Full wwPDB X-ray Structure Validation Report (i)

Mar 20, 2026 – 02:28 AM UTC

PDB ID	:	4WZO / pdb_00004wzo
Title	:	Complex of 70S ribosome with tRNA-fMet and mRNA
Authors	:	Rozov, A.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on	:	2014-11-20
Resolution	:	3.30 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 (i) 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 (i)) were used in the production of this report:

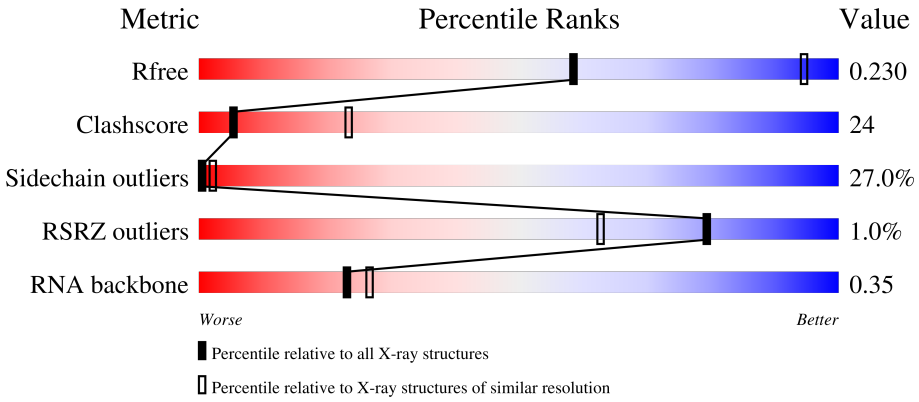
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (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 3.30 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	1169 (3.32-3.28)
Clashscore	190562	1209 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)
RNA backbone	3983	1048 (3.60-3.00)

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	29% 50% 19% ·
1	1G	1522	27% 53% 18% ·
2	12	256	2% 31% 45% 15% · 7%
2	1E	256	37% 38% 16% · 7%
3	22	239	% 34% 38% 15% 14%

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Mol	Chain	Length	Quality of chain
3	2E	239	46% 32% 8% 14%
4	32	209	41% 44% 14%
4	3E	209	39% 50% 10%
5	42	162	2% 28% 46% 19% 7%
5	4E	162	2% 36% 40% 17% 7%
6	52	101	50% 40% 10%
6	5E	101	41% 45% 13%
7	62	156	42% 42% 10% 6%
7	6E	156	2% 45% 47% 6%
8	72	138	2% 39% 49% 12%
8	7E	138	2% 37% 47% 16%
9	82	128	5% 38% 49% 11%
9	8E	128	2% 35% 48% 16%
10	1A	105	8% 27% 29% 7% 37%
10	1I	105	36% 38% 20% 6%
11	2A	129	2% 38% 43% 8% 10%
11	2I	129	6% 40% 43% 10% 8%
12	3A	132	2% 39% 38% 14% 8%
12	3I	132	42% 35% 12% 8%
13	4A	126	5% 37% 38% 17% 7%
13	4I	126	4% 33% 42% 15% 7%
14	5A	61	5% 30% 44% 10% 15%
14	5I	61	36% 51% 11%
15	6A	89	43% 44% 12%
15	6I	89	46% 42% 10%

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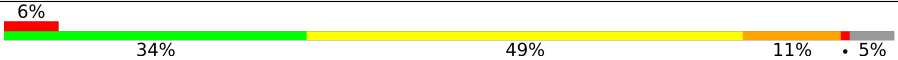
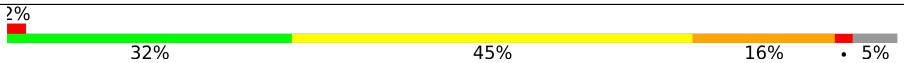
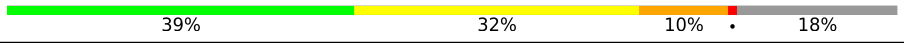
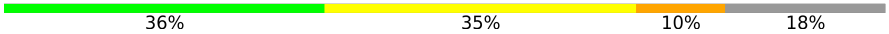
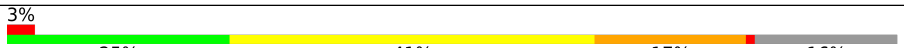
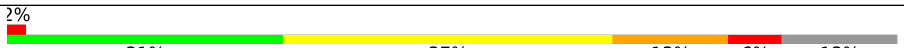
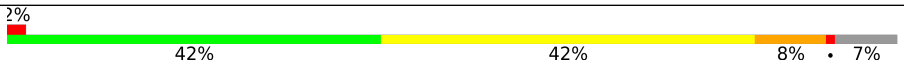
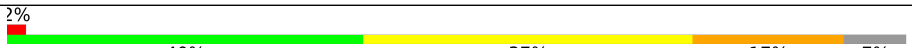
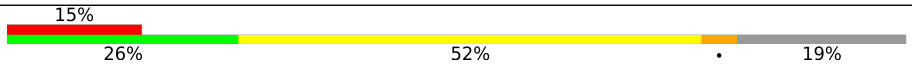
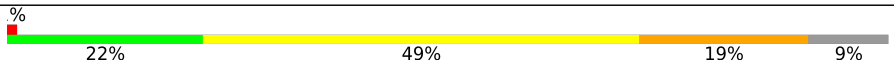
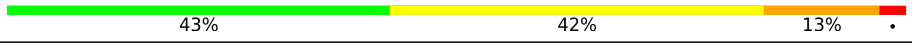
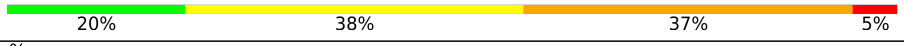
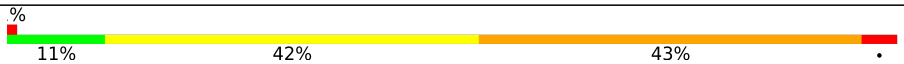
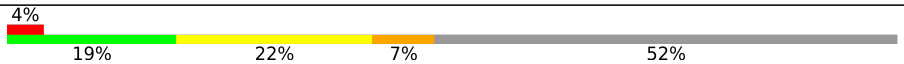
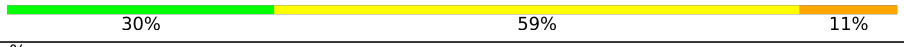
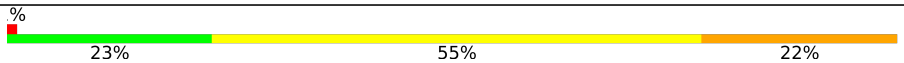
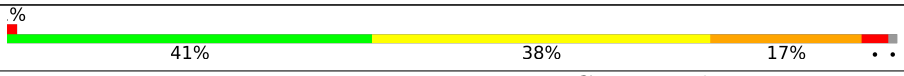
Mol	Chain	Length	Quality of chain
16	7A	88	
16	7I	88	
17	8A	105	
17	8I	105	
18	9A	88	
18	9I	88	
19	AA	93	
19	AI	93	
20	BA	106	
20	BI	106	
21	1B	27	
21	1F	27	
22	1K	77	
23	2K	77	
24	3K	76	
24	3L	76	
25	4K	27	
25	4L	27	
26	14	2917	
26	1H	2917	
27	16	122	
27	1J	122	
28	71	229	
29	11	276	
29	19	276	

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Mol	Chain	Length	Quality of chain
30	21	206	2% 37% 40% 20%
30	29	206	% 33% 48% 16%
31	31	210	35% 44% 16%
31	39	210	30% 49% 15%
32	41	182	3% 30% 51% 18%
32	49	182	3% 27% 54% 18%
33	51	180	% 38% 41% 16%
33	59	180	7% 27% 47% 16% 6%
34	61	148	36% 46% 14%
34	69	148	3% 38% 42% 17%
35	15	140	% 44% 42% 11%
35	58	140	35% 43% 18%
36	25	122	37% 43% 19%
36	68	122	% 43% 44% 11%
37	35	150	5% 28% 41% 22% 7%
37	78	150	% 33% 39% 25%
38	45	141	4% 36% 44% 16%
38	88	141	% 39% 37% 18%
39	55	118	2% 25% 58% 17%
39	98	118	28% 54% 17%
40	65	112	3% 29% 55% 14%
40	A8	112	30% 44% 22%
41	75	146	% 30% 46% 17% 6%
41	B8	146	% 37% 37% 17% 6%
42	85	118	% 41% 45% 12%

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Mol	Chain	Length	Quality of chain
42	C8	118	2% 38% 48% 13%
43	95	101	33% 39% 25%
43	D8	101	36% 49% 14%
44	A5	113	41% 43% 13%
44	E8	113	42% 40% 17%
45	B5	96	3% 41% 36% 18%
45	F8	96	33% 46% 16%
46	C5	110	4% 28% 42% 23% 5%
46	G8	110	2% 25% 45% 21% 5%
47	D5	206	% 15% 36% 14% 33%
47	H8	206	21% 30% 12% 34%
48	E5	85	% 26% 53% 11% 9%
48	I8	85	2% 38% 36% 20% 6%
49	F5	98	% 31% 49% 16%
49	J8	98	% 33% 52% 14%
50	G5	72	33% 42% 17% 8%
50	K8	72	15% 51% 24% 7%
51	H5	60	50% 35% 13%
51	L8	60	37% 33% 23% 5%
52	I5	71	15% 54% 17% 11%
52	M8	71	% 28% 42% 20% 7%
53	J5	60	40% 40% 12% 7%
53	N8	60	47% 25% 13% 5% 10%
54	L5	49	2% 35% 49% 10% 6%
54	P8	49	47% 39% 10%

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Mol	Chain	Length	Quality of chain
55	M5	65	3% 31% 38% 17% 6% 8%
55	Q8	65	8% 12% 28% 42% 11% 8%
56	2L	77	31% 47% 18%

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
57	MG	1G	1641	-	-	-	X
57	MG	1H	3191	-	-	-	X
57	MG	1J	201	-	-	-	X

2 Entry composition

There are 59 unique types of molecules in this entry. The entry contains 295920 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	1497	Total	C	N	O	P	0	0	0
			32185	14324	5968	10396	1497			
1	1G	1497	Total	C	N	O	P	0	0	0
			32182	14324	5968	10394	1496			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	1E	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	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	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	3E	208	Total	C	N	O	S	0	0	0
			1702	1066	339	290	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	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	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	155	Total	C	N	O	S	0	0	0
			1256	781	252	217	6			
7	62	147	Total	C	N	O	S	0	0	0
			1194	744	237	207	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	127	Total	C	N	O	0	0	0
			1009	639	197	173			
9	82	127	Total	C	N	O	0	0	0
			1009	639	197	173			

- 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	66	Total	C	N	O	S	0	0	0
			522	327	99	95	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	2I	119	Total	C	N	O	S	0	0	0
			884	549	168	164	3			
11	2A	116	Total	C	N	O	S	0	0	0
			864	537	164	160	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	122	Total	C	N	O	S	0	0	0
			956	603	193	159	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	4I	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			
13	4A	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	5I	60	Total	C	N	O	S	0	0	0
			491	312	104	71	4			
14	5A	52	Total	C	N	O	S	0	0	0
			418	262	90	62	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	6I	88	Total	C	N	O	S	0	0	0
			733	459	147	125	2			
15	6A	88	Total	C	N	O	S	0	0	0
			733	459	147	125	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	84	Total	C	N	O	S	0	0	0
			705	446	140	118	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	72	Total	C	N	O	0	0	0
			590	376	117	97			
18	9A	72	Total	C	N	O	0	0	0
			590	376	117	97			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AI	81	Total	C	N	O	S	0	0	0
			647	413	119	113	2			
19	AA	78	Total	C	N	O	S	0	0	0
			624	398	115	109	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	BI	99	Total	C	N	O	S	0	0	0
			762	470	162	128	2			
20	BA	99	Total	C	N	O	S	0	0	0
			762	470	162	128	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	1F	25	Total 217	C 134	N 52	O 31	0	0	0
21	1B	22	Total 188	C 116	N 44	O 28	0	0	0

- Molecule 22 is a RNA chain called tRNA-fMet.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	1K	70	Total 1497	C 669	N 274	O 485	P 69	0	0	0

- Molecule 23 is a RNA chain called tRNA-fMet.

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

- Molecule 24 is a RNA chain called tRNA-Phe.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
24	3K	76	Total 1627	C 730	N 290	O 530	P 75	S 2	0	0	0
24	3L	76	Total 1627	C 730	N 290	O 530	P 75	S 2	0	0	0

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	4K	13	Total 285	C 129	N 62	O 81	P 13	0	0	0
25	4L	9	Total 197	C 89	N 42	O 57	P 9	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	1H	2902	Total 62497	C 27816	N 11684	O 20095	P 2902	0	0	0
26	14	2877	Total 61968	C 27579	N 11594	O 19918	P 2877	0	0	0

- 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	93	Total	C	N	O	0	0	0
			737	465	139	133			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	11	272	Total	C	N	O	S	0	0	0
			2115	1335	420	357	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	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			
30	29	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	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	181	Total	C	N	O	S	0	0	0
			1473	942	268	259	4			
32	49	181	Total	C	N	O	S	0	0	0
			1473	942	268	259	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	51	174	Total	C	N	O	S	0	0	0
			1336	848	251	236	1			
33	59	170	Total	C	N	O	S	0	0	0
			1307	829	245	232	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	61	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			
34	69	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	58	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			
35	15	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	78	150	Total	C	N	O	S	0	0	0
			1144	712	232	197	3			
37	35	147	Total	C	N	O	S	0	0	0
			1122	698	229	192	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	88	137	Total	C	N	O	S	0	0	0
			1077	688	206	177	6			
38	45	141	Total	C	N	O	S	0	0	0
			1121	715	212	187	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	98	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			
39	55	117	Total	C	N	O		0	0	0
			959	599	202	158				

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	B8	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			
41	75	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	C8	117	Total	C	N	O	S	0	0	0
			963	610	202	150	1			
42	85	117	Total	C	N	O	S	0	0	0
			963	610	202	150	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	D8	101	Total	C	N	O	S	0	0	0
			778	501	142	134	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	95	101	Total	C	N	O	S	0	0	0
			778	501	142	134	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	E8	113	Total	C	N	O	S	0	0	0
			899	566	177	154	2			
44	A5	111	Total	C	N	O	S	0	0	0
			886	558	174	152	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	F8	94	Total	C	N	O	S	0	0	0
			742	482	134	125	1			
45	B5	92	Total	C	N	O		0	0	0
			725	471	131	123				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	G8	104	Total	C	N	O	S	0	0	0
			791	510	149	127	5			
46	C5	104	Total	C	N	O	S	0	0	0
			794	510	152	127	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	H8	135	Total	C	N	O	S	0	0	0
			1110	714	202	192	2			
47	D5	137	Total	C	N	O	S	0	0	0
			1126	725	202	197	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	I8	80	Total	C	N	O	S	0	0	0
			626	388	132	105	1			
48	E5	77	Total	C	N	O	S	0	0	0
			612	379	129	103	1			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
I8	6	ALA	GLY	conflict	UNP P60493
I8	8	ALA	GLY	conflict	UNP P60493
E5	6	ALA	GLY	conflict	UNP P60493
E5	8	ALA	GLY	conflict	UNP P60493

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	J8	97	Total	C	N	O	S	0	0	0
			762	481	150	130	1			
49	F5	94	Total	C	N	O	S	0	0	0
			737	463	146	127	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	K8	67	Total	C	N	O	S	0	0	0
			563	349	114	99	1			
50	G5	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	L8	57	Total	C	N	O	0	0	0
			452	288	88	76			
51	H5	59	Total	C	N	O	0	0	0
			468	298	90	80			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M8	66	Total	C	N	O	S	0	0	0
			533	335	96	97	5			
52	I5	63	Total	C	N	O	S	0	0	0
			515	326	93	91	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	N8	54	Total	C	N	O	S	0	0	0
			422	264	85	68	5			
53	J5	56	Total	C	N	O	S	0	0	0
			434	272	87	70	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	P8	47	Total	C	N	O	S	0	0	0
			409	251	102	54	2			
54	L5	46	Total	C	N	O	S	0	0	0
			398	245	98	53	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	Q8	60	Total	C	N	O	S	0	0	0
			480	306	98	74	2			
55	M5	60	Total	C	N	O	S	0	0	0
			477	303	98	74	2			

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

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
56	2L	77	Total	C	N	O	P	S	0	0	0
			1645	734	298	535	77	1			

- Molecule 57 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	13	99	Total	Mg	0	0
			99	99		
57	3E	1	Total	Mg	0	0
			1	1		
57	4E	1	Total	Mg	0	0
			1	1		
57	4I	1	Total	Mg	0	0
			1	1		
57	2K	2	Total	Mg	0	0
			2	2		
57	1H	444	Total	Mg	0	0
			444	444		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	16	11	Total Mg 11 11	0	0
57	11	3	Total Mg 3 3	0	0
57	41	2	Total Mg 2 2	0	0
57	68	2	Total Mg 2 2	0	0
57	78	2	Total Mg 2 2	0	0
57	88	1	Total Mg 1 1	0	0
57	98	1	Total Mg 1 1	0	0
57	I8	2	Total Mg 2 2	0	0
57	J8	2	Total Mg 2 2	0	0
57	L8	1	Total Mg 1 1	0	0
57	P8	1	Total Mg 1 1	0	0
57	1G	72	Total Mg 72 72	0	0
57	2L	2	Total Mg 2 2	0	0
57	3L	2	Total Mg 2 2	0	0
57	14	327	Total Mg 327 327	0	0
57	1J	3	Total Mg 3 3	0	0
57	29	2	Total Mg 2 2	0	0
57	25	1	Total Mg 1 1	0	0
57	35	1	Total Mg 1 1	0	0
57	45	1	Total Mg 1 1	0	0
57	55	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	M5	1	Total Mg 1 1	0	0

- Molecule 58 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	3E	1	Total Zn 1 1	0	0
58	5I	1	Total Zn 1 1	0	0
58	G8	1	Total Zn 1 1	0	0
58	32	1	Total Zn 1 1	0	0
58	5A	1	Total Zn 1 1	0	0
58	C5	1	Total Zn 1 1	0	0

- Molecule 59 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	13	144	Total O 144 144	0	0
59	3E	2	Total O 2 2	0	0
59	1I	1	Total O 1 1	0	0
59	3I	2	Total O 2 2	0	0
59	5I	2	Total O 2 2	0	0
59	2K	6	Total O 6 6	0	0
59	4K	2	Total O 2 2	0	0
59	1H	933	Total O 933 933	0	0
59	16	22	Total O 22 22	0	0
59	11	11	Total O 11 11	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	21	3	Total O 3 3	0	0
59	31	9	Total O 9 9	0	0
59	78	6	Total O 6 6	0	0
59	D8	1	Total O 1 1	0	0
59	F8	2	Total O 2 2	0	0
59	G8	2	Total O 2 2	0	0
59	I8	5	Total O 5 5	0	0
59	J8	1	Total O 1 1	0	0
59	L8	1	Total O 1 1	0	0
59	P8	2	Total O 2 2	0	0
59	Q8	1	Total O 1 1	0	0
59	1G	48	Total O 48 48	0	0
59	14	592	Total O 592 592	0	0
59	19	8	Total O 8 8	0	0
59	29	5	Total O 5 5	0	0
59	39	4	Total O 4 4	0	0
59	25	6	Total O 6 6	0	0
59	35	2	Total O 2 2	0	0
59	55	3	Total O 3 3	0	0
59	75	1	Total O 1 1	0	0
59	A5	1	Total O 1 1	0	0

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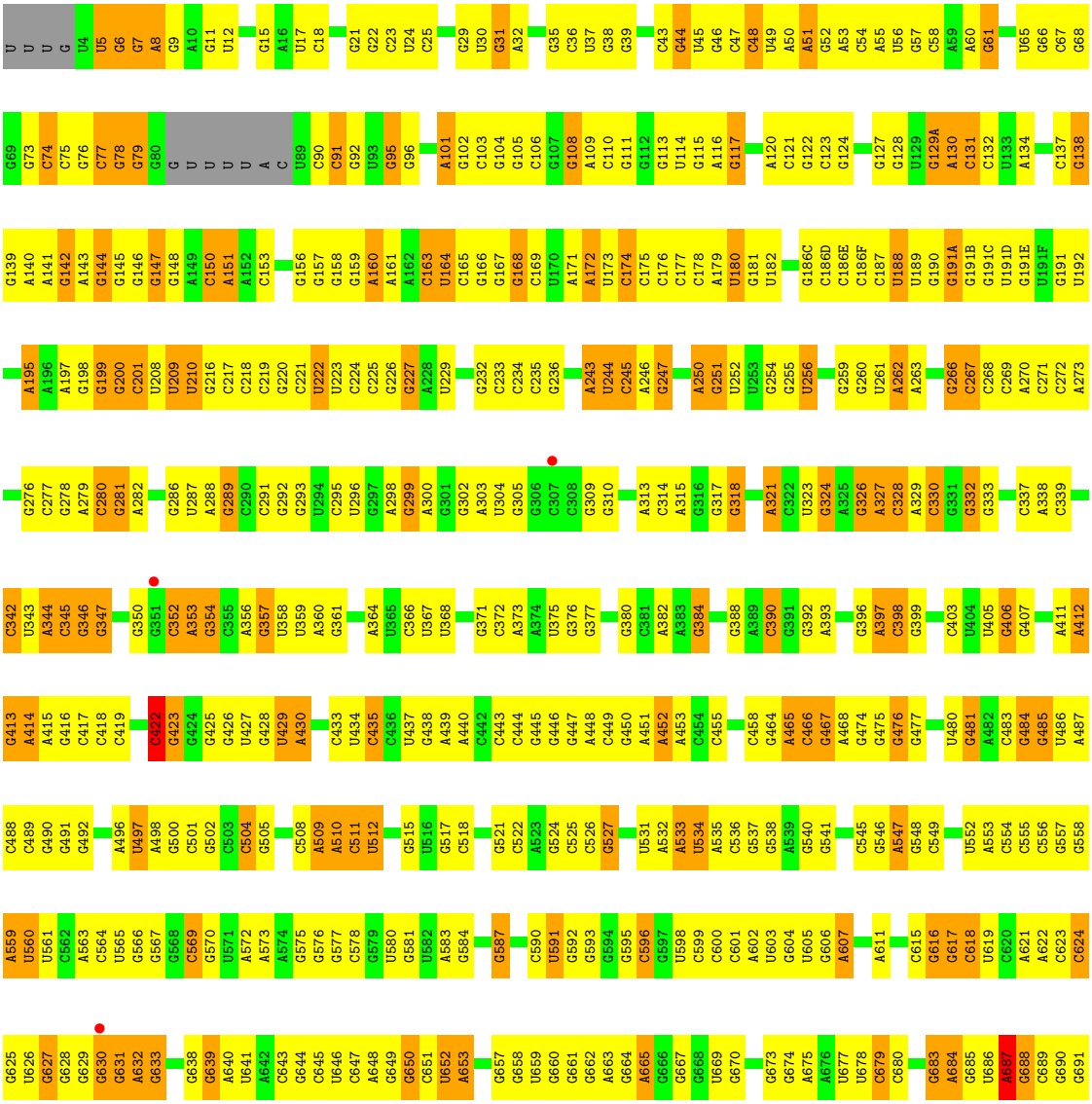
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	H5	2	Total O 2 2	0	0
59	L5	1	Total O 1 1	0	0
59	M5	1	Total O 1 1	0	0

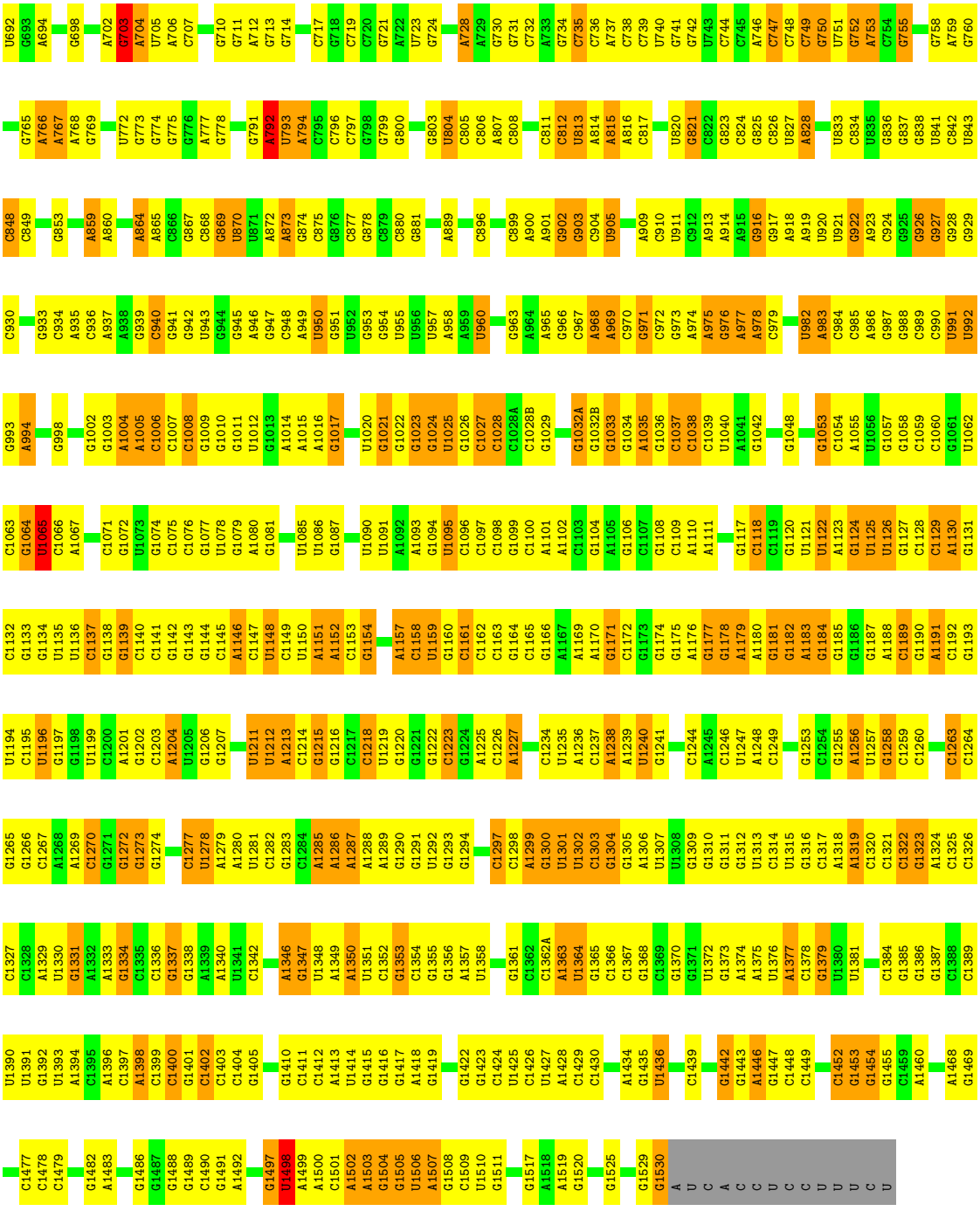
3 Residue-property plots (i)

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

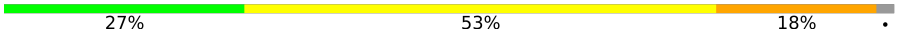
Chain 13: 29% 50% 19%

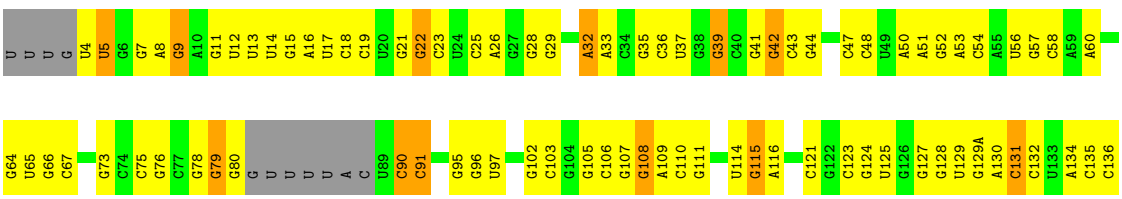


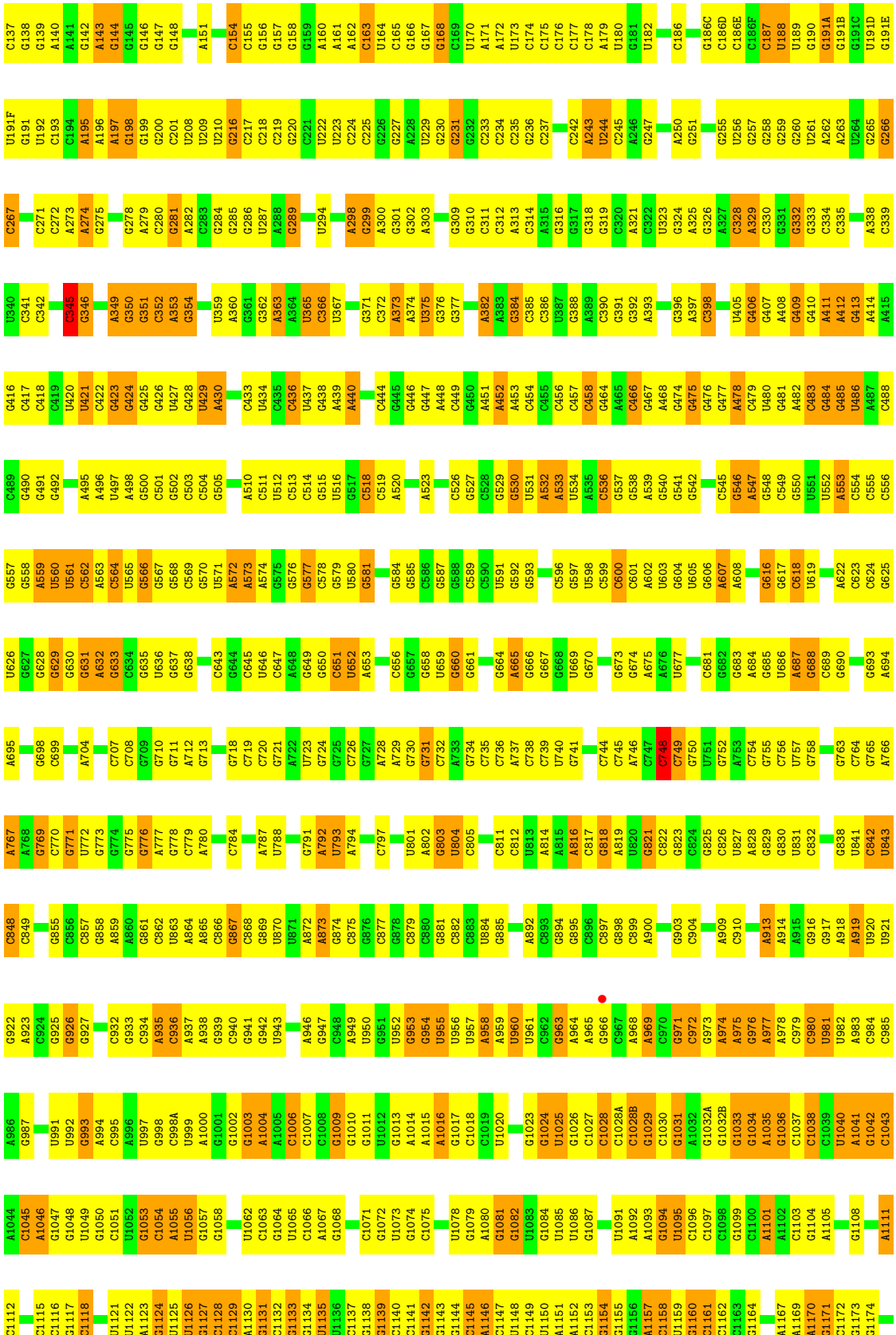


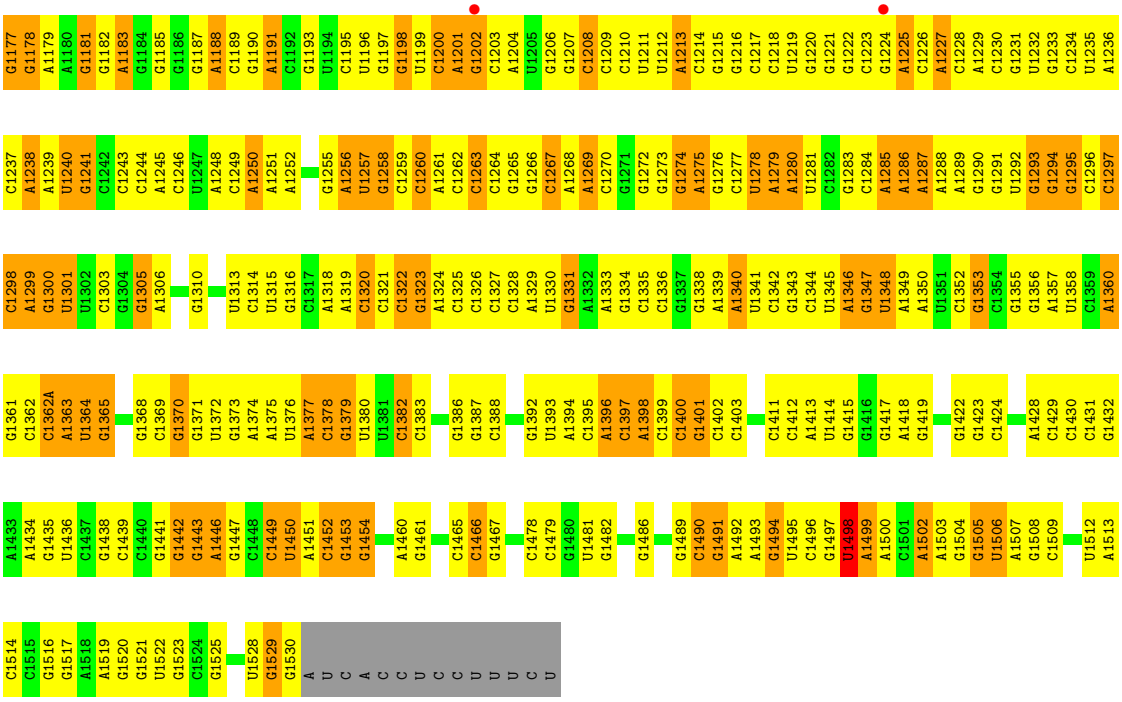
• Molecule 1: 16S ribosomal RNA

Chain 1G:



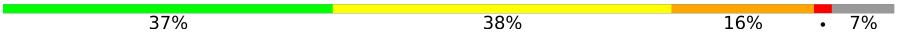


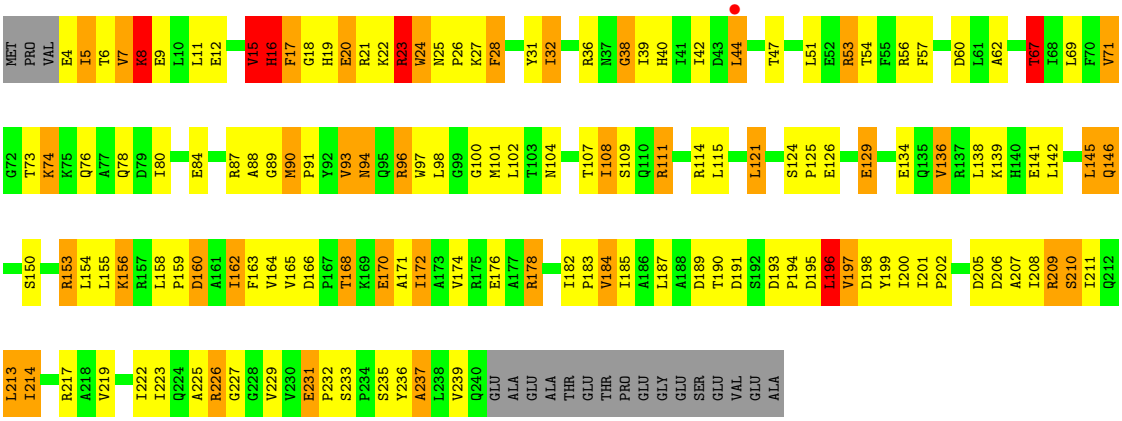




• Molecule 2: 30S ribosomal protein S2

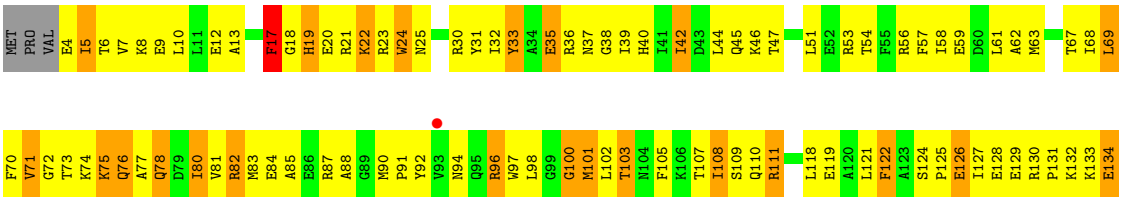
Chain 1E:

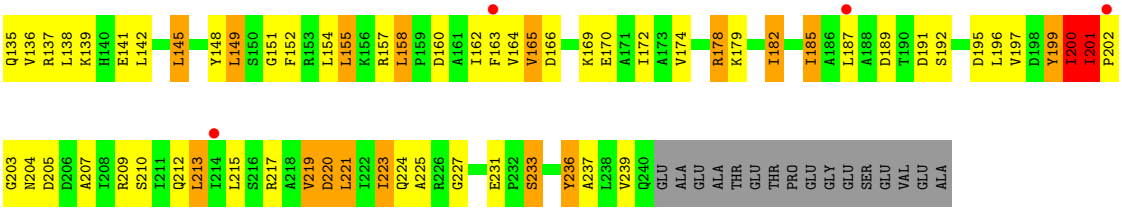




• Molecule 2: 30S ribosomal protein S2

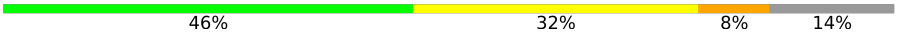
Chain 12:

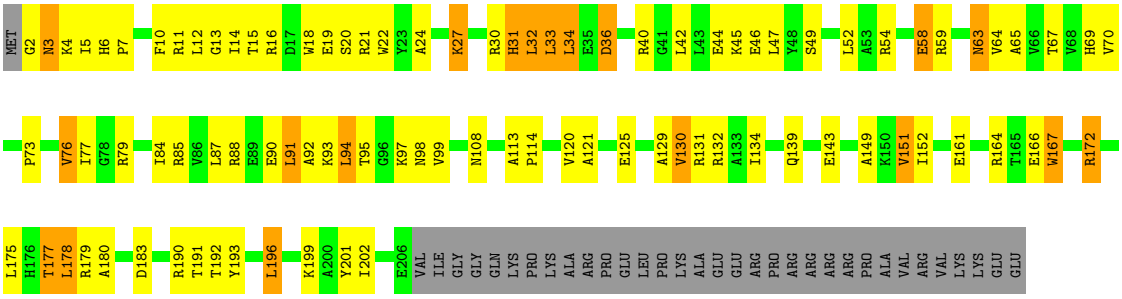




• Molecule 3: 30S ribosomal protein S3

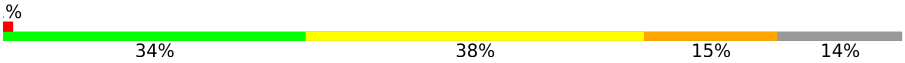
Chain 2E:

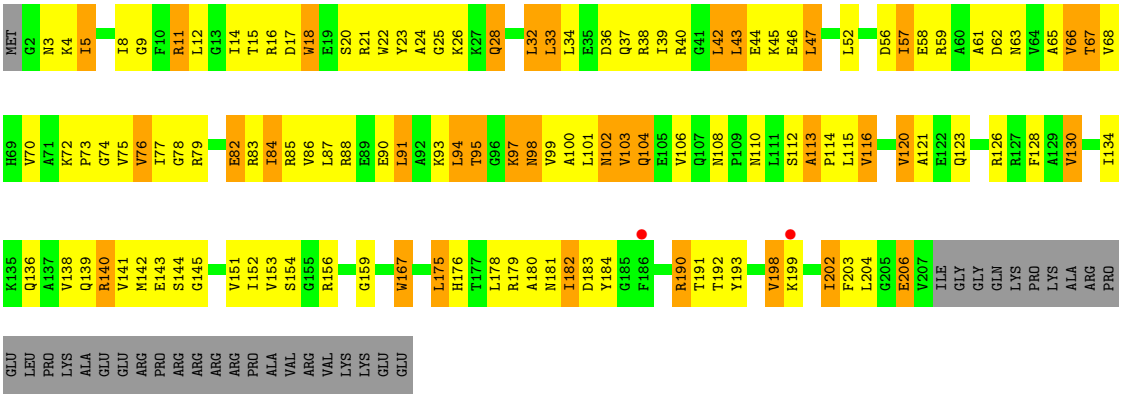




• Molecule 3: 30S ribosomal protein S3

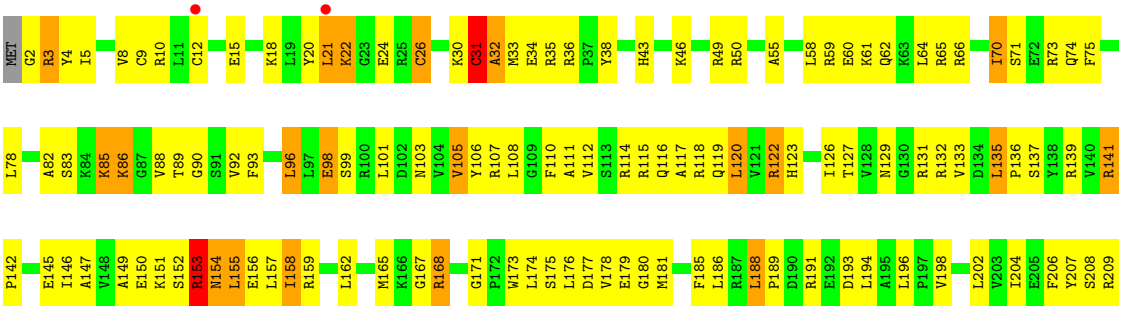
Chain 22:





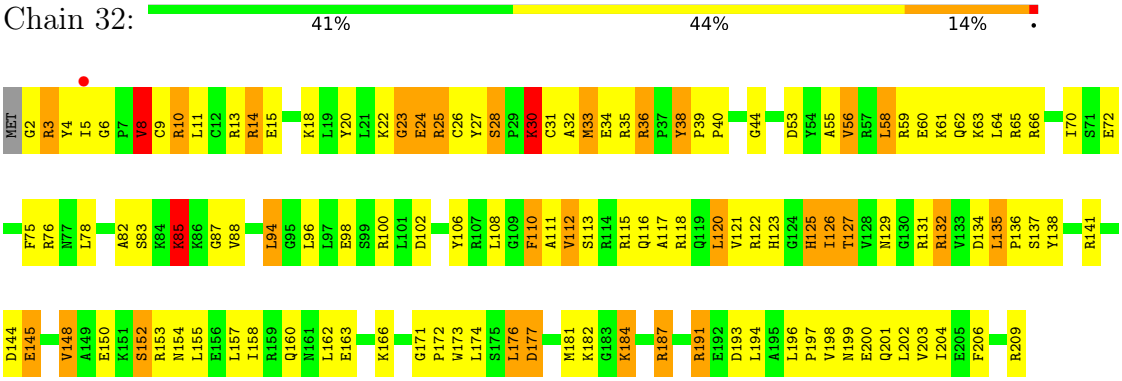
• Molecule 4: 30S ribosomal protein S4

Chain 3E:



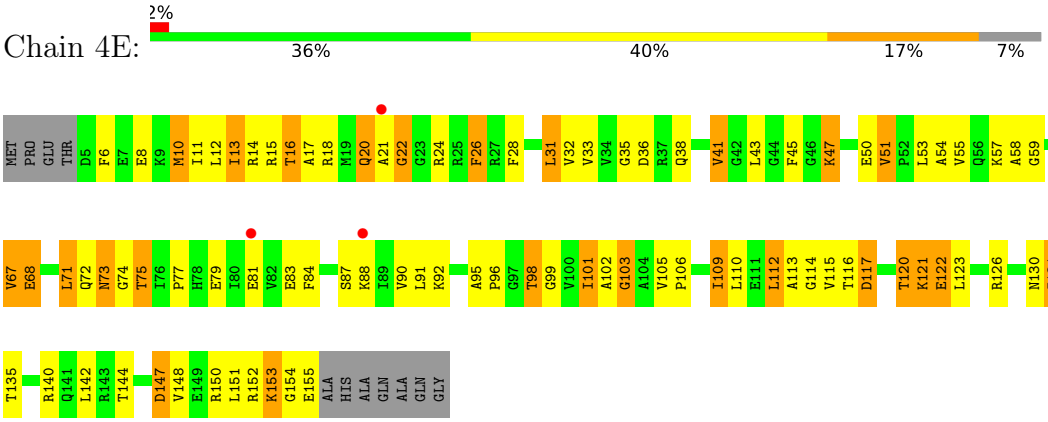
• Molecule 4: 30S ribosomal protein S4

Chain 32:



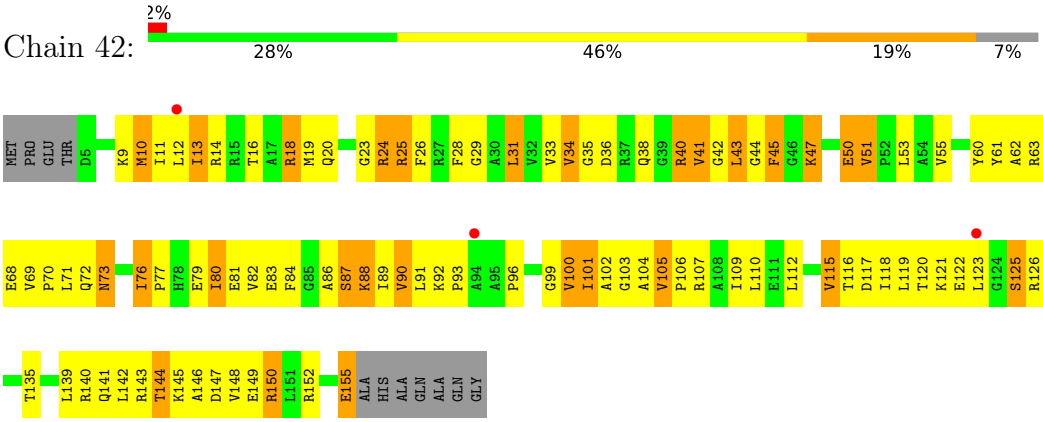
• Molecule 5: 30S ribosomal protein S5

Chain 4E:



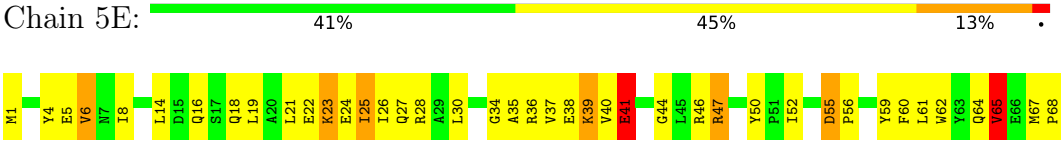
• Molecule 5: 30S ribosomal protein S5

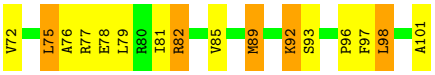
Chain 42:



• Molecule 6: 30S ribosomal protein S6

Chain 5E:



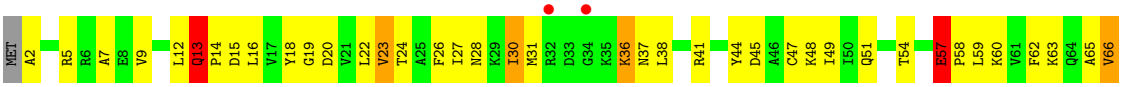


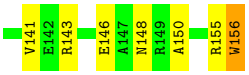
• Molecule 6: 30S ribosomal protein S6

Chain 52:

• Molecule 7: 30S ribosomal protein S7

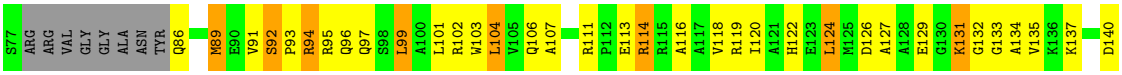
Chain 6E:





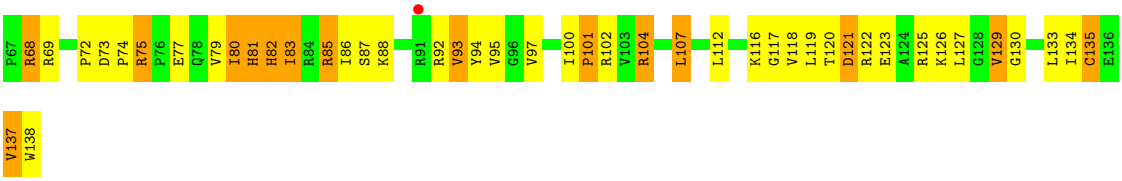
• Molecule 7: 30S ribosomal protein S7

Chain 62:

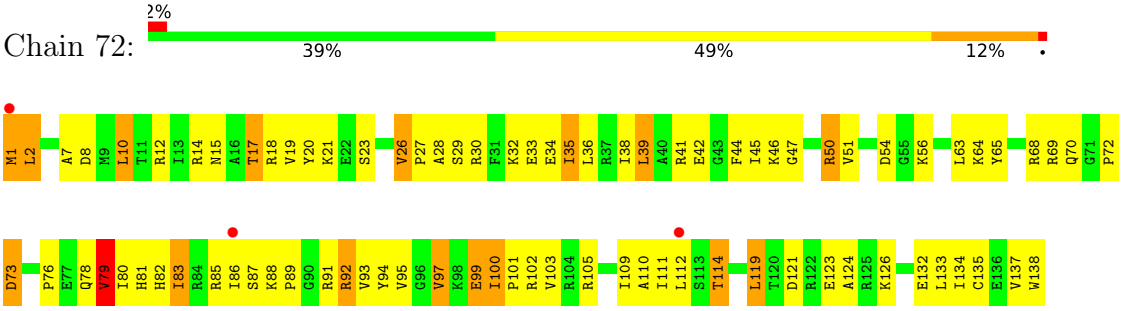


• Molecule 8: 30S ribosomal protein S8

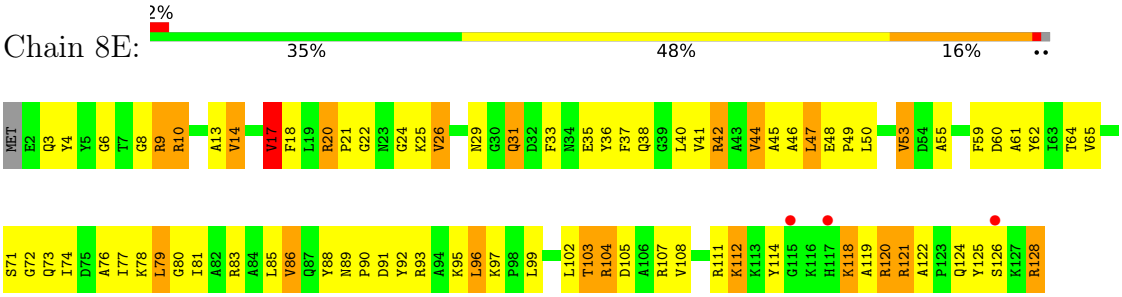
Chain 7E:



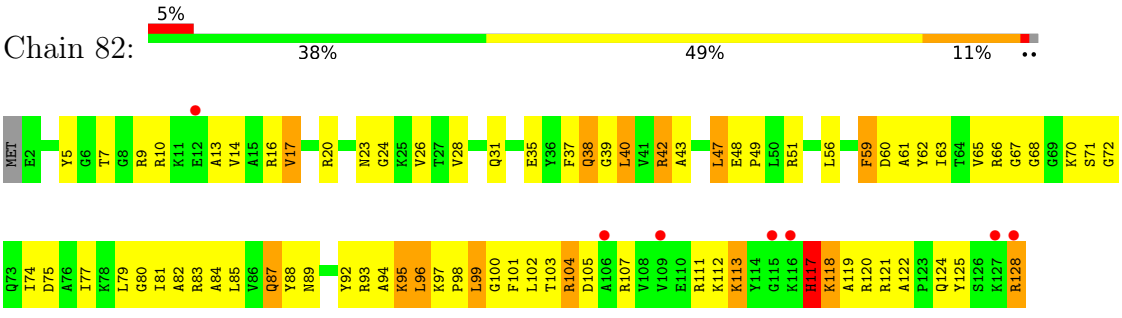
• Molecule 8: 30S ribosomal protein S8



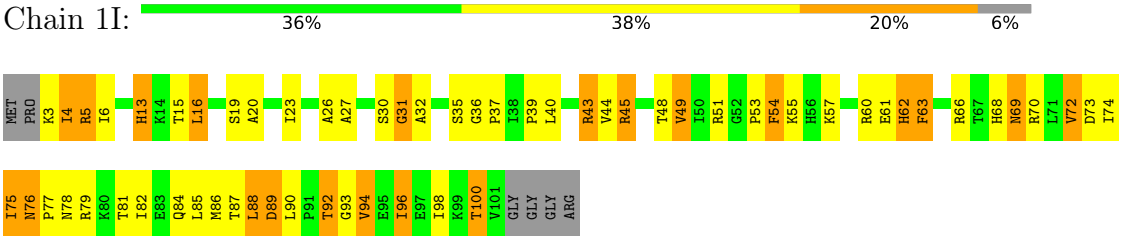
• Molecule 9: 30S ribosomal protein S9



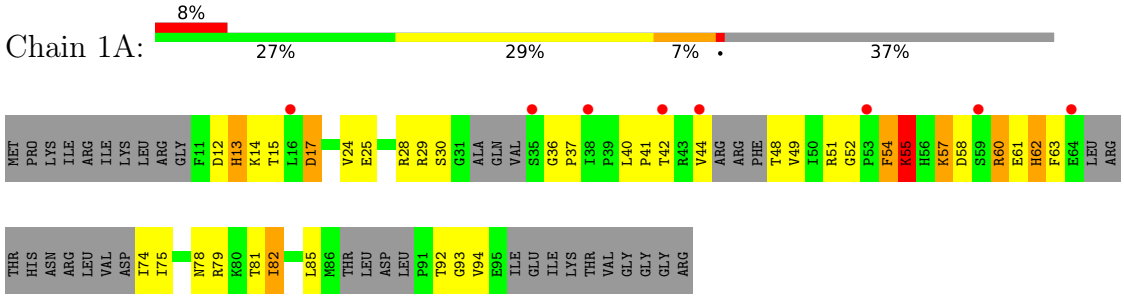
• Molecule 9: 30S ribosomal protein S9



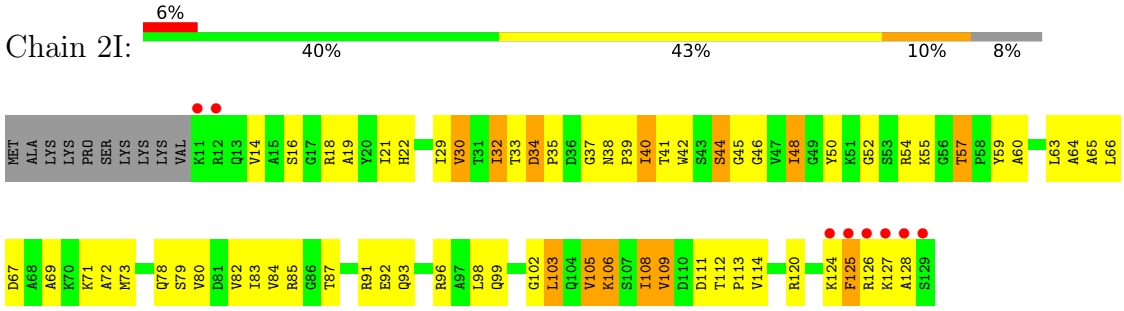
• Molecule 10: 30S ribosomal protein S10



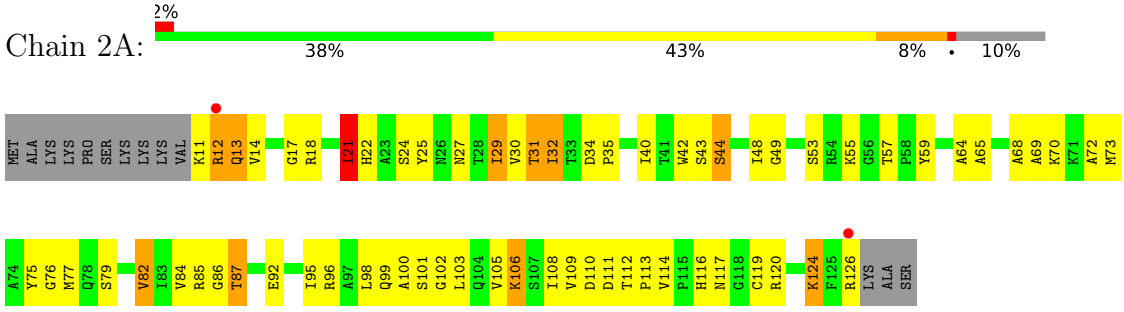
• Molecule 10: 30S ribosomal protein S10



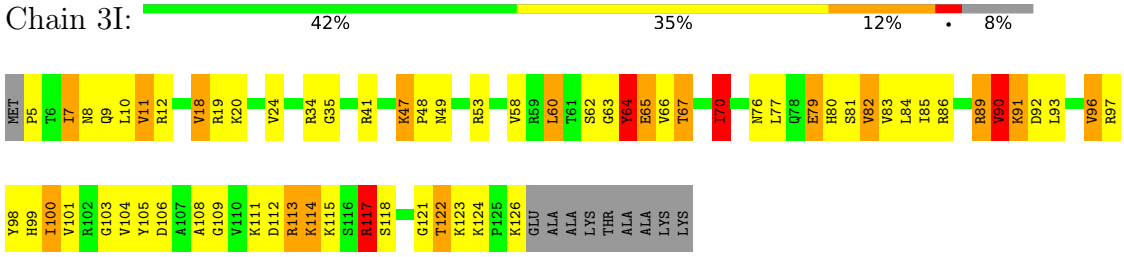
• Molecule 11: 30S ribosomal protein S11



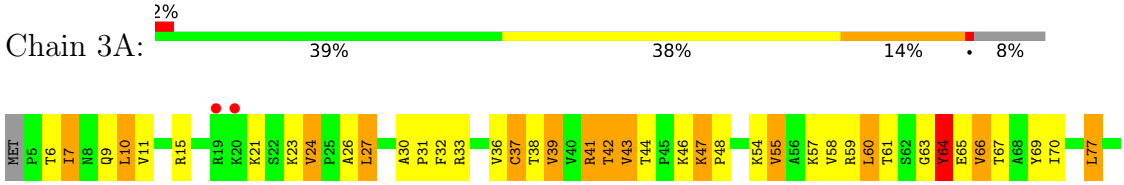
• Molecule 11: 30S ribosomal protein S11

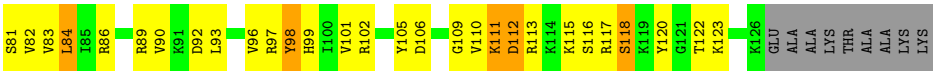


• Molecule 12: 30S ribosomal protein S12



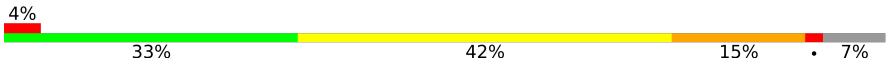
• Molecule 12: 30S ribosomal protein S12

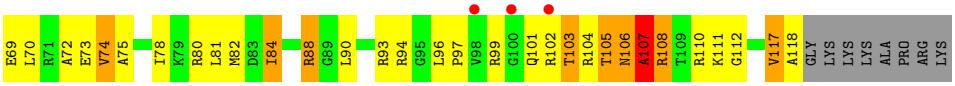




• Molecule 13: 30S ribosomal protein S13

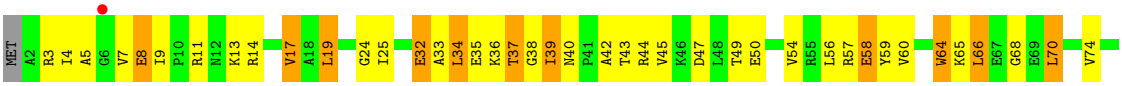
Chain 4I:

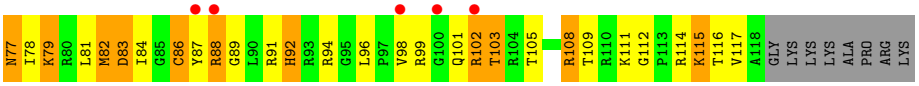




• Molecule 13: 30S ribosomal protein S13

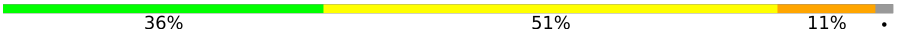
Chain 4A:





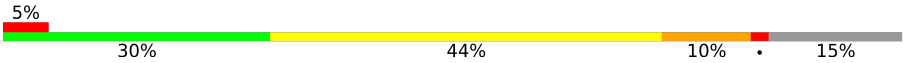
• Molecule 14: 30S ribosomal protein S14 type Z

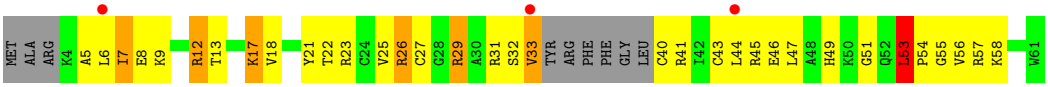
Chain 5I:



• Molecule 14: 30S ribosomal protein S14 type Z

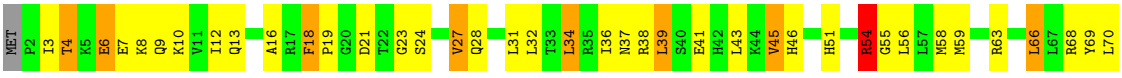
Chain 5A:





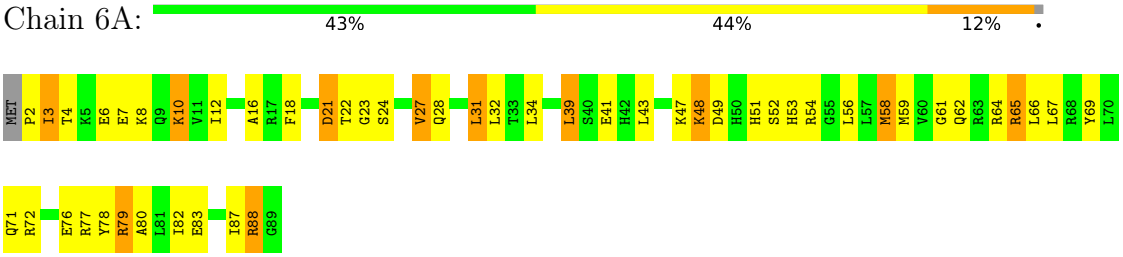
• Molecule 15: 30S ribosomal protein S15

Chain 6I:



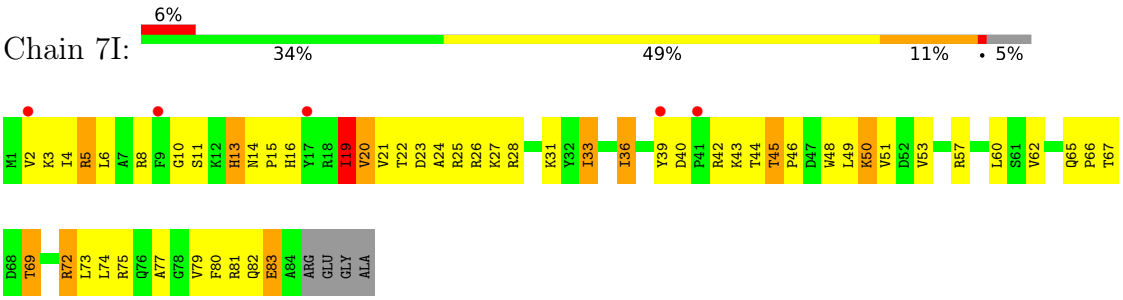
• Molecule 15: 30S ribosomal protein S15

Chain 6A:



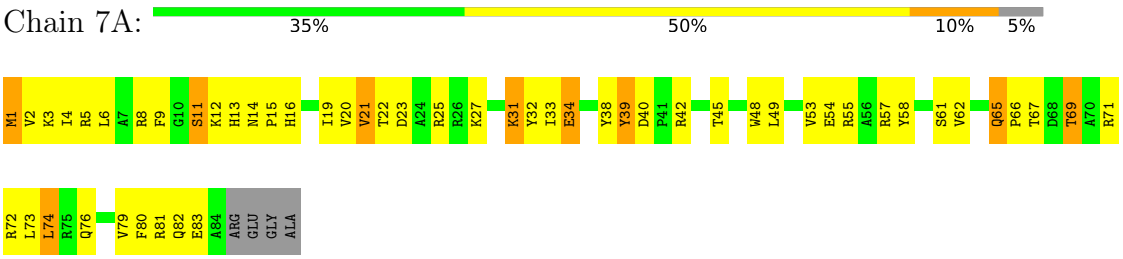
• Molecule 16: 30S ribosomal protein S16

Chain 7I:



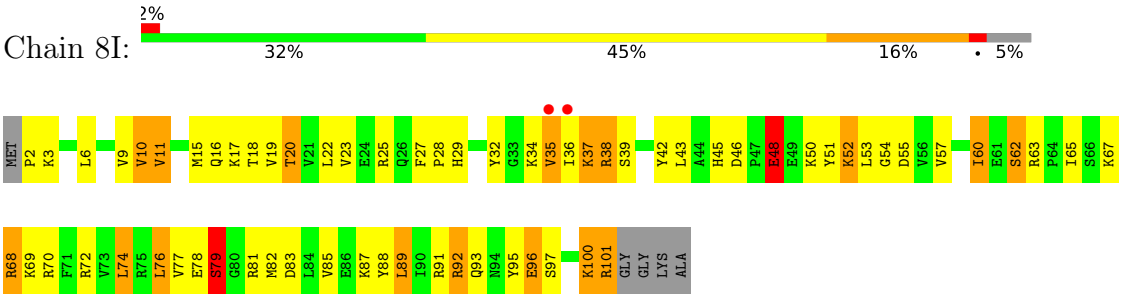
• Molecule 16: 30S ribosomal protein S16

Chain 7A:



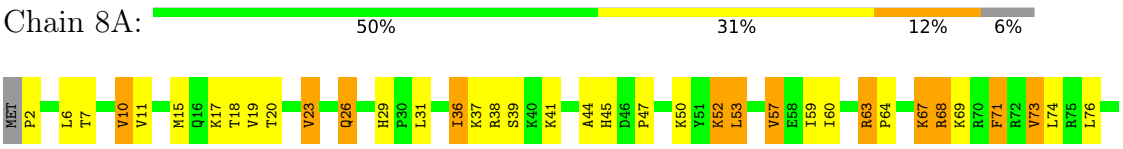
• Molecule 17: 30S ribosomal protein S17

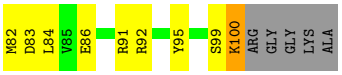
Chain 8I:



• Molecule 17: 30S ribosomal protein S17

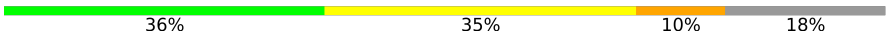
Chain 8A:

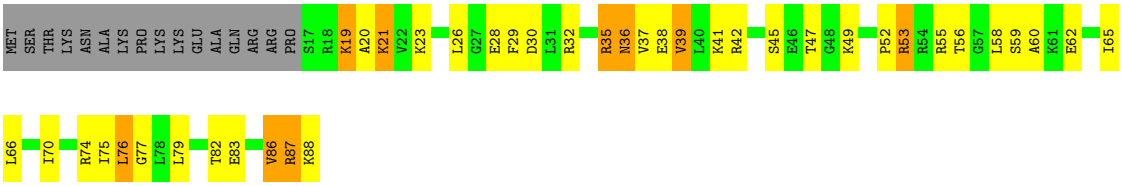




• Molecule 18: 30S ribosomal protein S18

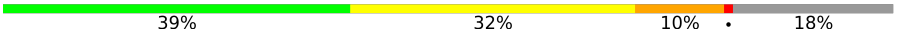
Chain 9I:

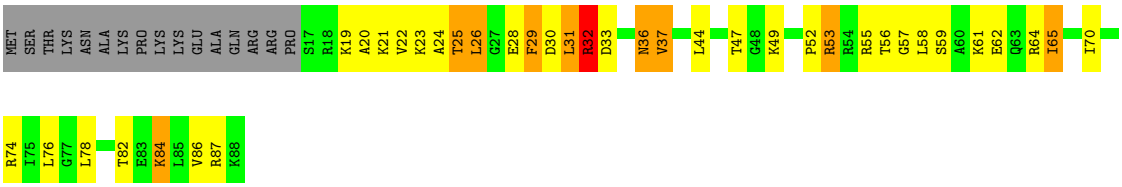




• Molecule 18: 30S ribosomal protein S18

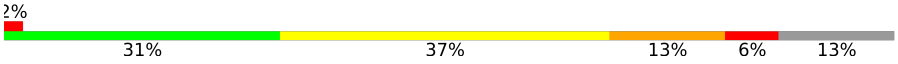
Chain 9A:

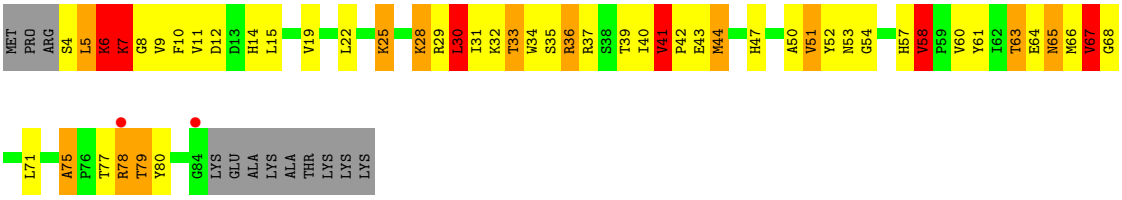




• Molecule 19: 30S ribosomal protein S19

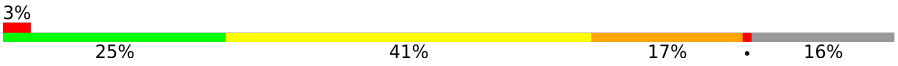
Chain AI:

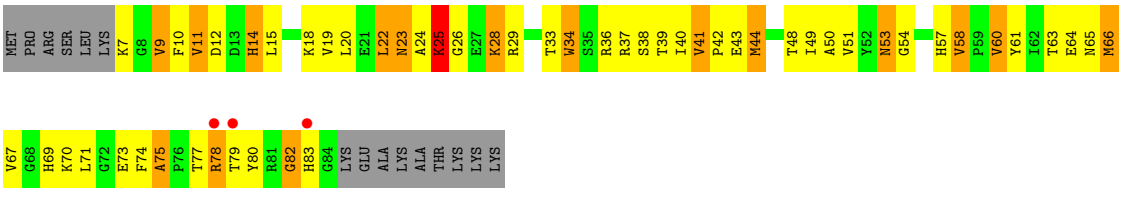




• Molecule 19: 30S ribosomal protein S19

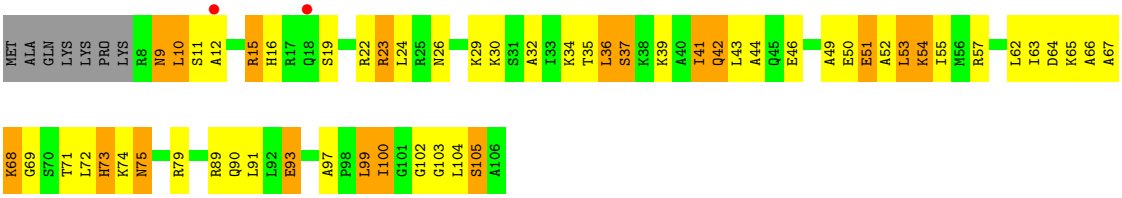
Chain AA:





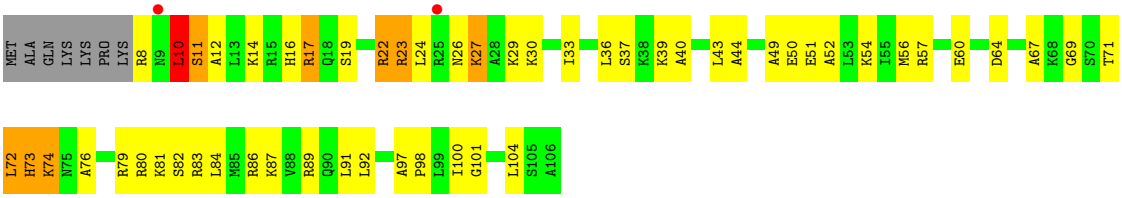
• Molecule 20: 30S ribosomal protein S20

Chain BI:



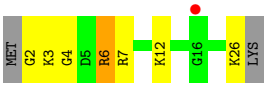
• Molecule 20: 30S ribosomal protein S20

Chain BA:



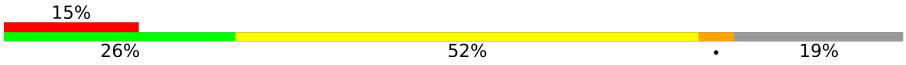
• Molecule 21: 30S ribosomal protein Thx

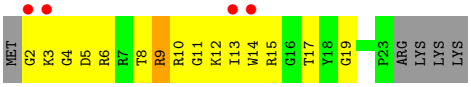
Chain 1F:



• Molecule 21: 30S ribosomal protein Thx

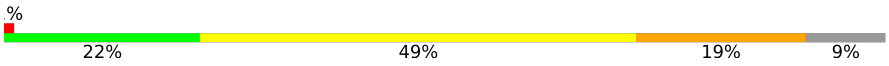
Chain 1B:

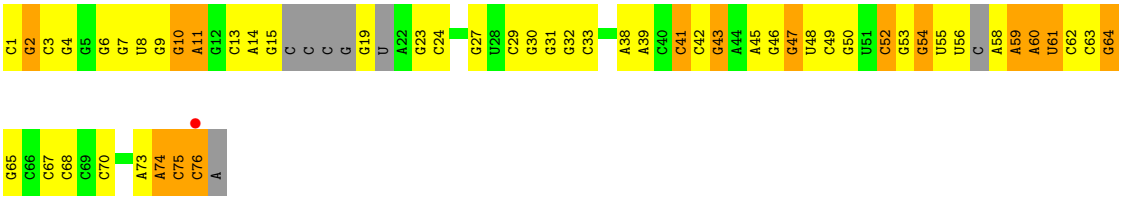




• Molecule 22: tRNA-fMet

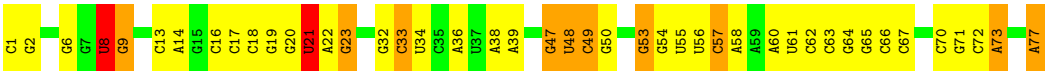
Chain 1K:





