	1H	3272	1/1	0.88	0.24	68,68,68,68	0
60	MG	14	3118	1/1	0.88	0.18	81,81,81,81	0
60	MG	1H	3061	1/1	0.88	0.21	72,72,72,72	0
60	MG	1H	3243	1/1	0.88	0.23	81,81,81,81	0
60	MG	14	3078	1/1	0.88	0.10	90,90,90,90	0
60	MG	1G	1625	1/1	0.88	0.25	86,86,86,86	0
60	MG	1G	1682	1/1	0.88	0.13	107,107,107,107	0
60	MG	1H	3640	1/1	0.88	0.09	127,127,127,127	0
60	MG	14	3340	1/1	0.88	0.29	88,88,88,88	0
60	MG	13	1649	1/1	0.88	0.20	84,84,84,84	0
60	MG	14	3178	1/1	0.88	0.29	70,70,70,70	0
60	MG	14	3273	1/1	0.88	0.13	71,71,71,71	0
60	MG	14	3275	1/1	0.88	0.16	89,89,89,89	0
60	MG	1H	3109	1/1	0.88	0.20	71,71,71,71	0
60	MG	1G	1658	1/1	0.88	0.15	118,118,118,118	0
60	MG	14	3225	1/1	0.88	0.23	92,92,92,92	0
60	MG	14	3550	1/1	0.88	0.12	114,114,114,114	0
60	MG	1H	3202	1/1	0.88	0.06	82,82,82,82	0
60	MG	13	1729	1/1	0.88	0.28	90,90,90,90	0
60	MG	1G	1694	1/1	0.88	0.16	106,106,106,106	0
60	MG	13	1628	1/1	0.88	0.24	86,86,86,86	0
60	MG	1G	1728	1/1	0.88	0.15	120,120,120,120	0
60	MG	1G	1602	1/1	0.88	0.16	82,82,82,82	0
60	MG	1G	1604	1/1	0.88	0.17	90,90,90,90	0
60	MG	29	303	1/1	0.88	0.14	100,100,100,100	0
60	MG	29	305	1/1	0.88	0.13	110,110,110,110	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	13	1713	1/1	0.88	0.15	92,92,92,92	0
60	MG	1H	3029	1/1	0.88	0.20	91,91,91,91	0
60	MG	1H	3298	1/1	0.88	0.13	82,82,82,82	0
60	MG	14	3194	1/1	0.88	0.13	89,89,89,89	0
60	MG	14	3313	1/1	0.88	0.23	81,81,81,81	0
60	MG	14	3206	1/1	0.89	0.28	80,80,80,80	0
60	MG	1H	3306	1/1	0.89	0.16	90,90,90,90	0
60	MG	1H	3308	1/1	0.89	0.13	94,94,94,94	0
60	MG	1H	3007	1/1	0.89	0.13	79,79,79,79	0
60	MG	1H	3310	1/1	0.89	0.15	84,84,84,84	0
60	MG	1H	3311	1/1	0.89	0.23	89,89,89,89	0
60	MG	1H	3085	1/1	0.89	0.15	79,79,79,79	0
60	MG	14	3214	1/1	0.89	0.15	84,84,84,84	0
60	MG	11	302	1/1	0.89	0.27	80,80,80,80	0
60	MG	1H	3087	1/1	0.89	0.21	86,86,86,86	0
60	MG	1G	1697	1/1	0.89	0.11	109,109,109,109	0
60	MG	1G	1710	1/1	0.89	0.11	106,106,106,106	0
60	MG	1H	3090	1/1	0.89	0.22	75,75,75,75	0
60	MG	14	3083	1/1	0.89	0.13	68,68,68,68	0
60	MG	1H	3009	1/1	0.89	0.15	86,86,86,86	0
60	MG	1H	3049	1/1	0.89	0.23	79,79,79,79	0
60	MG	14	3224	1/1	0.89	0.28	86,86,86,86	0
60	MG	1H	3166	1/1	0.89	0.08	99,99,99,99	0
60	MG	14	3158	1/1	0.89	0.19	80,80,80,80	0
60	MG	1H	3134	1/1	0.89	0.14	53,53,53,53	0
60	MG	1H	3266	1/1	0.89	0.16	75,75,75,75	0
60	MG	1H	3053	1/1	0.89	0.18	56,56,56,56	0
60	MG	1H	3011	1/1	0.89	0.13	86,86,86,86	0
60	MG	14	3166	1/1	0.89	0.08	92,92,92,92	0
60	MG	13	1731	1/1	0.89	0.42	95,95,95,95	0
60	MG	14	3008	1/1	0.89	0.15	96,96,96,96	0
60	MG	13	1723	1/1	0.89	0.23	80,80,80,80	0
60	MG	1G	1609	1/1	0.89	0.18	99,99,99,99	0
60	MG	1H	3174	1/1	0.89	0.12	75,75,75,75	0
60	MG	1G	1611	1/1	0.89	0.17	111,111,111,111	0
60	MG	1G	1612	1/1	0.89	0.12	131,131,131,131	0
60	MG	13	1635	1/1	0.89	0.15	81,81,81,81	0
60	MG	1H	3023	1/1	0.89	0.18	75,75,75,75	0
60	MG	1G	1665	1/1	0.89	0.14	74,74,74,74	0
60	MG	14	3543	1/1	0.89	0.20	93,93,93,93	0
60	MG	1H	3524	1/1	0.89	0.13	96,96,96,96	0
60	MG	1H	3281	1/1	0.89	0.29	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1G	1619	1/1	0.89	0.12	103,103,103,103	0
60	MG	14	3032	1/1	0.89	0.18	63,63,63,63	0
60	MG	1H	3068	1/1	0.89	0.16	73,73,73,73	0
60	MG	13	1755	1/1	0.89	0.20	105,105,105,105	0
60	MG	14	3044	1/1	0.89	0.29	80,80,80,80	0
60	MG	13	1672	1/1	0.89	0.14	83,83,83,83	0
60	MG	14	3193	1/1	0.89	0.13	100,100,100,100	0
60	MG	14	3267	1/1	0.89	0.17	89,89,89,89	0
60	MG	1H	3073	1/1	0.89	0.21	91,91,91,91	0
60	MG	13	1673	1/1	0.89	0.18	78,78,78,78	0
60	MG	13	1691	1/1	0.89	0.21	107,107,107,107	0
60	MG	14	3199	1/1	0.89	0.09	100,100,100,100	0
60	MG	1H	3035	1/1	0.89	0.15	85,85,85,85	0
60	MG	13	1820	1/1	0.89	0.22	101,101,101,101	0
60	MG	16	206	1/1	0.89	0.07	86,86,86,86	0
60	MG	1H	3124	1/1	0.90	0.08	88,88,88,88	0
60	MG	1H	3223	1/1	0.90	0.18	69,69,69,69	0
60	MG	13	1625	1/1	0.90	0.18	77,77,77,77	0
60	MG	13	1682	1/1	0.90	0.20	89,89,89,89	0
60	MG	1H	3228	1/1	0.90	0.21	82,82,82,82	0
60	MG	14	3290	1/1	0.90	0.10	103,103,103,103	0
60	MG	14	3143	1/1	0.90	0.10	78,78,78,78	0
60	MG	13	1690	1/1	0.90	0.17	86,86,86,86	0
60	MG	1H	3010	1/1	0.90	0.16	80,80,80,80	0
60	MG	1H	3036	1/1	0.90	0.12	94,94,94,94	0
60	MG	13	1626	1/1	0.90	0.14	104,104,104,104	0
60	MG	1H	3170	1/1	0.90	0.07	67,67,67,67	0
60	MG	1H	3201	1/1	0.90	0.18	85,85,85,85	0
60	MG	14	3152	1/1	0.90	0.15	104,104,104,104	0
60	MG	13	1601	1/1	0.90	0.17	71,71,71,71	0
60	MG	88	203	1/1	0.90	0.12	73,73,73,73	0
60	MG	1H	3082	1/1	0.90	0.15	96,96,96,96	0
60	MG	13	1693	1/1	0.90	0.09	86,86,86,86	0
60	MG	14	3319	1/1	0.90	0.24	78,78,78,78	0
60	MG	1H	3018	1/1	0.90	0.18	56,56,56,56	0
60	MG	1H	3208	1/1	0.90	0.18	80,80,80,80	0
60	MG	14	3322	1/1	0.90	0.12	92,92,92,92	0
60	MG	13	1648	1/1	0.90	0.14	101,101,101,101	0
60	MG	1H	3379	1/1	0.90	0.14	94,94,94,94	0
60	MG	14	3229	1/1	0.90	0.35	91,91,91,91	0
60	MG	14	3230	1/1	0.90	0.21	94,94,94,94	0
60	MG	1G	1607	1/1	0.90	0.07	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3234	1/1	0.90	0.13	85,85,85,85	0
60	MG	1H	3057	1/1	0.90	0.15	81,81,81,81	0
60	MG	1H	3022	1/1	0.90	0.16	60,60,60,60	0
60	MG	14	3022	1/1	0.90	0.17	103,103,103,103	0
60	MG	1H	3527	1/1	0.90	0.09	111,111,111,111	0
60	MG	1H	3590	1/1	0.90	0.19	88,88,88,88	0
60	MG	14	3177	1/1	0.90	0.24	74,74,74,74	0
60	MG	1H	3595	1/1	0.90	0.14	108,108,108,108	0
60	MG	14	3244	1/1	0.90	0.14	85,85,85,85	0
60	MG	14	3109	1/1	0.90	0.17	77,77,77,77	0
60	MG	13	1639	1/1	0.90	0.08	83,83,83,83	0
60	MG	14	3345	1/1	0.90	0.33	87,87,87,87	0
60	MG	14	3403	1/1	0.90	0.08	115,115,115,115	0
60	MG	1H	3601	1/1	0.90	0.16	95,95,95,95	0
60	MG	1H	3605	1/1	0.90	0.11	112,112,112,112	0
60	MG	1H	3627	1/1	0.90	0.14	105,105,105,105	0
60	MG	13	1661	1/1	0.90	0.11	78,78,78,78	0
60	MG	1H	3093	1/1	0.90	0.18	80,80,80,80	0
60	MG	14	3036	1/1	0.90	0.18	71,71,71,71	0
60	MG	14	3566	1/1	0.90	0.15	117,117,117,117	0
60	MG	14	3255	1/1	0.90	0.25	103,103,103,103	0
60	MG	14	3597	1/1	0.90	0.16	107,107,107,107	0
60	MG	14	3039	1/1	0.90	0.20	70,70,70,70	0
60	MG	1H	3292	1/1	0.90	0.08	96,96,96,96	0
60	MG	1H	3650	1/1	0.90	0.17	99,99,99,99	0
60	MG	1H	3027	1/1	0.90	0.19	66,66,66,66	0
60	MG	14	3126	1/1	0.90	0.30	82,82,82,82	0
60	MG	1H	3252	1/1	0.90	0.20	68,68,68,68	0
60	MG	14	3195	1/1	0.90	0.18	85,85,85,85	0
60	MG	14	3264	1/1	0.90	0.12	68,68,68,68	0
60	MG	1H	3188	1/1	0.90	0.09	84,84,84,84	0
60	MG	25	202	1/1	0.90	0.18	120,120,120,120	0
60	MG	1H	3028	1/1	0.90	0.12	98,98,98,98	0
60	MG	1H	3307	1/1	0.90	0.16	83,83,83,83	0
60	MG	1G	1688	1/1	0.90	0.27	102,102,102,102	0
60	MG	1H	3162	1/1	0.90	0.24	85,85,85,85	0
60	MG	M5	101	1/1	0.90	0.13	98,98,98,98	0
60	MG	13	1750	1/1	0.91	0.14	101,101,101,101	0
60	MG	14	3037	1/1	0.91	0.31	71,71,71,71	0
60	MG	13	1663	1/1	0.91	0.07	95,95,95,95	0
60	MG	13	1766	1/1	0.91	0.08	113,113,113,113	0
60	MG	1G	1674	1/1	0.91	0.12	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3043	1/1	0.91	0.18	88,88,88,88	0
60	MG	1H	3088	1/1	0.91	0.08	71,71,71,71	0
60	MG	1H	3026	1/1	0.91	0.17	74,74,74,74	0
60	MG	1G	1629	1/1	0.91	0.19	97,97,97,97	0