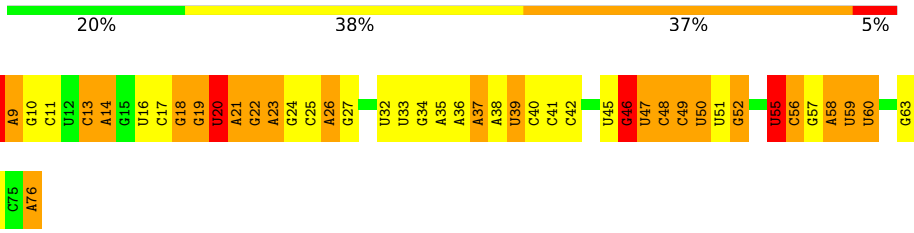
• Molecule 23: tRNA-fMet

Chain 2K:



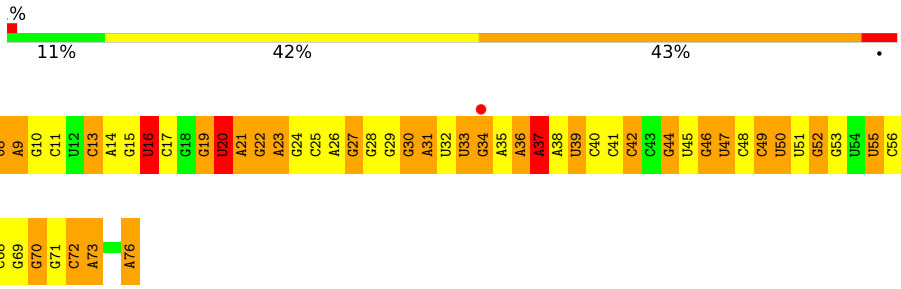
• Molecule 24: tRNA-Phe

Chain 3K:



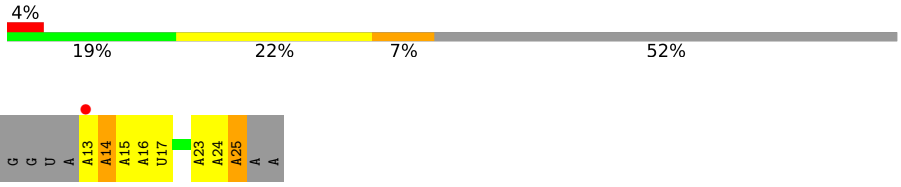
• Molecule 24: tRNA-Phe

Chain 3L:



• Molecule 25: mRNA

Chain 4K:

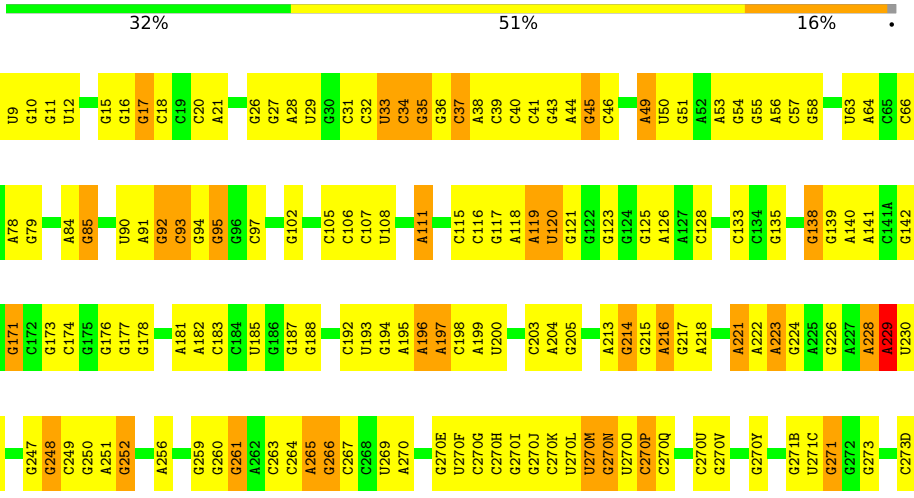


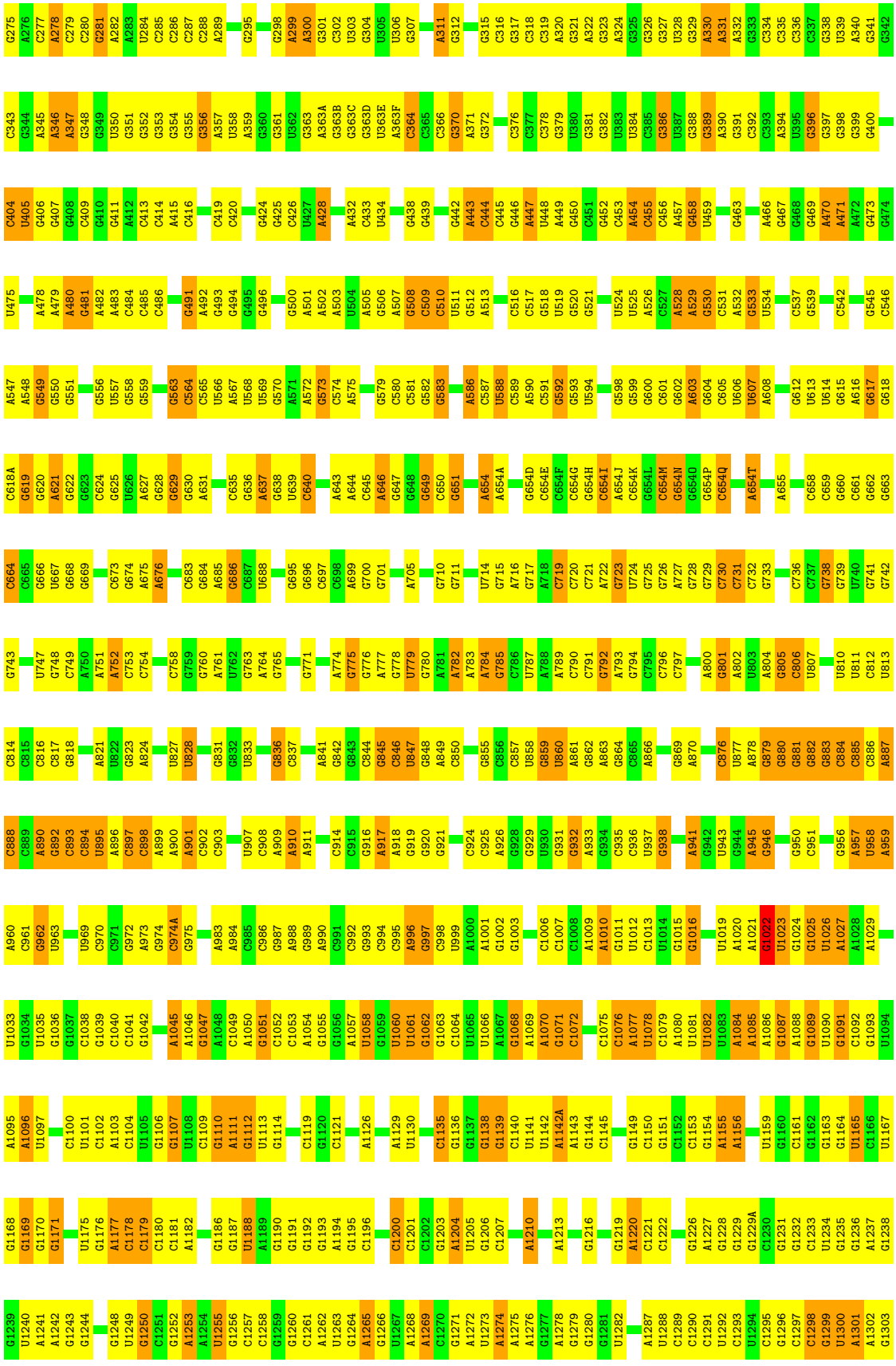
• Molecule 25: mRNA

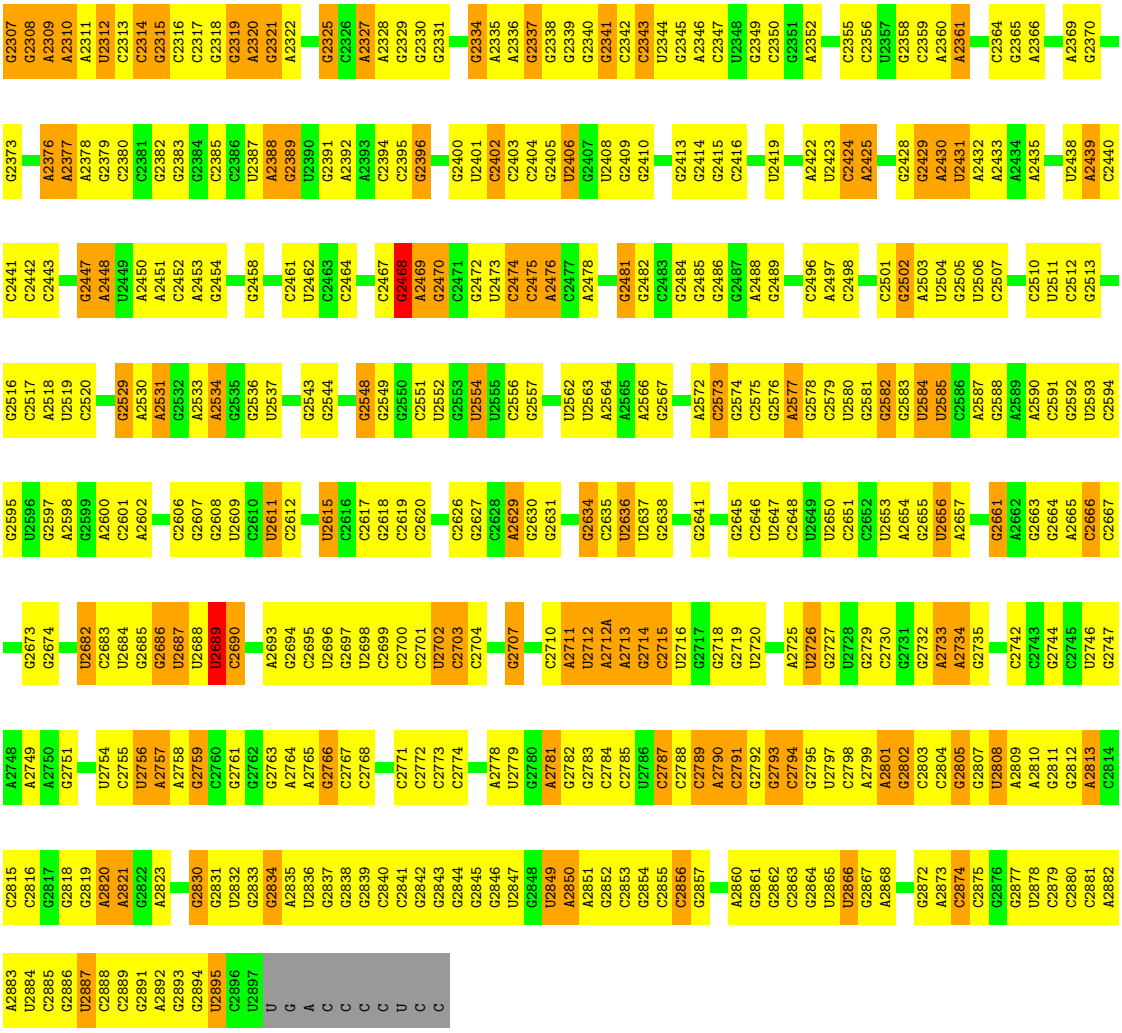
Chain 4L:

• Molecule 26: 23S ribosomal RNA

Chain 1H:

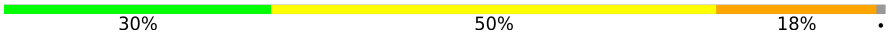


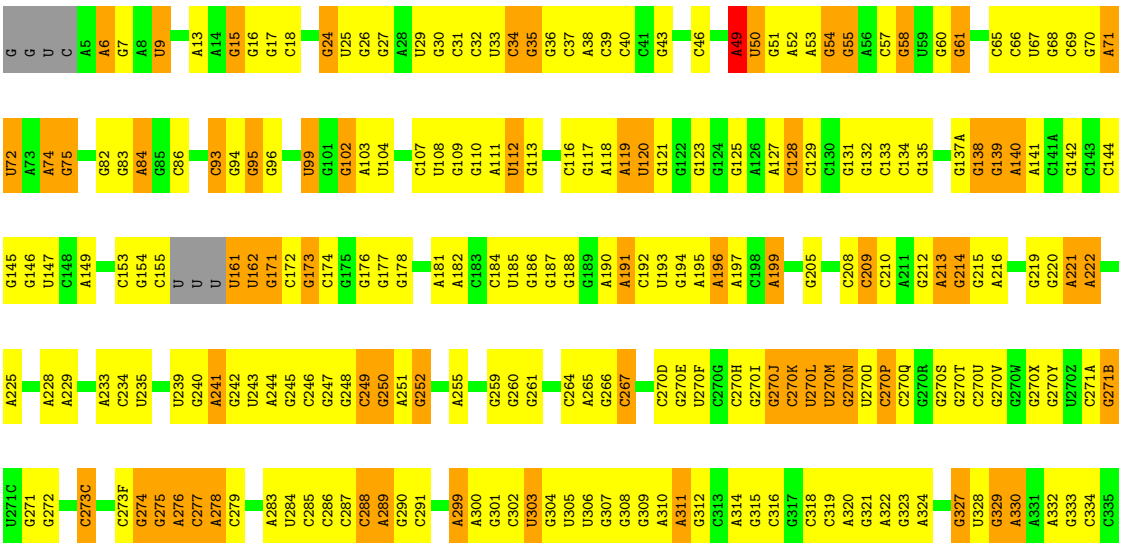


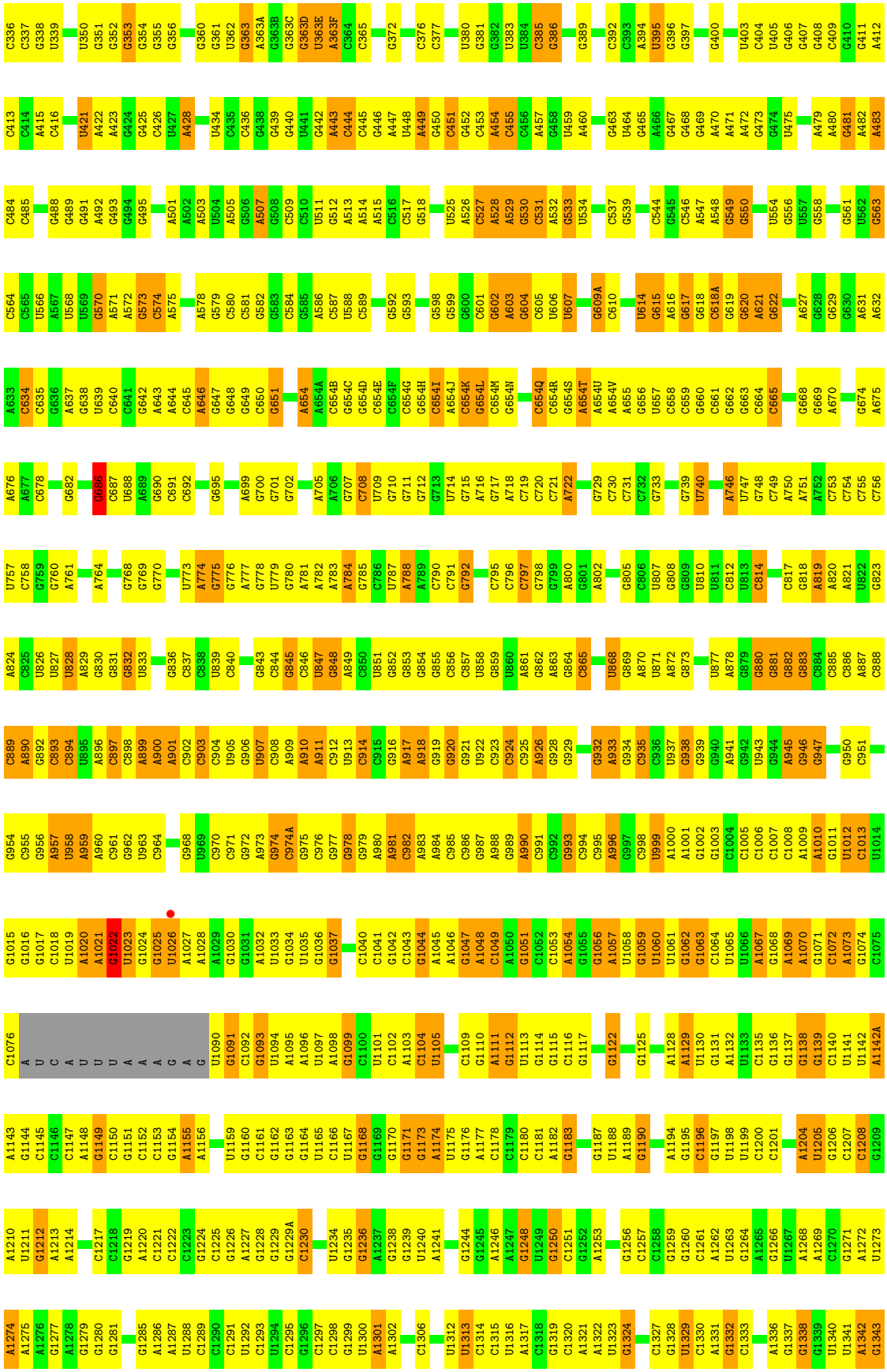


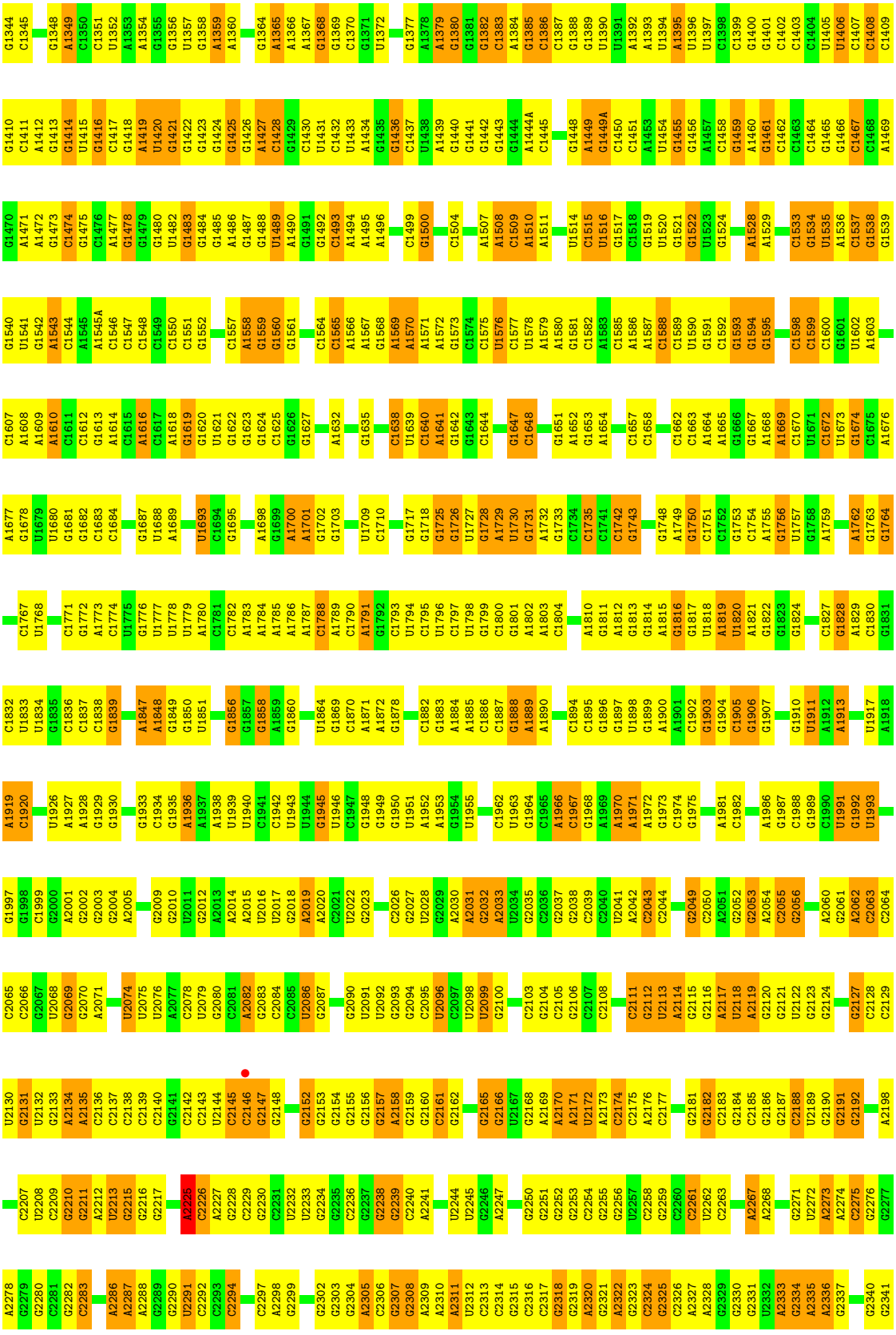
• Molecule 26: 23S ribosomal RNA

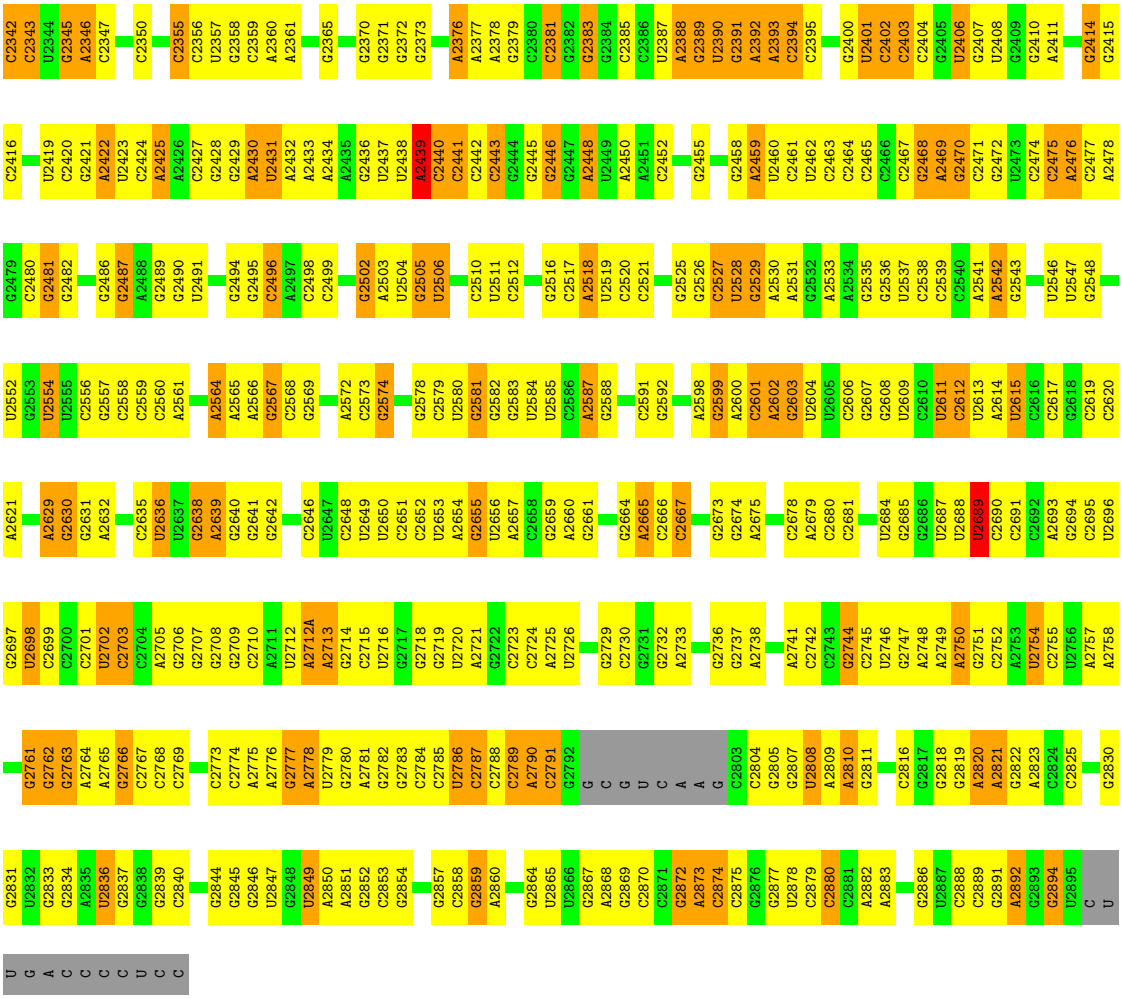
Chain 14:





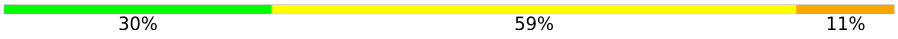


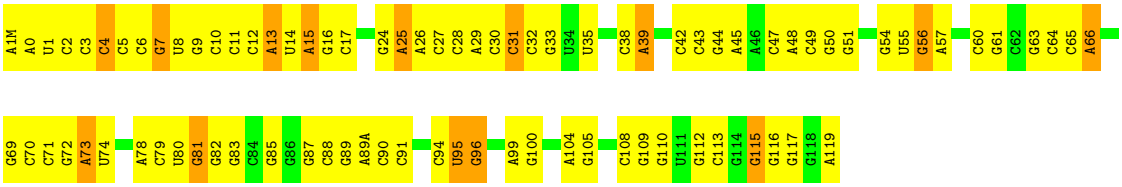




• Molecule 27: 5S ribosomal RNA

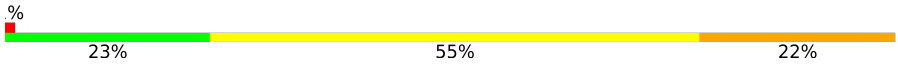
Chain 16:

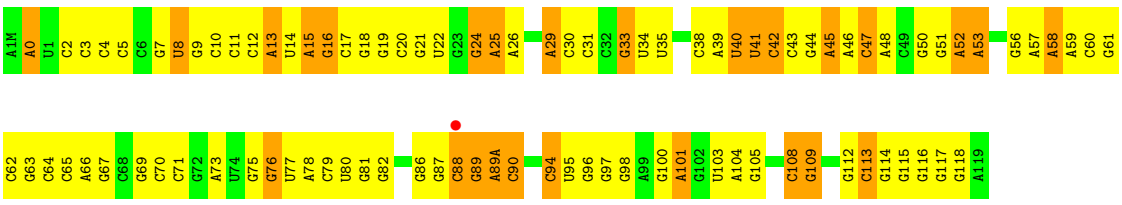




• Molecule 27: 5S ribosomal RNA

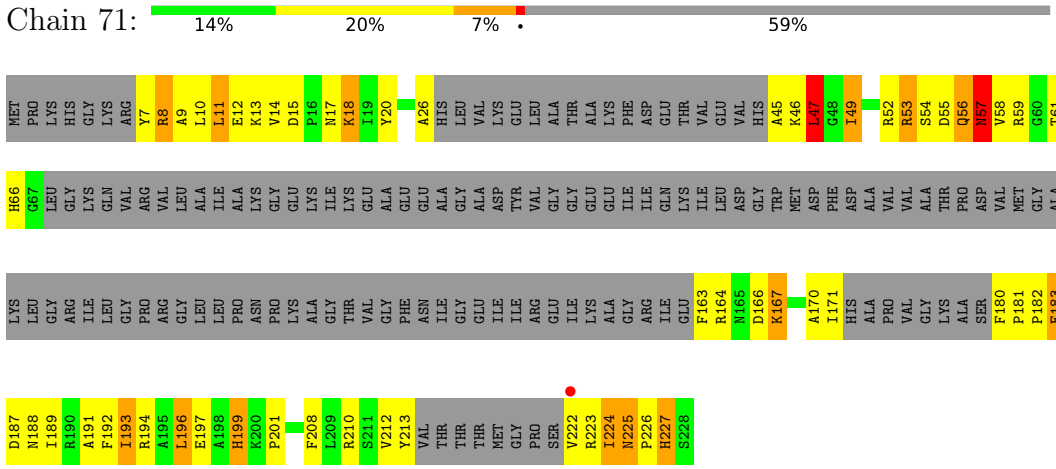
Chain 1J:





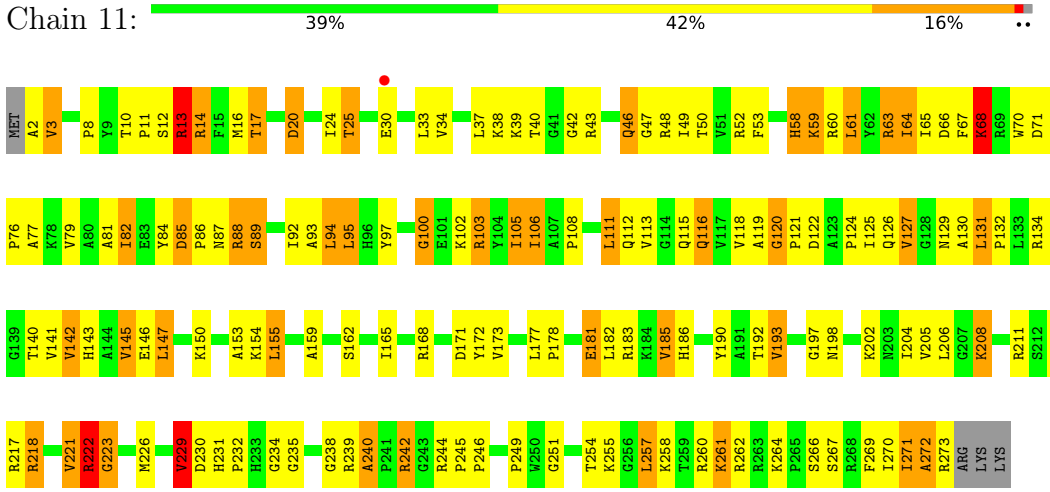
• Molecule 28: 50S ribosomal protein L1

Chain 71:



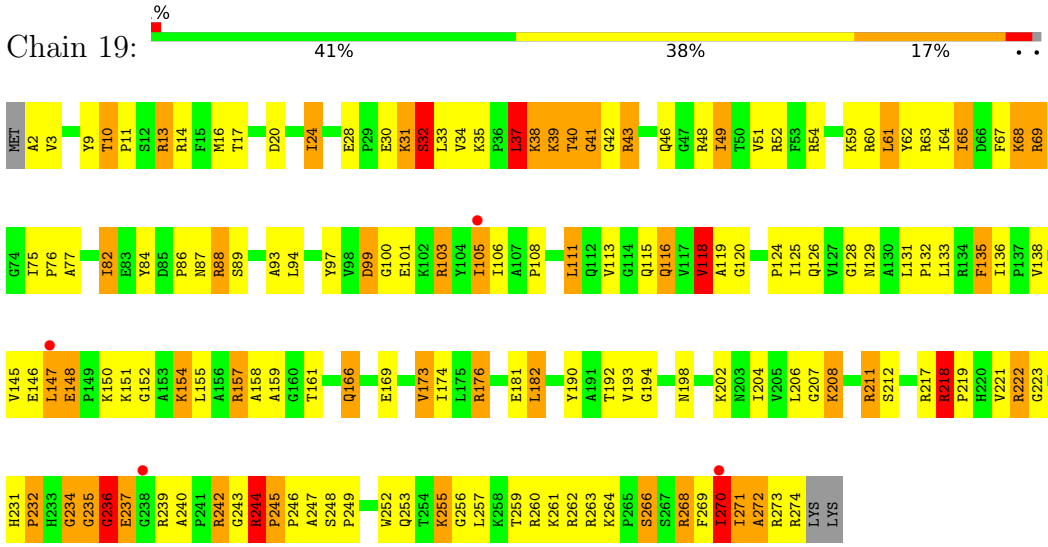
• Molecule 29: 50S ribosomal protein L2

Chain 11:



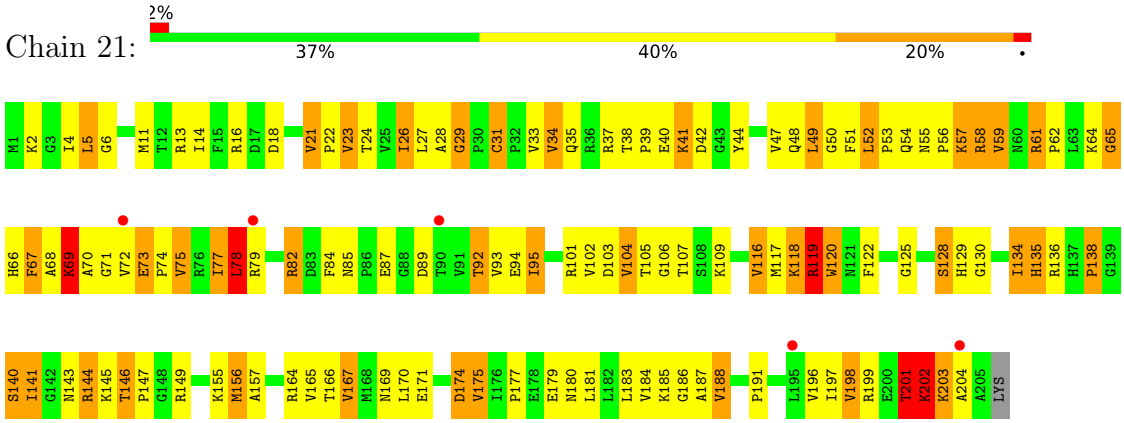
• Molecule 29: 50S ribosomal protein L2

Chain 19:



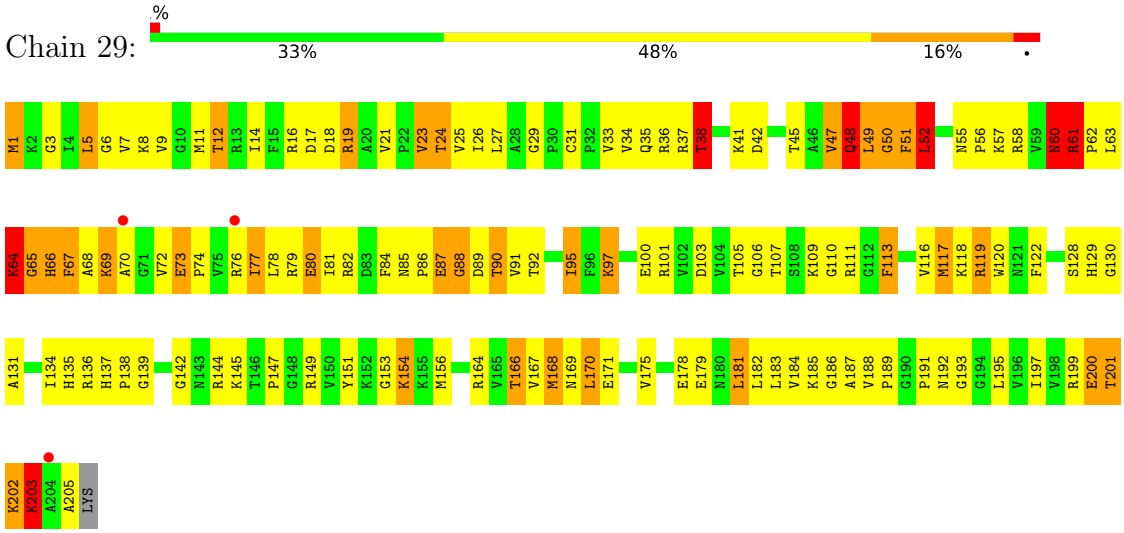
• Molecule 30: 50S ribosomal protein L3

Chain 21:



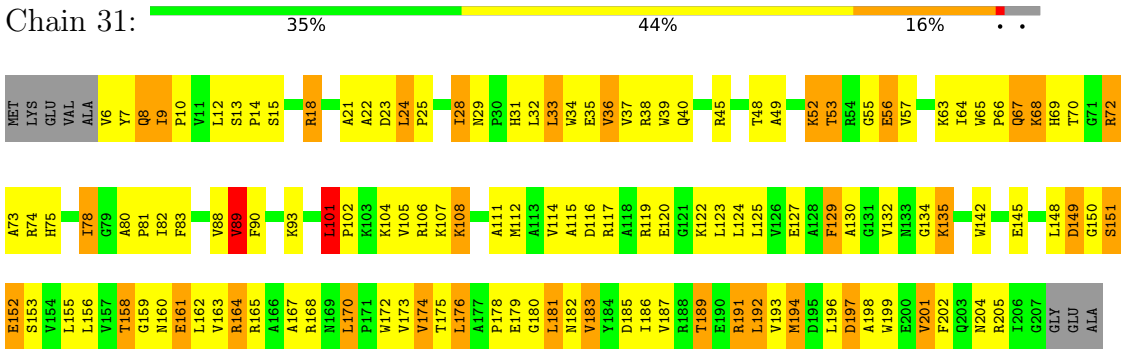
• Molecule 30: 50S ribosomal protein L3

Chain 29:



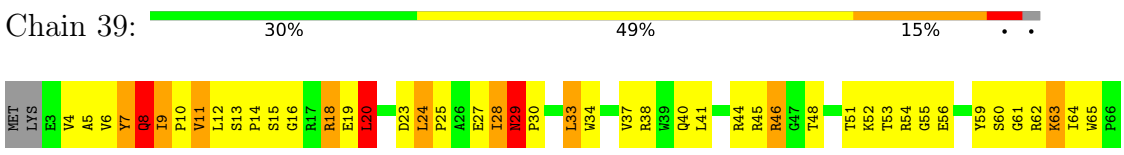
• Molecule 31: 50S ribosomal protein L4

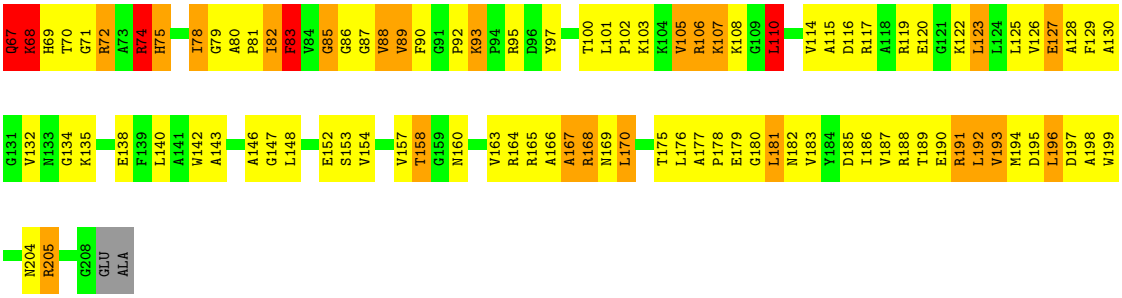
Chain 31:



• Molecule 31: 50S ribosomal protein L4

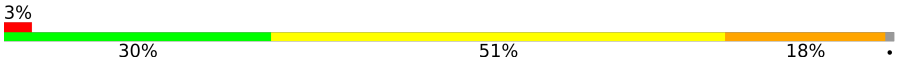
Chain 39:

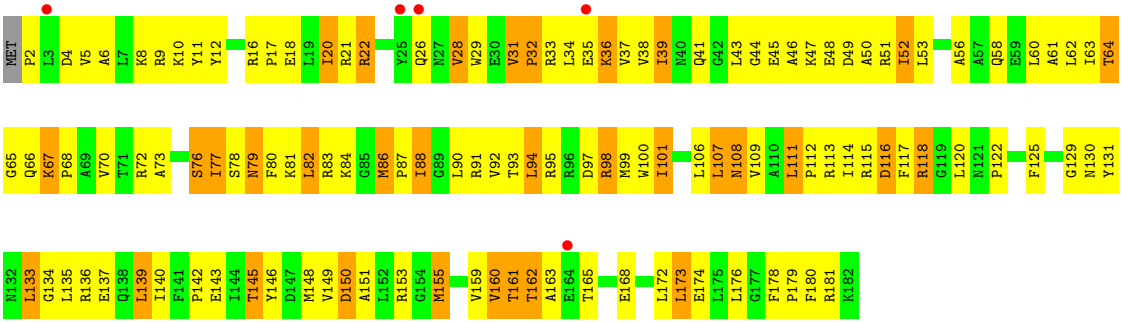




• Molecule 32: 50S ribosomal protein L5

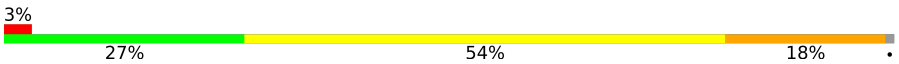
Chain 41:

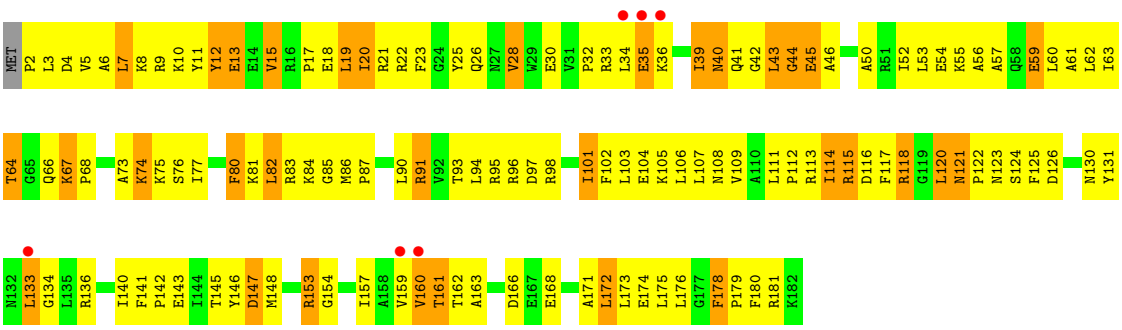




• Molecule 32: 50S ribosomal protein L5

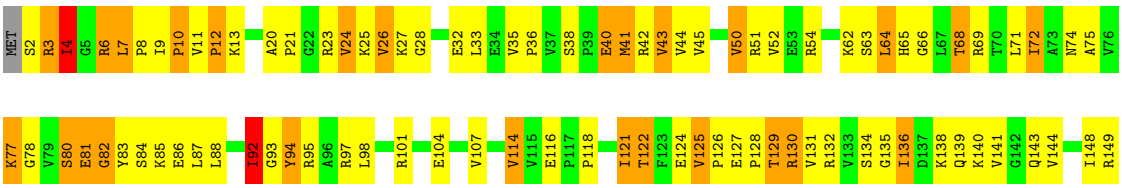
Chain 49:





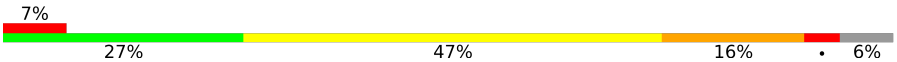
• Molecule 33: 50S ribosomal protein L6

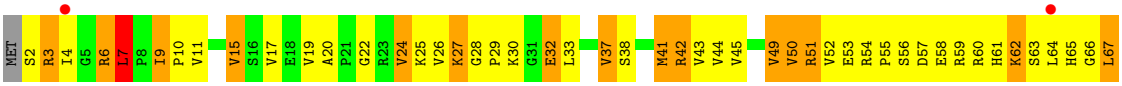
Chain 51:

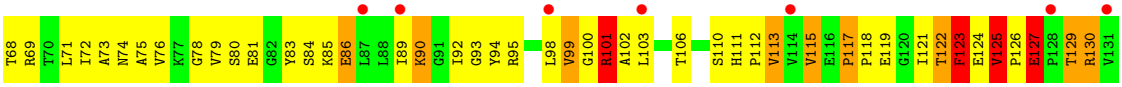


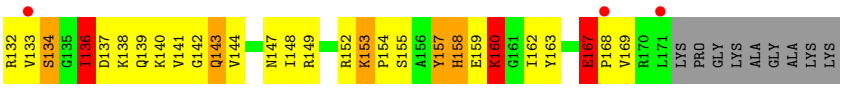
• Molecule 33: 50S ribosomal protein L6

Chain 59:



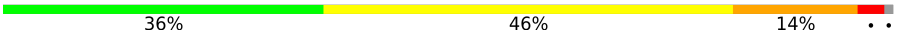


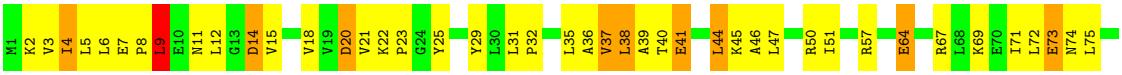


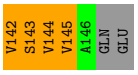


• Molecule 34: 50S ribosomal protein L9

Chain 61:

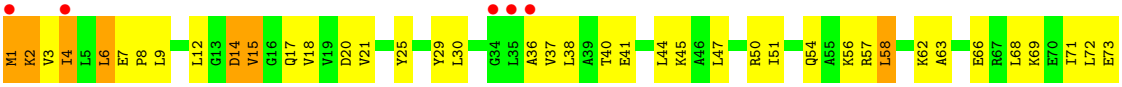


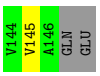




• Molecule 34: 50S ribosomal protein L9

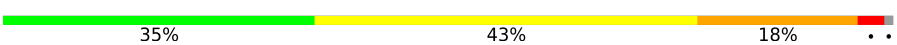
Chain 69:

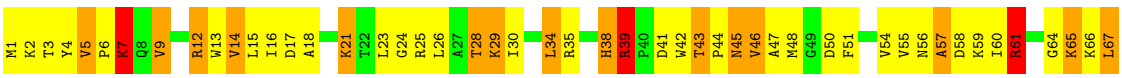


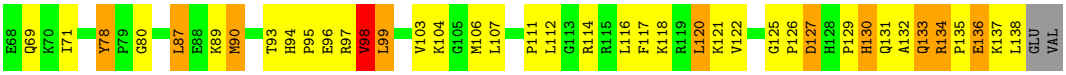


• Molecule 35: 50S ribosomal protein L13

Chain 58:

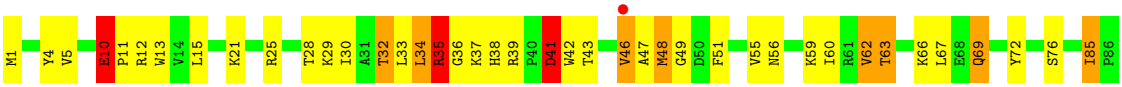


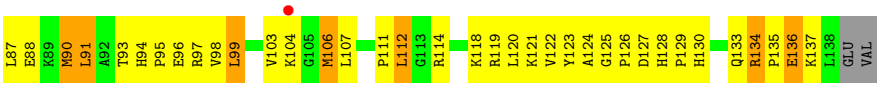




• Molecule 35: 50S ribosomal protein L13

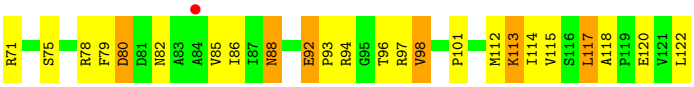
Chain 15:





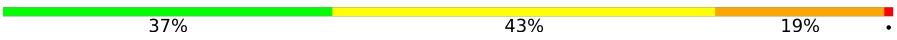
• Molecule 36: 50S ribosomal protein L14

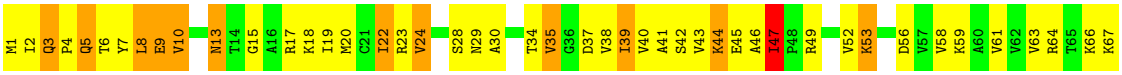
Chain 68:



• Molecule 36: 50S ribosomal protein L14

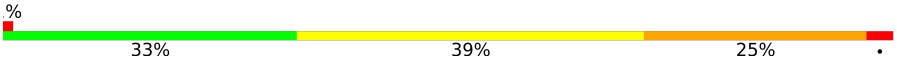
Chain 25:

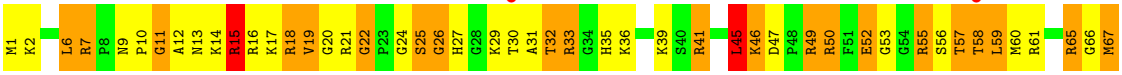


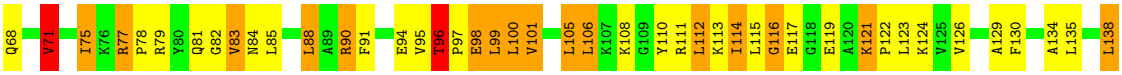


• Molecule 37: 50S ribosomal protein L15

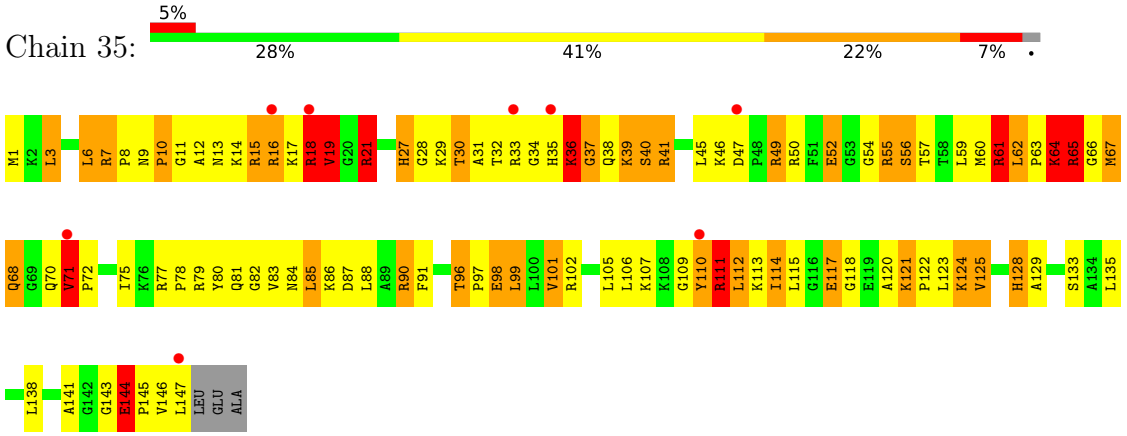
Chain 78:



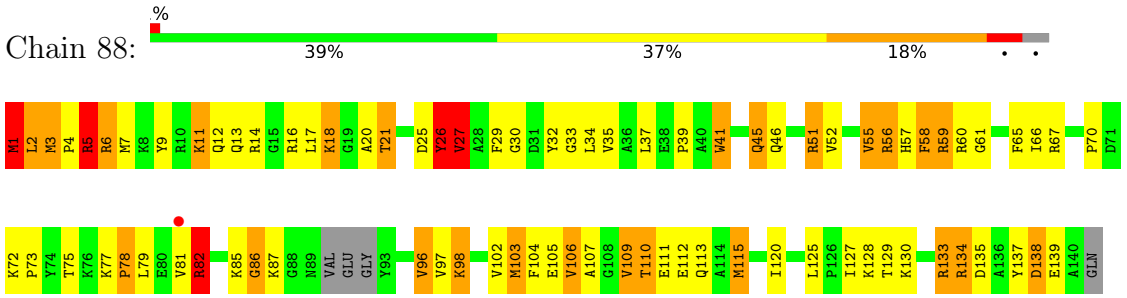




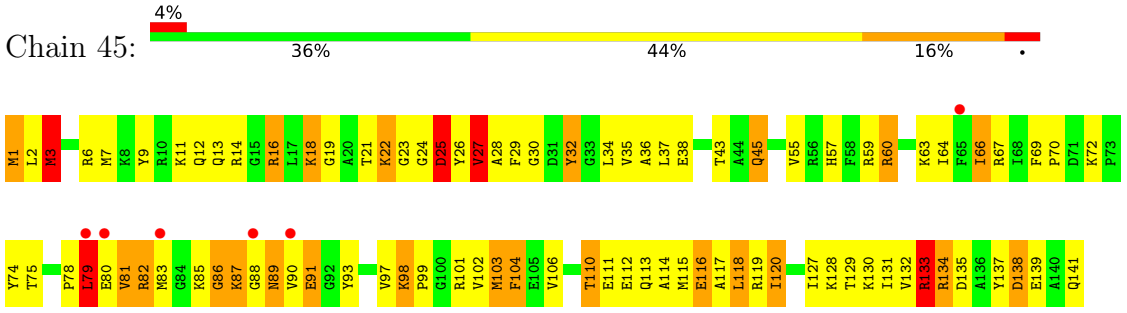
• Molecule 37: 50S ribosomal protein L15



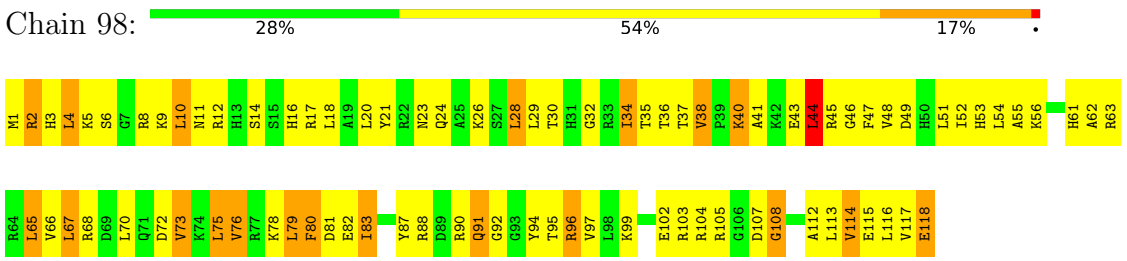
• Molecule 38: 50S ribosomal protein L16



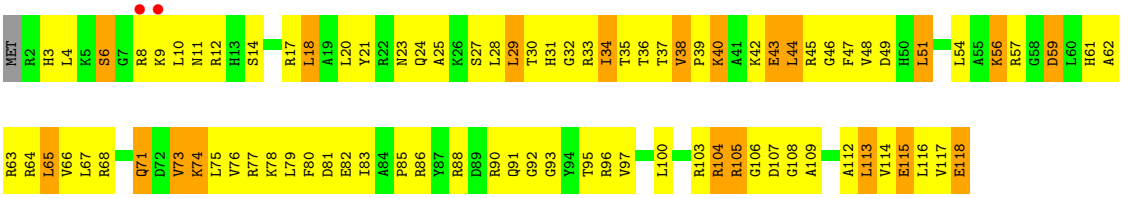
• Molecule 38: 50S ribosomal protein L16



• Molecule 39: 50S ribosomal protein L17

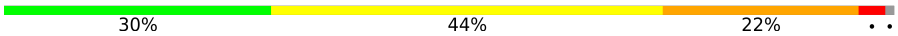


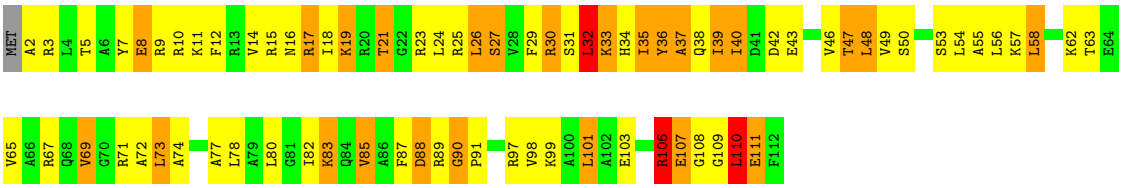
• Molecule 39: 50S ribosomal protein L17



• Molecule 40: 50S ribosomal protein L18

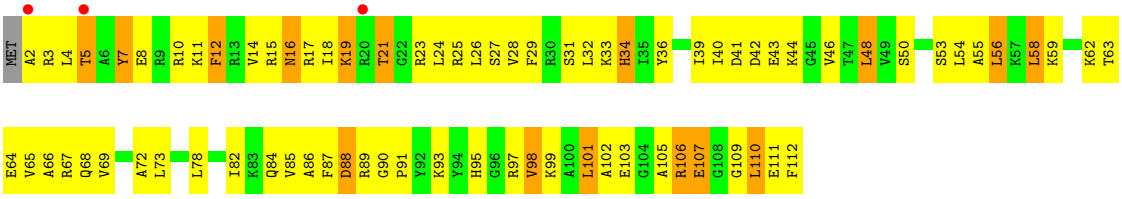
Chain A8:





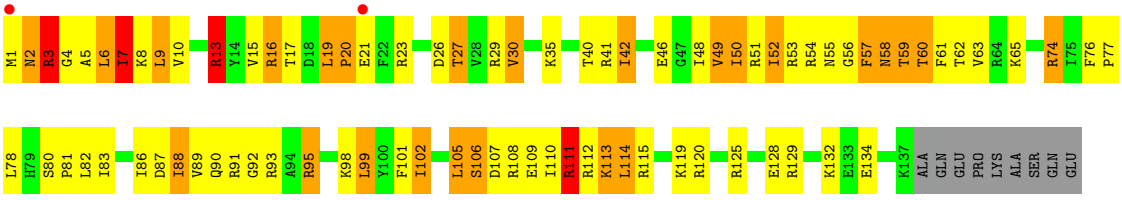
• Molecule 40: 50S ribosomal protein L18

Chain 65:



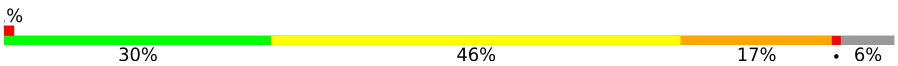
• Molecule 41: 50S ribosomal protein L19

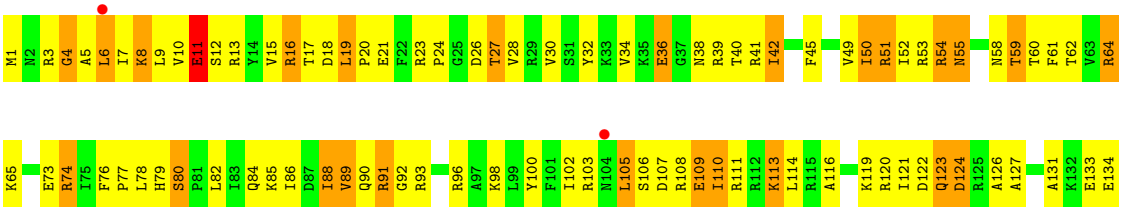
Chain B8:



• Molecule 41: 50S ribosomal protein L19

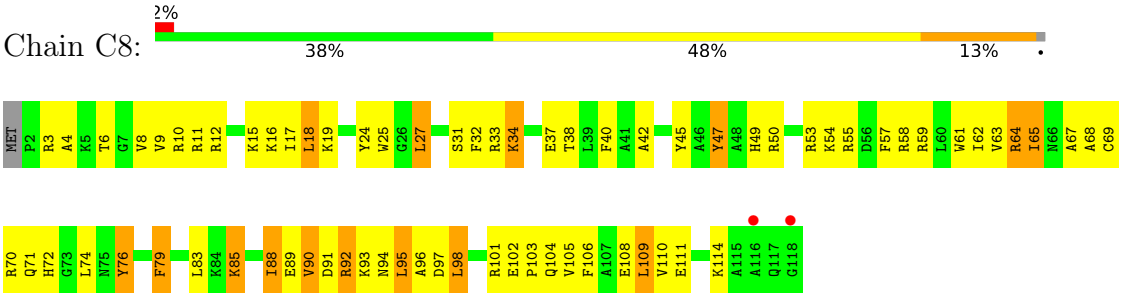
Chain 75:





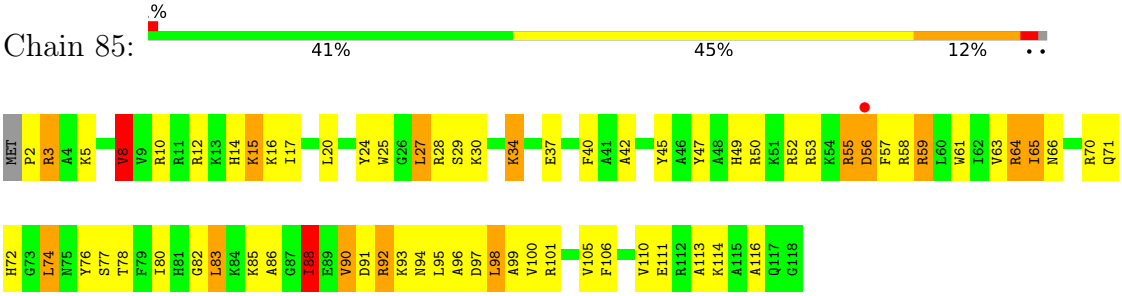
• Molecule 42: 50S ribosomal protein L20

Chain C8:



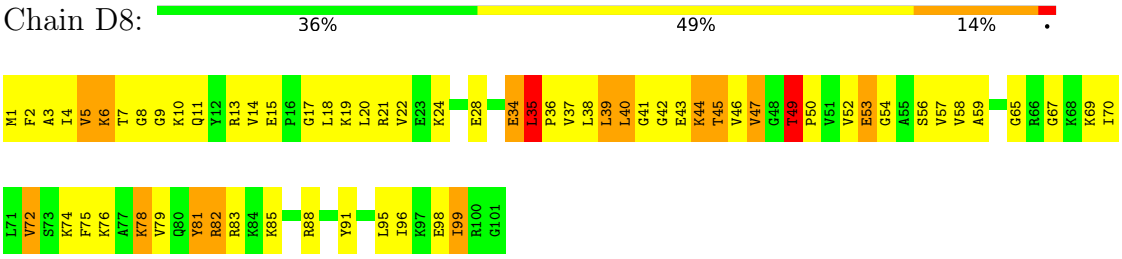
• Molecule 42: 50S ribosomal protein L20

Chain 85:



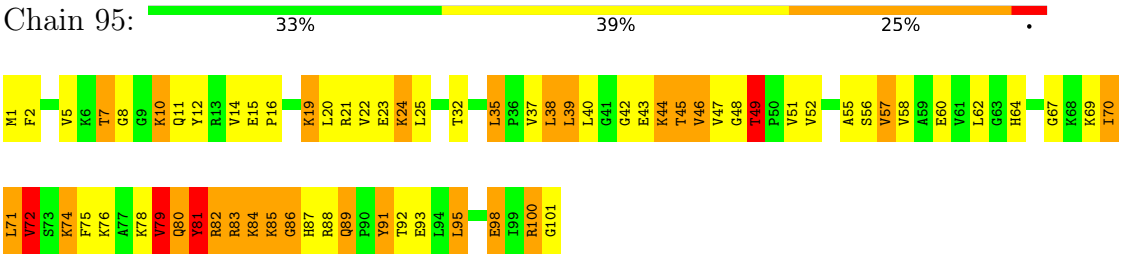
• Molecule 43: 50S ribosomal protein L21

Chain D8:



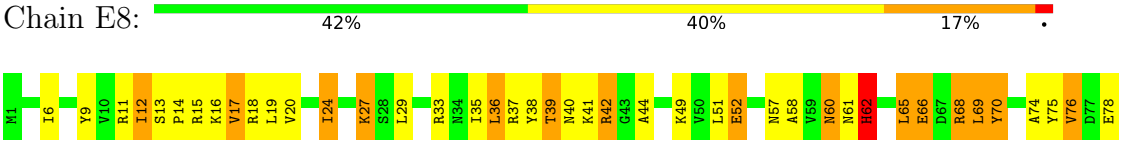
• Molecule 43: 50S ribosomal protein L21

Chain 95:



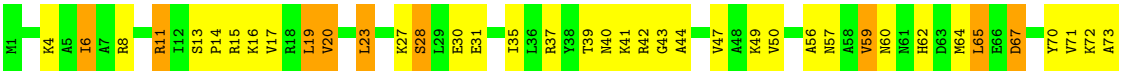
• Molecule 44: 50S ribosomal protein L22

Chain E8:



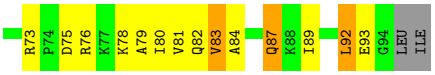
• Molecule 44: 50S ribosomal protein L22

Chain A5:



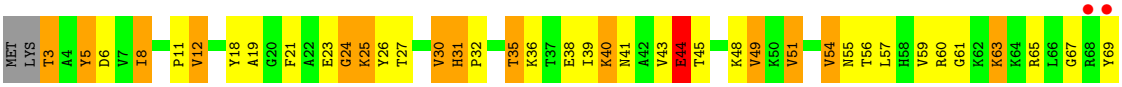
• Molecule 45: 50S ribosomal protein L23

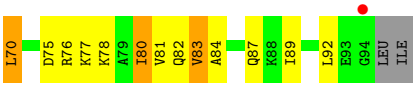
Chain F8:



• Molecule 45: 50S ribosomal protein L23

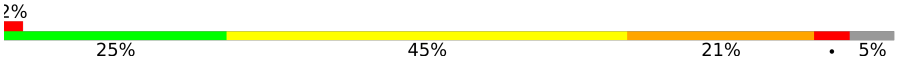
Chain B5:

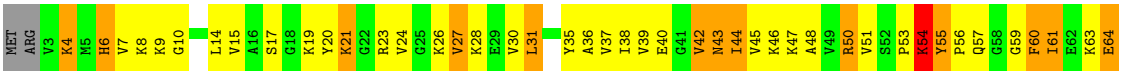




• Molecule 46: 50S ribosomal protein L24

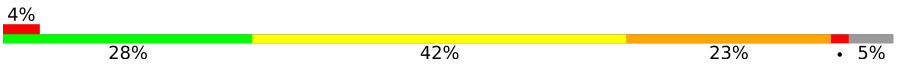
Chain G8:

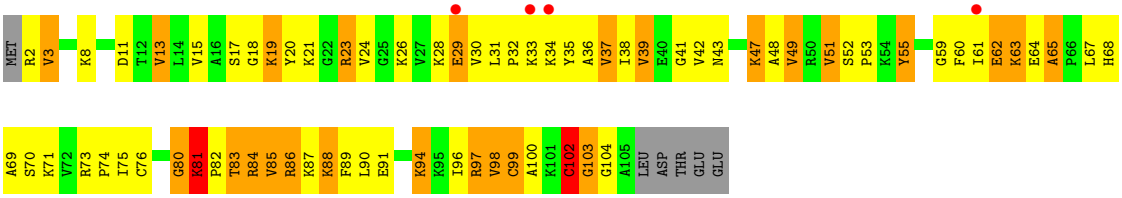




• Molecule 46: 50S ribosomal protein L24

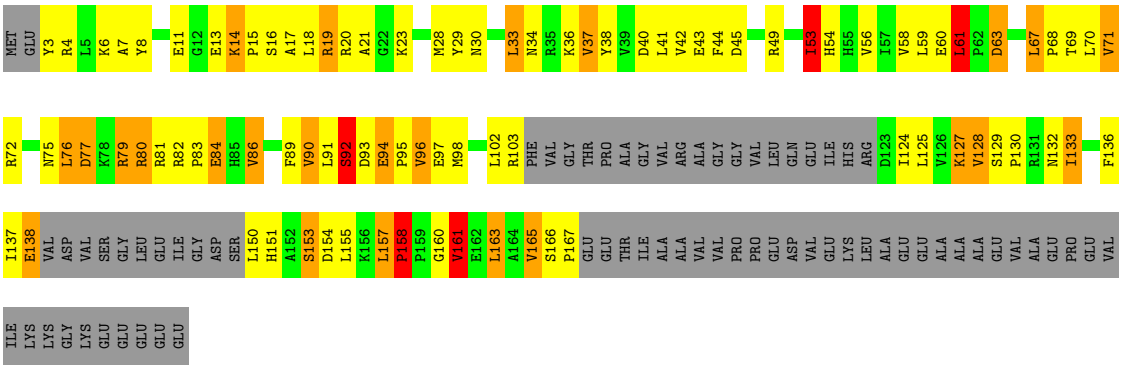
Chain C5:





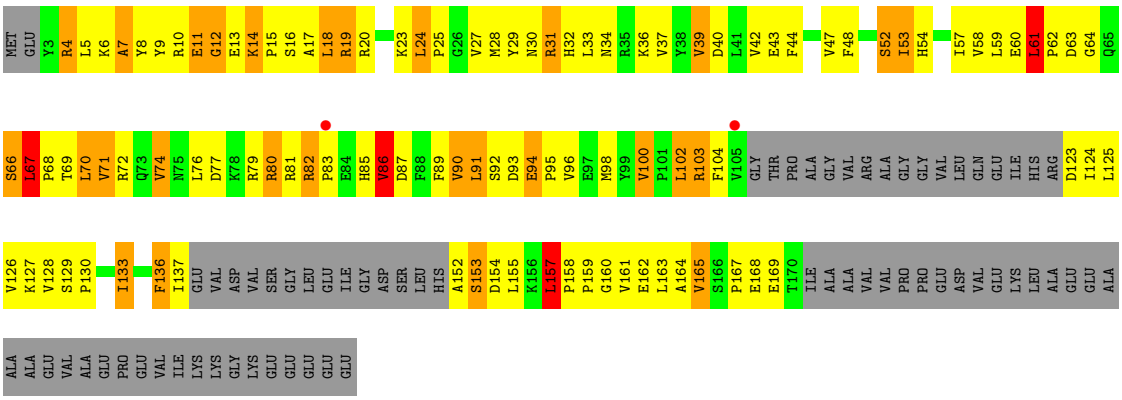
• Molecule 47: 50S ribosomal protein L25

Chain H8:



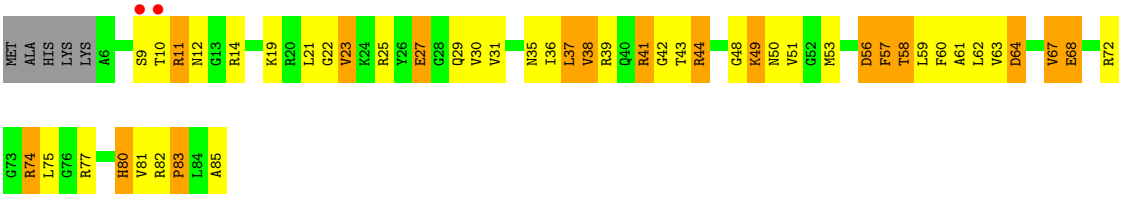
• Molecule 47: 50S ribosomal protein L25

Chain D5:



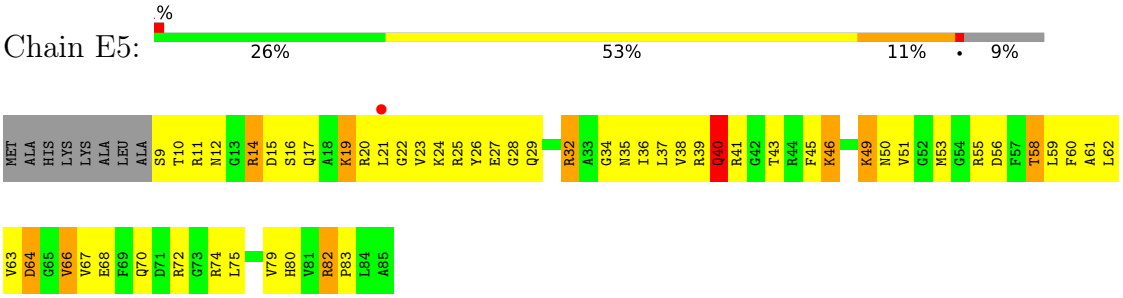
• Molecule 48: 50S ribosomal protein L27

Chain I8:



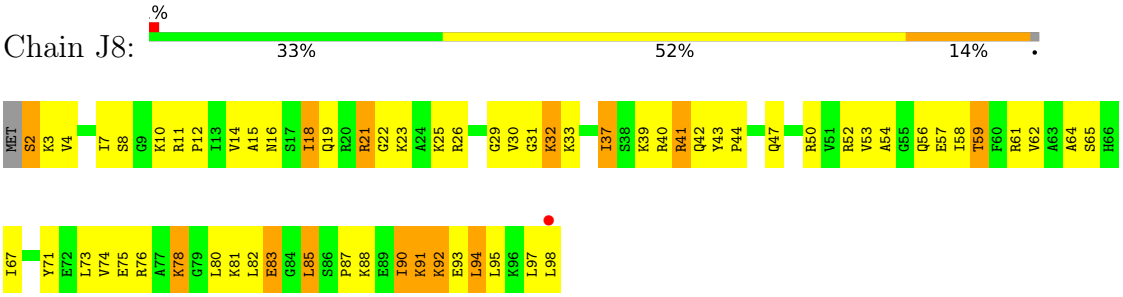
• Molecule 48: 50S ribosomal protein L27

Chain E5:



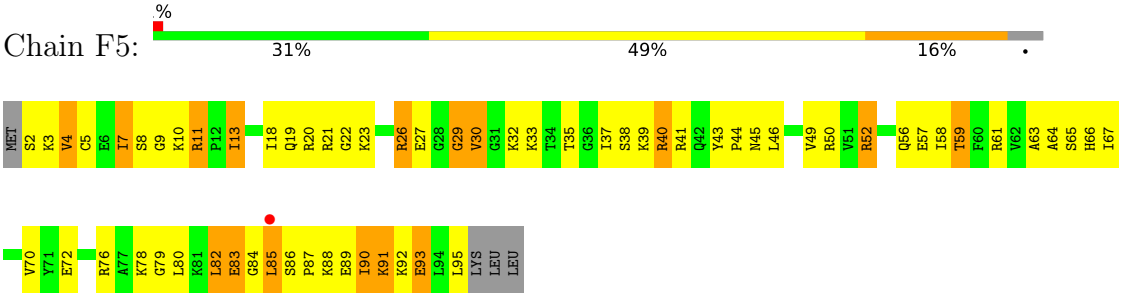
• Molecule 49: 50S ribosomal protein L28

Chain J8:



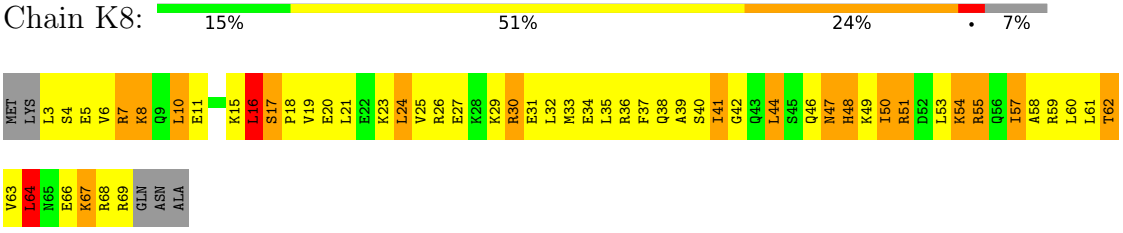
• Molecule 49: 50S ribosomal protein L28

Chain F5:



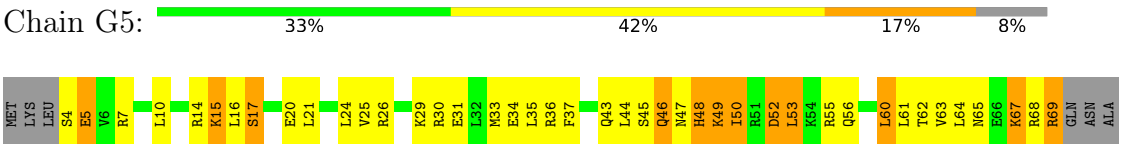
• Molecule 50: 50S ribosomal protein L29

Chain K8:



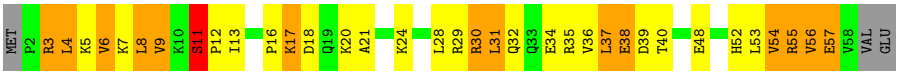
• Molecule 50: 50S ribosomal protein L29

Chain G5:



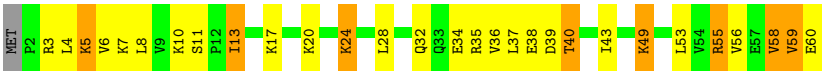
• Molecule 51: 50S ribosomal protein L30

Chain L8:



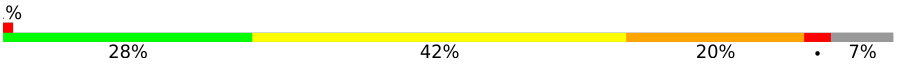
• Molecule 51: 50S ribosomal protein L30

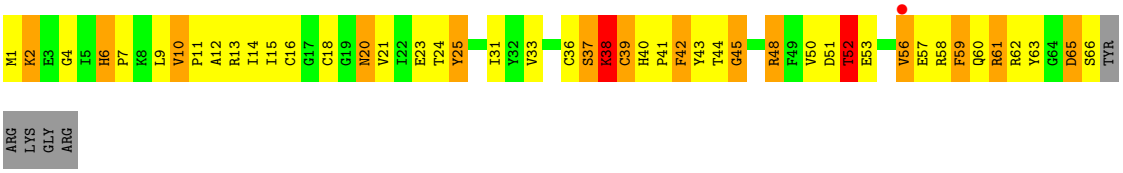
Chain H5:



• Molecule 52: 50S ribosomal protein L31

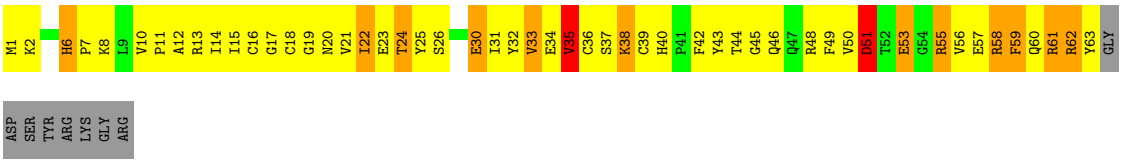
Chain M8:





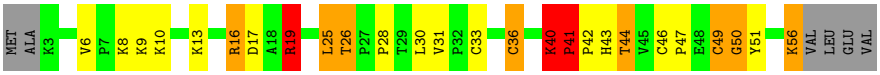
• Molecule 52: 50S ribosomal protein L31

Chain I5:



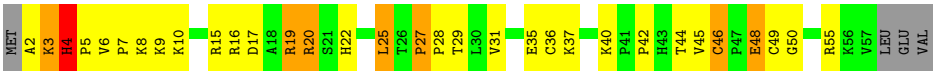
• Molecule 53: 50S ribosomal protein L32

Chain N8:



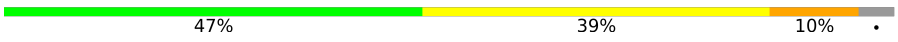
• Molecule 53: 50S ribosomal protein L32

Chain J5:



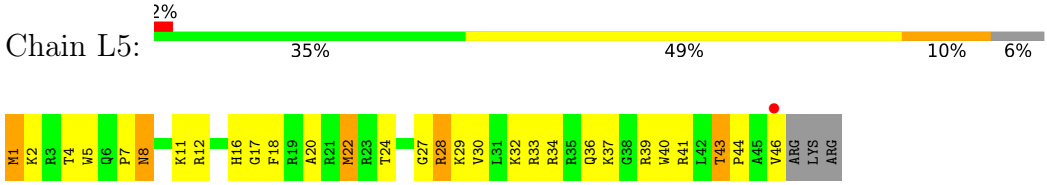
• Molecule 54: 50S ribosomal protein L34

Chain P8:



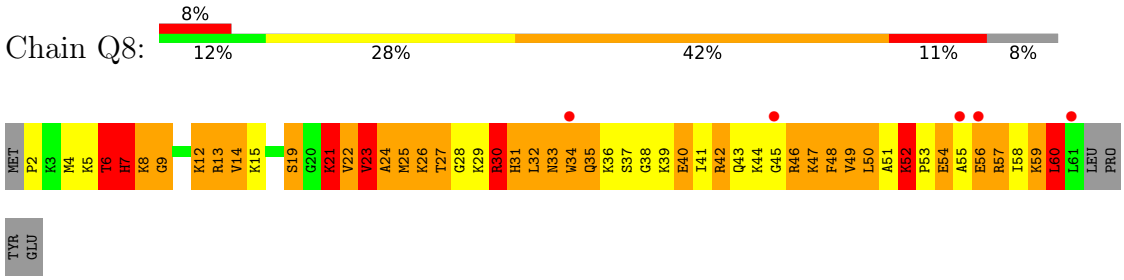
• Molecule 54: 50S ribosomal protein L34

Chain L5:



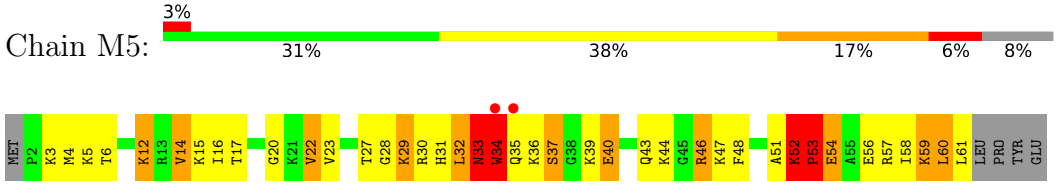
• Molecule 55: 50S ribosomal protein L35

Chain Q8:



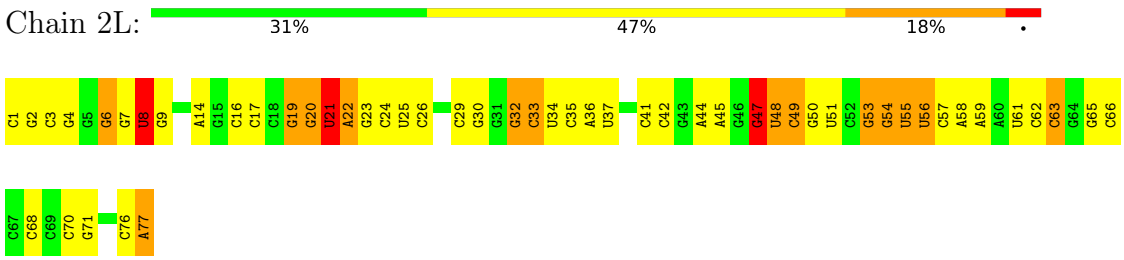
• Molecule 55: 50S ribosomal protein L35

Chain M5:



• Molecule 56: tRNA-fMet

Chain 2L:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.20Å 448.80Å 621.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	153.41 – 3.30 153.41 – 3.30	Depositor EDS
% Data completeness (in resolution range)	99.9 (153.41-3.30) 92.6 (153.41-3.30)	Depositor EDS
R_{merge}	0.46	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.96 (at 3.33Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.191 , 0.258 (Not available) , 0.230	Depositor DCC
R_{free} test set	2000 reflections (0.23%)	wwPDB-VP
Wilson B-factor (Å^2)	96.5	Xtriage
Anisotropy	0.268	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 79.2	EDS
L-test for twinning[2]	$< \|L\| > = 0.43$, $< L^2 > = 0.26$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	295920	wwPDB-VP
Average B, all atoms (Å^2)	115.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.44% 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: OMC, PSU, MIA, ZN, 5MU, 4SU, MG, 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	0/36028	0.69	11/56231 (0.0%)
1	1G	0.41	0/36025	0.64	5/56227 (0.0%)
2	12	0.59	0/1959	1.15	16/2642 (0.6%)
2	1E	0.60	0/1959	1.13	15/2642 (0.6%)
3	22	0.57	0/1636	1.07	8/2205 (0.4%)
3	2E	0.69	0/1629	1.12	4/2195 (0.2%)
4	32	0.62	0/1732	1.22	18/2318 (0.8%)
4	3E	0.69	0/1732	1.20	11/2318 (0.5%)
5	42	0.68	0/1171	1.18	6/1576 (0.4%)
5	4E	0.73	0/1171	1.11	6/1576 (0.4%)
6	52	0.68	0/855	1.10	3/1154 (0.3%)
6	5E	0.71	0/855	1.07	2/1154 (0.2%)
7	62	0.61	0/1211	1.07	3/1622 (0.2%)
7	6E	0.68	0/1275	1.04	6/1709 (0.4%)
8	72	0.61	0/1135	1.13	6/1527 (0.4%)
8	7E	0.69	0/1135	1.31	15/1527 (1.0%)
9	82	0.55	0/1028	1.06	3/1379 (0.2%)
9	8E	0.62	0/1028	1.08	1/1379 (0.1%)
10	1A	0.64	0/529	1.11	2/706 (0.3%)
10	1I	0.66	0/814	1.16	6/1095 (0.5%)
11	2A	0.66	0/879	1.17	6/1187 (0.5%)
11	2I	0.83	1/899 (0.1%)	1.30	7/1213 (0.6%)
12	3A	0.77	0/972	1.19	7/1301 (0.5%)
12	3I	0.86	0/972	1.31	10/1301 (0.8%)
13	4A	0.56	0/943	1.05	5/1265 (0.4%)
13	4I	0.69	0/943	1.11	4/1265 (0.3%)
14	5A	0.62	0/423	1.08	2/560 (0.4%)
14	5I	0.79	0/500	1.07	3/664 (0.5%)
15	6A	0.69	0/744	1.00	1/992 (0.1%)
15	6I	0.80	0/744	1.15	4/992 (0.4%)
16	7A	0.64	0/721	1.10	1/970 (0.1%)
16	7I	0.63	0/721	1.14	9/970 (0.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	8A	0.63	0/836	1.12	6/1117 (0.5%)
17	8I	0.71	0/847	1.15	5/1131 (0.4%)
18	9A	0.62	0/595	1.04	1/790 (0.1%)
18	9I	0.76	0/595	1.13	3/790 (0.4%)
19	AA	0.61	0/638	1.16	10/860 (1.2%)
19	AI	0.72	1/661 (0.2%)	1.34	9/890 (1.0%)
20	BA	0.65	0/764	1.20	6/1007 (0.6%)
20	BI	0.60	0/764	1.06	2/1007 (0.2%)
21	1B	0.71	0/192	0.99	0/252
21	1F	0.57	0/221	1.14	0/288
22	1K	0.40	0/1623	0.61	0/2521
23	2K	0.61	1/1721 (0.1%)	0.73	0/2682
24	3K	0.49	2/1669 (0.1%)	0.57	0/2599
24	3L	0.50	3/1669 (0.2%)	0.56	0/2599
25	4K	0.51	0/322	0.70	0/500
25	4L	0.56	0/222	0.73	0/344
26	14	0.53	0/69405	0.77	10/108348 (0.0%)
26	1H	0.64	0/69998	0.85	21/109276 (0.0%)
27	16	0.52	0/2928	0.80	0/4568
27	1J	0.43	0/2928	0.72	0/4568
28	71	1.00	0/749	1.27	7/1004 (0.7%)
29	11	1.10	4/2165 (0.2%)	1.43	27/2919 (0.9%)
29	19	0.96	1/2170 (0.0%)	1.46	37/2926 (1.3%)
30	21	0.90	0/1601	1.59	33/2160 (1.5%)
30	29	0.91	1/1601 (0.1%)	1.53	26/2160 (1.2%)
31	31	0.99	2/1620 (0.1%)	1.34	18/2194 (0.8%)
31	39	0.86	1/1645 (0.1%)	1.45	24/2228 (1.1%)
32	41	0.75	0/1498	1.17	9/2016 (0.4%)
32	49	0.57	0/1498	1.19	13/2016 (0.6%)
33	51	0.82	0/1362	1.44	22/1841 (1.2%)
33	59	0.71	1/1332 (0.1%)	1.44	29/1802 (1.6%)
34	61	0.79	0/1151	1.27	11/1558 (0.7%)
34	69	0.67	0/1151	1.20	15/1558 (1.0%)
35	15	0.75	0/1131	1.27	10/1525 (0.7%)
35	58	0.89	0/1131	1.38	16/1525 (1.0%)
36	25	0.85	0/942	1.23	6/1269 (0.5%)
36	68	0.94	0/942	1.26	12/1269 (0.9%)
37	35	0.87	2/1139 (0.2%)	1.48	21/1514 (1.4%)
37	78	0.94	0/1161	1.54	22/1544 (1.4%)
38	45	0.90	2/1142 (0.2%)	1.35	18/1527 (1.2%)
38	88	1.08	2/1097 (0.2%)	1.64	25/1466 (1.7%)
39	55	0.89	1/973 (0.1%)	1.23	4/1302 (0.3%)
39	98	0.88	1/981 (0.1%)	1.29	9/1312 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
40	65	0.74	1/891 (0.1%)	1.29	9/1187 (0.8%)
40	A8	0.89	0/891	1.33	9/1187 (0.8%)
41	75	0.81	0/1155	1.19	9/1542 (0.6%)
41	B8	0.91	0/1155	1.43	13/1542 (0.8%)
42	85	0.78	0/981	1.16	4/1306 (0.3%)
42	C8	1.02	2/981 (0.2%)	1.26	8/1306 (0.6%)
43	95	0.83	1/789 (0.1%)	1.33	9/1057 (0.9%)
43	D8	0.88	0/789	1.50	8/1057 (0.8%)
44	A5	0.94	0/897	1.16	4/1204 (0.3%)
44	E8	0.97	0/910	1.32	10/1220 (0.8%)
45	B5	0.92	0/739	1.30	7/993 (0.7%)
45	F8	1.05	0/756	1.43	13/1014 (1.3%)
46	C5	0.95	2/807 (0.2%)	1.57	12/1076 (1.1%)
46	G8	0.98	1/804 (0.1%)	1.52	13/1073 (1.2%)
47	D5	0.61	0/1151	1.39	22/1557 (1.4%)
47	H8	0.82	3/1135 (0.3%)	1.43	18/1535 (1.2%)
48	E5	0.85	0/620	1.27	8/827 (1.0%)
48	I8	0.98	0/634	1.36	5/847 (0.6%)
49	F5	0.81	0/744	1.35	7/989 (0.7%)
49	J8	1.01	0/769	1.40	8/1022 (0.8%)
50	G5	0.73	0/560	1.18	3/741 (0.4%)
50	K8	0.97	0/565	1.51	8/748 (1.1%)
51	H5	0.76	0/473	1.28	6/635 (0.9%)
51	L8	0.97	0/457	1.57	6/613 (1.0%)
52	I5	0.73	0/527	1.34	7/709 (1.0%)
52	M8	0.76	0/545	1.37	6/733 (0.8%)
53	J5	0.89	0/448	1.50	7/606 (1.2%)
53	N8	0.83	0/436	1.58	9/589 (1.5%)
54	L5	0.97	0/406	1.29	0/536
54	P8	1.12	0/417	1.45	6/550 (1.1%)
55	M5	1.17	2/483 (0.4%)	1.57	12/634 (1.9%)
55	Q8	1.59	6/486 (1.2%)	2.29	22/638 (3.4%)
56	2L	0.61	5/1742 (0.3%)	0.69	0/2712
All	All	0.63	49/318291 (0.0%)	0.93	981/476619 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	12	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	1E	0	2
4	32	0	3
4	3E	0	1
6	5E	0	1
9	82	0	1
10	1A	0	1
11	2A	0	1
12	3A	0	1
13	4A	0	1
13	4I	0	1
14	5A	0	1
19	AI	0	2
20	BA	0	3
29	11	0	2
29	19	0	5
30	21	0	4
30	29	0	5
31	31	0	1
31	39	0	4
32	41	0	1
32	49	0	1
33	59	0	1
34	61	0	4
34	69	0	1
35	15	0	1
36	25	0	1
37	35	0	3
37	78	0	2
38	45	0	5
38	88	0	3
39	98	0	1
40	65	0	1
40	A8	0	2
41	75	0	2
41	B8	0	2
42	85	0	3
42	C8	0	2
43	95	0	1
44	A5	0	2
45	B5	0	2
46	C5	0	3
46	G8	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
47	D5	0	2
47	H8	0	3
48	E5	0	1
48	I8	0	2
49	J8	0	1
50	G5	0	2
50	K8	0	3
52	I5	0	2
52	M8	0	1
53	N8	0	1
55	M5	0	2
55	Q8	0	7
All	All	0	116

All (49) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	2L	55	U	N1-C2	10.08	1.58	1.38
55	Q8	6	THR	CA-CB	8.64	1.66	1.53
23	2K	21	U	C5-C6	8.46	1.51	1.34
56	2L	21	U	C5-C6	8.25	1.50	1.34
24	3L	20	U	C5-C6	7.87	1.49	1.34
24	3K	16	U	C5-C6	7.85	1.49	1.34
24	3K	20	U	C5-C6	7.83	1.49	1.34
24	3L	16	U	C5-C6	7.73	1.49	1.34
39	98	38	VAL	CA-CB	-7.13	1.50	1.54
55	Q8	51	ALA	CA-C	6.94	1.62	1.52
55	Q8	31	HIS	CA-C	6.58	1.59	1.52
11	2I	126	ARG	CA-C	6.46	1.61	1.52
37	35	18	ARG	CA-C	6.44	1.60	1.53
39	55	38	VAL	CA-CB	-6.42	1.49	1.53
29	11	127	VAL	CA-CB	-6.37	1.48	1.54
29	11	85	ASP	CA-C	-6.37	1.45	1.52
55	M5	52	LYS	CA-C	6.14	1.60	1.52
37	35	61	ARG	CA-C	6.00	1.60	1.52
29	19	51	VAL	CA-CB	-5.84	1.46	1.54
40	65	88	ASP	CA-C	-5.82	1.50	1.53
38	88	79	LEU	N-CA	5.82	1.53	1.46
55	Q8	30	ARG	CA-C	5.81	1.59	1.52
38	45	82	ARG	CA-C	5.80	1.60	1.52
55	Q8	60	LEU	CA-C	5.75	1.60	1.53
29	11	240	ALA	C-O	-5.67	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	95	72	VAL	CA-CB	5.67	1.62	1.54
42	C8	65	ILE	CA-CB	-5.57	1.48	1.54
55	Q8	25	MET	CA-C	5.55	1.60	1.52
56	2L	55	U	C2-N3	5.52	1.48	1.37
56	2L	55	U	N3-C4	-5.50	1.27	1.38
30	29	137	HIS	CA-C	-5.49	1.46	1.53
42	C8	4	ALA	CA-CB	-5.46	1.46	1.53
47	H8	53	ILE	CA-CB	5.43	1.61	1.54
47	H8	165	VAL	CA-CB	5.39	1.61	1.54
31	31	73	ALA	CA-CB	-5.37	1.45	1.53
46	C5	85	VAL	CA-C	5.35	1.59	1.52
24	3L	8	4SU	O3'-P	5.32	1.61	1.56
29	11	122	ASP	CB-CG	5.24	1.65	1.52
46	C5	83	THR	CA-CB	5.19	1.60	1.53
47	H8	54	HIS	CG-ND1	5.16	1.44	1.38
55	M5	34	TRP	N-CA	5.16	1.52	1.46
19	AI	41	VAL	CA-CB	5.14	1.60	1.54
46	G8	83	THR	CA-CB	5.09	1.62	1.53
38	88	82	ARG	CA-C	5.08	1.60	1.52
31	31	129	PHE	CA-C	5.05	1.59	1.52
31	39	28	ILE	CA-CB	5.04	1.61	1.54
33	59	125	VAL	CA-C	5.02	1.58	1.52
38	45	27	VAL	CA-CB	5.00	1.61	1.54
56	2L	55	U	N1-C6	5.00	1.48	1.38

All (981) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	21	52	LEU	CA-C-N	18.03	137.49	119.82
30	21	52	LEU	C-N-CA	18.03	137.49	119.82
50	K8	17	SER	N-CA-C	17.39	123.78	108.13
29	19	235	GLY	N-CA-C	16.73	129.10	112.04
51	L8	11	SER	CA-C-N	15.04	135.51	119.87
51	L8	11	SER	C-N-CA	15.04	135.51	119.87
30	29	52	LEU	CA-C-N	15.01	135.71	119.05
30	29	52	LEU	C-N-CA	15.01	135.71	119.05
30	29	73	GLU	CA-C-N	13.14	133.29	119.89
30	29	73	GLU	C-N-CA	13.14	133.29	119.89
43	D8	35	LEU	CA-C-N	13.00	132.56	119.82
43	D8	35	LEU	C-N-CA	13.00	132.56	119.82
33	59	153	LYS	CA-C-N	-12.92	103.69	119.84
33	59	153	LYS	C-N-CA	-12.92	103.69	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	B8	4	GLY	N-CA-C	-12.80	97.15	112.64
8	7E	100	ILE	CA-C-N	12.70	133.51	119.92
8	7E	100	ILE	C-N-CA	12.70	133.51	119.92
46	C5	81	LYS	CA-C-N	12.48	133.27	119.92
46	C5	81	LYS	C-N-CA	12.48	133.27	119.92
46	C5	39	VAL	N-CA-C	12.29	124.70	112.90
43	D8	49	THR	CA-C-N	-12.14	106.34	118.97
43	D8	49	THR	C-N-CA	-12.14	106.34	118.97
53	N8	40	LYS	CA-C-N	-12.02	108.00	120.38
53	N8	40	LYS	C-N-CA	-12.02	108.00	120.38
33	51	92	ILE	N-CA-C	11.80	121.75	110.30
55	Q8	28	GLY	N-CA-C	11.77	129.55	114.25
55	Q8	49	VAL	N-CA-C	11.59	123.19	112.29
47	H8	161	VAL	N-CA-C	11.58	121.82	107.70
29	11	271	ILE	N-CA-C	11.39	122.99	112.17
53	J5	4	HIS	CA-C-N	-11.26	107.67	119.83
53	J5	4	HIS	C-N-CA	-11.26	107.67	119.83
32	41	44	GLY	N-CA-C	-11.23	100.73	114.66
11	2I	102	GLY	N-CA-C	-11.23	94.47	111.42
30	21	119	ARG	N-CA-C	-11.17	96.83	111.24
30	29	80	GLU	N-CA-C	11.11	127.05	113.38
38	88	3	MET	CA-C-N	-10.97	108.77	119.85
38	88	3	MET	C-N-CA	-10.97	108.77	119.85
43	95	49	THR	CA-C-N	-10.83	106.31	119.84
43	95	49	THR	C-N-CA	-10.83	106.31	119.84
51	H5	11	SER	CA-C-N	10.77	131.07	119.87
51	H5	11	SER	C-N-CA	10.77	131.07	119.87
37	35	62	LEU	CA-C-N	10.69	133.21	119.84
37	35	62	LEU	C-N-CA	10.69	133.21	119.84
29	19	272	ALA	N-CA-C	10.47	133.10	110.80
55	Q8	7	HIS	N-CA-C	10.42	125.39	112.47
4	32	28	SER	N-CA-C	10.37	117.47	108.13
53	N8	50	GLY	N-CA-C	10.24	125.03	112.64
33	51	125	VAL	CA-C-N	10.22	132.61	119.84
33	51	125	VAL	C-N-CA	10.22	132.61	119.84
37	35	62	LEU	N-CA-C	10.20	132.35	109.81
55	Q8	25	MET	N-CA-C	10.17	132.47	110.80
2	12	17	PHE	N-CA-C	10.15	124.84	109.41
2	1E	15	VAL	N-CA-C	9.89	124.21	113.43
5	42	23	GLY	N-CA-C	9.81	122.93	110.38
4	3E	188	LEU	CA-C-N	9.75	130.37	119.93
4	3E	188	LEU	C-N-CA	9.75	130.37	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	4E	67	VAL	N-CA-C	9.69	120.47	108.06
31	39	80	ALA	CA-C-N	-9.69	107.73	119.84
31	39	80	ALA	C-N-CA	-9.69	107.73	119.84
51	L8	9	VAL	N-CA-C	9.66	123.96	113.43
29	11	272	ALA	N-CA-C	9.65	120.63	108.19
54	P8	46	VAL	N-CA-C	9.64	122.24	108.17
31	39	67	GLN	CA-C-N	-9.61	111.00	122.44
31	39	67	GLN	C-N-CA	-9.61	111.00	122.44
34	61	144	VAL	N-CA-C	9.59	121.00	108.35
30	29	88	GLY	N-CA-C	9.45	126.96	110.80
20	BA	12	ALA	N-CA-C	-9.30	101.46	113.17
4	32	171	GLY	CA-C-N	9.28	129.02	119.56
4	32	171	GLY	C-N-CA	9.28	129.02	119.56
35	15	85	ILE	CA-C-N	9.24	129.36	120.31
35	15	85	ILE	C-N-CA	9.24	129.36	120.31
19	AI	25	LYS	N-CA-C	-9.22	91.17	110.80
49	F5	29	GLY	N-CA-C	9.21	122.86	110.43
33	51	167	GLU	CA-C-N	-9.20	108.34	119.84
33	51	167	GLU	C-N-CA	-9.20	108.34	119.84
46	G8	92	ASN	N-CA-C	9.13	121.94	108.60
38	88	21	THR	N-CA-C	9.04	120.63	107.88
38	88	82	ARG	N-CA-C	9.04	132.00	113.20
47	D5	67	LEU	CA-C-N	9.02	131.11	119.84
47	D5	67	LEU	C-N-CA	9.02	131.11	119.84
38	45	82	ARG	N-CA-C	8.94	128.01	113.89
47	D5	100	VAL	CA-C-N	8.93	128.78	120.21
47	D5	100	VAL	C-N-CA	8.93	128.78	120.21
47	H8	67	LEU	CA-C-N	8.90	130.97	119.84
47	H8	67	LEU	C-N-CA	8.90	130.97	119.84
46	C5	82	PRO	N-CA-C	8.89	125.12	111.34
37	78	9	ASN	CA-C-N	8.88	130.94	119.84
37	78	9	ASN	C-N-CA	8.88	130.94	119.84
55	Q8	13	ARG	N-CA-C	8.82	125.13	113.30
55	Q8	22	VAL	N-CA-C	8.81	120.81	108.12
2	12	25	ASN	CA-C-N	8.76	128.40	119.82
2	12	25	ASN	C-N-CA	8.76	128.40	119.82
31	39	170	LEU	CA-C-N	8.75	128.39	118.85
31	39	170	LEU	C-N-CA	8.75	128.39	118.85
38	88	106	VAL	CB-CA-C	-8.74	101.66	111.45
53	N8	41	PRO	CA-C-N	8.74	130.76	119.84
53	N8	41	PRO	C-N-CA	8.74	130.76	119.84
55	Q8	30	ARG	N-CA-C	8.65	122.76	107.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	51	11	VAL	N-CA-C	8.64	118.77	109.01
30	21	58	ARG	N-CA-C	-8.62	102.31	113.17
34	69	7	GLU	CA-C-N	-8.61	111.01	120.14
34	69	7	GLU	C-N-CA	-8.61	111.01	120.14
28	71	225	ASN	CA-C-N	8.60	128.30	119.19
28	71	225	ASN	C-N-CA	8.60	128.30	119.19
47	D5	14	LYS	CA-C-N	8.58	129.43	119.47
47	D5	14	LYS	C-N-CA	8.58	129.43	119.47
31	31	80	ALA	CA-C-N	8.51	128.15	119.56
31	31	80	ALA	C-N-CA	8.51	128.15	119.56
41	B8	113	LYS	N-CA-C	-8.49	101.38	112.68
3	2E	108	ASN	CA-C-N	8.47	128.09	118.85
3	2E	108	ASN	C-N-CA	8.47	128.09	118.85
19	AI	75	ALA	CA-C-N	8.45	128.38	119.85
19	AI	75	ALA	C-N-CA	8.45	128.38	119.85
46	G8	81	LYS	N-CA-C	-8.44	91.15	109.81
33	51	11	VAL	CA-C-N	8.37	130.31	119.84
33	51	11	VAL	C-N-CA	8.37	130.31	119.84
47	H8	161	VAL	CB-CA-C	-8.37	103.88	111.74
55	Q8	52	LYS	C-N-CD	-8.27	102.40	120.60
30	21	188	VAL	N-CA-C	8.27	116.71	109.02
49	J8	22	GLY	N-CA-C	8.24	120.45	112.04
33	59	117	PRO	CA-C-N	8.24	130.14	119.84
33	59	117	PRO	C-N-CA	8.24	130.14	119.84
35	15	10	GLU	CA-C-N	8.23	128.16	119.85
35	15	10	GLU	C-N-CA	8.23	128.16	119.85
33	59	111	HIS	CA-C-N	8.21	128.26	119.89
33	59	111	HIS	C-N-CA	8.21	128.26	119.89
35	58	24	GLY	N-CA-C	-8.20	102.27	112.77
55	Q8	21	LYS	N-CA-C	8.17	121.93	107.80
4	3E	32	ALA	N-CA-C	-8.11	93.52	110.80
40	A8	71	ARG	N-CA-C	-8.09	102.41	111.71
14	5I	28	GLY	N-CA-C	-8.08	103.84	115.64
38	88	65	PHE	N-CA-C	8.08	124.22	113.72
11	2A	114	VAL	CA-C-N	-8.07	112.13	120.85
11	2A	114	VAL	C-N-CA	-8.07	112.13	120.85
41	75	38	ASN	N-CA-C	-8.04	103.38	113.02
30	21	61	ARG	CA-C-N	-8.03	110.36	120.23
30	21	61	ARG	C-N-CA	-8.03	110.36	120.23
52	M8	51	ASP	N-CA-C	8.02	120.67	110.24
38	88	125	LEU	CA-C-N	7.99	127.65	119.82
38	88	125	LEU	C-N-CA	7.99	127.65	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	J5	27	PRO	O-C-N	7.96	124.89	121.15
55	Q8	60	LEU	N-CA-C	7.96	122.37	111.39
47	D5	61	LEU	CA-C-N	7.95	129.78	119.84
47	D5	61	LEU	C-N-CA	7.95	129.78	119.84
41	B8	19	LEU	CA-C-N	7.95	128.41	119.83
41	B8	19	LEU	C-N-CA	7.95	128.41	119.83
37	78	55	ARG	CA-C-N	-7.94	111.01	122.77
37	78	55	ARG	C-N-CA	-7.94	111.01	122.77
33	59	130	ARG	CB-CA-C	-7.90	106.39	115.79
44	E8	62	HIS	N-CA-C	-7.89	97.41	109.95
46	G8	93	GLY	CA-C-O	-7.85	116.81	122.23
55	Q8	52	LYS	CA-C-N	7.85	145.84	127.00
55	Q8	52	LYS	C-N-CA	7.85	145.84	127.00
48	E5	22	GLY	N-CA-C	7.85	123.28	112.52
35	58	98	VAL	N-CA-C	-7.84	100.93	111.44
46	C5	86	ARG	N-CA-C	7.80	121.08	110.55
47	D5	82	ARG	CA-C-N	7.78	128.07	119.90
47	D5	82	ARG	C-N-CA	7.78	128.07	119.90
30	29	48	GLN	N-CA-C	7.76	121.62	112.93
55	M5	33	ASN	N-CA-C	7.74	121.80	108.02
46	G8	79	CYS	N-CA-C	7.72	127.24	110.80
30	29	67	PHE	N-CA-C	-7.71	102.88	111.82
4	32	6	GLY	CA-C-N	7.68	129.45	119.84
4	32	6	GLY	C-N-CA	7.68	129.45	119.84
33	59	124	GLU	N-CA-C	7.68	122.28	108.69
31	39	29	ASN	CA-C-N	7.67	129.43	119.84
31	39	29	ASN	C-N-CA	7.67	129.43	119.84
32	49	178	PHE	CA-C-N	7.66	127.62	120.03
32	49	178	PHE	C-N-CA	7.66	127.62	120.03
6	52	55	ASP	CA-C-N	7.65	127.29	119.56
6	52	55	ASP	C-N-CA	7.65	127.29	119.56
32	49	121	ASN	CA-C-N	7.59	127.76	119.87
32	49	121	ASN	C-N-CA	7.59	127.76	119.87
20	BI	9	ASN	N-CA-C	7.57	120.38	108.79
37	78	116	GLY	N-CA-C	7.56	125.36	110.77
33	59	90	LYS	N-CA-C	7.54	120.79	109.25
8	7E	56	LYS	CA-C-N	7.53	129.26	119.84
8	7E	56	LYS	C-N-CA	7.53	129.26	119.84
37	78	15	ARG	N-CA-C	7.50	119.99	110.24
31	31	101	LEU	CA-C-N	-7.49	112.27	119.76
31	31	101	LEU	C-N-CA	-7.49	112.27	119.76
46	G8	81	LYS	CA-C-N	7.48	144.95	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	G8	81	LYS	C-N-CA	7.48	144.95	127.00
43	95	80	GLN	N-CA-C	7.47	119.04	108.74
45	B5	40	LYS	CA-C-N	-7.41	111.05	122.16
45	B5	40	LYS	C-N-CA	-7.41	111.05	122.16
41	B8	7	ILE	N-CA-C	-7.38	103.49	110.42
30	29	87	GLU	CA-C-N	-7.37	112.39	121.38
30	29	87	GLU	C-N-CA	-7.37	112.39	121.38
37	35	111	ARG	N-CA-C	7.36	120.48	110.55
47	H8	133	ILE	CA-C-N	7.36	129.04	119.84
47	H8	133	ILE	C-N-CA	7.36	129.04	119.84
3	22	78	GLY	N-CA-C	-7.34	101.07	112.45
55	Q8	23	VAL	N-CA-C	7.33	119.80	108.44
43	95	39	LEU	N-CA-C	-7.33	104.34	113.28
31	39	68	LYS	CA-C-N	-7.32	112.46	122.86
31	39	68	LYS	C-N-CA	-7.32	112.46	122.86
37	35	65	ARG	N-CA-C	-7.32	99.05	109.96
2	1E	25	ASN	CA-C-N	7.32	126.95	119.56
2	1E	25	ASN	C-N-CA	7.32	126.95	119.56
37	78	53	GLY	N-CA-C	-7.31	104.96	115.64
37	35	9	ASN	CA-C-N	7.31	126.99	119.82
37	35	9	ASN	C-N-CA	7.31	126.99	119.82
40	65	88	ASP	O-C-N	7.31	126.95	121.47
45	B5	25	LYS	N-CA-C	7.31	120.18	108.41
37	35	71	VAL	CA-C-N	-7.31	112.18	119.56
37	35	71	VAL	C-N-CA	-7.31	112.18	119.56
40	65	56	LEU	N-CA-C	-7.30	104.40	113.38
30	21	134	ILE	N-CA-C	7.29	119.14	112.29
41	B8	13	ARG	N-CA-C	-7.27	104.00	113.17
40	A8	5	THR	N-CA-C	7.27	119.95	110.43
45	F8	5	TYR	N-CA-C	-7.26	104.15	113.16
29	19	236	GLY	CA-C-O	7.24	127.63	119.59
30	21	201	THR	N-CA-C	7.23	119.31	110.41
2	12	126	GLU	N-CA-C	-7.23	104.34	113.02
37	78	25	SER	N-CA-C	-7.21	104.36	113.01
28	71	47	LEU	N-CA-C	7.20	121.24	109.72
29	19	154	LYS	N-CA-C	7.20	122.24	113.38
9	82	17	VAL	N-CA-C	7.20	118.02	107.37
30	21	31	CYS	CA-C-N	7.19	128.83	119.84
30	21	31	CYS	C-N-CA	7.19	128.83	119.84
52	I5	20	ASN	N-CA-C	7.19	117.47	108.19
15	6I	87	ILE	N-CA-C	7.19	124.29	109.34
38	88	106	VAL	N-CA-C	7.18	118.33	110.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	1A	52	GLY	CA-C-N	7.18	126.67	118.85
10	1A	52	GLY	C-N-CA	7.18	126.67	118.85
31	31	135	LYS	N-CA-C	-7.16	97.28	109.24
50	K8	8	LYS	N-CA-C	-7.16	100.61	111.56
7	62	133	GLY	N-CA-C	-7.14	103.15	113.86
4	3E	151	LYS	N-CA-C	-7.13	103.45	111.07
35	58	78	TYR	CA-C-N	-7.13	112.59	120.14
35	58	78	TYR	C-N-CA	-7.13	112.59	120.14
5	4E	103	GLY	N-CA-C	-7.11	103.02	112.82
13	4I	7	VAL	N-CA-C	-7.11	104.80	111.48
38	45	25	ASP	N-CA-C	7.10	119.22	110.91
50	G5	44	LEU	N-CA-C	-7.10	103.78	113.30
12	3A	43	VAL	N-CA-C	7.10	120.31	108.81
3	22	143	GLU	N-CA-C	-7.09	104.37	113.16
4	3E	153	ARG	N-CA-C	-7.08	104.64	113.28
1	13	422	C	C2'-C3'-O3'	7.08	120.12	109.50
33	51	170	ARG	N-CA-C	7.07	118.92	108.60
14	5A	53	LEU	CA-C-N	7.07	127.47	119.83
14	5A	53	LEU	C-N-CA	7.07	127.47	119.83
15	6A	47	LYS	N-CA-C	-7.05	104.29	113.17
31	39	93	LYS	CA-C-N	-7.04	112.50	119.90
31	39	93	LYS	C-N-CA	-7.04	112.50	119.90
8	7E	75	ARG	CA-C-N	7.03	127.44	119.92
8	7E	75	ARG	C-N-CA	7.03	127.44	119.92
39	98	9	LYS	CA-C-N	-7.03	113.08	122.85
39	98	9	LYS	C-N-CA	-7.03	113.08	122.85
31	31	93	LYS	CA-C-N	-7.02	112.53	119.90
31	31	93	LYS	C-N-CA	-7.02	112.53	119.90
2	12	20	GLU	N-CA-C	7.00	119.77	110.53
41	75	13	ARG	N-CA-C	-7.00	104.56	113.23
38	45	72	LYS	CA-C-N	6.99	127.24	119.90
38	45	72	LYS	C-N-CA	6.99	127.24	119.90
31	39	106	ARG	N-CA-C	-6.96	103.62	111.14
1	13	687	A	P-O3'-C3'	6.95	130.62	120.20
47	H8	157	LEU	CB-CA-C	-6.93	106.28	111.20
40	A8	110	LEU	N-CA-C	6.93	125.56	110.80
19	AI	54	GLY	N-CA-C	-6.91	106.47	114.69
19	AA	82	GLY	N-CA-C	6.91	129.54	113.18
41	75	80	SER	CA-C-N	6.90	127.19	119.32
41	75	80	SER	C-N-CA	6.90	127.19	119.32
31	39	147	GLY	N-CA-C	-6.89	105.36	115.63
41	B8	111	ARG	N-CA-C	-6.89	101.25	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	H8	61	LEU	CA-C-N	6.88	128.44	119.84
47	H8	61	LEU	C-N-CA	6.88	128.44	119.84
31	31	134	GLY	N-CA-C	6.87	121.69	110.97
35	58	7	LYS	N-CA-C	-6.86	99.81	110.17
30	29	131	ALA	N-CA-C	6.86	121.26	112.34
33	59	167	GLU	CA-C-N	6.86	128.42	119.84
33	59	167	GLU	C-N-CA	6.86	128.42	119.84
12	3A	109	GLY	N-CA-C	-6.86	102.11	113.02
30	21	69	LYS	N-CA-C	-6.86	104.79	113.02
29	19	244	ARG	CA-C-N	-6.86	113.32	120.38
29	19	244	ARG	C-N-CA	-6.86	113.32	120.38
38	88	78	PRO	N-CA-C	6.85	122.82	113.98
29	11	223	GLY	N-CA-C	-6.84	104.56	112.50
36	68	118	ALA	CA-C-N	6.84	127.41	119.47
36	68	118	ALA	C-N-CA	6.84	127.41	119.47
34	69	118	LYS	CA-C-N	-6.83	113.65	120.21
34	69	118	LYS	C-N-CA	-6.83	113.65	120.21
49	F5	22	GLY	N-CA-C	6.83	120.44	111.70
16	7I	20	VAL	N-CA-C	6.83	118.55	108.45
48	I8	22	GLY	N-CA-C	6.82	119.11	110.38
5	4E	105	VAL	CA-C-N	-6.82	112.67	119.56
5	4E	105	VAL	C-N-CA	-6.82	112.67	119.56
50	K8	17	SER	N-CA-CB	-6.80	104.87	111.27
55	M5	23	VAL	N-CA-C	6.80	117.84	107.77
37	78	98	GLU	N-CA-C	-6.79	102.83	112.13
35	58	39	ARG	CA-C-N	-6.75	111.40	119.84
35	58	39	ARG	C-N-CA	-6.75	111.40	119.84
31	39	80	ALA	N-CA-C	-6.75	101.32	110.36
19	AA	75	ALA	CA-C-N	6.71	126.47	119.76
19	AA	75	ALA	C-N-CA	6.71	126.47	119.76
46	G8	98	VAL	N-CA-C	-6.70	106.20	112.83
47	H8	29	TYR	N-CA-C	6.67	117.38	108.38
47	D5	157	LEU	CA-C-N	6.64	127.22	120.38
47	D5	157	LEU	C-N-CA	6.64	127.22	120.38
52	M8	52	THR	N-CA-C	6.63	118.73	109.31
1	13	1498	U	C2'-C3'-O3'	6.62	119.44	109.50
28	71	224	ILE	N-CA-C	6.62	118.25	108.65
29	11	145	VAL	N-CA-C	6.62	118.11	108.58
30	21	141	ILE	N-CA-C	6.62	119.38	112.83
33	51	4	ILE	N-CA-C	6.62	120.23	109.78
54	P8	18	PHE	N-CA-C	6.61	118.14	111.07
33	59	50	VAL	N-CA-C	6.61	117.07	108.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	69	102	SER	N-CA-C	-6.60	96.75	110.80
12	3I	90	VAL	N-CA-C	6.59	116.72	110.53
41	B8	6	LEU	CA-C-N	-6.58	112.69	120.72
41	B8	6	LEU	C-N-CA	-6.58	112.69	120.72
8	72	73	ASP	CA-C-N	6.58	128.07	119.84
8	72	73	ASP	C-N-CA	6.58	128.07	119.84
33	59	89	ILE	N-CA-C	6.58	118.48	112.29
29	19	227	ASN	CA-C-N	-6.57	112.05	119.28
29	19	227	ASN	C-N-CA	-6.57	112.05	119.28
16	7I	5	ARG	N-CA-C	6.57	116.92	108.24
38	45	134	ARG	N-CA-C	6.57	124.79	110.80
41	B8	114	LEU	N-CA-C	6.56	120.27	112.93
40	65	34	HIS	N-CA-C	6.55	119.12	109.69
18	9I	19	LYS	N-CA-C	6.55	120.02	109.02
30	29	51	PHE	N-CA-C	6.55	124.74	110.80
55	M5	52	LYS	CA-C-N	-6.55	111.41	120.25
55	M5	52	LYS	C-N-CA	-6.55	111.41	120.25
17	8I	79	SER	N-CA-C	6.54	119.51	110.35
4	3E	12	CYS	N-CA-C	-6.54	100.59	111.37
48	I8	35	ASN	CA-C-N	-6.53	114.63	123.12
48	I8	35	ASN	C-N-CA	-6.53	114.63	123.12
40	65	7	TYR	N-CA-C	-6.53	104.08	111.07
37	35	19	VAL	N-CA-C	6.52	116.95	108.35
29	11	75	ILE	CA-C-N	-6.51	111.70	119.84
29	11	75	ILE	C-N-CA	-6.51	111.70	119.84
45	F8	83	VAL	N-CA-C	-6.51	102.95	110.05
4	3E	171	GLY	CA-C-N	6.50	127.01	119.47
4	3E	171	GLY	C-N-CA	6.50	127.01	119.47
38	88	29	PHE	N-CA-C	6.50	121.26	112.88
35	58	61	ARG	N-CA-C	-6.49	99.59	109.85
29	19	118	VAL	N-CA-C	6.49	115.62	107.70
47	H8	158	PRO	CA-C-N	6.49	125.99	119.24
47	H8	158	PRO	C-N-CA	6.49	125.99	119.24
55	Q8	6	THR	CB-CA-C	-6.47	99.21	111.06
30	21	23	VAL	N-CA-C	6.47	118.01	109.21
29	19	272	ALA	CA-C-N	6.47	133.90	121.54
29	19	272	ALA	C-N-CA	6.47	133.90	121.54
26	1H	138	G	N9-C1'-C2'	6.47	121.70	112.00
4	32	8	VAL	N-CA-C	6.46	117.56	111.48
52	I5	35	VAL	N-CA-C	-6.46	100.31	108.84
4	32	38	TYR	CA-C-N	6.46	127.03	120.38
4	32	38	TYR	C-N-CA	6.46	127.03	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	45	118	LEU	N-CA-C	-6.45	104.45	112.90
40	65	5	THR	N-CA-C	6.44	119.25	110.55
10	1I	44	VAL	N-CA-C	6.44	116.90	107.37
34	69	110	ASP	CA-C-N	6.43	127.88	119.84
34	69	110	ASP	C-N-CA	6.43	127.88	119.84
47	D5	12	GLY	N-CA-C	6.42	120.66	112.83
4	32	34	GLU	N-CA-C	-6.40	105.05	112.86
38	45	66	ILE	N-CA-C	6.40	117.50	111.48
29	19	13	ARG	N-CA-C	-6.40	103.56	112.45
20	BA	74	LYS	CB-CA-C	-6.38	109.20	116.54
30	21	102	VAL	N-CA-C	6.37	118.11	108.80
41	B8	57	PHE	N-CA-C	-6.37	102.12	110.53
35	58	136	GLU	N-CA-C	6.36	118.34	109.31
29	11	63	ARG	CA-C-N	-6.36	112.98	122.01
29	11	63	ARG	C-N-CA	-6.36	112.98	122.01
32	49	15	VAL	N-CA-C	6.36	116.99	110.82
44	E8	60	ASN	N-CA-C	6.35	120.87	113.18
42	C8	72	HIS	N-CA-C	-6.35	105.40	113.02
40	65	58	LEU	N-CA-C	6.35	116.66	108.34
29	19	135	PHE	CA-C-N	-6.35	117.20	123.04
29	19	135	PHE	C-N-CA	-6.35	117.20	123.04
52	M8	45	GLY	N-CA-C	-6.35	98.14	113.18
29	11	66	ASP	N-CA-C	6.34	118.62	108.41
43	D8	15	GLU	CA-C-N	-6.34	113.42	120.14
43	D8	15	GLU	C-N-CA	-6.34	113.42	120.14
35	15	46	VAL	N-CA-C	6.33	120.33	113.43
33	51	84	SER	CB-CA-C	-6.33	109.29	116.63
36	25	9	GLU	N-CA-C	-6.33	100.47	109.96
47	D5	133	ILE	CA-C-N	6.33	126.67	119.83
47	D5	133	ILE	C-N-CA	6.33	126.67	119.83
26	1H	752	A	C2'-C3'-O3'	6.33	118.99	109.50
29	19	245	PRO	CA-C-N	6.32	126.27	119.76
29	19	245	PRO	C-N-CA	6.32	126.27	119.76
55	Q8	40	GLU	CA-C-N	-6.32	112.67	122.09
55	Q8	40	GLU	C-N-CA	-6.32	112.67	122.09
46	G8	60	PHE	N-CA-C	6.32	119.26	108.02
50	K8	16	LEU	CA-C-N	-6.32	112.58	122.56
50	K8	16	LEU	C-N-CA	-6.32	112.58	122.56
35	15	35	ARG	N-CA-C	-6.32	101.13	110.48
7	6E	83	ALA	N-CA-C	6.31	118.67	110.53
26	1H	945	A	C4-N9-C1'	6.31	145.22	126.30
38	45	3	MET	CA-C-N	6.30	126.32	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	45	3	MET	C-N-CA	6.30	126.32	119.89
45	F8	3	THR	CA-C-N	6.29	133.02	121.70
45	F8	3	THR	C-N-CA	6.29	133.02	121.70
33	59	113	VAL	N-CA-C	6.29	117.65	108.53
26	1H	2712	U	C2-N1-C1'	6.28	136.53	117.70
31	39	83	PHE	N-CA-C	6.28	120.64	112.92
28	71	180	PHE	CA-C-N	-6.27	115.14	119.66
28	71	180	PHE	C-N-CA	-6.27	115.14	119.66
39	98	83	ILE	CB-CA-C	-6.27	106.38	111.71
11	2I	34	ASP	CA-C-N	-6.27	113.35	119.87
11	2I	34	ASP	C-N-CA	-6.27	113.35	119.87
4	32	85	LYS	N-CA-C	-6.26	97.86	108.26
51	L8	54	VAL	N-CA-C	6.26	122.35	109.34
31	39	186	ILE	N-CA-C	6.25	116.40	110.53
26	1H	945	A	O4'-C1'-N9	6.24	117.56	108.20
33	51	82	GLY	N-CA-C	6.24	127.96	113.18
41	B8	20	PRO	CA-C-O	-6.24	114.56	121.23
13	4A	112	GLY	CA-C-N	6.23	126.19	120.21
13	4A	112	GLY	C-N-CA	6.23	126.19	120.21
43	95	82	ARG	N-CA-C	6.22	119.39	108.75
38	88	58	PHE	N-CA-C	6.22	120.70	107.70
2	1E	90	MET	CA-C-N	6.21	126.13	119.85
2	1E	90	MET	C-N-CA	6.21	126.13	119.85
34	69	83	ALA	N-CA-C	6.21	118.39	109.14
12	3I	18	VAL	N-CA-C	6.20	121.11	112.50
30	21	120	TRP	N-CA-C	6.19	120.54	112.92
46	G8	99	CYS	N-CA-C	6.17	118.80	111.33
4	32	125	HIS	N-CA-C	-6.17	105.24	112.89
31	39	85	GLY	N-CA-C	-6.17	105.06	115.80
33	59	130	ARG	N-CA-C	6.17	120.68	109.32
38	45	104	PHE	N-CA-C	6.17	123.95	110.80
38	45	66	ILE	CB-CA-C	-6.17	106.47	111.71
29	19	31	LYS	N-CA-C	-6.16	101.98	110.35
53	J5	46	CYS	CA-C-N	6.15	125.85	119.82
53	J5	46	CYS	C-N-CA	6.15	125.85	119.82
30	21	184	VAL	CA-C-N	-6.14	113.85	123.13
30	21	184	VAL	C-N-CA	-6.14	113.85	123.13
31	31	75	HIS	N-CA-C	6.13	118.10	108.96
1	13	792	A	N9-C1'-C2'	6.13	123.19	114.00
1	1G	1498	U	C2'-C3'-O3'	6.12	118.68	109.50
30	29	166	THR	CA-C-N	-6.12	115.60	123.19
30	29	166	THR	C-N-CA	-6.12	115.60	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	69	131	LYS	CA-C-N	6.12	141.69	127.00
34	69	131	LYS	C-N-CA	6.12	141.69	127.00
13	4I	84	ILE	N-CA-C	-6.12	103.44	111.09
37	78	35	HIS	N-CA-C	6.12	123.83	110.80
37	35	21	ARG	N-CA-C	6.12	123.83	110.80
38	45	98	LYS	CA-C-N	-6.09	113.70	119.85
38	45	98	LYS	C-N-CA	-6.09	113.70	119.85
19	AA	25	LYS	CB-CA-C	-6.09	109.56	116.63
55	M5	34	TRP	N-CA-C	6.09	123.77	110.80
30	21	85	ASN	CA-C-N	6.09	127.45	119.84
30	21	85	ASN	C-N-CA	6.09	127.45	119.84
47	D5	100	VAL	N-CA-C	6.08	114.52	107.89
30	29	187	ALA	N-CA-C	6.08	118.62	111.02
19	AA	79	THR	N-CA-C	6.08	118.02	110.91
19	AI	30	LEU	N-CA-C	6.07	118.54	109.25
8	7E	121	ASP	N-CA-C	-6.07	104.66	111.28
46	C5	102	CYS	N-CA-C	6.07	116.09	108.45
35	15	41	ASP	N-CA-C	-6.06	105.53	113.17
31	31	197	ASP	N-CA-C	-6.06	97.89	110.80
52	I5	51	ASP	N-CA-C	6.06	119.99	112.24
19	AA	58	VAL	N-CA-C	6.06	114.63	107.73
26	1H	2712	U	O4'-C1'-N1	6.05	117.28	108.20
29	11	198	ASN	N-CA-C	-6.04	103.58	111.74
33	59	115	VAL	N-CA-C	6.04	116.89	107.28
17	8I	78	GLU	N-CA-C	6.04	119.60	112.72
11	2I	57	THR	CA-C-N	6.03	125.42	118.85
11	2I	57	THR	C-N-CA	6.03	125.42	118.85
44	E8	86	LEU	CA-C-N	-6.01	113.75	119.76
44	E8	86	LEU	C-N-CA	-6.01	113.75	119.76
3	2E	151	VAL	N-CA-C	6.01	117.34	107.24
55	Q8	31	HIS	N-CA-C	6.01	117.84	107.93
33	59	122	THR	N-CA-C	6.01	117.37	108.60
13	4I	13	LYS	CB-CA-C	-6.00	109.64	116.54
55	M5	53	PRO	CA-C-N	6.00	130.19	120.60
55	M5	53	PRO	C-N-CA	6.00	130.19	120.60
34	61	143	SER	N-CA-C	5.99	123.56	110.80
35	58	21	LYS	N-CA-C	-5.98	102.47	110.55
47	D5	86	VAL	N-CA-C	5.98	116.24	108.35
30	21	29	GLY	CA-C-N	5.97	125.73	119.76
30	21	29	GLY	C-N-CA	5.97	125.73	119.76
1	13	687	A	C4'-C3'-O3'	5.97	118.36	109.40
6	5E	65	VAL	N-CA-C	5.97	121.76	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	55	93	GLY	N-CA-C	5.97	120.29	110.97
2	1E	196	LEU	N-CA-C	-5.97	105.76	113.16
50	K8	16	LEU	N-CA-C	-5.97	97.40	108.02
34	61	136	VAL	CA-C-N	5.96	126.46	120.14
34	61	136	VAL	C-N-CA	5.96	126.46	120.14
29	11	47	GLY	CA-C-N	5.96	129.58	121.05
29	11	47	GLY	C-N-CA	5.96	129.58	121.05
45	F8	15	GLU	N-CA-C	-5.96	103.96	111.11
5	4E	22	GLY	N-CA-C	-5.96	100.62	110.80
29	11	68	LYS	CA-C-N	-5.96	112.71	122.54
29	11	68	LYS	C-N-CA	-5.96	112.71	122.54
33	59	127	GLU	N-CA-C	-5.95	100.61	109.42
37	35	36	LYS	N-CA-C	5.95	116.80	108.00
40	A8	37	ALA	N-CA-C	5.94	118.12	108.26
48	E5	46	LYS	CA-C-N	5.94	127.26	119.84
48	E5	46	LYS	C-N-CA	5.94	127.26	119.84
46	C5	13	VAL	N-CA-C	5.93	117.26	108.65
46	C5	80	GLY	N-CA-C	5.93	122.86	114.85
35	58	80	GLY	N-CA-C	-5.93	107.06	115.30
11	2A	25	TYR	N-CA-C	-5.93	104.90	111.36
38	88	77	LYS	CA-C-N	5.92	125.63	119.82
38	88	77	LYS	C-N-CA	5.92	125.63	119.82
50	K8	64	LEU	N-CA-C	-5.92	104.73	111.07
44	E8	62	HIS	CA-C-N	-5.92	114.62	122.85
44	E8	62	HIS	C-N-CA	-5.92	114.62	122.85
11	2I	40	ILE	N-CA-C	-5.92	105.36	110.74
47	H8	63	ASP	N-CA-C	-5.91	103.26	111.30
26	14	1022	G	C2'-C3'-O3'	5.91	118.37	109.50
55	M5	29	LYS	N-CA-C	-5.91	104.75	111.14
39	98	3	HIS	CA-C-N	-5.91	112.84	122.65
39	98	3	HIS	C-N-CA	-5.91	112.84	122.65
46	G8	81	LYS	C-N-CD	-5.91	107.60	120.60
4	32	154	ASN	N-CA-C	5.91	118.48	111.33
17	8A	63	ARG	CA-C-N	5.91	126.21	119.83
17	8A	63	ARG	C-N-CA	5.91	126.21	119.83
33	59	127	GLU	CA-C-N	-5.91	112.45	119.84
33	59	127	GLU	C-N-CA	-5.91	112.45	119.84
1	13	703	G	C4'-C3'-O3'	5.90	118.25	109.40
17	8I	91	ARG	N-CA-C	-5.90	104.03	111.11
33	59	123	PHE	N-CA-C	5.89	116.06	108.34
10	1I	90	LEU	CA-C-N	5.88	127.19	119.84
10	1I	90	LEU	C-N-CA	5.88	127.19	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	58	51	PHE	N-CA-C	-5.88	101.77	110.48
42	C8	6	THR	N-CA-C	-5.88	104.95	111.36
37	78	65	ARG	N-CA-C	5.87	118.00	108.26
45	F8	27	THR	N-CA-C	5.87	118.00	108.26
34	69	131	LYS	C-N-CD	-5.87	107.69	120.60
11	2A	21	ILE	N-CA-C	5.86	116.30	107.80
47	H8	14	LYS	CA-C-N	5.86	126.00	119.32
47	H8	14	LYS	C-N-CA	5.86	126.00	119.32
2	12	236	TYR	N-CA-C	5.85	117.11	108.86
34	61	9	LEU	N-CA-C	5.84	120.42	112.88
31	39	8	GLN	N-CA-C	5.84	118.73	109.50
37	78	22	GLY	CA-C-N	5.84	126.03	119.90
37	78	22	GLY	C-N-CA	5.84	126.03	119.90
37	78	59	LEU	N-CA-C	-5.84	105.25	112.72
42	C8	9	VAL	N-CA-C	5.84	116.49	110.36
44	E8	42	ARG	N-CA-C	-5.84	106.16	113.28
3	22	113	ALA	CA-C-N	-5.83	113.61	119.56
3	22	113	ALA	C-N-CA	-5.83	113.61	119.56
5	42	127	ASN	CA-C-N	5.83	125.97	119.32
5	42	127	ASN	C-N-CA	5.83	125.97	119.32
29	19	62	TYR	N-CA-C	5.82	118.16	109.25
29	19	145	VAL	N-CA-C	5.82	116.86	108.48
26	1H	2468	G	O4'-C1'-N9	5.81	116.92	108.20
10	1I	54	PHE	N-CA-C	5.81	118.07	108.48
37	35	36	LYS	CB-CA-C	-5.81	108.20	116.34
32	49	143	GLU	N-CA-C	-5.80	106.24	113.38
47	H8	6	LYS	N-CA-C	-5.80	98.45	110.80
32	49	45	GLU	N-CA-C	-5.80	104.92	112.23
44	E8	92	ARG	N-CA-C	5.80	117.40	111.14
49	J8	30	VAL	N-CA-C	-5.79	105.19	113.07
29	19	268	ARG	N-CA-C	-5.79	105.79	112.86
4	32	197	PRO	CA-C-O	-5.79	117.02	121.31
26	1H	1558	A	P-O3'-C3'	5.79	128.89	120.20
39	55	40	LYS	N-CA-C	-5.79	105.05	111.71
7	6E	57	GLU	CA-C-N	5.79	127.08	119.84
7	6E	57	GLU	C-N-CA	5.79	127.08	119.84
42	C8	38	THR	N-CA-C	-5.79	104.94	112.23
2	1E	67	THR	N-CA-C	5.78	117.97	109.24
39	98	108	GLY	N-CA-C	-5.77	107.21	115.64
30	21	186	GLY	N-CA-C	5.77	126.86	113.18
34	61	110	ASP	CA-C-N	5.77	140.84	127.00
34	61	110	ASP	C-N-CA	5.77	140.84	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	AA	54	GLY	N-CA-C	-5.77	107.42	114.92
41	75	135	ALA	CB-CA-C	-5.76	109.95	116.63
46	G8	80	GLY	N-CA-C	5.75	126.82	113.18
30	21	135	HIS	N-CA-C	5.75	118.01	111.11
46	G8	104	GLY	N-CA-C	5.75	123.28	115.00
36	25	99	PHE	N-CA-C	5.75	118.02	108.20
53	J5	20	ARG	N-CA-C	-5.75	106.31	113.15
29	19	131	LEU	CA-C-N	-5.74	114.35	120.03
29	19	131	LEU	C-N-CA	-5.74	114.35	120.03
26	1H	2712	U	C6-N1-C1'	-5.74	103.98	121.20
29	19	43	ARG	N-CA-C	5.74	118.30	110.55
38	45	88	GLY	N-CA-C	-5.74	106.60	116.01
51	L8	55	ARG	N-CA-C	5.74	119.27	110.20
33	59	153	LYS	N-CA-C	5.74	122.49	109.81
35	58	69	GLN	N-CA-C	5.74	119.09	111.75
43	D8	45	THR	N-CA-C	5.73	123.01	110.80
17	8I	48	GLU	CA-C-N	-5.73	112.89	122.17
17	8I	48	GLU	C-N-CA	-5.73	112.89	122.17
46	C5	98	VAL	N-CA-C	-5.73	106.22	112.80
30	29	60	ASN	N-CA-C	5.72	122.99	110.80
15	6I	18	PHE	CA-C-N	-5.72	113.89	119.90
15	6I	18	PHE	C-N-CA	-5.72	113.89	119.90
30	21	21	VAL	CA-C-N	5.72	126.99	119.84
30	21	21	VAL	C-N-CA	5.72	126.99	119.84
32	41	107	LEU	N-CA-C	5.72	117.19	111.07
18	9I	86	VAL	N-CA-C	5.72	117.66	108.85
52	I5	55	ARG	N-CA-C	5.71	115.96	108.07
45	F8	67	GLY	N-CA-C	-5.71	99.66	113.18
33	59	95	ARG	N-CA-C	5.71	116.61	108.74
42	85	8	VAL	N-CA-C	5.70	117.12	110.62
20	BI	74	LYS	CB-CA-C	-5.70	108.37	116.34
29	11	222	ARG	NE-CZ-NH1	-5.70	115.80	121.50
33	51	12	PRO	CA-C-N	5.70	132.42	121.54
33	51	12	PRO	C-N-CA	5.70	132.42	121.54
42	85	99	ALA	N-CA-C	-5.69	104.86	113.51
12	3I	103	GLY	N-CA-C	-5.69	107.13	115.72
2	12	100	GLY	N-CA-C	-5.68	107.41	115.43
33	59	101	ARG	N-CA-C	-5.68	104.99	111.07
37	35	144	GLU	CA-C-N	5.68	126.94	119.84
37	35	144	GLU	C-N-CA	5.68	126.94	119.84
1	13	5	U	P-O3'-C3'	5.68	128.72	120.20
26	1H	1799	G	C2'-C3'-O3'	5.68	118.02	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2E	130	VAL	N-CA-C	5.68	116.33	110.82
20	BA	10	LEU	CA-C-N	-5.68	112.32	122.32
20	BA	10	LEU	C-N-CA	-5.68	112.32	122.32
6	5E	6	VAL	N-CA-C	5.67	116.30	107.28
38	88	86	GLY	N-CA-C	-5.67	104.45	111.70
55	Q8	42	ARG	CA-C-N	5.66	131.90	121.70
55	Q8	42	ARG	C-N-CA	5.66	131.90	121.70
45	B5	31	HIS	CA-C-N	5.66	125.02	118.85
45	B5	31	HIS	C-N-CA	5.66	125.02	118.85
29	19	31	LYS	CA-C-O	-5.66	115.55	121.55
16	7A	83	GLU	CB-CA-C	-5.66	109.53	117.23
26	1H	2689	U	P-O3'-C3'	5.66	128.68	120.20
1	1G	345	C	C2'-C3'-O3'	5.66	117.98	109.50
2	12	24	TRP	N-CA-C	5.65	115.85	107.88
7	62	13	GLN	CA-C-N	5.65	125.97	119.92
7	62	13	GLN	C-N-CA	5.65	125.97	119.92
51	H5	56	VAL	N-CA-C	5.65	116.62	108.48
47	D5	153	SER	N-CA-C	-5.65	106.15	113.16
55	Q8	59	LYS	N-CA-C	-5.65	103.08	110.53
39	55	38	VAL	CB-CA-C	-5.64	108.37	114.35
17	8A	57	VAL	N-CA-C	5.64	117.95	108.81
47	D5	52	SER	N-CA-C	5.64	117.51	110.91
37	35	144	GLU	N-CA-C	5.64	117.36	108.23
37	78	71	VAL	CA-C-N	-5.63	113.87	119.56
37	78	71	VAL	C-N-CA	-5.63	113.87	119.56
29	19	270	ILE	N-CA-C	5.63	117.29	109.80
26	1H	2429	G	OP2-P-O3'	5.63	124.89	108.00
4	32	23	GLY	N-CA-C	5.63	121.46	114.37
2	1E	8	LYS	N-CA-C	5.63	117.08	108.30
5	42	67	VAL	N-CA-C	5.62	115.77	108.35
35	15	63	THR	N-CA-C	5.62	117.90	108.96
2	12	200	ILE	N-CA-C	5.62	116.22	107.28
5	42	105	VAL	CA-C-N	-5.62	114.03	119.87
5	42	105	VAL	C-N-CA	-5.62	114.03	119.87
11	2I	125	PHE	N-CA-C	5.62	119.89	112.25
38	88	57	HIS	CA-C-N	-5.61	114.88	122.95
38	88	57	HIS	C-N-CA	-5.61	114.88	122.95
26	14	2225	A	C4'-C3'-O3'	5.61	117.81	109.40
30	21	65	GLY	N-CA-C	-5.60	99.90	113.18
33	59	160	LYS	N-CA-C	5.60	118.13	110.24
1	13	1498	U	P-O3'-C3'	5.59	128.59	120.20
8	7E	66	GLY	CA-C-N	5.59	126.03	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	7E	66	GLY	C-N-CA	5.59	126.03	119.99
30	21	128	SER	N-CA-C	5.59	115.49	108.45
31	39	75	HIS	N-CA-C	5.59	116.45	108.74
29	19	234	GLY	N-CA-C	5.59	119.14	111.54
12	3I	70	ILE	CA-C-N	5.59	125.78	120.31
12	3I	70	ILE	C-N-CA	5.59	125.78	120.31
37	35	40	SER	N-CA-C	-5.59	106.46	113.28
36	68	5	GLN	N-CA-CB	-5.58	108.52	114.10
26	14	746	A	O5'-P-OP2	5.58	124.76	108.00
31	39	74	ARG	CA-C-N	-5.58	113.23	122.11
31	39	74	ARG	C-N-CA	-5.58	113.23	122.11
9	82	59	PHE	N-CA-C	5.58	117.50	108.34
32	49	28	VAL	N-CA-C	5.58	115.78	110.53
54	P8	3	ARG	N-CA-C	5.57	118.50	109.86
1	1G	748	C	P-O3'-C3'	5.57	128.55	120.20
32	41	88	ILE	CB-CA-C	-5.56	104.93	111.94
37	78	45	LEU	N-CA-C	5.56	117.09	110.19
29	11	100	GLY	N-CA-C	-5.56	108.08	114.69
45	F8	2	LYS	N-CA-C	-5.56	106.58	113.19
53	N8	26	THR	CA-C-N	5.56	126.10	120.38
53	N8	26	THR	C-N-CA	5.56	126.10	120.38
48	E5	40	GLN	N-CA-C	5.56	117.29	108.79
37	78	96	THR	CA-C-N	-5.55	112.90	119.84
37	78	96	THR	C-N-CA	-5.55	112.90	119.84
36	68	54	GLU	N-CA-C	-5.55	101.69	109.96
38	88	5	ARG	N-CA-C	-5.54	102.70	110.35
19	AA	26	GLY	N-CA-C	5.54	119.59	112.83
30	29	23	VAL	N-CA-C	5.54	120.86	109.34
31	39	110	LEU	N-CA-C	-5.54	104.93	110.97
38	45	78	PRO	N-CA-C	5.53	123.86	112.47
19	AI	67	VAL	N-CA-C	5.53	120.84	109.34
31	31	73	ALA	CA-C-N	-5.53	114.92	122.93
31	31	73	ALA	C-N-CA	-5.53	114.92	122.93
2	12	19	HIS	N-CA-C	5.53	115.41	108.45
35	58	134	ARG	N-CA-C	5.52	122.01	109.81
37	35	56	SER	N-CA-C	5.52	119.64	113.02
2	1E	24	TRP	N-CA-C	5.52	118.64	110.48
49	F5	7	ILE	N-CA-C	5.52	115.61	110.42
1	13	422	C	P-O3'-C3'	5.51	128.47	120.20
40	A8	90	GLY	CA-C-N	-5.51	116.08	121.65
40	A8	90	GLY	C-N-CA	-5.51	116.08	121.65
41	75	76	PHE	CA-C-N	5.51	125.69	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	75	76	PHE	C-N-CA	5.51	125.69	119.90
41	B8	3	ARG	N-CA-C	-5.51	104.46	110.91
55	Q8	26	LYS	N-CA-C	5.51	122.60	113.89
2	1E	23	ARG	N-CA-C	-5.51	106.41	113.02
14	5I	27	CYS	N-CA-C	5.51	117.14	111.03
12	3I	85	ILE	N-CA-C	5.50	116.03	107.99
16	7I	83	GLU	CB-CA-C	-5.50	109.75	117.23
30	21	107	THR	N-CA-C	5.50	117.65	108.02
31	31	52	LYS	N-CA-C	5.50	117.49	108.52
30	29	106	GLY	N-CA-C	-5.50	105.21	112.81
4	32	176	LEU	N-CA-C	5.50	117.39	108.26
9	8E	17	VAL	N-CA-C	5.50	116.03	108.12
42	C8	70	ARG	N-CA-C	-5.49	106.08	112.89
53	N8	41	PRO	N-CA-C	5.49	117.39	110.70
29	19	118	VAL	CB-CA-C	-5.49	106.58	111.74
8	7E	117	GLY	N-CA-C	5.48	119.60	111.76
37	35	99	LEU	N-CA-C	-5.48	105.32	112.23
55	M5	52	LYS	N-CA-C	5.48	121.92	109.81
33	51	28	GLY	CA-C-N	5.48	126.69	119.84
33	51	28	GLY	C-N-CA	5.48	126.69	119.84
53	J5	25	LEU	N-CA-C	5.48	118.66	109.95
8	72	28	ALA	N-CA-C	5.47	117.65	108.73
42	C8	76	TYR	N-CA-C	-5.47	104.19	111.24
52	I5	12	ALA	N-CA-C	5.47	115.46	108.24
49	J8	2	SER	CA-C-N	-5.47	114.68	122.77
49	J8	2	SER	C-N-CA	-5.47	114.68	122.77
52	M8	4	GLY	N-CA-C	-5.46	103.06	110.43
48	E5	82	ARG	CA-C-N	5.46	125.13	119.56
48	E5	82	ARG	C-N-CA	5.46	125.13	119.56
49	J8	31	GLY	CA-C-O	-5.46	118.52	122.45
55	M5	28	GLY	N-CA-C	-5.46	107.50	114.37
44	A5	110	LYS	N-CA-C	5.45	116.91	110.97
54	P8	28	ARG	N-CA-C	-5.45	105.42	111.36
45	B5	5	TYR	N-CA-C	-5.45	106.61	113.20
19	AA	83	HIS	N-CA-C	5.45	117.92	110.24
51	H5	58	VAL	N-CA-C	5.45	115.80	108.17
45	F8	92	LEU	N-CA-C	5.44	120.03	113.17
15	6I	54	ARG	N-CA-C	-5.44	104.38	111.02
34	61	118	LYS	CA-C-N	5.43	125.44	119.90
34	61	118	LYS	C-N-CA	5.43	125.44	119.90
7	6E	13	GLN	CA-C-N	5.43	125.73	119.92
7	6E	13	GLN	C-N-CA	5.43	125.73	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	11	116	GLN	N-CA-C	-5.43	102.84	110.50
7	6E	132	GLY	N-CA-C	5.42	118.17	111.93
12	3A	44	THR	CA-C-N	5.42	126.78	120.98
12	3A	44	THR	C-N-CA	5.42	126.78	120.98
55	Q8	24	ALA	CA-C-O	-5.42	115.86	121.98
32	49	12	TYR	CA-C-N	-5.41	114.50	123.37
32	49	12	TYR	C-N-CA	-5.41	114.50	123.37
8	7E	101	PRO	N-CA-C	5.41	119.73	111.34
29	19	148	GLU	N-CA-C	-5.41	102.66	110.40
34	69	100	ALA	CA-C-N	-5.41	114.79	122.41
34	69	100	ALA	C-N-CA	-5.41	114.79	122.41
37	78	77	ARG	N-CA-C	-5.41	101.98	108.25
18	9A	32	ARG	N-CA-C	-5.41	106.46	113.16
30	29	38	THR	CA-C-N	5.40	126.59	119.84
30	29	38	THR	C-N-CA	5.40	126.59	119.84
47	D5	7	ALA	CB-CA-C	-5.40	109.36	115.79
2	12	227	GLY	N-CA-C	-5.40	100.38	113.18
19	AI	58	VAL	N-CA-C	5.40	113.88	107.73
33	59	7	LEU	N-CA-C	5.40	121.74	109.81
32	49	44	GLY	N-CA-C	-5.39	106.34	115.34
8	7E	4	ASP	CA-C-N	5.39	125.03	119.05
8	7E	4	ASP	C-N-CA	5.39	125.03	119.05
19	AI	63	THR	N-CA-C	5.38	115.23	108.45
1	1G	1498	U	P-O3'-C3'	5.38	128.26	120.20
12	3A	64	TYR	N-CA-C	5.38	119.92	112.45
8	7E	93	VAL	N-CA-C	5.36	115.31	107.37
31	31	170	LEU	CA-C-N	5.36	125.18	119.28
31	31	170	LEU	C-N-CA	5.36	125.18	119.28
9	82	96	LEU	N-CA-C	5.36	117.56	111.02
50	G5	26	ARG	N-CA-C	-5.36	105.55	111.71
36	25	47	ILE	CA-C-N	5.36	124.81	119.24
36	25	47	ILE	C-N-CA	5.36	124.81	119.24
51	L8	53	LEU	N-CA-C	-5.36	99.39	110.80
26	1H	2060	A	C4'-C3'-O3'	5.35	117.42	109.40
4	32	30	LYS	CA-C-N	-5.35	113.56	122.92
4	32	30	LYS	C-N-CA	-5.35	113.56	122.92
8	72	46	LYS	N-CA-C	-5.34	106.61	113.02
29	19	247	ALA	N-CA-C	5.34	117.51	109.23
36	68	24	VAL	CA-C-N	-5.34	115.43	122.85
36	68	24	VAL	C-N-CA	-5.34	115.43	122.85
46	C5	65	ALA	CA-C-N	5.33	125.33	119.89
46	C5	65	ALA	C-N-CA	5.33	125.33	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	E5	35	ASN	CA-C-N	-5.33	113.97	122.50
48	E5	35	ASN	C-N-CA	-5.33	113.97	122.50
53	N8	19	ARG	N-CA-C	-5.33	105.52	112.23
49	F5	29	GLY	CA-C-N	5.32	131.55	121.97
49	F5	29	GLY	C-N-CA	5.32	131.55	121.97
17	8A	36	ILE	N-CA-C	5.32	116.51	108.96
19	AA	14	HIS	N-CA-C	5.32	117.89	111.40
35	58	46	VAL	N-CA-C	5.31	116.13	111.56
48	I8	60	PHE	N-CA-C	5.31	118.09	108.69
52	I5	24	THR	CA-C-N	5.31	131.68	121.54
52	I5	24	THR	C-N-CA	5.31	131.68	121.54
39	55	117	VAL	N-CA-C	5.30	114.94	106.88
36	68	71	ARG	CA-C-N	5.30	124.96	119.56
36	68	71	ARG	C-N-CA	5.30	124.96	119.56
26	1H	945	A	C8-N9-C1'	-5.29	111.82	127.70
1	13	792	A	C3'-C2'-C1'	-5.29	96.21	101.50
40	A8	88	ASP	N-CA-C	5.29	118.19	111.69
45	F8	59	VAL	N-CA-C	5.29	115.69	107.28
30	29	72	VAL	N-CA-C	-5.29	106.12	113.00
49	J8	56	GLN	N-CA-C	5.29	118.28	110.46
2	1E	171	ALA	N-CA-C	-5.28	105.58	112.23
4	3E	38	TYR	CA-C-N	5.28	125.82	120.38
4	3E	38	TYR	C-N-CA	5.28	125.82	120.38
29	11	230	ASP	N-CA-C	5.28	118.18	111.69
35	58	57	ALA	N-CA-C	-5.27	101.53	109.60
3	22	145	GLY	N-CA-C	5.27	121.01	114.37
26	1H	229	A	P-O3'-C3'	5.27	128.11	120.20
38	88	79	LEU	CA-C-N	5.27	130.07	121.74
38	88	79	LEU	C-N-CA	5.27	130.07	121.74
20	BA	27	LYS	N-CA-C	-5.27	105.61	111.36
30	29	50	GLY	N-CA-C	5.27	125.67	113.18
51	H5	40	THR	CA-C-N	5.27	125.33	119.32
51	H5	40	THR	C-N-CA	5.27	125.33	119.32
39	98	80	PHE	N-CA-C	5.27	117.43	111.11
43	95	79	VAL	N-CA-C	5.26	120.29	109.34
32	49	11	TYR	N-CA-C	-5.26	105.19	111.03
29	19	218	ARG	CA-C-N	5.26	125.25	119.89
29	19	218	ARG	C-N-CA	5.26	125.25	119.89
3	22	82	GLU	CB-CA-C	-5.26	110.08	117.23
33	59	42	ARG	N-CA-C	5.25	116.19	107.73
39	98	82	GLU	CA-C-N	-5.25	117.82	122.97
39	98	82	GLU	C-N-CA	-5.25	117.82	122.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	A8	32	LEU	N-CA-C	-5.25	106.14	112.54
30	29	64	LYS	CB-CA-C	-5.25	109.55	115.79
45	B5	44	GLU	N-CA-C	-5.25	104.62	111.02
40	65	3	ARG	N-CA-C	5.24	117.72	108.75
26	14	49	A	P-O3'-C3'	5.24	128.06	120.20
40	A8	85	VAL	N-CA-C	5.24	115.72	108.23
11	2A	120	ARG	CA-C-N	5.24	125.70	120.52
11	2A	120	ARG	C-N-CA	5.24	125.70	120.52
13	4A	40	ASN	CA-C-N	5.24	124.85	119.56
13	4A	40	ASN	C-N-CA	5.24	124.85	119.56
13	4I	107	ALA	N-CA-C	-5.23	106.58	113.17
26	1H	2689	U	C4'-C3'-O3'	5.23	117.25	109.40
2	12	165	VAL	N-CA-C	5.23	117.12	111.58
17	8A	71	PHE	N-CA-C	5.23	117.60	108.76
36	25	81	ASP	N-CA-C	5.23	115.04	108.45
5	4E	66	MET	N-CA-C	5.23	115.19	108.34
32	41	155	MET	N-CA-C	5.22	116.23	108.60
2	12	231	GLU	CA-C-N	5.22	126.37	119.84
2	12	231	GLU	C-N-CA	5.22	126.37	119.84
42	C8	9	VAL	CB-CA-C	-5.22	105.20	111.88
32	41	50	ALA	N-CA-C	-5.21	106.77	113.02
38	88	26	TYR	CA-CB-CG	5.20	123.27	113.90
2	1E	38	GLY	N-CA-C	-5.20	107.34	114.67
46	G8	105	ALA	N-CA-C	5.20	121.88	110.80
35	15	32	THR	N-CA-C	-5.20	106.19	112.54
42	85	74	LEU	N-CA-C	5.20	117.00	110.24
44	A5	94	ASP	CA-C-N	-5.20	116.16	123.13
44	A5	94	ASP	C-N-CA	-5.20	116.16	123.13
29	19	68	LYS	CA-C-N	-5.20	113.27	122.26
29	19	68	LYS	C-N-CA	-5.20	113.27	122.26
31	31	18	ARG	N-CA-C	5.19	117.87	110.24
1	1G	748	C	C4'-C3'-O3'	5.19	117.19	109.40
43	95	86	GLY	N-CA-C	-5.19	100.88	113.18
46	C5	103	GLY	N-CA-C	5.19	125.48	113.18
16	7I	19	ILE	CA-C-N	-5.19	115.24	122.71
16	7I	19	ILE	C-N-CA	-5.19	115.24	122.71
12	3A	77	LEU	N-CA-C	5.19	117.22	109.59
29	19	243	GLY	N-CA-C	-5.19	108.07	115.64
2	12	201	ILE	N-CA-C	5.18	115.90	107.71
36	25	29	ASN	N-CA-C	5.18	119.29	112.92
13	4A	117	VAL	N-CA-C	5.17	116.08	109.30
31	39	130	ALA	N-CA-C	-5.17	105.19	112.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
42	85	88	ILE	N-CA-C	5.17	115.80	107.73
33	51	92	ILE	CB-CA-C	-5.17	105.35	111.81
33	59	136	ILE	N-CA-C	5.17	115.83	110.82
3	22	206	GLU	N-CA-C	5.17	115.11	108.34
26	1H	1022	G	C2'-C3'-O3'	5.16	117.24	109.50
38	45	86	GLY	N-CA-C	5.16	118.01	112.33
26	14	2439	A	C2'-C3'-O3'	5.16	117.24	109.50
29	11	42	GLY	N-CA-C	-5.16	108.50	115.21
31	31	89	VAL	N-CA-C	5.16	116.12	108.23
36	68	23	ARG	CA-C-N	-5.16	116.42	123.12
36	68	23	ARG	C-N-CA	-5.16	116.42	123.12
47	H8	92	SER	N-CA-C	-5.16	101.59	108.86
12	3I	117	ARG	N-CA-C	5.15	121.77	110.80
49	J8	37	ILE	CB-CA-C	-5.15	103.47	110.42
30	29	49	LEU	N-CA-C	5.15	117.56	110.35
37	35	10	PRO	N-CA-C	5.14	120.61	113.98
50	G5	45	SER	N-CA-C	5.14	117.11	108.73
29	19	37	LEU	CA-C-N	5.14	130.95	121.70
29	19	37	LEU	C-N-CA	5.14	130.95	121.70
37	78	58	THR	N-CA-C	-5.14	105.90	113.61
30	21	202	LYS	N-CA-C	5.13	119.24	112.92
12	3A	23	LYS	N-CA-C	-5.13	106.86	113.02
29	11	88	ARG	N-CA-C	5.13	116.09	108.60
2	12	76	GLN	N-CA-C	-5.13	105.38	111.69
19	AI	6	LYS	N-CA-C	5.13	121.73	110.80
49	F5	35	THR	N-CA-C	-5.13	100.88	109.24
2	1E	16	HIS	N-CA-C	5.13	119.63	113.17
37	35	28	GLY	N-CA-C	-5.13	106.64	112.79
44	A5	6	ILE	N-CA-C	5.13	115.29	108.11
26	1H	1771	C	C3'-C2'-O2'	-5.12	103.01	110.70
30	21	125	GLY	CA-C-N	5.12	125.41	119.93
30	21	125	GLY	C-N-CA	5.12	125.41	119.93
8	72	7	ALA	N-CA-C	-5.12	105.70	111.28
20	BA	33	ILE	CB-CA-C	-5.12	105.33	111.88
43	95	98	GLU	N-CA-C	5.12	121.70	110.80
55	M5	39	LYS	N-CA-C	-5.12	102.33	109.96
26	14	2443	C	O5'-P-OP2	5.12	123.35	108.00
30	29	61	ARG	N-CA-C	5.12	121.12	109.81
38	88	33	GLY	N-CA-C	5.11	121.41	112.10
12	3I	64	TYR	N-CA-C	5.11	116.70	111.03
37	78	26	GLY	N-CA-C	-5.11	108.93	115.42
26	14	746	A	O5'-P-OP1	-5.11	92.67	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	5I	12	ARG	N-CA-C	-5.11	107.56	112.97
17	8A	23	VAL	N-CA-C	5.11	115.39	107.78
33	51	9	ILE	CA-C-N	5.10	126.22	119.84
33	51	9	ILE	C-N-CA	5.10	126.22	119.84
38	45	18	LYS	N-CA-C	5.10	119.55	112.45
45	F8	10	ALA	CA-C-N	5.10	125.50	119.99
45	F8	10	ALA	C-N-CA	5.10	125.50	119.99
6	52	64	GLN	N-CA-C	-5.10	101.95	110.17
4	3E	158	ILE	CB-CA-C	-5.10	105.35	111.88
29	11	43	ARG	N-CA-C	5.10	118.03	110.48
29	11	229	VAL	CB-CA-C	-5.10	105.36	112.04
49	J8	54	ALA	CB-CA-C	-5.10	110.68	116.54
29	11	13	ARG	N-CA-C	-5.10	107.06	113.28
12	3I	63	GLY	CA-C-N	5.09	127.56	120.63
12	3I	63	GLY	C-N-CA	5.09	127.56	120.63
34	61	131	LYS	CA-C-N	5.09	139.23	127.00
34	61	131	LYS	C-N-CA	5.09	139.23	127.00
26	1H	752	A	P-O3'-C3'	5.09	127.84	120.20
43	D8	28	GLU	N-CA-C	-5.09	102.81	110.24
35	15	124	ALA	N-CA-C	-5.09	102.11	109.59
44	E8	108	GLY	N-CA-C	-5.09	103.38	110.96
10	1I	54	PHE	CB-CA-C	-5.08	105.32	114.52
34	69	77	LEU	CB-CA-C	-5.08	109.23	116.34
29	11	234	GLY	N-CA-C	5.08	118.14	111.03
38	88	41	TRP	CA-C-N	-5.08	116.89	123.19
38	88	41	TRP	C-N-CA	-5.08	116.89	123.19
8	7E	81	HIS	N-CA-C	-5.08	105.66	111.14
32	49	28	VAL	CB-CA-C	-5.08	105.37	112.02
38	88	27	VAL	CB-CA-C	-5.07	102.97	111.29
26	1H	2238	G	O5'-P-OP2	-5.07	92.78	108.00
43	95	81	TYR	N-CA-C	5.07	116.78	109.07
10	1I	31	GLY	N-CA-C	5.07	117.42	110.58
54	P8	45	ALA	CA-C-N	-5.07	115.40	122.75
54	P8	45	ALA	C-N-CA	-5.07	115.40	122.75
1	13	1065	U	P-O3'-C3'	5.07	127.80	120.20
4	32	25	ARG	N-CA-C	-5.07	104.84	111.02
26	14	686	G	O5'-C5'-C4'	-5.07	104.10	111.70
33	51	9	ILE	N-CA-CB	-5.06	106.19	111.61
32	41	73	ALA	N-CA-C	5.06	117.64	110.10
33	59	52	VAL	N-CA-C	5.06	115.26	107.77
29	19	41	GLY	N-CA-C	-5.06	101.19	113.18
30	29	24	THR	CB-CA-C	-5.06	102.78	110.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	69	78	THR	N-CA-C	5.06	118.57	111.74
41	75	11	GLU	CA-C-N	-5.06	115.82	122.85
41	75	11	GLU	C-N-CA	-5.06	115.82	122.85
52	M8	25	TYR	N-CA-C	-5.06	105.00	110.91
26	1H	128	C	OP1-P-O3'	-5.05	92.85	108.00
32	41	36	LYS	CA-C-N	-5.05	116.44	122.90
32	41	36	LYS	C-N-CA	-5.05	116.44	122.90
45	F8	3	THR	CB-CA-C	5.05	120.46	110.42
26	14	2689	U	C2'-C3'-O3'	5.05	117.07	109.50
31	31	89	VAL	CB-CA-C	-5.04	104.86	110.96
47	D5	94	GLU	CA-C-N	5.04	126.14	119.84
47	D5	94	GLU	C-N-CA	5.04	126.14	119.84
29	11	120	GLY	CA-C-N	5.04	126.14	119.84
29	11	120	GLY	C-N-CA	5.04	126.14	119.84
40	65	88	ASP	CA-C-N	5.04	131.16	121.54
40	65	88	ASP	C-N-CA	5.04	131.16	121.54
48	I8	57	PHE	CB-CA-C	-5.04	103.58	111.39
16	7I	40	ASP	CA-C-N	5.03	126.13	119.84
16	7I	40	ASP	C-N-CA	5.03	126.13	119.84
42	C8	95	LEU	CA-C-O	5.03	127.22	121.58
3	22	57	ILE	N-CA-C	5.03	115.52	108.17
32	41	29	TRP	CA-CB-CG	-5.03	104.04	113.60
44	E8	98	LYS	N-CA-C	-5.03	101.55	109.25
18	9I	19	LYS	CB-CA-C	-5.03	109.25	115.89
52	M8	6	HIS	N-CA-C	5.03	120.92	109.81
26	14	191	A	OP1-P-O3'	-5.03	92.92	108.00
28	71	57	ASN	N-CA-C	5.02	118.14	110.20
30	21	104	VAL	N-CA-C	5.02	115.08	107.75
50	K8	39	ALA	N-CA-C	-5.02	105.81	111.28
49	F5	37	ILE	N-CA-C	5.02	115.08	107.80
29	11	251	GLY	N-CA-C	5.01	121.66	114.64
38	45	133	ARG	N-CA-C	5.01	119.55	113.38
55	M5	48	PHE	N-CA-C	5.01	114.86	108.24
33	51	153	LYS	CA-C-N	5.01	125.29	119.93
33	51	153	LYS	C-N-CA	5.01	125.29	119.93
8	72	79	VAL	N-CA-C	-5.01	105.96	110.82
2	1E	7	VAL	CA-C-N	-5.00	115.03	121.79
2	1E	7	VAL	C-N-CA	-5.00	115.03	121.79
16	7I	65	GLN	CA-C-N	5.00	125.44	120.14
16	7I	65	GLN	C-N-CA	5.00	125.44	120.14
36	68	26	LYS	CA-C-N	-5.00	116.35	122.75
36	68	26	LYS	C-N-CA	-5.00	116.35	122.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	H8	124	ILE	N-CA-C	5.00	115.85	108.45