60	MG	1H	3233	1/1	0.91	0.10	84,84,84,84	0
60	MG	1H	3069	1/1	0.91	0.15	65,65,65,65	0
60	MG	14	3310	1/1	0.91	0.14	92,92,92,92	0
60	MG	1G	1633	1/1	0.91	0.09	100,100,100,100	0
60	MG	13	1794	1/1	0.91	0.05	137,137,137,137	0
60	MG	14	3065	1/1	0.91	0.13	72,72,72,72	0
60	MG	1H	3268	1/1	0.91	0.05	81,81,81,81	0
60	MG	13	1730	1/1	0.91	0.24	94,94,94,94	0
60	MG	14	3071	1/1	0.91	0.11	63,63,63,63	0
60	MG	14	3072	1/1	0.91	0.12	93,93,93,93	0
60	MG	14	3153	1/1	0.91	0.30	81,81,81,81	0
60	MG	1H	3179	1/1	0.91	0.07	92,92,92,92	0
60	MG	1H	3052	1/1	0.91	0.30	82,82,82,82	0
60	MG	13	1612	1/1	0.91	0.12	85,85,85,85	0
60	MG	1G	1642	1/1	0.91	0.10	100,100,100,100	0
60	MG	1G	1707	1/1	0.91	0.10	117,117,117,117	0
60	MG	1H	3324	1/1	0.91	0.09	109,109,109,109	0
60	MG	14	3237	1/1	0.91	0.17	96,96,96,96	0
60	MG	1G	1717	1/1	0.91	0.08	100,100,100,100	0
60	MG	1G	1719	1/1	0.91	0.07	118,118,118,118	0
60	MG	1H	3241	1/1	0.91	0.29	87,87,87,87	0
60	MG	1G	1738	1/1	0.91	0.08	99,99,99,99	0
60	MG	14	3087	1/1	0.91	0.15	79,79,79,79	0
60	MG	14	3342	1/1	0.91	0.11	106,106,106,106	0
60	MG	11	305	1/1	0.91	0.17	48,48,48,48	0
60	MG	1H	3056	1/1	0.91	0.12	57,57,57,57	0
60	MG	1G	1751	1/1	0.91	0.05	164,164,164,164	0
60	MG	31	301	1/1	0.91	0.09	81,81,81,81	0
60	MG	14	3415	1/1	0.91	0.09	81,81,81,81	0
60	MG	14	3521	1/1	0.91	0.07	111,111,111,111	0
60	MG	1H	3097	1/1	0.91	0.16	84,84,84,84	0
60	MG	1H	3184	1/1	0.91	0.13	92,92,92,92	0
60	MG	2L	101	1/1	0.91	0.18	84,84,84,84	0
60	MG	14	3546	1/1	0.91	0.15	83,83,83,83	0
60	MG	1G	1651	1/1	0.91	0.18	89,89,89,89	0
60	MG	1H	3155	1/1	0.91	0.11	87,87,87,87	0
60	MG	14	3005	1/1	0.91	0.14	83,83,83,83	0
60	MG	14	3554	1/1	0.91	0.12	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3078	1/1	0.91	0.14	57,57,57,57	0
60	MG	14	3570	1/1	0.91	0.10	108,108,108,108	0
60	MG	1H	3099	1/1	0.91	0.16	79,79,79,79	0
60	MG	1H	3159	1/1	0.91	0.17	77,77,77,77	0
60	MG	1H	3125	1/1	0.91	0.12	91,91,91,91	0
60	MG	14	3606	1/1	0.91	0.20	102,102,102,102	0
60	MG	1H	3591	1/1	0.91	0.06	119,119,119,119	0
60	MG	1H	3594	1/1	0.91	0.08	122,122,122,122	0
60	MG	1H	3129	1/1	0.91	0.22	79,79,79,79	0
60	MG	1H	3131	1/1	0.91	0.15	83,83,83,83	0
60	MG	29	301	1/1	0.91	0.21	55,55,55,55	0
60	MG	1H	3302	1/1	0.91	0.20	88,88,88,88	0
60	MG	1H	3604	1/1	0.91	0.10	115,115,115,115	0
60	MG	13	1727	1/1	0.91	0.16	90,90,90,90	0
60	MG	1H	3618	1/1	0.91	0.12	110,110,110,110	0
60	MG	1H	3304	1/1	0.91	0.08	79,79,79,79	0
60	MG	13	1608	1/1	0.91	0.13	78,78,78,78	0
60	MG	1H	3637	1/1	0.91	0.10	112,112,112,112	0
60	MG	1H	3225	1/1	0.91	0.09	89,89,89,89	0
60	MG	14	3204	1/1	0.91	0.12	76,76,76,76	0
60	MG	75	201	1/1	0.91	0.14	91,91,91,91	0
60	MG	1H	3644	1/1	0.91	0.17	106,106,106,106	0
60	MG	1H	3544	1/1	0.92	0.08	108,108,108,108	0
60	MG	1G	1698	1/1	0.92	0.12	101,101,101,101	0
60	MG	1H	3577	1/1	0.92	0.06	123,123,123,123	0
60	MG	1H	3133	1/1	0.92	0.14	71,71,71,71	0
60	MG	1H	3175	1/1	0.92	0.08	82,82,82,82	0
60	MG	13	1640	1/1	0.92	0.11	84,84,84,84	0
60	MG	1H	3177	1/1	0.92	0.37	82,82,82,82	0
60	MG	14	3312	1/1	0.92	0.11	99,99,99,99	0
60	MG	1H	3008	1/1	0.92	0.16	72,72,72,72	0
60	MG	1H	3598	1/1	0.92	0.07	123,123,123,123	0
60	MG	14	3318	1/1	0.92	0.10	102,102,102,102	0
60	MG	1H	3080	1/1	0.92	0.13	80,80,80,80	0
60	MG	13	1805	1/1	0.92	0.07	171,171,171,171	0
60	MG	1H	3161	1/1	0.92	0.20	71,71,71,71	0
60	MG	1G	1766	1/1	0.92	0.12	107,107,107,107	0
60	MG	1H	3609	1/1	0.92	0.20	80,80,80,80	0
60	MG	14	3082	1/1	0.92	0.10	67,67,67,67	0
60	MG	1H	3314	1/1	0.92	0.12	91,91,91,91	0
60	MG	14	3329	1/1	0.92	0.11	103,103,103,103	0
60	MG	1H	3621	1/1	0.92	0.07	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	13	1603	1/1	0.92	0.11	79,79,79,79	0
60	MG	14	3233	1/1	0.92	0.12	103,103,103,103	0
60	MG	1G	1608	1/1	0.92	0.13	106,106,106,106	0
60	MG	14	3090	1/1	0.92	0.12	64,64,64,64	0
60	MG	14	3164	1/1	0.92	0.09	78,78,78,78	0
60	MG	1K	101	1/1	0.92	0.11	91,91,91,91	0
60	MG	1H	3115	1/1	0.92	0.12	59,59,59,59	0
60	MG	1H	3639	1/1	0.92	0.08	105,105,105,105	0
60	MG	13	1615	1/1	0.92	0.15	75,75,75,75	0
60	MG	1H	3319	1/1	0.92	0.12	93,93,93,93	0
60	MG	1G	1664	1/1	0.92	0.09	101,101,101,101	0
60	MG	14	3171	1/1	0.92	0.13	91,91,91,91	0
60	MG	13	1624	1/1	0.92	0.14	103,103,103,103	0
60	MG	14	3017	1/1	0.92	0.14	73,73,73,73	0
60	MG	1H	3649	1/1	0.92	0.20	92,92,92,92	0
60	MG	13	1607	1/1	0.92	0.08	83,83,83,83	0
60	MG	14	3417	1/1	0.92	0.06	143,143,143,143	0
60	MG	14	3422	1/1	0.92	0.10	93,93,93,93	0
60	MG	14	3493	1/1	0.92	0.10	98,98,98,98	0
60	MG	14	3502	1/1	0.92	0.07	103,103,103,103	0
60	MG	1H	3287	1/1	0.92	0.15	81,81,81,81	0
60	MG	1H	3658	1/1	0.92	0.14	107,107,107,107	0
60	MG	1H	3212	1/1	0.92	0.31	78,78,78,78	0
60	MG	16	201	1/1	0.92	0.13	89,89,89,89	0
60	MG	14	3545	1/1	0.92	0.18	96,96,96,96	0
60	MG	13	1775	1/1	0.92	0.07	119,119,119,119	0
60	MG	14	3111	1/1	0.92	0.17	84,84,84,84	0
60	MG	1H	3325	1/1	0.92	0.23	87,87,87,87	0
60	MG	14	3258	1/1	0.92	0.17	76,76,76,76	0
60	MG	1H	3293	1/1	0.92	0.11	96,96,96,96	0
60	MG	1G	1628	1/1	0.92	0.13	90,90,90,90	0
60	MG	2K	107	1/1	0.92	0.09	106,106,106,106	0
60	MG	14	3577	1/1	0.92	0.13	111,111,111,111	0
60	MG	14	3578	1/1	0.92	0.12	105,105,105,105	0
60	MG	14	3585	1/1	0.92	0.11	114,114,114,114	0
60	MG	1G	1630	1/1	0.92	0.06	100,100,100,100	0
60	MG	1H	3059	1/1	0.92	0.28	77,77,77,77	0
60	MG	14	3120	1/1	0.92	0.23	70,70,70,70	0
60	MG	1H	3299	1/1	0.92	0.12	83,83,83,83	0
60	MG	14	3040	1/1	0.92	0.11	68,68,68,68	0
60	MG	14	3041	1/1	0.92	0.16	64,64,64,64	0
60	MG	1H	3300	1/1	0.92	0.13	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3437	1/1	0.92	0.06	128,128,128,128	0
60	MG	1J	208	1/1	0.92	0.05	121,121,121,121	0
60	MG	14	3049	1/1	0.92	0.12	89,89,89,89	0
60	MG	1H	3130	1/1	0.92	0.13	87,87,87,87	0
60	MG	1H	3077	1/1	0.92	0.10	51,51,51,51	0
60	MG	14	3205	1/1	0.92	0.24	85,85,85,85	0
60	MG	16	216	1/1	0.92	0.06	113,113,113,113	0
60	MG	14	3207	1/1	0.92	0.14	92,92,92,92	0
60	MG	1G	1639	1/1	0.92	0.05	142,142,142,142	0
60	MG	16	220	1/1	0.92	0.14	111,111,111,111	0
60	MG	1H	3265	1/1	0.92	0.10	63,63,63,63	0
60	MG	14	3297	1/1	0.92	0.08	86,86,86,86	0
60	MG	14	3135	1/1	0.92	0.12	81,81,81,81	0
60	MG	C5	201	1/1	0.92	0.19	92,92,92,92	0
60	MG	14	3299	1/1	0.92	0.09	94,94,94,94	0
60	MG	1H	3041	1/1	0.93	0.12	53,53,53,53	0
60	MG	14	3046	1/1	0.93	0.17	80,80,80,80	0
60	MG	14	3306	1/1	0.93	0.19	89,89,89,89	0
60	MG	1H	3146	1/1	0.93	0.21	67,67,67,67	0
60	MG	1H	3123	1/1	0.93	0.14	77,77,77,77	0
60	MG	13	1816	1/1	0.93	0.09	126,126,126,126	0
60	MG	1H	3198	1/1	0.93	0.13	92,92,92,92	0
60	MG	1H	3149	1/1	0.93	0.18	92,92,92,92	0
60	MG	14	3136	1/1	0.93	0.14	75,75,75,75	0
60	MG	13	1817	1/1	0.93	0.09	121,121,121,121	0
60	MG	1H	3634	1/1	0.93	0.09	109,109,109,109	0
60	MG	1G	1724	1/1	0.93	0.05	143,143,143,143	0
60	MG	14	3062	1/1	0.93	0.17	70,70,70,70	0
60	MG	1G	1727	1/1	0.93	0.08	125,125,125,125	0
60	MG	1H	3151	1/1	0.93	0.24	82,82,82,82	0
60	MG	14	3325	1/1	0.93	0.07	97,97,97,97	0
60	MG	14	3067	1/1	0.93	0.16	59,59,59,59	0
60	MG	1G	1730	1/1	0.93	0.08	109,109,109,109	0