There are no chirality outliers.

All (116) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
29	11	197	GLY	Peptide
29	11	235	GLY	Peptide
2	12	19	HIS	Peptide
2	12	199	TYR	Peptide
35	15	41	ASP	Peptide
29	19	236	GLY	Peptide
29	19	237	GLU	Peptide
29	19	270	ILE	Peptide
29	19	32	SER	Peptide
29	19	37	LEU	Peptide
10	1A	55	LYS	Peptide
2	1E	15	VAL	Peptide
2	1E	237	ALA	Peptide
30	21	56	PRO	Peptide
30	21	57	LYS	Peptide
30	21	77	ILE	Peptide
30	21	78	LEU	Peptide
36	25	47	ILE	Peptide
30	29	139	GLY	Peptide
30	29	203	LYS	Peptide
30	29	61	ARG	Peptide
30	29	65	GLY	Peptide
30	29	66	HIS	Peptide
11	2A	49	GLY	Peptide
31	31	196	LEU	Peptide
4	32	152	SER	Peptide
4	32	30	LYS	Peptide
4	32	33	MET	Peptide
37	35	36	LYS	Peptide
37	35	37	GLY	Peptide
37	35	64	LYS	Peptide
31	39	166	ALA	Peptide
31	39	167	ALA	Peptide
31	39	20	LEU	Peptide
31	39	82	ILE	Peptide
12	3A	63	GLY	Peptide

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Mol	Chain	Res	Type	Group
4	3E	31	CYS	Peptide
32	41	95	ARG	Peptide
38	45	135	ASP	Peptide
38	45	25	ASP	Peptide
38	45	27	VAL	Peptide
38	45	79	LEU	Peptide
38	45	87	LYS	Peptide
32	49	13	GLU	Peptide
13	4A	115	LYS	Peptide
13	4I	107	ALA	Peptide
33	59	90	LYS	Peptide
14	5A	29	ARG	Peptide
6	5E	41	GLU	Peptide
34	61	11	ASN	Peptide
34	61	134	PRO	Peptide
34	61	143	SER	Peptide
34	61	82	ARG	Peptide
40	65	59	LYS	Peptide
34	69	112	LYS	Peptide
41	75	12	SER	Peptide
41	75	4	GLY	Peptide
37	78	11	GLY	Peptide
37	78	147	LEU	Peptide
9	82	117	HIS	Peptide
42	85	72	HIS	Peptide
42	85	90	VAL	Peptide
42	85	98	LEU	Peptide
38	88	1	MET	Peptide
38	88	21	THR	Peptide
38	88	78	PRO	Peptide
43	95	78	LYS	Peptide
39	98	44	LEU	Peptide
44	A5	43	GLY	Peptide
44	A5	93	ALA	Peptide
40	A8	106	ARG	Peptide
40	A8	110	LEU	Peptide
19	AI	6	LYS	Peptide
19	AI	7	LYS	Peptide
45	B5	24	GLY	Peptide
45	B5	61	GLY	Peptide
41	B8	2	ASN	Peptide
41	B8	3	ARG	Peptide

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Mol	Chain	Res	Type	Group
20	BA	101	GLY	Peptide
20	BA	11	SER	Peptide
20	BA	72	LEU	Peptide
46	C5	100	ALA	Peptide
46	C5	103	GLY	Peptide
46	C5	81	LYS	Peptide
42	C8	90	VAL	Peptide
42	C8	92	ARG	Peptide
47	D5	136	PHE	Peptide
47	D5	61	LEU	Peptide
48	E5	32	ARG	Peptide
50	G5	17	SER	Peptide
50	G5	43	GLN	Peptide
46	G8	53	PRO	Peptide
46	G8	54	LYS	Peptide
46	G8	80	GLY	Peptide
47	H8	158	PRO	Peptide
47	H8	59	LEU	Peptide
47	H8	63	ASP	Peptide
52	I5	31	ILE	Peptide
52	I5	51	ASP	Peptide
48	I8	83	PRO	Peptide
48	I8	9	SER	Peptide
49	J8	75	GLU	Peptide
50	K8	16	LEU	Peptide
50	K8	17	SER	Peptide
50	K8	46	GLN	Peptide
55	M5	33	ASN	Peptide
55	M5	40	GLU	Peptide
52	M8	38	LYS	Peptide
53	N8	41	PRO	Peptide
55	Q8	19	SER	Peptide
55	Q8	27	THR	Peptide
55	Q8	48	PHE	Peptide
55	Q8	56	GLU	Peptide
55	Q8	6	THR	Peptide
55	Q8	7	HIS	Peptide
55	Q8	9	GLY	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	32185	0	16244	1067	0
1	1G	32182	0	16244	1088	0
2	12	1924	0	1975	116	0
2	1E	1924	0	1975	131	0
3	22	1612	0	1677	114	0
3	2E	1605	0	1668	62	0
4	32	1702	0	1763	115	0
4	3E	1702	0	1762	112	0
5	42	1155	0	1213	85	0
5	4E	1155	0	1213	72	0
6	52	842	0	857	37	0
6	5E	842	0	857	49	0
7	62	1194	0	1234	59	0
7	6E	1256	0	1296	64	0
8	72	1115	0	1177	61	0
8	7E	1115	0	1177	69	0
9	82	1009	0	1037	79	0
9	8E	1009	0	1037	76	0
10	1A	522	0	530	32	0
10	1I	801	0	849	55	0
11	2A	864	0	881	53	0
11	2I	884	0	904	47	0
12	3A	956	0	1046	57	0
12	3I	956	0	1046	49	0
13	4A	933	0	992	61	0
13	4I	933	0	992	64	0
14	5A	418	0	456	35	0
14	5I	491	0	529	43	0
15	6A	733	0	771	41	0
15	6I	733	0	771	47	0
16	7A	705	0	725	36	0
16	7I	705	0	725	59	0
17	8A	823	0	891	28	0
17	8I	834	0	904	65	0
18	9A	590	0	662	28	0
18	9I	590	0	662	32	0
19	AA	624	0	636	55	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	AI	647	0	665	50	0
20	BA	762	0	861	44	0
20	BI	762	0	861	52	0
21	1B	188	0	195	16	0
21	1F	217	0	234	10	0
22	1K	1497	0	770	36	0
23	2K	1646	0	845	36	0
24	3K	1627	0	838	64	0
24	3L	1627	0	838	79	0
25	4K	285	0	143	16	0
25	4L	197	0	99	6	0
26	14	61968	0	31239	1916	0
26	1H	62497	0	31504	1944	2
27	16	2617	0	1328	94	0
27	1J	2617	0	1328	123	0
28	71	737	0	743	65	0
29	11	2115	0	2195	131	0
29	19	2120	0	2197	129	0
30	21	1568	0	1634	111	0
30	29	1568	0	1634	139	0
31	31	1585	0	1632	115	0
31	39	1610	0	1655	146	0
32	41	1473	0	1535	109	0
32	49	1473	0	1535	102	0
33	51	1336	0	1418	98	0
33	59	1307	0	1382	96	0
34	61	1136	0	1223	72	0
34	69	1136	0	1223	61	0
35	15	1104	0	1180	57	0
35	58	1104	0	1180	80	0
36	25	932	0	996	64	0
36	68	932	0	996	49	0
37	35	1122	0	1206	129	0
37	78	1144	0	1228	119	0
38	45	1121	0	1179	95	0
38	88	1077	0	1121	82	0
39	55	959	0	1021	72	0
39	98	967	0	1033	78	0
40	65	881	0	943	76	0
40	A8	881	0	943	72	0
41	75	1141	0	1202	71	0
41	B8	1141	0	1202	81	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	85	963	0	1022	72	0
42	C8	963	0	1022	68	0
43	95	778	0	852	84	0
43	D8	778	0	852	60	0
44	A5	886	0	948	43	0
44	E8	899	0	964	51	0
45	B5	725	0	778	34	0
45	F8	742	0	803	49	0
46	C5	794	0	884	70	0
46	G8	791	0	881	65	0
47	D5	1126	0	1154	94	0
47	H8	1110	0	1141	76	0
48	E5	612	0	633	44	0
48	I8	626	0	642	43	0
49	F5	737	0	813	39	0
49	J8	762	0	848	43	0
50	G5	558	0	610	27	1
50	K8	563	0	612	55	0
51	H5	468	0	518	15	1
51	L8	452	0	503	29	0
52	I5	515	0	514	64	0
52	M8	533	0	526	52	0
53	J5	434	0	454	32	0
53	N8	422	0	440	28	0
54	L5	398	0	441	27	0
54	P8	409	0	454	15	0
55	M5	477	0	540	50	0
55	Q8	480	0	549	106	0
56	2L	1645	0	843	40	0
57	11	3	0	0	0	0
57	13	99	0	0	0	0
57	14	327	0	0	0	0
57	16	11	0	0	0	0
57	1G	72	0	0	0	0
57	1H	444	0	0	0	0
57	1J	3	0	0	0	0
57	25	1	0	0	0	0
57	29	2	0	0	0	0
57	2K	2	0	0	0	0
57	2L	2	0	0	0	0
57	35	1	0	0	0	0
57	3E	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	3L	2	0	0	0	0
57	41	2	0	0	0	0
57	45	1	0	0	0	0
57	4E	1	0	0	0	0
57	4I	1	0	0	0	0
57	55	1	0	0	0	0
57	68	2	0	0	0	0
57	78	2	0	0	0	0
57	88	1	0	0	0	0
57	98	1	0	0	0	0
57	I8	2	0	0	0	0
57	J8	2	0	0	0	0
57	L8	1	0	0	0	0
57	M5	1	0	0	0	0
57	P8	1	0	0	0	0
58	32	1	0	0	0	0
58	3E	1	0	0	0	0
58	5A	1	0	0	0	0
58	5I	1	0	0	0	0
58	C5	1	0	0	0	0
58	G8	1	0	0	0	0
59	11	11	0	0	1	0
59	13	144	0	0	29	0
59	14	592	0	0	151	0
59	16	22	0	0	0	0
59	19	8	0	0	1	0
59	1G	48	0	0	9	0
59	1H	933	0	0	316	0
59	1I	1	0	0	0	0
59	21	3	0	0	1	0
59	25	6	0	0	1	0
59	29	5	0	0	2	0
59	2K	6	0	0	0	0
59	31	9	0	0	0	0
59	35	2	0	0	0	0
59	39	4	0	0	0	0
59	3E	2	0	0	1	0
59	3I	2	0	0	0	0
59	4K	2	0	0	0	0
59	55	3	0	0	2	0
59	5I	2	0	0	0	0
59	75	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	78	6	0	0	2	0
59	A5	1	0	0	0	0
59	D8	1	0	0	0	0
59	F8	2	0	0	0	0
59	G8	2	0	0	0	0
59	H5	2	0	0	1	0
59	I8	5	0	0	2	0
59	J8	1	0	0	0	0
59	L5	1	0	0	0	0
59	L8	1	0	0	1	0
59	M5	1	0	0	0	0
59	P8	2	0	0	0	0
59	Q8	1	0	0	0	0
All	All	295920	0	197803	11433	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 24.

All (11433) 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:270(L):U:H3	34:61:50:ARG:HG2	1.19	1.06
26:1H:2714:G:OP2	59:1H:3574:HOH:O	1.71	1.06
26:1H:2781:A:H5'	26:1H:2782:G:H5'	1.35	1.06
26:1H:741:G:OP1	59:1H:3910:HOH:O	1.74	1.05
5:4E:99:GLY:H	5:4E:117:ASP:HB3	1.21	1.04
26:1H:1614:A:OP1	59:1H:3862:HOH:O	1.75	1.04
4:3E:9:CYS:HB3	4:3E:32:ALA:HB2	1.39	1.03
26:14:1658:C:OP1	59:14:3509:HOH:O	1.76	1.02
26:14:1647:G:OP2	59:14:3555:HOH:O	1.77	1.01
26:1H:1332:G:OP1	59:1H:3885:HOH:O	1.78	1.00
53:N8:41:PRO:HD2	53:N8:44:THR:HG21	1.42	1.00
43:95:85:LYS:HD2	43:95:86:GLY:H	1.23	0.99
26:14:1771:C:HO2'	26:14:1786:A:H8	1.04	0.99
26:1H:1771:C:HO2'	26:1H:1786:A:H8	0.99	0.99
26:14:1614:A:OP1	59:14:3410:HOH:O	1.79	0.98
26:1H:2432:A:OP2	59:1H:3843:HOH:O	1.78	0.98
26:14:2505:G:O6	59:14:3719:HOH:O	1.80	0.98
26:1H:2573:C:OP1	59:1H:4377:HOH:O	1.82	0.98
26:1H:298:G:N7	59:1H:4106:HOH:O	1.95	0.98
29:11:60:ARG:HD3	29:11:86:PRO:HB2	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:751:A:OP1	59:1H:3864:HOH:O	1.80	0.97
55:Q8:34:TRP:HZ3	55:Q8:39:LYS:HB3	1.27	0.97
26:14:2821:A:OP2	59:14:3922:HOH:O	1.83	0.97
26:1H:620:G:H4'	26:1H:621:A:H5"	1.45	0.97
26:1H:862:G:OP2	59:1H:3933:HOH:O	1.84	0.96
11:2A:32:ILE:HD11	11:2A:68:ALA:HB1	1.44	0.96
26:1H:945:A:OP2	59:1H:4058:HOH:O	1.84	0.96
37:35:64:LYS:HB2	55:M5:30:ARG:HH22	1.29	0.96
26:1H:943:U:OP2	59:1H:4352:HOH:O	1.83	0.95
26:1H:2068:U:H3	26:1H:2430:A:H2	0.97	0.95
1:1G:1127:G:H22	1:1G:1144:G:H1	1.12	0.94
2:12:75:LYS:HA	2:12:78:GLN:HB2	1.49	0.94
26:1H:1278:A:H4'	39:98:34:ILE:HD11	1.48	0.94
26:1H:450:G:O6	59:1H:3834:HOH:O	1.85	0.94
26:1H:1776:G:OP2	59:1H:3560:HOH:O	1.85	0.94
26:1H:2308:G:H1	26:1H:2311:A:H2	1.12	0.94
26:14:1757:U:H3	26:14:1762:A:H2	1.05	0.94
55:M5:53:PRO:O	55:M5:57:ARG:NH1	1.99	0.94
26:1H:1601:G:N7	59:1H:3966:HOH:O	2.01	0.94
26:1H:511:U:OP2	59:1H:4387:HOH:O	1.86	0.94
26:1H:1265:A:OP2	59:1H:3517:HOH:O	1.85	0.94
40:65:85:VAL:H	40:65:110:LEU:HB3	1.32	0.94
26:1H:1997:G:OP2	59:1H:3946:HOH:O	1.86	0.93
26:14:1188:U:H4'	43:95:79:VAL:HG11	1.48	0.93
26:1H:2035:G:OP1	59:1H:3710:HOH:O	1.85	0.93
26:14:2056:G:H1	53:J5:4:HIS:HB3	1.34	0.93
35:15:42:TRP:O	42:85:64:ARG:NH2	2.02	0.93
26:1H:763:G:OP1	59:1H:3601:HOH:O	1.87	0.93
43:95:69:LYS:HB3	43:95:86:GLY:HA3	1.52	0.92
34:61:7:GLU:HA	34:61:15:VAL:HG22	1.51	0.92
1:1G:1316:G:H22	1:1G:1319:A:H5"	1.36	0.91
30:21:24:THR:HG21	30:21:188:VAL:HG21	1.53	0.91
26:14:819:A:OP2	26:14:1187:G:N2	2.03	0.91
1:13:737:A:H2'	1:13:738:C:H6	1.35	0.91
11:2A:29:ILE:HG22	11:2A:44:SER:HB2	1.53	0.91
26:1H:1828:G:OP2	59:1H:4366:HOH:O	1.87	0.91
26:1H:945:A:N3	59:1H:3799:HOH:O	2.02	0.91
26:1H:1153:C:OP2	59:1H:3944:HOH:O	1.89	0.91
49:J8:92:LYS:HG3	49:J8:95:LEU:HD12	1.53	0.91
26:14:751:A:OP1	59:14:3409:HOH:O	1.89	0.91
26:1H:761:A:OP1	59:1H:3599:HOH:O	1.87	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1A:51:ARG:HB2	10:1A:60:ARG:HA	1.53	0.91
55:M5:14:VAL:HG11	55:M5:22:VAL:HG12	1.53	0.91
26:1H:1190:G:N7	59:1H:3812:HOH:O	2.04	0.91
1:1G:895:G:H1	1:1G:904:C:H42	1.15	0.90
26:1H:993:G:OP1	42:C8:50:ARG:NH2	2.03	0.90
9:82:95:LYS:HZ1	9:82:96:LEU:HD13	1.35	0.90
26:1H:607:U:H3	26:1H:621:A:H2	0.95	0.90
26:14:1019:U:HO2'	26:14:1021:A:H2	0.94	0.90
26:14:2074:U:OP1	59:14:3403:HOH:O	1.90	0.90
26:14:2393:A:H4'	37:35:62:LEU:H	1.36	0.90
55:M5:34:TRP:CG	55:M5:35:GLN:H	1.89	0.90
1:1G:1376:U:H2'	1:1G:1377:A:H8	1.34	0.90
59:14:3922:HOH:O	30:29:110:GLY:O	1.87	0.90
26:1H:958:U:OP2	38:88:14:ARG:NH1	2.05	0.89
26:1H:2575:C:OP2	59:1H:4375:HOH:O	1.90	0.89
26:1H:2791:C:H42	26:1H:2805:G:H1	1.19	0.89
26:1H:810:U:OP1	59:1H:3629:HOH:O	1.89	0.89
26:14:593:G:H4'	55:M5:60:LEU:HD22	1.54	0.89
42:85:90:VAL:HG22	43:95:39:LEU:HB3	1.52	0.89
26:1H:2131:G:H5"	26:1H:2133:G:H4'	1.54	0.89
26:14:1327:C:OP2	59:14:3566:HOH:O	1.91	0.89
26:14:1219:G:H1	26:14:1230:C:H42	1.21	0.89
26:14:1689:A:H62	26:14:1698:A:H2	1.20	0.89
26:1H:760:G:OP1	59:1H:3754:HOH:O	1.90	0.89
26:1H:2615:U:OP1	59:1H:3517:HOH:O	1.89	0.89
26:1H:2583:G:OP2	59:1H:3737:HOH:O	1.89	0.88
50:K8:47:ASN:O	50:K8:49:LYS:N	2.04	0.88
35:15:56:ASN:H	35:15:125:GLY:HA3	1.35	0.88
26:14:906:G:OP1	38:45:141:GLN:NE2	2.05	0.88
26:1H:2032:G:H21	30:21:146:THR:HG23	1.36	0.88
51:L8:13:ILE:O	59:L8:201:HOH:O	1.91	0.88
4:32:26:CYS:HA	4:32:31:CYS:HB3	1.53	0.88
12:3I:7:ILE:HD11	17:8I:32:TYR:HB3	1.55	0.88
26:1H:730:C:OP2	59:1H:3599:HOH:O	1.90	0.88
26:1H:846:C:O2'	59:1H:3667:HOH:O	1.91	0.88
10:1A:48:THR:HA	10:1A:62:HIS:HB3	1.56	0.88
26:1H:1951:U:O4	59:1H:3952:HOH:O	1.92	0.88
26:14:527:C:OP1	59:14:3935:HOH:O	1.92	0.88
26:1H:1187:G:OP2	59:1H:3818:HOH:O	1.90	0.88
44:E8:88:ARG:HB3	44:E8:92:ARG:HB2	1.53	0.87
26:14:2681:C:H5	26:14:2725:A:H62	1.21	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:147:G:H1	1:1G:175:C:H42	1.22	0.87
26:14:2415:G:H4'	37:35:67:MET:H	1.38	0.87
30:21:55:ASN:HB3	30:21:58:ARG:H	1.39	0.87
26:14:2210:G:O5'	26:14:2211:G:N2	2.06	0.87
26:1H:1386:C:H2'	26:1H:1387:C:H6	1.40	0.87
26:1H:2701:C:H3'	26:1H:2702:U:H5"	1.54	0.87
26:1H:1007:C:OP2	59:1H:4114:HOH:O	1.91	0.87
4:32:23:GLY:H	4:32:26:CYS:HB2	1.36	0.87
1:13:812:C:N3	59:13:1809:HOH:O	2.07	0.87
20:BA:51:GLU:HA	20:BA:54:LYS:HB3	1.57	0.87
26:14:67:U:H3	26:14:74:A:H2	1.22	0.86
1:13:975:A:H4'	1:13:976:G:H5"	1.54	0.86
26:1H:731:C:OP2	59:1H:3597:HOH:O	1.93	0.86
26:1H:1639:U:OP2	59:1H:3548:HOH:O	1.93	0.86
1:1G:998:G:N2	1:1G:1043:C:N3	2.22	0.86
26:14:686:G:H1	54:L5:16:HIS:HE2	1.23	0.86
26:14:602:G:O2'	26:14:604:G:O2'	1.93	0.86
26:14:2210:G:H3'	26:14:2211:G:C2	2.10	0.86
55:M5:34:TRP:CD1	55:M5:35:GLN:H	1.94	0.86
5:4E:83:GLU:HB2	5:4E:88:LYS:HE3	1.55	0.86
26:1H:195:A:N7	59:1H:4369:HOH:O	2.07	0.86
29:19:49:ILE:HD11	29:19:52:ARG:HA	1.55	0.86
1:13:137:C:N4	1:13:226:G:O6	2.07	0.86
26:1H:2074:U:OP1	59:1H:3594:HOH:O	1.92	0.86
26:1H:2577:A:H5"	26:1H:2578:G:H5'	1.58	0.86
26:14:2028:U:O4	59:14:3947:HOH:O	1.94	0.86
26:1H:510:C:OP1	59:1H:4387:HOH:O	1.93	0.86
55:Q8:34:TRP:CZ3	55:Q8:39:LYS:HB3	2.10	0.86
1:1G:1305:G:H22	1:1G:1331:G:H2'	1.39	0.86
26:14:277:C:OP2	26:14:278:A:N6	2.08	0.86
33:59:159:GLU:O	33:59:163:TYR:OH	1.94	0.86
1:13:578:C:OP1	59:13:1929:HOH:O	1.92	0.85
26:1H:1632:A:N7	59:1H:4384:HOH:O	2.08	0.85
26:14:1060:U:H4'	26:14:1061:U:H5"	1.58	0.85
26:14:1729:A:H2'	26:14:1731:G:H22	1.39	0.85
26:1H:1138:G:H21	35:58:106:MET:HE3	1.41	0.85
26:14:2448:A:OP1	59:14:3602:HOH:O	1.94	0.85
27:1J:15:A:H5'	27:1J:16:G:H8	1.38	0.85
26:1H:259:G:HO2'	26:1H:621:A:HO2'	1.16	0.85
26:1H:2588:G:OP1	59:1H:3857:HOH:O	1.91	0.85
26:14:1771:C:OP1	59:14:3498:HOH:O	1.93	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2588:G:OP2	59:14:3489:HOH:O	1.94	0.85
1:13:1133:G:N2	1:13:1141:C:N3	2.22	0.85
26:1H:999:U:OP2	59:1H:3940:HOH:O	1.94	0.85
36:68:17:ARG:HA	36:68:17:ARG:HH11	1.40	0.85
26:14:193:U:OP2	59:14:3623:HOH:O	1.92	0.85
26:14:802:A:OP1	59:14:3873:HOH:O	1.94	0.85
26:14:848:G:H2'	26:14:849:A:H8	1.42	0.85
40:65:99:LYS:NZ	40:65:103:GLU:OE1	2.09	0.85
34:69:139:GLN:OE1	34:69:141:LYS:NZ	2.09	0.85
26:1H:2452:C:OP1	59:1H:4291:HOH:O	1.95	0.85
1:1G:1502:A:H2	1:1G:1505:G:H1	1.24	0.85
26:1H:1871:A:H2'	26:1H:1872:A:C8	2.12	0.85
26:14:676:A:H8	26:14:2069:G:H21	1.22	0.85
26:14:2256:G:N7	59:14:3981:HOH:O	2.09	0.85
26:1H:2576:G:OP1	59:1H:3722:HOH:O	1.94	0.85
26:14:1262:A:N3	53:J5:10:LYS:NZ	2.25	0.85
26:1H:49:A:N7	26:1H:120:U:H5	1.74	0.85
1:1G:458:C:N3	1:1G:474:G:N2	2.23	0.85
1:13:510:A:OP2	4:3E:49:ARG:NH2	2.09	0.84
26:14:517:C:OP1	53:J5:16:ARG:NH2	2.09	0.84
1:13:1226:C:H2'	13:4I:103:THR:HB	1.59	0.84
26:1H:1968:G:OP1	59:1H:4405:HOH:O	1.94	0.84
26:1H:2593:U:O4	59:1H:3587:HOH:O	1.93	0.84
1:13:963:G:N3	10:1I:55:LYS:NZ	2.26	0.84
26:1H:761:A:N7	59:1H:4011:HOH:O	2.10	0.84
33:51:83:TYR:HB3	33:51:135:GLY:H	1.42	0.84
24:3L:76:A:O2'	26:14:2394:C:N3	2.08	0.84
26:14:1228:G:OP2	42:85:16:LYS:NZ	2.11	0.84
26:14:2873:A:H8	39:55:6:SER:H	1.21	0.84
13:4A:13:LYS:HA	13:4A:44:ARG:HH11	1.39	0.84
26:14:1680:U:N3	26:14:1764:G:OP2	2.10	0.84
26:14:2123:G:H2'	26:14:2124:G:H8	1.43	0.84
27:1J:18:G:H1	27:1J:65:C:H42	1.20	0.84
1:13:1508:G:OP1	59:13:1802:HOH:O	1.94	0.84
26:1H:2712(A):A:OP2	59:1H:3574:HOH:O	1.96	0.84
26:1H:2875:C:H1'	41:B8:5:ALA:HB2	1.59	0.84
26:14:2267:A:OP2	59:14:3820:HOH:O	1.96	0.84
26:14:2784:C:O2	30:29:37:ARG:NH2	2.09	0.84
37:35:138:LEU:HD12	37:35:144:GLU:HG3	1.60	0.84
26:1H:974(A):C:OP1	59:1H:4143:HOH:O	1.96	0.84
30:29:66:HIS:NE2	30:29:73:GLU:OE1	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:35:19:VAL:HG13	37:35:21:ARG:H	1.40	0.84
12:3A:41:ARG:HD2	12:3A:42:THR:H	1.43	0.84
26:14:259:G:H21	26:14:621:A:H8	1.21	0.84
1:13:1110:A:OP2	59:13:1916:HOH:O	1.94	0.84
5:42:101:ILE:HD11	5:42:119:LEU:HD23	1.58	0.84
26:14:2002:G:N7	59:14:3793:HOH:O	2.11	0.84
33:59:6:ARG:H	33:59:6:ARG:HD2	1.40	0.84
26:1H:31:C:OP1	59:1H:3699:HOH:O	1.95	0.84
26:1H:259:G:O2'	26:1H:621:A:O2'	1.92	0.84
47:D5:4:ARG:HA	47:D5:58:VAL:HB	1.59	0.84
1:13:1004:A:O5'	1:13:1025:U:N3	2.10	0.83
7:6E:111:ARG:NH1	7:6E:113:GLU:OE2	2.11	0.83
55:Q8:27:THR:HG22	55:Q8:29:LYS:HB3	1.58	0.83
26:14:972:G:O2'	59:14:3969:HOH:O	1.96	0.83
47:D5:157:LEU:HA	47:D5:161:VAL:HG11	1.59	0.83
26:1H:187:G:OP2	59:1H:4283:HOH:O	1.95	0.83
10:1I:61:GLU:OE1	14:5I:58:LYS:NZ	2.11	0.83
26:1H:2849:U:OP2	41:B8:95:ARG:NH1	2.10	0.83
55:Q8:53:PRO:HA	55:Q8:55:ALA:N	1.92	0.83
13:4A:54:VAL:HA	13:4A:57:ARG:HB3	1.60	0.83
26:14:839:U:H3	26:14:939:G:H1	1.24	0.83
26:14:1022:G:O2'	26:14:1023:U:OP2	1.96	0.83
26:1H:16:G:H2'	26:1H:17:G:H8	1.42	0.83
26:1H:801:G:OP2	59:1H:4137:HOH:O	1.95	0.83
26:14:1365:A:O2'	49:F5:11:ARG:NH2	2.12	0.83
27:1J:48:A:H4'	40:65:95:HIS:HD2	1.44	0.83
26:1H:450:G:OP2	59:1H:3831:HOH:O	1.97	0.83
32:41:67:LYS:HE2	52:M8:6:HIS:CE1	2.14	0.83
1:1G:490:G:OP2	4:32:132:ARG:NH2	2.12	0.83
26:14:1364:G:OP2	49:F5:2:SER:N	2.12	0.83
52:I5:56:VAL:HG22	52:I5:57:GLU:HG3	1.60	0.83
2:1E:185:ILE:HG22	2:1E:199:TYR:HB2	1.61	0.83
11:2I:32:ILE:HD13	11:2I:72:ALA:HB2	1.58	0.83
26:1H:428:A:OP1	59:1H:3693:HOH:O	1.97	0.83
26:1H:2591:C:O3'	59:1H:4409:HOH:O	1.96	0.83
9:82:28:VAL:HG22	9:82:63:ILE:HB	1.59	0.83
26:14:1992:G:N7	59:14:3517:HOH:O	2.12	0.83
29:11:12:SER:HB2	29:11:208:LYS:HB3	1.60	0.82
8:72:17:THR:O	8:72:78:GLN:NE2	2.11	0.82
34:69:112:LYS:HA	34:69:114:LEU:H	1.43	0.82
26:1H:195:A:N7	59:1H:4367:HOH:O	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:563:G:OP2	59:1H:3534:HOH:O	1.95	0.82
26:1H:2243:U:OP1	59:1H:3623:HOH:O	1.95	0.82
26:1H:2594:C:N4	59:1H:3587:HOH:O	2.12	0.82
26:14:2017:U:OP1	59:14:3586:HOH:O	1.96	0.82
26:14:2033:A:OP1	59:14:3947:HOH:O	1.97	0.82
33:59:81:GLU:O	33:59:138:LYS:NZ	2.12	0.82
26:1H:654(G):C:O2	26:1H:654(N):G:N2	2.11	0.82
1:1G:156:G:N2	1:1G:165:C:O2	2.10	0.82
10:1A:40:LEU:HG	10:1A:41:PRO:HD2	1.59	0.82
1:13:21:G:OP1	59:13:1836:HOH:O	1.96	0.82
1:1G:1028:C:H42	1:1G:1033:G:H1	1.27	0.82
2:1E:111:ARG:HG2	2:1E:111:ARG:HH11	1.43	0.82
39:55:57:ARG:HD2	39:55:59:ASP:HB3	1.59	0.82
1:13:74:C:H42	1:13:96:G:H1	1.23	0.82
1:13:1129:C:H4'	1:13:1130:A:H5'	1.61	0.82
26:1H:607:U:N3	26:1H:621:A:H2	1.76	0.82
49:J8:83:GLU:HG2	49:J8:85:LEU:H	1.45	0.82
24:3L:71:G:O2'	26:14:1851:U:O2'	1.88	0.82
26:14:252:G:OP2	37:35:50:ARG:NH2	2.13	0.82
26:14:1592:C:H2'	26:14:1593:G:H8	1.44	0.82
32:41:112:PRO:HB3	52:M8:37:SER:H	1.45	0.82
27:1J:86:G:N2	27:1J:90:C:O2	2.10	0.82
32:41:122:PRO:HB3	32:41:180:PHE:HD2	1.44	0.82
1:1G:584:G:H5'	17:8A:91:ARG:HH12	1.45	0.82
1:13:595:G:H1	1:13:641:U:HO2'	1.28	0.81
1:13:1436:U:OP1	20:BI:23:ARG:NH2	2.13	0.81
26:1H:1676:A:OP2	59:1H:3615:HOH:O	1.96	0.81
39:55:104:ARG:HD2	39:55:109:ALA:HB3	1.62	0.81
2:1E:21:ARG:HB2	2:1E:39:ILE:HA	1.62	0.81
26:14:450:G:O6	59:14:3641:HOH:O	1.98	0.81
1:13:972:C:OP1	59:13:1829:HOH:O	1.97	0.81
26:1H:1569:A:H5'	29:11:61:LEU:HD21	1.62	0.81
35:58:12:ARG:NE	35:58:50:ASP:OD1	2.11	0.81
26:14:993:G:H1'	43:95:87:HIS:CE1	2.15	0.81
27:1J:18:G:N2	27:1J:65:C:N3	2.27	0.81
1:13:766:A:OP2	59:13:1810:HOH:O	1.97	0.81
26:1H:946:G:OP2	59:1H:4061:HOH:O	1.99	0.81
26:1H:198:C:OP2	59:1H:4367:HOH:O	1.97	0.81
26:1H:1534:G:H2'	26:1H:1535:U:H4'	1.62	0.81
33:51:101:ARG:NH2	33:51:121:ILE:O	2.13	0.81
24:3L:13:C:H2'	24:3L:14:A:H8	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:95:ARG:HG2	32:49:96:ARG:H	1.45	0.81
1:13:1177:G:OP1	1:13:1177:G:H4'	1.79	0.81
26:1H:509:C:O3'	59:1H:4389:HOH:O	1.99	0.81
26:14:1168:G:O6	26:14:1181:C:N4	2.13	0.81
26:14:1900:A:OP2	59:14:3475:HOH:O	1.98	0.81
30:29:25:VAL:HG12	30:29:26:ILE:H	1.46	0.81
26:1H:1636:C:OP2	59:1H:3510:HOH:O	1.96	0.81
26:1H:2005:A:OP1	59:1H:4362:HOH:O	1.99	0.81
41:B8:27:THR:HG23	41:B8:90:GLN:HB3	1.63	0.81
29:11:242:ARG:O	59:11:404:HOH:O	1.98	0.81
39:98:67:LEU:HD22	39:98:76:VAL:HG21	1.62	0.81
46:G8:38:ILE:HD11	46:G8:64:GLU:HG3	1.63	0.81
43:95:85:LYS:HE3	43:95:88:ARG:H	1.44	0.81
1:13:1305:G:H21	1:13:1331:G:H2'	1.45	0.81
1:13:1500:A:OP1	59:13:1804:HOH:O	1.98	0.81
26:1H:1386:C:H2'	26:1H:1387:C:C6	2.16	0.81
33:59:137:ASP:HB3	33:59:140:LYS:HB2	1.63	0.81
45:B5:8:ILE:O	50:G5:36:ARG:NH2	2.13	0.81
45:B5:36:LYS:HG2	45:B5:54:VAL:HB	1.62	0.81
26:1H:860:U:H5	26:1H:917:A:C2	1.98	0.81
26:1H:1656:C:H5"	30:21:136:ARG:HB2	1.62	0.81
1:1G:1141:C:H2'	1:1G:1142:G:H8	1.46	0.81
26:14:2392:A:H2	26:14:2424:C:H42	1.29	0.81
1:13:680:C:O2	1:13:710:G:N2	2.14	0.80
1:13:1286:A:H5"	21:1F:26:LYS:HG2	1.61	0.80
26:1H:1315:C:OP2	59:1H:3888:HOH:O	1.99	0.80
26:14:196:A:OP2	37:35:46:LYS:NZ	2.13	0.80
13:4I:108:ARG:HG3	13:4I:108:ARG:HH11	1.44	0.80
26:1H:197:A:OP1	59:1H:4367:HOH:O	1.98	0.80
26:1H:2270:G:OP2	59:1H:4195:HOH:O	1.98	0.80
26:14:2701:C:H3'	26:14:2702:U:H5"	1.61	0.80
26:1H:2576:G:OP1	59:1H:3724:HOH:O	1.98	0.80
27:1J:40:U:O2	27:1J:45:A:N6	2.14	0.80
1:13:1312:G:H5'	19:AI:6:LYS:HD3	1.63	0.80
24:3K:10:G:H22	24:3K:25:C:H42	1.29	0.80
26:1H:566:U:OP1	37:78:29:LYS:NZ	2.14	0.80
26:1H:2255:G:OP2	59:1H:4071:HOH:O	1.98	0.80
26:1H:1388:G:H2'	26:1H:1389:G:H8	1.47	0.80
2:12:185:ILE:HG22	2:12:199:TYR:HB2	1.64	0.80
27:1J:5:C:H42	27:1J:115:G:H1	1.26	0.80
45:B5:55:ASN:HB2	45:B5:80:ILE:HG13	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:158:G:N1	1:13:163:C:O2	2.14	0.80
22:1K:1:C:H5'	22:1K:2:G:H5'	1.64	0.80
26:1H:1314:C:OP1	59:1H:3885:HOH:O	1.99	0.80
26:1H:1639:U:OP1	59:1H:3580:HOH:O	2.00	0.80
26:1H:2296:U:OP2	40:A8:9:ARG:NH1	2.15	0.80
28:71:20:TYR:HB2	28:71:224:ILE:HG22	1.63	0.80
50:G5:35:LEU:HD21	50:G5:49:LYS:HB3	1.64	0.80
26:14:749:C:OP2	59:14:3674:HOH:O	2.00	0.80
31:39:101:LEU:O	31:39:106:ARG:NH1	2.14	0.80
26:1H:933:A:OP1	51:L8:24:LYS:NZ	2.14	0.80
26:1H:2099:U:N3	26:1H:2190:G:O6	2.14	0.80
31:31:179:GLU:OE1	31:31:179:GLU:N	2.14	0.80
26:1H:2058:A:N6	59:1H:3520:HOH:O	2.14	0.80
26:14:2255:G:OP2	59:14:3976:HOH:O	1.99	0.80
24:3K:13:C:H2'	24:3K:14:A:H8	1.45	0.80
26:1H:1509:C:H3'	26:1H:1510:A:H5"	1.64	0.80
26:1H:1622:G:OP2	59:1H:4222:HOH:O	2.00	0.80
26:1H:2392:A:OP2	55:Q8:30:ARG:NH2	2.15	0.80
30:21:57:LYS:HG3	30:21:59:VAL:HB	1.64	0.80
38:88:59:ARG:HH11	38:88:59:ARG:H	1.29	0.80
2:12:42:ILE:HD11	2:12:202:PRO:HB2	1.61	0.80
12:3A:27:LEU:HB3	12:3A:33:ARG:HD3	1.64	0.80
13:4A:86:CYS:HB2	19:AA:73:GLU:HB3	1.64	0.80
21:1B:8:THR:HG22	21:1B:11:GLY:H	1.46	0.80
37:35:39:LYS:HB2	37:35:45:LEU:HD21	1.62	0.80
2:1E:198:ASP:HA	8:7E:68:ARG:HH22	1.46	0.79
16:7I:50:LYS:HD3	16:7I:51:VAL:H	1.47	0.79
26:1H:138:G:N2	45:F8:44:GLU:OE2	2.12	0.79
48:I8:64:ASP:HB2	48:I8:85:ALA:HB1	1.63	0.79
31:31:130:ALA:H	31:31:132:VAL:HG13	1.47	0.79
1:1G:1162:C:H42	1:1G:1174:G:H1	1.30	0.79
16:7A:53:VAL:HG13	16:7A:79:VAL:HG22	1.64	0.79
56:2L:65:G:OP1	48:E5:11:ARG:NH2	2.16	0.79
26:14:1434:A:H61	26:14:1558:A:N6	1.80	0.79
26:14:2239:G:OP2	59:14:3404:HOH:O	2.00	0.79
27:1J:116:G:H5'	40:65:55:ALA:HB2	1.62	0.79
1:13:1321:C:H3'	1:13:1322:C:H5"	1.64	0.79
26:1H:2056:G:OP2	59:1H:3525:HOH:O	1.99	0.79
26:1H:2315:G:OP1	32:41:36:LYS:NZ	2.15	0.79
26:1H:2711:A:OP2	59:1H:3579:HOH:O	1.99	0.79
29:11:71:ASP:HB2	29:11:103:ARG:HH22	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:H8:165:VAL:HB	47:H8:167:PRO:HD3	1.63	0.79
1:1G:979:C:H3'	1:1G:980:C:H5"	1.62	0.79
1:1G:1411:C:O2	1:1G:1489:G:N2	2.15	0.79
26:14:1828:G:OP2	59:14:3422:HOH:O	1.98	0.79
27:1J:80:U:H2'	27:1J:81:G:H21	1.46	0.79
42:85:92:ARG:HH22	43:95:10:LYS:HA	1.47	0.79
26:1H:1228:G:OP2	42:C8:16:LYS:NZ	2.14	0.79
26:14:568:U:O4	59:14:3963:HOH:O	2.00	0.79
26:1H:973:A:OP2	59:1H:3809:HOH:O	2.00	0.79
26:1H:2313:C:H4'	32:41:91:ARG:HG3	1.63	0.79
5:42:101:ILE:O	5:42:120:THR:OG1	2.00	0.79
7:62:68:ASN:ND2	7:62:127:ALA:O	2.16	0.79
38:45:25:ASP:HB3	38:45:102:VAL:HG23	1.63	0.79
26:1H:567:A:OP1	59:1H:3505:HOH:O	2.01	0.79
28:71:49:ILE:HG22	28:71:56:GLN:HG2	1.65	0.79
4:32:14:ARG:HH11	4:32:14:ARG:HG3	1.45	0.79
26:14:1975:G:OP2	59:14:3497:HOH:O	2.00	0.79
13:4I:108:ARG:NH1	13:4I:112:GLY:O	2.16	0.79
26:1H:295:G:N2	26:1H:343:C:O2	2.12	0.79
1:13:649:G:H2'	1:13:650:G:H8	1.47	0.79
26:1H:452:G:OP2	59:1H:3829:HOH:O	2.01	0.79
26:1H:442:G:H1'	31:31:48:THR:HG21	1.65	0.79
26:1H:2327:A:H2'	26:1H:2328:A:C8	2.17	0.79
29:19:148:GLU:HB2	29:19:151:LYS:HD2	1.63	0.79
26:1H:2597:G:O3'	59:1H:3555:HOH:O	2.01	0.78
35:15:104:LYS:HA	35:15:107:LEU:HD12	1.66	0.78
26:1H:2298:A:H62	26:1H:2318:G:H8	1.29	0.78
33:51:101:ARG:HH22	33:51:122:THR:HA	1.47	0.78
31:39:185:ASP:OD1	31:39:188:ARG:NH2	2.14	0.78
45:B5:27:THR:HG22	45:B5:80:ILE:HG22	1.65	0.78
26:1H:883:G:O6	26:1H:893:C:N4	2.15	0.78
26:1H:1265:A:O5'	59:1H:3519:HOH:O	2.00	0.78
50:K8:20:GLU:HA	50:K8:23:LYS:HB3	1.63	0.78
26:14:2357:U:OP1	48:E5:20:ARG:NH1	2.15	0.78
41:75:92:GLY:HA2	41:75:116:ALA:HA	1.64	0.78
4:3E:83:SER:HA	4:3E:89:THR:HG23	1.66	0.78
26:1H:10:G:H2'	26:1H:11:G:H8	1.48	0.78
1:13:662:G:O2'	1:13:836:G:OP1	2.02	0.78
26:1H:2574:G:OP1	59:1H:4374:HOH:O	2.02	0.78
26:14:2361:A:N7	59:14:3988:HOH:O	2.15	0.78
34:69:2:LYS:HA	34:69:20:ASP:HA	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1253:A:N7	59:1H:3626:HOH:O	2.15	0.78
1:1G:580:U:H2'	1:1G:581:G:C8	2.18	0.78
26:14:1382:G:N7	59:14:3693:HOH:O	2.17	0.78
26:14:2250:G:C4	38:45:82:ARG:HG3	2.18	0.78
27:1J:52:A:O2'	27:1J:53:A:N7	2.15	0.78
30:29:36:ARG:NH1	30:29:85:ASN:OD1	2.17	0.78
1:13:806:C:H2'	1:13:807:A:H8	1.48	0.78
26:1H:1309:G:O6	59:1H:4183:HOH:O	2.00	0.78
26:1H:2248:C:OP2	59:1H:3638:HOH:O	2.02	0.78
1:1G:975:A:H5'	1:1G:975:A:H8	1.49	0.78
26:14:31:C:OP1	59:14:3734:HOH:O	2.01	0.78
26:14:1337:G:H2'	26:14:1338:G:H8	1.49	0.78
26:14:1676:A:OP2	59:14:3437:HOH:O	2.02	0.78
1:13:975:A:HO2'	14:5I:32:SER:HG	1.27	0.78
26:1H:1478:G:H2'	26:1H:1479:G:H8	1.49	0.78
26:1H:2068:U:N3	26:1H:2430:A:H2	1.79	0.78
31:31:192:LEU:HD21	31:31:194:MET:HE3	1.65	0.78
26:14:1226:G:OP1	43:95:69:LYS:NZ	2.11	0.78
30:29:181:LEU:HD11	41:75:7:ILE:HD11	1.65	0.78
26:1H:1314:C:OP1	59:1H:3888:HOH:O	2.01	0.78
26:1H:1994:C:OP1	59:1H:3947:HOH:O	2.02	0.78
3:22:95:THR:HB	3:22:97:LYS:HG2	1.64	0.78
1:13:486:U:H2'	1:13:487:A:H8	1.48	0.77
26:1H:2210:G:H5'	26:1H:2211:G:N7	1.99	0.77
33:51:86:GLU:HG3	33:51:165:ALA:H	1.49	0.77
52:M8:57:GLU:O	52:M8:61:ARG:NH1	2.16	0.77
26:14:848:G:H2'	26:14:849:A:C8	2.18	0.77
17:8I:11:VAL:HG23	17:8I:20:THR:HB	1.66	0.77
1:1G:359:U:H2'	1:1G:360:A:C8	2.20	0.77
1:1G:1376:U:H2'	1:1G:1377:A:C8	2.19	0.77
15:6A:87:ILE:HG22	15:6A:88:ARG:H	1.49	0.77
26:14:2448:A:O5'	59:14:3600:HOH:O	2.02	0.77
1:13:201:C:N4	1:13:209:U:O2	2.18	0.77
26:1H:1689:A:H62	26:1H:1698:A:H2	1.32	0.77
1:1G:157:G:H1	1:1G:164:U:H3	1.33	0.77
30:29:56:PRO:HD2	30:29:58:ARG:HB2	1.66	0.77
26:1H:2314:C:H2'	26:1H:2315:G:H8	1.49	0.77
29:11:79:VAL:HG21	29:11:111:LEU:HD11	1.66	0.77
37:78:95:VAL:HA	37:78:99:LEU:HD11	1.65	0.77
52:M8:38:LYS:NZ	52:M8:44:THR:OG1	2.17	0.77
11:2A:32:ILE:HD13	11:2A:72:ALA:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2131:G:H5'	26:14:2158:A:H61	1.47	0.77
27:1J:44:G:O2'	27:1J:48:A:N6	2.17	0.77
30:29:55:ASN:O	30:29:57:LYS:NZ	2.17	0.77
31:39:20:LEU:HG	31:39:199:TRP:HH2	1.50	0.77
52:I5:62:ARG:HH11	52:I5:62:ARG:HG3	1.50	0.77
1:13:501:C:H2'	1:13:502:G:C8	2.20	0.77
26:1H:674:G:H1'	31:31:74:ARG:HE	1.49	0.77
26:1H:1670:C:OP1	59:1H:3571:HOH:O	2.02	0.77
26:1H:1899:G:H22	26:1H:1902:C:N4	1.82	0.77
26:14:571:A:OP2	59:14:3961:HOH:O	2.02	0.77
26:14:631:A:OP2	55:M5:47:LYS:NZ	2.15	0.77
36:25:24:VAL:HA	36:25:39:ILE:HG22	1.64	0.77
1:13:1506:U:O2'	59:13:1803:HOH:O	2.02	0.77
4:3E:22:LYS:HB2	4:3E:26:CYS:HB2	1.67	0.77
15:6I:18:PHE:HB2	15:6I:19:PRO:HD2	1.65	0.77
26:1H:2249:U:O4	59:1H:3640:HOH:O	2.01	0.77
33:51:54:ARG:HD3	33:51:65:HIS:ND1	2.00	0.77
1:1G:78:G:N2	1:1G:91:C:O2	2.17	0.77
32:49:109:VAL:HG11	32:49:142:PRO:HG3	1.67	0.77
38:45:81:VAL:O	38:45:82:ARG:NH1	2.17	0.77
26:1H:1327:C:OP2	59:1H:3541:HOH:O	2.01	0.77
31:31:8:GLN:H	31:31:8:GLN:CD	1.91	0.77
33:51:4:ILE:HG13	33:51:6:ARG:HB2	1.67	0.77
26:14:1952:A:C6	36:25:22:ILE:HD11	2.19	0.77
32:49:114:ILE:HG12	32:49:140:ILE:HG21	1.64	0.77
7:6E:73:MET:HG2	7:6E:90:GLU:HA	1.66	0.77
12:3I:49:ASN:ND2	12:3I:92:ASP:OD2	2.17	0.77
26:1H:1417:C:H42	26:1H:1581:G:H1	1.31	0.77
26:1H:1778:U:H2'	26:1H:1784:A:N6	2.00	0.77
26:1H:1828:G:OP1	59:1H:4393:HOH:O	2.02	0.77
26:1H:2577:A:OP1	59:1H:3727:HOH:O	2.02	0.77
29:11:85:ASP:OD2	29:11:88:ARG:NH1	2.17	0.77
1:1G:1349:A:OP1	9:82:118:LYS:NZ	2.18	0.77
2:12:178:ARG:NH1	2:12:196:LEU:O	2.17	0.77
9:8E:3:GLN:OE1	9:8E:20:ARG:NH1	2.16	0.77
26:1H:1828:G:OP1	59:1H:4395:HOH:O	2.02	0.77
29:11:16:MET:HE3	29:11:211:ARG:HD2	1.67	0.77
33:51:169:VAL:O	33:51:170:ARG:NE	2.18	0.77
13:4A:57:ARG:HH12	52:I5:17:GLY:HA3	1.48	0.77
26:14:1772:G:OP1	59:14:3460:HOH:O	2.03	0.77
26:14:2062:A:N6	26:14:2503:A:N7	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2758:A:OP2	59:1H:4324:HOH:O	2.02	0.77
1:1G:666:G:H5'	1:1G:726:C:H1'	1.67	0.77
26:14:1754:C:OP1	41:75:96:ARG:NH1	2.18	0.77
1:13:1300:G:N7	59:13:1927:HOH:O	2.17	0.76
26:1H:910:A:H62	38:88:12:GLN:HA	1.47	0.76
1:1G:826:C:H5'	8:72:12:ARG:HH21	1.48	0.76
1:1G:1268:A:H2'	1:1G:1269:A:C8	2.20	0.76
26:14:1614:A:H62	44:A5:93:ALA:HB2	1.50	0.76
26:14:2105:C:H42	26:14:2184:G:H1	1.28	0.76
35:15:47:ALA:HB2	35:15:112:LEU:HD21	1.67	0.76
1:13:396:G:O2'	1:13:398:C:OP1	2.02	0.76
1:13:490:G:OP2	4:3E:132:ARG:NH2	2.17	0.76
1:13:1212:U:H4'	1:13:1213:A:C8	2.20	0.76
6:5E:25:ILE:HG21	6:5E:82:ARG:HD3	1.67	0.76
8:7E:87:SER:HB2	8:7E:93:VAL:HB	1.67	0.76
26:1H:602:G:H21	26:1H:655:A:H8	1.32	0.76
26:1H:943:U:OP2	59:1H:4353:HOH:O	2.00	0.76
42:C8:92:ARG:O	42:C8:94:ASN:N	2.18	0.76
26:14:581:C:H2'	26:14:582:G:H8	1.49	0.76
1:13:177:C:OP1	20:BI:65:LYS:NZ	2.18	0.76
26:1H:929:G:O6	59:1H:3668:HOH:O	2.03	0.76
26:1H:1382:G:O6	59:1H:4418:HOH:O	2.04	0.76
1:1G:255:G:N2	1:1G:271:C:O2	2.18	0.76
26:14:1997:G:OP2	59:14:3511:HOH:O	2.01	0.76
52:I5:22:ILE:HG12	52:I5:23:GLU:H	1.50	0.76
1:13:444:C:H2'	1:13:445:G:H8	1.50	0.76
1:13:877:C:OP1	8:7E:88:LYS:NZ	2.18	0.76
2:1E:8:LYS:HG2	2:1E:9:GLU:H	1.49	0.76
3:2E:91:LEU:HB2	3:2E:99:VAL:HG21	1.67	0.76
13:4I:58:GLU:O	13:4I:62:ASN:ND2	2.19	0.76
22:1K:23:G:O6	22:1K:47:G:N2	2.18	0.76
26:1H:2496:C:OP1	38:88:82:ARG:HD3	1.84	0.76
1:1G:659:U:OP2	15:6A:8:LYS:NZ	2.15	0.76
1:13:345:C:O2'	1:13:346:G:N2	2.18	0.76
26:1H:606:U:OP2	31:31:104:LYS:NZ	2.18	0.76
38:88:109:VAL:HG13	38:88:113:GLN:HB3	1.67	0.76
1:1G:396:G:O2'	1:1G:398:C:OP1	2.01	0.76
1:1G:1321:C:H3'	1:1G:1322:C:H5"	1.68	0.76
1:1G:1326:C:OP1	21:1B:12:LYS:NZ	2.15	0.76
26:14:2062:A:O2'	26:14:2063:C:OP1	2.03	0.76
38:45:32:TYR:HB3	38:45:133:ARG:HA	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1091:G:N2	26:1H:1100:C:O2	2.18	0.76
26:1H:1794:U:H2'	26:1H:1795:C:H6	1.48	0.76
26:1H:2404:C:O3'	37:78:77:ARG:NH2	2.18	0.76
1:1G:877:C:H5"	8:72:88:LYS:HD3	1.68	0.76
26:14:900:A:H3'	26:14:901:A:H8	1.49	0.76
26:14:1416:G:H1	26:14:1582:C:H42	1.33	0.76
26:14:2499:C:OP1	59:14:3602:HOH:O	2.03	0.76
26:14:2635:C:O2'	30:29:48:GLN:NE2	2.19	0.76
1:13:1226:C:O2'	13:4I:111:LYS:NZ	2.19	0.76
52:M8:6:HIS:HD1	52:M8:7:PRO:HD2	1.50	0.76
1:1G:1154:G:H2'	1:1G:1155:G:H8	1.51	0.76
26:14:2134:A:O2'	26:14:2159:G:N2	2.18	0.76
48:E5:72:ARG:HB3	48:E5:75:LEU:HB2	1.66	0.76
55:M5:29:LYS:HB2	55:M5:44:LYS:HB3	1.67	0.76
18:9I:58:LEU:HD23	18:9I:62:GLU:HB3	1.68	0.76
24:3K:13:C:N4	24:3K:22:G:O6	2.16	0.76
26:1H:1465:G:H2'	26:1H:1466:G:H8	1.50	0.76
27:16:60:C:H2'	27:16:61:G:H8	1.49	0.76
33:51:77:LYS:NZ	33:51:82:GLY:O	2.17	0.76
53:N8:42:PRO:O	53:N8:44:THR:HB	1.86	0.76
1:1G:408:A:N7	59:1G:1730:HOH:O	2.18	0.76
26:14:2439:A:O2'	59:14:3487:HOH:O	2.04	0.76
26:14:2541:A:OP2	59:14:3956:HOH:O	2.03	0.76
1:13:1027:C:N4	1:13:1032(A):G:O6	2.19	0.76
26:1H:197:A:OP1	59:1H:4371:HOH:O	2.04	0.76
2:12:118:LEU:HB3	2:12:142:LEU:HD12	1.66	0.76
1:13:1314:C:N4	19:AI:4:SER:O	2.19	0.76
1:13:1505:G:OP1	59:13:1804:HOH:O	2.03	0.76
10:1I:61:GLU:OE2	14:5I:45:ARG:NH1	2.18	0.76
26:1H:1534:G:H22	26:1H:1538:G:H22	1.34	0.76
26:1H:2121:G:H1	26:1H:2177:C:H42	1.34	0.76
26:1H:2792:G:N2	26:1H:2804:C:O2	2.18	0.76
28:71:183:GLU:CD	28:71:183:GLU:H	1.93	0.76
20:BA:82:SER:HB3	20:BA:86:ARG:HH22	1.49	0.76
26:14:570:G:O6	59:14:3602:HOH:O	2.02	0.76
26:14:770:G:OP2	59:14:3807:HOH:O	2.04	0.76
26:14:1163:G:OP1	43:95:24:LYS:NZ	2.19	0.76
31:39:116:ASP:OD2	37:35:1:MET:N	2.19	0.76
26:1H:271(B):G:H1	26:1H:404:C:H42	1.34	0.75
26:1H:1833:U:H2'	26:1H:1834:U:H6	1.50	0.75
26:1H:2253:G:OP1	59:1H:3640:HOH:O	2.04	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:538:G:O6	59:1G:1731:HOH:O	2.04	0.75
1:1G:838:G:H1	1:1G:848:C:H42	1.32	0.75
2:12:125:PRO:HA	2:12:127:ILE:HG12	1.67	0.75
7:6E:15:ASP:HB3	7:6E:20:ASP:H	1.50	0.75
17:8I:18:THR:OG1	17:8I:69:LYS:NZ	2.16	0.75
26:1H:882:G:N2	26:1H:895:U:O4	2.19	0.75
41:B8:6:LEU:HA	41:B8:9:LEU:HB2	1.66	0.75
1:1G:438:G:H4'	4:32:123:HIS:HD2	1.51	0.75
1:1G:591:U:H2'	1:1G:592:G:C8	2.22	0.75
26:14:2037:G:H2'	26:14:2038:G:H8	1.51	0.75
26:14:2302:G:N2	26:14:2314:C:O2	2.19	0.75
54:L5:12:ARG:HH21	54:L5:44:PRO:HB3	1.51	0.75
38:88:66:ILE:O	38:88:104:PHE:N	2.18	0.75
26:14:581:C:H2'	26:14:582:G:C8	2.21	0.75
33:59:129:THR:HB	33:59:130:ARG:HG3	1.68	0.75
1:13:413:G:O2'	1:13:428:G:N2	2.19	0.75
1:13:501:C:H2'	1:13:502:G:H8	1.51	0.75
24:3K:76:A:O2'	26:1H:2394:C:N3	2.20	0.75
26:1H:446:G:OP2	59:1H:3612:HOH:O	2.04	0.75
26:1H:646:A:H2'	26:1H:647:G:O4'	1.86	0.75
26:1H:2588:G:OP1	59:1H:3855:HOH:O	2.04	0.75
3:22:70:VAL:HG21	3:22:76:VAL:HG11	1.66	0.75
26:1H:733:G:N7	59:1H:4009:HOH:O	2.20	0.75
26:1H:1652:A:OP1	39:98:8:ARG:NH1	2.20	0.75
45:F8:3:THR:HB	45:F8:6:ASP:HB2	1.69	0.75
1:1G:947:G:O3'	13:4A:109:THR:OG1	2.04	0.75
26:14:1725:G:O6	26:14:1735:C:N4	2.20	0.75
31:39:123:LEU:O	31:39:125:LEU:N	2.17	0.75
36:25:13:ASN:HD21	36:25:97:ARG:H	1.34	0.75
47:D5:5:LEU:HD12	47:D5:47:VAL:HG21	1.66	0.75
1:13:1071:C:H2'	1:13:1072:G:H8	1.49	0.75
26:1H:1200:C:OP2	59:1H:3704:HOH:O	2.04	0.75
26:1H:1900:A:H5'	26:1H:1900:A:H8	1.49	0.75
5:42:146:ALA:HA	5:42:149:GLU:HB2	1.69	0.75
26:14:654(B):C:O2	26:14:654(S):G:N2	2.20	0.75
32:49:75:LYS:HE3	32:49:77:ILE:HB	1.68	0.75
35:58:96:GLU:O	35:58:98:VAL:N	2.17	0.75
35:58:132:ALA:O	35:58:134:ARG:NH2	2.19	0.75
1:13:767:A:OP2	59:13:1840:HOH:O	2.04	0.75
26:1H:330:A:O2'	26:1H:331:A:H8	1.68	0.75
40:A8:34:HIS:HB2	40:A8:36:TYR:HE1	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:397:G:N7	59:14:3886:HOH:O	2.20	0.75
8:7E:6:ILE:HB	8:7E:85:ARG:HH12	1.52	0.75
26:1H:2684:U:OP2	41:B8:53:ARG:NH1	2.20	0.75
30:21:38:THR:HG23	30:21:41:LYS:H	1.51	0.75
45:F8:11:PRO:HA	45:F8:28:PHE:HB3	1.69	0.75
26:14:945:A:OP1	59:14:3681:HOH:O	2.04	0.75
26:14:958:U:OP2	38:45:14:ARG:NH1	2.19	0.75
1:13:339:C:OP2	36:68:97:ARG:NH1	2.19	0.74
2:1E:15:VAL:HG21	2:1E:209:ARG:HB3	1.69	0.74
26:1H:409:C:OP1	59:1H:3663:HOH:O	2.03	0.74
26:1H:2138:C:N4	26:1H:2153:G:O6	2.20	0.74
1:1G:199:G:O6	1:1G:218:C:N4	2.20	0.74
26:14:1676:A:OP2	59:14:3433:HOH:O	2.05	0.74
1:13:1007:C:H42	1:13:1022:G:H1	1.33	0.74
2:1E:73:THR:O	2:1E:78:GLN:NE2	2.20	0.74
5:4E:102:ALA:HB1	5:4E:106:PRO:HG2	1.67	0.74
26:1H:357:A:H2'	26:1H:358:U:H6	1.51	0.74
26:1H:1210:A:H5'	26:1H:1210:A:H8	1.51	0.74
2:12:21:ARG:HA	2:12:39:ILE:HA	1.68	0.74
33:59:83:TYR:OH	33:59:132:ARG:NH1	2.21	0.74
12:3I:53:ARG:HG3	12:3I:93:LEU:HD21	1.69	0.74
26:1H:1479:G:N7	26:1H:1510:A:N6	2.36	0.74
1:1G:1117:G:H4'	9:82:104:ARG:HH11	1.52	0.74
26:14:403:U:H4'	26:14:404:C:H5'	1.69	0.74
26:14:1664:A:OP2	59:14:3514:HOH:O	2.05	0.74
26:14:2468:G:OP1	38:45:119:ARG:NH2	2.20	0.74
26:14:2518:A:OP2	59:14:3953:HOH:O	2.05	0.74
29:19:72:LYS:HB3	29:19:75:ILE:HD12	1.70	0.74
1:13:664:G:H22	1:13:741:G:H1	1.34	0.74
1:13:737:A:H2'	1:13:738:C:C6	2.21	0.74
26:1H:1061:U:H4'	26:1H:1070:A:H1'	1.69	0.74
26:1H:2807:G:H3'	26:1H:2808:U:H5"	1.70	0.74
4:32:150:GLU:HA	4:32:153:ARG:HG2	1.68	0.74
27:1J:15:A:H5'	27:1J:16:G:C8	2.21	0.74
46:C5:75:ILE:HG13	46:C5:80:GLY:HA2	1.69	0.74
52:I5:15:ILE:HD13	52:I5:30:GLU:HG2	1.68	0.74
26:1H:784:A:OP1	59:1H:3859:HOH:O	2.05	0.74
12:3A:60:LEU:HB2	12:3A:64:TYR:HB2	1.70	0.74
26:14:1492:G:OP1	26:14:2210:G:N2	2.20	0.74
26:14:1729:A:H2'	26:14:1731:G:N2	2.01	0.74
26:1H:945:A:OP1	59:1H:4068:HOH:O	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1378:A:O2'	26:1H:1380:G:N7	2.18	0.74
37:78:79:ARG:HE	37:78:110:TYR:HE1	1.35	0.74
52:M8:48:ARG:HA	52:M8:48:ARG:HH11	1.53	0.74
1:1G:405:U:O4	4:32:2:GLY:N	2.19	0.74
1:1G:1401:G:OP1	25:4L:18:G:O2'	2.04	0.74
26:14:322:A:P	31:39:169:ASN:HD22	2.11	0.74
26:14:400:G:N7	59:14:3706:HOH:O	2.20	0.74
6:5E:39:LYS:HB2	6:5E:39:LYS:HZ2	1.52	0.74
26:1H:1858:G:H2'	26:1H:1883:G:H22	1.52	0.74
27:16:71:C:H2'	27:16:72:G:H8	1.51	0.74
1:1G:279:A:OP2	17:8A:95:TYR:OH	2.04	0.74
1:1G:534:U:O3'	59:1G:1733:HOH:O	2.05	0.74
26:14:273(F):C:N4	26:14:363:G:O6	2.20	0.74
26:14:1864:U:OP1	26:14:2410:G:O2'	2.04	0.74
37:35:71:VAL:HG13	37:35:72:PRO:HD3	1.69	0.74
43:95:71:LEU:H	43:95:86:GLY:HA2	1.52	0.74
20:BI:71:THR:HG22	20:BI:72:LEU:H	1.53	0.74
26:1H:846:C:O3'	59:1H:3670:HOH:O	2.06	0.74
26:1H:987:G:OP2	59:1H:3935:HOH:O	2.05	0.74
26:1H:1113:U:H5'	33:51:2:SER:HB2	1.70	0.74
1:1G:56:U:H2'	1:1G:57:G:C8	2.22	0.74
1:1G:1133:G:N2	1:1G:1141:C:O2	2.19	0.74
1:1G:1305:G:H22	1:1G:1331:G:C2'	2.01	0.74
26:14:2674:G:H4'	36:25:30:ALA:HB2	1.69	0.74
26:1H:2074:U:OP1	59:1H:3593:HOH:O	2.05	0.74
51:L8:9:VAL:HG22	51:L8:54:VAL:HA	1.69	0.74
1:1G:272:C:H2'	1:1G:273:A:H8	1.53	0.74
7:62:93:PRO:HG2	7:62:94:ARG:HD3	1.70	0.74
12:3A:39:VAL:HG23	12:3A:57:LYS:HD3	1.68	0.74
26:14:1899:G:H21	26:14:1902:C:N4	1.86	0.74
26:14:2781:A:H5"	26:14:2782:G:H5'	1.68	0.74
1:13:509:A:OP2	59:13:1922:HOH:O	2.06	0.74
26:1H:2345:G:H1'	26:1H:2382:G:H5'	1.68	0.74
1:1G:1245:A:H61	1:1G:1292:U:H3	1.33	0.74
26:14:774:A:O2'	26:14:775:G:O5'	2.06	0.74
26:14:1174:A:N6	26:14:1176:G:O2'	2.20	0.74
26:14:2062:A:OP1	59:14:3676:HOH:O	2.05	0.74
26:1H:796:C:H2'	26:1H:797:C:C6	2.23	0.73
46:G8:87:LYS:HB3	46:G8:94:LYS:HG2	1.68	0.73
1:1G:1158:C:O2'	2:12:133:LYS:NZ	2.17	0.73
26:14:1111:A:O2'	33:59:2:SER:OG	2.05	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2580:U:OP2	59:14:3718:HOH:O	2.04	0.73
55:M5:40:GLU:H	55:M5:43:GLN:HB2	1.53	0.73
2:1E:115:LEU:HD13	2:1E:145:LEU:HB3	1.70	0.73
26:1H:567:A:OP1	59:1H:3507:HOH:O	2.04	0.73
26:1H:1269:A:OP2	59:1H:4362:HOH:O	2.04	0.73
26:1H:2507:C:OP1	59:1H:4378:HOH:O	2.06	0.73
26:1H:2575:C:OP2	59:1H:4377:HOH:O	2.05	0.73
49:J8:91:LYS:O	49:J8:94:LEU:N	2.20	0.73
55:Q8:57:ARG:NE	55:Q8:57:ARG:O	2.21	0.73
2:12:87:ARG:HH21	2:12:233:SER:HB2	1.52	0.73
56:2L:22:A:H61	56:2L:47:7MG:H2'	1.54	0.73
26:14:67:U:H2'	26:14:68:G:H8	1.51	0.73
26:1H:1301:A:OP1	59:1H:3509:HOH:O	2.05	0.73
46:G8:100:ALA:HB1	46:G8:101:LYS:HB2	1.69	0.73
1:1G:1189:C:OP1	10:1A:51:ARG:NH2	2.21	0.73
26:14:654(C):G:N2	26:14:654(R):C:O2	2.22	0.73
30:29:109:LYS:HE2	30:29:191:PRO:HA	1.70	0.73
47:D5:30:ASN:HA	47:D5:89:PHE:HE1	1.53	0.73
1:13:1366:C:O3'	10:1I:60:ARG:NH2	2.22	0.73
4:3E:31:CYS:SG	4:3E:32:ALA:N	2.61	0.73
26:1H:1249:U:OP1	59:1H:3825:HOH:O	2.06	0.73
26:1H:2127:G:H1	26:1H:2162:G:H1'	1.54	0.73
26:1H:2134:A:OP2	26:1H:2157:G:N2	2.21	0.73
26:1H:2607:G:O3'	59:1H:3908:HOH:O	2.07	0.73
1:1G:1123:A:O2'	10:1A:37:PRO:O	2.06	0.73
1:1G:1213:A:N6	1:1G:1215:G:N3	2.36	0.73
26:14:1048:A:N6	26:14:1112:G:O2'	2.18	0.73
31:39:182:ASN:ND2	31:39:185:ASP:OD2	2.16	0.73
18:9I:26:LEU:HD22	18:9I:42:ARG:HH22	1.51	0.73
26:1H:583:G:N7	59:1H:3673:HOH:O	2.20	0.73
26:1H:2070:G:OP1	59:1H:4080:HOH:O	2.04	0.73
37:78:138:LEU:HD12	37:78:144:GLU:HG3	1.70	0.73
46:G8:76:CYS:O	46:G8:78:ALA:N	2.20	0.73
26:14:2037:G:H2'	26:14:2038:G:C8	2.24	0.73
26:14:2579:C:OP1	59:14:3721:HOH:O	2.06	0.73
31:39:46:ARG:HG2	31:39:46:ARG:HH11	1.53	0.73
53:J5:49:CYS:SG	53:J5:50:GLY:N	2.62	0.73
5:4E:11:ILE:HD11	5:4E:31:LEU:HD22	1.70	0.73
26:1H:270(L):U:N3	34:61:50:ARG:HG2	1.99	0.73
26:1H:1140:C:OP1	35:58:23:LEU:HB3	1.89	0.73
40:A8:35:ILE:HG22	40:A8:97:ARG:HH21	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:B8:3:ARG:HB2	41:B8:6:LEU:H	1.53	0.73
44:E8:86:LEU:HD12	44:E8:87:PRO:HD2	1.70	0.73
26:14:760:G:OP1	59:14:3975:HOH:O	2.06	0.73
26:14:2050:C:H1'	30:29:156:MET:HE2	1.70	0.73
26:14:2720:U:H3	26:14:2873:A:H2	1.35	0.73
34:69:80:PRO:HA	34:69:143:SER:HA	1.71	0.73
1:13:352:C:O2'	1:13:354:G:OP1	2.05	0.73
1:13:917:G:H2'	1:13:918:A:C8	2.23	0.73
26:14:1436:G:O2'	26:14:1477:A:H4'	1.88	0.73
29:19:93:ALA:HB3	29:19:105:ILE:HG22	1.71	0.73
33:59:41:MET:N	33:59:41:MET:SD	2.61	0.73
24:3K:50:U:O4	24:3K:64:A:N6	2.19	0.73
26:1H:2688:U:H5	26:1H:2720:U:OP2	1.72	0.73
33:51:83:TYR:HB3	33:51:135:GLY:N	2.03	0.73
51:L8:38:GLU:OE2	51:L8:38:GLU:N	2.14	0.73
26:14:2074:U:OP1	59:14:3405:HOH:O	2.07	0.73
1:13:1111:A:N1	3:2E:177:THR:OG1	2.22	0.73
1:13:1307:U:OP1	13:4I:101:GLN:NE2	2.21	0.73
1:13:1367:C:H5'	10:1I:60:ARG:HH21	1.52	0.73
26:1H:111:A:H5'	50:K8:69:ARG:HH12	1.54	0.73
26:1H:731:C:OP2	59:1H:3599:HOH:O	2.06	0.73
26:1H:2683:C:OP1	41:B8:53:ARG:NH2	2.19	0.73
52:M8:56:VAL:O	52:M8:60:GLN:NE2	2.22	0.73
1:1G:1016:A:O2'	1:1G:1217:C:O2'	2.04	0.73
1:1G:1224:G:C6	1:1G:1322:C:H1'	2.23	0.73
29:19:60:ARG:NH1	29:19:86:PRO:O	2.21	0.73
32:49:40:ASN:HB2	32:49:91:ARG:HG3	1.71	0.73
52:I5:57:GLU:O	52:I5:61:ARG:NH2	2.21	0.73
26:1H:1021:A:H2'	26:1H:1023:U:H5'	1.71	0.73
13:4A:60:VAL:HG13	13:4A:64:TRP:HE1	1.54	0.73
26:14:578:A:OP2	59:14:3584:HOH:O	2.07	0.73
26:14:1040:C:O2	26:14:1115:G:N2	2.15	0.73
26:14:1279:G:N2	26:14:1291:C:O2	2.20	0.73
38:45:11:LYS:NZ	38:45:86:GLY:O	2.22	0.73
1:13:1291:G:OP1	7:6E:37:ASN:ND2	2.21	0.72
4:3E:15:GLU:OE2	4:3E:59:ARG:NH2	2.21	0.72
7:6E:143:ARG:NH1	24:3K:41:C:O3'	2.22	0.72
9:8E:17:VAL:HG21	9:8E:80:GLY:HA3	1.69	0.72
26:1H:963:U:OP1	59:1H:3791:HOH:O	2.07	0.72
26:1H:1153:C:OP2	59:1H:3943:HOH:O	2.06	0.72
31:31:66:PRO:O	31:31:67:GLN:HB3	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:J8:87:PRO:HA	49:J8:90:ILE:HG13	1.71	0.72
52:M8:38:LYS:H	52:M8:38:LYS:HD2	1.54	0.72
1:1G:1292:U:H2'	1:1G:1293:G:C8	2.24	0.72
26:14:38:A:H1'	31:39:48:THR:HB	1.70	0.72
26:14:1450:C:H2'	26:14:1451:C:C6	2.24	0.72
26:14:1455:G:OP2	59:14:3914:HOH:O	2.06	0.72
26:1H:187:G:N7	59:1H:4279:HOH:O	2.22	0.72
26:1H:363(B):G:H2'	26:1H:363(C):G:H8	1.53	0.72
26:1H:1187:G:OP2	59:1H:3820:HOH:O	2.06	0.72
26:1H:1516:U:H2'	26:1H:1517:G:H8	1.54	0.72
26:1H:2178:C:H5'	28:71:46:LYS:HD3	1.70	0.72
55:Q8:53:PRO:HA	55:Q8:54:GLU:C	2.12	0.72
26:14:328:U:H4'	46:C5:68:HIS:CD2	2.24	0.72
26:14:2324:C:H5"	26:14:2325:G:H5'	1.69	0.72
30:29:33:VAL:HG12	30:29:89:ASP:HB3	1.69	0.72
35:15:42:TRP:HA	35:15:48:MET:HE1	1.69	0.72
1:1G:1142:G:H3'	1:1G:1143:G:H8	1.54	0.72
2:12:204:ASN:HD22	2:12:207:ALA:HB3	1.54	0.72
26:14:2139:C:N4	26:14:2152:G:O6	2.22	0.72
5:4E:10:MET:HB2	5:4E:32:VAL:HG22	1.70	0.72
27:16:95:U:H2'	27:16:96:G:H8	1.53	0.72
37:78:1:MET:HE2	37:78:6:LEU:HD13	1.72	0.72
26:14:2035:G:OP1	59:14:3611:HOH:O	2.08	0.72
27:1J:7:G:H5"	27:1J:7:G:H8	1.55	0.72
1:13:352:C:OP1	59:13:1878:HOH:O	2.06	0.72
1:13:1244:C:H42	1:13:1293:G:H1	1.37	0.72
26:1H:1042:G:N2	26:1H:1113:U:O2	2.20	0.72
26:1H:1900:A:H5'	26:1H:1900:A:C8	2.25	0.72
26:1H:1918:A:O2'	26:1H:1920:C:N4	2.22	0.72
26:14:2469:A:H2	26:14:2481:G:H21	1.37	0.72
41:75:54:ARG:HA	41:75:59:THR:HB	1.71	0.72
47:D5:24:LEU:HD21	47:D5:44:PHE:HD2	1.54	0.72
52:I5:61:ARG:HA	52:I5:61:ARG:CZ	2.20	0.72
19:AI:40:ILE:HG23	19:AI:41:VAL:HG13	1.72	0.72
26:1H:1243:G:O2'	37:78:7:ARG:NH2	2.22	0.72
29:11:108:PRO:HG3	29:11:143:HIS:CE1	2.24	0.72
38:88:59:ARG:C	38:88:61:GLY:H	1.95	0.72
5:42:50:GLU:HB3	5:42:53:LEU:HD13	1.72	0.72
26:14:1110:G:H2'	26:14:1111:A:H8	1.54	0.72
5:4E:41:VAL:HG13	5:4E:113:ALA:HB2	1.71	0.72
38:88:12:GLN:HG2	38:88:73:PRO:HD2	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:42:121:LYS:HZ2	5:42:123:LEU:HD23	1.53	0.72
7:62:69:VAL:HG22	7:62:135:VAL:HG22	1.71	0.72
26:14:943:U:OP2	37:35:36:LYS:NZ	2.18	0.72
26:14:1579:A:H2'	26:14:1580:A:C8	2.24	0.72
30:29:135:HIS:NE2	59:29:402:HOH:O	2.22	0.72
9:8E:50:LEU:HD23	9:8E:85:LEU:HD11	1.71	0.72
10:1I:48:THR:HA	10:1I:62:HIS:HB3	1.71	0.72
26:1H:399:G:OP2	59:1H:3983:HOH:O	2.07	0.72
26:1H:994:C:O2'	26:1H:996:A:OP1	2.06	0.72
26:1H:1835:G:OP2	59:1H:3916:HOH:O	2.06	0.72
26:1H:2878:U:O4	59:1H:4198:HOH:O	2.05	0.72
38:88:18:LYS:O	38:88:98:LYS:NZ	2.22	0.72
39:98:41:ALA:O	39:98:44:LEU:N	2.18	0.72
1:1G:938:A:N3	1:1G:1376:U:O2'	2.22	0.72
26:14:1204:A:O2'	26:14:1205:U:OP2	2.08	0.72
26:14:1257:C:H4'	31:39:83:PHE:CE1	2.24	0.72
26:14:2882:A:H5'	39:55:96:ARG:HG3	1.70	0.72
26:1H:2057:A:OP2	59:1H:3521:HOH:O	2.07	0.72
33:51:86:GLU:HG2	33:51:87:LEU:H	1.54	0.72
26:14:889:C:H2'	26:14:890:A:H4'	1.70	0.72
26:14:1062:G:OP1	26:14:1064:C:N4	2.22	0.72
1:13:711:G:H2'	1:13:712:A:H8	1.54	0.72
26:1H:732:C:OP2	59:1H:4012:HOH:O	2.08	0.72
26:1H:1975:G:OP2	59:1H:3928:HOH:O	2.08	0.72
34:61:39:ALA:HB1	34:61:44:LEU:HD23	1.72	0.72
26:14:2528:U:O3'	26:14:2529:G:N2	2.23	0.72
31:39:4:VAL:HA	31:39:19:GLU:HB3	1.72	0.72
1:13:352:C:OP2	59:13:1874:HOH:O	2.07	0.71
1:13:659:U:H2'	1:13:660:G:C8	2.24	0.71
1:13:1077:G:N2	1:13:1080:A:OP2	2.21	0.71
4:3E:96:LEU:HD12	4:3E:139:ARG:HH11	1.55	0.71
31:31:8:GLN:NE2	31:31:8:GLN:O	2.23	0.71
1:1G:1316:G:H4'	14:5A:18:VAL:HG11	1.71	0.71
8:72:119:LEU:HD12	8:72:124:ALA:HA	1.72	0.71
26:14:1448:G:O2'	26:14:1528:A:N6	2.22	0.71
26:14:1569:A:H5'	29:19:61:LEU:HD21	1.71	0.71
26:14:1717:G:H1	26:14:1742:C:H42	1.37	0.71
26:14:2297:C:O2	26:14:2321:G:N2	2.17	0.71
43:95:85:LYS:HB3	43:95:87:HIS:H	1.55	0.71
26:1H:779:U:O4	59:1H:4014:HOH:O	2.05	0.71
43:D8:65:GLY:HA3	43:D8:91:TYR:CE1	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2777:G:H5”	26:14:2778:A:H5’	1.71	0.71
30:29:81:ILE:HG22	30:29:82:ARG:H	1.54	0.71
39:98:55:ALA:HA	39:98:80:PHE:HE1	1.55	0.71
55:Q8:39:LYS:HG2	55:Q8:40:GLU:H	1.55	0.71
26:14:1221:C:N4	26:14:1229(A):G:O6	2.18	0.71
26:14:1962:C:O2’	26:14:1964:G:OP2	2.08	0.71
26:14:2689:U:H5”	26:14:2713:A:H2	1.54	0.71
12:3I:90:VAL:HG11	12:3I:93:LEU:HG	1.72	0.71
26:1H:557:U:H2’	26:1H:558:G:H8	1.56	0.71
26:1H:2126:A:N7	26:1H:2127:G:N2	2.38	0.71
26:1H:2308:G:N1	26:1H:2311:A:H2	1.87	0.71
38:88:51:ARG:HH12	38:88:52:VAL:HG23	1.56	0.71
1:1G:1004:A:C6	1:1G:1025:U:H1’	2.26	0.71
31:31:67:GLN:HG3	31:31:67:GLN:O	1.89	0.71
35:58:57:ALA:C	35:58:59:LYS:H	1.99	0.71
26:14:96:G:H4’	50:G5:48:HIS:CE1	2.25	0.71
26:14:2502:G:H5”	26:14:2503:A:H5”	1.72	0.71
34:69:130:TYR:HB3	34:69:136:VAL:HG13	1.72	0.71
41:75:26:ASP:OD1	41:75:120:ARG:NH2	2.23	0.71
26:1H:2164:C:OP2	26:1H:2166:G:N2	2.24	0.71
26:1H:2254:C:OP2	59:1H:4073:HOH:O	2.07	0.71
19:AA:63:THR:OG1	19:AA:65:ASN:O	2.06	0.71
26:14:453:C:OP1	59:14:3646:HOH:O	2.06	0.71
26:14:1260:G:H2’	26:14:1261:C:H6	1.55	0.71
50:G5:47:ASN:O	50:G5:49:LYS:N	2.23	0.71
17:8I:67:LYS:HA	17:8I:70:ARG:HH12	1.55	0.71
19:AI:63:THR:HG22	19:AI:66:MET:HE3	1.72	0.71
32:41:64:THR:HG22	32:41:66:GLN:H	1.55	0.71
1:1G:426:G:OP1	4:32:38:TYR:OH	2.07	0.71
26:14:526:A:OP1	59:14:3937:HOH:O	2.07	0.71
33:59:26:VAL:HG12	33:59:33:LEU:H	1.55	0.71
1:13:1318:A:H5”	19:AI:10:PHE:CD2	2.26	0.71
10:1I:77:PRO:HB2	10:1I:79:ARG:HH12	1.55	0.71
26:1H:10:G:H2’	26:1H:11:G:C8	2.25	0.71
26:1H:2635:C:H5”	30:21:78:LEU:HA	1.72	0.71
26:1H:2867:G:OP2	41:B8:119:LYS:NZ	2.14	0.71
43:D8:14:VAL:HB	43:D8:96:ILE:HG13	1.71	0.71
1:1G:200:G:H1	1:1G:217:C:H42	1.35	0.71
1:1G:1142:G:H3’	1:1G:1143:G:C8	2.26	0.71
26:14:1456:G:OP2	59:14:3915:HOH:O	2.07	0.71
29:19:108:PRO:HB3	29:19:143:HIS:HE2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:75:64:ARG:HB2	41:75:73:GLU:HG2	1.71	0.71
51:H5:13:ILE:O	59:H5:101:HOH:O	2.09	0.71
26:1H:1756:G:OP2	59:1H:4329:HOH:O	2.09	0.71
26:1H:2431:U:OP2	59:1H:3846:HOH:O	2.09	0.71
39:98:104:ARG:NH1	39:98:107:ASP:OD2	2.24	0.71
2:12:35:GLU:HG3	2:12:38:GLY:HA2	1.73	0.71
26:14:654(B):C:H2'	26:14:654(C):G:C8	2.26	0.71
26:14:1423:G:N7	59:14:3759:HOH:O	2.23	0.71
26:14:2228:G:O6	59:14:3858:HOH:O	2.08	0.71
26:14:2878:U:O4	59:14:3833:HOH:O	2.07	0.71
37:35:84:ASN:HB3	37:35:86:LYS:HG2	1.73	0.71
38:45:110:THR:OG1	38:45:112:GLU:OE2	2.07	0.71
39:55:38:VAL:HG12	39:55:42:LYS:HD2	1.73	0.71
1:13:1327:C:OP2	21:1F:12:LYS:NZ	2.23	0.71
1:13:1372:U:H5"	9:8E:71:SER:HB2	1.72	0.71
25:4K:13:A:O2'	25:4K:14:A:OP1	2.09	0.71
26:1H:307:G:N7	59:1H:4231:HOH:O	2.24	0.71
26:1H:1022:G:O6	35:58:66:LYS:NZ	2.24	0.71
26:1H:1631:A:OP1	59:1H:4382:HOH:O	2.08	0.71
27:16:1(M):A:H61	27:16:119:A:H62	1.39	0.71
1:1G:448:A:OP2	1:1G:485:G:N2	2.19	0.71
1:1G:1219:U:HO2'	19:AA:34:TRP:CD1	2.09	0.71
1:1G:1239:A:O2'	1:1G:1298:C:N4	2.24	0.71
26:14:2127:G:O6	26:14:2161:C:N4	2.15	0.71
1:13:310:G:OP2	16:7I:27:LYS:NZ	2.19	0.70
26:1H:1899:G:H22	26:1H:1902:C:H41	1.38	0.70
26:1H:2574:G:OP1	59:1H:4377:HOH:O	2.08	0.70
26:1H:2758:A:OP2	59:1H:4321:HOH:O	2.06	0.70
39:98:91:GLN:NE2	39:98:91:GLN:O	2.24	0.70
1:1G:1288:A:N3	1:1G:1352:C:O2'	2.22	0.70
26:14:249:C:OP1	59:14:3412:HOH:O	2.09	0.70
30:29:55:ASN:O	30:29:57:LYS:N	2.24	0.70
1:13:592:G:H2'	1:13:593:G:H8	1.54	0.70
26:1H:120:U:OP2	59:1H:4083:HOH:O	2.08	0.70
26:1H:1257:C:H4'	31:31:83:PHE:CD1	2.26	0.70
34:61:120:ILE:HG12	34:61:126:TYR:CE2	2.26	0.70
37:78:18:ARG:O	37:78:19:VAL:HG13	1.92	0.70
1:1G:5:U:H3	4:32:87:GLY:H	1.37	0.70
9:82:10:ARG:NH1	9:82:105:ASP:OD2	2.24	0.70
26:14:974:G:O2'	26:14:975:G:N7	2.24	0.70
26:14:1022:G:H22	26:14:1142(A):A:H2	1.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1537:C:H2'	26:14:1538:G:C8	2.26	0.70
34:69:129:THR:HG22	34:69:137:PRO:HB3	1.72	0.70
1:13:130:A:OP2	17:8I:63:ARG:NH2	2.24	0.70
1:1G:56:U:O4	1:1G:352:C:N4	2.24	0.70
1:1G:272:C:H2'	1:1G:273:A:C8	2.26	0.70
1:1G:547:A:OP1	59:1G:1704:HOH:O	2.08	0.70
6:52:83:ASP:OD1	6:52:83:ASP:N	2.24	0.70
26:14:662:G:H5'	37:35:15:ARG:HA	1.73	0.70
26:14:2232:U:OP2	49:F5:40:ARG:NH2	2.23	0.70
33:59:6:ARG:N	33:59:6:ARG:HH11	1.90	0.70
4:3E:106:TYR:HE1	4:3E:107:ARG:HH11	1.39	0.70
7:6E:16:LEU:HD13	9:8E:44:VAL:HG22	1.74	0.70
26:1H:1417:C:OP2	59:1H:3972:HOH:O	2.09	0.70
26:1H:2334:G:O6	48:I8:74:ARG:NH2	2.25	0.70
1:1G:1074:G:O2'	1:1G:1101:A:N1	2.19	0.70
2:12:189:ASP:H	2:12:192:SER:HB2	1.56	0.70
26:14:1056:G:O2'	26:14:1103:A:N6	2.22	0.70
26:14:1828:G:OP1	59:14:3463:HOH:O	2.09	0.70
36:25:8:LEU:HD12	36:25:84:ALA:HB2	1.74	0.70
1:13:1023:G:H3'	1:13:1024:G:H5"	1.73	0.70
39:98:12:ARG:HD3	39:98:16:HIS:CG	2.25	0.70
46:G8:28:LYS:NZ	46:G8:64:GLU:OE2	2.22	0.70
55:Q8:50:LEU:C	55:Q8:52:LYS:H	1.99	0.70
9:82:40:LEU:HB3	9:82:43:ALA:HB2	1.72	0.70
11:2A:85:ARG:HD3	11:2A:113:PRO:HD3	1.73	0.70
24:3L:15:G:N2	24:3L:21:A:O2'	2.25	0.70
26:14:617:G:OP1	31:39:40:GLN:NE2	2.24	0.70
26:14:2032:G:H4'	59:14:3952:HOH:O	1.90	0.70
27:1J:11:C:OP2	27:1J:12:C:N4	2.20	0.70
32:49:83:ARG:HG2	32:49:86:MET:HE3	1.73	0.70
1:13:186(E):C:H42	1:13:191(B):G:H1	1.39	0.70
3:2E:16:ARG:NH1	3:2E:183:ASP:OD1	2.25	0.70
26:1H:1622:G:OP2	59:1H:4220:HOH:O	2.08	0.70
26:1H:1633:G:O6	59:1H:4381:HOH:O	2.06	0.70
26:1H:2016:U:OP1	59:1H:4189:HOH:O	2.10	0.70
27:16:15:A:H5'	27:16:16:G:C8	2.26	0.70
27:1J:62:C:H2'	27:1J:63:G:H8	1.55	0.70
33:59:125:VAL:HG22	33:59:126:PRO:HA	1.72	0.70
1:13:649:G:H2'	1:13:650:G:C8	2.27	0.70
1:13:859:A:H2'	1:13:860:A:C8	2.27	0.70
24:3K:49:C:O2'	24:3K:65:G:N2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:330:A:HO2'	26:1H:331:A:H8	1.39	0.70
26:1H:910:A:N7	38:88:13:GLN:HG3	2.05	0.70
26:1H:1676:A:OP2	59:1H:3614:HOH:O	2.09	0.70
32:41:173:LEU:HB3	32:41:178:PHE:HD2	1.57	0.70
33:51:7:LEU:H	33:51:7:LEU:HD12	1.56	0.70
39:98:117:VAL:HG22	39:98:118:GLU:H	1.56	0.70
1:1G:572:A:OP1	59:1G:1723:HOH:O	2.08	0.70
2:12:10:LEU:HD13	2:12:13:ALA:HB3	1.71	0.70
26:14:1260:G:H2'	26:14:1261:C:C6	2.27	0.70
38:45:26:TYR:O	38:45:28:ALA:N	2.24	0.70
43:95:15:GLU:HG2	43:95:16:PRO:HD2	1.74	0.70
1:13:838:G:H1	1:13:848:C:N4	1.90	0.70
1:13:1348:U:H3	1:13:1374:A:H2	1.35	0.70
1:13:1423:G:OP1	36:68:49:ARG:NH2	2.24	0.70
26:1H:298:G:OP2	59:1H:4102:HOH:O	2.08	0.70
26:1H:2549:G:O6	59:1H:4289:HOH:O	2.08	0.70
29:11:72:LYS:HD2	29:11:75:ILE:HD12	1.72	0.70
1:1G:690:G:H22	11:2A:55:LYS:HE2	1.57	0.70
1:1G:1493:A:H2'	26:14:1913:A:H61	1.57	0.70
26:14:910:A:H62	38:45:12:GLN:HA	1.57	0.70
26:14:2358:G:H2'	26:14:2359:C:H6	1.55	0.70
1:13:730:G:C5	1:13:731:G:H1'	2.27	0.70
1:13:1122:U:O4	1:13:1123:A:N6	2.25	0.70
26:1H:972:G:O3'	59:1H:3811:HOH:O	2.09	0.70
26:1H:996:A:H4'	42:C8:92:ARG:HE	1.56	0.70
30:21:77:ILE:O	30:21:79:ARG:N	2.25	0.70
31:31:149:ASP:OD1	31:31:149:ASP:N	2.19	0.70
32:41:97:ASP:O	32:41:100:TRP:N	2.25	0.70
3:22:25:GLY:H	3:22:28:GLN:HE22	1.38	0.70
26:14:395:U:H2'	26:14:396:G:N7	2.07	0.70
1:13:1329:A:N7	21:1F:7:ARG:NH2	2.39	0.70
26:1H:463:G:N7	59:1H:3739:HOH:O	2.24	0.70
26:1H:598:G:H5'	37:78:11:GLY:HA3	1.73	0.70
26:1H:654:A:H2'	26:1H:654(A):A:H8	1.56	0.70
11:2A:100:ALA:O	11:2A:102:GLY:N	2.25	0.70
26:14:1341:U:OP2	26:14:1394:U:O2'	2.06	0.70
26:14:1828:G:OP1	59:14:3461:HOH:O	2.09	0.70
40:65:106:ARG:NH1	40:65:106:ARG:O	2.24	0.70
52:I5:36:CYS:SG	52:I5:39:CYS:HB3	2.32	0.70
55:M5:34:TRP:CG	55:M5:35:GLN:N	2.56	0.70
1:13:659:U:H2'	1:13:660:G:H8	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:158:LEU:HD13	2:1E:182:ILE:HD11	1.73	0.69
26:1H:433:C:H2'	26:1H:434:U:C6	2.26	0.69
26:1H:1045:A:H1'	26:1H:1047:G:C4	2.26	0.69
26:1H:1588:C:H2'	26:1H:1589:C:H6	1.57	0.69
49:J8:92:LYS:HA	49:J8:95:LEU:HB2	1.74	0.69
26:14:1665:A:N6	59:14:3518:HOH:O	2.19	0.69
26:14:2393:A:H5'	37:35:62:LEU:HD13	1.74	0.69
30:29:3:GLY:HA3	30:29:81:ILE:HD12	1.73	0.69
31:39:157:VAL:HB	31:39:194:MET:HB3	1.73	0.69
33:59:9:ILE:HG22	33:59:51:ARG:HB3	1.73	0.69
43:95:71:LEU:N	43:95:86:GLY:HA2	2.07	0.69
44:A5:4:LYS:HB2	44:A5:106:ILE:HG22	1.73	0.69
46:C5:87:LYS:HB2	46:C5:96:ILE:HD11	1.73	0.69
1:13:1003:G:N2	1:13:1037:C:O2	2.22	0.69
26:1H:2820:A:OP2	39:98:2:ARG:NH2	2.25	0.69
4:32:25:ARG:HH11	4:32:31:CYS:HA	1.57	0.69
26:14:872:A:H4'	38:45:66:ILE:HD11	1.73	0.69
29:19:166:GLN:OE1	29:19:166:GLN:HA	1.91	0.69
32:49:104:GLU:O	32:49:108:ASN:ND2	2.25	0.69
33:59:81:GLU:HG3	33:59:83:TYR:H	1.57	0.69
16:7I:45:THR:HG22	16:7I:46:PRO:HD2	1.74	0.69
26:1H:2121:G:H4'	28:71:167:LYS:HD2	1.72	0.69
53:N8:50:GLY:H	53:N8:56:LYS:HG3	1.58	0.69
26:14:527:C:OP2	59:14:3940:HOH:O	2.09	0.69
30:29:97:LYS:N	30:29:100:GLU:OE1	2.24	0.69
52:I5:22:ILE:HG12	52:I5:23:GLU:N	2.07	0.69
26:1H:1203:G:H3'	26:1H:1204:A:H5"	1.74	0.69
35:58:1:MET:HE1	42:C8:95:LEU:HD11	1.74	0.69
55:Q8:7:HIS:ND1	55:Q8:7:HIS:O	2.25	0.69
1:1G:1460:A:OP2	20:BA:27:LYS:NZ	2.25	0.69
26:14:39:C:H2'	26:14:40:C:H6	1.58	0.69
26:14:654(I):C:N4	26:14:654(L):G:O6	2.25	0.69
26:14:2330:G:O2'	48:E5:41:ARG:O	2.08	0.69
29:19:24:ILE:HA	29:19:82:ILE:HG22	1.74	0.69
26:1H:877:U:H3	26:1H:899:A:H2	1.38	0.69
26:1H:2027:G:N7	59:1H:4001:HOH:O	2.25	0.69
28:71:59:ARG:HB2	28:71:164:ARG:HG3	1.73	0.69
12:3A:47:LYS:HG2	12:3A:48:PRO:HD2	1.74	0.69
1:13:1368:G:H5"	9:8E:112:LYS:HB3	1.74	0.69
9:8E:128:ARG:NH2	23:2K:36:A:OP2	2.25	0.69
26:1H:409:C:OP1	59:1H:3659:HOH:O	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1434:A:H61	26:1H:1558:A:N6	1.90	0.69
1:1G:1326:C:OP1	21:1B:17:THR:OG1	2.10	0.69
25:4L:20:A:H2'	25:4L:21:A:C8	2.27	0.69
26:14:511:U:H5	26:14:512:G:C4	2.11	0.69
26:14:547:A:N7	26:14:548:A:N6	2.41	0.69
26:14:1210:A:H5'	26:14:1212:G:H5'	1.74	0.69
26:14:2262:U:H2'	26:14:2263:C:H6	1.57	0.69
31:39:160:ASN:HB3	31:39:163:VAL:HB	1.73	0.69
38:45:117:ALA:HA	38:45:120:ILE:HB	1.73	0.69
1:13:1062:U:H2'	1:13:1063:C:C6	2.28	0.69
30:21:29:GLY:H	30:21:51:PHE:HE1	1.40	0.69
45:F8:44:GLU:HG3	45:F8:51:VAL:HG23	1.73	0.69