60	MG	14	3328	1/1	0.93	0.07	105,105,105,105	0
60	MG	1G	1737	1/1	0.93	0.06	112,112,112,112	0
60	MG	13	1712	1/1	0.93	0.09	113,113,113,113	0
60	MG	14	3331	1/1	0.93	0.06	94,94,94,94	0
60	MG	14	3227	1/1	0.93	0.13	86,86,86,86	0
60	MG	13	1787	1/1	0.93	0.08	99,99,99,99	0
60	MG	1H	3205	1/1	0.93	0.17	78,78,78,78	0
60	MG	1H	3641	1/1	0.93	0.08	111,111,111,111	0
60	MG	1G	1753	1/1	0.93	0.05	127,127,127,127	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3301	1/1	0.93	0.10	99,99,99,99	0
60	MG	1G	1761	1/1	0.93	0.05	143,143,143,143	0
60	MG	1G	1762	1/1	0.93	0.07	123,123,123,123	0
60	MG	13	1706	1/1	0.93	0.12	87,87,87,87	0
60	MG	1H	3207	1/1	0.93	0.07	62,62,62,62	0
60	MG	1H	3132	1/1	0.93	0.08	79,79,79,79	0
60	MG	1H	3485	1/1	0.93	0.19	89,89,89,89	0
60	MG	2L	102	1/1	0.93	0.06	127,127,127,127	0
60	MG	1G	1616	1/1	0.93	0.17	87,87,87,87	0
60	MG	14	3088	1/1	0.93	0.23	60,60,60,60	0
60	MG	14	3408	1/1	0.93	0.08	107,107,107,107	0
60	MG	14	3411	1/1	0.93	0.07	81,81,81,81	0
60	MG	1H	3495	1/1	0.93	0.07	94,94,94,94	0
60	MG	1H	3667	1/1	0.93	0.12	98,98,98,98	0
60	MG	1H	3504	1/1	0.93	0.07	109,109,109,109	0
60	MG	14	3479	1/1	0.93	0.10	113,113,113,113	0
60	MG	1H	3017	1/1	0.93	0.11	53,53,53,53	0
60	MG	14	3495	1/1	0.93	0.11	110,110,110,110	0
60	MG	1H	3516	1/1	0.93	0.06	126,126,126,126	0
60	MG	14	3515	1/1	0.93	0.12	100,100,100,100	0
60	MG	14	3174	1/1	0.93	0.30	84,84,84,84	0
60	MG	14	3175	1/1	0.93	0.11	78,78,78,78	0
60	MG	14	3176	1/1	0.93	0.16	78,78,78,78	0
60	MG	14	3541	1/1	0.93	0.09	113,113,113,113	0
60	MG	1H	3517	1/1	0.93	0.07	61,61,61,61	0
60	MG	14	3253	1/1	0.93	0.14	86,86,86,86	0
60	MG	14	3097	1/1	0.93	0.11	69,69,69,69	0
60	MG	14	3179	1/1	0.93	0.12	92,92,92,92	0
60	MG	1G	1623	1/1	0.93	0.25	86,86,86,86	0
60	MG	1H	3055	1/1	0.93	0.16	55,55,55,55	0
60	MG	14	3552	1/1	0.93	0.07	132,132,132,132	0
60	MG	14	3013	1/1	0.93	0.14	64,64,64,64	0
60	MG	14	3555	1/1	0.93	0.06	120,120,120,120	0
60	MG	14	3016	1/1	0.93	0.10	67,67,67,67	0
60	MG	1H	3032	1/1	0.93	0.11	67,67,67,67	0
60	MG	14	3572	1/1	0.93	0.10	119,119,119,119	0
60	MG	14	3018	1/1	0.93	0.14	77,77,77,77	0
60	MG	1H	3532	1/1	0.93	0.08	117,117,117,117	0
60	MG	14	3187	1/1	0.93	0.10	93,93,93,93	0
60	MG	1H	3537	1/1	0.93	0.08	93,93,93,93	0
60	MG	14	3593	1/1	0.93	0.19	100,100,100,100	0
60	MG	14	3594	1/1	0.93	0.10	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	13	1710	1/1	0.93	0.07	94,94,94,94	0
60	MG	1H	3568	1/1	0.93	0.18	66,66,66,66	0
60	MG	14	3599	1/1	0.93	0.11	96,96,96,96	0
60	MG	1G	1676	1/1	0.93	0.06	91,91,91,91	0
60	MG	1H	3573	1/1	0.93	0.12	122,122,122,122	0
60	MG	1H	3004	1/1	0.93	0.13	71,71,71,71	0
60	MG	14	3276	1/1	0.93	0.17	77,77,77,77	0
60	MG	1H	3582	1/1	0.93	0.09	99,99,99,99	0
60	MG	14	3031	1/1	0.93	0.07	89,89,89,89	0
60	MG	14	3196	1/1	0.93	0.16	108,108,108,108	0
60	MG	13	1757	1/1	0.93	0.06	120,120,120,120	0
60	MG	1G	1683	1/1	0.93	0.12	101,101,101,101	0
60	MG	1G	1635	1/1	0.93	0.17	81,81,81,81	0
60	MG	11	301	1/1	0.93	0.21	62,62,62,62	0
60	MG	13	1742	1/1	0.93	0.15	103,103,103,103	0
60	MG	14	3296	1/1	0.93	0.08	93,93,93,93	0
60	MG	1H	3118	1/1	0.93	0.08	73,73,73,73	0
60	MG	1H	3119	1/1	0.93	0.06	56,56,56,56	0
60	MG	1H	3039	1/1	0.93	0.11	66,66,66,66	0
60	MG	14	3301	1/1	0.93	0.07	85,85,85,85	0
60	MG	14	3127	1/1	0.93	0.10	76,76,76,76	0
60	MG	1H	3063	1/1	0.93	0.09	51,51,51,51	0
60	MG	1H	3295	1/1	0.94	0.06	85,85,85,85	0
60	MG	14	3324	1/1	0.94	0.17	85,85,85,85	0
60	MG	1H	3030	1/1	0.94	0.14	74,74,74,74	0
60	MG	1H	3617	1/1	0.94	0.16	91,91,91,91	0
60	MG	1H	3116	1/1	0.94	0.20	74,74,74,74	0
60	MG	14	3085	1/1	0.94	0.18	90,90,90,90	0
60	MG	1H	3016	1/1	0.94	0.16	70,70,70,70	0
60	MG	1H	3378	1/1	0.94	0.06	95,95,95,95	0
60	MG	1H	3074	1/1	0.94	0.08	77,77,77,77	0
60	MG	1H	3404	1/1	0.94	0.07	63,63,63,63	0
60	MG	1H	3417	1/1	0.94	0.09	95,95,95,95	0
60	MG	1H	3422	1/1	0.94	0.11	96,96,96,96	0
60	MG	1H	3200	1/1	0.94	0.06	69,69,69,69	0
60	MG	14	3173	1/1	0.94	0.13	65,65,65,65	0
60	MG	1H	3439	1/1	0.94	0.10	96,96,96,96	0
60	MG	14	3014	1/1	0.94	0.17	73,73,73,73	0
60	MG	1H	3462	1/1	0.94	0.09	74,74,74,74	0
60	MG	1H	3645	1/1	0.94	0.15	94,94,94,94	0
60	MG	1H	3468	1/1	0.94	0.16	73,73,73,73	0
60	MG	14	3101	1/1	0.94	0.06	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3469	1/1	0.94	0.11	85,85,85,85	0
60	MG	1H	3473	1/1	0.94	0.10	95,95,95,95	0
60	MG	1H	3653	1/1	0.94	0.05	122,122,122,122	0
60	MG	14	3379	1/1	0.94	0.07	72,72,72,72	0
60	MG	14	3254	1/1	0.94	0.05	110,110,110,110	0
60	MG	14	3404	1/1	0.94	0.05	111,111,111,111	0
60	MG	1H	3482	1/1	0.94	0.07	90,90,90,90	0
60	MG	14	3026	1/1	0.94	0.17	52,52,52,52	0
60	MG	14	3413	1/1	0.94	0.08	68,68,68,68	0
60	MG	6I	101	1/1	0.94	0.07	110,110,110,110	0
60	MG	1H	3660	1/1	0.94	0.06	124,124,124,124	0
60	MG	1H	3005	1/1	0.94	0.18	64,64,64,64	0
60	MG	1H	3668	1/1	0.94	0.14	97,97,97,97	0
60	MG	1H	3500	1/1	0.94	0.07	100,100,100,100	0
60	MG	13	1695	1/1	0.94	0.11	88,88,88,88	0
60	MG	1H	3506	1/1	0.94	0.07	119,119,119,119	0
60	MG	14	3509	1/1	0.94	0.20	90,90,90,90	0
60	MG	14	3513	1/1	0.94	0.08	111,111,111,111	0
60	MG	1G	1691	1/1	0.94	0.10	101,101,101,101	0
60	MG	13	1807	1/1	0.94	0.05	110,110,110,110	0
60	MG	1H	3178	1/1	0.94	0.12	122,122,122,122	0
60	MG	13	1810	1/1	0.94	0.05	114,114,114,114	0
60	MG	1H	3038	1/1	0.94	0.34	84,84,84,84	0
60	MG	14	3272	1/1	0.94	0.16	79,79,79,79	0
60	MG	1H	3126	1/1	0.94	0.24	80,80,80,80	0
60	MG	14	3274	1/1	0.94	0.09	70,70,70,70	0
60	MG	1H	3127	1/1	0.94	0.09	57,57,57,57	0
60	MG	1H	3533	1/1	0.94	0.06	117,117,117,117	0
60	MG	14	3277	1/1	0.94	0.09	84,84,84,84	0
60	MG	1G	1709	1/1	0.94	0.06	81,81,81,81	0
60	MG	1H	3081	1/1	0.94	0.14	78,78,78,78	0
60	MG	14	3202	1/1	0.94	0.04	90,90,90,90	0
60	MG	14	3565	1/1	0.94	0.08	125,125,125,125	0
60	MG	14	3287	1/1	0.94	0.18	83,83,83,83	0
60	MG	14	3567	1/1	0.94	0.07	104,104,104,104	0
60	MG	14	3569	1/1	0.94	0.21	97,97,97,97	0
60	MG	14	3051	1/1	0.94	0.12	55,55,55,55	0
60	MG	1H	3157	1/1	0.94	0.13	68,68,68,68	0
60	MG	1H	3552	1/1	0.94	0.12	98,98,98,98	0
60	MG	13	1631	1/1	0.94	0.12	77,77,77,77	0
60	MG	1H	3571	1/1	0.94	0.07	106,106,106,106	0
60	MG	14	3057	1/1	0.94	0.12	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3591	1/1	0.94	0.05	120,120,120,120	0
60	MG	1H	3104	1/1	0.94	0.28	75,75,75,75	0
60	MG	14	3059	1/1	0.94	0.09	79,79,79,79	0
60	MG	11	303	1/1	0.94	0.22	89,89,89,89	0
60	MG	14	3300	1/1	0.94	0.09	98,98,98,98	0
60	MG	1G	1731	1/1	0.94	0.24	93,93,93,93	0
60	MG	1H	3025	1/1	0.94	0.06	68,68,68,68	0
60	MG	1H	3579	1/1	0.94	0.09	112,112,112,112	0
60	MG	1G	1741	1/1	0.94	0.15	106,106,106,106	0
60	MG	14	3066	1/1	0.94	0.11	73,73,73,73	0
60	MG	1H	3064	1/1	0.94	0.11	64,64,64,64	0
60	MG	14	3307	1/1	0.94	0.10	90,90,90,90	0
60	MG	1H	3587	1/1	0.94	0.06	79,79,79,79	0
60	MG	13	1802	1/1	0.94	0.17	103,103,103,103	0
60	MG	14	3070	1/1	0.94	0.11	57,57,57,57	0
60	MG	1H	3086	1/1	0.94	0.17	79,79,79,79	0
60	MG	1H	3046	1/1	0.94	0.07	59,59,59,59	0
60	MG	1H	3067	1/1	0.94	0.11	75,75,75,75	0
60	MG	14	3316	1/1	0.94	0.12	150,150,150,150	0
60	MG	14	3317	1/1	0.94	0.09	102,102,102,102	0