1:1G:158:G:H1	1:1G:163:C:H42	1.38	0.69
2:12:58:ILE:O	2:12:62:ALA:N	2.25	0.69
3:22:70:VAL:HG12	3:22:72:LYS:H	1.58	0.69
3:22:141:VAL:HA	3:22:144:SER:HB3	1.73	0.69
19:AA:9:VAL:HG13	52:I5:63:TYR:HE1	1.58	0.69
26:14:1111:A:H4'	33:59:3:ARG:HD3	1.74	0.69
26:14:1970:A:OP1	59:14:3467:HOH:O	2.11	0.69
26:14:2238:G:N7	59:14:3615:HOH:O	2.25	0.69
27:1J:9:G:H5'	40:65:25:ARG:HH12	1.58	0.69
32:49:114:ILE:HG22	32:49:117:PHE:HB2	1.75	0.69
1:13:736:C:H2'	1:13:737:A:C8	2.27	0.69
1:13:1023:G:OP2	1:13:1024:G:N2	2.24	0.69
1:13:1034:G:N2	1:13:1035:A:N7	2.39	0.69
1:13:1124:G:O2'	1:13:1145:C:N4	2.25	0.69
5:4E:99:GLY:N	5:4E:117:ASP:HB3	2.01	0.69
19:AI:58:VAL:HG11	19:AI:75:ALA:HB1	1.75	0.69
26:1H:586:A:OP2	59:1H:3821:HOH:O	2.09	0.69
26:1H:722:A:H2'	26:1H:723:G:C8	2.27	0.69
26:1H:778:G:O6	59:1H:4021:HOH:O	2.09	0.69
26:1H:1139:G:O2'	26:1H:1143:A:N1	2.23	0.69
26:1H:1516:U:H2'	26:1H:1517:G:C8	2.28	0.69
26:1H:2712(A):A:OP2	59:1H:3576:HOH:O	2.10	0.69
26:1H:2792:G:N1	26:1H:2804:C:N3	2.40	0.69
37:78:39:LYS:HG3	37:78:45:LEU:HD22	1.74	0.69
38:88:85:LYS:HG3	38:88:86:GLY:N	2.07	0.69
1:1G:542:G:OP1	4:32:10:ARG:NH2	2.26	0.69
17:8A:63:ARG:HG2	17:8A:64:PRO:HD2	1.75	0.69
24:3L:53:G:N2	24:3L:61:C:N3	2.40	0.69
26:14:592:G:H1	26:14:665:C:H42	1.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1971:A:OP1	59:14:3466:HOH:O	2.09	0.69
30:29:11:MET:HA	30:29:24:THR:HA	1.74	0.69
1:13:673:G:H2'	1:13:674:G:C8	2.28	0.69
1:13:711:G:H2'	1:13:712:A:C8	2.27	0.69
1:13:1071:C:H2'	1:13:1072:G:C8	2.28	0.69
3:2E:95:THR:HB	3:2E:97:LYS:HZ3	1.57	0.69
11:2I:78:GLN:O	11:2I:103:LEU:HA	1.92	0.69
11:2I:79:SER:HB2	11:2I:106:LYS:HD2	1.75	0.69
27:16:8:U:O2	27:16:112:G:N1	2.20	0.69
45:F8:36:LYS:HG2	45:F8:54:VAL:HB	1.75	0.69
26:14:2518:A:OP2	59:14:3955:HOH:O	2.09	0.69
29:19:255:LYS:CE	29:19:255:LYS:H	2.06	0.69
9:8E:42:ARG:NH1	9:8E:71:SER:O	2.26	0.69
26:1H:2377:A:H2'	26:1H:2378:A:C8	2.28	0.69
26:1H:2502:G:OP2	59:1H:3531:HOH:O	2.10	0.69
26:1H:2582:G:OP2	59:1H:3736:HOH:O	2.10	0.69
29:11:93:ALA:HB3	29:11:105:ILE:HG22	1.74	0.69
31:31:6:VAL:N	31:31:24:LEU:O	2.25	0.69
53:N8:30:LEU:HD23	53:N8:41:PRO:HA	1.73	0.69
1:1G:426:G:OP1	4:32:36:ARG:NH2	2.26	0.69
1:1G:838:G:N2	1:1G:849:C:N3	2.41	0.69
1:1G:1086:U:H3	1:1G:1099:G:H22	1.39	0.69
1:1G:1435:G:H2'	1:1G:1436:U:C6	2.28	0.69
19:AA:37:ARG:O	19:AA:70:LYS:NZ	2.26	0.69
24:3L:20:U:O2'	24:3L:21:A:OP2	2.11	0.69
26:14:30:G:N1	26:14:511:U:O2	2.26	0.69
26:14:120:U:OP2	59:14:3923:HOH:O	2.10	0.69
35:15:13:TRP:O	35:15:135:PRO:HD2	1.93	0.69
37:35:47:ASP:OD1	37:35:49:ARG:NE	2.18	0.69
39:55:32:GLY:HA2	39:55:116:LEU:HD12	1.73	0.69
1:13:8:A:N7	4:3E:208:SER:HB3	2.08	0.68
1:13:223:U:H2'	1:13:224:C:H6	1.58	0.68
1:13:661:G:H1	1:13:744:C:H42	1.41	0.68
15:6I:39:LEU:HD13	15:6I:56:LEU:HD12	1.75	0.68
26:1H:534:U:H5'	42:C8:42:ALA:HB1	1.75	0.68
26:1H:882:G:H22	26:1H:894:C:H42	1.42	0.68
26:1H:1525:G:H2'	26:1H:1526:G:H8	1.57	0.68
26:1H:2685:G:N7	59:1H:4036:HOH:O	2.25	0.68
38:88:66:ILE:HG22	38:88:67:ARG:H	1.58	0.68
48:I8:11:ARG:O	48:I8:14:ARG:NH2	2.24	0.68
1:1G:328:C:O2	1:1G:328:C:H2'	1.90	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:444:C:O2	1:1G:490:G:N2	2.14	0.68
26:14:586:A:H5'	31:39:89:VAL:HG21	1.74	0.68
26:14:1225:C:O3'	43:95:85:LYS:HA	1.93	0.68
26:14:2098:U:N3	26:14:2191:G:O6	2.20	0.68
6:5E:27:GLN:HA	6:5E:30:LEU:HD12	1.75	0.68
8:7E:7:ALA:HB2	8:7E:85:ARG:HD2	1.75	0.68
26:1H:1109:C:O2'	26:1H:1110:G:O4'	2.11	0.68
26:14:861:A:N3	27:1J:79:C:O2'	2.27	0.68
33:59:30:LYS:HB3	33:59:79:VAL:O	1.93	0.68
38:45:89:ASN:ND2	38:45:89:ASN:O	2.24	0.68
2:1E:16:HIS:HE1	2:1E:213:LEU:HD13	1.58	0.68
5:4E:8:GLU:OE1	5:4E:63:ARG:NH2	2.25	0.68
26:1H:751:A:OP1	59:1H:3863:HOH:O	2.10	0.68
34:61:38:LEU:H	34:61:38:LEU:HD12	1.57	0.68
36:68:98:VAL:HG11	36:68:114:ILE:HG23	1.74	0.68
1:1G:167:G:H2'	1:1G:168:G:H8	1.59	0.68
1:1G:1346:A:H5"	1:1G:1348:U:H1'	1.74	0.68
29:19:182:LEU:H	29:19:272:ALA:HB2	1.58	0.68
40:65:85:VAL:N	40:65:110:LEU:HB3	2.08	0.68
46:C5:19:LYS:HG3	46:C5:20:TYR:H	1.56	0.68
1:13:728:A:N7	15:6I:54:ARG:HD2	2.08	0.68
1:13:1503:A:O2'	25:4K:13:A:N1	2.24	0.68
2:1E:165:VAL:HG23	2:1E:166:ASP:H	1.56	0.68
26:1H:10:G:N2	26:1H:2801:A:O2'	2.26	0.68
55:Q8:9:GLY:HA2	55:Q8:12:LYS:HB2	1.74	0.68
1:1G:1182:G:H5'	1:1G:1183:A:H5'	1.75	0.68
1:1G:1226:C:O2'	13:4A:111:LYS:NZ	2.22	0.68
1:1G:1454:G:OP1	20:BA:39:LYS:NZ	2.26	0.68
3:22:75:VAL:O	3:22:83:ARG:NH2	2.26	0.68
15:6A:62:GLN:HA	15:6A:65:ARG:HD2	1.74	0.68
29:19:32:SER:O	29:19:33:LEU:HB2	1.92	0.68
20:BI:43:LEU:HD13	20:BI:51:GLU:HB3	1.74	0.68
26:1H:326:G:N7	59:1H:3762:HOH:O	2.26	0.68
34:61:37:VAL:HG22	34:61:38:LEU:HD12	1.76	0.68
56:2L:33:OMC:HM22	56:2L:34:U:H5'	1.74	0.68
26:14:1590:U:H2'	26:14:1591:G:H8	1.59	0.68
40:65:28:VAL:HG11	40:65:98:VAL:HG12	1.76	0.68
1:13:446:G:H1	1:13:488:C:H42	1.41	0.68
7:6E:37:ASN:OD1	9:8E:41:VAL:HG23	1.94	0.68
13:4I:93:ARG:HH22	26:1H:888:C:H5	1.41	0.68
26:1H:2788:C:O2'	26:1H:2809:A:N3	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:19:VAL:HG12	37:78:21:ARG:H	1.57	0.68
41:B8:26:ASP:HB3	41:B8:92:GLY:H	1.57	0.68
43:D8:34:GLU:HB2	43:D8:58:VAL:HG22	1.74	0.68
53:N8:16:ARG:HG3	53:N8:17:ASP:N	2.07	0.68
1:1G:456:C:H42	1:1G:476:G:H1	1.40	0.68
26:14:511:U:H5	26:14:512:G:C5	2.11	0.68
26:14:1059:G:H5"	26:14:1060:U:H5"	1.74	0.68
26:14:1486:A:H2'	26:14:1487:G:C8	2.29	0.68
44:A5:71:VAL:HA	44:A5:107:LEU:HD12	1.74	0.68
1:13:1007:C:N4	1:13:1022:G:H1	1.92	0.68
26:1H:357:A:H2'	26:1H:358:U:C6	2.29	0.68
26:1H:2801:A:H5'	26:1H:2895:U:H1'	1.76	0.68
52:M8:65:ASP:OD1	52:M8:65:ASP:N	2.26	0.68
24:3L:16:U:H2'	24:3L:60:U:O2	1.94	0.68
41:75:51:ARG:HG2	41:75:98:LYS:HD2	1.76	0.68
42:85:92:ARG:CZ	43:95:11:GLN:H	2.06	0.68
1:13:35:G:O2'	12:3I:118:SER:O	2.09	0.68
26:1H:226:G:H21	26:1H:228:A:H2	1.39	0.68
26:1H:1021:A:H8	26:1H:1021:A:H3'	1.59	0.68
26:1H:1062:G:H2'	26:1H:1063:G:C8	2.28	0.68
26:1H:2250:G:C4	38:88:82:ARG:HG2	2.28	0.68
27:16:91:C:H5"	47:H8:79:ARG:NH2	2.09	0.68
32:41:106:LEU:HG	32:41:111:LEU:HD11	1.74	0.68
32:41:139:LEU:HD13	32:41:146:TYR:HD2	1.58	0.68
35:58:94:HIS:HB2	35:58:97:ARG:HD2	1.75	0.68
51:L8:56:VAL:HG12	51:L8:57:GLU:H	1.59	0.68
1:1G:596:C:H2'	1:1G:597:G:H8	1.59	0.68
1:1G:1151:A:O2'	1:1G:1152:A:O4'	2.11	0.68
8:72:64:LYS:HB3	8:72:79:VAL:HG21	1.76	0.68
26:14:1428:C:N4	26:14:1570:A:OP2	2.25	0.68
26:14:1824:G:OP1	29:19:52:ARG:NH1	2.27	0.68
26:14:2709:G:N3	59:14:3438:HOH:O	2.27	0.68
37:35:125:VAL:HG13	37:35:144:GLU:HB3	1.75	0.68
1:13:1121:U:H3	1:13:1152:A:H61	1.41	0.68
22:1K:58:A:C5	22:1K:59:A:H2	2.12	0.68
26:1H:714:U:O2'	26:1H:716:A:N7	2.26	0.68
26:1H:2249:U:O4	59:1H:3638:HOH:O	2.08	0.68
26:1H:2419:U:O4	55:Q8:29:LYS:NZ	2.17	0.68
1:1G:707:C:OP1	11:2A:85:ARG:NH1	2.27	0.68
26:14:1485:G:H1	26:14:1504:C:H42	1.40	0.68
26:14:1997:G:H5"	59:14:3511:HOH:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2127:G:N1	26:14:2161:C:N3	2.38	0.68
29:19:40:THR:OG1	29:19:41:GLY:N	2.27	0.68
33:59:19:VAL:HG12	33:59:20:ALA:H	1.58	0.68
38:45:85:LYS:HG2	38:45:86:GLY:H	1.59	0.68
1:13:376:G:O3'	16:7I:5:ARG:NH1	2.26	0.68
1:13:1145:C:H4'	1:13:1146:A:H5'	1.76	0.68
26:1H:270(E):G:H1	26:1H:270(U):C:H42	1.41	0.68
26:1H:2271:G:N7	59:1H:4193:HOH:O	2.27	0.68
32:41:111:LEU:H	32:41:111:LEU:HD12	1.56	0.68
32:41:122:PRO:HD3	32:41:181:ARG:HB3	1.75	0.68
46:G8:30:VAL:HG13	46:G8:37:VAL:HG12	1.74	0.68
1:1G:1248:A:N3	9:82:70:LYS:NZ	2.42	0.68
26:14:587:C:OP2	37:35:21:ARG:NH2	2.27	0.68
26:14:2018:G:OP1	53:J5:9:LYS:NZ	2.26	0.68
1:13:617:G:H5'	16:7I:45:THR:HG23	1.75	0.67
1:13:1218:C:H2'	1:13:1219:U:C6	2.29	0.67
19:AI:78:ARG:HH11	19:AI:79:THR:HA	1.59	0.67
26:1H:241:A:H5"	59:1H:4217:HOH:O	1.93	0.67
26:1H:1332:G:N2	26:1H:1609:A:O2'	2.27	0.67
47:H8:13:GLU:HB3	47:H8:18:LEU:HD11	1.74	0.67
1:1G:1126:U:H4'	1:1G:1127:G:C8	2.29	0.67
1:1G:1329:A:H2'	1:1G:1330:U:O4'	1.94	0.67
26:14:563:G:OP2	59:14:3934:HOH:O	2.10	0.67
26:14:1342:A:H2	26:14:1602:U:H3	1.42	0.67
26:14:2123:G:H2'	26:14:2124:G:C8	2.28	0.67
29:19:17:THR:O	29:19:211:ARG:NH2	2.26	0.67
31:39:192:LEU:HD23	31:39:193:VAL:H	1.59	0.67
38:45:34:LEU:HB2	38:45:118:LEU:HD22	1.77	0.67
48:E5:56:ASP:OD1	48:E5:58:THR:OG1	2.11	0.67
20:BI:89:ARG:HD2	20:BI:104:LEU:HD21	1.76	0.67
26:1H:589:C:H2'	26:1H:590:A:H8	1.59	0.67
26:1H:1533:C:H3'	26:1H:1534:G:H5"	1.75	0.67
26:1H:1728:G:H3'	26:1H:1729:A:H5"	1.76	0.67
28:71:20:TYR:O	28:71:225:ASN:N	2.21	0.67
32:41:112:PRO:HB3	52:M8:37:SER:N	2.08	0.67
47:H8:163:LEU:HD12	47:H8:165:VAL:HG12	1.77	0.67
1:1G:377:G:H1	1:1G:386:C:H42	1.42	0.67
1:1G:963:G:H21	10:1A:55:LYS:NZ	1.92	0.67
1:1G:979:C:OP1	1:1G:1223:C:N4	2.27	0.67
9:82:17:VAL:HA	9:82:63:ILE:HG12	1.75	0.67
1:13:1159:U:O4'	1:13:1182:G:N2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1352:C:OP1	21:1F:3:LYS:NZ	2.21	0.67
13:4I:5:ALA:HB2	13:4I:61:GLU:HG3	1.75	0.67
1:1G:1375:A:H4'	7:62:29:LYS:HE3	1.77	0.67
7:62:67:GLU:OE2	7:62:70:LYS:NZ	2.25	0.67
12:3A:55:VAL:HG23	12:3A:69:TYR:HA	1.74	0.67
26:14:1268:A:H2'	26:14:1269:A:O4'	1.94	0.67
33:59:106:THR:HG22	33:59:112:PRO:HB3	1.77	0.67
26:1H:2406:U:OP1	59:1H:3642:HOH:O	2.11	0.67
27:16:3:C:H2'	27:16:4:C:H6	1.59	0.67
30:21:94:GLU:OE2	30:21:177:PRO:HB3	1.94	0.67
30:21:116:VAL:O	30:21:117:MET:HB3	1.94	0.67
42:C8:88:ILE:O	42:C8:90:VAL:N	2.28	0.67
53:N8:40:LYS:HG3	53:N8:47:PRO:HD2	1.76	0.67
21:1B:9:ARG:HE	21:1B:10:ARG:HG3	1.58	0.67
26:14:270(K):C:H42	26:14:270(M):U:H1'	1.59	0.67
26:14:619:G:H5"	26:14:620:G:N2	2.08	0.67
26:14:1021:A:H62	26:14:1141:U:H3	1.42	0.67
41:75:77:PRO:HG2	41:75:80:SER:HB2	1.75	0.67
1:13:422:C:O2'	1:13:423:G:OP2	2.11	0.67
26:1H:997:G:OP1	42:C8:93:LYS:HG3	1.95	0.67
26:1H:2592:G:OP1	59:1H:4405:HOH:O	2.13	0.67
27:16:7:G:H4'	40:A8:29:PHE:CD2	2.30	0.67
30:21:147:PRO:HB2	30:21:149:ARG:HG2	1.76	0.67
46:G8:94:LYS:HA	46:G8:94:LYS:HZ2	1.59	0.67
1:1G:804:U:H5"	1:1G:805:C:OP2	1.94	0.67
1:1G:1141:C:H2'	1:1G:1142:G:C8	2.29	0.67
4:32:60:GLU:OE2	4:32:199:ASN:N	2.27	0.67
4:32:141:ARG:N	4:32:144:ASP:OD2	2.23	0.67
20:BA:49:ALA:HB2	20:BA:92:LEU:HD22	1.77	0.67
26:14:945:A:H2	59:14:3690:HOH:O	1.77	0.67
26:14:1137:G:H2'	26:14:1138:G:H8	1.59	0.67
1:13:146:G:N2	1:13:176:C:O2	2.27	0.67
1:13:153:C:H42	1:13:168:G:H1	1.43	0.67
1:13:1149:C:H2'	1:13:1150:U:H6	1.59	0.67
30:21:82:ARG:O	30:21:84:PHE:N	2.28	0.67
44:E8:65:LEU:HD12	44:E8:68:ARG:HH11	1.59	0.67
1:1G:108:G:H5'	1:1G:109:A:H5"	1.76	0.67
1:1G:352:C:O2'	1:1G:354:G:OP1	2.11	0.67
1:1G:424:G:H2'	1:1G:425:G:H8	1.59	0.67
26:14:1786:A:OP1	59:14:3456:HOH:O	2.12	0.67
26:14:1869:G:N2	26:14:1872:A:OP2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:45:97:VAL:HG11	38:45:103:MET:HE3	1.76	0.67
6:5E:36:ARG:NH2	6:5E:38:GLU:OE2	2.26	0.67
26:1H:252:G:OP2	37:78:50:ARG:NH1	2.27	0.67
26:1H:1021:A:H3'	26:1H:1021:A:C8	2.30	0.67
26:1H:1164:G:H2'	26:1H:1165:U:C6	2.29	0.67
26:1H:1828:G:OP2	59:1H:4363:HOH:O	2.13	0.67
26:1H:2210:G:H5'	26:1H:2211:G:C8	2.29	0.67
32:41:64:THR:HG22	32:41:66:GLN:N	2.10	0.67
47:H8:128:VAL:HG23	47:H8:161:VAL:HG21	1.77	0.67
53:N8:42:PRO:HB2	53:N8:43:HIS:ND1	2.09	0.67
26:14:2400:G:H3'	26:14:2401:U:H6	1.60	0.67
48:E5:50:ASN:C	48:E5:62:LEU:HD12	2.20	0.67
49:F5:56:GLN:NE2	49:F5:84:GLY:H	1.92	0.67
26:1H:483:A:OP1	46:G8:50:ARG:NH2	2.28	0.67
26:1H:880:G:N2	26:1H:881:G:N7	2.40	0.67
1:1G:457:C:H2'	1:1G:458:C:C6	2.29	0.67
1:1G:1263:C:N3	1:1G:1273:G:N2	2.42	0.67
3:22:113:ALA:HA	3:22:202:ILE:HD11	1.77	0.67
14:5A:21:TYR:OH	14:5A:23:ARG:NH2	2.28	0.67
26:14:144:C:H2'	26:14:145:G:H8	1.58	0.67
26:14:459:U:H4'	54:L5:40:TRP:CZ3	2.29	0.67
26:14:646:A:H2'	26:14:647:G:O4'	1.94	0.67
32:49:4:ASP:OD1	32:49:9:ARG:NH2	2.26	0.67
1:13:1263:C:H2'	1:13:1264:C:H6	1.57	0.67
26:1H:860:U:C5	26:1H:917:A:H2	2.13	0.67
26:1H:2108:C:O2	26:1H:2181:G:N2	2.26	0.67
34:61:47:LEU:HA	34:61:50:ARG:HD3	1.77	0.67
35:58:90:MET:HG2	35:58:98:VAL:HG12	1.76	0.67
1:1G:501:C:H2'	1:1G:502:G:H8	1.59	0.67
12:3A:89:ARG:HG3	12:3A:97:ARG:HA	1.77	0.67
26:14:731:C:OP1	59:14:3974:HOH:O	2.12	0.67
26:14:1997:G:OP2	59:14:3512:HOH:O	2.13	0.67
47:D5:155:LEU:HD12	47:D5:163:LEU:HD13	1.77	0.67
1:13:688:G:H2'	1:13:689:C:H6	1.59	0.67
1:13:1452:C:O2'	1:13:1453:G:OP2	2.09	0.67
4:3E:65:ARG:NH1	4:3E:70:ILE:O	2.27	0.67
26:1H:855:G:O2'	48:I8:27:GLU:OE2	2.12	0.67
26:1H:1639:U:OP2	59:1H:3546:HOH:O	2.13	0.67
26:1H:1772:G:OP1	59:1H:4394:HOH:O	2.13	0.67
26:1H:1778:U:H2'	26:1H:1784:A:H62	1.58	0.67
26:1H:1845:G:OP1	29:11:258:LYS:NZ	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2409:G:N7	59:1H:3646:HOH:O	2.27	0.67
26:1H:2593:U:H2'	26:1H:2594:C:C6	2.30	0.67
28:71:182:PRO:HA	28:71:185:LEU:HD12	1.77	0.67
29:11:68:LYS:HB3	29:11:70:TRP:CH2	2.30	0.67
1:1G:32:A:H2'	1:1G:33:A:C8	2.29	0.67
4:32:60:GLU:HG2	4:32:202:LEU:HB2	1.77	0.67
26:14:1292:U:H2'	26:14:1293:C:C6	2.29	0.67
26:14:1451:C:H42	26:14:1459:G:H1	1.41	0.67
8:7E:51:VAL:HG21	8:7E:60:ARG:HD2	1.77	0.66
9:8E:121:ARG:NH1	9:8E:122:ALA:O	2.27	0.66
12:3I:70:ILE:HD13	12:3I:77:LEU:HD12	1.77	0.66
26:1H:350:U:H2'	26:1H:351:G:C8	2.30	0.66
26:1H:1899:G:N2	26:1H:1902:C:C5	2.62	0.66
26:14:587:C:O2	37:35:33:ARG:NH1	2.28	0.66
26:14:1222:C:O2	26:14:1229:G:N2	2.25	0.66
26:14:1388:G:H2'	26:14:1389:G:H8	1.60	0.66
26:14:1520:U:H2'	26:14:1521:G:O4'	1.95	0.66
36:25:2:ILE:HD12	36:25:6:THR:HG21	1.76	0.66
1:13:1334:G:N7	59:13:1927:HOH:O	2.27	0.66
9:8E:46:ALA:HB2	9:8E:74:ILE:HG23	1.75	0.66
18:9I:19:LYS:HG2	18:9I:55:ARG:HD3	1.77	0.66
52:M8:37:SER:OG	52:M8:42:PHE:O	2.12	0.66
1:1G:740:U:H2'	1:1G:741:G:H8	1.60	0.66
16:7A:22:THR:HA	16:7A:33:ILE:HG12	1.77	0.66
20:BA:69:GLY:O	20:BA:73:HIS:NE2	2.28	0.66
26:14:127:A:H5"	26:14:128:C:C6	2.30	0.66
26:14:1210:A:H5'	26:14:1212:G:C5'	2.26	0.66
26:14:2343:C:O2'	26:14:2373:G:O2'	2.09	0.66
29:19:33:LEU:HD21	29:19:103:ARG:HA	1.77	0.66
34:69:29:TYR:HD2	34:69:30:LEU:HD23	1.61	0.66
1:13:674:G:H2'	1:13:675:A:H8	1.60	0.66
1:13:1347:G:H5"	9:8E:107:ARG:HG2	1.77	0.66
11:2I:18:ARG:NH2	11:2I:35:PRO:O	2.27	0.66
26:1H:831:G:N7	59:1H:4064:HOH:O	2.28	0.66
26:1H:860:U:H5	26:1H:917:A:H2	1.39	0.66
26:1H:1315:C:OP2	59:1H:3884:HOH:O	2.14	0.66
26:1H:2402:C:H5	26:1H:2415:G:H22	1.41	0.66
34:61:3:VAL:HG12	34:61:38:LEU:HA	1.78	0.66
38:88:66:ILE:HG22	38:88:67:ARG:N	2.10	0.66
1:1G:862:C:H2'	1:1G:863:U:H6	1.60	0.66
7:62:20:ASP:HB3	7:62:23:VAL:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1190:G:OP1	37:35:32:THR:HA	1.96	0.66
41:75:106:SER:HA	41:75:110:ILE:HD12	1.76	0.66
1:13:371:G:O2'	1:13:373:A:N7	2.28	0.66
26:1H:779:U:OP1	29:11:49:ILE:HG13	1.95	0.66
26:1H:780:G:H21	26:1H:783:A:H62	1.42	0.66
26:1H:1670:C:OP1	59:1H:3573:HOH:O	2.13	0.66
26:1H:2318:G:H22	40:A8:2:ALA:N	1.92	0.66
42:C8:110:VAL:O	42:C8:114:LYS:N	2.22	0.66
46:G8:10:GLY:HA3	46:G8:106:LEU:HD22	1.78	0.66
1:1G:536:C:OP2	59:1G:1732:HOH:O	2.12	0.66
6:52:30:LEU:HB3	6:52:35:ALA:HB3	1.77	0.66
13:4A:84:ILE:HG12	19:AA:63:THR:HG21	1.78	0.66
26:14:453:C:OP1	59:14:3643:HOH:O	2.13	0.66
26:14:2392:A:OP2	55:M5:32:LEU:HD22	1.95	0.66
29:19:223:GLY:HA3	29:19:231:HIS:CE1	2.31	0.66
33:59:83:TYR:HA	33:59:134:SER:HB3	1.77	0.66
41:75:36:GLU:OE1	41:75:41:ARG:NH1	2.29	0.66
1:13:179:A:H2'	1:13:180:U:H6	1.60	0.66
1:13:1128:C:O2	1:13:1144:G:N2	2.29	0.66
16:7I:8:ARG:HB3	16:7I:28:ARG:NH1	2.09	0.66
24:3K:5:G:N2	24:3K:68:C:N3	2.43	0.66
26:1H:376:C:OP1	59:1H:3664:HOH:O	2.11	0.66
31:31:63:LYS:HE2	31:31:67:GLN:HB2	1.76	0.66
51:L8:7:LYS:HG3	51:L8:34:GLU:HG2	1.76	0.66
7:62:144:MET:HE2	24:3L:41:C:H1'	1.78	0.66
30:29:147:PRO:HB2	30:29:149:ARG:HG2	1.77	0.66
1:13:1004:A:H1'	1:13:1036:G:H22	1.59	0.66
26:1H:666:G:H1'	55:Q8:4:MET:HE3	1.78	0.66
26:1H:1253:A:C8	59:1H:3629:HOH:O	2.48	0.66
37:78:49:ARG:HG3	55:Q8:57:ARG:HH11	1.61	0.66
42:C8:92:ARG:HD2	43:D8:11:GLN:HB2	1.78	0.66
1:1G:829:G:N2	1:1G:857:C:O2	2.22	0.66
1:1G:1079:G:H5"	5:42:45:PHE:HZ	1.61	0.66
26:14:67:U:H2'	26:14:68:G:C8	2.31	0.66
26:14:539:G:H1	26:14:554:U:H3	1.43	0.66
26:14:1011:G:OP2	42:85:66:ASN:ND2	2.25	0.66
26:14:1423:G:H2'	26:14:1424:G:H8	1.60	0.66
26:14:2378:A:H4'	40:65:23:ARG:HH11	1.61	0.66
30:29:66:HIS:HB3	30:29:68:ALA:HB2	1.77	0.66
34:69:77:LEU:HD22	34:69:141:LYS:HD2	1.77	0.66
39:55:3:HIS:ND1	59:55:303:HOH:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:55:24:GLN:HB3	39:55:44:LEU:HD11	1.78	0.66
5:4E:81:GLU:HG2	5:4E:90:VAL:HG23	1.78	0.66
26:1H:1996:C:OP1	36:68:31:LYS:NZ	2.26	0.66
1:1G:456:C:N3	1:1G:476:G:N2	2.42	0.66
13:4A:84:ILE:C	13:4A:86:CYS:H	2.03	0.66
26:14:534:U:H5'	42:85:42:ALA:HB1	1.78	0.66
26:14:1449(A):G:H2'	26:14:1450:C:C6	2.30	0.66
26:14:2379:G:O2'	40:65:17:ARG:NH1	2.25	0.66
26:14:2431:U:OP1	59:14:3414:HOH:O	2.13	0.66
19:AI:78:ARG:HD2	19:AI:78:ARG:C	2.21	0.66
26:1H:817:C:OP2	59:1H:3815:HOH:O	2.13	0.66
26:1H:1786:A:H2	26:1H:2606:C:H1'	1.60	0.66
50:K8:31:GLU:O	50:K8:35:LEU:HD12	1.96	0.66
1:1G:111:G:H8	1:1G:111:G:O5'	1.78	0.66
1:1G:1292:U:H2'	1:1G:1293:G:H8	1.61	0.66
4:32:14:ARG:HG3	4:32:14:ARG:NH1	2.11	0.66
4:32:177:ASP:OD2	4:32:182:LYS:NZ	2.28	0.66
24:3L:26:A:N6	24:3L:44:G:O6	2.29	0.66
26:14:674:G:O2'	31:39:74:ARG:HG3	1.95	0.66
1:13:330:C:O2	59:13:1879:HOH:O	2.11	0.66
1:13:517:G:N1	1:13:533:A:OP2	2.29	0.66
1:13:918:A:H2'	1:13:919:A:C8	2.30	0.66
2:1E:184:VAL:N	2:1E:198:ASP:OD2	2.22	0.66
37:78:19:VAL:HG21	37:78:27:HIS:ND1	2.11	0.66
37:78:66:GLY:O	37:78:68:GLN:NE2	2.28	0.66
8:72:110:ALA:HB3	8:72:121:ASP:HB3	1.78	0.66
26:14:548:A:C6	26:14:549:G:H1'	2.31	0.66
32:49:133:LEU:HD11	32:49:157:ILE:HD12	1.77	0.66
39:55:14:SER:HA	39:55:17:ARG:NH1	2.11	0.66
45:B5:41:ASN:HA	45:B5:44:GLU:HB2	1.78	0.66
9:8E:112:LYS:HA	9:8E:119:ALA:HB2	1.77	0.66
14:5I:27:CYS:HB2	14:5I:29:ARG:H	1.61	0.66
26:1H:861:A:N3	27:16:79:C:O2'	2.27	0.66
1:1G:539:A:OP2	12:3A:115:LYS:NZ	2.28	0.66
1:1G:1382:C:O2'	24:3L:34:G:N7	2.19	0.66
3:22:65:ALA:HA	3:22:100:ALA:HB3	1.76	0.66
26:14:796:C:H2'	26:14:797:C:C6	2.30	0.66
26:14:984:A:H5"	26:14:985:C:H5	1.61	0.66
26:14:2134:A:HO2'	26:14:2159:G:N2	1.94	0.66
26:14:2414:G:H21	37:35:67:MET:HE1	1.61	0.66
26:14:2415:G:H4'	37:35:67:MET:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2468:G:H3'	26:14:2476:A:N1	2.11	0.66
26:14:2849:U:H4'	26:14:2868:A:C2	2.31	0.66
30:29:8:LYS:HB3	30:29:193:GLY:H	1.61	0.66
34:69:124:GLY:H	34:69:142:VAL:HG12	1.61	0.66
35:15:111:PRO:HA	35:15:114:ARG:NH1	2.09	0.66
36:25:98:VAL:HG12	36:25:117:LEU:HB3	1.77	0.66
46:C5:13:VAL:HG12	46:C5:74:PRO:HA	1.77	0.66
46:C5:97:ARG:NH1	46:C5:104:GLY:O	2.29	0.66
1:13:1297:C:OP1	13:4I:13:LYS:NZ	2.28	0.65
6:5E:39:LYS:HB2	6:5E:39:LYS:NZ	2.10	0.65
26:1H:107:C:H2'	26:1H:108:U:H6	1.62	0.65
26:1H:1988:C:H2'	26:1H:1989:G:H8	1.60	0.65
29:11:112:GLN:O	29:11:115:GLN:HG3	1.95	0.65
29:11:182:LEU:H	29:11:272:ALA:HB3	1.61	0.65
49:J8:73:LEU:HD11	49:J8:95:LEU:HD21	1.78	0.65
55:Q8:21:LYS:HG3	55:Q8:53:PRO:HD3	1.78	0.65
11:2A:21:ILE:HB	11:2A:84:VAL:HG12	1.78	0.65
26:14:1538:G:H2'	26:14:1539:G:H8	1.60	0.65
31:39:78:ILE:HA	31:39:83:PHE:CD2	2.31	0.65
33:59:86:GLU:HB2	33:59:132:ARG:HA	1.77	0.65
1:13:422:C:H6	1:13:422:C:H5"	1.61	0.65
18:9I:53:ARG:HH21	18:9I:60:ALA:N	1.94	0.65
26:1H:250:G:P	37:78:60:MET:HE1	2.37	0.65
30:21:31:CYS:HB3	30:21:49:LEU:HG	1.78	0.65
47:H8:4:ARG:NH1	47:H8:60:GLU:OE2	2.29	0.65
1:1G:316:G:OP2	1:1G:351:G:O2'	2.12	0.65
1:1G:1294:G:H2'	1:1G:1295:G:C8	2.31	0.65
26:14:748:G:C8	44:A5:89:ALA:HB1	2.30	0.65
26:14:1849:G:H2'	26:14:1850:G:H8	1.58	0.65
1:13:1064:G:H4'	1:13:1065:U:OP1	1.96	0.65
1:13:1306:A:H61	1:13:1331:G:H1'	1.62	0.65
17:8I:100:LYS:HB3	17:8I:101:ARG:HE	1.62	0.65
26:1H:1678:G:H22	26:1H:1989:G:H22	1.44	0.65
28:71:15:ASP:O	28:71:20:TYR:OH	2.14	0.65
1:1G:1430:C:H2'	1:1G:1431:C:C6	2.32	0.65
12:3A:41:ARG:HB3	12:3A:41:ARG:HH11	1.60	0.65
20:BA:89:ARG:HH11	20:BA:104:LEU:HB3	1.60	0.65
56:2L:19:G:N2	56:2L:59:A:O4'	2.30	0.65
26:14:2650:U:H2'	26:14:2651:C:H6	1.60	0.65
26:14:2655:G:O2'	26:14:2664:G:O6	2.12	0.65
1:13:159:G:O2'	1:13:161:A:N7	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:160:A:H1'	1:13:344:A:H8	1.62	0.65
2:1E:5:ILE:HG13	2:1E:6:THR:H	1.62	0.65
7:6E:5:ARG:NE	7:6E:7:ALA:HA	2.11	0.65
8:7E:121:ASP:OD2	8:7E:125:ARG:NH2	2.28	0.65
11:2I:59:TYR:CE2	11:2I:63:LEU:HD11	2.31	0.65
20:BI:26:ASN:HB2	20:BI:71:THR:HG23	1.78	0.65
26:1H:524:U:H2'	26:1H:525:U:C6	2.31	0.65
26:1H:1337:G:H2'	26:1H:1338:G:H8	1.61	0.65
31:31:9:ILE:HG12	31:31:10:PRO:HD2	1.77	0.65
50:K8:6:VAL:O	50:K8:7:ARG:HB3	1.97	0.65
1:1G:352:C:OP2	59:1G:1713:HOH:O	2.13	0.65
1:1G:587:G:N2	1:1G:754:C:OP2	2.29	0.65
20:BA:67:ALA:HA	20:BA:73:HIS:HA	1.78	0.65
31:39:25:PRO:HB2	31:39:27:GLU:HB2	1.77	0.65
32:49:6:ALA:N	52:I5:23:GLU:OE2	2.30	0.65
46:C5:48:ALA:HB3	46:C5:59:GLY:O	1.96	0.65
26:1H:456:C:C5	45:F8:69:TYR:CE1	2.85	0.65
26:1H:2502:G:OP2	59:1H:3527:HOH:O	2.14	0.65
31:31:129:PHE:HA	31:31:142:TRP:NE1	2.11	0.65
37:78:50:ARG:HD3	55:Q8:7:HIS:NE2	2.11	0.65
41:B8:102:ILE:HB	41:B8:110:ILE:HD11	1.79	0.65
43:D8:3:ALA:HB3	43:D8:14:VAL:HG22	1.78	0.65
1:1G:757:U:O2'	1:1G:879:C:O2	2.15	0.65
5:42:102:ALA:HB1	5:42:106:PRO:HG2	1.79	0.65
26:14:287:C:H2'	26:14:288:C:C6	2.32	0.65
31:39:20:LEU:HG	31:39:199:TRP:CH2	2.32	0.65
32:49:124:SER:HB2	32:49:131:TYR:CE2	2.32	0.65
40:65:106:ARG:NH1	40:65:107:GLU:OE1	2.29	0.65
43:95:1:MET:HG2	43:95:42:GLY:HA3	1.77	0.65
46:C5:19:LYS:HG3	46:C5:20:TYR:HD1	1.61	0.65
1:13:1002:G:H2'	1:13:1003:G:H8	1.62	0.65
26:1H:1016:G:N7	59:1H:4209:HOH:O	2.29	0.65
35:58:38:HIS:O	42:C8:67:ALA:HB1	1.96	0.65
47:H8:157:LEU:HD21	47:H8:163:LEU:HD23	1.77	0.65
1:1G:259:G:H1	1:1G:267:C:H42	1.43	0.65
4:32:14:ARG:HB2	4:32:40:PRO:HD2	1.79	0.65
7:62:26:PHE:O	7:62:30:ILE:HG13	1.96	0.65
24:3L:21:A:N6	24:3L:47:U:O2	2.19	0.65
26:14:1776:G:OP2	59:14:3429:HOH:O	2.13	0.65
26:14:1778:U:H2'	26:14:1784:A:N6	2.11	0.65
34:69:73:GLU:HG3	34:69:136:VAL:HG23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:772:U:H2'	1:13:773:G:H8	1.62	0.65
1:13:1392:G:H2'	1:13:1393:U:H6	1.62	0.65
49:J8:64:ALA:HA	49:J8:67:ILE:HG13	1.77	0.65
1:1G:975:A:H5'	1:1G:975:A:C8	2.32	0.65
4:32:58:LEU:HD22	4:32:62:GLN:HG2	1.79	0.65
26:14:1264:G:OP1	53:J5:19:ARG:NH1	2.22	0.65
26:14:1757:U:N3	26:14:1762:A:H2	1.87	0.65
26:14:2262:U:H2'	26:14:2263:C:C6	2.31	0.65
31:39:79:GLY:HA2	31:39:86:GLY:HA2	1.78	0.65
55:M5:51:ALA:O	55:M5:52:LYS:HD3	1.96	0.65
1:13:179:A:H2'	1:13:180:U:C6	2.32	0.65
1:13:939:G:H2'	1:13:940:C:C6	2.32	0.65
26:1H:1914:C:H2'	26:1H:1915:U:O4'	1.95	0.65
33:51:92:ILE:HD11	33:51:160:LYS:NZ	2.12	0.65
38:88:138:ASP:OD1	38:88:138:ASP:N	2.26	0.65
1:1G:136:C:O2'	16:7A:65:GLN:OE1	2.15	0.65
1:1G:740:U:H2'	1:1G:741:G:C8	2.31	0.65
26:14:2153:G:N2	26:14:2154:G:O6	2.30	0.65
26:14:2557:G:H2'	26:14:2558:C:C6	2.32	0.65
49:F5:85:LEU:HA	49:F5:87:PRO:HD2	1.79	0.65
1:13:1086:U:H3	1:13:1099:G:H22	1.43	0.65
4:3E:18:LYS:HG3	4:3E:31:CYS:SG	2.37	0.65
26:1H:142:G:H1'	45:F8:37:THR:HG21	1.78	0.65
26:1H:1417:C:OP2	59:1H:3968:HOH:O	2.14	0.65
26:1H:2105:C:H2'	26:1H:2106:G:H8	1.61	0.65
26:1H:2712:U:O2'	26:1H:2713:A:H5'	1.97	0.65
30:21:18:ASP:HB3	41:B8:82:LEU:HD21	1.79	0.65
35:58:4:TYR:O	42:C8:64:ARG:NH1	2.28	0.65
4:32:59:ARG:O	4:32:63:LYS:N	2.21	0.65
5:42:61:TYR:HA	5:42:64:ARG:HB3	1.79	0.65
13:4A:82:MET:SD	13:4A:83:ASP:N	2.70	0.65
26:14:1430:C:H2'	26:14:1431:U:C6	2.32	0.65
26:14:2786:U:H5'	30:29:65:GLY:HA2	1.78	0.65
35:15:90:MET:HE1	35:15:97:ARG:HD2	1.79	0.65
47:D5:94:GLU:HB3	47:D5:96:VAL:HG23	1.78	0.65
49:F5:86:SER:N	49:F5:87:PRO:HD2	2.11	0.65
6:5E:50:TYR:OH	18:9I:74:ARG:O	2.11	0.65
15:6I:55:GLY:HA2	15:6I:58:MET:HE3	1.79	0.65
28:71:66:HIS:HD2	28:71:184:LYS:O	1.79	0.65
34:61:120:ILE:HG12	34:61:126:TYR:HE2	1.61	0.65
38:88:82:ARG:HD2	38:88:82:ARG:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:H8:130:PRO:HA	47:H8:133:ILE:HD11	1.78	0.65
26:14:528:A:OP2	35:15:114:ARG:NH1	2.30	0.65
26:14:1970:A:OP1	59:14:3469:HOH:O	2.15	0.65
26:14:2294:C:OP2	40:65:89:ARG:NH2	2.30	0.65
47:D5:124:ILE:HD11	47:D5:165:VAL:HG11	1.77	0.65
4:3E:98:GLU:O	4:3E:103:ASN:ND2	2.29	0.64
24:3K:18:G:N2	24:3K:55:PSU:HN3	1.95	0.64
26:1H:992:C:H2'	26:1H:993:G:H8	1.62	0.64
26:1H:2747:G:O6	26:1H:2755:C:H5"	1.96	0.64
32:41:37:VAL:HG22	32:41:159:VAL:HG12	1.79	0.64
35:58:34:LEU:HD21	35:58:120:LEU:HB2	1.78	0.64
1:1G:957:U:H1'	1:1G:960:U:C5	2.32	0.64
1:1G:979:C:H5	1:1G:980:C:C6	2.16	0.64
2:12:5:ILE:HG12	2:12:6:THR:HG22	1.79	0.64
13:4A:84:ILE:HG22	13:4A:86:CYS:HB3	1.80	0.64
26:14:955:C:OP1	38:45:85:LYS:NZ	2.30	0.64
26:14:1973:G:H2'	26:14:1974:C:C6	2.32	0.64
26:14:2232:U:P	49:F5:40:ARG:HH22	2.20	0.64
29:19:71:ASP:OD2	29:19:103:ARG:NH1	2.29	0.64
31:39:63:LYS:NZ	31:39:75:HIS:O	2.30	0.64
38:45:21:THR:HG22	38:45:23:GLY:HA3	1.79	0.64
45:B5:36:LYS:HG3	45:B5:56:THR:HG23	1.78	0.64
5:4E:63:ARG:HA	5:4E:66:MET:HE2	1.77	0.64
29:11:232:PRO:HB3	29:11:244:ARG:NH1	2.12	0.64
34:61:131:LYS:HB3	34:61:132:PRO:HA	1.79	0.64
37:78:36:LYS:O	59:78:303:HOH:O	2.14	0.64
43:D8:2:PHE:H	43:D8:42:GLY:HA3	1.62	0.64
46:G8:76:CYS:SG	46:G8:97:ARG:HG2	2.37	0.64
51:L8:8:LEU:HB2	51:L8:28:LEU:HD13	1.78	0.64
55:Q8:25:MET:HE3	55:Q8:46:ARG:HH11	1.61	0.64
1:1G:341:C:H2'	1:1G:342:C:H6	1.62	0.64
1:1G:1002:G:H2'	1:1G:1003:G:H8	1.62	0.64
1:1G:1126:U:N3	1:1G:1281:U:O4'	2.30	0.64
26:14:1138:G:H21	35:15:106:MET:HE1	1.61	0.64
26:14:1141:U:OP2	35:15:63:THR:OG1	2.13	0.64
46:C5:33:LYS:HE2	46:C5:34:LYS:HE3	1.78	0.64
1:13:1028:C:H42	1:13:1033:G:H1	1.43	0.64
7:6E:5:ARG:HG2	7:6E:7:ALA:H	1.63	0.64
9:8E:128:ARG:NH1	23:2K:34:U:OP2	2.29	0.64
16:7I:74:LEU:HA	16:7I:77:ALA:HB2	1.79	0.64
23:2K:62:C:H2'	23:2K:63:C:H6	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1021:A:OP2	35:58:65:LYS:NZ	2.23	0.64
26:1H:1253:A:N7	59:1H:3629:HOH:O	2.30	0.64
26:1H:1405:U:H2'	26:1H:1406:U:C6	2.32	0.64
26:1H:2257:U:O2'	26:1H:2258:C:H5'	1.97	0.64
26:1H:2533:A:H2'	26:1H:2534:A:O4'	1.98	0.64
37:78:60:MET:HA	55:Q8:13:ARG:NH1	2.13	0.64
50:K8:5:GLU:HB3	50:K8:8:LYS:HB3	1.79	0.64
50:K8:23:LYS:O	50:K8:27:GLU:HG3	1.96	0.64
3:22:36:ASP:HA	3:22:39:ILE:HD12	1.80	0.64
35:15:15:LEU:HD12	35:15:136:GLU:HB2	1.77	0.64
37:35:64:LYS:HB2	55:M5:30:ARG:NH2	2.10	0.64
52:I5:40:HIS:HA	52:I5:44:THR:HB	1.79	0.64
1:13:1005:A:H5'	1:13:1038:C:H1'	1.79	0.64
2:1E:174:VAL:HG13	2:1E:184:VAL:HG11	1.79	0.64
4:3E:149:ALA:O	4:3E:153:ARG:HG2	1.98	0.64
14:5I:21:TYR:OH	14:5I:23:ARG:NH2	2.30	0.64
26:1H:730:C:OP2	59:1H:3601:HOH:O	2.14	0.64
30:21:116:VAL:HG11	30:21:138:PRO:HB3	1.80	0.64
31:31:6:VAL:HG21	31:31:119:ARG:HB2	1.79	0.64
40:A8:49:VAL:HG11	40:A8:77:ALA:HB2	1.79	0.64
55:Q8:34:TRP:HZ3	55:Q8:39:LYS:CB	2.08	0.64
1:1G:363:A:OP1	12:3A:33:ARG:HG3	1.98	0.64
1:1G:559:A:H4'	1:1G:560:U:H5"	1.78	0.64
1:1G:1154:G:H2'	1:1G:1155:G:C8	2.33	0.64
4:32:26:CYS:HA	4:32:31:CYS:CB	2.25	0.64
26:14:1667:G:H2'	59:14:3910:HOH:O	1.96	0.64
37:35:15:ARG:HH22	37:35:17:LYS:HE3	1.61	0.64
41:75:24:PRO:HA	41:75:49:VAL:HG23	1.80	0.64
44:A5:110:LYS:HE3	44:A5:111:HIS:HB3	1.77	0.64
1:13:601:C:H2'	1:13:602:A:C8	2.33	0.64
1:13:807:A:H2'	1:13:808:C:C6	2.33	0.64
26:1H:1210:A:H5'	26:1H:1210:A:C8	2.32	0.64
1:1G:474:G:H2'	1:1G:475:G:C8	2.32	0.64
4:32:59:ARG:HH22	4:32:66:ARG:NH1	1.95	0.64
6:52:68:PRO:HG2	6:52:71:ARG:HG3	1.78	0.64
13:4A:3:ARG:HB2	52:I5:34:GLU:HG3	1.79	0.64
24:3L:8:4SU:H5"	24:3L:49:C:H5'	1.80	0.64
26:14:172:C:H2'	26:14:173:G:H8	1.63	0.64
31:39:59:TYR:HD2	31:39:78:ILE:HG12	1.63	0.64
32:49:97:ASP:O	32:49:101:ILE:HG23	1.98	0.64
38:45:22:LYS:N	38:45:23:GLY:HA3	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:399:G:OP2	59:1H:3982:HOH:O	2.14	0.64
26:1H:1314:C:H5"	59:1H:3888:HOH:O	1.97	0.64
26:1H:1491:G:H2'	26:1H:1492:G:H8	1.63	0.64
26:1H:2710:C:OP1	59:1H:3575:HOH:O	2.14	0.64
27:16:88:C:H2'	27:16:89:G:O4'	1.97	0.64
28:71:46:LYS:HE3	28:71:210:ARG:HB3	1.79	0.64
1:1G:223:U:H2'	1:1G:224:C:H6	1.62	0.64
1:1G:376:G:H5"	16:7A:5:ARG:HB2	1.79	0.64
2:12:166:ASP:OD2	2:12:169:LYS:HB2	1.97	0.64
26:14:1093:G:O2'	26:14:1099:G:N2	2.29	0.64
1:13:674:G:H2'	1:13:675:A:C8	2.33	0.64
26:1H:322:A:P	31:31:168:ARG:HH21	2.21	0.64
26:1H:782:A:N1	29:11:226:MET:HE2	2.13	0.64
26:1H:1047:G:O2'	26:1H:1111:A:N6	2.30	0.64
26:1H:1828:G:N7	59:1H:4364:HOH:O	2.30	0.64
26:1H:2241:A:O2'	26:1H:2242:G:H5'	1.98	0.64
36:68:93:PRO:HG3	36:68:114:ILE:HG12	1.78	0.64
1:1G:79:G:O6	1:1G:91:C:N4	2.31	0.64
1:1G:1200:C:O2'	1:1G:1201:A:OP2	2.16	0.64
26:14:882:G:H1	26:14:894:C:H42	1.46	0.64
26:14:1327:C:OP2	59:14:3571:HOH:O	2.15	0.64
26:14:2557:G:H2'	26:14:2558:C:H6	1.62	0.64
10:1I:6:ILE:HG22	10:1I:98:ILE:HG12	1.79	0.64
20:BI:49:ALA:O	20:BI:52:ALA:N	2.31	0.64
52:M8:40:HIS:CG	52:M8:45:GLY:HA3	2.32	0.64
55:Q8:6:THR:H	55:Q8:59:LYS:NZ	1.95	0.64
1:1G:365:U:H5"	1:1G:366:C:OP1	1.98	0.64
1:1G:973:G:OP1	10:1A:57:LYS:NZ	2.30	0.64
26:14:882:G:H2'	26:14:883:G:H8	1.63	0.64
26:14:1348:G:H2'	26:14:1349:A:H5"	1.80	0.64
43:95:85:LYS:HD2	43:95:86:GLY:N	2.05	0.64
46:C5:68:HIS:HB3	46:C5:71:LYS:HE2	1.78	0.64
1:13:114:U:H2'	1:13:115:G:C8	2.33	0.64
32:41:135:LEU:HD23	32:41:140:ILE:HD11	1.79	0.64
35:58:93:THR:HG22	35:58:94:HIS:ND1	2.12	0.64
46:G8:85:VAL:O	46:G8:86:ARG:HD3	1.98	0.64
48:I8:53:MET:HG3	48:I8:59:LEU:HD23	1.79	0.64
1:1G:1226:C:H2'	13:4A:103:THR:HB	1.79	0.64
2:12:102:LEU:H	2:12:102:LEU:HD12	1.62	0.64
26:14:580:C:H2'	26:14:581:C:H6	1.62	0.64
26:14:1171:G:O2'	26:14:1173:G:N3	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:84:A:OP2	46:G8:8:LYS:NZ	2.22	0.64
26:1H:784:A:C5	29:11:229:VAL:HG21	2.33	0.64
26:1H:2502:G:H5"	26:1H:2503:A:H5"	1.79	0.64
36:68:19:ILE:HG22	36:68:43:VAL:HA	1.79	0.64
12:3A:37:CYS:SG	12:3A:81:SER:HB3	2.38	0.64
26:14:574:C:OP1	59:14:3945:HOH:O	2.15	0.64
26:14:739:G:OP1	59:14:3652:HOH:O	2.15	0.64
26:14:2068:U:H3	26:14:2430:A:H2	1.44	0.64
26:14:2537:U:H2'	26:14:2538:C:C6	2.33	0.64
27:1J:15:A:H1'	27:1J:109:G:C4	2.33	0.64
31:39:164:ARG:O	31:39:167:ALA:HB3	1.98	0.64
32:49:19:LEU:HD11	32:49:172:LEU:HB2	1.80	0.64
40:65:5:THR:O	40:65:8:GLU:N	2.30	0.64
1:13:405:U:OP2	4:3E:3:ARG:NH2	2.30	0.63
1:13:1506:U:H2'	59:13:1805:HOH:O	1.98	0.63
2:1E:74:LYS:NZ	2:1E:206:ASP:OD1	2.31	0.63
4:3E:108:LEU:HD23	4:3E:110:PHE:HE1	1.63	0.63
12:3I:58:VAL:O	12:3I:65:GLU:HA	1.98	0.63
26:1H:76:C:O2'	50:K8:62:THR:HG21	1.98	0.63
26:1H:453:C:OP1	59:1H:3833:HOH:O	2.14	0.63
26:1H:587:C:OP2	37:78:21:ARG:NH2	2.31	0.63
26:1H:2028:U:O4	59:1H:4001:HOH:O	2.11	0.63
31:31:65:TRP:CZ3	31:31:72:ARG:HB2	2.33	0.63
46:G8:9:LYS:HA	46:G8:27:VAL:HG22	1.79	0.63
1:1G:523:A:H61	12:3A:92:ASP:HB2	1.63	0.63
16:7A:40:ASP:HB3	16:7A:48:TRP:HB2	1.79	0.63
26:14:635:C:O2'	26:14:639:U:OP1	2.06	0.63
26:14:2439:A:H5'	26:14:2439:A:C8	2.33	0.63
1:13:7:G:H5'	1:13:298:A:O4'	1.98	0.63
26:1H:518:G:H2'	26:1H:519:U:C6	2.32	0.63
39:98:56:LYS:NZ	39:98:90:ARG:O	2.32	0.63
47:H8:30:ASN:HA	47:H8:89:PHE:HE1	1.63	0.63
1:1G:999:U:O2	1:1G:1042:G:N2	2.31	0.63
2:12:220:ASP:OD1	2:12:220:ASP:N	2.29	0.63
5:42:10:MET:HE1	5:42:13:ILE:HG12	1.80	0.63
26:14:2581:G:O6	59:14:3720:HOH:O	2.13	0.63
31:39:102:PRO:HB2	31:39:105:VAL:HG23	1.79	0.63
34:69:90:GLY:O	34:69:121:LYS:HD2	1.98	0.63
37:35:113:LYS:HB2	37:35:129:ALA:HB3	1.80	0.63
52:I5:37:SER:HB3	52:I5:39:CYS:HB2	1.79	0.63
1:13:1346:A:N1	1:13:1374:A:H5"	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2E:13:GLY:HA3	14:5I:57:ARG:CZ	2.28	0.63
18:9I:36:ASN:HD22	18:9I:39:VAL:HG21	1.64	0.63
26:1H:152:G:H1	26:1H:174:C:H42	1.45	0.63
26:1H:2319:G:N1	26:1H:2334:G:OP2	2.31	0.63
33:51:149:ARG:NH2	33:51:167:GLU:OE2	2.29	0.63
1:1G:243:A:H4'	1:1G:244:U:O5'	1.96	0.63
1:1G:1134:G:C2	1:1G:1135:U:H1'	2.33	0.63
1:1G:1347:G:C8	9:82:107:ARG:HB3	2.33	0.63
15:6A:39:LEU:HD12	15:6A:56:LEU:HB2	1.79	0.63
16:7A:74:LEU:HD12	16:7A:79:VAL:HG21	1.81	0.63
19:AA:20:LEU:O	19:AA:23:ASN:ND2	2.27	0.63
26:14:322:A:H3'	31:39:169:ASN:HD21	1.63	0.63
43:95:43:GLU:HB2	43:95:44:LYS:HZ2	1.63	0.63
45:B5:26:TYR:CD2	45:B5:89:ILE:HD12	2.33	0.63
1:13:486:U:H2'	1:13:487:A:C8	2.32	0.63
18:9I:52:PRO:O	18:9I:56:THR:HG23	1.99	0.63
26:1H:57:C:H2'	26:1H:58:G:O4'	1.99	0.63
26:1H:1474:C:H2'	26:1H:1475:G:C8	2.33	0.63
28:71:54:SER:HA	28:71:57:ASN:HB2	1.80	0.63
29:11:145:VAL:HG12	29:11:146:GLU:O	1.99	0.63
37:78:115:LEU:HA	37:78:134:ALA:HB2	1.80	0.63
41:B8:2:ASN:O	41:B8:3:ARG:HG2	1.99	0.63
1:1G:501:C:H2'	1:1G:502:G:C8	2.33	0.63
1:1G:979:C:H3'	1:1G:980:C:C5'	2.28	0.63
1:1G:1028(A):C:H5	1:1G:1029:G:C5	2.15	0.63
4:32:8:VAL:HA	4:32:11:LEU:HD12	1.79	0.63
26:14:162:U:H4'	26:14:171:G:C4	2.34	0.63
26:14:270(H):C:H2'	26:14:270(I):G:H8	1.63	0.63
26:14:973:A:OP2	59:14:3962:HOH:O	2.16	0.63
26:14:1499:C:H2'	26:14:1500:G:H8	1.63	0.63
31:39:53:THR:HG22	31:39:56:GLU:CD	2.23	0.63
47:D5:77:ASP:OD1	47:D5:80:ARG:N	2.23	0.63
1:13:917:G:H2'	1:13:918:A:H8	1.63	0.63
1:13:1022:G:H2'	1:13:1023:G:H8	1.64	0.63
19:AI:67:VAL:HG11	52:M8:60:GLN:HE21	1.62	0.63
22:1K:4:G:N2	22:1K:70:C:O2	2.29	0.63
26:1H:33:U:H4'	26:1H:34:C:OP1	1.97	0.63
26:1H:259:G:H21	26:1H:621:A:H8	1.47	0.63
26:1H:1188:U:H4'	43:D8:79:VAL:HG22	1.79	0.63
28:71:193:ILE:O	28:71:197:GLU:HG2	1.99	0.63
1:1G:25:C:H2'	1:1G:26:A:H8	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1239:A:H4'	1:1G:1240:U:H5'	1.80	0.63
2:12:132:LYS:HA	2:12:135:GLN:HB2	1.80	0.63
3:22:152:ILE:HB	3:22:199:LYS:HB2	1.80	0.63
26:14:83:G:N2	26:14:103:A:OP2	2.30	0.63
26:14:1664:A:OP1	59:14:3523:HOH:O	2.15	0.63
27:1J:62:C:H2'	27:1J:63:G:C8	2.32	0.63
46:C5:67:LEU:HG	46:C5:71:LYS:HE3	1.80	0.63
1:13:60:A:H4'	1:13:61:G:H5'	1.80	0.63
1:13:707:C:OP1	11:2I:85:ARG:NH1	2.32	0.63
1:13:881:G:OP2	12:3I:12:ARG:NH2	2.32	0.63
1:13:1366:C:H2'	1:13:1367:C:H6	1.64	0.63
3:2E:73:PRO:O	3:2E:76:VAL:HG13	1.99	0.63
10:1I:40:LEU:HB2	10:1I:69:ASN:HB2	1.79	0.63
26:1H:16:G:H2'	26:1H:17:G:C8	2.30	0.63
26:1H:1298:C:OP2	59:1H:3545:HOH:O	2.16	0.63
26:1H:2074:U:P	59:1H:3593:HOH:O	2.56	0.63
26:1H:2638:G:OP1	30:21:82:ARG:NH2	2.32	0.63
1:1G:978:A:O2'	1:1G:1322:C:N3	2.27	0.63
4:32:13:ARG:C	4:32:15:GLU:H	2.06	0.63
26:14:548:A:C5	26:14:549:G:H1'	2.34	0.63
26:14:1647:G:H2'	59:14:3555:HOH:O	1.98	0.63
27:1J:3:C:H2'	27:1J:4:C:C6	2.33	0.63
1:13:108:G:H5"	1:13:109:A:H5"	1.81	0.63
2:1E:88:ALA:HB2	2:1E:219:VAL:HG13	1.80	0.63
26:1H:2815:C:H2'	26:1H:2816:C:H6	1.62	0.63
27:16:95:U:H2'	27:16:96:G:C8	2.33	0.63
35:58:133:GLN:HG2	35:58:134:ARG:H	1.62	0.63
56:2L:24:C:H2'	56:2L:25:U:H6	1.64	0.63
26:14:1340:U:H4'	26:14:1394:U:O2'	1.99	0.63
26:1H:176:G:O2'	26:1H:177:G:H5'	1.98	0.63
26:1H:1474:C:H2'	26:1H:1475:G:H8	1.64	0.63
31:31:8:GLN:HA	31:31:21:ALA:HA	1.81	0.63
45:F8:2:LYS:HG2	50:K8:26:ARG:HE	1.64	0.63
9:82:111:ARG:HB3	9:82:113:LYS:HE2	1.81	0.63
26:14:210:C:OP2	54:L5:29:LYS:NZ	2.32	0.63
26:14:603:A:H8	26:14:604:G:H1'	1.64	0.63
26:14:1499:C:H2'	26:14:1500:G:C8	2.34	0.63
54:L5:12:ARG:NH2	54:L5:44:PRO:HB3	2.13	0.63
20:BI:10:LEU:HG	20:BI:12:ALA:H	1.63	0.63
23:2K:47:7MG:H81	23:2K:48:U:H5	1.62	0.63
26:1H:844:C:H2'	26:1H:845:G:O4'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1600:C:H2'	26:1H:1601:G:H8	1.64	0.63
26:1H:2213:U:O2'	26:1H:2215:G:OP1	2.14	0.63
26:1H:2685:G:O6	59:1H:4033:HOH:O	2.16	0.63
44:E8:38:TYR:OH	53:N8:47:PRO:HG3	1.99	0.63
47:H8:8:TYR:HB2	47:H8:38:TYR:CE1	2.33	0.63
52:M8:60:GLN:HB2	52:M8:61:ARG:CZ	2.29	0.63
55:Q8:30:ARG:HB2	55:Q8:30:ARG:CZ	2.28	0.63
1:1G:825:G:H1	1:1G:875:C:H42	1.45	0.63
26:14:854:G:H2'	26:14:855:G:C8	2.34	0.63
26:14:1336:A:H2'	26:14:1337:G:C8	2.34	0.63
26:14:2315:G:H2'	26:14:2316:C:C6	2.34	0.63
27:1J:104:A:H2'	27:1J:105:G:O4'	1.99	0.63
34:69:4:ILE:HG23	34:69:18:VAL:HG22	1.81	0.63
38:45:34:LEU:HD11	38:45:129:THR:HB	1.81	0.63
51:H5:4:LEU:N	51:H5:37:LEU:O	2.31	0.63
1:13:1238:A:N3	1:13:1241:G:O2'	2.26	0.62
26:1H:192:C:P	59:1H:3624:HOH:O	2.57	0.62
26:1H:1298:C:H5"	26:1H:1299:G:OP2	1.98	0.62
26:1H:1416:G:HO2'	26:1H:1417:C:H6	1.47	0.62
26:1H:1678:G:N2	26:1H:1989:G:H22	1.97	0.62
55:Q8:34:TRP:HE1	55:Q8:36:LYS:NZ	1.97	0.62
1:1G:877:C:OP1	8:72:88:LYS:NZ	2.27	0.62
4:32:173:TRP:CZ3	4:32:193:ASP:HB3	2.33	0.62
33:59:71:LEU:HA	33:59:74:ASN:HB2	1.80	0.62
1:13:157:G:H2'	1:13:158:G:H8	1.63	0.62
1:13:625:G:H4'	16:7I:16:HIS:CD2	2.34	0.62
1:13:1483:A:O2'	26:1H:1947:C:O2'	2.17	0.62
11:2I:99:GLN:HG2	11:2I:105:VAL:HG11	1.80	0.62
15:6I:82:ILE:O	15:6I:86:GLY:N	2.32	0.62
20:BI:53:LEU:O	20:BI:57:ARG:NH1	2.32	0.62
26:1H:270(E):G:N2	26:1H:270(U):C:N3	2.42	0.62
26:1H:470:A:OP1	59:1H:3698:HOH:O	2.16	0.62
29:11:206:LEU:HD23	29:11:211:ARG:HG2	1.81	0.62
1:1G:373:A:H2'	1:1G:374:A:H8	1.62	0.62
1:1G:619:U:C6	4:32:135:LEU:HD21	2.34	0.62
1:1G:1057:G:H1	1:1G:1203:C:H42	1.45	0.62
1:1G:1157:A:H8	1:1G:1158:C:C5	2.17	0.62
7:62:113:GLU:O	7:62:119:ARG:HD3	1.99	0.62
24:3L:33:U:N3	24:3L:36:A:OP2	2.32	0.62
26:14:1970:A:OP2	59:14:3472:HOH:O	2.16	0.62
26:14:2104:G:H2'	26:14:2105:C:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:35:37:GLY:O	37:35:39:LYS:N	2.32	0.62
41:75:23:ARG:HG3	41:75:120:ARG:NH1	2.14	0.62
49:F5:87:PRO:HA	49:F5:90:ILE:HB	1.81	0.62
1:13:1148:U:H2'	1:13:1149:C:O4'	1.98	0.62
18:9I:66:LEU:O	18:9I:70:ILE:HG13	1.99	0.62
26:1H:70:G:H21	26:1H:71:A:N6	1.97	0.62
26:1H:910:A:C5	38:88:13:GLN:HG3	2.33	0.62
26:1H:2033:A:OP1	59:1H:4000:HOH:O	2.16	0.62
26:1H:2277:G:OP1	38:88:85:LYS:HB3	1.99	0.62
33:51:4:ILE:HB	33:51:6:ARG:HG3	1.81	0.62
1:1G:688:G:H2'	1:1G:689:C:H6	1.63	0.62
1:1G:1238:A:N3	1:1G:1241:G:O2'	2.30	0.62
1:1G:1490:C:H2'	1:1G:1491:G:O4'	1.98	0.62
24:3L:20:U:H1'	24:3L:21:A:O5'	1.99	0.62
26:14:270(H):C:H2'	26:14:270(I):G:C8	2.34	0.62
42:85:92:ARG:NH2	43:95:10:LYS:HA	2.14	0.62
1:13:111:G:H5"	16:7I:27:LYS:HG2	1.81	0.62
9:8E:48:GLU:HB2	9:8E:78:LYS:HE3	1.81	0.62
26:1H:674:G:H1'	31:31:74:ARG:NE	2.13	0.62
26:1H:2364:C:H4'	48:I8:56:ASP:OD2	1.99	0.62
28:71:20:TYR:HE2	28:71:222:VAL:HG13	1.64	0.62
30:21:104:VAL:HG22	30:21:198:VAL:HG13	1.81	0.62
33:51:125:VAL:HG12	33:51:127:GLU:O	1.99	0.62
1:1G:448:A:P	1:1G:485:G:H22	2.21	0.62
1:1G:897:C:H2'	1:1G:898:G:H8	1.65	0.62
1:1G:1055:A:N7	1:1G:1200:C:N4	2.47	0.62
3:22:183:ASP:HB3	3:22:202:ILE:HG13	1.80	0.62
8:72:99:GLU:OE2	8:72:100:ILE:N	2.32	0.62
13:4A:34:LEU:O	13:4A:38:GLY:N	2.31	0.62
26:14:39:C:H2'	26:14:40:C:C6	2.34	0.62
26:14:768:G:O2'	26:14:1379:A:N6	2.32	0.62
31:39:53:THR:N	31:39:56:GLU:OE1	2.25	0.62
36:25:89:ASN:OD1	36:25:89:ASN:N	2.32	0.62
1:13:21:G:H2'	1:13:22:G:C8	2.34	0.62
1:13:151:A:N6	1:13:171:A:N7	2.47	0.62
1:13:323:U:H2'	1:13:324:G:O4'	2.00	0.62
1:13:665:A:N3	1:13:732:C:H2'	2.15	0.62
7:6E:45:ASP:O	7:6E:49:ILE:HG12	1.98	0.62
12:3I:47:LYS:HA	12:3I:49:ASN:H	1.63	0.62
26:1H:185:U:H4'	26:1H:218:A:H4'	1.81	0.62
26:1H:1327:C:OP2	59:1H:3539:HOH:O	2.16	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2062:A:H62	26:1H:2503:A:H62	1.45	0.62
26:1H:2243:U:H2'	26:1H:2244:U:C6	2.35	0.62
26:1H:2306:C:H3'	26:1H:2307:G:C5'	2.30	0.62
24:3L:23:A:H2'	24:3L:24:G:C8	2.35	0.62
26:14:1011:G:H1	26:14:1150:C:H42	1.47	0.62
26:14:1024:G:H3'	26:14:1025:G:H5"	1.80	0.62
37:35:62:LEU:HD12	37:35:63:PRO:HD2	1.82	0.62
1:13:255:G:H4'	17:8I:17:LYS:HD2	1.81	0.62
26:1H:1417:C:N3	26:1H:1581:G:N2	2.35	0.62
26:1H:1453:A:O2'	26:1H:1454:U:H2'	2.00	0.62
34:61:79:ILE:HD11	34:61:100:ALA:HB1	1.82	0.62
55:Q8:27:THR:O	55:Q8:29:LYS:HA	1.99	0.62
55:Q8:35:GLN:C	55:Q8:37:SER:H	2.08	0.62
1:1G:475:G:OP1	16:7A:81:ARG:NH1	2.30	0.62
1:1G:1289:A:OP1	21:1B:10:ARG:NE	2.32	0.62
26:14:38:A:H2'	26:14:39:C:C6	2.35	0.62
26:14:2746:U:OP1	33:59:85:LYS:NZ	2.26	0.62
30:29:68:ALA:C	30:29:70:ALA:H	2.06	0.62
33:59:117:PRO:HB3	33:59:121:ILE:HB	1.82	0.62
39:55:78:LYS:O	39:55:83:ILE:HG13	1.99	0.62
1:13:323:U:H5'	20:BI:23:ARG:HB2	1.81	0.62
1:13:1298:C:OP2	7:6E:114:ARG:NH2	2.27	0.62
8:7E:41:ARG:NH2	8:7E:123:GLU:OE1	2.33	0.62
26:1H:1010:A:OP2	59:1H:4112:HOH:O	2.16	0.62
26:1H:1169:G:H1	26:1H:1180:C:H42	1.48	0.62
26:1H:1316:U:H2'	26:1H:1317:A:H8	1.64	0.62
26:1H:1729:A:C6	26:1H:1731:G:C2	2.87	0.62
26:1H:2562:U:H1'	36:68:23:ARG:HH11	1.63	0.62
31:31:32:LEU:HB3	31:31:112:MET:HE1	1.80	0.62
38:88:17:LEU:HD21	38:88:96:VAL:HG12	1.81	0.62
38:88:20:ALA:HB3	47:H8:79:ARG:CZ	2.30	0.62
55:Q8:23:VAL:HG13	55:Q8:46:ARG:HG3	1.81	0.62
1:1G:1246:C:O2	1:1G:1291:G:N2	2.26	0.62
26:14:566:U:H5"	37:35:29:LYS:HE3	1.82	0.62
26:14:601:C:O2	26:14:605:C:H4'	1.99	0.62
32:49:6:ALA:O	32:49:10:LYS:N	2.21	0.62
44:A5:67:ASP:OD1	44:A5:67:ASP:N	2.33	0.62
48:E5:38:VAL:HG12	48:E5:40:GLN:HG2	1.81	0.62
11:2I:22:HIS:HB3	11:2I:29:ILE:HG23	1.81	0.62
12:3I:66:VAL:HG22	12:3I:67:THR:H	1.65	0.62
13:4I:65:LYS:NZ	13:4I:73:GLU:OE2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:996:A:OP2	42:C8:92:ARG:NH2	2.25	0.62
26:1H:2591:C:H2'	26:1H:2592:G:H8	1.64	0.62
45:F8:5:TYR:CZ	50:K8:30:ARG:HB2	2.35	0.62
45:F8:55:ASN:HB2	45:F8:80:ILE:HG13	1.82	0.62
1:1G:539:A:H2'	1:1G:540:G:C8	2.34	0.62
1:1G:540:G:H2'	1:1G:541:G:O4'	2.00	0.62
1:1G:843:U:H3'	1:1G:848:C:O4'	2.00	0.62
16:7A:34:GLU:OE1	16:7A:55:ARG:NH1	2.33	0.62
26:14:270(K):C:O2	26:14:270(N):G:N2	2.26	0.62
26:14:1005:C:O2'	35:15:28:THR:HG21	1.99	0.62
26:14:1434:A:H61	26:14:1558:A:H62	1.46	0.62
27:1J:2:C:H2'	27:1J:3:C:C6	2.34	0.62
27:1J:103:U:O2'	47:D5:29:TYR:OH	2.15	0.62
30:29:116:VAL:HG23	30:29:120:TRP:HB2	1.80	0.62
31:39:24:LEU:HD13	31:39:25:PRO:HD2	1.81	0.62
1:13:21:G:H2'	1:13:22:G:H8	1.65	0.62
8:7E:7:ALA:HB2	8:7E:85:ARG:HH11	1.64	0.62
17:8I:55:ASP:HB3	17:8I:57:VAL:HG13	1.81	0.62
19:AI:51:VAL:HG12	19:AI:52:TYR:H	1.64	0.62
26:1H:520:G:H2'	26:1H:521:G:C8	2.35	0.62
26:1H:1113:U:H2'	26:1H:1114:G:C8	2.35	0.62
26:1H:1858:G:H2'	26:1H:1883:G:N2	2.15	0.62
26:1H:2127:G:H22	26:1H:2162:G:H1'	1.65	0.62
26:1H:2404:C:OP2	59:1H:4167:HOH:O	2.16	0.62
29:11:223:GLY:HA3	29:11:231:HIS:CE1	2.35	0.62
30:21:119:ARG:HD2	30:21:120:TRP:CE2	2.35	0.62
31:31:12:LEU:O	31:31:127:GLU:N	2.32	0.62
44:E8:57:ASN:HA	44:E8:61:ASN:HD22	1.65	0.62
1:1G:872:A:O2'	1:1G:873:A:H5"	2.00	0.62
1:1G:976:G:H5'	1:1G:1358:U:O2'	2.00	0.62
4:32:31:CYS:C	4:32:33:MET:N	2.56	0.62
17:8A:57:VAL:HG12	17:8A:76:LEU:HA	1.81	0.62
26:14:849:A:H2	51:H5:24:LYS:HB3	1.65	0.62
38:45:110:THR:HG23	38:45:113:GLN:HB2	1.82	0.62
24:3K:46:7MG:H4'	24:3K:47:U:OP1	1.99	0.62
26:1H:582:G:H1	26:1H:1258:C:H42	1.47	0.62
26:1H:1252:G:O4'	42:C8:33:ARG:HD3	2.00	0.62
26:1H:1794:U:H2'	26:1H:1795:C:C6	2.34	0.62
26:1H:2306:C:H3'	26:1H:2307:G:H5'	1.82	0.62
26:1H:2400:G:H2'	26:1H:2401:U:C6	2.33	0.62
34:61:110:ASP:HB2	34:61:112:LYS:HG2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:B8:16:ARG:HH21	41:B8:19:LEU:HD21	1.64	0.62
41:B8:26:ASP:HB2	41:B8:91:ARG:HA	1.82	0.62
1:1G:17:U:H2'	1:1G:18:C:C6	2.35	0.62
1:1G:1342:C:H2'	1:1G:1343:G:H8	1.65	0.62
3:22:45:LYS:HG3	3:22:46:GLU:HG2	1.82	0.62
13:4A:66:LEU:HA	13:4A:70:LEU:HB2	1.81	0.62
15:6A:76:GLU:HA	15:6A:79:ARG:HD2	1.80	0.62
26:14:29:U:H2'	26:14:30:G:C8	2.34	0.62
26:14:2103:C:H2'	26:14:2104:G:C8	2.34	0.62
26:14:2736:G:H1	26:14:2768:C:H42	1.47	0.62
29:19:253:GLN:HB3	29:19:255:LYS:HZ3	1.65	0.62
52:I5:34:GLU:HG2	52:I5:35:VAL:H	1.65	0.62
11:2I:48:ILE:HD11	11:2I:64:ALA:HA	1.81	0.61
24:3K:24:G:H2'	24:3K:25:C:C6	2.35	0.61
26:1H:557:U:H2'	26:1H:558:G:C8	2.34	0.61
26:1H:1329:U:H5"	26:1H:1330:C:H5	1.64	0.61
46:G8:20:TYR:CE1	46:G8:43:ASN:HA	2.35	0.61
1:1G:408:A:H2'	1:1G:409:G:O4'	1.99	0.61
1:1G:1324:A:H4'	1:1G:1362:C:H4'	1.82	0.61
55:M5:59:LYS:C	55:M5:60:LEU:HG	2.23	0.61
1:13:142:G:H2'	1:13:143:A:C8	2.34	0.61
1:13:736:C:H2'	1:13:737:A:H8	1.64	0.61
1:13:1124:G:HO2'	1:13:1145:C:N4	1.98	0.61
26:1H:205:G:O6	49:J8:39:LYS:NZ	2.33	0.61
26:1H:804:A:H5"	26:1H:805:G:OP1	1.99	0.61
26:1H:1255:U:O2	59:1H:4188:HOH:O	2.12	0.61
26:1H:1990:C:OP2	59:1H:4024:HOH:O	2.15	0.61
26:1H:2593:U:H2'	26:1H:2594:C:H6	1.65	0.61
30:21:70:ALA:O	30:21:73:GLU:N	2.33	0.61
35:58:45:ASN:OD1	35:58:45:ASN:N	2.33	0.61
38:88:81:VAL:O	38:88:82:ARG:HB2	1.98	0.61
4:32:24:GLU:N	4:32:24:GLU:OE2	2.32	0.61
4:32:108:LEU:HD13	4:32:174:LEU:HD22	1.82	0.61
5:42:121:LYS:NZ	5:42:122:GLU:O	2.33	0.61
9:82:17:VAL:HG13	9:82:63:ILE:HD11	1.81	0.61
14:5A:29:ARG:HB3	14:5A:31:ARG:H	1.65	0.61
26:14:1449(A):G:H2'	26:14:1450:C:H6	1.64	0.61
26:14:1568:G:P	29:19:63:ARG:HH12	2.22	0.61
44:A5:14:PRO:HG2	44:A5:78:GLU:HG3	1.82	0.61
1:13:667:G:H4'	15:6I:51:HIS:CE1	2.35	0.61
5:4E:147:ASP:HA	5:4E:150:ARG:HH12	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:6E:111:ARG:HD2	7:6E:123:GLU:HB2	1.80	0.61
12:3I:90:VAL:O	12:3I:91:LYS:HB3	1.98	0.61
26:1H:529:A:H8	26:1H:530:G:C6	2.18	0.61
26:1H:869:G:H1	26:1H:908:C:H42	1.46	0.61
26:1H:1309:G:OP1	59:1H:3778:HOH:O	2.16	0.61
26:1H:1346:G:H2'	26:1H:1347:G:H8	1.64	0.61
40:A8:38:GLN:HB2	40:A8:47:THR:HG21	1.82	0.61
1:1G:60:A:N6	1:1G:110:C:N3	2.49	0.61
1:1G:1352:C:H2'	1:1G:1353:G:C8	2.35	0.61
2:12:91:PRO:HG3	2:12:154:LEU:HB2	1.82	0.61
3:22:74:GLY:HA2	3:22:77:ILE:HD12	1.82	0.61
12:3A:84:LEU:HD23	12:3A:105:TYR:HE2	1.65	0.61
24:3L:27:G:H2'	24:3L:28:G:C8	2.34	0.61
26:14:851:U:H5'	51:H5:49:LYS:HD2	1.82	0.61
26:14:1542:G:H3'	26:14:1543:A:H5"	1.81	0.61
27:1J:90:C:P	38:45:16:ARG:HH21	2.23	0.61
30:29:8:LYS:HB3	30:29:193:GLY:N	2.14	0.61
30:29:8:LYS:HG2	30:29:192:ASN:HA	1.83	0.61
43:95:85:LYS:CD	43:95:86:GLY:H	2.07	0.61
1:13:200:G:N2	1:13:218:C:O2	2.33	0.61
1:13:547:A:OP1	4:3E:73:ARG:NH2	2.32	0.61
9:8E:128:ARG:HH21	23:2K:36:A:P	2.23	0.61
13:4I:105:THR:OG1	13:4I:106:ASN:N	2.31	0.61
46:G8:82:PRO:HG3	46:G8:97:ARG:HG3	1.82	0.61
1:1G:371:G:H1	1:1G:390:C:H42	1.48	0.61
1:1G:503:C:OP2	12:3A:116:SER:HB3	2.00	0.61
1:1G:1348:U:H4'	9:82:120:ARG:HD2	1.82	0.61
26:14:675:A:OP2	59:14:3874:HOH:O	2.16	0.61
31:39:7:TYR:HD1	31:39:18:ARG:H	1.49	0.61
32:49:52:ILE:HD11	32:49:153:ARG:HH12	1.66	0.61
37:35:101:VAL:HA	37:35:105:LEU:O	2.00	0.61
46:C5:63:LYS:NZ	46:C5:63:LYS:HA	2.15	0.61
1:13:444:C:H2'	1:13:445:G:C8	2.34	0.61
1:13:563:A:N6	59:13:1833:HOH:O	2.33	0.61
12:3I:82:VAL:HG12	12:3I:106:ASP:OD2	2.01	0.61
23:2K:63:C:H2'	23:2K:64:G:H8	1.65	0.61
26:1H:51:G:O2'	26:1H:119:A:N1	2.31	0.61
26:1H:69:C:H2'	26:1H:70:G:C8	2.35	0.61
26:1H:331:A:N1	59:1H:3769:HOH:O	2.31	0.61
26:1H:1530:G:O6	26:1H:1542:G:N2	2.33	0.61
26:1H:2292:C:OP1	40:A8:17:ARG:NH2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2773:C:H5"	30:21:164:ARG:HG2	1.82	0.61
37:78:50:ARG:HH21	37:78:50:ARG:HG3	1.65	0.61
50:K8:32:LEU:HD11	50:K8:54:LYS:HG3	1.81	0.61
1:1G:922:G:H4'	5:42:20:GLN:HA	1.81	0.61
1:1G:1255:G:H22	1:1G:1276:G:H22	1.47	0.61
2:12:30:ARG:NH2	2:12:195:ASP:OD2	2.34	0.61
26:14:1688:U:H2'	26:14:1698:A:N6	2.15	0.61
26:14:2121:G:H1	26:14:2177:C:H42	1.48	0.61
26:14:2130:U:H2'	26:14:2158:A:C6	2.35	0.61
26:14:2786:U:H4'	30:29:64:LYS:C	2.25	0.61
27:1J:56:G:H4'	27:1J:57:A:C8	2.36	0.61
46:C5:87:LYS:CG	46:C5:88:LYS:H	2.14	0.61
1:13:17:U:H2'	1:13:18:C:C6	2.35	0.61
1:13:426:G:H2'	1:13:427:U:C6	2.36	0.61
1:13:600:C:H2'	1:13:601:C:C6	2.35	0.61
2:1E:21:ARG:HD3	2:1E:38:GLY:C	2.25	0.61
4:3E:115:ARG:NH2	59:3E:402:HOH:O	2.33	0.61
23:2K:21:U:O2	23:2K:21:U:H2'	2.00	0.61
26:1H:449:A:N7	59:1H:3832:HOH:O	2.31	0.61
26:1H:731:C:OP1	59:1H:3753:HOH:O	2.16	0.61
26:1H:1049:C:H2'	26:1H:1050:A:H5'	1.83	0.61
26:1H:1520:U:H2'	26:1H:1521:G:O4'	2.01	0.61
1:1G:1053:G:O6	1:1G:1199:U:H2'	1.99	0.61
4:32:173:TRP:CD1	4:32:174:LEU:HG	2.35	0.61
7:62:26:PHE:CD2	7:62:30:ILE:HD11	2.35	0.61
26:14:943:U:OP2	37:35:36:LYS:HG3	2.00	0.61
26:14:1754:C:H2'	26:14:1755:A:C8	2.35	0.61
30:29:29:GLY:H	30:29:51:PHE:HE1	1.47	0.61
32:49:57:ALA:HA	32:49:90:LEU:HD21	1.83	0.61
32:49:125:PHE:CD1	32:49:166:ASP:HB2	2.36	0.61
43:95:38:LEU:HB3	43:95:52:VAL:HB	1.83	0.61
48:E5:64:ASP:OD1	48:E5:64:ASP:N	2.33	0.61
26:1H:270(P):C:H2'	26:1H:270(Q):C:C6	2.35	0.61
26:1H:363(A):A:H2'	26:1H:363(B):G:C8	2.36	0.61
37:78:98:GLU:O	37:78:101:VAL:HG13	2.01	0.61
41:B8:80:SER:HB3	41:B8:83:ILE:HG13	1.81	0.61
47:H8:19:ARG:NH1	47:H8:84:GLU:O	2.33	0.61
9:82:121:ARG:NH1	9:82:122:ALA:O	2.34	0.61
16:7A:14:ASN:OD1	16:7A:16:HIS:NE2	2.34	0.61
26:14:360:G:H2'	26:14:361:G:H8	1.66	0.61
26:14:2674:G:H2'	26:14:2675:A:C8	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:19:69:ARG:NH2	29:19:128:GLY:O	2.33	0.61
35:15:10:GLU:HG3	35:15:11:PRO:HD2	1.81	0.61
1:13:247:G:OP2	17:8I:100:LYS:HB2	2.00	0.61
2:1E:219:VAL:HA	2:1E:222:ILE:HD12	1.82	0.61
26:1H:491:G:O6	44:E8:49:LYS:NZ	2.31	0.61
26:1H:673:C:H5"	31:31:81:PRO:HD2	1.83	0.61
26:1H:2186:G:H2'	26:1H:2187:G:H8	1.66	0.61
27:16:112:G:H2'	27:16:113:C:C6	2.36	0.61
29:11:267:SER:HA	29:11:270:ILE:HD12	1.81	0.61
34:61:8:PRO:HA	34:61:14:ASP:HA	1.82	0.61
26:14:2105:C:H2'	26:14:2106:G:O4'	2.01	0.61
26:14:2638:G:O2'	26:14:2639:A:O5'	2.17	0.61