60	MG	1H	3012	1/1	0.94	0.12	90,90,90,90	0
60	MG	1H	3291	1/1	0.94	0.04	88,88,88,88	0
60	MG	13	1609	1/1	0.94	0.15	73,73,73,73	0
60	MG	2A	201	1/1	0.94	0.09	95,95,95,95	0
60	MG	1H	3002	1/1	0.94	0.17	49,49,49,49	0
60	MG	13	1611	1/1	0.95	0.04	96,96,96,96	0
60	MG	13	1823	1/1	0.95	0.05	124,124,124,124	0
60	MG	1H	3666	1/1	0.95	0.14	108,108,108,108	0
60	MG	1H	3294	1/1	0.95	0.14	73,73,73,73	0
60	MG	13	1797	1/1	0.95	0.06	113,113,113,113	0
60	MG	1H	3128	1/1	0.95	0.05	75,75,75,75	0
60	MG	13	1799	1/1	0.95	0.06	104,104,104,104	0
60	MG	14	3149	1/1	0.95	0.06	91,91,91,91	0
60	MG	1G	1729	1/1	0.95	0.08	112,112,112,112	0
60	MG	1H	3538	1/1	0.95	0.07	101,101,101,101	0
60	MG	1H	3539	1/1	0.95	0.12	97,97,97,97	0
60	MG	1G	1735	1/1	0.95	0.09	113,113,113,113	0
60	MG	1G	1736	1/1	0.95	0.05	136,136,136,136	0
60	MG	1H	3214	1/1	0.95	0.10	63,63,63,63	0
60	MG	16	205	1/1	0.95	0.12	81,81,81,81	0
60	MG	14	3159	1/1	0.95	0.13	84,84,84,84	0
60	MG	1H	3215	1/1	0.95	0.05	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3558	1/1	0.95	0.05	110,110,110,110	0
60	MG	14	3162	1/1	0.95	0.29	79,79,79,79	0
60	MG	1H	3561	1/1	0.95	0.14	88,88,88,88	0
60	MG	14	3075	1/1	0.95	0.13	65,65,65,65	0
60	MG	1H	3333	1/1	0.95	0.12	60,60,60,60	0
60	MG	1H	3342	1/1	0.95	0.09	54,54,54,54	0
60	MG	14	3346	1/1	0.95	0.26	81,81,81,81	0
60	MG	14	3370	1/1	0.95	0.07	107,107,107,107	0
60	MG	1H	3572	1/1	0.95	0.09	95,95,95,95	0
60	MG	14	3381	1/1	0.95	0.06	118,118,118,118	0
60	MG	1G	1757	1/1	0.95	0.05	134,134,134,134	0
60	MG	1H	3349	1/1	0.95	0.11	62,62,62,62	0
60	MG	16	215	1/1	0.95	0.06	101,101,101,101	0
60	MG	1H	3050	1/1	0.95	0.19	63,63,63,63	0
60	MG	14	3412	1/1	0.95	0.08	59,59,59,59	0
60	MG	16	219	1/1	0.95	0.14	104,104,104,104	0
60	MG	1H	3355	1/1	0.95	0.06	91,91,91,91	0
60	MG	14	3416	1/1	0.95	0.12	61,61,61,61	0
60	MG	1H	3580	1/1	0.95	0.08	105,105,105,105	0
60	MG	1H	3366	1/1	0.95	0.07	99,99,99,99	0
60	MG	14	3444	1/1	0.95	0.11	72,72,72,72	0
60	MG	14	3445	1/1	0.95	0.05	98,98,98,98	0
60	MG	14	3446	1/1	0.95	0.06	95,95,95,95	0
60	MG	14	3456	1/1	0.95	0.06	87,87,87,87	0
60	MG	14	3473	1/1	0.95	0.06	97,97,97,97	0
60	MG	1H	3369	1/1	0.95	0.06	88,88,88,88	0
60	MG	14	3487	1/1	0.95	0.06	123,123,123,123	0
60	MG	13	1744	1/1	0.95	0.05	116,116,116,116	0
60	MG	14	3091	1/1	0.95	0.11	84,84,84,84	0
60	MG	14	3499	1/1	0.95	0.07	87,87,87,87	0
60	MG	1H	3152	1/1	0.95	0.07	83,83,83,83	0
60	MG	1H	3592	1/1	0.95	0.18	84,84,84,84	0
60	MG	14	3266	1/1	0.95	0.14	102,102,102,102	0
60	MG	1H	3388	1/1	0.95	0.06	104,104,104,104	0
60	MG	1H	3402	1/1	0.95	0.08	77,77,77,77	0
60	MG	14	3526	1/1	0.95	0.05	97,97,97,97	0
60	MG	14	3528	1/1	0.95	0.25	85,85,85,85	0
60	MG	14	3529	1/1	0.95	0.07	97,97,97,97	0
60	MG	41	201	1/1	0.95	0.11	86,86,86,86	0
60	MG	1H	3153	1/1	0.95	0.30	81,81,81,81	0
60	MG	14	3271	1/1	0.95	0.07	79,79,79,79	0
60	MG	1H	3305	1/1	0.95	0.07	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3271	1/1	0.95	0.04	74,74,74,74	0
60	MG	13	1694	1/1	0.95	0.10	79,79,79,79	0
60	MG	13	1771	1/1	0.95	0.11	110,110,110,110	0
60	MG	P8	101	1/1	0.95	0.18	75,75,75,75	0
60	MG	Q8	401	1/1	0.95	0.17	87,87,87,87	0
60	MG	14	3278	1/1	0.95	0.13	85,85,85,85	0
60	MG	1H	3440	1/1	0.95	0.06	97,97,97,97	0
60	MG	14	3280	1/1	0.95	0.10	74,74,74,74	0
60	MG	14	3563	1/1	0.95	0.07	112,112,112,112	0
60	MG	14	3282	1/1	0.95	0.13	87,87,87,87	0
60	MG	14	3283	1/1	0.95	0.13	75,75,75,75	0
60	MG	14	3019	1/1	0.95	0.13	83,83,83,83	0
60	MG	1H	3611	1/1	0.95	0.06	120,120,120,120	0
60	MG	1H	3612	1/1	0.95	0.07	124,124,124,124	0
60	MG	1H	3616	1/1	0.95	0.10	97,97,97,97	0
60	MG	14	3573	1/1	0.95	0.13	93,93,93,93	0
60	MG	14	3576	1/1	0.95	0.16	101,101,101,101	0
60	MG	1H	3443	1/1	0.95	0.09	117,117,117,117	0
60	MG	1H	3276	1/1	0.95	0.11	64,64,64,64	0
60	MG	14	3580	1/1	0.95	0.07	103,103,103,103	0
60	MG	14	3113	1/1	0.95	0.06	64,64,64,64	0
60	MG	14	3114	1/1	0.95	0.10	85,85,85,85	0
60	MG	13	1741	1/1	0.95	0.06	104,104,104,104	0
60	MG	13	1808	1/1	0.95	0.11	104,104,104,104	0
60	MG	1H	3631	1/1	0.95	0.10	113,113,113,113	0
60	MG	1H	3471	1/1	0.95	0.13	73,73,73,73	0
60	MG	2K	101	1/1	0.95	0.11	89,89,89,89	0
60	MG	1H	3476	1/1	0.95	0.07	61,61,61,61	0
60	MG	14	3603	1/1	0.95	0.06	116,116,116,116	0
60	MG	1G	1685	1/1	0.95	0.08	121,121,121,121	0
60	MG	1H	3015	1/1	0.95	0.18	56,56,56,56	0
60	MG	14	3123	1/1	0.95	0.08	92,92,92,92	0
60	MG	13	1779	1/1	0.95	0.04	105,105,105,105	0
60	MG	13	1782	1/1	0.95	0.16	101,101,101,101	0
60	MG	1H	3642	1/1	0.95	0.15	99,99,99,99	0
60	MG	1H	3499	1/1	0.95	0.14	82,82,82,82	0
60	MG	13	1751	1/1	0.95	0.07	88,88,88,88	0
60	MG	14	3042	1/1	0.95	0.12	84,84,84,84	0
60	MG	1H	3503	1/1	0.95	0.06	91,91,91,91	0
60	MG	39	301	1/1	0.95	0.10	103,103,103,103	0
60	MG	13	1789	1/1	0.95	0.06	109,109,109,109	0
60	MG	1H	3289	1/1	0.95	0.14	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3048	1/1	0.95	0.10	79,79,79,79	0
60	MG	1G	1695	1/1	0.95	0.15	108,108,108,108	0
60	MG	1H	3651	1/1	0.95	0.06	107,107,107,107	0
60	MG	13	1793	1/1	0.95	0.14	118,118,118,118	0
60	MG	1H	3003	1/1	0.95	0.12	68,68,68,68	0
60	MG	1H	3656	1/1	0.95	0.16	79,79,79,79	0
60	MG	1G	1708	1/1	0.95	0.05	121,121,121,121	0
60	MG	13	1804	1/1	0.96	0.04	114,114,114,114	0
60	MG	14	3141	1/1	0.96	0.08	72,72,72,72	0
60	MG	1H	3409	1/1	0.96	0.06	93,93,93,93	0
60	MG	1H	3647	1/1	0.96	0.13	96,96,96,96	0
60	MG	1H	3412	1/1	0.96	0.07	61,61,61,61	0
60	MG	14	3050	1/1	0.96	0.10	68,68,68,68	0
60	MG	1H	3006	1/1	0.96	0.08	59,59,59,59	0
60	MG	1G	1702	1/1	0.96	0.04	123,123,123,123	0
60	MG	1H	3542	1/1	0.96	0.04	127,127,127,127	0
60	MG	13	1602	1/1	0.96	0.17	68,68,68,68	0
60	MG	1G	1627	1/1	0.96	0.11	117,117,117,117	0
60	MG	14	3353	1/1	0.96	0.06	83,83,83,83	0
60	MG	14	3363	1/1	0.96	0.07	79,79,79,79	0
60	MG	1H	3545	1/1	0.96	0.08	84,84,84,84	0
60	MG	1G	1716	1/1	0.96	0.07	98,98,98,98	0
60	MG	14	3154	1/1	0.96	0.09	77,77,77,77	0
60	MG	14	3385	1/1	0.96	0.08	101,101,101,101	0
60	MG	14	3398	1/1	0.96	0.12	90,90,90,90	0
60	MG	1H	3424	1/1	0.96	0.04	110,110,110,110	0
60	MG	1H	3555	1/1	0.96	0.15	93,93,93,93	0
60	MG	1G	1720	1/1	0.96	0.06	127,127,127,127	0
60	MG	1H	3427	1/1	0.96	0.05	104,104,104,104	0
60	MG	1G	1726	1/1	0.96	0.06	108,108,108,108	0
60	MG	14	3064	1/1	0.96	0.12	65,65,65,65	0
60	MG	1H	3662	1/1	0.96	0.17	93,93,93,93	0
60	MG	1H	3664	1/1	0.96	0.14	97,97,97,97	0
60	MG	1H	3042	1/1	0.96	0.10	78,78,78,78	0
60	MG	14	3419	1/1	0.96	0.04	126,126,126,126	0
60	MG	1H	3567	1/1	0.96	0.10	70,70,70,70	0
60	MG	14	3425	1/1	0.96	0.12	100,100,100,100	0
60	MG	14	3441	1/1	0.96	0.06	92,92,92,92	0
60	MG	13	1709	1/1	0.96	0.06	89,89,89,89	0
60	MG	1G	1732	1/1	0.96	0.05	100,100,100,100	0
60	MG	13	1788	1/1	0.96	0.10	92,92,92,92	0
60	MG	14	3448	1/1	0.96	0.09	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3449	1/1	0.96	0.05	73,73,73,73	0
60	MG	1H	3442	1/1	0.96	0.12	92,92,92,92	0
60	MG	14	3459	1/1	0.96	0.06	97,97,97,97	0
60	MG	14	3463	1/1	0.96	0.07	92,92,92,92	0
60	MG	14	3468	1/1	0.96	0.06	117,117,117,117	0
60	MG	14	3472	1/1	0.96	0.04	88,88,88,88	0
60	MG	1H	3226	1/1	0.96	0.06	74,74,74,74	0