30:29:18:ASP:HB3	41:75:82:LEU:HD11	1.83	0.61
52:I5:16:CYS:HA	52:I5:33:VAL:HG13	1.82	0.61
29:11:147:LEU:HD13	29:11:155:LEU:HD21	1.82	0.61
37:78:100:LEU:HD12	37:78:105:LEU:HD13	1.83	0.61
43:D8:17:GLY:N	43:D8:96:ILE:O	2.26	0.61
1:1G:559:A:H4'	1:1G:560:U:C5'	2.31	0.61
4:32:18:LYS:HB3	4:32:33:MET:HE2	1.81	0.61
14:5A:45:ARG:O	14:5A:49:HIS:ND1	2.34	0.61
19:AA:41:VAL:HG22	19:AA:42:PRO:HD2	1.82	0.61
26:14:270(I):G:H2'	26:14:270(J):G:H8	1.66	0.61
26:14:877:U:O4	26:14:899:A:N6	2.34	0.61
26:14:981:A:H8	26:14:982:C:C5	2.18	0.61
26:14:1688:U:O2	26:14:1700:A:H5'	2.01	0.61
30:29:47:VAL:HG21	30:29:86:PRO:HD2	1.83	0.61
35:15:66:LYS:O	35:15:87:LEU:HD12	2.01	0.61
47:D5:58:VAL:HG12	47:D5:60:GLU:HB3	1.82	0.61
50:G5:52:ASP:N	50:G5:52:ASP:OD1	2.32	0.61
8:7E:10:LEU:HB3	8:7E:83:ILE:HD11	1.83	0.61
26:1H:248:G:H5'	26:1H:250:G:N7	2.16	0.61
1:1G:735:C:H2'	1:1G:736:C:H6	1.66	0.61
3:22:139:GLN:NE2	3:22:142:MET:SD	2.73	0.61
26:14:93:C:H5'	26:14:94:G:OP2	2.01	0.61
26:14:141:A:C8	26:14:1408:C:H1'	2.35	0.61
26:14:2114:A:N6	26:14:2119:A:N7	2.49	0.61
26:14:2298:A:H1'	26:14:2321:G:N2	2.15	0.61
26:14:2393:A:H4'	37:35:62:LEU:N	2.13	0.61
1:13:651:C:H2'	1:13:652:U:C6	2.36	0.60
1:13:1505:G:P	59:13:1804:HOH:O	2.57	0.60
19:AI:6:LYS:O	19:AI:7:LYS:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:676:A:H8	26:1H:2069:G:H21	1.48	0.60
26:1H:2131:G:C5'	26:1H:2133:G:H4'	2.31	0.60
26:1H:2685:G:C5	59:1H:4036:HOH:O	2.53	0.60
30:21:2:LYS:HD2	30:21:95:ILE:HG13	1.83	0.60
40:A8:14:VAL:HG21	40:A8:89:ARG:HE	1.64	0.60
4:32:24:GLU:HG2	4:32:25:ARG:H	1.65	0.60
1:13:1346:A:H5"	9:8E:120:ARG:HH12	1.66	0.60
1:13:1378:C:O2	7:6E:76:ARG:NH1	2.34	0.60
7:6E:62:PHE:HD2	7:6E:124:LEU:HD11	1.66	0.60
10:1I:49:VAL:HG23	14:5I:41:ARG:HB2	1.83	0.60
22:1K:31:G:H2'	22:1K:32:G:H8	1.66	0.60
26:1H:69:C:H2'	26:1H:70:G:H8	1.66	0.60
34:61:2:LYS:HA	34:61:20:ASP:HB2	1.83	0.60
35:58:15:LEU:HB2	35:58:134:ARG:HB3	1.83	0.60
1:1G:1206:G:O2'	3:22:192:THR:O	2.16	0.60
1:1G:1274:G:H2'	1:1G:1275:A:C8	2.36	0.60
9:82:102:LEU:O	9:82:103:THR:OG1	2.20	0.60
13:4A:70:LEU:O	13:4A:74:VAL:HG23	2.01	0.60
20:BA:87:LYS:O	20:BA:91:LEU:HG	2.00	0.60
26:14:710:G:H2'	26:14:711:G:C8	2.35	0.60
26:14:833:U:O2	37:35:55:ARG:NH1	2.34	0.60
31:39:128:ALA:C	31:39:142:TRP:HE1	2.08	0.60
33:59:152:ARG:HG3	33:59:153:LYS:HB2	1.83	0.60
41:75:26:ASP:O	41:75:49:VAL:HG22	2.01	0.60
46:C5:87:LYS:HG2	46:C5:88:LYS:H	1.66	0.60
47:D5:136:PHE:O	47:D5:137:ILE:HG13	2.01	0.60
52:I5:49:PHE:HD2	52:I5:50:VAL:HG22	1.65	0.60
1:13:443:C:H2'	1:13:444:C:H6	1.65	0.60
1:13:559:A:OP1	5:4E:126:ARG:NH2	2.34	0.60
1:13:806:C:H2'	1:13:807:A:C8	2.32	0.60
4:3E:90:GLY:HA3	4:3E:204:ILE:HD11	1.84	0.60
6:5E:34:GLY:HA3	6:5E:71:ARG:HH21	1.67	0.60
26:1H:588:U:H2'	26:1H:589:C:C6	2.37	0.60
26:1H:654(E):C:O2	26:1H:654(P):G:N2	2.35	0.60
26:1H:2653:U:OP2	26:1H:2654:A:O2'	2.14	0.60
49:J8:23:LYS:HB3	49:J8:29:GLY:HA3	1.82	0.60
52:M8:38:LYS:O	52:M8:39:CYS:HB3	2.00	0.60
52:M8:60:GLN:OE1	52:M8:61:ARG:NH1	2.34	0.60
1:1G:19:C:H1'	1:1G:917:G:N2	2.16	0.60
1:1G:409:G:N7	59:1G:1725:HOH:O	2.32	0.60
1:1G:939:G:H21	1:1G:1375:A:H2	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:972:C:O2'	10:1A:55:LYS:HB3	2.01	0.60
26:14:468:G:H5"	26:14:469:G:OP2	2.01	0.60
26:14:1041:C:H42	26:14:1114:G:H1	1.49	0.60
26:14:2602:A:H4'	26:14:2603:G:O5'	2.00	0.60
26:14:2638:G:OP2	30:29:82:ARG:NH2	2.34	0.60
26:14:2745:C:O2	33:59:139:GLN:NE2	2.34	0.60
32:49:25:TYR:OH	32:49:168:GLU:OE2	2.18	0.60
13:4I:17:VAL:O	13:4I:20:THR:OG1	2.15	0.60
13:4I:94:ARG:HH22	26:1H:887:A:H3'	1.67	0.60
20:BI:53:LEU:HB3	20:BI:57:ARG:HH12	1.66	0.60
38:88:59:ARG:HH11	38:88:59:ARG:N	1.99	0.60
55:Q8:59:LYS:H	55:Q8:59:LYS:HD2	1.65	0.60
1:1G:8:A:N6	4:32:209:ARG:HB2	2.16	0.60
1:1G:601:C:H42	1:1G:637:G:H1	1.48	0.60
1:1G:818:G:N2	1:1G:873:A:OP1	2.35	0.60
1:1G:1262:C:H2'	1:1G:1263:C:C6	2.35	0.60
4:32:172:PRO:HB2	4:32:187:ARG:NH1	2.17	0.60
8:72:42:GLU:HG3	8:72:109:ILE:HD12	1.83	0.60
26:14:34:C:O2'	26:14:35:G:OP1	2.16	0.60
26:14:287:C:H2'	26:14:288:C:H6	1.65	0.60
26:14:718:A:H3'	26:14:719:C:H6	1.66	0.60
26:14:1138:G:C2	26:14:1139:G:H1'	2.36	0.60
26:14:2095:C:H2'	26:14:2096:U:O4'	2.02	0.60
2:1E:76:GLN:NE2	2:1E:207:ALA:H	2.00	0.60
3:2E:52:LEU:HA	3:2E:70:VAL:HG12	1.82	0.60
6:5E:22:GLU:O	6:5E:26:ILE:HG13	2.00	0.60
11:2I:21:ILE:HG12	11:2I:30:VAL:HG12	1.82	0.60
12:3I:86:ARG:HB2	12:3I:101:VAL:HG22	1.83	0.60
26:1H:619:G:H3'	26:1H:620:G:N2	2.16	0.60
26:1H:1658:C:OP1	59:1H:4413:HOH:O	2.16	0.60
26:1H:2611:U:H6	26:1H:2611:U:H5'	1.65	0.60
33:51:86:GLU:HG3	33:51:165:ALA:N	2.15	0.60
34:61:92:VAL:HG13	34:61:120:ILE:HG23	1.84	0.60
41:B8:26:ASP:OD2	41:B8:120:ARG:NH1	2.29	0.60
55:Q8:27:THR:HG23	55:Q8:31:HIS:NE2	2.16	0.60
1:1G:144:G:H1	1:1G:178:C:H42	1.49	0.60
1:1G:1235:U:O2'	1:1G:1305:G:O5'	2.18	0.60
1:1G:1355:G:H2'	1:1G:1356:G:C8	2.37	0.60
8:72:114:THR:HG21	8:72:119:LEU:HG	1.83	0.60
9:82:24:GLY:HA2	9:82:59:PHE:O	2.00	0.60
9:82:117:HIS:O	9:82:118:LYS:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1168:G:H22	26:14:1182:A:H1'	1.67	0.60
26:14:2335:A:C8	26:14:2337:G:C5	2.89	0.60
26:14:2391:G:O6	26:14:2425:A:H8	1.85	0.60
1:13:254:G:O3'	17:8I:69:LYS:NZ	2.32	0.60
1:13:260:G:H2'	1:13:261:U:C6	2.36	0.60
1:13:625:G:H5'	16:7I:10:GLY:HA2	1.82	0.60
20:BI:49:ALA:CB	20:BI:99:LEU:HB2	2.31	0.60
26:1H:85:G:OP2	46:G8:9:LYS:HB2	2.02	0.60
26:1H:404:C:O2'	26:1H:405:U:OP2	2.14	0.60
26:1H:1249:U:OP1	59:1H:3824:HOH:O	2.16	0.60
1:1G:865:A:N3	1:1G:918:A:O2'	2.29	0.60
2:12:221:LEU:HA	2:12:224:GLN:HB3	1.83	0.60
3:22:61:ALA:C	3:22:63:ASN:H	2.09	0.60
20:BA:72:LEU:O	20:BA:73:HIS:HB2	2.01	0.60
26:14:747:U:OP1	53:J5:3:LYS:HD3	2.00	0.60
26:14:2392:A:H1'	37:35:61:ARG:NH2	2.16	0.60
29:19:2:ALA:HB3	29:19:20:ASP:HB2	1.83	0.60
36:25:4:PRO:O	36:25:5:GLN:HB2	2.00	0.60
38:45:43:THR:HB	38:45:45:GLN:HG2	1.83	0.60
43:95:35:LEU:C	43:95:37:VAL:HG13	2.26	0.60
53:J5:46:CYS:SG	53:J5:48:GLU:HG2	2.41	0.60
55:M5:52:LYS:HZ1	55:M5:53:PRO:HA	1.67	0.60
1:13:279:A:H4'	1:13:280:C:H5"	1.84	0.60
1:13:595:G:N1	1:13:641:U:O2'	2.31	0.60
1:13:717:C:H5"	1:13:717:C:H6	1.66	0.60
26:1H:192:C:OP2	59:1H:3624:HOH:O	2.16	0.60
26:1H:520:G:H2'	26:1H:521:G:H8	1.66	0.60
26:1H:1269:A:OP2	59:1H:4357:HOH:O	2.15	0.60
26:1H:1542:G:OP2	26:1H:1543:A:O2'	2.19	0.60
26:1H:2378:A:H2'	40:A8:21:THR:HG21	1.84	0.60
26:1H:2830:G:H5"	26:1H:2830:G:H8	1.65	0.60
47:H8:3:TYR:O	47:H8:58:VAL:HG22	2.01	0.60
1:1G:749:C:H2'	1:1G:750:G:H8	1.66	0.60
1:1G:1129:C:N3	1:1G:1143:G:N2	2.49	0.60
1:1G:1134:G:H2'	1:1G:1135:U:O4'	2.01	0.60
4:32:88:VAL:HG22	5:42:96:PRO:HB2	1.83	0.60
13:4A:13:LYS:HA	13:4A:44:ARG:NH1	2.14	0.60
26:14:2836:U:H2'	26:14:2837:G:C8	2.37	0.60
30:29:103:ASP:OD1	30:29:201:THR:HG23	2.02	0.60
31:39:179:GLU:O	31:39:205:ARG:NH2	2.28	0.60
43:95:70:ILE:N	43:95:86:GLY:O	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2E:19:GLU:HG3	3:2E:54:ARG:CZ	2.32	0.60
7:6E:15:ASP:OD2	7:6E:18:TYR:N	2.35	0.60
8:7E:81:HIS:N	8:7E:138:TRP:O	2.31	0.60
11:2I:124:LYS:HD2	11:2I:125:PHE:CE1	2.37	0.60
12:3I:8:ASN:O	12:3I:11:VAL:HG23	2.02	0.60
26:1H:564:C:H2'	26:1H:565:C:H6	1.65	0.60
26:1H:897:C:H3'	26:1H:898:C:H5"	1.83	0.60
26:1H:950:G:H2'	26:1H:951:C:C6	2.37	0.60
26:1H:1036:G:H1	26:1H:1119:C:H42	1.50	0.60
26:1H:1566:A:O2'	26:1H:1567:A:H5'	2.01	0.60
26:1H:2591:C:P	29:11:239:ARG:HG3	2.41	0.60
37:78:16:ARG:HG2	37:78:17:LYS:N	2.17	0.60
40:A8:34:HIS:HB2	40:A8:36:TYR:CE1	2.34	0.60
44:E8:12:ILE:HG13	44:E8:42:ARG:NH1	2.16	0.60
1:1G:22:G:H2'	1:1G:23:C:C6	2.37	0.60
1:1G:456:C:N4	1:1G:476:G:H1	1.99	0.60
12:3A:70:ILE:HD13	12:3A:77:LEU:HD12	1.83	0.60
20:BA:49:ALA:HA	20:BA:52:ALA:HB3	1.84	0.60
26:14:329:G:H8	26:14:329:G:OP1	1.85	0.60
26:14:2056:G:O3'	53:J5:8:LYS:NZ	2.35	0.60
26:14:2831:G:OP1	30:29:58:ARG:NH1	2.31	0.60
27:1J:101:A:OP2	27:1J:101:A:H8	1.84	0.60
44:A5:23:LEU:HD11	53:J5:27:PRO:HB3	1.82	0.60
55:M5:52:LYS:NZ	55:M5:53:PRO:HA	2.17	0.60
1:13:235:C:H2'	1:13:236:G:H8	1.67	0.60
1:13:1139:G:H4'	1:13:1140:C:H5'	1.82	0.60
2:1E:69:LEU:HB3	2:1E:162:ILE:HG22	1.83	0.60
2:1E:178:ARG:HG3	8:7E:72:PRO:HA	1.83	0.60
10:1I:57:LYS:O	10:1I:60:ARG:NH1	2.34	0.60
20:BI:10:LEU:HD21	20:BI:12:ALA:HB3	1.83	0.60
29:11:53:PHE:C	29:11:218:ARG:HG3	2.27	0.60
31:31:7:TYR:O	31:31:22:ALA:N	2.33	0.60
32:41:161:THR:HG23	32:41:163:ALA:H	1.66	0.60
35:58:56:ASN:N	35:58:125:GLY:O	2.25	0.60
35:58:67:LEU:HA	35:58:87:LEU:HD12	1.82	0.60
42:C8:62:ILE:HG23	42:C8:76:TYR:CE2	2.37	0.60
47:H8:165:VAL:HB	47:H8:166:SER:HA	1.82	0.60
1:1G:976:G:N2	1:1G:1362(A):C:OP2	2.34	0.60
1:1G:1095:U:P	1:1G:1108:G:H1	2.24	0.60
6:52:39:LYS:HE2	6:52:62:TRP:HZ3	1.67	0.60
24:3L:9:A:O2'	24:3L:10:G:N7	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:605:C:O2	26:14:657:U:O2'	2.20	0.60
26:14:1251:C:OP1	42:85:10:ARG:HG3	2.01	0.60
26:14:1486:A:H2'	26:14:1487:G:H8	1.67	0.60
26:14:1999:C:H4'	26:14:2723:C:O2	2.01	0.60
27:1J:64:C:H2'	27:1J:65:C:C6	2.36	0.60
46:C5:15:VAL:HG12	46:C5:21:LYS:HA	1.82	0.60
13:4I:11:ARG:HG3	13:4I:12:ASN:N	2.16	0.60
14:5I:13:THR:HG23	14:5I:20:ALA:HB2	1.84	0.60
22:1K:52:C:O2	22:1K:65:G:N2	2.34	0.60
26:1H:602:G:N2	26:1H:655:A:C8	2.67	0.60
26:1H:792:G:H5"	26:1H:793:A:H5'	1.82	0.60
26:1H:2059:A:OP2	59:1H:4186:HOH:O	2.16	0.60
27:16:42:C:O2'	32:41:67:LYS:O	2.12	0.60
41:B8:102:ILE:HA	41:B8:105:LEU:HD22	1.84	0.60
1:1G:801:U:H2'	1:1G:802:A:C8	2.37	0.60
4:32:31:CYS:SG	4:32:33:MET:HB2	2.42	0.60
26:14:120:U:OP2	59:14:3927:HOH:O	2.16	0.60
26:14:2358:G:H22	37:35:55:ARG:HH22	1.50	0.60
26:14:2762:G:H5'	26:14:2763:G:OP2	2.02	0.60
32:49:55:LYS:O	32:49:59:GLU:HB3	2.01	0.60
51:H5:7:LYS:HE2	51:H5:32:GLN:HG3	1.84	0.60
1:13:262:A:H2'	1:13:263:A:C8	2.37	0.59
8:7E:86:ILE:HG12	8:7E:135:CYS:HA	1.83	0.59
22:1K:6:G:H1	22:1K:68:C:H42	1.49	0.59
26:1H:2591:C:H2'	26:1H:2592:G:C8	2.36	0.59
27:16:116:G:H5"	40:A8:55:ALA:HB2	1.83	0.59
32:41:134:GLY:C	32:41:135:LEU:HD12	2.27	0.59
33:51:4:ILE:HG13	33:51:6:ARG:NE	2.17	0.59
1:1G:581:G:H8	1:1G:581:G:O5'	1.85	0.59
1:1G:1014:A:H2'	1:1G:1015:A:C8	2.37	0.59
1:1G:1422:G:H2'	1:1G:1423:G:H8	1.67	0.59
1:1G:1513:A:H2'	1:1G:1514:C:C6	2.36	0.59
3:22:14:ILE:HG12	3:22:15:THR:H	1.67	0.59
24:3L:66:U:H2'	24:3L:67:C:O4'	2.02	0.59
24:3L:76:A:N1	26:14:2421:G:H2'	2.17	0.59
26:14:1007:C:OP1	35:15:35:ARG:NH1	2.34	0.59
26:14:1257:C:H4'	31:39:83:PHE:CD1	2.37	0.59
26:14:2331:G:O3'	48:E5:43:THR:HG22	2.02	0.59
36:25:35:VAL:HG11	36:25:103:ALA:HB3	1.84	0.59
1:13:524:G:H2'	1:13:525:C:C6	2.37	0.59
1:13:868:C:H2'	1:13:869:G:O4'	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1434:A:H2'	1:13:1435:G:O4'	2.03	0.59
6:5E:69:GLU:O	6:5E:72:VAL:HG12	2.03	0.59
26:1H:26:G:C6	26:1H:27:G:N1	2.69	0.59
26:1H:1062:G:N2	26:1H:1076:C:O2	2.36	0.59
27:16:6:C:H2'	27:16:7:G:H5"	1.83	0.59
30:21:118:LYS:HG2	30:21:118:LYS:O	2.01	0.59
35:58:1:MET:HE2	43:D8:13:ARG:H	1.67	0.59
1:1G:199:G:H2'	1:1G:200:G:H8	1.67	0.59
1:1G:1273:G:H3'	1:1G:1274:G:H8	1.66	0.59
5:42:67:VAL:HB	5:42:140:ARG:HH21	1.68	0.59
7:62:37:ASN:ND2	9:82:39:GLY:O	2.35	0.59
24:3L:5:G:O2'	24:3L:69:G:N2	2.35	0.59
26:14:34:C:HO2'	26:14:35:G:P	2.24	0.59
26:14:649:G:H2'	26:14:650:C:C6	2.37	0.59
26:14:710:G:H2'	26:14:711:G:H8	1.65	0.59
26:14:1473:G:H1	26:14:1520:U:H3	1.50	0.59
26:14:2831:G:P	30:29:58:ARG:HH11	2.25	0.59
30:29:171:GLU:HB3	30:29:185:LYS:HG3	1.83	0.59
32:49:125:PHE:HD1	32:49:166:ASP:HB2	1.67	0.59
37:35:34:GLY:O	37:35:36:LYS:HB2	2.02	0.59
45:B5:65:ARG:HB3	45:B5:70:LEU:HB3	1.84	0.59
47:D5:40:ASP:HB3	47:D5:43:GLU:HG3	1.83	0.59
1:13:127:G:O2'	17:8I:2:PRO:O	2.19	0.59
1:13:376:G:H2'	1:13:377:G:H8	1.66	0.59
1:13:1194:U:H2'	1:13:1195:C:C6	2.37	0.59
8:7E:1:MET:HE1	8:7E:3:THR:HG23	1.84	0.59
23:2K:63:C:H2'	23:2K:64:G:C8	2.38	0.59
26:1H:607:U:OP1	31:31:102:PRO:HA	2.02	0.59
26:1H:816:C:OP2	59:1H:3819:HOH:O	2.16	0.59
37:78:96:THR:H	37:78:99:LEU:HD21	1.66	0.59
48:I8:14:ARG:NH1	59:I8:205:HOH:O	2.10	0.59
1:1G:21:G:OP1	59:1G:1742:HOH:O	2.17	0.59
1:1G:1108:G:H5'	3:22:176:HIS:ND1	2.16	0.59
11:2A:34:ASP:HB2	11:2A:35:PRO:HD2	1.83	0.59
13:4A:68:GLY:HA3	32:49:116:ASP:OD1	2.02	0.59
26:14:1337:G:H2'	26:14:1338:G:C8	2.33	0.59
26:14:2250:G:C5	38:45:82:ARG:HG3	2.37	0.59
40:65:10:ARG:O	40:65:14:VAL:HG22	2.01	0.59
41:75:4:GLY:O	41:75:7:ILE:N	2.34	0.59
1:13:920:U:H2'	1:13:921:U:C6	2.37	0.59
6:5E:18:GLN:HA	6:5E:21:LEU:HD13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:6E:63:LYS:O	7:6E:66:VAL:HG12	2.01	0.59
8:7E:20:TYR:HE2	8:7E:75:ARG:HD2	1.67	0.59
26:1H:277:C:H3'	26:1H:278:A:O4'	2.02	0.59
26:1H:444:C:H4'	31:31:49:ALA:HB2	1.84	0.59
26:1H:581:C:H2'	26:1H:582:G:C8	2.37	0.59
26:1H:1406:U:H2'	26:1H:1407:C:C6	2.37	0.59
26:1H:2111:C:H2'	26:1H:2118:U:H4'	1.85	0.59
26:1H:2126:A:N1	26:1H:2162:G:N2	2.44	0.59
26:1H:2562:U:H1'	36:68:23:ARG:HD3	1.84	0.59
26:1H:2688:U:C5	26:1H:2720:U:OP2	2.55	0.59
30:21:4:ILE:HG12	30:21:28:ALA:HB1	1.84	0.59
39:98:79:LEU:HD23	39:98:83:ILE:HB	1.83	0.59
45:F8:3:THR:CB	45:F8:6:ASP:HB2	2.31	0.59
50:K8:42:GLY:C	50:K8:44:LEU:H	2.08	0.59
4:32:110:PHE:HD1	4:32:110:PHE:H	1.50	0.59
7:62:15:ASP:OD1	7:62:44:TYR:OH	2.20	0.59
13:4A:78:ILE:HA	13:4A:81:LEU:HD12	1.84	0.59
16:7A:11:SER:O	16:7A:14:ASN:N	2.35	0.59
26:14:273(C):C:H42	26:14:363(C):G:H1	1.51	0.59
26:14:690:G:O2'	29:19:43:ARG:NH2	2.35	0.59
26:14:987:G:O2'	26:14:1000:A:N3	2.34	0.59
26:14:2015:A:N3	53:J5:2:ALA:N	2.51	0.59
26:14:2517:C:O2'	26:14:2519:U:H5	1.84	0.59
26:14:2520:C:H2'	26:14:2521:C:H6	1.67	0.59
26:14:2778:A:H8	26:14:2778:A:H5"	1.67	0.59
30:29:201:THR:HG22	30:29:202:LYS:H	1.67	0.59
32:49:61:ALA:HB2	32:49:68:PRO:HD3	1.84	0.59
41:75:120:ARG:O	41:75:124:ASP:HB3	2.02	0.59
5:4E:109:ILE:HG22	5:4E:110:LEU:HD23	1.84	0.59
9:8E:86:VAL:O	9:8E:90:PRO:HB3	2.02	0.59
10:1I:15:THR:O	10:1I:19:SER:OG	2.14	0.59
15:6I:7:GLU:OE1	15:6I:38:ARG:NH2	2.36	0.59
26:1H:64:A:C4	45:F8:66:LEU:HD22	2.37	0.59
26:1H:860:U:C5	26:1H:917:A:C2	2.86	0.59
26:1H:1375:C:H2'	26:1H:1376:C:H6	1.68	0.59
26:1H:1505:C:H2'	26:1H:1506:C:C6	2.37	0.59
26:1H:2327:A:H2'	26:1H:2328:A:H8	1.67	0.59
29:11:182:LEU:N	29:11:272:ALA:HB3	2.18	0.59
47:H8:30:ASN:OD1	47:H8:33:LEU:N	2.34	0.59
1:1G:561:U:O2'	1:1G:562:C:OP2	2.19	0.59
1:1G:841:U:O2'	1:1G:842:C:H5"	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1320:C:H1'	19:AA:73:GLU:HG2	1.84	0.59
10:1A:48:THR:CA	10:1A:62:HIS:HB3	2.29	0.59
26:14:563:G:OP2	59:14:3930:HOH:O	2.17	0.59
26:14:854:G:H2'	26:14:855:G:H8	1.67	0.59
27:1J:24:G:H4'	27:1J:25:A:C8	2.37	0.59
36:25:68:GLU:OE2	36:25:78:ARG:NH1	2.35	0.59
1:13:630:G:H2'	1:13:631:G:O4'	2.03	0.59
1:13:1366:C:H2'	1:13:1367:C:C6	2.38	0.59
1:13:1505:G:H5'	59:13:1801:HOH:O	2.02	0.59
4:3E:173:TRP:CD1	4:3E:174:LEU:HG	2.37	0.59
5:4E:84:PHE:HB2	5:4E:134:ALA:HB2	1.84	0.59
22:1K:56:U:N3	22:1K:59:A:OP2	2.35	0.59
26:1H:782:A:C2	29:11:226:MET:HG2	2.38	0.59
26:1H:2329:G:H21	48:I8:41:ARG:HG3	1.67	0.59
2:12:54:THR:HG23	2:12:199:TYR:HB3	1.83	0.59
26:14:259:G:O2'	26:14:621:A:O2'	2.20	0.59
26:14:1313:U:H4'	26:14:1332:G:H4'	1.84	0.59
26:14:1425:G:H2'	26:14:1426:G:C8	2.38	0.59
26:14:1590:U:H2'	26:14:1591:G:C8	2.37	0.59
26:14:1992:G:OP2	59:14:3515:HOH:O	2.17	0.59
26:14:2529:G:H21	26:14:2529:G:P	2.25	0.59
38:45:79:LEU:H	38:45:80:GLU:HG2	1.66	0.59
46:C5:42:VAL:HG13	46:C5:65:ALA:HB3	1.85	0.59
1:13:1346:A:H5"	9:8E:120:ARG:NH1	2.17	0.59
26:1H:270(G):C:H2'	26:1H:270(H):C:O4'	2.02	0.59
26:1H:1069:A:O2'	26:1H:1072:C:OP2	2.20	0.59
26:1H:2157:G:O2'	26:1H:2158:A:O5'	2.20	0.59
26:1H:2730:C:OP1	30:21:101:ARG:NH2	2.36	0.59
26:1H:2815:C:O2'	53:N8:42:PRO:HG2	2.03	0.59
31:31:24:LEU:HD21	31:31:114:VAL:HG12	1.85	0.59
38:88:59:ARG:C	38:88:61:GLY:N	2.61	0.59
51:L8:8:LEU:HA	51:L8:54:VAL:HB	1.83	0.59
1:1G:942:G:H21	9:82:124:GLN:NE2	2.00	0.59
1:1G:1481:U:H2'	1:1G:1482:G:C8	2.37	0.59
4:32:153:ARG:NH1	4:32:181:MET:SD	2.76	0.59
8:72:45:ILE:HG13	8:72:47:GLY:H	1.66	0.59
26:14:592:G:H1	26:14:665:C:N4	2.01	0.59
26:14:922:U:H2'	26:14:923:C:C6	2.38	0.59
26:14:1592:C:H2'	26:14:1593:G:C8	2.34	0.59
26:14:2392:A:H8	37:35:61:ARG:HD2	1.67	0.59
26:14:2738:A:H61	26:14:2766:G:H1	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1502:A:H5"	1:13:1504:G:N7	2.18	0.59
26:1H:1412:A:H2'	26:1H:1413:G:C8	2.38	0.59
26:1H:1632:A:OP2	59:1H:4380:HOH:O	2.16	0.59
26:1H:2360:A:OP1	55:Q8:49:VAL:HB	2.01	0.59
26:1H:2836:U:H2'	26:1H:2837:G:C8	2.38	0.59
31:39:122:LYS:HB3	31:39:191:ARG:HB2	1.84	0.59
38:45:132:VAL:HG21	47:D5:81:ARG:HE	1.67	0.59
39:55:106:GLY:O	39:55:107:ASP:HB3	2.03	0.59
48:E5:82:ARG:HD3	48:E5:83:PRO:HD2	1.83	0.59
1:13:376:G:H2'	1:13:377:G:C8	2.37	0.59
5:4E:45:PHE:CE2	5:4E:47:LYS:HD2	2.37	0.59
26:1H:321:G:OP2	31:31:135:LYS:HG3	2.03	0.59
26:1H:568:U:O4	59:1H:3809:HOH:O	2.15	0.59
29:11:2:ALA:HA	29:11:20:ASP:HB3	1.84	0.59
39:98:37:THR:OG1	39:98:40:LYS:HE3	2.03	0.59
1:1G:412:A:O2'	1:1G:413:G:OP2	2.18	0.59
1:1G:636:U:H2'	1:1G:637:G:H8	1.68	0.59
5:42:41:VAL:O	5:42:67:VAL:HG12	2.02	0.59
20:BA:43:LEU:HD13	20:BA:51:GLU:HG3	1.84	0.59
26:14:747:U:C6	53:J5:2:ALA:HB3	2.38	0.59
36:25:22:ILE:HB	36:25:41:ALA:HA	1.84	0.59
37:35:31:ALA:O	37:35:32:THR:OG1	2.21	0.59
1:13:963:G:H21	10:1I:55:LYS:CE	2.14	0.59
1:13:1024:G:H4'	1:13:1024:G:OP1	2.02	0.59
1:13:1423:G:P	36:68:49:ARG:HH22	2.25	0.59
3:2E:79:ARG:NH1	18:9A:87:ARG:HH12	2.01	0.59
3:2E:130:VAL:O	3:2E:134:ILE:HG13	2.03	0.59
8:7E:1:MET:SD	8:7E:2:LEU:N	2.76	0.59
26:1H:2309:A:C5	26:1H:2310:A:C8	2.91	0.59
30:21:67:PHE:O	30:21:69:LYS:HE2	2.03	0.59
30:21:101:ARG:O	30:21:201:THR:OG1	2.20	0.59
34:61:124:GLY:H	34:61:142:VAL:HG23	1.68	0.59
37:78:85:LEU:HA	37:78:88:LEU:HD22	1.84	0.59
41:B8:50:ILE:HG22	41:B8:51:ARG:HG2	1.85	0.59
52:M8:18:CYS:HB3	52:M8:39:CYS:HB2	1.84	0.59
1:1G:409:G:O6	1:1G:433:C:N4	2.35	0.59
26:14:288:C:H2'	26:14:289:A:C8	2.38	0.59
26:14:1093:G:H1	26:14:1097:U:H5"	1.68	0.59
36:25:17:ARG:HB3	36:25:18:LYS:HD2	1.84	0.59
37:35:3:LEU:H	37:35:3:LEU:HD12	1.67	0.59
43:95:67:GLY:O	43:95:88:ARG:HD2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:595:G:H1'	1:13:596:C:H5	1.68	0.58
1:13:1311:G:N2	1:13:1326:C:O2	2.32	0.58
12:3I:83:VAL:HG21	12:3I:100:ILE:HG12	1.84	0.58
26:1H:182:A:O2'	26:1H:433:C:O2'	2.15	0.58
26:1H:192:C:OP1	59:1H:3619:HOH:O	2.16	0.58
26:1H:524:U:H2'	26:1H:525:U:H6	1.68	0.58
26:1H:994:C:OP1	42:C8:53:ARG:NH2	2.36	0.58
26:1H:2186:G:H2'	26:1H:2187:G:C8	2.38	0.58
26:1H:2431:U:OP2	59:1H:3843:HOH:O	2.17	0.58
26:1H:2784:C:O2	30:21:37:ARG:NH1	2.35	0.58
35:58:137:LYS:HZ2	35:58:138:LEU:H	1.49	0.58
43:D8:43:GLU:HB2	43:D8:44:LYS:HE2	1.84	0.58
1:1G:1349:A:P	9:82:118:LYS:HZ1	2.26	0.58
3:22:182:ILE:HG22	3:22:203:PHE:HA	1.85	0.58
26:14:580:C:H2'	26:14:581:C:C6	2.38	0.58
26:14:963:U:H2'	26:14:964:C:C6	2.37	0.58
26:14:2038:G:H2'	26:14:2039:C:C6	2.38	0.58
26:14:2130:U:H2'	26:14:2158:A:N1	2.17	0.58
26:14:2496:C:P	38:45:81:VAL:HG12	2.42	0.58
27:1J:48:A:H4'	40:65:95:HIS:CD2	2.33	0.58
31:39:25:PRO:HD3	31:39:115:ALA:HB1	1.84	0.58
40:65:34:HIS:CD2	40:65:54:LEU:HB2	2.38	0.58
1:13:1435:G:H2'	1:13:1436:U:C6	2.39	0.58
2:1E:111:ARG:HG2	2:1E:111:ARG:NH1	2.12	0.58
4:3E:9:CYS:SG	4:3E:31:CYS:O	2.61	0.58
4:3E:15:GLU:OE2	4:3E:66:ARG:NH1	2.33	0.58
5:4E:144:THR:H	5:4E:147:ASP:HB2	1.68	0.58
12:3I:89:ARG:HB2	12:3I:97:ARG:HA	1.86	0.58
26:1H:1614:A:H2	59:1H:3862:HOH:O	1.86	0.58
26:1H:2056:G:C2	26:1H:2057:A:C8	2.91	0.58
26:1H:2062:A:OP1	59:1H:3780:HOH:O	2.17	0.58
28:71:26:ALA:HB2	28:71:189:ILE:HD12	1.84	0.58
35:58:99:LEU:O	35:58:103:VAL:HG23	2.02	0.58
41:B8:78:LEU:O	41:B8:78:LEU:HD13	2.04	0.58
45:F8:84:ALA:HB3	45:F8:87:GLN:OE1	2.03	0.58
55:Q8:59:LYS:HB2	55:Q8:60:LEU:HG	1.83	0.58
1:1G:673:G:H2'	1:1G:674:G:C8	2.37	0.58
1:1G:1047:G:H1	1:1G:1210:C:H42	1.49	0.58
1:1G:1395:C:HO2'	1:1G:1401:G:HO2'	1.50	0.58
2:12:105:PHE:HA	2:12:108:ILE:HB	1.85	0.58
3:22:32:LEU:O	3:22:36:ASP:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:42:76:ILE:HG23	5:42:77:PRO:HD2	1.85	0.58
26:14:107:C:H2'	26:14:108:U:H6	1.68	0.58
26:14:975:G:H1'	26:14:990:A:C2	2.39	0.58
41:75:8:LYS:CA	41:75:8:LYS:HZ2	2.17	0.58
1:13:970:C:H42	9:8E:128:ARG:C	2.11	0.58
2:1E:17:PHE:HB3	2:1E:44:LEU:HD21	1.83	0.58
4:3E:22:LYS:HB2	4:3E:26:CYS:CB	2.33	0.58
5:4E:45:PHE:CD2	5:4E:47:LYS:HD2	2.38	0.58
8:7E:10:LEU:HD13	8:7E:83:ILE:HD11	1.85	0.58
26:1H:1021:A:H8	26:1H:1022:G:H5"	1.67	0.58
26:1H:1257:C:H4'	31:31:83:PHE:CE1	2.38	0.58
26:1H:2548:G:N7	59:1H:4285:HOH:O	2.32	0.58
32:41:129:GLY:O	32:41:161:THR:HG22	2.03	0.58
37:78:57:THR:HB	37:78:59:LEU:H	1.68	0.58
40:A8:24:LEU:HB2	40:A8:85:VAL:HG12	1.85	0.58
44:E8:24:ILE:HG12	44:E8:36:LEU:HD21	1.85	0.58
1:1G:130:A:C8	17:8A:63:ARG:HG3	2.39	0.58
1:1G:261:U:OP2	20:BA:80:ARG:NH2	2.37	0.58
1:1G:958:A:N3	1:1G:985:C:O2'	2.35	0.58
1:1G:1261:A:OP2	1:1G:1262:C:N4	2.36	0.58
3:22:33:LEU:HD21	14:5A:53:LEU:HD21	1.85	0.58
10:1A:13:HIS:O	10:1A:17:ASP:HB2	2.03	0.58
11:2A:12:ARG:NH2	11:2A:13:GLN:O	2.36	0.58
56:2L:24:C:H2'	56:2L:25:U:C6	2.37	0.58
26:14:68:G:H2'	26:14:69:C:C6	2.38	0.58
26:14:1204:A:H2	26:14:1241:A:N1	2.01	0.58
26:14:2564:A:OP1	26:14:2648:C:H4'	2.03	0.58
26:14:2791:C:H42	26:14:2805:G:H1	1.52	0.58
26:14:2808:U:H3	26:14:2892:A:H62	1.51	0.58
26:14:2821:A:H3'	59:14:3920:HOH:O	2.02	0.58
27:1J:42:C:O2	32:49:93:THR:N	2.23	0.58
29:19:108:PRO:HG2	29:19:111:LEU:HG	1.86	0.58
46:C5:3:VAL:HG11	46:C5:32:PRO:HB2	1.85	0.58
1:13:141:A:H1'	1:13:182:U:C2	2.38	0.58
1:13:448:A:P	1:13:485:G:H22	2.25	0.58
1:13:1183:A:O2'	1:13:1184:G:OP1	2.15	0.58
8:7E:14:ARG:O	8:7E:18:ARG:HD3	2.02	0.58
26:1H:353:G:H2'	26:1H:354:G:H8	1.68	0.58
26:1H:654:A:H2'	26:1H:654(A):A:C8	2.39	0.58
26:1H:945:A:H4'	59:1H:4058:HOH:O	2.03	0.58
34:61:114:LEU:HD22	34:61:114:LEU:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:Q8:38:GLY:HA2	55:Q8:39:LYS:C	2.29	0.58
55:Q8:50:LEU:O	55:Q8:52:LYS:N	2.34	0.58
1:1G:430:A:OP1	4:32:9:CYS:N	2.37	0.58
15:6A:39:LEU:HD12	15:6A:56:LEU:HD13	1.85	0.58
24:3L:71:G:H2'	24:3L:72:C:H5"	1.84	0.58
26:14:26:G:H1'	26:14:515:A:H61	1.68	0.58
26:14:807:U:H2'	26:14:808:G:H8	1.67	0.58
26:14:1593:G:H2'	26:14:1594:G:C8	2.39	0.58
27:1J:44:G:H1'	27:1J:47:C:H42	1.68	0.58
27:1J:46:A:H2'	27:1J:47:C:C6	2.38	0.58
29:19:206:LEU:HD22	29:19:211:ARG:HG2	1.86	0.58
40:65:27:SER:HA	40:65:88:ASP:HB2	1.86	0.58
40:65:84:GLN:HA	40:65:110:LEU:HD12	1.86	0.58
41:75:50:ILE:HD11	41:75:102:ILE:HD11	1.85	0.58
42:85:88:ILE:HG22	42:85:90:VAL:HG23	1.85	0.58
1:13:429:U:H1'	1:13:430:A:H5"	1.85	0.58
1:13:1157:A:N6	1:13:1178:G:H21	2.00	0.58
1:13:1190:G:OP1	3:2E:4:LYS:HA	2.03	0.58
7:6E:5:ARG:HE	7:6E:7:ALA:HA	1.69	0.58
7:6E:23:VAL:O	7:6E:27:ILE:HG12	2.03	0.58
26:1H:363(B):G:H2'	26:1H:363(C):G:C8	2.35	0.58
26:1H:1290:C:H2'	26:1H:1291:C:C6	2.38	0.58
26:1H:2343:C:O2'	26:1H:2373:G:O2'	2.21	0.58
27:16:50:G:OP1	40:A8:63:THR:HG23	2.02	0.58
28:71:226:PRO:HD2	28:71:227:HIS:CD2	2.38	0.58
43:D8:57:VAL:HG23	43:D8:99:ILE:HG23	1.83	0.58
7:62:132:GLY:HA3	7:62:135:VAL:HG23	1.84	0.58
18:9A:52:PRO:O	18:9A:56:THR:HG23	2.04	0.58
20:BA:74:LYS:HG3	20:BA:76:ALA:H	1.68	0.58
26:14:190:A:OP2	49:F5:39:LYS:NZ	2.37	0.58
26:14:309:G:N3	26:14:329:G:O2'	2.36	0.58
26:14:1166:C:H42	26:14:1182:A:H61	1.50	0.58
26:14:2033:A:OP1	59:14:3952:HOH:O	2.17	0.58
26:14:2111:C:H42	26:14:2147:G:H21	1.50	0.58
26:14:2207:C:O2	29:19:151:LYS:NZ	2.34	0.58
26:14:2666:C:C2'	26:14:2667:C:H5'	2.34	0.58
26:14:2851:A:H2'	26:14:2852:G:C8	2.39	0.58
31:39:192:LEU:HD23	31:39:193:VAL:N	2.18	0.58
1:13:304:U:H2'	1:13:305:G:C8	2.39	0.58
1:13:1342:C:O2'	9:8E:124:GLN:HG2	2.04	0.58
26:1H:250:G:H2'	26:1H:251:A:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:960:A:H61	38:88:82:ARG:HH21	1.51	0.58
26:1H:1042:G:H1	26:1H:1113:U:H3	1.52	0.58
26:1H:1161:C:H1'	43:D8:8:GLY:O	2.03	0.58
26:1H:1359:A:C2	26:1H:1372:U:O4	2.57	0.58
26:1H:2023:G:H5'	26:1H:2617:C:H4'	1.84	0.58
26:1H:2096:U:H3	26:1H:2193:G:H1	1.51	0.58
26:1H:2316:C:H2'	26:1H:2317:C:C6	2.38	0.58
26:1H:2592:G:P	59:1H:4409:HOH:O	2.60	0.58
26:1H:2636:U:OP2	30:21:79:ARG:HD2	2.03	0.58
26:1H:2787:C:H1'	30:21:62:PRO:HG3	1.85	0.58
28:71:183:GLU:HG2	28:71:184:LYS:NZ	2.18	0.58
29:11:37:LEU:HB3	29:11:59:LYS:NZ	2.18	0.58
34:61:110:ASP:OD1	34:61:130:TYR:OH	2.10	0.58
1:1G:631:G:H3'	1:1G:632:A:H8	1.69	0.58
1:1G:1226:C:H4'	19:AA:80:TYR:OH	2.02	0.58
1:1G:1378:C:H5"	1:1G:1379:G:OP2	2.04	0.58
18:9A:36:ASN:ND2	18:9A:36:ASN:O	2.34	0.58
24:3L:3:C:H2'	24:3L:4:C:O4'	2.04	0.58
26:14:2720:U:N3	26:14:2873:A:H2	2.00	0.58
30:29:151:TYR:HD2	30:29:154:LYS:HZ3	1.51	0.58
35:15:51:PHE:CE1	35:15:119:ARG:HD3	2.38	0.58
52:I5:40:HIS:CD2	52:I5:45:GLY:HA3	2.39	0.58
1:13:417:C:H2'	1:13:418:C:H6	1.68	0.58
1:13:1178:G:N7	9:8E:97:LYS:NZ	2.52	0.58
2:1E:67:THR:HG21	2:1E:155:LEU:HG	1.84	0.58
26:1H:1113:U:H2'	26:1H:1114:G:H8	1.68	0.58
26:1H:1337:G:H2'	26:1H:1338:G:C8	2.38	0.58
26:1H:1388:G:H2'	26:1H:1389:G:C8	2.34	0.58
26:1H:1591:G:H2'	26:1H:1592:C:H6	1.68	0.58
26:1H:2062:A:H5'	59:1H:3783:HOH:O	2.04	0.58
27:16:116:G:C5'	40:A8:55:ALA:HB2	2.34	0.58
48:I8:50:ASN:C	48:I8:62:LEU:HD12	2.28	0.58
1:1G:1203:C:H2'	1:1G:1204:A:O4'	2.04	0.58
1:1G:1342:C:H4'	9:82:125:TYR:HB3	1.84	0.58
1:1G:1443:G:O2'	41:75:122:ASP:OD2	2.21	0.58
9:82:13:ALA:HB2	9:82:68:GLY:HA3	1.85	0.58
15:6A:48:LYS:HA	15:6A:48:LYS:NZ	2.19	0.58
19:AA:80:TYR:CZ	19:AA:82:GLY:HA2	2.39	0.58
26:14:2287:A:H8	26:14:2287:A:H5"	1.67	0.58
30:29:35:GLN:H	30:29:48:GLN:HB2	1.68	0.58
33:59:75:ALA:O	33:59:79:VAL:HG13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:35:47:ASP:HB3	37:35:49:ARG:N	2.19	0.58
45:B5:8:ILE:H	45:B5:8:ILE:HD12	1.68	0.58
46:C5:75:ILE:O	46:C5:76:CYS:HB3	2.04	0.58
47:D5:10:ARG:HD2	47:D5:36:LYS:HE2	1.86	0.58
1:13:774:G:H2'	1:13:775:G:H8	1.68	0.58
1:13:991:U:O4	1:13:1212:U:O2'	2.18	0.58
1:13:1203:C:H2'	1:13:1204:A:O4'	2.04	0.58
2:1E:11:LEU:O	2:1E:16:HIS:NE2	2.36	0.58
24:3K:19:G:C6	26:1H:2112:G:H1'	2.38	0.58
26:1H:107:C:H2'	26:1H:108:U:C6	2.39	0.58
26:1H:619:G:H5"	26:1H:620:G:OP2	2.04	0.58
26:1H:848:G:H2'	26:1H:849:A:C8	2.38	0.58
26:1H:1221:C:H2'	26:1H:1222:C:H6	1.68	0.58
26:1H:2359:C:H4'	55:Q8:49:VAL:HG11	1.84	0.58
34:61:4:ILE:HG21	34:61:47:LEU:HD22	1.85	0.58
1:1G:440:A:H8	1:1G:440:A:OP2	1.87	0.58
1:1G:1299:A:N1	1:1G:1301:U:N3	2.52	0.58
1:1G:1310:G:OP1	13:4A:77:ASN:ND2	2.33	0.58
1:1G:1347:G:N2	1:1G:1373:G:H2'	2.19	0.58
5:42:42:GLY:HA3	5:42:65:ASN:O	2.03	0.58
5:42:107:ARG:O	5:42:110:LEU:N	2.36	0.58
56:2L:22:A:N6	56:2L:47:7MG:H2'	2.18	0.58
24:3L:23:A:H2'	24:3L:24:G:H8	1.67	0.58
26:14:353:G:H2'	26:14:354:G:H8	1.68	0.58
1:13:51:A:OP2	1:13:52:G:H8	1.86	0.58
1:13:114:U:H2'	1:13:115:G:H8	1.68	0.58
1:13:368:U:OP1	34:69:91:SER:OG	2.20	0.58
26:1H:198:C:H4'	26:1H:2243:U:O2'	2.04	0.58
26:1H:1465:G:H2'	26:1H:1466:G:C8	2.35	0.58
26:1H:2314:C:H2'	26:1H:2315:G:C8	2.35	0.58
26:1H:2335:A:C8	26:1H:2337:G:C5	2.91	0.58
34:61:73:GLU:HG3	34:61:136:VAL:HG23	1.86	0.58
1:1G:260:G:H2'	1:1G:261:U:C6	2.39	0.58
1:1G:353:A:H5'	1:1G:353:A:H8	1.68	0.58
1:1G:574:A:HO2'	1:1G:882:C:HO2'	1.51	0.58
1:1G:960:U:N3	1:1G:1225:A:N3	2.51	0.58
1:1G:1046:A:H61	1:1G:1213:A:H61	1.52	0.58
24:3L:76:A:H8	26:14:2394:C:H42	1.52	0.58
26:14:240:G:O6	59:14:3628:HOH:O	2.17	0.58
26:14:977:G:H2'	26:14:978:G:H8	1.68	0.58
26:14:1847:A:O2'	26:14:1848:A:H5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1952:A:C5	36:25:22:ILE:HD11	2.39	0.58
31:39:78:ILE:H	31:39:78:ILE:HD13	1.68	0.58
48:E5:27:GLU:HG3	48:E5:68:GLU:HA	1.85	0.58
1:13:272:C:H2'	1:13:273:A:C8	2.38	0.58
1:13:321:A:H62	1:13:328:C:H1'	1.69	0.58
1:13:1218:C:OP1	14:5I:12:ARG:NH2	2.37	0.58
1:13:1525:G:OP1	11:2I:120:ARG:NH2	2.37	0.58
15:6I:78:TYR:CZ	15:6I:82:ILE:HD11	2.39	0.58
20:BI:32:ALA:O	20:BI:36:LEU:HB2	2.04	0.58
22:1K:6:G:H1	22:1K:68:C:N4	2.02	0.58
26:1H:287:C:H2'	26:1H:288:C:H6	1.68	0.58
26:1H:989:G:OP2	51:L8:11:SER:OG	2.21	0.58
26:1H:2693:A:H2'	26:1H:2694:G:H8	1.69	0.58
26:1H:2801:A:H2'	26:1H:2802:G:H4'	1.85	0.58
30:21:203:LYS:HE3	30:21:204:ALA:HB2	1.86	0.58
35:58:46:VAL:HG11	35:58:48:MET:HG3	1.86	0.58
36:68:17:ARG:HA	36:68:17:ARG:NH1	2.14	0.58
36:68:101:PRO:HB3	36:68:120:GLU:HB3	1.86	0.58
41:B8:26:ASP:HB3	41:B8:120:ARG:HH22	1.68	0.58
44:E8:29:LEU:HD12	44:E8:29:LEU:O	2.04	0.58
1:1G:545:C:OP1	4:32:61:LYS:NZ	2.37	0.58
1:1G:1252:A:H61	1:1G:1285:A:H61	1.52	0.58
21:1B:9:ARG:HG3	21:1B:10:ARG:N	2.17	0.58
26:14:350:U:H2'	26:14:351:G:O4'	2.04	0.58
26:14:654(D):G:N2	26:14:654(Q):C:H42	2.01	0.58
26:14:686:G:H5"	54:L5:11:LYS:NZ	2.18	0.58
26:14:851:U:OP1	51:H5:49:LYS:HE2	2.04	0.58
26:14:2392:A:H1'	37:35:61:ARG:HH21	1.68	0.58
26:14:2474:C:H3'	26:14:2475:C:H5"	1.84	0.58
26:14:2667:C:N3	33:59:110:SER:OG	2.24	0.58
31:39:51:THR:HG23	31:39:92:PRO:HG2	1.85	0.58
1:13:474:G:H2'	1:13:475:G:C8	2.38	0.57
1:13:565:U:H3'	1:13:566:G:H2'	1.86	0.57
1:13:581:G:N2	1:13:760:G:N7	2.51	0.57
1:13:624:C:O3'	16:7I:10:GLY:HA2	2.04	0.57
1:13:859:A:H2'	1:13:860:A:H8	1.68	0.57
5:4E:15:ARG:NH2	25:4K:25:A:OP2	2.35	0.57
5:4E:126:ARG:HG3	5:4E:126:ARG:HH11	1.66	0.57
9:8E:49:PRO:O	9:8E:53:VAL:HB	2.03	0.57
18:9I:70:ILE:O	18:9I:74:ARG:HG3	2.03	0.57
19:AI:36:ARG:NH1	19:AI:52:TYR:O	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:299:A:C2	26:1H:322:A:C4	2.92	0.57
26:1H:1968:G:H5'	59:1H:4408:HOH:O	2.04	0.57
26:1H:2253:G:H2'	26:1H:2254:C:H6	1.67	0.57
33:51:154:PRO:HB3	33:51:163:TYR:CE2	2.39	0.57
44:E8:70:TYR:HD1	44:E8:70:TYR:H	1.51	0.57
45:F8:3:THR:HA	45:F8:6:ASP:OD2	2.03	0.57
1:1G:57:G:H2'	1:1G:58:C:C6	2.39	0.57
1:1G:433:C:H2'	1:1G:434:U:C6	2.39	0.57
7:62:150:ALA:O	11:2A:57:THR:HG21	2.03	0.57
9:82:17:VAL:HG21	9:82:80:GLY:HA3	1.85	0.57
9:82:99:LEU:HB3	9:82:101:PHE:CE1	2.38	0.57
16:7A:5:ARG:HE	16:7A:22:THR:HG23	1.68	0.57
17:8A:59:ILE:HG22	17:8A:71:PHE:HD2	1.69	0.57
26:14:39:C:O2	31:39:46:ARG:NH2	2.37	0.57
26:14:132:G:H1	26:14:147:U:H3	1.50	0.57
26:14:663:G:O3'	37:35:18:ARG:NH2	2.23	0.57
26:14:820:A:N1	59:14:3965:HOH:O	2.33	0.57
26:14:861:A:C2	26:14:917:A:C4	2.92	0.57
26:14:1116:C:H2'	26:14:1117:G:H8	1.69	0.57
26:14:1774:C:OP1	59:14:3458:HOH:O	2.17	0.57
26:14:2650:U:H2'	26:14:2651:C:C6	2.39	0.57
26:14:2809:A:OP2	26:14:2891:G:N1	2.31	0.57
31:39:46:ARG:HG2	31:39:46:ARG:NH1	2.19	0.57
1:13:55:A:H2	34:69:82:ARG:HG2	1.70	0.57
1:13:606:G:H1	1:13:631:G:H5"	1.69	0.57
1:13:1003:G:N2	1:13:1004:A:O2'	2.37	0.57
1:13:1117:G:H5"	9:8E:104:ARG:CZ	2.33	0.57
1:13:1118:C:H1'	1:13:1179:A:C4	2.39	0.57
13:4I:66:LEU:HA	13:4I:70:LEU:HD12	1.86	0.57
22:1K:59:A:H8	22:1K:62:C:C4	2.22	0.57
26:1H:392:C:OP1	59:1H:3663:HOH:O	2.18	0.57
26:1H:806:C:H5"	26:1H:807:U:OP2	2.04	0.57
26:1H:1299:G:H3'	26:1H:1639:U:O4	2.04	0.57
26:1H:1988:C:H2'	26:1H:1989:G:C8	2.39	0.57
44:E8:37:ARG:HD3	44:E8:38:TYR:HE1	1.68	0.57
47:H8:75:ASN:O	47:H8:84:GLU:N	2.33	0.57
1:1G:636:U:H2'	1:1G:637:G:C8	2.39	0.57
1:1G:664:G:P	18:9A:64:ARG:HH21	2.27	0.57
1:1G:1349:A:H2'	1:1G:1350:A:C8	2.38	0.57
10:1A:12:ASP:HB3	10:1A:15:THR:OG1	2.04	0.57
26:14:2290:G:O6	26:14:2342:C:N4	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2402:C:H5	26:14:2415:G:H22	1.51	0.57
26:14:2516:G:C6	26:14:2517:C:N4	2.72	0.57
26:14:2696:U:H2'	26:14:2697:G:C8	2.40	0.57
26:14:2810:A:N6	26:14:2891:G:O2'	2.37	0.57
27:1J:16:G:H2'	27:1J:17:C:C6	2.39	0.57
27:1J:70:C:H2'	27:1J:71:C:O4'	2.04	0.57
31:39:18:ARG:HH21	31:39:20:LEU:HD23	1.67	0.57
31:39:65:TRP:CZ3	31:39:72:ARG:HB2	2.39	0.57
37:35:14:LYS:O	37:35:16:ARG:N	2.37	0.57
42:85:92:ARG:C	42:85:94:ASN:H	2.10	0.57
46:C5:81:LYS:HB2	46:C5:99:CYS:SG	2.43	0.57
1:13:690:G:H2'	1:13:691:G:O4'	2.03	0.57
1:13:1352:C:H2'	1:13:1353:G:C8	2.39	0.57
3:2E:34:LEU:HD11	14:5I:25:VAL:HG11	1.86	0.57
26:1H:1301:A:H2	26:1H:1626:G:H21	1.52	0.57
26:1H:1392:A:C6	26:1H:1393:A:N1	2.72	0.57
26:1H:1433:U:O2	26:1H:1561:G:C2	2.58	0.57
26:1H:2783:G:H2'	26:1H:2784:C:C6	2.40	0.57
32:41:65:GLY:HA2	52:M8:7:PRO:HG2	1.84	0.57
42:C8:34:LYS:NZ	42:C8:37:GLU:OE1	2.35	0.57
42:C8:92:ARG:NH1	43:D8:11:GLN:O	2.37	0.57
55:Q8:45:GLY:CA	55:Q8:46:ARG:C	2.77	0.57
1:1G:165:C:H2'	1:1G:166:G:C8	2.38	0.57
1:1G:234:C:H2'	1:1G:235:C:H6	1.69	0.57
1:1G:1355:G:H2'	1:1G:1356:G:H8	1.69	0.57
26:14:1427:A:H4'	26:14:1428:C:O5'	2.03	0.57
26:14:2210:G:P	26:14:2211:G:H22	2.26	0.57
26:14:2468:G:H22	26:14:2481:G:HO2'	1.50	0.57
37:35:124:LYS:HE2	37:35:143:GLY:O	2.04	0.57
39:55:14:SER:HA	39:55:17:ARG:HH12	1.66	0.57
46:C5:19:LYS:HG3	46:C5:20:TYR:N	2.19	0.57
52:I5:48:ARG:NH1	52:I5:51:ASP:HB3	2.20	0.57
1:13:24:U:H2'	1:13:25:C:C6	2.40	0.57
1:13:1399:C:H4'	1:13:1400:C:H5"	1.85	0.57
4:3E:85:LYS:HG3	4:3E:86:LYS:N	2.19	0.57
11:2I:108:ILE:O	18:9I:87:ARG:N	2.37	0.57
26:1H:589:C:H2'	26:1H:590:A:C8	2.38	0.57
26:1H:1159:U:P	51:L8:30:ARG:HH22	2.27	0.57
26:1H:1833:U:H2'	26:1H:1834:U:C6	2.36	0.57
39:98:78:LYS:O	39:98:83:ILE:HG13	2.04	0.57
41:B8:111:ARG:HD3	41:B8:111:ARG:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:D8:46:VAL:HG12	43:D8:47:VAL:H	1.69	0.57
52:M8:37:SER:OG	52:M8:42:PHE:HB3	2.04	0.57
55:Q8:57:ARG:HA	55:Q8:58:ILE:C	2.30	0.57
1:1G:1237:C:O2'	1:1G:1300:G:N2	2.36	0.57
1:1G:1243:C:O2	1:1G:1295:G:N2	2.37	0.57
16:7A:15:PRO:HD2	16:7A:42:ARG:HD3	1.85	0.57
26:14:1971:A:OP2	29:19:242:ARG:NH2	2.37	0.57
26:14:2111:C:N4	26:14:2147:G:H21	2.02	0.57
26:14:2327:A:H2'	26:14:2328:A:C8	2.40	0.57
38:45:138:ASP:N	38:45:138:ASP:OD1	2.37	0.57
48:E5:17:GLN:HB2	48:E5:19:LYS:HZ1	1.70	0.57
1:13:105:G:H2'	1:13:106:C:C6	2.39	0.57
1:13:545:C:OP2	4:3E:62:GLN:NE2	2.37	0.57
1:13:1226:C:H4'	19:AI:80:TYR:OH	2.05	0.57
26:1H:303:U:H2'	26:1H:304:G:H8	1.69	0.57
26:1H:455:C:N3	26:1H:473:G:H5'	2.19	0.57
26:1H:654(A):A:H2	26:1H:654(T):A:N1	2.02	0.57
26:1H:1050:A:C8	26:1H:2751:G:C5	2.93	0.57
26:1H:2058:A:H5"	26:1H:2059:A:OP2	2.03	0.57
26:1H:2179:C:H2'	26:1H:2180:U:C6	2.40	0.57
26:1H:2773:C:OP1	30:21:164:ARG:NH1	2.37	0.57
38:88:3:MET:HG2	38:88:4:PRO:O	2.03	0.57
1:1G:1258:G:H2'	1:1G:1259:C:H6	1.68	0.57
1:1G:1330:U:H5'	13:4A:24:GLY:H	1.69	0.57
2:12:179:LYS:HA	8:72:72:PRO:HG3	1.86	0.57
4:32:8:VAL:O	4:32:11:LEU:N	2.28	0.57
11:2A:48:ILE:HD11	11:2A:64:ALA:HA	1.84	0.57
26:14:1588:C:H5'	26:14:1589:C:OP2	2.03	0.57
26:14:1827:C:OP2	29:19:222:ARG:NH1	2.37	0.57
26:14:2303:G:H1	26:14:2313:C:N4	2.01	0.57
29:19:246:PRO:HD2	29:19:255:LYS:HD3	1.86	0.57
31:39:30:PRO:O	31:39:33:LEU:N	2.37	0.57
35:15:95:PRO:O	35:15:98:VAL:HG22	2.04	0.57
52:I5:13:ARG:HA	52:I5:22:ILE:HB	1.86	0.57
1:13:323:U:H4'	20:BI:22:ARG:HB3	1.86	0.57
1:13:405:U:O4	4:3E:2:GLY:N	2.37	0.57
1:13:686:U:O4	1:13:703:G:H1'	2.04	0.57
1:13:1129:C:N3	1:13:1143:G:N2	2.53	0.57
2:1E:24:TRP:CZ3	2:1E:26:PRO:HA	2.40	0.57
11:2I:67:ASP:O	11:2I:71:LYS:HG3	2.04	0.57
26:1H:1292:U:H2'	26:1H:1293:C:C6	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2788:C:P	30:21:61:ARG:HH22	2.27	0.57
27:16:13:A:N1	27:16:69:G:O2'	2.37	0.57
28:71:58:VAL:HG13	28:71:199:HIS:CD2	2.39	0.57
35:58:59:LYS:O	35:58:61:ARG:NH1	2.37	0.57
38:88:30:GLY:HA3	38:88:107:ALA:HB2	1.85	0.57
55:Q8:32:LEU:HG	55:Q8:33:ASN:H	1.69	0.57
1:1G:555:C:H2'	1:1G:556:C:C6	2.39	0.57
1:1G:589:C:H42	1:1G:650:G:H1	1.50	0.57
2:12:53:ARG:HH12	2:12:199:TYR:HA	1.69	0.57
5:42:127:ASN:ND2	5:42:130:ASN:OD1	2.36	0.57
26:14:192:C:O2'	26:14:802:A:N3	2.36	0.57
26:14:511:U:C5	26:14:512:G:C4	2.92	0.57
26:14:1607:C:N4	26:14:1622:G:OP2	2.37	0.57
26:14:2378:A:O2'	40:65:21:THR:HG21	2.04	0.57
26:14:2415:G:O3'	37:35:66:GLY:HA3	2.05	0.57
26:14:2846:G:N7	59:14:3536:HOH:O	2.32	0.57
32:49:43:LEU:HD12	32:49:45:GLU:CD	2.30	0.57
47:D5:53:ILE:HG22	47:D5:71:VAL:HG13	1.86	0.57
1:13:38:G:C2	1:13:397:A:C2	2.93	0.57
2:1E:12:GLU:HA	2:1E:16:HIS:CD2	2.39	0.57
26:1H:1400:G:H2'	26:1H:1401:G:C8	2.39	0.57
26:1H:1658:C:H2'	26:1H:1659:U:C6	2.40	0.57
26:1H:1759:A:H4'	26:1H:2715:C:H1'	1.86	0.57
26:1H:2061:G:P	59:1H:3531:HOH:O	2.62	0.57
55:Q8:53:PRO:HB3	55:Q8:56:GLU:HG3	1.85	0.57
1:1G:56:U:H2'	1:1G:57:G:H8	1.67	0.57
1:1G:195:A:N6	1:1G:196:A:N1	2.52	0.57
1:1G:222:U:H2'	1:1G:223:U:C6	2.39	0.57
1:1G:1006:C:H2'	1:1G:1007:C:C6	2.39	0.57
2:12:166:ASP:HB2	2:12:205:ASP:OD1	2.04	0.57
26:14:1839:G:C8	26:14:1927:A:H1'	2.39	0.57
26:14:2054:A:H5"	26:14:2055:C:O5'	2.04	0.57
29:19:253:GLN:HB3	29:19:255:LYS:NZ	2.18	0.57
32:49:60:LEU:O	32:49:64:THR:HG22	2.05	0.57
34:69:58:LEU:O	34:69:62:LYS:N	2.37	0.57
37:35:64:LYS:CB	55:M5:30:ARG:HH22	2.11	0.57
39:55:45:ARG:HA	39:55:95:THR:HG21	1.87	0.57
44:A5:13:SER:HB3	44:A5:16:LYS:HD2	1.86	0.57
1:13:403:C:OP1	4:3E:137:SER:OG	2.20	0.57
1:13:592:G:H2'	1:13:593:G:C8	2.38	0.57
1:13:974:A:OP2	14:5I:41:ARG:NH1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:6I:18:PHE:CE1	15:6I:21:ASP:HB2	2.40	0.57
19:AI:51:VAL:O	19:AI:57:HIS:HA	2.04	0.57
26:1H:662:G:P	37:78:15:ARG:HE	2.27	0.57
26:1H:1416:G:O2'	26:1H:1417:C:O5'	2.21	0.57
26:1H:1417:C:N4	26:1H:1581:G:H1	2.02	0.57
26:1H:1899:G:N2	26:1H:1902:C:H5	2.03	0.57
26:1H:1899:G:N2	26:1H:1902:C:H41	2.01	0.57
26:1H:2467:C:H2'	26:1H:2468:G:H5'	1.85	0.57
28:71:66:HIS:NE2	28:71:187:ASP:HB2	2.19	0.57
33:51:122:THR:HB	33:51:134:SER:HB2	1.85	0.57
1:1G:660:G:O6	1:1G:745:C:N4	2.37	0.57
1:1G:861:G:H2'	1:1G:862:C:C6	2.40	0.57
1:1G:868:C:H2'	1:1G:869:G:O4'	2.05	0.57
1:1G:1218:C:OP2	14:5A:9:LYS:NZ	2.25	0.57
2:12:149:LEU:HD23	2:12:152:PHE:HB3	1.86	0.57
4:32:13:ARG:O	4:32:15:GLU:N	2.33	0.57
15:6A:28:GLN:O	15:6A:32:LEU:HG	2.05	0.57
26:14:27:G:N2	26:14:512:G:H1'	2.19	0.57
26:14:1945:G:H2'	26:14:1946:U:H6	1.69	0.57
26:14:2228:G:OP2	29:19:263:ARG:NH2	2.36	0.57
27:1J:88:C:H4'	27:1J:89:G:OP1	2.03	0.57
46:C5:23:ARG:CB	46:C5:23:ARG:HH11	2.18	0.57
49:F5:3:LYS:H	49:F5:61:ARG:HH12	1.52	0.57
49:F5:92:LYS:O	49:F5:95:LEU:N	2.27	0.57
1:13:464:G:C6	1:13:466:C:H5'	2.40	0.57
1:13:684:A:O2'	11:2I:38:ASN:HB3	2.04	0.57
1:13:954:G:H21	1:13:1227:A:N6	2.03	0.57
2:1E:42:ILE:HD11	2:1E:202:PRO:HB2	1.86	0.57
3:2E:20:SER:OG	3:2E:40:ARG:NH2	2.29	0.57
12:3I:66:VAL:HG21	12:3I:98:TYR:CE1	2.39	0.57
18:9I:19:LYS:HG3	18:9I:20:ALA:H	1.70	0.57
27:16:91:C:H5"	47:H8:79:ARG:HH22	1.69	0.57
55:Q8:34:TRP:C	55:Q8:34:TRP:CD1	2.83	0.57
1:1G:1224:G:N1	1:1G:1322:C:O2'	2.37	0.57
1:1G:1261:A:H61	1:1G:1274:G:H1'	1.70	0.57
2:12:92:TYR:CE1	2:12:151:GLY:HA3	2.40	0.57
6:52:97:PHE:HB2	18:9A:32:ARG:HD3	1.84	0.57
26:14:483:A:H1'	46:C5:60:PHE:CE1	2.40	0.57
26:14:993:G:N3	43:95:89:GLN:NE2	2.46	0.57
26:14:2656:U:H3	26:14:2665:A:H2	1.52	0.57
32:49:125:PHE:HB3	32:49:166:ASP:OD2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:43:ASN:HB3	46:C5:64:GLU:HA	1.85	0.57
47:D5:126:VAL:HG12	47:D5:163:LEU:HA	1.86	0.57
1:13:468:A:H4'	16:7I:80:PHE:O	2.04	0.57
1:13:1100:C:O2'	1:13:1102:A:OP1	2.23	0.57
1:13:1412:C:H42	1:13:1488:G:H1	1.52	0.57
4:3E:30:LYS:H	4:3E:34:GLU:HB2	1.70	0.57
15:6I:6:GLU:HA	15:6I:9:GLN:HB2	1.87	0.57
26:1H:1434:A:H61	26:1H:1558:A:H62	1.53	0.57
26:1H:2781:A:C5'	26:1H:2782:G:H5'	2.23	0.57
28:71:212:VAL:O	28:71:224:ILE:HG13	2.05	0.57
33:51:12:PRO:HG2	33:51:13:LYS:HE2	1.87	0.57
1:1G:438:G:H4'	4:32:123:HIS:CD2	2.36	0.57
1:1G:546:G:OP2	4:32:72:GLU:HB3	2.05	0.57
1:1G:1157:A:C8	1:1G:1158:C:C5	2.93	0.57
7:62:49:ILE:HG22	7:62:53:LYS:HG3	1.87	0.57
26:14:123:G:O6	59:14:3928:HOH:O	2.16	0.57
26:14:2400:G:H3'	26:14:2401:U:C6	2.38	0.57
43:95:5:VAL:HB	43:95:37:VAL:CG1	2.35	0.57
43:95:22:VAL:HG22	43:95:23:GLU:H	1.70	0.57
45:B5:63:LYS:HZ3	45:B5:63:LYS:H	1.52	0.57
1:13:1004:A:H1'	1:13:1036:G:N2	2.20	0.56
1:13:1500:A:P	59:13:1804:HOH:O	2.61	0.56
3:2E:22:TRP:HZ3	3:2E:24:ALA:HB2	1.70	0.56
5:4E:51:VAL:O	5:4E:55:VAL:HG23	2.05	0.56
17:8I:45:HIS:HB2	17:8I:65:ILE:HD13	1.86	0.56
26:1H:604:G:C6	26:1H:625:G:C2	2.93	0.56
26:1H:1557:C:OP2	26:1H:1558:A:O2'	2.17	0.56
26:1H:2685:G:H2'	26:1H:2686:G:H5"	1.87	0.56
27:16:79:C:O5'	27:16:79:C:H6	1.87	0.56
27:16:112:G:H2'	27:16:113:C:H6	1.70	0.56
29:11:12:SER:O	29:11:16:MET:HB2	2.05	0.56
30:21:16:ARG:HG3	30:21:16:ARG:O	2.05	0.56
35:58:127:ASP:OD1	35:58:127:ASP:N	2.37	0.56
48:I8:51:VAL:N	48:I8:62:LEU:HD12	2.20	0.56
55:Q8:5:LYS:H	55:Q8:59:LYS:HZ2	1.53	0.56
1:1G:1002:G:H22	1:1G:1038:C:N4	2.03	0.56
1:1G:1157:A:H8	1:1G:1158:C:H5	1.52	0.56
26:14:1341:U:OP1	26:14:1397:U:N3	2.35	0.56
26:14:2280:G:O2'	26:14:2388:A:N1	2.33	0.56
26:14:2689:U:P	26:14:2719:G:H22	2.28	0.56
30:29:33:VAL:HG12	30:29:89:ASP:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:65:14:VAL:O	40:65:18:ILE:HD13	2.05	0.56
50:G5:31:GLU:HB2	50:G5:53:LEU:HD11	1.86	0.56
1:13:74:C:N4	1:13:96:G:H1	1.99	0.56
1:13:148:G:H1	1:13:174:C:H42	1.52	0.56
4:3E:105:VAL:HG21	4:3E:126:ILE:HG13	1.87	0.56
6:5E:70:ASP:OD1	6:5E:70:ASP:N	2.37	0.56
8:7E:46:LYS:HE2	8:7E:63:LEU:O	2.04	0.56
13:4I:80:ARG:NH1	19:AI:65:ASN:O	2.38	0.56
17:8I:62:SER:HB3	17:8I:72:ARG:HE	1.70	0.56
26:1H:654(D):G:H22	26:1H:654(Q):C:H42	1.53	0.56
26:1H:1226:G:OP1	43:D8:69:LYS:NZ	2.29	0.56
26:1H:2296:U:P	40:A8:9:ARG:HH12	2.28	0.56
26:1H:2453:A:H2'	26:1H:2454:G:O4'	2.05	0.56
26:1H:2849:U:H1'	26:1H:2866:U:O2	2.05	0.56
28:71:53:ARG:HG3	28:71:56:GLN:HE21	1.70	0.56
45:F8:3:THR:OG1	45:F8:4:ALA:HA	2.05	0.56
47:H8:72:ARG:NH2	47:H8:97:GLU:O	2.33	0.56
55:Q8:32:LEU:HG	55:Q8:33:ASN:N	2.20	0.56
1:1G:569:C:O2	1:1G:881:G:N2	2.29	0.56
1:1G:1349:A:H2'	1:1G:1350:A:H8	1.70	0.56
4:32:64:LEU:HB2	4:32:198:VAL:HG11	1.87	0.56
5:42:145:LYS:O	5:42:149:GLU:N	2.36	0.56
11:2A:57:THR:HG22	11:2A:59:TYR:H	1.70	0.56
11:2A:87:THR:O	11:2A:87:THR:OG1	2.23	0.56
26:14:26:G:OP1	44:A5:80:PRO:HB3	2.04	0.56
26:14:134:C:H2'	26:14:135:G:C8	2.40	0.56
26:14:142:G:H5"	26:14:1598:C:O2'	2.04	0.56
26:14:363(E):U:H5'	26:14:363(F):A:OP2	2.05	0.56
26:14:1225:C:H4'	43:95:85:LYS:HG2	1.87	0.56
26:14:2283:C:C2	26:14:2389:G:C2	2.93	0.56
38:45:25:ASP:HB3	38:45:102:VAL:CG2	2.32	0.56
39:55:74:LYS:HE2	39:55:77:ARG:HH21	1.70	0.56
47:D5:79:ARG:HD2	47:D5:80:ARG:HH11	1.70	0.56
55:M5:40:GLU:N	55:M5:43:GLN:HB2	2.18	0.56
1:13:52:G:H2'	1:13:53:A:H8	1.70	0.56
1:13:377:G:H5'	16:7I:5:ARG:HH12	1.70	0.56
1:13:1157:A:N6	1:13:1178:G:N3	2.52	0.56
2:1E:17:PHE:HD1	2:1E:17:PHE:H	1.52	0.56
4:3E:30:LYS:CB	4:3E:35:ARG:HE	2.18	0.56
4:3E:167:GLY:HA2	29:19:135:PHE:HE1	1.70	0.56
10:1I:48:THR:HA	10:1I:62:HIS:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:64:A:H1'	45:F8:66:LEU:HB2	1.86	0.56
26:1H:71:A:H4'	26:1H:72:U:H5"	1.86	0.56
26:1H:353:G:H2'	26:1H:354:G:C8	2.40	0.56
26:1H:1407:C:H2'	26:1H:1408:C:C6	2.39	0.56
26:1H:1693:U:H1'	29:11:14:ARG:NH2	2.20	0.56
26:1H:1889:A:N1	26:1H:2234:G:H1'	2.21	0.56
26:1H:2579:C:H2'	26:1H:2580:U:O4'	2.06	0.56
27:16:3:C:H2'	27:16:4:C:C6	2.40	0.56
28:71:212:VAL:HB	28:71:224:ILE:HD11	1.86	0.56
30:21:174:ASP:HB3	30:21:183:LEU:HD23	1.87	0.56
31:31:64:ILE:HG13	31:31:65:TRP:CD1	2.40	0.56
32:41:28:VAL:O	32:41:31:VAL:HG13	2.05	0.56
33:51:128:PRO:HG2	33:51:129:THR:HG22	1.86	0.56
38:88:135:ASP:HB2	38:88:137:TYR:HB2	1.86	0.56
40:A8:88:ASP:O	40:A8:90:GLY:N	2.38	0.56
46:G8:15:VAL:HG21	46:G8:42:VAL:HG21	1.87	0.56
55:Q8:57:ARG:HB2	55:Q8:59:LYS:HE3	1.87	0.56
1:1G:664:G:OP1	18:9A:64:ARG:NH2	2.33	0.56
1:1G:766:A:H2'	1:1G:767:A:O4'	2.06	0.56
1:1G:793:U:O2	1:1G:1516:G:H4'	2.03	0.56
1:1G:940:C:H2'	1:1G:941:G:H8	1.69	0.56
1:1G:1387:G:H2'	1:1G:1388:C:C6	2.41	0.56
3:22:83:ARG:HA	3:22:86:VAL:HG22	1.87	0.56
26:14:161:U:H5'	26:14:171:G:H21	1.69	0.56
26:14:492:A:H2'	26:14:493:G:O4'	2.05	0.56
26:14:1161:C:O2'	43:95:8:GLY:HA2	2.06	0.56
26:14:1259:G:H2'	26:14:1260:G:C8	2.40	0.56
26:14:1341:U:C5	26:14:1395:A:H2	2.24	0.56
26:14:1832:C:N4	26:14:1833:U:C4	2.74	0.56
26:14:2105:C:N4	26:14:2184:G:H1	2.01	0.56
26:14:2666:C:H2'	26:14:2667:C:H5'	1.86	0.56
26:14:2681:C:H5	26:14:2725:A:N6	1.98	0.56
31:39:37:VAL:HA	31:39:40:GLN:HB3	1.86	0.56
46:C5:47:LYS:HG3	46:C5:60:PHE:CZ	2.40	0.56
26:1H:475:U:C4	26:1H:481:G:O6	2.58	0.56
26:1H:667:U:O2	55:Q8:2:PRO:HD2	2.06	0.56
26:1H:878:A:N6	26:1H:899:A:HO2'	2.03	0.56
26:1H:1387:C:O2	26:1H:1388:G:C8	2.58	0.56
26:1H:1818:U:O4	29:11:154:LYS:HD3	2.06	0.56
26:1H:2064:C:H2'	26:1H:2065:C:C6	2.40	0.56
26:1H:2294:C:H2'	26:1H:2295:C:H6	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:98:96:ARG:HE	39:98:117:VAL:HG23	1.69	0.56
1:1G:223:U:H2'	1:1G:224:C:C6	2.41	0.56
2:12:75:LYS:HA	2:12:78:GLN:CB	2.31	0.56
4:32:113:SER:O	4:32:117:ALA:N	2.38	0.56
12:3A:111:LYS:H	12:3A:111:LYS:HD2	1.70	0.56
26:14:986:C:HO2'	26:14:1001:A:HO2'	1.39	0.56
27:1J:44:G:H1'	27:1J:47:C:N4	2.20	0.56
30:29:16:ARG:O	30:29:19:ARG:HG3	2.06	0.56
33:59:6:ARG:HB2	33:59:66:GLY:HA2	1.88	0.56
41:75:107:ASP:OD2	41:75:109:GLU:HB2	2.05	0.56
1:13:657:G:C2	1:13:658:G:C8	2.93	0.56
7:6E:111:ARG:HB3	7:6E:111:ARG:HH11	1.70	0.56
9:8E:31:GLN:HG2	9:8E:35:GLU:HG2	1.86	0.56
15:6I:8:LYS:HG2	15:6I:12:ILE:HD11	1.87	0.56
18:9I:36:ASN:OD1	18:9I:36:ASN:N	2.37	0.56
26:1H:141:A:C8	26:1H:1408:C:H1'	2.39	0.56
26:1H:270(N):G:OP2	34:61:57:ARG:NH2	2.38	0.56
26:1H:443:A:H1'	26:1H:1201:C:O4'	2.06	0.56
26:1H:600:G:N2	26:1H:605:C:O3'	2.39	0.56
26:1H:878:A:N6	26:1H:899:A:O2'	2.37	0.56
26:1H:1613:G:O2'	54:P8:3:ARG:NE	2.38	0.56
26:1H:1678:G:N2	26:1H:1989:G:N2	2.54	0.56
26:1H:1919:A:H5"	26:1H:1920:C:OP2	2.05	0.56
26:1H:2438:U:O2'	26:1H:2440:C:OP1	2.18	0.56
31:31:150:GLY:HA2	31:31:172:TRP:CD2	2.40	0.56
36:68:68:GLU:OE2	36:68:78:ARG:NH1	2.38	0.56
47:H8:97:GLU:HB3	47:H8:125:LEU:HD11	1.85	0.56
55:Q8:6:THR:H	55:Q8:59:LYS:HZ2	1.53	0.56
1:1G:142:G:H2'	1:1G:143:A:H8	1.69	0.56
1:1G:1003:G:N2	1:1G:1037:C:O2	2.32	0.56
1:1G:1132:C:O2'	1:1G:1133:G:H5'	2.04	0.56
1:1G:1300:G:O2'	1:1G:1301:U:O5'	2.21	0.56
26:14:111:A:H4'	50:G5:69:ARG:NH2	2.21	0.56
26:14:558:G:H5'	35:15:112:LEU:HD12	1.88	0.56
26:14:1181:C:H2'	26:14:1182:A:O4'	2.06	0.56
26:14:1329:U:H5"	26:14:1330:C:H5	1.70	0.56
26:14:2636:U:OP1	30:29:80:GLU:HB2	2.05	0.56
29:19:11:PRO:C	29:19:13:ARG:H	2.13	0.56
31:39:188:ARG:HA	37:35:3:LEU:HD11	1.87	0.56
38:45:138:ASP:HB3	38:45:141:GLN:HG2	1.87	0.56
40:65:67:ARG:CZ	40:65:67:ARG:HB2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:65:85:VAL:HG22	40:65:110:LEU:HG	1.88	0.56
3:2E:77:ILE:HA	3:2E:84:ILE:HD12	1.87	0.56
8:7E:69:ARG:NH2	8:7E:73:ASP:O	2.39	0.56
11:2I:69:ALA:HB1	11:2I:73:MET:HE2	1.87	0.56
13:4I:66:LEU:C	13:4I:70:LEU:HB2	2.31	0.56
22:1K:59:A:H4'	22:1K:60:A:OP1	2.06	0.56
22:1K:75:C:OP2	22:1K:75:C:H4'	2.04	0.56
26:1H:389:G:O5'	26:1H:389:G:H8	1.88	0.56
26:1H:1290:C:H2'	26:1H:1291:C:H6	1.69	0.56
26:1H:2005:A:H5"	59:1H:4360:HOH:O	2.05	0.56
26:1H:2127:G:N1	26:1H:2162:G:H1'	2.20	0.56
38:88:103:MET:HE1	38:88:127:ILE:HD11	1.87	0.56
42:C8:40:PHE:HB3	43:D8:75:PHE:CD2	2.41	0.56
53:N8:33:CYS:SG	53:N8:40:LYS:HD3	2.46	0.56
1:1G:458:C:H42	1:1G:474:G:H1	1.54	0.56
1:1G:667:G:H4'	15:6A:51:HIS:ND1	2.21	0.56
2:12:155:LEU:HD12	2:12:157:ARG:H	1.70	0.56
4:32:150:GLU:C	4:32:152:SER:H	2.13	0.56
9:82:9:ARG:O	9:82:104:ARG:NE	2.35	0.56
26:14:276:A:N3	26:14:277:C:N4	2.54	0.56
26:14:975:G:C5	26:14:976:C:C5	2.94	0.56
26:14:1967:C:H2'	26:14:1968:G:O4'	2.04	0.56
26:14:2875:C:OP1	41:75:3:ARG:NH1	2.38	0.56
30:29:79:ARG:HH11	30:29:79:ARG:HG2	1.70	0.56
34:69:40:THR:O	34:69:44:LEU:N	2.38	0.56
37:35:80:TYR:CD2	37:35:111:ARG:HB3	2.40	0.56
52:I5:37:SER:HB3	52:I5:39:CYS:H	1.70	0.56
1:13:337:C:H2'	1:13:338:A:C8	2.41	0.56
4:3E:173:TRP:CD2	4:3E:189:PRO:HG3	2.41	0.56
8:7E:87:SER:HB2	8:7E:93:VAL:CB	2.34	0.56
13:4I:97:PRO:HA	13:4I:110:ARG:HD3	1.87	0.56
15:6I:24:SER:HB2	15:6I:27:VAL:HG23	1.86	0.56
26:1H:67:U:H3	26:1H:74:A:H2	1.52	0.56
26:1H:607:U:N3	26:1H:621:A:C2	2.62	0.56
26:1H:624:C:OP1	59:1H:4216:HOH:O	2.18	0.56
26:1H:1407:C:H2'	26:1H:1408:C:H6	1.70	0.56
38:88:52:VAL:HA	38:88:55:VAL:HG13	1.88	0.56
1:1G:345:C:O3'	41:75:41:ARG:NH2	2.38	0.56
5:42:73:ASN:O	5:42:73:ASN:ND2	2.29	0.56
7:62:95:ARG:O	7:62:99:LEU:HB2	2.05	0.56
26:14:86:C:O2'	26:14:104:U:O2'	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:960:A:H61	38:45:82:ARG:HH21	1.54	0.56
26:14:1040:C:H2'	26:14:1041:C:C6	2.40	0.56
27:1J:50:G:OP1	40:65:63:THR:HG23	2.04	0.56
29:19:124:PRO:HG2	29:19:129:ASN:ND2	2.20	0.56
30:29:57:LYS:NZ	30:29:57:LYS:H	2.03	0.56
37:35:50:ARG:HB2	37:35:50:ARG:HH11	1.69	0.56
40:65:64:GLU:O	40:65:68:GLN:HG3	2.06	0.56
51:H5:55:ARG:HB3	51:H5:55:ARG:CZ	2.35	0.56
1:13:160:A:H1'	1:13:344:A:C8	2.41	0.56
1:13:186(F):C:H2'	1:13:187:C:O4'	2.06	0.56
1:13:580:U:OP1	15:6I:54:ARG:NH2	2.37	0.56
1:13:825:G:O4'	8:7E:2:LEU:HD21	2.05	0.56
1:13:939:G:H5"	7:6E:102:ARG:NH2	2.21	0.56
1:13:986:A:H2'	1:13:987:G:O4'	2.06	0.56
26:1H:705:A:C8	26:1H:727:A:C2	2.94	0.56
28:71:227:HIS:CD2	28:71:227:HIS:N	2.74	0.56