60	MG	14	3475	1/1	0.96	0.06	104,104,104,104	0
60	MG	1H	3574	1/1	0.96	0.05	91,91,91,91	0
60	MG	14	3483	1/1	0.96	0.06	108,108,108,108	0
60	MG	1H	3449	1/1	0.96	0.06	58,58,58,58	0
60	MG	1G	1742	1/1	0.96	0.04	100,100,100,100	0
60	MG	1H	3452	1/1	0.96	0.07	80,80,80,80	0
60	MG	1G	1747	1/1	0.96	0.15	96,96,96,96	0
60	MG	1G	1748	1/1	0.96	0.05	123,123,123,123	0
60	MG	14	3503	1/1	0.96	0.05	101,101,101,101	0
60	MG	14	3508	1/1	0.96	0.06	99,99,99,99	0
60	MG	1H	3458	1/1	0.96	0.12	96,96,96,96	0
60	MG	14	3510	1/1	0.96	0.07	92,92,92,92	0
60	MG	14	3512	1/1	0.96	0.07	98,98,98,98	0
60	MG	1H	3581	1/1	0.96	0.08	96,96,96,96	0
60	MG	1H	3459	1/1	0.96	0.09	92,92,92,92	0
60	MG	14	3520	1/1	0.96	0.12	91,91,91,91	0
60	MG	1H	3584	1/1	0.96	0.08	94,94,94,94	0
60	MG	14	3523	1/1	0.96	0.03	140,140,140,140	0
60	MG	1G	1755	1/1	0.96	0.04	135,135,135,135	0
60	MG	1H	3586	1/1	0.96	0.05	122,122,122,122	0
60	MG	1G	1758	1/1	0.96	0.06	137,137,137,137	0
60	MG	1G	1759	1/1	0.96	0.07	106,106,106,106	0
60	MG	14	3534	1/1	0.96	0.09	110,110,110,110	0
60	MG	1H	3461	1/1	0.96	0.08	68,68,68,68	0
60	MG	14	3281	1/1	0.96	0.11	64,64,64,64	0
60	MG	14	3542	1/1	0.96	0.07	97,97,97,97	0
60	MG	13	1763	1/1	0.96	0.05	112,112,112,112	0
60	MG	1G	1765	1/1	0.96	0.05	117,117,117,117	0
60	MG	1H	3275	1/1	0.96	0.05	79,79,79,79	0
60	MG	13	1720	1/1	0.96	0.06	108,108,108,108	0
60	MG	16	217	1/1	0.96	0.11	105,105,105,105	0
60	MG	1H	3277	1/1	0.96	0.10	78,78,78,78	0
60	MG	14	3551	1/1	0.96	0.08	125,125,125,125	0
60	MG	1H	3107	1/1	0.96	0.07	77,77,77,77	0
60	MG	14	3291	1/1	0.96	0.15	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	13	1768	1/1	0.96	0.07	100,100,100,100	0
60	MG	14	3556	1/1	0.96	0.13	112,112,112,112	0
60	MG	14	3557	1/1	0.96	0.06	93,93,93,93	0
60	MG	14	3099	1/1	0.96	0.12	90,90,90,90	0
60	MG	1H	3478	1/1	0.96	0.11	87,87,87,87	0
60	MG	1H	3599	1/1	0.96	0.09	105,105,105,105	0
60	MG	14	3002	1/1	0.96	0.10	72,72,72,72	0
60	MG	14	3103	1/1	0.96	0.21	81,81,81,81	0
60	MG	1H	3600	1/1	0.96	0.04	122,122,122,122	0
60	MG	1H	3480	1/1	0.96	0.09	95,95,95,95	0
60	MG	14	3007	1/1	0.96	0.11	78,78,78,78	0
60	MG	14	3574	1/1	0.96	0.10	87,87,87,87	0
60	MG	11	306	1/1	0.96	0.05	95,95,95,95	0
60	MG	1H	3603	1/1	0.96	0.19	85,85,85,85	0
60	MG	13	1796	1/1	0.96	0.06	97,97,97,97	0
60	MG	14	3579	1/1	0.96	0.13	100,100,100,100	0
60	MG	13	1749	1/1	0.96	0.07	112,112,112,112	0
60	MG	14	3582	1/1	0.96	0.06	118,118,118,118	0
60	MG	1H	3606	1/1	0.96	0.04	112,112,112,112	0
60	MG	14	3587	1/1	0.96	0.08	113,113,113,113	0
60	MG	14	3588	1/1	0.96	0.07	124,124,124,124	0
60	MG	1H	3607	1/1	0.96	0.04	156,156,156,156	0
60	MG	1H	3491	1/1	0.96	0.09	79,79,79,79	0
60	MG	13	1660	1/1	0.96	0.07	94,94,94,94	0
60	MG	1H	3054	1/1	0.96	0.11	45,45,45,45	0
60	MG	14	3595	1/1	0.96	0.15	96,96,96,96	0
60	MG	14	3311	1/1	0.96	0.23	87,87,87,87	0
60	MG	1H	3615	1/1	0.96	0.06	103,103,103,103	0
60	MG	1H	3362	1/1	0.96	0.06	75,75,75,75	0
60	MG	14	3600	1/1	0.96	0.06	122,122,122,122	0
60	MG	1H	3033	1/1	0.96	0.07	79,79,79,79	0
60	MG	13	1819	1/1	0.96	0.11	103,103,103,103	0
60	MG	1H	3373	1/1	0.96	0.08	68,68,68,68	0
60	MG	1G	1603	1/1	0.96	0.07	95,95,95,95	0
60	MG	14	3025	1/1	0.96	0.04	89,89,89,89	0
60	MG	1G	1677	1/1	0.96	0.12	79,79,79,79	0
60	MG	1G	1678	1/1	0.96	0.04	87,87,87,87	0
60	MG	1H	3510	1/1	0.96	0.07	106,106,106,106	0
60	MG	1H	3629	1/1	0.96	0.12	103,103,103,103	0
60	MG	1H	3630	1/1	0.96	0.04	141,141,141,141	0
60	MG	13	1800	1/1	0.96	0.15	103,103,103,103	0
60	MG	1H	3633	1/1	0.96	0.17	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	13	1610	1/1	0.96	0.09	88,88,88,88	0
60	MG	1H	3382	1/1	0.96	0.07	72,72,72,72	0
60	MG	1H	3518	1/1	0.96	0.08	102,102,102,102	0
60	MG	1H	3137	1/1	0.96	0.08	82,82,82,82	0
60	MG	1H	3526	1/1	0.96	0.05	102,102,102,102	0
60	MG	1H	3391	1/1	0.96	0.15	92,92,92,92	0
60	MG	1H	3528	1/1	0.96	0.12	112,112,112,112	0
60	MG	1H	3643	1/1	0.96	0.10	111,111,111,111	0
60	MG	13	1803	1/1	0.96	0.04	143,143,143,143	0
60	MG	13	1795	1/1	0.97	0.08	108,108,108,108	0
60	MG	14	3399	1/1	0.97	0.04	133,133,133,133	0
60	MG	14	3400	1/1	0.97	0.04	109,109,109,109	0
60	MG	1H	3654	1/1	0.97	0.10	91,91,91,91	0
60	MG	13	1822	1/1	0.97	0.09	110,110,110,110	0
60	MG	14	3407	1/1	0.97	0.05	95,95,95,95	0
60	MG	1H	3445	1/1	0.97	0.07	72,72,72,72	0
60	MG	1H	3569	1/1	0.97	0.06	85,85,85,85	0
60	MG	13	1622	1/1	0.97	0.09	68,68,68,68	0
60	MG	1H	3450	1/1	0.97	0.05	94,94,94,94	0
60	MG	13	1826	1/1	0.97	0.12	98,98,98,98	0
60	MG	1H	3089	1/1	0.97	0.12	76,76,76,76	0
60	MG	1G	1733	1/1	0.97	0.04	106,106,106,106	0
60	MG	1H	3576	1/1	0.97	0.06	93,93,93,93	0
60	MG	14	3421	1/1	0.97	0.09	96,96,96,96	0
60	MG	1H	3297	1/1	0.97	0.05	89,89,89,89	0
60	MG	1H	3578	1/1	0.97	0.08	97,97,97,97	0
60	MG	14	3431	1/1	0.97	0.10	75,75,75,75	0
60	MG	14	3432	1/1	0.97	0.05	71,71,71,71	0
60	MG	14	3436	1/1	0.97	0.09	86,86,86,86	0
60	MG	1H	3330	1/1	0.97	0.08	61,61,61,61	0
60	MG	1G	1740	1/1	0.97	0.13	100,100,100,100	0
60	MG	1H	3332	1/1	0.97	0.06	67,67,67,67	0
60	MG	1H	3464	1/1	0.97	0.07	69,69,69,69	0
60	MG	14	3447	1/1	0.97	0.07	64,64,64,64	0
60	MG	1H	3467	1/1	0.97	0.06	92,92,92,92	0
60	MG	13	1827	1/1	0.97	0.08	112,112,112,112	0
60	MG	14	3451	1/1	0.97	0.07	87,87,87,87	0
60	MG	14	3452	1/1	0.97	0.04	108,108,108,108	0
60	MG	14	3455	1/1	0.97	0.05	78,78,78,78	0
60	MG	13	1754	1/1	0.97	0.08	83,83,83,83	0
60	MG	1G	1749	1/1	0.97	0.19	84,84,84,84	0
60	MG	14	3076	1/1	0.97	0.07	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3467	1/1	0.97	0.04	105,105,105,105	0
60	MG	1H	3470	1/1	0.97	0.11	98,98,98,98	0
60	MG	1H	3588	1/1	0.97	0.05	97,97,97,97	0
60	MG	1H	3589	1/1	0.97	0.15	83,83,83,83	0
60	MG	1H	3343	1/1	0.97	0.06	71,71,71,71	0
60	MG	14	3477	1/1	0.97	0.06	110,110,110,110	0
60	MG	13	1614	1/1	0.97	0.09	97,97,97,97	0
60	MG	14	3480	1/1	0.97	0.06	111,111,111,111	0
60	MG	14	3481	1/1	0.97	0.08	88,88,88,88	0
60	MG	13	1748	1/1	0.97	0.07	134,134,134,134	0
60	MG	14	3484	1/1	0.97	0.14	83,83,83,83	0
60	MG	14	3485	1/1	0.97	0.05	108,108,108,108	0
60	MG	14	3486	1/1	0.97	0.08	107,107,107,107	0
60	MG	16	214	1/1	0.97	0.07	102,102,102,102	0
60	MG	14	3489	1/1	0.97	0.04	104,104,104,104	0
60	MG	14	3490	1/1	0.97	0.12	92,92,92,92	0
60	MG	14	3492	1/1	0.97	0.05	73,73,73,73	0
60	MG	13	1780	1/1	0.97	0.04	109,109,109,109	0
60	MG	14	3494	1/1	0.97	0.09	103,103,103,103	0
60	MG	13	1758	1/1	0.97	0.05	109,109,109,109	0
60	MG	1H	3596	1/1	0.97	0.04	109,109,109,109	0
60	MG	14	3501	1/1	0.97	0.04	103,103,103,103	0
60	MG	1G	1763	1/1	0.97	0.04	123,123,123,123	0
60	MG	14	3285	1/1	0.97	0.09	81,81,81,81	0
60	MG	14	3504	1/1	0.97	0.04	89,89,89,89	0
60	MG	14	3505	1/1	0.97	0.05	98,98,98,98	0
60	MG	1G	1764	1/1	0.97	0.04	121,121,121,121	0
60	MG	14	3089	1/1	0.97	0.13	75,75,75,75	0
60	MG	13	1783	1/1	0.97	0.08	104,104,104,104	0
60	MG	14	3511	1/1	0.97	0.08	113,113,113,113	0
60	MG	14	3289	1/1	0.97	0.09	84,84,84,84	0
60	MG	13	1784	1/1	0.97	0.03	131,131,131,131	0
60	MG	13	1786	1/1	0.97	0.07	100,100,100,100	0
60	MG	14	3518	1/1	0.97	0.06	124,124,124,124	0
60	MG	14	3292	1/1	0.97	0.14	72,72,72,72	0
60	MG	52	201	1/1	0.97	0.10	125,125,125,125	0
60	MG	1H	3044	1/1	0.97	0.07	68,68,68,68	0
60	MG	14	3525	1/1	0.97	0.04	92,92,92,92	0
60	MG	1H	3072	1/1	0.97	0.09	60,60,60,60	0
60	MG	1H	3045	1/1	0.97	0.11	63,63,63,63	0
60	MG	1H	3383	1/1	0.97	0.12	77,77,77,77	0
60	MG	14	3531	1/1	0.97	0.17	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3532	1/1	0.97	0.06	80,80,80,80	0
60	MG	1H	3384	1/1	0.97	0.10	53,53,53,53	0
60	MG	1H	3019	1/1	0.97	0.09	50,50,50,50	0
60	MG	14	3535	1/1	0.97	0.05	100,100,100,100	0
60	MG	21	302	1/1	0.97	0.08	75,75,75,75	0
60	MG	14	3539	1/1	0.97	0.09	82,82,82,82	0
60	MG	14	3003	1/1	0.97	0.10	83,83,83,83	0
60	MG	14	3004	1/1	0.97	0.13	82,82,82,82	0
60	MG	13	1762	1/1	0.97	0.04	115,115,115,115	0
60	MG	14	3544	1/1	0.97	0.10	96,96,96,96	0
60	MG	1H	3512	1/1	0.97	0.18	93,93,93,93	0
60	MG	1H	3394	1/1	0.97	0.05	72,72,72,72	0
60	MG	78	201	1/1	0.97	0.17	80,80,80,80	0
60	MG	14	3548	1/1	0.97	0.05	104,104,104,104	0
60	MG	1H	3515	1/1	0.97	0.13	94,94,94,94	0
60	MG	1H	3614	1/1	0.97	0.10	96,96,96,96	0
60	MG	1H	3395	1/1	0.97	0.05	76,76,76,76	0
60	MG	88	204	1/1	0.97	0.27	83,83,83,83	0
60	MG	1H	3279	1/1	0.97	0.07	68,68,68,68	0
60	MG	1G	1675	1/1	0.97	0.03	130,130,130,130	0
60	MG	14	3015	1/1	0.97	0.04	68,68,68,68	0
60	MG	14	3314	1/1	0.97	0.13	90,90,90,90	0
60	MG	14	3558	1/1	0.97	0.14	103,103,103,103	0
60	MG	14	3560	1/1	0.97	0.08	104,104,104,104	0
60	MG	98	202	1/1	0.97	0.14	110,110,110,110	0
60	MG	14	3564	1/1	0.97	0.08	94,94,94,94	0
60	MG	I8	101	1/1	0.97	0.07	94,94,94,94	0
60	MG	13	1629	1/1	0.97	0.10	74,74,74,74	0
60	MG	1H	3521	1/1	0.97	0.08	88,88,88,88	0
60	MG	1H	3522	1/1	0.97	0.12	90,90,90,90	0
60	MG	1H	3622	1/1	0.97	0.05	111,111,111,111	0
60	MG	14	3571	1/1	0.97	0.04	108,108,108,108	0
60	MG	1H	3626	1/1	0.97	0.18	78,78,78,78	0
60	MG	13	1764	1/1	0.97	0.06	80,80,80,80	0
60	MG	1H	3411	1/1	0.97	0.06	76,76,76,76	0
60	MG	13	1790	1/1	0.97	0.13	89,89,89,89	0
60	MG	1H	3415	1/1	0.97	0.05	80,80,80,80	0
60	MG	1H	3051	1/1	0.97	0.10	71,71,71,71	0
60	MG	1H	3001	1/1	0.97	0.07	57,57,57,57	0
60	MG	1H	3534	1/1	0.97	0.05	105,105,105,105	0
60	MG	1H	3254	1/1	0.97	0.23	71,71,71,71	0
60	MG	13	1791	1/1	0.97	0.04	127,127,127,127	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3586	1/1	0.97	0.15	91,91,91,91	0
60	MG	14	3033	1/1	0.97	0.11	80,80,80,80	0
60	MG	1H	3432	1/1	0.97	0.06	109,109,109,109	0
60	MG	1G	1614	1/1	0.97	0.04	81,81,81,81	0
60	MG	1H	3541	1/1	0.97	0.06	94,94,94,94	0
60	MG	1H	3433	1/1	0.97	0.07	109,109,109,109	0
60	MG	14	3038	1/1	0.97	0.12	47,47,47,47	0
60	MG	1H	3434	1/1	0.97	0.06	117,117,117,117	0
60	MG	14	3596	1/1	0.97	0.14	95,95,95,95	0
60	MG	14	3137	1/1	0.97	0.14	69,69,69,69	0
60	MG	13	1792	1/1	0.97	0.05	102,102,102,102	0
60	MG	1H	3547	1/1	0.97	0.05	110,110,110,110	0
60	MG	1G	1706	1/1	0.97	0.12	120,120,120,120	0
60	MG	14	3601	1/1	0.97	0.10	102,102,102,102	0
60	MG	14	3602	1/1	0.97	0.04	111,111,111,111	0
60	MG	14	3043	1/1	0.97	0.33	67,67,67,67	0
60	MG	13	1726	1/1	0.97	0.10	96,96,96,96	0
60	MG	14	3607	1/1	0.97	0.14	98,98,98,98	0
60	MG	14	3242	1/1	0.97	0.10	67,67,67,67	0
60	MG	13	1767	1/1	0.97	0.06	94,94,94,94	0
60	MG	1H	3648	1/1	0.97	0.07	109,109,109,109	0
60	MG	14	3352	1/1	0.97	0.06	64,64,64,64	0
60	MG	1J	205	1/1	0.97	0.04	113,113,113,113	0
60	MG	1J	206	1/1	0.97	0.04	109,109,109,109	0
60	MG	1H	3557	1/1	0.97	0.09	104,104,104,104	0
60	MG	14	3356	1/1	0.97	0.05	106,106,106,106	0
60	MG	1G	1712	1/1	0.97	0.04	107,107,107,107	0
60	MG	14	3369	1/1	0.97	0.05	66,66,66,66	0
60	MG	29	304	1/1	0.97	0.07	71,71,71,71	0
60	MG	1H	3441	1/1	0.97	0.05	86,86,86,86	0
60	MG	14	3372	1/1	0.97	0.08	90,90,90,90	0
60	MG	14	3374	1/1	0.97	0.06	74,74,74,74	0
60	MG	14	3377	1/1	0.97	0.05	65,65,65,65	0
60	MG	1H	3560	1/1	0.97	0.05	110,110,110,110	0
60	MG	1G	1718	1/1	0.97	0.05	102,102,102,102	0
60	MG	14	3383	1/1	0.97	0.05	84,84,84,84	0
60	MG	14	3384	1/1	0.97	0.06	73,73,73,73	0
60	MG	1H	3652	1/1	0.97	0.11	95,95,95,95	0
60	MG	14	3387	1/1	0.97	0.08	70,70,70,70	0
60	MG	F5	101	1/1	0.97	0.17	92,92,92,92	0
60	MG	14	3393	1/1	0.97	0.16	74,74,74,74	0
60	MG	14	3430	1/1	0.98	0.11	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	13	1776	1/1	0.98	0.04	71,71,71,71	0
60	MG	13	1759	1/1	0.98	0.07	83,83,83,83	0
60	MG	1H	3284	1/1	0.98	0.03	93,93,93,93	0
60	MG	14	3438	1/1	0.98	0.04	96,96,96,96	0
60	MG	14	3439	1/1	0.98	0.04	74,74,74,74	0
60	MG	14	3440	1/1	0.98	0.05	89,89,89,89	0
60	MG	13	1737	1/1	0.98	0.09	90,90,90,90	0
60	MG	14	3265	1/1	0.98	0.04	81,81,81,81	0
60	MG	1H	3481	1/1	0.98	0.04	81,81,81,81	0
60	MG	1H	3392	1/1	0.98	0.06	63,63,63,63	0
60	MG	13	1811	1/1	0.98	0.04	95,95,95,95	0
60	MG	1G	1684	1/1	0.98	0.07	134,134,134,134	0
60	MG	14	3151	1/1	0.98	0.05	98,98,98,98	0
60	MG	14	3450	1/1	0.98	0.05	51,51,51,51	0
60	MG	1H	3486	1/1	0.98	0.08	71,71,71,71	0
60	MG	1H	3489	1/1	0.98	0.12	87,87,87,87	0
60	MG	14	3453	1/1	0.98	0.04	78,78,78,78	0
60	MG	14	3454	1/1	0.98	0.03	69,69,69,69	0
60	MG	13	1812	1/1	0.98	0.04	117,117,117,117	0
60	MG	1H	3593	1/1	0.98	0.03	104,104,104,104	0
60	MG	14	3458	1/1	0.98	0.04	98,98,98,98	0
60	MG	1H	3494	1/1	0.98	0.08	92,92,92,92	0
60	MG	14	3461	1/1	0.98	0.07	76,76,76,76	0
60	MG	14	3462	1/1	0.98	0.08	63,63,63,63	0
60	MG	1H	3398	1/1	0.98	0.04	55,55,55,55	0
60	MG	14	3465	1/1	0.98	0.04	84,84,84,84	0
60	MG	1H	3496	1/1	0.98	0.04	104,104,104,104	0
60	MG	1H	3497	1/1	0.98	0.06	86,86,86,86	0
60	MG	14	3469	1/1	0.98	0.08	91,91,91,91	0
60	MG	1H	3498	1/1	0.98	0.07	70,70,70,70	0
60	MG	1H	3288	1/1	0.98	0.05	84,84,84,84	0
60	MG	1H	3403	1/1	0.98	0.05	74,74,74,74	0
60	MG	14	3476	1/1	0.98	0.04	93,93,93,93	0
60	MG	1H	3501	1/1	0.98	0.03	98,98,98,98	0
60	MG	14	3478	1/1	0.98	0.09	55,55,55,55	0
60	MG	14	3047	1/1	0.98	0.18	85,85,85,85	0
60	MG	1H	3502	1/1	0.98	0.04	74,74,74,74	0
60	MG	13	1813	1/1	0.98	0.04	113,113,113,113	0
60	MG	14	3482	1/1	0.98	0.06	67,67,67,67	0
60	MG	1G	1700	1/1	0.98	0.03	78,78,78,78	0
60	MG	1H	3406	1/1	0.98	0.04	55,55,55,55	0
60	MG	1H	3062	1/1	0.98	0.07	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3509	1/1	0.98	0.04	96,96,96,96	0
60	MG	13	1781	1/1	0.98	0.08	100,100,100,100	0
60	MG	14	3488	1/1	0.98	0.05	100,100,100,100	0
60	MG	1H	3511	1/1	0.98	0.05	84,84,84,84	0
60	MG	13	1815	1/1	0.98	0.05	103,103,103,103	0
60	MG	1G	1711	1/1	0.98	0.05	95,95,95,95	0
60	MG	1G	1605	1/1	0.98	0.09	111,111,111,111	0
60	MG	1G	1714	1/1	0.98	0.05	94,94,94,94	0
60	MG	1G	1715	1/1	0.98	0.09	102,102,102,102	0
60	MG	14	3497	1/1	0.98	0.04	105,105,105,105	0
60	MG	14	3498	1/1	0.98	0.04	118,118,118,118	0
60	MG	1H	3513	1/1	0.98	0.04	93,93,93,93	0
60	MG	14	3500	1/1	0.98	0.06	114,114,114,114	0
60	MG	1H	3414	1/1	0.98	0.07	84,84,84,84	0
60	MG	13	1740	1/1	0.98	0.03	108,108,108,108	0
60	MG	1H	3235	1/1	0.98	0.06	58,58,58,58	0
60	MG	1H	3419	1/1	0.98	0.05	87,87,87,87	0
60	MG	1G	1723	1/1	0.98	0.04	125,125,125,125	0
60	MG	1H	3619	1/1	0.98	0.03	127,127,127,127	0
60	MG	1G	1725	1/1	0.98	0.04	110,110,110,110	0
60	MG	1H	3620	1/1	0.98	0.16	84,84,84,84	0
60	MG	13	1711	1/1	0.98	0.07	71,71,71,71	0
60	MG	1H	3519	1/1	0.98	0.04	88,88,88,88	0
60	MG	1H	3624	1/1	0.98	0.09	96,96,96,96	0
60	MG	1H	3625	1/1	0.98	0.12	93,93,93,93	0
60	MG	14	3517	1/1	0.98	0.10	80,80,80,80	0
60	MG	2K	106	1/1	0.98	0.08	100,100,100,100	0
60	MG	14	3519	1/1	0.98	0.04	98,98,98,98	0
60	MG	1H	3426	1/1	0.98	0.04	101,101,101,101	0
60	MG	1H	3628	1/1	0.98	0.16	75,75,75,75	0
60	MG	14	3522	1/1	0.98	0.03	108,108,108,108	0
60	MG	1G	1734	1/1	0.98	0.05	90,90,90,90	0
60	MG	1H	3523	1/1	0.98	0.05	104,104,104,104	0
60	MG	13	1798	1/1	0.98	0.04	91,91,91,91	0
60	MG	14	3527	1/1	0.98	0.06	74,74,74,74	0
60	MG	1H	3525	1/1	0.98	0.09	97,97,97,97	0
60	MG	1H	3632	1/1	0.98	0.03	119,119,119,119	0
60	MG	1G	1739	1/1	0.98	0.07	119,119,119,119	0
60	MG	1H	3428	1/1	0.98	0.08	76,76,76,76	0
60	MG	1H	3431	1/1	0.98	0.07	96,96,96,96	0
60	MG	1H	3329	1/1	0.98	0.06	74,74,74,74	0
60	MG	1G	1743	1/1	0.98	0.08	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3536	1/1	0.98	0.12	82,82,82,82	0
60	MG	14	3537	1/1	0.98	0.09	88,88,88,88	0
60	MG	1G	1744	1/1	0.98	0.05	143,143,143,143	0
60	MG	1H	3529	1/1	0.98	0.07	88,88,88,88	0
60	MG	1G	1746	1/1	0.98	0.08	96,96,96,96	0
60	MG	1H	3531	1/1	0.98	0.04	101,101,101,101	0
60	MG	4K	101	1/1	0.98	0.04	101,101,101,101	0
60	MG	13	1753	1/1	0.98	0.09	91,91,91,91	0
60	MG	1H	3117	1/1	0.98	0.06	63,63,63,63	0
60	MG	1H	3535	1/1	0.98	0.12	78,78,78,78	0
60	MG	1G	1752	1/1	0.98	0.11	147,147,147,147	0
60	MG	1H	3334	1/1	0.98	0.05	57,57,57,57	0
60	MG	1H	3335	1/1	0.98	0.04	57,57,57,57	0
60	MG	13	1703	1/1	0.98	0.08	74,74,74,74	0
60	MG	1G	1756	1/1	0.98	0.03	128,128,128,128	0
60	MG	14	3217	1/1	0.98	0.13	72,72,72,72	0
60	MG	14	3553	1/1	0.98	0.12	94,94,94,94	0
60	MG	1H	3540	1/1	0.98	0.16	77,77,77,77	0
60	MG	13	1821	1/1	0.98	0.06	102,102,102,102	0
60	MG	13	1623	1/1	0.98	0.05	91,91,91,91	0
60	MG	1H	3543	1/1	0.98	0.08	116,116,116,116	0
60	MG	1H	3350	1/1	0.98	0.06	66,66,66,66	0
60	MG	14	3559	1/1	0.98	0.04	120,120,120,120	0
60	MG	1H	3446	1/1	0.98	0.04	63,63,63,63	0
60	MG	14	3562	1/1	0.98	0.10	99,99,99,99	0
60	MG	1H	3546	1/1	0.98	0.07	103,103,103,103	0
60	MG	1H	3448	1/1	0.98	0.06	65,65,65,65	0
60	MG	1G	1644	1/1	0.98	0.06	95,95,95,95	0
60	MG	1H	3548	1/1	0.98	0.05	100,100,100,100	0
60	MG	32	302	1/1	0.98	0.03	126,126,126,126	0
60	MG	14	3568	1/1	0.98	0.04	78,78,78,78	0
60	MG	1H	3549	1/1	0.98	0.05	106,106,106,106	0
60	MG	14	3355	1/1	0.98	0.04	67,67,67,67	0
60	MG	1H	3657	1/1	0.98	0.12	105,105,105,105	0
60	MG	14	3359	1/1	0.98	0.05	79,79,79,79	0
60	MG	1H	3273	1/1	0.98	0.04	71,71,71,71	0
60	MG	14	3368	1/1	0.98	0.05	76,76,76,76	0
60	MG	14	3232	1/1	0.98	0.03	108,108,108,108	0
60	MG	1H	3659	1/1	0.98	0.07	97,97,97,97	0
60	MG	1H	3554	1/1	0.98	0.03	113,113,113,113	0
60	MG	1H	3661	1/1	0.98	0.05	97,97,97,97	0
60	MG	14	3376	1/1	0.98	0.04	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3581	1/1	0.98	0.04	124,124,124,124	0
60	MG	13	1769	1/1	0.98	0.04	81,81,81,81	0
60	MG	14	3583	1/1	0.98	0.03	116,116,116,116	0
60	MG	14	3584	1/1	0.98	0.04	108,108,108,108	0
60	MG	1H	3451	1/1	0.98	0.06	59,59,59,59	0
60	MG	14	3380	1/1	0.98	0.04	82,82,82,82	0
60	MG	1H	3665	1/1	0.98	0.11	83,83,83,83	0
60	MG	14	3382	1/1	0.98	0.04	94,94,94,94	0
60	MG	1H	3356	1/1	0.98	0.05	104,104,104,104	0
60	MG	14	3590	1/1	0.98	0.05	108,108,108,108	0
60	MG	1H	3559	1/1	0.98	0.11	91,91,91,91	0
60	MG	14	3592	1/1	0.98	0.07	106,106,106,106	0
60	MG	1H	3454	1/1	0.98	0.03	86,86,86,86	0
60	MG	14	3386	1/1	0.98	0.04	87,87,87,87	0
60	MG	1H	3457	1/1	0.98	0.03	97,97,97,97	0
60	MG	14	3388	1/1	0.98	0.05	90,90,90,90	0
60	MG	14	3389	1/1	0.98	0.09	88,88,88,88	0
60	MG	14	3392	1/1	0.98	0.04	82,82,82,82	0
60	MG	1H	3562	1/1	0.98	0.07	85,85,85,85	0
60	MG	14	3395	1/1	0.98	0.03	105,105,105,105	0
60	MG	14	3396	1/1	0.98	0.03	106,106,106,106	0
60	MG	14	3397	1/1	0.98	0.04	100,100,100,100	0
60	MG	1H	3563	1/1	0.98	0.03	105,105,105,105	0
60	MG	1H	3564	1/1	0.98	0.07	71,71,71,71	0
60	MG	1H	3565	1/1	0.98	0.05	94,94,94,94	0
60	MG	14	3401	1/1	0.98	0.04	93,93,93,93	0
60	MG	1H	3360	1/1	0.98	0.04	68,68,68,68	0
60	MG	13	1824	1/1	0.98	0.06	96,96,96,96	0
60	MG	14	3406	1/1	0.98	0.15	88,88,88,88	0
60	MG	1H	3364	1/1	0.98	0.07	80,80,80,80	0
60	MG	1H	3570	1/1	0.98	0.12	71,71,71,71	0
60	MG	1J	207	1/1	0.98	0.04	116,116,116,116	0
60	MG	14	3409	1/1	0.98	0.04	119,119,119,119	0
60	MG	14	3410	1/1	0.98	0.04	115,115,115,115	0
60	MG	1H	3247	1/1	0.98	0.06	75,75,75,75	0
60	MG	1H	3248	1/1	0.98	0.05	83,83,83,83	0
60	MG	1H	3465	1/1	0.98	0.04	87,87,87,87	0
60	MG	14	3414	1/1	0.98	0.05	69,69,69,69	0
60	MG	1H	3466	1/1	0.98	0.09	80,80,80,80	0
60	MG	16	213	1/1	0.98	0.03	84,84,84,84	0
60	MG	25	201	1/1	0.98	0.03	121,121,121,121	0
60	MG	13	1734	1/1	0.98	0.04	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3377	1/1	0.98	0.04	102,102,102,102	0
60	MG	14	3420	1/1	0.98	0.11	100,100,100,100	0
60	MG	13	1773	1/1	0.98	0.07	99,99,99,99	0
60	MG	1H	3173	1/1	0.98	0.03	74,74,74,74	0
60	MG	14	3423	1/1	0.98	0.04	87,87,87,87	0
60	MG	13	1736	1/1	0.98	0.03	87,87,87,87	0
60	MG	E5	101	1/1	0.98	0.14	95,95,95,95	0
60	MG	14	3427	1/1	0.98	0.05	60,60,60,60	0
60	MG	14	3428	1/1	0.98	0.09	96,96,96,96	0
60	MG	1H	3385	1/1	0.99	0.04	63,63,63,63	0
60	MG	1H	3386	1/1	0.99	0.04	56,56,56,56	0
60	MG	14	3460	1/1	0.99	0.05	62,62,62,62	0
60	MG	16	218	1/1	0.99	0.04	92,92,92,92	0
60	MG	13	1765	1/1	0.99	0.04	73,73,73,73	0
60	MG	1H	3575	1/1	0.99	0.03	100,100,100,100	0
60	MG	14	3464	1/1	0.99	0.03	59,59,59,59	0
60	MG	1H	3472	1/1	0.99	0.03	70,70,70,70	0
60	MG	14	3466	1/1	0.99	0.03	91,91,91,91	0
60	MG	1H	3389	1/1	0.99	0.03	79,79,79,79	0
60	MG	1H	3475	1/1	0.99	0.10	78,78,78,78	0
60	MG	1H	3390	1/1	0.99	0.03	91,91,91,91	0
60	MG	14	3470	1/1	0.99	0.04	65,65,65,65	0
60	MG	14	3471	1/1	0.99	0.03	81,81,81,81	0
60	MG	1H	3477	1/1	0.99	0.03	57,57,57,57	0
60	MG	13	1825	1/1	0.99	0.17	88,88,88,88	0
60	MG	14	3474	1/1	0.99	0.03	111,111,111,111	0
60	MG	1G	1699	1/1	0.99	0.03	95,95,95,95	0
60	MG	1H	3479	1/1	0.99	0.03	69,69,69,69	0
60	MG	1G	1701	1/1	0.99	0.03	81,81,81,81	0
60	MG	1H	3583	1/1	0.99	0.02	98,98,98,98	0
60	MG	14	3054	1/1	0.99	0.10	85,85,85,85	0
60	MG	1G	1703	1/1	0.99	0.03	100,100,100,100	0
60	MG	1G	1704	1/1	0.99	0.05	113,113,113,113	0
60	MG	1G	1705	1/1	0.99	0.07	108,108,108,108	0
60	MG	13	1738	1/1	0.99	0.05	79,79,79,79	0
60	MG	1H	3585	1/1	0.99	0.03	110,110,110,110	0
60	MG	13	1785	1/1	0.99	0.02	126,126,126,126	0
60	MG	13	1745	1/1	0.99	0.03	75,75,75,75	0
60	MG	1H	3483	1/1	0.99	0.03	61,61,61,61	0
60	MG	1H	3484	1/1	0.99	0.05	49,49,49,49	0
60	MG	1H	3396	1/1	0.99	0.04	82,82,82,82	0
60	MG	1G	1713	1/1	0.99	0.02	127,127,127,127	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3491	1/1	0.99	0.04	89,89,89,89	0
60	MG	1H	3397	1/1	0.99	0.04	68,68,68,68	0
60	MG	1H	3487	1/1	0.99	0.04	56,56,56,56	0
60	MG	1H	3488	1/1	0.99	0.03	81,81,81,81	0
60	MG	13	1746	1/1	0.99	0.03	86,86,86,86	0
60	MG	14	3496	1/1	0.99	0.04	89,89,89,89	0
60	MG	I8	102	1/1	0.99	0.09	70,70,70,70	0
60	MG	1H	3490	1/1	0.99	0.05	91,91,91,91	0
60	MG	1H	3399	1/1	0.99	0.03	75,75,75,75	0
60	MG	1G	1721	1/1	0.99	0.06	127,127,127,127	0
60	MG	1G	1722	1/1	0.99	0.11	97,97,97,97	0
60	MG	1H	3492	1/1	0.99	0.03	69,69,69,69	0
60	MG	1H	3493	1/1	0.99	0.02	98,98,98,98	0
60	MG	1H	3401	1/1	0.99	0.03	88,88,88,88	0
60	MG	1H	3336	1/1	0.99	0.03	64,64,64,64	0
60	MG	14	3506	1/1	0.99	0.02	84,84,84,84	0
60	MG	14	3507	1/1	0.99	0.05	90,90,90,90	0
60	MG	1H	3337	1/1	0.99	0.04	67,67,67,67	0
60	MG	1H	3602	1/1	0.99	0.03	105,105,105,105	0
60	MG	1H	3338	1/1	0.99	0.06	52,52,52,52	0
60	MG	1H	3405	1/1	0.99	0.02	67,67,67,67	0
60	MG	1H	3339	1/1	0.99	0.04	52,52,52,52	0
60	MG	1H	3407	1/1	0.99	0.04	78,78,78,78	0
60	MG	14	3514	1/1	0.99	0.04	104,104,104,104	0
60	MG	1H	3408	1/1	0.99	0.04	70,70,70,70	0
60	MG	14	3516	1/1	0.99	0.02	119,119,119,119	0
60	MG	1H	3608	1/1	0.99	0.04	102,102,102,102	0
60	MG	1H	3340	1/1	0.99	0.03	57,57,57,57	0
60	MG	1H	3610	1/1	0.99	0.03	107,107,107,107	0
60	MG	1H	3410	1/1	0.99	0.04	58,58,58,58	0
60	MG	1H	3341	1/1	0.99	0.04	64,64,64,64	0
60	MG	14	3347	1/1	0.99	0.07	67,67,67,67	0
60	MG	14	3348	1/1	0.99	0.03	69,69,69,69	0
60	MG	14	3524	1/1	0.99	0.03	107,107,107,107	0
60	MG	14	3349	1/1	0.99	0.03	61,61,61,61	0
60	MG	14	3350	1/1	0.99	0.03	84,84,84,84	0
60	MG	14	3351	1/1	0.99	0.04	66,66,66,66	0
60	MG	1H	3613	1/1	0.99	0.10	79,79,79,79	0
60	MG	1H	3505	1/1	0.99	0.03	96,96,96,96	0
60	MG	14	3530	1/1	0.99	0.06	81,81,81,81	0
60	MG	14	3354	1/1	0.99	0.04	107,107,107,107	0
60	MG	13	1756	1/1	0.99	0.04	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3507	1/1	0.99	0.07	70,70,70,70	0
60	MG	14	3357	1/1	0.99	0.04	61,61,61,61	0
60	MG	14	3358	1/1	0.99	0.03	72,72,72,72	0
60	MG	1H	3508	1/1	0.99	0.05	92,92,92,92	0
60	MG	14	3361	1/1	0.99	0.03	62,62,62,62	0
60	MG	14	3362	1/1	0.99	0.04	73,73,73,73	0
60	MG	1H	3413	1/1	0.99	0.06	59,59,59,59	0
60	MG	14	3540	1/1	0.99	0.05	91,91,91,91	0
60	MG	14	3364	1/1	0.99	0.03	80,80,80,80	0
60	MG	14	3365	1/1	0.99	0.03	57,57,57,57	0
60	MG	14	3367	1/1	0.99	0.04	63,63,63,63	0
60	MG	13	1809	1/1	0.99	0.07	94,94,94,94	0
60	MG	1H	3344	1/1	0.99	0.04	55,55,55,55	0
60	MG	1H	3416	1/1	0.99	0.05	98,98,98,98	0
60	MG	1H	3346	1/1	0.99	0.03	59,59,59,59	0
60	MG	14	3373	1/1	0.99	0.04	65,65,65,65	0
60	MG	1H	3623	1/1	0.99	0.13	83,83,83,83	0
60	MG	14	3375	1/1	0.99	0.04	66,66,66,66	0
60	MG	1H	3418	1/1	0.99	0.06	109,109,109,109	0
60	MG	1H	3348	1/1	0.99	0.03	60,60,60,60	0
60	MG	1H	3420	1/1	0.99	0.03	94,94,94,94	0
60	MG	1H	3421	1/1	0.99	0.03	66,66,66,66	0
60	MG	13	1770	1/1	0.99	0.06	78,78,78,78	0
60	MG	13	1739	1/1	0.99	0.03	93,93,93,93	0
60	MG	1H	3520	1/1	0.99	0.05	87,87,87,87	0
60	MG	1H	3425	1/1	0.99	0.02	78,78,78,78	0
60	MG	1H	3351	1/1	0.99	0.04	57,57,57,57	0
60	MG	1H	3352	1/1	0.99	0.05	64,64,64,64	0
60	MG	14	3561	1/1	0.99	0.06	89,89,89,89	0
60	MG	1G	1760	1/1	0.99	0.05	110,110,110,110	0
60	MG	13	1772	1/1	0.99	0.03	109,109,109,109	0
60	MG	1H	3429	1/1	0.99	0.03	80,80,80,80	0
60	MG	14	3390	1/1	0.99	0.05	106,106,106,106	0
60	MG	14	3391	1/1	0.99	0.03	76,76,76,76	0
60	MG	1H	3636	1/1	0.99	0.03	121,121,121,121	0
60	MG	1H	3430	1/1	0.99	0.04	109,109,109,109	0
60	MG	14	3394	1/1	0.99	0.03	105,105,105,105	0
60	MG	1H	3638	1/1	0.99	0.02	101,101,101,101	0
60	MG	1H	3040	1/1	0.99	0.03	66,66,66,66	0
60	MG	1G	1767	1/1	0.99	0.02	107,107,107,107	0
60	MG	13	1735	1/1	0.99	0.06	87,87,87,87	0
60	MG	1H	3358	1/1	0.99	0.03	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	14	3575	1/1	0.99	0.06	101,101,101,101	0
60	MG	1H	3530	1/1	0.99	0.05	83,83,83,83	0
60	MG	1H	3359	1/1	0.99	0.03	84,84,84,84	0
60	MG	1H	3435	1/1	0.99	0.04	103,103,103,103	0
60	MG	1H	3436	1/1	0.99	0.07	75,75,75,75	0
60	MG	14	3405	1/1	0.99	0.09	95,95,95,95	0
60	MG	13	1774	1/1	0.99	0.08	71,71,71,71	0
60	MG	1H	3438	1/1	0.99	0.04	59,59,59,59	0
60	MG	1H	3536	1/1	0.99	0.04	70,70,70,70	0
60	MG	14	3001	1/1	0.99	0.03	54,54,54,54	0
60	MG	1H	3361	1/1	0.99	0.04	63,63,63,63	0
60	MG	13	1733	1/1	0.99	0.04	69,69,69,69	0
60	MG	1H	3363	1/1	0.99	0.05	78,78,78,78	0
60	MG	13	1760	1/1	0.99	0.03	73,73,73,73	0
60	MG	1H	3365	1/1	0.99	0.05	85,85,85,85	0
60	MG	1H	3444	1/1	0.99	0.03	71,71,71,71	0
60	MG	2K	105	1/1	0.99	0.04	78,78,78,78	0
60	MG	1H	3367	1/1	0.99	0.09	70,70,70,70	0
60	MG	14	3418	1/1	0.99	0.09	91,91,91,91	0
60	MG	1H	3447	1/1	0.99	0.06	62,62,62,62	0
60	MG	1H	3368	1/1	0.99	0.04	49,49,49,49	0
60	MG	1H	3021	1/1	0.99	0.05	66,66,66,66	0
60	MG	1H	3370	1/1	0.99	0.05	59,59,59,59	0
60	MG	1H	3371	1/1	0.99	0.05	60,60,60,60	0
60	MG	14	3424	1/1	0.99	0.02	77,77,77,77	0
60	MG	1H	3550	1/1	0.99	0.14	83,83,83,83	0
60	MG	14	3426	1/1	0.99	0.03	91,91,91,91	0
60	MG	1H	3663	1/1	0.99	0.06	91,91,91,91	0
60	MG	1H	3551	1/1	0.99	0.02	110,110,110,110	0
60	MG	14	3604	1/1	0.99	0.07	86,86,86,86	0
60	MG	14	3605	1/1	0.99	0.12	97,97,97,97	0
60	MG	14	3429	1/1	0.99	0.04	90,90,90,90	0
60	MG	1H	3372	1/1	0.99	0.03	59,59,59,59	0
60	MG	1H	3553	1/1	0.99	0.03	62,62,62,62	0
60	MG	1H	3453	1/1	0.99	0.07	57,57,57,57	0
60	MG	14	3433	1/1	0.99	0.03	83,83,83,83	0
60	MG	14	3434	1/1	0.99	0.05	77,77,77,77	0
60	MG	14	3435	1/1	0.99	0.05	96,96,96,96	0
60	MG	14	3021	1/1	0.99	0.06	78,78,78,78	0
60	MG	14	3437	1/1	0.99	0.02	83,83,83,83	0
60	MG	13	1777	1/1	0.99	0.04	90,90,90,90	0
60	MG	1H	3556	1/1	0.99	0.10	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	1H	3455	1/1	0.99	0.02	61,61,61,61	0
60	MG	1H	3456	1/1	0.99	0.15	70,70,70,70	0
60	MG	14	3442	1/1	0.99	0.03	64,64,64,64	0
60	MG	14	3443	1/1	0.99	0.05	71,71,71,71	0
60	MG	1H	3374	1/1	0.99	0.06	64,64,64,64	0
60	MG	1H	3375	1/1	0.99	0.05	73,73,73,73	0
60	MG	1H	3376	1/1	0.99	0.03	59,59,59,59	0
60	MG	1H	3460	1/1	0.99	0.03	54,54,54,54	0
60	MG	13	1778	1/1	0.99	0.04	82,82,82,82	0
60	MG	13	1761	1/1	0.99	0.03	97,97,97,97	0
60	MG	45	202	1/1	0.99	0.15	97,97,97,97	0
60	MG	1H	3463	1/1	0.99	0.11	75,75,75,75	0
60	MG	1H	3566	1/1	0.99	0.12	71,71,71,71	0
60	MG	13	1714	1/1	0.99	0.03	103,103,103,103	0
60	MG	1H	3381	1/1	0.99	0.03	63,63,63,63	0
60	MG	13	1743	1/1	0.99	0.03	82,82,82,82	0
60	MG	13	1801	1/1	0.99	0.14	97,97,97,97	0
60	MG	13	1752	1/1	0.99	0.05	99,99,99,99	0
61	SF4	3E	303	8/8	0.99	0.03	84,96,103,108	0
61	SF4	32	303	8/8	0.99	0.03	102,118,124,127	0
62	ZN	5A	101	1/1	0.99	0.03	135,135,135,135	0
60	MG	1H	3331	1/1	1.00	0.03	64,64,64,64	0
60	MG	1H	3357	1/1	1.00	0.09	78,78,78,78	0
60	MG	14	3360	1/1	1.00	0.03	65,65,65,65	0
60	MG	1H	3347	1/1	1.00	0.06	60,60,60,60	0
60	MG	1H	3400	1/1	1.00	0.03	83,83,83,83	0
60	MG	1H	3354	1/1	1.00	0.04	66,66,66,66	0
60	MG	14	3457	1/1	1.00	0.02	92,92,92,92	0
60	MG	14	3378	1/1	1.00	0.10	59,59,59,59	0
60	MG	1H	3393	1/1	1.00	0.05	56,56,56,56	0
60	MG	1H	3380	1/1	1.00	0.02	63,63,63,63	0
60	MG	14	3366	1/1	1.00	0.01	55,55,55,55	0
60	MG	1H	3387	1/1	1.00	0.02	52,52,52,52	0
60	MG	1H	3423	1/1	1.00	0.02	74,74,74,74	0
60	MG	1H	3474	1/1	1.00	0.05	59,59,59,59	0
60	MG	1H	3345	1/1	1.00	0.03	52,52,52,52	0
60	MG	14	3371	1/1	1.00	0.03	75,75,75,75	0
62	ZN	5I	101	1/1	1.00	0.03	98,98,98,98	0
60	MG	14	3402	1/1	1.00	0.01	67,67,67,67	0

6.5 Other polymers (i)

There are no such residues in this entry.