47:H8:45:ASP:OD2	47:H8:49:ARG:NH1	2.39	0.56
51:L8:5:LYS:HD2	51:L8:34:GLU:OE1	2.04	0.56
1:1G:171:A:H2'	1:1G:172:A:C8	2.40	0.56
1:1G:689:C:OP1	11:2A:44:SER:OG	2.23	0.56
1:1G:749:C:O2'	1:1G:750:G:H5'	2.05	0.56
26:14:112:U:H5"	26:14:113:G:OP2	2.05	0.56
26:14:2239:G:P	59:14:3404:HOH:O	2.61	0.56
40:65:109:GLY:O	40:65:110:LEU:HD22	2.06	0.56
1:13:36:C:OP1	12:3I:123:LYS:NZ	2.39	0.56
1:13:141:A:H2'	1:13:142:G:H8	1.71	0.56
1:13:533:A:O2'	1:13:535:A:OP2	2.22	0.56
1:13:812:C:O2	59:13:1807:HOH:O	2.17	0.56
4:3E:188:LEU:HD23	4:3E:189:PRO:HD2	1.88	0.56
26:1H:639:U:H3	26:1H:649:G:H1	1.52	0.56
26:1H:778:G:N7	59:1H:4014:HOH:O	2.33	0.56
32:41:107:LEU:HD11	32:41:178:PHE:CE1	2.41	0.56
36:68:7:TYR:CE1	36:68:20:MET:HE3	2.41	0.56
1:1G:142:G:H2'	1:1G:143:A:C8	2.41	0.56
1:1G:186(D):C:H2'	1:1G:186(E):C:C6	2.40	0.56
3:22:18:TRP:HE1	14:5A:55:GLY:N	2.03	0.56
3:22:67:THR:HG23	3:22:102:ASN:HB2	1.88	0.56
4:32:59:ARG:HA	4:32:62:GLN:HB2	1.86	0.56
16:7A:39:TYR:HB2	16:7A:49:LEU:HD13	1.88	0.56
26:14:321:G:OP1	31:39:135:LYS:NZ	2.37	0.56
26:14:654(V):A:H2'	26:14:655:A:C8	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:774:A:HO2'	26:14:775:G:P	2.29	0.56
26:14:1354:A:OP2	59:14:3448:HOH:O	2.18	0.56
26:14:1778:U:H2'	26:14:1784:A:H62	1.70	0.56
29:19:70:TRP:CH2	29:19:150:LYS:HA	2.41	0.56
35:15:34:LEU:HD21	35:15:120:LEU:HD13	1.88	0.56
44:A5:110:LYS:HG3	44:A5:111:HIS:CG	2.40	0.56
46:C5:29:GLU:OE1	46:C5:29:GLU:N	2.38	0.56
47:D5:44:PHE:CE1	47:D5:48:PHE:HB2	2.41	0.56
53:J5:16:ARG:HG3	53:J5:17:ASP:N	2.21	0.56
1:13:618:C:H5"	1:13:619:U:H5"	1.88	0.56
1:13:1317:C:C6	14:5I:16:PHE:HD2	2.24	0.56
2:1E:71:VAL:HA	2:1E:93:VAL:O	2.06	0.56
4:3E:74:GLN:O	4:3E:78:LEU:HD13	2.05	0.56
7:6E:65:ALA:HB2	7:6E:128:ALA:HB2	1.88	0.56
12:3I:5:PRO:HG2	12:3I:10:LEU:HD21	1.87	0.56
13:4I:15:VAL:O	13:4I:19:LEU:HD22	2.06	0.56
14:5I:9:LYS:HD2	14:5I:12:ARG:HH21	1.71	0.56
26:1H:1167:U:H2'	26:1H:1168:G:C8	2.41	0.56
26:1H:1503:U:H2'	26:1H:1504:C:H6	1.70	0.56
26:1H:2756:U:O2'	59:1H:4322:HOH:O	2.18	0.56
31:31:32:LEU:HD21	31:31:105:VAL:HG13	1.88	0.56
31:31:114:VAL:HG21	31:31:202:PHE:CZ	2.41	0.56
32:41:115:ARG:NH1	32:41:115:ARG:HB3	2.20	0.56
33:51:144:VAL:O	33:51:148:ILE:HG12	2.05	0.56
34:61:21:VAL:HG22	34:61:22:LYS:H	1.70	0.56
44:E8:70:TYR:O	44:E8:107:LEU:HD12	2.05	0.56
47:H8:93:ASP:HA	47:H8:130:PRO:HG2	1.88	0.56
1:1G:695:A:OP2	11:2A:53:SER:OG	2.24	0.56
1:1G:913:A:OP2	1:1G:913:A:H8	1.88	0.56
1:1G:1240:U:O2'	1:1G:1241:G:OP1	2.22	0.56
3:22:47:LEU:HG	3:22:68:VAL:HG11	1.88	0.56
16:7A:71:ARG:HB2	16:7A:71:ARG:HH11	1.71	0.56
26:14:1449:A:H5'	26:14:1449(A):G:OP2	2.05	0.56
26:14:1942:C:OP2	26:14:1943:U:O2'	2.16	0.56
26:14:2168:G:N2	26:14:2170:A:OP2	2.39	0.56
32:49:12:TYR:O	32:49:17:PRO:HD3	2.05	0.56
47:D5:60:GLU:HB2	47:D5:66:SER:OG	2.06	0.56
1:13:11:G:C5	1:13:12:U:C5	2.94	0.55
1:13:1327:C:P	21:1F:12:LYS:HZ3	2.29	0.55
2:1E:62:ALA:HB2	2:1E:222:ILE:HG23	1.88	0.55
4:3E:158:ILE:O	4:3E:162:LEU:N	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:4E:148:VAL:HA	5:4E:151:LEU:HD12	1.88	0.55
9:8E:10:ARG:NE	9:8E:105:ASP:OD2	2.38	0.55
19:AI:41:VAL:O	52:M8:63:TYR:OH	2.23	0.55
26:1H:382:G:H1	26:1H:392:C:H42	1.54	0.55
26:1H:972:G:OP2	26:1H:973:A:O2'	2.21	0.55
26:1H:2116:G:O6	26:1H:2172:U:N3	2.39	0.55
26:1H:2862:G:H2'	26:1H:2863:C:H6	1.71	0.55
27:16:15:A:H5'	27:16:16:G:H8	1.71	0.55
30:21:128:SER:OG	30:21:129:HIS:N	2.39	0.55
32:41:41:GLN:HG2	32:41:155:MET:HB3	1.87	0.55
36:68:117:LEU:HD23	36:68:117:LEU:N	2.22	0.55
44:E8:14:PRO:O	44:E8:18:ARG:HB2	2.06	0.55
44:E8:24:ILE:HA	44:E8:27:LYS:HD2	1.88	0.55
46:G8:55:TYR:N	46:G8:56:PRO:HD3	2.21	0.55
52:M8:24:THR:OG1	52:M8:25:TYR:N	2.23	0.55
1:1G:135:C:O2	16:7A:1:MET:HB3	2.06	0.55
1:1G:1002:G:H2'	1:1G:1003:G:C8	2.40	0.55
26:14:1266:G:O4'	44:A5:15:ARG:NH2	2.39	0.55
26:14:1418:G:H8	26:14:1418:G:O5'	1.89	0.55
26:14:2165:G:H2'	26:14:2166:G:H5'	1.88	0.55
26:14:2777:G:OP2	26:14:2781:A:O2'	2.16	0.55
27:1J:94:C:H2'	27:1J:95:U:C6	2.41	0.55
30:29:25:VAL:HG12	30:29:26:ILE:N	2.19	0.55
31:39:95:ARG:HB2	31:39:97:TYR:CE1	2.41	0.55
38:45:74:TYR:O	38:45:89:ASN:HB2	2.06	0.55
39:55:21:TYR:HB3	39:55:47:PHE:CD2	2.41	0.55
40:65:34:HIS:HD2	40:65:54:LEU:N	2.04	0.55
43:95:85:LYS:CB	43:95:87:HIS:H	2.18	0.55
47:D5:7:ALA:O	47:D5:8:TYR:CG	2.59	0.55
47:D5:158:PRO:HB2	47:D5:159:PRO:HD2	1.87	0.55
1:13:1305:G:O2'	1:13:1331:G:N2	2.39	0.55
2:1E:22:LYS:H	2:1E:40:HIS:CE1	2.24	0.55
6:5E:38:GLU:HB2	6:5E:64:GLN:HB3	1.89	0.55
8:7E:8:ASP:O	8:7E:12:ARG:HG3	2.06	0.55
12:3I:47:LYS:HB2	12:3I:48:PRO:HA	1.88	0.55
13:4I:3:ARG:HE	13:4I:9:ILE:HD11	1.71	0.55
15:6I:6:GLU:OE1	15:6I:7:GLU:N	2.40	0.55
19:AI:50:ALA:HA	19:AI:58:VAL:O	2.06	0.55
26:1H:742:G:H2'	26:1H:743:G:H8	1.71	0.55
26:1H:994:C:OP2	42:C8:54:LYS:NZ	2.38	0.55
26:1H:1024:G:H3'	26:1H:1025:G:H5"	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1171:G:N2	26:1H:1178:C:N3	2.46	0.55
26:1H:2885:C:N3	26:1H:2886:G:H1'	2.21	0.55
32:41:131:TYR:O	32:41:159:VAL:HG22	2.06	0.55
37:78:97:PRO:HA	37:78:100:LEU:HD23	1.88	0.55
39:98:52:ILE:O	39:98:55:ALA:N	2.36	0.55
42:C8:47:TYR:CD1	42:C8:47:TYR:C	2.84	0.55
50:K8:15:LYS:HD3	50:K8:67:LYS:HZ1	1.71	0.55
1:1G:1188:A:H5"	14:5A:58:LYS:HE3	1.87	0.55
3:22:11:ARG:NH2	3:22:182:ILE:HD11	2.21	0.55
13:4A:19:LEU:HB2	13:4A:25:ILE:HG21	1.88	0.55
16:7A:23:ASP:OD1	16:7A:25:ARG:HG3	2.07	0.55
26:14:1788:C:H2'	26:14:1789:A:H8	1.71	0.55
27:1J:2:C:O2	27:1J:118:G:N2	2.38	0.55
27:1J:4:C:H42	27:1J:116:G:H1	1.53	0.55
47:D5:128:VAL:HG22	47:D5:129:SER:H	1.70	0.55
51:H5:59:VAL:HG12	51:H5:60:GLU:H	1.72	0.55
1:13:31:G:O2'	1:13:48:C:N4	2.39	0.55
1:13:591:U:H2'	1:13:592:G:H8	1.70	0.55
4:3E:142:PRO:HA	4:3E:185:PHE:HD2	1.70	0.55
5:4E:54:ALA:HA	5:4E:57:LYS:HG2	1.87	0.55
19:AI:6:LYS:O	19:AI:7:LYS:NZ	2.37	0.55
26:1H:960:A:C8	26:1H:962:G:C8	2.94	0.55
26:1H:1525:G:H2'	26:1H:1526:G:C8	2.38	0.55
30:21:169:ASN:OD1	30:21:201:THR:HG21	2.06	0.55
32:41:33:ARG:O	32:41:162:THR:HG23	2.06	0.55
33:51:95:ARG:HB3	33:51:95:ARG:NH1	2.22	0.55
35:58:42:TRP:HA	35:58:48:MET:HE1	1.88	0.55
38:88:110:THR:HG23	38:88:113:GLN:OE1	2.06	0.55
40:A8:78:LEU:HD12	40:A8:108:GLY:HA3	1.87	0.55
47:H8:18:LEU:H	47:H8:18:LEU:HD12	1.71	0.55
1:1G:619:U:C5	4:32:135:LEU:HD11	2.41	0.55
2:12:178:ARG:HH21	8:72:68:ARG:HH22	1.54	0.55
26:14:661:C:H1'	37:35:12:ALA:HA	1.88	0.55
26:14:1638:C:H5"	26:14:2710:C:O2	2.06	0.55
26:14:1683:C:H2'	26:14:1684:C:C6	2.41	0.55
26:14:2402:C:O2'	26:14:2403:C:OP1	2.24	0.55
27:1J:103:U:HO2'	47:D5:29:TYR:HH	1.42	0.55
32:49:33:ARG:CZ	32:49:162:THR:HG21	2.36	0.55
1:13:280:C:H3'	1:13:281:G:H5'	1.88	0.55
1:13:451:A:C6	1:13:480:U:H2'	2.41	0.55
1:13:977:A:H1'	1:13:982:U:O4	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:101:LEU:O	4:3E:105:VAL:HB	2.07	0.55
24:3K:39:PSU:O2	24:3K:40:C:N4	2.40	0.55
26:1H:654(H):G:H2'	26:1H:654(H):G:N3	2.21	0.55
26:1H:1405:U:H2'	26:1H:1406:U:H6	1.72	0.55
26:1H:1797:C:H4'	29:11:257:LEU:O	2.05	0.55
26:1H:2120:G:H2'	26:1H:2121:G:C8	2.41	0.55
35:58:107:LEU:HD13	35:58:117:PHE:HB2	1.87	0.55
36:68:120:GLU:HG2	36:68:122:LEU:HG	1.89	0.55
43:D8:34:GLU:HG3	43:D8:56:SER:HB3	1.87	0.55
1:1G:865:A:H2	1:1G:918:A:H4'	1.71	0.55
3:22:190:ARG:H	3:22:190:ARG:HD2	1.71	0.55
4:32:148:VAL:O	4:32:152:SER:OG	2.16	0.55
14:5A:26:ARG:NH1	14:5A:47:LEU:HD21	2.21	0.55
26:14:172:C:H2'	26:14:173:G:C8	2.41	0.55
26:14:309:G:H4'	46:C5:18:GLY:HA3	1.88	0.55
26:14:1820:U:H4'	26:14:1821:A:OP2	2.06	0.55
27:1J:80:U:H2'	27:1J:81:G:N2	2.20	0.55
37:35:97:PRO:HG3	37:35:112:LEU:HD12	1.89	0.55
41:75:53:ARG:NH1	41:75:60:THR:HG23	2.22	0.55
42:85:88:ILE:HA	43:95:49:THR:O	2.06	0.55
1:13:186(E):C:N3	1:13:191(B):G:N2	2.45	0.55
1:13:474:G:H5"	16:7I:81:ARG:CZ	2.35	0.55
4:3E:114:ARG:HA	4:3E:117:ALA:HB3	1.89	0.55
26:1H:1178:C:H4'	26:1H:1179:C:OP1	2.05	0.55
26:1H:1394:U:C5	26:1H:1395:A:C5	2.94	0.55
26:1H:2028:U:H2'	26:1H:2029:G:O4'	2.05	0.55
26:1H:2155:G:H2'	26:1H:2156:G:H5'	1.89	0.55
26:1H:2475:C:H4'	26:1H:2476:A:OP1	2.06	0.55
26:1H:2865:U:H5"	26:1H:2866:U:OP2	2.06	0.55
28:71:53:ARG:HG3	28:71:56:GLN:NE2	2.22	0.55
45:F8:34:ALA:HA	45:F8:38:GLU:OE1	2.07	0.55
1:1G:607:A:H2'	1:1G:608:A:O4'	2.07	0.55
1:1G:718:G:H5'	11:2A:117:ASN:ND2	2.21	0.55
1:1G:977:A:H8	1:1G:982:U:O4	1.90	0.55
2:12:9:GLU:HB2	2:12:217:ARG:NH2	2.21	0.55
2:12:18:GLY:HA2	2:12:42:ILE:HG22	1.89	0.55
11:2A:86:GLY:H	11:2A:112:THR:HG23	1.70	0.55
12:3A:24:VAL:O	12:3A:26:ALA:N	2.40	0.55
13:4A:33:ALA:O	13:4A:37:THR:OG1	2.24	0.55
56:2L:29:C:H2'	56:2L:30:G:C8	2.41	0.55
26:14:817:C:H2'	26:14:818:G:O4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1047:G:H2'	26:14:1110:G:H1	1.72	0.55
27:1J:113:C:H4'	40:65:46:VAL:HG22	1.89	0.55
35:15:13:TRP:N	35:15:133:GLN:OE1	2.35	0.55
1:13:663:A:H2'	1:13:664:G:O4'	2.07	0.55
1:13:1078:U:O2	5:4E:130:ASN:ND2	2.34	0.55
1:13:1301:U:O2'	1:13:1302:U:H5'	2.06	0.55
13:4I:3:ARG:HH12	13:4I:7:VAL:HG13	1.71	0.55
13:4I:117:VAL:HG12	13:4I:118:ALA:H	1.72	0.55
17:8I:76:LEU:HD12	17:8I:77:VAL:C	2.32	0.55
17:8I:81:ARG:NH2	17:8I:83:ASP:OD2	2.40	0.55
23:2K:9:G:H1'	23:2K:47:7MG:H5'	1.88	0.55
26:1H:216:A:H2'	26:1H:217:G:H8	1.70	0.55
26:1H:654(P):G:H2'	26:1H:654(Q):C:C6	2.41	0.55
26:1H:1352:U:O2	26:1H:1570:A:H2	1.89	0.55
26:1H:2099:U:H2'	26:1H:2100:G:C8	2.41	0.55
32:41:115:ARG:NH2	32:41:137:GLU:OE2	2.39	0.55
38:88:11:LYS:HZ2	38:88:86:GLY:CA	2.20	0.55
44:E8:110:LYS:HG3	44:E8:111:HIS:H	1.71	0.55
47:H8:28:MET:HB2	47:H8:37:VAL:HG11	1.88	0.55
49:J8:76:ARG:HB3	49:J8:94:LEU:HD11	1.87	0.55
51:L8:3:ARG:HB3	51:L8:38:GLU:HA	1.89	0.55
1:1G:146:G:H2'	1:1G:147:G:H8	1.72	0.55
1:1G:1346:A:H3'	1:1G:1346:A:OP2	2.07	0.55
9:82:10:ARG:HD3	9:82:75:ASP:HB3	1.89	0.55
20:BA:36:LEU:O	20:BA:40:ALA:N	2.34	0.55
26:14:1054:A:H62	26:14:1104:C:H42	1.54	0.55
26:14:2122:U:H2'	26:14:2123:G:O4'	2.06	0.55
27:1J:44:G:H5"	27:1J:45:A:OP1	2.06	0.55
37:35:79:ARG:HG3	37:35:110:TYR:HB2	1.89	0.55
1:13:167:G:H2'	1:13:168:G:C8	2.42	0.55
3:2E:113:ALA:N	3:2E:183:ASP:OD2	2.40	0.55
26:1H:841:A:H2'	26:1H:842:G:C8	2.41	0.55
26:1H:1153:C:H2'	26:1H:1154:G:C8	2.42	0.55
26:1H:1420:U:O2'	26:1H:1421:G:OP1	2.24	0.55
26:1H:2236:C:H2'	26:1H:2237:G:O4'	2.07	0.55
26:1H:2467:C:C2'	26:1H:2468:G:H5'	2.37	0.55
33:51:4:ILE:HD13	33:51:4:ILE:H	1.71	0.55
33:51:130:ARG:NH1	33:51:130:ARG:HB3	2.21	0.55
34:61:144:VAL:HG22	34:61:145:VAL:HG23	1.89	0.55
50:K8:33:MET:HG2	50:K8:37:PHE:CE1	2.41	0.55
55:Q8:52:LYS:HA	55:Q8:54:GLU:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:977:A:O2'	1:1G:981:U:N3	2.40	0.55
1:1G:1095:U:OP1	1:1G:1108:G:N2	2.40	0.55
1:1G:1131:G:H2'	1:1G:1132:C:H6	1.70	0.55
3:22:88:ARG:HA	3:22:101:LEU:HD13	1.87	0.55
6:52:33:TYR:OH	6:52:78:GLU:HG3	2.05	0.55
8:72:20:TYR:HA	8:72:65:TYR:CZ	2.42	0.55
56:2L:65:G:H2'	56:2L:66:C:C6	2.42	0.55
26:14:51:G:O2'	26:14:119:A:N1	2.36	0.55
26:14:674:G:OP2	59:14:3870:HOH:O	2.18	0.55
26:14:1006:C:H1'	35:15:106:MET:HB3	1.88	0.55
26:14:1015:G:H2'	26:14:1016:G:H8	1.71	0.55
26:14:2538:C:H2'	26:14:2539:C:H6	1.72	0.55
26:14:2789:C:H2'	26:14:2790:A:O4'	2.07	0.55
32:49:7:LEU:HB2	32:49:104:GLU:OE1	2.07	0.55
35:15:42:TRP:CA	35:15:48:MET:HE1	2.37	0.55
1:13:1160:G:H1	1:13:1177:G:H22	1.53	0.55
2:1E:16:HIS:CD2	2:1E:16:HIS:N	2.74	0.55
22:1K:76:C:O2	26:1H:2507:C:O2'	2.23	0.55
26:1H:64:A:C5	45:F8:66:LEU:HD22	2.42	0.55
26:1H:1386:C:C2	26:1H:1387:C:C5	2.95	0.55
27:16:1(M):A:H61	27:16:119:A:N6	2.04	0.55
35:58:96:GLU:C	35:58:98:VAL:H	2.13	0.55
45:F8:27:THR:HB	45:F8:80:ILE:HG22	1.88	0.55
1:1G:22:G:H2'	1:1G:23:C:H6	1.70	0.55
1:1G:548:G:H2'	1:1G:549:C:C6	2.42	0.55
1:1G:669:U:H2'	1:1G:670:G:H8	1.71	0.55
1:1G:1343:G:H4'	9:82:122:ALA:HB3	1.89	0.55
3:22:84:ILE:HG23	3:22:85:ARG:HD2	1.87	0.55
26:14:1002:G:C2	26:14:1003:G:H1'	2.41	0.55
26:14:1007:C:H5"	35:15:35:ARG:NH1	2.22	0.55
26:14:1019:U:H2'	26:14:1020:A:H8	1.72	0.55
26:14:1786:A:H2	26:14:2606:C:H1'	1.71	0.55
26:14:2533:A:O5'	26:14:2533:A:H8	1.90	0.55
39:55:62:ALA:O	39:55:66:VAL:HG23	2.06	0.55
39:55:86:ARG:NH2	39:55:118:GLU:HA	2.22	0.55
46:C5:17:SER:O	46:C5:21:LYS:HB2	2.07	0.55
1:13:1032(A):G:H2'	1:13:1032(B):G:N7	2.21	0.55
9:8E:29:ASN:OD1	9:8E:65:VAL:N	2.40	0.55
10:1I:20:ALA:HA	10:1I:23:ILE:HD12	1.89	0.55
16:7I:21:VAL:O	16:7I:33:ILE:N	2.39	0.55
24:3K:56:C:N4	26:1H:2112:G:H1	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:53:A:C8	26:1H:54:G:C8	2.94	0.55
26:1H:732:C:H3'	59:1H:4008:HOH:O	2.06	0.55
26:1H:1510:A:H2'	26:1H:1510:A:N3	2.21	0.55
26:1H:2168:G:OP1	26:1H:2168:G:H4'	2.06	0.55
26:1H:2689:U:P	26:1H:2719:G:H22	2.30	0.55
27:16:90:C:H5'	38:88:18:LYS:HA	1.89	0.55
33:51:3:ARG:NH2	33:51:7:LEU:HD11	2.22	0.55
34:61:127:VAL:HA	34:61:138:ILE:O	2.07	0.55
37:78:88:LEU:HD12	37:78:95:VAL:HG11	1.88	0.55
39:98:46:GLY:HA2	39:98:49:ASP:HB2	1.89	0.55
48:I8:42:GLY:O	48:I8:57:PHE:HD2	1.90	0.55
50:K8:4:SER:HB3	50:K8:5:GLU:OE1	2.06	0.55
1:1G:447:G:N1	1:1G:485:G:H2'	2.22	0.55
1:1G:624:C:H2'	1:1G:625:G:H8	1.72	0.55
1:1G:1126:U:C4	1:1G:1281:U:C6	2.95	0.55
5:42:18:ARG:HH21	5:42:25:ARG:HB3	1.70	0.55
9:82:82:ALA:HB1	9:82:96:LEU:HD21	1.88	0.55
26:14:68:G:H2'	26:14:69:C:H6	1.72	0.55
26:14:221:A:C4	26:14:266:G:N7	2.75	0.55
26:14:962:G:H2'	26:14:963:U:H6	1.71	0.55
26:14:1794:U:H2'	26:14:1795:C:C6	2.42	0.55
26:14:2055:C:H4'	26:14:2056:G:H5"	1.89	0.55
26:14:2079:U:H2'	26:14:2080:G:O4'	2.07	0.55
31:39:8:GLN:HA	31:39:15:SER:HA	1.89	0.55
39:55:29:LEU:HB3	39:55:75:LEU:HD21	1.88	0.55
47:D5:163:LEU:HD12	47:D5:165:VAL:HG23	1.88	0.55
4:3E:173:TRP:CG	4:3E:189:PRO:HG3	2.42	0.55
16:7I:19:ILE:HD11	16:7I:39:TYR:HB2	1.88	0.55
26:1H:1680:U:H2'	26:1H:1681:G:O4'	2.07	0.55
26:1H:2061:G:H5"	26:1H:2503:A:C2	2.42	0.55
26:1H:2173:A:C8	26:1H:2174:C:H5	2.25	0.55
26:1H:2305:A:H5"	32:41:134:GLY:HA3	1.88	0.55
26:1H:2785:C:O2'	30:21:64:LYS:HD3	2.07	0.55
32:41:120:LEU:HB2	32:41:179:PRO:O	2.07	0.55
7:62:50:ILE:HG21	7:62:58:PRO:HA	1.89	0.55
18:9A:22:VAL:HG22	18:9A:23:LYS:H	1.72	0.55
26:14:857:C:H4'	48:E5:23:VAL:HG21	1.88	0.55
26:14:1454:U:OP1	39:55:77:ARG:NH1	2.40	0.55
31:39:53:THR:HG23	31:39:55:GLY:H	1.71	0.55
31:39:74:ARG:O	31:39:74:ARG:HG2	2.06	0.55
34:69:6:LEU:HB2	34:69:36:ALA:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:43:ASN:N	46:C5:43:ASN:OD1	2.38	0.55
52:I5:38:LYS:O	52:I5:40:HIS:ND1	2.39	0.55
1:13:652:U:C4	1:13:752:G:N3	2.75	0.54
1:13:749:C:H2'	1:13:750:G:H8	1.71	0.54
23:2K:8:4SU:O5'	23:2K:8:4SU:H6	2.07	0.54
23:2K:17:C:H5'	23:2K:62:C:OP1	2.07	0.54
26:1H:542:C:H42	26:1H:551:G:H1	1.54	0.54
26:1H:639:U:H2'	26:1H:640:C:C6	2.42	0.54
26:1H:719:C:H2'	26:1H:720:C:H6	1.71	0.54
26:1H:850:C:H5"	51:L8:18:ASP:HB2	1.89	0.54
26:1H:1759:A:H4'	26:1H:2715:C:C1'	2.37	0.54
26:1H:2062:A:N6	26:1H:2503:A:H62	2.05	0.54
26:1H:2179:C:H2'	26:1H:2180:U:H6	1.71	0.54
26:1H:2732:G:H3'	26:1H:2733:A:O4'	2.07	0.54
27:16:71:C:H2'	27:16:72:G:C8	2.39	0.54
38:88:112:GLU:OE2	38:88:112:GLU:N	2.29	0.54
44:E8:18:ARG:HD3	44:E8:76:VAL:HG13	1.89	0.54
46:G8:95:LYS:HE2	46:G8:97:ARG:HH22	1.72	0.54
52:M8:39:CYS:SG	52:M8:41:PRO:HD3	2.47	0.54
1:1G:910:C:OP2	12:3A:21:LYS:NZ	2.31	0.54
6:52:79:LEU:HB3	6:52:88:VAL:HG21	1.89	0.54
7:62:111:ARG:CZ	7:62:122:HIS:HB3	2.37	0.54
26:14:1009:A:H5'	42:85:59:ARG:HD3	1.88	0.54
26:14:1187:G:O5'	59:14:3597:HOH:O	2.18	0.54
26:14:2747:G:O6	26:14:2755:C:H5"	2.07	0.54
31:39:83:PHE:C	31:39:85:GLY:H	2.15	0.54
43:95:71:LEU:O	43:95:72:VAL:HG12	2.07	0.54
47:D5:91:LEU:HD22	47:D5:130:PRO:HG3	1.88	0.54
1:13:46:G:H2'	1:13:366:C:H41	1.73	0.54
1:13:632:A:H8	1:13:633:G:C8	2.25	0.54
1:13:994:A:N7	1:13:1216:G:H4'	2.22	0.54
1:13:1079:G:C6	1:13:1080:A:N6	2.75	0.54
12:3I:117:ARG:HB3	12:3I:122:THR:HB	1.89	0.54
26:1H:731:C:H5"	59:1H:3752:HOH:O	2.07	0.54
26:1H:1515:C:H2'	26:1H:1516:U:C6	2.42	0.54
27:16:15:A:H3'	27:16:16:G:H5'	1.89	0.54
29:11:2:ALA:C	29:11:3:VAL:HG23	2.32	0.54
37:78:144:GLU:OE2	37:78:144:GLU:N	2.40	0.54
39:98:103:ARG:HD2	39:98:108:GLY:O	2.07	0.54
41:B8:58:ASN:C	41:B8:58:ASN:HD22	2.14	0.54
41:B8:88:ILE:HD13	41:B8:91:ARG:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:D8:65:GLY:N	43:D8:91:TYR:O	2.39	0.54
1:1G:191:G:H1'	20:BA:104:LEU:O	2.07	0.54
1:1G:259:G:OP2	20:BA:83:ARG:NE	2.41	0.54
1:1G:406:G:H1	1:1G:436:C:H42	1.53	0.54
1:1G:438:G:C4'	4:32:123:HIS:HD2	2.19	0.54
1:1G:677:U:H3	1:1G:713:G:H22	1.55	0.54
11:2A:73:MET:SD	11:2A:103:LEU:HD13	2.47	0.54
13:4A:13:LYS:HG2	13:4A:14:ARG:H	1.73	0.54
26:14:110:G:C2	26:14:111:A:C8	2.95	0.54
26:14:747:U:O2	26:14:2014:A:H1'	2.07	0.54
26:14:1219:G:H1	26:14:1230:C:N4	1.98	0.54
29:19:244:ARG:HB2	29:19:245:PRO:HD2	1.90	0.54
32:49:5:VAL:HG21	32:49:101:ILE:HG22	1.90	0.54
33:59:149:ARG:HG3	33:59:162:ILE:HG22	1.88	0.54
36:25:91:LEU:HB3	59:25:305:HOH:O	2.07	0.54
1:13:638:G:H2'	1:13:639:G:O4'	2.08	0.54
1:13:1014:A:H4'	19:AI:14:HIS:ND1	2.21	0.54
1:13:1118:C:OP1	9:8E:104:ARG:NH1	2.40	0.54
1:13:1428:A:H2'	1:13:1429:C:C6	2.42	0.54
15:6I:63:ARG:HH12	15:6I:87:ILE:HD13	1.72	0.54
26:1H:320:A:H5"	26:1H:321:G:OP1	2.08	0.54
26:1H:857:C:OP1	48:I8:77:ARG:NH2	2.38	0.54
26:1H:1138:G:N2	35:58:106:MET:HE3	2.17	0.54
26:1H:1359:A:H2	26:1H:1372:U:O4	1.90	0.54
26:1H:1496:A:H8	26:1H:1577:C:O2'	1.91	0.54
26:1H:1515:C:H2'	26:1H:1516:U:H6	1.73	0.54
26:1H:1528:A:H2	26:1H:1542:G:C2	2.25	0.54
26:1H:1653:G:O6	39:98:11:ASN:ND2	2.40	0.54
50:K8:7:ARG:H	50:K8:10:LEU:H	1.55	0.54
1:1G:841:U:H4'	1:1G:842:C:C6	2.42	0.54
1:1G:1316:G:H5"	14:5A:17:LYS:NZ	2.22	0.54
2:12:237:ALA:C	2:12:239:VAL:H	2.14	0.54
4:32:20:TYR:HA	4:32:26:CYS:HB3	1.89	0.54
11:2A:18:ARG:NH2	11:2A:35:PRO:O	2.39	0.54
26:14:1515:C:O2'	26:14:1516:U:O5'	2.22	0.54
26:14:2275:C:H6	26:14:2275:C:H5'	1.72	0.54
26:14:2820:A:H1'	39:55:3:HIS:CD2	2.42	0.54
33:59:139:GLN:NE2	33:59:143:GLN:HG3	2.21	0.54
37:35:11:GLY:C	37:35:13:ASN:H	2.15	0.54
1:13:332:G:H2'	1:13:333:G:H8	1.72	0.54
2:1E:100:GLY:O	2:1E:104:ASN:N	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:8E:59:PHE:HZ	9:8E:88:TYR:HD2	1.55	0.54
10:1I:4:ILE:HG12	10:1I:100:THR:HA	1.89	0.54
10:1I:92:THR:OG1	10:1I:93:GLY:N	2.40	0.54
26:1H:566:U:O4	43:D8:78:LYS:HD3	2.06	0.54
26:1H:2485:G:OP1	38:88:46:GLN:NE2	2.31	0.54
26:1H:2784:C:O2'	30:21:42:ASP:OD2	2.21	0.54
29:11:59:LYS:HD2	29:11:60:ARG:H	1.72	0.54
30:21:50:GLY:HA2	30:21:77:ILE:HA	1.89	0.54
47:H8:18:LEU:O	47:H8:21:ALA:HB3	2.08	0.54
1:1G:127:G:N2	1:1G:234:C:O2	2.31	0.54
1:1G:862:C:O2'	1:1G:863:U:H5'	2.06	0.54
1:1G:1356:G:H2'	1:1G:1357:A:C8	2.42	0.54
1:1G:1411:C:N3	1:1G:1489:G:N1	2.51	0.54
1:1G:1413:A:H2'	1:1G:1414:U:O4'	2.07	0.54
3:22:70:VAL:HG12	3:22:72:LYS:N	2.22	0.54
5:42:110:LEU:O	5:42:115:VAL:HG23	2.07	0.54
8:72:19:VAL:HG23	8:72:21:LYS:HB2	1.90	0.54
26:14:1336:A:H2'	26:14:1337:G:H8	1.72	0.54
26:14:1382:G:C2'	26:14:1383:C:H5'	2.37	0.54
26:14:1935:G:H1'	26:14:1964:G:N2	2.22	0.54
26:14:2390:U:O2'	26:14:2391:G:H5'	2.08	0.54
31:39:117:ARG:NH1	31:39:120:GLU:OE1	2.41	0.54
36:25:77:ILE:HG12	36:25:78:ARG:N	2.21	0.54
1:13:603:U:H2'	1:13:604:G:C8	2.43	0.54
1:13:1179:A:O3'	9:8E:103:THR:OG1	2.23	0.54
1:13:1455:G:OP1	20:BI:35:THR:OG1	2.11	0.54
2:1E:198:ASP:HA	8:7E:68:ARG:NH2	2.19	0.54
17:8I:28:PRO:HA	17:8I:35:VAL:HA	1.89	0.54
22:1K:59:A:C8	22:1K:62:C:C4	2.96	0.54
26:1H:511:U:C5	26:1H:512:G:C5	2.96	0.54
26:1H:2145:C:H3'	26:1H:2146:C:H5'	1.90	0.54
26:1H:2239:G:P	59:1H:3595:HOH:O	2.66	0.54
26:1H:2756:U:H4'	26:1H:2757:A:OP1	2.08	0.54
37:78:19:VAL:HB	37:78:20:GLY:HA2	1.88	0.54
40:A8:12:PHE:O	40:A8:16:ASN:ND2	2.40	0.54
46:G8:40:GLU:HA	46:G8:42:VAL:N	2.23	0.54
55:Q8:50:LEU:C	55:Q8:52:LYS:N	2.61	0.54
1:1G:79:G:H2'	1:1G:79:G:N3	2.23	0.54
1:1G:278:G:O6	17:8A:92:ARG:NH2	2.40	0.54
1:1G:468:A:H4'	16:7A:80:PHE:O	2.08	0.54
1:1G:536:C:H2'	1:1G:537:G:C8	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:589:C:N3	1:1G:650:G:N2	2.35	0.54
1:1G:1224:G:H1	1:1G:1322:C:HO2'	1.51	0.54
2:12:73:THR:HG21	2:12:97:TRP:H	1.73	0.54
2:12:98:LEU:O	2:12:101:MET:HG2	2.07	0.54
2:12:220:ASP:O	2:12:224:GLN:N	2.31	0.54
8:72:36:LEU:HA	8:72:39:LEU:HD22	1.89	0.54
17:8A:18:THR:OG1	17:8A:69:LYS:NZ	2.38	0.54
19:AA:66:MET:HE2	52:I5:59:PHE:CD2	2.42	0.54
26:14:912:C:C6	26:14:913:U:H5	2.26	0.54
26:14:1420:U:O2'	26:14:1421:G:OP1	2.26	0.54
34:69:71:ILE:O	34:69:74:ASN:ND2	2.40	0.54
45:B5:49:VAL:HB	45:B5:83:VAL:HG21	1.88	0.54
47:D5:70:LEU:O	47:D5:89:PHE:N	2.38	0.54
1:13:611:A:H61	1:13:629:G:H1	1.54	0.54
26:1H:49:A:N7	26:1H:120:U:C5	2.65	0.54
26:1H:240:G:O6	59:1H:4308:HOH:O	2.17	0.54
26:1H:784:A:H5'	26:1H:785:G:OP1	2.07	0.54
26:1H:2077:A:H2'	26:1H:2078:C:H6	1.73	0.54
28:71:8:ARG:HA	28:71:11:LEU:HB3	1.90	0.54
31:31:127:GLU:HA	31:31:127:GLU:OE2	2.06	0.54
31:31:197:ASP:O	31:31:199:TRP:N	2.40	0.54
38:88:41:TRP:CD1	38:88:96:VAL:HG13	2.43	0.54
38:88:51:ARG:HB3	38:88:51:ARG:HH11	1.73	0.54
48:I8:68:GLU:OE2	48:I8:82:ARG:NH1	2.32	0.54
8:72:10:LEU:HD13	8:72:83:ILE:HD11	1.88	0.54
19:AA:60:VAL:HG21	19:AA:74:PHE:HB3	1.87	0.54
26:14:134:C:H2'	26:14:135:G:H8	1.71	0.54
26:14:959:A:C6	26:14:960:A:N1	2.75	0.54
26:14:2745:C:H2'	26:14:2746:U:O4'	2.07	0.54
59:14:3922:HOH:O	39:55:3:HIS:CE1	2.60	0.54
27:1J:7:G:H4'	40:65:29:PHE:CD2	2.43	0.54
34:69:14:ASP:OD1	34:69:15:VAL:N	2.41	0.54
35:15:121:LYS:HB3	35:15:123:TYR:HE2	1.71	0.54
38:45:25:ASP:OD1	38:45:25:ASP:N	2.40	0.54
38:45:110:THR:OG1	38:45:111:GLU:N	2.41	0.54
41:75:5:ALA:O	41:75:9:LEU:N	2.32	0.54
42:85:52:ARG:HA	42:85:55:ARG:HD3	1.90	0.54
1:13:156:G:H1	1:13:165:C:H42	1.54	0.54
1:13:1234:C:H1'	1:13:1364:U:O2	2.07	0.54
2:1E:166:ASP:C	2:1E:168:THR:H	2.16	0.54
2:1E:236:TYR:HA	2:1E:239:VAL:HG21	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:573:G:O2'	26:1H:574:C:H3'	2.06	0.54
26:1H:1429:G:H2'	26:1H:1430:C:C6	2.42	0.54
26:1H:2636:U:OP1	30:21:79:ARG:HA	2.08	0.54
26:1H:2845:G:H2'	26:1H:2846:G:C8	2.43	0.54
36:68:27:GLY:H	36:68:30:ALA:HB2	1.72	0.54
37:78:19:VAL:HB	37:78:27:HIS:HB3	1.90	0.54
47:H8:151:HIS:ND1	47:H8:167:PRO:O	2.40	0.54
50:K8:15:LYS:HD3	50:K8:67:LYS:NZ	2.23	0.54
1:1G:1028:C:H2'	1:1G:1028(A):C:O4'	2.07	0.54
1:1G:1127:G:N2	1:1G:1144:G:H22	2.06	0.54
1:1G:1379:G:H2'	1:1G:1380:U:H6	1.73	0.54
4:32:78:LEU:HD22	4:32:96:LEU:HB3	1.89	0.54
8:72:29:SER:H	8:72:32:LYS:HB2	1.71	0.54
26:14:802:A:H4'	59:14:3633:HOH:O	2.07	0.54
26:14:836:G:H2'	26:14:837:C:C6	2.43	0.54
26:14:1000:A:C6	26:14:1001:A:N1	2.76	0.54
26:14:1090:U:N3	26:14:1102:C:H1'	2.22	0.54
26:14:1814:G:H5"	29:19:54:ARG:NH1	2.23	0.54
29:19:159:ALA:HB1	29:19:198:ASN:O	2.07	0.54
44:A5:72:LYS:HB3	44:A5:106:ILE:HD12	1.88	0.54
1:13:235:C:H5'	17:8I:70:ARG:HG2	1.88	0.54
1:13:425:G:C6	1:13:426:G:N7	2.75	0.54
1:13:616:G:O2'	1:13:617:G:O5'	2.18	0.54
1:13:991:U:C4	1:13:1212:U:H1'	2.43	0.54
26:1H:287:C:H2'	26:1H:288:C:C6	2.43	0.54
26:1H:302:C:H2'	26:1H:303:U:C6	2.43	0.54
26:1H:1316:U:H2'	26:1H:1317:A:C8	2.43	0.54
26:1H:1430:C:H2'	26:1H:1431:U:C6	2.42	0.54
26:1H:2312:U:H5'	32:41:88:ILE:HD12	1.88	0.54
26:1H:2529:G:H5"	26:1H:2530:A:H5"	1.89	0.54
26:1H:2773:C:H2'	26:1H:2774:C:H6	1.72	0.54
36:68:88:ASN:ND2	36:68:92:GLU:H	2.06	0.54
39:98:26:LYS:HE2	39:98:70:LEU:O	2.07	0.54
41:B8:55:ASN:H	41:B8:59:THR:HB	1.73	0.54
42:C8:101:ARG:O	42:C8:103:PRO:HD3	2.08	0.54
47:H8:127:LYS:O	47:H8:161:VAL:HB	2.07	0.54
1:1G:999:U:O2	1:1G:1000:A:N6	2.37	0.54
1:1G:1132:C:H2'	1:1G:1133:G:H8	1.72	0.54
2:12:47:THR:HG23	2:12:202:PRO:HG2	1.89	0.54
2:12:51:LEU:HA	2:12:201:ILE:HD12	1.90	0.54
5:42:11:ILE:HD12	5:42:31:LEU:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9A:31:LEU:HD23	18:9A:31:LEU:H	1.72	0.54
26:14:892:G:C2	26:14:893:C:H1'	2.43	0.54
26:14:1542:G:O6	26:14:1543:A:N6	2.41	0.54
26:14:2056:G:N1	53:J5:4:HIS:HB3	2.15	0.54
26:14:2318:G:H22	40:65:2:ALA:HA	1.73	0.54
26:14:2680:C:H5'	30:29:189:PRO:HA	1.89	0.54
27:1J:21:G:H1	27:1J:62:C:H42	1.56	0.54
31:39:63:LYS:CE	31:39:67:GLN:HB3	2.37	0.54
32:49:111:LEU:HB2	32:49:112:PRO:HD3	1.90	0.54
39:55:103:ARG:HB3	39:55:108:GLY:HA2	1.88	0.54
55:M5:30:ARG:O	55:M5:32:LEU:N	2.40	0.54
1:13:737:A:C4	1:13:738:C:C5	2.95	0.54
1:13:1453:G:C8	20:BI:39:LYS:HE2	2.43	0.54
6:5E:76:ALA:HA	6:5E:79:LEU:HD12	1.90	0.54
11:2I:33:THR:OG1	11:2I:34:ASP:O	2.19	0.54
13:4I:14:ARG:HB3	13:4I:16:ASP:OD1	2.08	0.54
26:1H:858:U:O2	26:1H:2268:A:H2'	2.07	0.54
26:1H:1250:G:OP2	37:78:18:ARG:NH1	2.40	0.54
26:1H:2082:A:H2'	26:1H:2083:G:O4'	2.08	0.54
27:16:1(M):A:N6	27:16:119:A:H62	2.05	0.54
42:C8:47:TYR:CE2	43:D8:74:LYS:HE3	2.43	0.54
55:Q8:39:LYS:HG3	55:Q8:42:ARG:O	2.07	0.54
1:1G:518:C:H5"	1:1G:519:C:C6	2.43	0.54
26:14:686:G:H5"	54:L5:11:LYS:HZ3	1.72	0.54
26:14:686:G:N7	54:L5:5:TRP:CH2	2.76	0.54
26:14:1493:C:O4'	26:14:2210:G:N2	2.41	0.54
26:14:1750:G:O2'	26:14:1751:C:H5'	2.08	0.54
26:14:2816:C:H42	26:14:2830:G:H1	1.56	0.54
27:1J:3:C:H2'	27:1J:4:C:H6	1.73	0.54
52:I5:14:ILE:CG1	52:I5:33:VAL:HG11	2.38	0.54
1:13:8:A:H62	4:3E:208:SER:HB2	1.72	0.54
1:13:735:C:H2'	1:13:736:C:H6	1.71	0.54
1:13:791:G:C6	1:13:792:A:C2	2.95	0.54
2:1E:11:LEU:HB2	2:1E:213:LEU:HD21	1.90	0.54
7:6E:89:MET:HE3	7:6E:155:ARG:HB2	1.90	0.54
26:1H:306:U:O2	26:1H:312:G:N2	2.41	0.54
26:1H:569:U:C4	26:1H:570:G:C6	2.96	0.54
26:1H:612:G:N2	26:1H:616:A:O2'	2.39	0.54
26:1H:729:G:OP2	29:11:13:ARG:NH1	2.38	0.54
26:1H:2107:C:H2'	26:1H:2108:C:O4'	2.08	0.54
30:21:39:PRO:HA	30:21:44:TYR:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:6:ARG:HB3	33:51:65:HIS:CG	2.43	0.54
38:88:112:GLU:H	38:88:112:GLU:CD	2.16	0.54
48:I8:23:VAL:HA	48:I8:38:VAL:HG22	1.90	0.54
1:1G:617:G:H1	1:1G:623:C:H42	1.54	0.54
1:1G:940:C:H2'	1:1G:941:G:C8	2.42	0.54
1:1G:952:U:H4'	1:1G:964:A:N1	2.23	0.54
1:1G:1131:G:C8	1:1G:1132:C:H5	2.25	0.54
2:12:141:GLU:O	2:12:145:LEU:HB2	2.08	0.54
17:8A:59:ILE:HG22	17:8A:71:PHE:CD2	2.43	0.54
24:3L:34:G:N2	24:3L:35:A:C8	2.76	0.54
26:14:273(C):C:N4	26:14:363(C):G:H1	2.05	0.54
26:14:2004:G:OP1	59:14:3740:HOH:O	2.19	0.54
26:14:2183:C:H2'	26:14:2184:G:H8	1.73	0.54
26:14:2311:A:N7	32:49:44:GLY:HA3	2.22	0.54
30:29:63:LEU:HD23	30:29:63:LEU:H	1.72	0.54
33:59:15:VAL:HG11	33:59:29:PRO:HD3	1.89	0.54
36:25:49:ARG:HA	36:25:53:LYS:NZ	2.23	0.54
36:25:67:LYS:HE3	36:25:68:GLU:OE1	2.08	0.54
40:65:66:ALA:O	40:65:69:VAL:HG12	2.07	0.54
1:13:398:C:H2'	1:13:399:G:H8	1.73	0.53
1:13:458:C:H2'	1:13:464:G:O4'	2.08	0.53
1:13:509:A:H3'	59:13:1918:HOH:O	2.08	0.53
1:13:1090:U:H2'	1:13:1091:U:C6	2.43	0.53
1:13:1367:C:H5"	9:8E:114:TYR:HA	1.88	0.53
4:3E:167:GLY:HA2	29:19:135:PHE:CE1	2.43	0.53
8:7E:17:THR:HG21	8:7E:80:ILE:HG13	1.89	0.53
26:1H:821:A:H2'	26:1H:946:G:H5"	1.90	0.53
26:1H:990:A:N6	26:1H:1186:G:H1'	2.23	0.53
26:1H:1309:G:OP1	54:P8:9:ARG:HB2	2.08	0.53
26:1H:1980:G:O2'	26:1H:1982:C:OP2	2.24	0.53
26:1H:2053:G:OP1	59:1H:3726:HOH:O	2.19	0.53
26:1H:2674:G:O2'	36:68:29:ASN:OD1	2.09	0.53
26:1H:2880:C:O2'	39:98:90:ARG:NH1	2.41	0.53
45:F8:1:MET:O	45:F8:3:THR:HG23	2.08	0.53
1:1G:103:C:P	20:BA:17:ARG:HH21	2.31	0.53
1:1G:474:G:H2'	1:1G:475:G:H8	1.71	0.53
1:1G:983:A:N1	1:1G:1222:G:N2	2.56	0.53
2:12:67:THR:H	2:12:160:ASP:HB2	1.74	0.53
2:12:92:TYR:CD1	2:12:151:GLY:HA3	2.43	0.53
19:AA:41:VAL:HG13	19:AA:43:GLU:H	1.73	0.53
26:14:588:U:H2'	26:14:589:C:C6	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:643:A:H2'	26:14:644:A:C8	2.42	0.53
26:14:755:C:H2'	26:14:756:C:C6	2.43	0.53
26:14:770:G:P	59:14:3807:HOH:O	2.66	0.53
26:14:962:G:H2'	26:14:963:U:C6	2.43	0.53
26:14:1681:G:H21	26:14:1762:A:H3'	1.72	0.53
26:14:2320:A:N6	26:14:2333:A:H2'	2.23	0.53
26:14:2471:C:N4	26:14:2476:A:O2'	2.33	0.53
26:14:2688:U:H5	26:14:2720:U:OP2	1.91	0.53
27:1J:14:U:H4'	27:1J:70:C:O2	2.08	0.53
29:19:255:LYS:H	29:19:255:LYS:HE3	1.73	0.53
1:13:49:U:C2	1:13:361:G:N2	2.76	0.53
1:13:156:G:H1	1:13:165:C:N4	2.05	0.53
1:13:288:A:H2'	1:13:289:G:H4'	1.90	0.53
1:13:433:C:H2'	1:13:434:U:C6	2.42	0.53
1:13:1106:G:H5"	3:2E:172:ARG:HG3	1.90	0.53
1:13:1212:U:H5"	1:13:1213:A:O5'	2.08	0.53
2:1E:21:ARG:HG3	2:1E:22:LYS:HG2	1.90	0.53
22:1K:19:G:H1'	22:1K:61:U:C4	2.43	0.53
26:1H:559:G:H22	42:C8:49:HIS:CE1	2.26	0.53
26:1H:1397:U:OP2	26:1H:1398:C:N4	2.27	0.53
27:16:29:A:OP2	40:A8:31:SER:HB2	2.08	0.53
29:11:10:THR:OG1	29:11:13:ARG:HB2	2.07	0.53
31:31:53:THR:HG23	31:31:56:GLU:CD	2.33	0.53
32:41:39:ILE:HD11	32:41:94:LEU:HD11	1.89	0.53
33:51:101:ARG:NH2	33:51:122:THR:HA	2.22	0.53
46:G8:76:CYS:HB2	46:G8:82:PRO:HD3	1.90	0.53
53:N8:40:LYS:CE	53:N8:46:CYS:HB3	2.38	0.53
55:Q8:34:TRP:CE2	55:Q8:36:LYS:HA	2.43	0.53
55:Q8:42:ARG:O	55:Q8:42:ARG:HG2	2.07	0.53
1:1G:102:G:O2'	1:1G:151:A:N3	2.40	0.53
1:1G:373:A:H2'	1:1G:374:A:C8	2.42	0.53
1:1G:548:G:H2'	1:1G:549:C:H6	1.74	0.53
26:14:902:C:H2'	26:14:903:C:C6	2.43	0.53
26:14:1889:A:H2'	26:14:1890:A:C8	2.43	0.53
26:14:2688:U:C5	26:14:2720:U:OP2	2.61	0.53
40:65:11:LYS:O	40:65:15:ARG:HG2	2.07	0.53
1:13:660:G:H2'	1:13:661:G:H8	1.71	0.53
1:13:1442:G:C6	1:13:1446:A:C6	2.96	0.53
9:8E:59:PHE:HZ	9:8E:88:TYR:CD2	2.26	0.53
10:1I:54:PHE:CD2	10:1I:55:LYS:HG2	2.43	0.53
22:1K:56:U:C2	22:1K:58:A:H5"	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1K:73:A:H2'	22:1K:74:A:C8	2.43	0.53
26:1H:432:A:H2'	26:1H:433:C:C6	2.43	0.53
26:1H:1191:G:OP1	37:78:32:THR:OG1	2.27	0.53
26:1H:1274:A:N1	26:1H:1644:C:O2'	2.26	0.53
26:1H:1295:C:O4'	39:98:23:ASN:ND2	2.33	0.53
26:1H:2768:C:O2'	35:58:89:LYS:HE2	2.07	0.53
32:41:83:ARG:N	32:41:86:MET:SD	2.80	0.53
35:58:57:ALA:O	35:58:59:LYS:N	2.40	0.53
42:C8:8:VAL:HG23	42:C8:11:ARG:HH21	1.72	0.53
55:Q8:24:ALA:O	55:Q8:46:ARG:HG2	2.09	0.53
55:Q8:45:GLY:HA2	55:Q8:46:ARG:C	2.33	0.53
1:1G:123:C:H2'	1:1G:124:G:C8	2.43	0.53
1:1G:963:G:H21	10:1A:55:LYS:CE	2.22	0.53
1:1G:1275:A:H2'	1:1G:1276:G:H8	1.73	0.53
3:22:57:ILE:HG12	3:22:66:VAL:HG13	1.90	0.53
6:52:8:ILE:HG13	6:52:88:VAL:HG22	1.90	0.53
8:72:99:GLU:CD	8:72:100:ILE:H	2.16	0.53
18:9A:59:SER:HB2	18:9A:62:GLU:H	1.73	0.53
26:14:141:A:H8	26:14:1595:G:H21	1.55	0.53
26:14:863:A:H2'	26:14:864:G:H8	1.74	0.53
26:14:1028:A:N6	26:14:1125:G:H2'	2.24	0.53
26:14:1693:U:O2'	29:19:14:ARG:NH2	2.41	0.53
26:14:1945:G:H2'	26:14:1946:U:C6	2.44	0.53
26:14:2115:G:H2'	26:14:2116:G:C8	2.44	0.53
26:14:2262:U:H4'	26:14:2328:A:H2	1.73	0.53
26:14:2462:U:H2'	26:14:2463:C:C6	2.44	0.53
26:14:2660:A:H2'	26:14:2661:G:O4'	2.08	0.53
33:59:144:VAL:O	33:59:148:ILE:HG12	2.08	0.53
39:55:21:TYR:OH	39:55:43:GLU:HG2	2.08	0.53
45:B5:30:VAL:HG11	45:B5:39:ILE:HD11	1.90	0.53
1:13:1298:C:P	7:6E:114:ARG:HH22	2.31	0.53
2:1E:31:TYR:O	2:1E:42:ILE:HG13	2.08	0.53
8:7E:36:LEU:HA	8:7E:39:LEU:HD23	1.89	0.53
8:7E:46:LYS:HD2	8:7E:62:TYR:HB3	1.88	0.53
13:4I:15:VAL:HG23	13:4I:43:THR:O	2.08	0.53
24:3K:37:MIA:H162	24:3K:37:MIA:H113	1.90	0.53
29:11:213:ARG:O	29:11:216:GLY:N	2.33	0.53
32:41:108:ASN:OD1	32:41:108:ASN:N	2.40	0.53
34:61:69:LYS:O	34:61:73:GLU:HB2	2.09	0.53
37:78:122:PRO:HA	37:78:142:GLY:HA3	1.90	0.53
39:98:10:LEU:O	39:98:12:ARG:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:B8:57:PHE:O	41:B8:58:ASN:ND2	2.41	0.53
1:1G:186(D):C:H2'	1:1G:186(E):C:H6	1.73	0.53
1:1G:458:C:H2'	1:1G:464:G:O4'	2.08	0.53
1:1G:1053:G:H4'	1:1G:1054:C:H5'	1.91	0.53
1:1G:1521:G:H2'	1:1G:1522:U:C6	2.43	0.53
3:22:37:GLN:O	3:22:40:ARG:HG3	2.08	0.53
6:52:11:ASN:HB3	6:52:14:LEU:HB3	1.90	0.53
6:52:15:ASP:O	6:52:19:LEU:N	2.42	0.53
11:2A:13:GLN:HA	11:2A:75:TYR:O	2.08	0.53
13:4A:84:ILE:O	13:4A:86:CYS:N	2.41	0.53
26:14:362:U:H3'	26:14:363:G:H5"	1.89	0.53
26:14:389:G:N1	37:35:71:VAL:HG12	2.23	0.53
26:14:1731:G:H2'	26:14:1732:A:O4'	2.08	0.53
26:14:2134:A:N7	26:14:2157:G:H1'	2.23	0.53
26:14:2286:A:C8	26:14:2287:A:C6	2.96	0.53
26:14:2345:G:N3	26:14:2381:C:H2'	2.23	0.53
26:14:2578:G:OP1	26:14:2614:A:N6	2.41	0.53
26:14:2724:C:OP1	30:29:118:LYS:NZ	2.40	0.53
27:1J:13:A:N1	27:1J:69:G:O2'	2.29	0.53
34:69:81:VAL:HG23	34:69:143:SER:HB2	1.90	0.53
1:13:611:A:N1	1:13:629:G:N2	2.57	0.53
1:13:939:G:H5"	7:6E:102:ARG:HH22	1.73	0.53
1:13:1151:A:O2'	1:13:1152:A:H8	1.91	0.53
1:13:1206:G:C6	1:13:1207:G:C5	2.97	0.53
2:1E:178:ARG:NH1	2:1E:196:LEU:O	2.38	0.53
5:4E:74:GLY:O	5:4E:115:VAL:HA	2.08	0.53
12:3I:84:LEU:HB2	12:3I:105:TYR:CE2	2.44	0.53
23:2K:1:C:H2'	23:2K:2:G:H8	1.74	0.53
26:1H:483:A:O2'	46:G8:59:GLY:HA2	2.08	0.53
26:1H:805:G:OP2	37:78:41:ARG:HG2	2.08	0.53
26:1H:1168:G:C2	26:1H:1182:A:C2	2.96	0.53
26:1H:1278:A:OP1	39:98:36:THR:HG22	2.09	0.53
26:1H:1591:G:H2'	26:1H:1592:C:C6	2.44	0.53
27:16:44:G:H1'	27:16:47:C:H42	1.73	0.53
31:31:158:THR:OG1	31:31:159:GLY:N	2.41	0.53
33:51:92:ILE:HD12	33:51:93:GLY:H	1.73	0.53
40:A8:32:LEU:O	40:A8:62:LYS:HE2	2.09	0.53
55:Q8:14:VAL:O	55:Q8:15:LYS:HD3	2.08	0.53
1:1G:230:G:N2	1:1G:231:G:C4	2.77	0.53
1:1G:1195:C:O2	1:1G:1197:G:H1'	2.08	0.53
2:12:22:LYS:HB3	2:12:40:HIS:NE2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:63:MET:SD	2:12:225:ALA:HB1	2.48	0.53
4:32:55:ALA:O	4:32:59:ARG:HG2	2.09	0.53
13:4A:14:ARG:HA	13:4A:43:THR:O	2.07	0.53
15:6A:16:ALA:HA	15:6A:27:VAL:HG22	1.89	0.53
26:14:1288:U:H4'	26:14:1289:C:OP2	2.09	0.53
26:14:1515:C:H2'	26:14:1516:U:H6	1.74	0.53
26:14:1612:C:H42	26:14:1619:G:H1	1.56	0.53
26:14:1759:A:H4'	26:14:2715:C:O4'	2.09	0.53
26:14:1815:A:C5	26:14:1817:G:C6	2.96	0.53
26:14:2340:G:H2'	26:14:2341:G:C8	2.43	0.53
36:25:7:TYR:HE1	36:25:20:MET:HE3	1.73	0.53
38:45:69:PHE:CD1	38:45:70:PRO:HD2	2.44	0.53
1:13:198:G:N7	1:13:220:G:N2	2.56	0.53
1:13:225:C:H2'	1:13:226:G:O4'	2.08	0.53
4:3E:93:PHE:HA	4:3E:96:LEU:HD23	1.90	0.53
5:4E:95:ALA:O	5:4E:98:THR:OG1	2.26	0.53
15:6I:63:ARG:NH1	15:6I:87:ILE:HD13	2.24	0.53
26:1H:97:C:H5"	50:K8:3:LEU:HA	1.89	0.53
26:1H:1312:U:O3'	59:1H:3897:HOH:O	2.18	0.53
26:1H:1340:U:H4'	26:1H:1341:U:OP2	2.08	0.53
26:1H:1420:U:HO2'	26:1H:1421:G:P	2.31	0.53
26:1H:1444:G:O6	59:1H:3654:HOH:O	2.19	0.53
26:1H:1889:A:H2'	26:1H:1890:A:O4'	2.09	0.53
29:11:223:GLY:HA3	29:11:231:HIS:ND1	2.23	0.53
30:21:78:LEU:O	30:21:79:ARG:HB2	2.09	0.53
30:21:167:VAL:HG21	30:21:187:ALA:CB	2.39	0.53
32:41:151:ALA:HB3	32:41:153:ARG:NH1	2.24	0.53
35:58:1:MET:HE2	43:D8:13:ARG:N	2.24	0.53
44:E8:35:ILE:HG23	53:N8:28:PRO:HD2	1.91	0.53
46:G8:85:VAL:HG23	46:G8:96:ILE:HB	1.91	0.53
49:J8:3:LYS:O	49:J8:12:PRO:HD3	2.09	0.53
1:1G:520:A:N1	1:1G:536:C:H1'	2.22	0.53
1:1G:591:U:OP2	8:72:30:ARG:NH1	2.40	0.53
1:1G:604:G:H2'	1:1G:605:U:O4'	2.09	0.53
1:1G:1086:U:H2'	1:1G:1087:G:O4'	2.08	0.53
13:4A:66:LEU:HA	13:4A:70:LEU:HG	1.90	0.53
17:8A:67:LYS:O	17:8A:68:ARG:HB3	2.07	0.53
19:AA:51:VAL:O	19:AA:57:HIS:HA	2.08	0.53
26:14:1462:C:H4'	26:14:2703:C:H5'	1.90	0.53
26:14:2461:C:H2'	26:14:2462:U:C6	2.43	0.53
33:59:42:ARG:HH12	33:59:55:PRO:HD3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M5:57:ARG:H	55:M5:57:ARG:HD3	1.74	0.53
1:13:68:G:H5'	1:13:171:A:H1'	1.89	0.53
11:2I:59:TYR:CZ	11:2I:63:LEU:HD11	2.43	0.53
12:3I:66:VAL:HG22	12:3I:67:THR:N	2.23	0.53
26:1H:445:C:O2'	26:1H:446:G:H5'	2.09	0.53
26:1H:492:A:H2'	26:1H:493:G:O4'	2.08	0.53
26:1H:710:G:H2'	26:1H:711:G:C8	2.44	0.53
26:1H:902:C:H2'	26:1H:903:C:C6	2.43	0.53
27:16:44:G:C2	27:16:48:A:C2	2.96	0.53
32:41:56:ALA:HB2	32:41:153:ARG:HE	1.73	0.53
40:A8:35:ILE:O	40:A8:35:ILE:HG12	2.05	0.53
1:1G:468:A:C5	1:1G:474:G:H1'	2.44	0.53
1:1G:1075:C:H5'	2:12:103:THR:HG21	1.89	0.53
1:1G:1320:C:O2	19:AA:36:ARG:NH2	2.42	0.53
3:22:138:VAL:HG23	3:22:151:VAL:HG23	1.91	0.53
4:32:31:CYS:C	4:32:33:MET:H	2.15	0.53
6:52:2:ARG:HE	6:52:69:GLU:HB3	1.74	0.53
24:3L:9:A:H8	24:3L:11:C:H41	1.56	0.53
26:14:67:U:N3	26:14:74:A:H2	2.00	0.53
26:14:662:G:OP1	37:35:15:ARG:NH1	2.42	0.53
26:14:910:A:C5	38:45:13:GLN:HG3	2.43	0.53
26:14:960:A:H61	38:45:82:ARG:NH2	2.05	0.53
26:14:1421:G:C2	26:14:1422:G:N7	2.77	0.53
26:14:1709:U:H2'	26:14:1710:C:C6	2.43	0.53
26:14:2086:U:H2'	26:14:2087:G:C8	2.44	0.53
26:14:2698:U:H2'	26:14:2699:C:C6	2.44	0.53
33:59:163:TYR:CE1	33:59:169:VAL:HG21	2.43	0.53
36:25:73:ASP:OD2	41:75:32:TYR:OH	2.26	0.53
38:45:32:TYR:N	38:45:32:TYR:CD1	2.76	0.53
38:45:34:LEU:HD12	38:45:130:LYS:O	2.09	0.53
42:85:47:TYR:HA	42:85:50:ARG:NH2	2.24	0.53
47:D5:128:VAL:HG23	47:D5:160:GLY:HA3	1.90	0.53
1:13:24:U:H2'	1:13:25:C:H6	1.74	0.53
1:13:1028:C:N3	1:13:1033:G:N2	2.57	0.53
2:1E:18:GLY:N	2:1E:42:ILE:HG22	2.23	0.53
26:1H:748:G:C8	44:E8:89:ALA:HB1	2.44	0.53
26:1H:1859:A:N6	26:1H:1883:G:O2'	2.42	0.53
26:1H:1952:A:OP1	36:68:44:LYS:NZ	2.41	0.53
28:71:13:LYS:HB2	28:71:14:VAL:HG23	1.90	0.53
35:58:46:VAL:CG1	35:58:48:MET:HG3	2.39	0.53
36:68:75:SER:CB	41:B8:74:ARG:HH12	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:49:ARG:HG3	55:Q8:57:ARG:HD3	1.91	0.53
38:88:34:LEU:HD23	38:88:104:PHE:HD2	1.74	0.53
41:B8:56:GLY:O	41:B8:59:THR:HG22	2.08	0.53
43:D8:5:VAL:HG23	43:D8:6:LYS:N	2.23	0.53
46:G8:14:LEU:HD12	46:G8:23:ARG:O	2.08	0.53
46:G8:28:LYS:HD2	46:G8:40:GLU:HG2	1.90	0.53
1:1G:255:G:H2'	1:1G:256:U:C6	2.44	0.53
1:1G:332:G:OP2	20:BA:10:LEU:HD12	2.08	0.53
1:1G:512:U:H2'	1:1G:513:C:C6	2.43	0.53
1:1G:1004:A:H2	1:1G:1024:G:C8	2.26	0.53
1:1G:1082:G:H8	1:1G:1082:G:OP2	1.91	0.53
2:12:9:GLU:HB2	2:12:217:ARG:HH22	1.74	0.53
2:12:53:ARG:NH1	2:12:199:TYR:HA	2.24	0.53
5:42:109:ILE:HG22	5:42:110:LEU:HD23	1.91	0.53
6:52:15:ASP:OD1	6:52:16:GLN:N	2.41	0.53
11:2A:22:HIS:HB3	11:2A:29:ILE:HG12	1.90	0.53
18:9A:30:ASP:O	18:9A:33:ASP:HB3	2.09	0.53
18:9A:53:ARG:HA	18:9A:56:THR:OG1	2.08	0.53
26:14:639:U:H3	26:14:649:G:H1	1.55	0.53
26:14:654(D):G:H22	26:14:654(Q):C:H42	1.56	0.53
26:14:994:C:OP1	42:85:53:ARG:NH2	2.41	0.53
26:14:1131:G:N2	26:14:1132:A:N3	2.57	0.53
26:14:1533:C:H42	26:14:1538:G:H1	1.57	0.53
26:14:2607:G:H2'	26:14:2608:G:O4'	2.09	0.53
31:39:95:ARG:HB2	31:39:97:TYR:HE1	1.72	0.53
32:49:20:ILE:HA	32:49:25:TYR:HB2	1.90	0.53
35:15:99:LEU:O	35:15:103:VAL:HG23	2.09	0.53
38:45:118:LEU:HD13	38:45:131:ILE:HG23	1.91	0.53
42:85:111:GLU:OE1	42:85:114:LYS:HD3	2.08	0.53
1:13:484:G:O2'	1:13:485:G:OP2	2.21	0.53
1:13:979:C:N4	59:13:1827:HOH:O	2.42	0.53
1:13:1090:U:H2'	1:13:1091:U:H6	1.74	0.53
1:13:1234:C:O2'	1:13:1235:U:H5'	2.09	0.53
1:13:1244:C:N4	1:13:1293:G:H1	2.03	0.53
8:7E:14:ARG:HG3	8:7E:83:ILE:HG23	1.91	0.53
10:1I:6:ILE:HG12	10:1I:72:VAL:O	2.09	0.53
11:2I:46:GLY:HA2	11:2I:50:TYR:O	2.09	0.53
14:5I:23:ARG:HD2	14:5I:28:GLY:O	2.09	0.53
15:6I:66:LEU:O	15:6I:69:TYR:HB3	2.09	0.53
22:1K:52:C:H42	22:1K:64:G:H1	1.56	0.53
26:1H:586:A:P	59:1H:3821:HOH:O	2.66	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1264:G:OP1	53:N8:19:ARG:NH1	2.40	0.53
27:16:71:C:O2'	27:16:72:G:H5'	2.09	0.53
30:21:5:LEU:HD22	30:21:197:ILE:HG22	1.91	0.53
32:41:98:ARG:HA	32:41:101:ILE:HG23	1.91	0.53
33:51:86:GLU:HG3	33:51:165:ALA:HB3	1.91	0.53
38:88:11:LYS:HZ2	38:88:86:GLY:HA3	1.74	0.53
41:B8:77:PRO:HG2	41:B8:80:SER:HB2	1.91	0.53
44:E8:17:VAL:C	44:E8:19:LEU:H	2.16	0.53
46:G8:94:LYS:NZ	46:G8:95:LYS:H	2.07	0.53
50:K8:18:PRO:O	50:K8:21:LEU:HB2	2.09	0.53
53:N8:40:LYS:HG2	53:N8:46:CYS:HA	1.90	0.53
1:1G:345:C:O2'	1:1G:346:G:OP2	2.24	0.53
1:1G:632:A:H1'	1:1G:633:G:OP2	2.07	0.53
2:12:12:GLU:HB3	2:12:213:LEU:HD22	1.91	0.53
2:12:127:ILE:HA	2:12:130:ARG:HG3	1.90	0.53
12:3A:37:CYS:HA	12:3A:58:VAL:HA	1.90	0.53
13:4A:86:CYS:HA	19:AA:73:GLU:O	2.08	0.53
26:14:2438:U:O3'	26:14:2439:A:H3'	2.09	0.53
27:1J:78:A:H2'	27:1J:79:C:O4'	2.08	0.53
36:25:10:VAL:HG13	36:25:17:ARG:O	2.09	0.53
47:D5:17:ALA:HA	47:D5:20:ARG:HD2	1.90	0.53
1:13:468:A:H3'	1:13:474:G:H8	1.73	0.53
2:1E:51:LEU:HD23	2:1E:201:ILE:HD12	1.90	0.53
4:3E:111:ALA:HB2	4:3E:120:LEU:HD11	1.89	0.53
6:5E:52:ILE:O	6:5E:55:ASP:HB2	2.09	0.53
10:1I:81:THR:O	10:1I:85:LEU:HG	2.09	0.53
26:1H:742:G:H2'	26:1H:743:G:C8	2.43	0.53
26:1H:1240:U:O2'	26:1H:1241:A:H5'	2.09	0.53
26:1H:1478:G:H2'	26:1H:1479:G:C8	2.39	0.53
26:1H:2416:C:H5"	37:78:65:ARG:NH1	2.24	0.53
27:16:13:A:O2'	27:16:14:U:H3'	2.09	0.53
28:71:226:PRO:HD2	28:71:227:HIS:NE2	2.24	0.53
29:11:25:THR:HG22	29:11:82:ILE:H	1.74	0.53
32:41:84:LYS:HG3	32:41:84:LYS:O	2.09	0.53
32:41:150:ASP:OD1	32:41:150:ASP:N	2.34	0.53
37:78:58:THR:HG21	55:Q8:52:LYS:HD3	1.91	0.53
50:K8:7:ARG:HA	50:K8:10:LEU:HB2	1.90	0.53
1:1G:160:A:H2'	1:1G:161:A:O4'	2.09	0.53
1:1G:661:G:H1	1:1G:744:C:H42	1.57	0.53
1:1G:1191:A:H5"	3:22:4:LYS:HD3	1.91	0.53
3:22:18:TRP:CD1	14:5A:54:PRO:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:870:A:OP1	38:45:6:ARG:HD2	2.09	0.53
26:14:1412:A:H2'	26:14:1413:G:C8	2.43	0.53
26:14:2016:U:O2	53:J5:7:PRO:HG2	2.08	0.53
27:1J:29:A:OP2	40:65:31:SER:HB2	2.09	0.53
30:29:14:ILE:O	30:29:21:VAL:N	2.25	0.53
30:29:136:ARG:HG2	30:29:136:ARG:HH11	1.73	0.53
33:59:19:VAL:HA	33:59:24:VAL:HG12	1.90	0.53
36:25:68:GLU:HB3	36:25:78:ARG:HH11	1.74	0.53
37:35:85:LEU:HA	37:35:88:LEU:HB3	1.90	0.53
40:65:41:ASP:OD1	40:65:44:LYS:HB2	2.08	0.53
52:I5:18:CYS:SG	52:I5:19:GLY:HA2	2.49	0.53
1:13:37:U:O2'	1:13:500:G:H4'	2.10	0.52
1:13:356:A:H2'	1:13:357:G:H8	1.74	0.52
1:13:1319:A:OP2	19:AI:5:LEU:HD22	2.09	0.52
1:13:1372:U:OP1	9:8E:72:GLY:N	2.42	0.52
9:8E:9:ARG:HD2	9:8E:14:VAL:HG13	1.90	0.52
20:BI:26:ASN:HB2	20:BI:71:THR:CG2	2.39	0.52
26:1H:303:U:H2'	26:1H:304:G:C8	2.43	0.52
26:1H:500:G:N1	26:1H:503:A:OP2	2.41	0.52
26:1H:1053:C:N3	26:1H:1107:G:N2	2.57	0.52
26:1H:1141:U:C5	35:58:64:GLY:HA3	2.43	0.52
26:1H:1298:C:P	59:1H:3549:HOH:O	2.67	0.52
26:1H:2257:U:H2'	26:1H:2258:C:C6	2.44	0.52
27:16:44:G:H1'	27:16:47:C:N4	2.24	0.52
29:11:95:LEU:HD12	29:11:103:ARG:O	2.09	0.52
30:21:93:VAL:HG21	30:21:177:PRO:HA	1.91	0.52
33:51:86:GLU:CG	33:51:165:ALA:H	2.18	0.52
37:78:52:GLU:HG3	37:78:57:THR:HA	1.91	0.52
39:98:53:HIS:HB2	39:98:94:TYR:CE2	2.44	0.52
55:Q8:34:TRP:CZ2	55:Q8:36:LYS:HD3	2.44	0.52
2:12:136:VAL:HG13	2:12:139:LYS:HD3	1.91	0.52
3:22:87:LEU:HA	3:22:90:GLU:HG2	1.91	0.52
3:22:136:GLN:O	3:22:140:ARG:N	2.41	0.52
26:14:330:A:H2	26:14:1210:A:HO2'	1.57	0.52
26:14:796:C:H2'	26:14:797:C:H6	1.71	0.52
26:14:1759:A:C8	26:14:2696:U:H1'	2.43	0.52
26:14:2528:U:O2'	26:14:2530:A:OP1	2.21	0.52
34:69:127:VAL:HA	34:69:138:ILE:O	2.09	0.52
40:65:110:LEU:HD23	40:65:112:PHE:CZ	2.45	0.52
1:13:75:C:O5'	1:13:75:C:H6	1.92	0.52
1:13:129(A):G:H4'	1:13:130:A:H5"	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:163:C:O2	1:13:164:U:N3	2.41	0.52
1:13:1226:C:OP2	13:4I:103:THR:OG1	2.21	0.52
1:13:1508:G:H2'	1:13:1509:C:C6	2.44	0.52
2:1E:121:LEU:HA	2:1E:124:SER:OG	2.09	0.52
9:8E:125:TYR:HD1	9:8E:126:SER:H	1.57	0.52
13:4I:72:ALA:O	13:4I:75:ALA:HB3	2.09	0.52
17:8I:10:VAL:HG12	17:8I:53:LEU:HA	1.90	0.52
26:1H:321:G:O3'	31:31:168:ARG:NH2	2.42	0.52
26:1H:986:C:H3'	59:1H:3937:HOH:O	2.10	0.52
26:1H:2698:U:H2'	26:1H:2699:C:C6	2.44	0.52
26:1H:2837:G:H21	39:98:45:ARG:NH2	2.06	0.52
27:16:89:G:C6	27:16:89(A):A:C6	2.98	0.52
29:11:231:HIS:CD2	29:11:249:PRO:HA	2.44	0.52
30:21:52:LEU:O	30:21:75:VAL:HG23	2.09	0.52
33:51:20:ALA:HB1	33:51:21:PRO:HD2	1.90	0.52
34:61:114:LEU:HD22	34:61:114:LEU:N	2.24	0.52
35:58:57:ALA:C	35:58:59:LYS:N	2.67	0.52
1:1G:476:G:H2'	1:1G:477:G:H8	1.75	0.52
1:1G:925:G:H5"	1:1G:926:G:OP1	2.10	0.52
1:1G:1375:A:H2'	1:1G:1376:U:O4'	2.08	0.52
3:22:102:ASN:OD1	3:22:102:ASN:N	2.43	0.52
4:32:65:ARG:HD2	4:32:72:GLU:HA	1.90	0.52
6:52:44:GLY:HA2	6:52:59:TYR:CZ	2.44	0.52
9:82:20:ARG:O	9:82:60:ASP:HB2	2.09	0.52
15:6A:43:LEU:HD11	15:6A:53:HIS:HA	1.91	0.52
56:2L:8:4SU:O5'	56:2L:8:4SU:H6	2.10	0.52
56:2L:20:G:C2	56:2L:58:A:N3	2.78	0.52
26:14:353:G:H2'	26:14:354:G:C8	2.44	0.52
26:14:747:U:C5	53:J5:2:ALA:HB3	2.44	0.52
26:14:956:G:H2'	26:14:957:A:H2'	1.91	0.52
26:14:1594:G:H5"	26:14:1595:G:OP2	2.09	0.52
31:39:192:LEU:HD22	31:39:194:MET:HE2	1.91	0.52
32:49:113:ARG:HH11	32:49:142:PRO:HB3	1.74	0.52
37:35:50:ARG:HB2	37:35:50:ARG:NH1	2.24	0.52
42:85:10:ARG:HG2	42:85:14:HIS:CD2	2.45	0.52
47:D5:93:ASP:N	47:D5:130:PRO:HG2	2.24	0.52
47:D5:103:ARG:HD3	47:D5:136:PHE:CD2	2.44	0.52
55:M5:40:GLU:HA	55:M5:43:GLN:HB2	1.90	0.52
55:M5:52:LYS:HE2	55:M5:52:LYS:O	2.09	0.52
1:13:109:A:C6	1:13:326:G:C6	2.97	0.52
1:13:1259:C:H1'	1:13:1283:G:H21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2I:85:ARG:NE	11:2I:111:ASP:OD2	2.32	0.52
13:4I:10:PRO:HB2	13:4I:18:ALA:HB1	1.90	0.52
20:BI:90:GLN:HA	20:BI:93:GLU:HB2	1.89	0.52
24:3K:58:A:O2'	24:3K:59:U:OP1	2.25	0.52
26:1H:218:A:OP2	59:1H:3689:HOH:O	2.18	0.52
26:1H:247:G:O2'	26:1H:250:G:N7	2.37	0.52
26:1H:1055:G:H1'	26:1H:1085:A:C2	2.45	0.52
26:1H:1553:A:C6	26:1H:1555:G:H1'	2.44	0.52
26:1H:1678:G:H22	26:1H:1989:G:N2	2.07	0.52
26:1H:2564:A:OP1	26:1H:2648:C:H4'	2.10	0.52
27:16:43:C:H5"	52:M8:1:MET:HG2	1.90	0.52
31:31:108:LYS:NZ	31:31:108:LYS:HB3	2.24	0.52
33:51:92:ILE:HD11	33:51:160:LYS:HZ3	1.74	0.52
43:D8:38:LEU:HD21	43:D8:40:LEU:O	2.09	0.52
50:K8:15:LYS:H	50:K8:67:LYS:HE2	1.75	0.52
55:Q8:45:GLY:N	55:Q8:46:ARG:O	2.42	0.52
1:1G:418:C:H42	1:1G:425:G:H1	1.56	0.52
1:1G:484:G:C8	1:1G:486:U:N3	2.77	0.52
1:1G:532:A:H2	3:22:156:ARG:HH22	1.57	0.52
1:1G:957:U:H2'	1:1G:959:A:OP2	2.09	0.52
26:14:760:G:OP1	59:14:3973:HOH:O	2.19	0.52
26:14:972:G:H3'	26:14:973:A:H2'	1.91	0.52
26:14:1053:C:H2'	26:14:1054:A:O4'	2.10	0.52
26:14:1200:C:H5'	59:14:3700:HOH:O	2.09	0.52
26:14:2171:A:H2'	26:14:2172:U:O4'	2.09	0.52
26:14:2469:A:H5'	26:14:2470:G:C8	2.44	0.52
30:29:6:GLY:O	30:29:195:LEU:HD12	2.08	0.52
31:39:64:ILE:HG13	31:39:65:TRP:CD1	2.45	0.52
32:49:95:ARG:HG2	32:49:96:ARG:HG2	1.91	0.52
34:69:76:THR:HG23	34:69:77:LEU:H	1.74	0.52
35:15:66:LYS:HA	35:15:69:GLN:HB3	1.91	0.52
37:35:111:ARG:HG3	37:35:128:HIS:CG	2.44	0.52
47:D5:52:SER:C	47:D5:54:HIS:H	2.17	0.52
1:13:177:C:P	20:BI:65:LYS:HZ3	2.32	0.52
1:13:417:C:H2'	1:13:418:C:C6	2.45	0.52
16:7I:49:LEU:HD12	16:7I:50:LYS:H	1.73	0.52
24:3K:51:U:H2'	24:3K:52:G:C8	2.44	0.52
26:1H:1024:G:O5'	26:1H:1024:G:H8	1.92	0.52
26:1H:1050:A:N6	26:1H:1051:G:O6	2.43	0.52
26:1H:1213:A:N3	26:1H:1238:G:O2'	2.32	0.52
26:1H:1252:G:N3	42:C8:33:ARG:HD2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2212:A:O2'	26:1H:2213:U:OP2	2.26	0.52
26:1H:2243:U:H2'	26:1H:2244:U:H6	1.72	0.52
33:51:74:ASN:CG	33:51:138:LYS:HE2	2.35	0.52
50:K8:15:LYS:HA	50:K8:67:LYS:HZ1	1.74	0.52
1:1G:57:G:H2'	1:1G:58:C:H6	1.75	0.52
1:1G:229:U:H2'	1:1G:230:G:H8	1.75	0.52
1:1G:624:C:H2'	1:1G:625:G:C8	2.43	0.52
1:1G:993:G:H1	1:1G:1045:C:H42	1.57	0.52
1:1G:1369:C:H2'	1:1G:1370:G:O4'	2.09	0.52
4:32:106:TYR:HE1	4:32:112:VAL:C	2.16	0.52
17:8A:53:LEU:HD23	17:8A:82:MET:HE1	1.91	0.52
26:14:241:A:OP1	26:14:243:U:H1'	2.09	0.52
26:14:270(M):U:H4'	26:14:270(N):G:C2	2.45	0.52
26:14:2445:G:OP1	31:39:74:ARG:NH2	2.43	0.52
27:1J:115:G:H8	27:1J:115:G:OP2	1.92	0.52
30:29:151:TYR:HD2	30:29:154:LYS:NZ	2.06	0.52
37:35:30:THR:HG21	37:35:35:HIS:H	1.74	0.52
43:95:1:MET:HG3	43:95:43:GLU:HG2	1.90	0.52
46:C5:52:SER:HA	46:C5:55:TYR:O	2.09	0.52
53:J5:4:HIS:O	53:J5:6:VAL:HG23	2.09	0.52
1:13:522:C:H42	1:13:527:G:H1	1.55	0.52
1:13:606:G:N1	1:13:631:G:H5"	2.24	0.52
1:13:692:U:O2'	1:13:694:A:N7	2.30	0.52
1:13:821:G:C2	1:13:880:C:N3	2.78	0.52
1:13:1133:G:H1'	1:13:1142:G:N2	2.25	0.52
1:13:1376:U:H2'	1:13:1377:A:C8	2.45	0.52
2:1E:9:GLU:O	2:1E:12:GLU:HB2	2.10	0.52
6:5E:75:LEU:HD22	6:5E:79:LEU:CD1	2.39	0.52
15:6I:38:ARG:HG2	15:6I:38:ARG:HH11	1.75	0.52
19:AI:63:THR:OG1	19:AI:64:GLU:N	2.30	0.52
25:4K:23:A:C6	25:4K:24:A:N6	2.77	0.52
26:1H:1993:U:C5	26:1H:1994:C:C5	2.98	0.52
26:1H:2305:A:O2'	32:41:136:ARG:NH1	2.42	0.52
26:1H:2442:C:O2'	26:1H:2443:C:H5'	2.09	0.52
27:16:10:C:H42	27:16:110:G:H1	1.56	0.52
30:21:167:VAL:HG21	30:21:187:ALA:HB3	1.91	0.52
36:68:34:THR:OG1	36:68:35:VAL:N	2.42	0.52
42:C8:8:VAL:HG23	42:C8:11:ARG:NH2	2.24	0.52
53:N8:40:LYS:NZ	53:N8:46:CYS:HB3	2.24	0.52
1:1G:9:G:C6	1:1G:26:A:N6	2.78	0.52
1:1G:593:G:H1	1:1G:646:U:H3	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:673:G:O3'	6:52:87:ARG:NH2	2.43	0.52
1:1G:1027:C:H3'	1:1G:1028:C:H5"	1.92	0.52
1:1G:1250:A:H5'	9:82:67:GLY:HA2	1.92	0.52
10:1A:92:THR:H	10:1A:94:VAL:HG23	1.72	0.52
19:AA:40:ILE:HG12	19:AA:71:LEU:HD23	1.91	0.52
21:1B:6:ARG:HD3	21:1B:15:ARG:NH2	2.25	0.52
26:14:120:U:C2	26:14:149:A:C6	2.97	0.52
26:14:250:G:OP1	37:35:60:MET:HE1	2.09	0.52
26:14:2115:G:H2'	26:14:2116:G:N7	2.25	0.52
26:14:2226:C:H5"	59:14:3859:HOH:O	2.09	0.52
26:14:2334:G:O6	48:E5:75:LEU:HD21	2.10	0.52
26:14:2419:U:H2'	26:14:2420:C:C6	2.44	0.52
26:14:2839:G:H5'	39:55:46:GLY:HA2	1.92	0.52
32:49:25:TYR:HD1	32:49:30:GLU:CD	2.17	0.52
42:85:53:ARG:HA	42:85:56:ASP:HB2	1.90	0.52
47:D5:30:ASN:ND2	47:D5:90:VAL:HB	2.25	0.52
52:I5:17:GLY:N	52:I5:33:VAL:O	2.43	0.52
54:L5:37:LYS:HE3	54:L5:39:ARG:HD3	1.91	0.52
1:13:56:U:H4'	34:69:82:ARG:HH21	1.73	0.52
1:13:443:C:H2'	1:13:444:C:C6	2.45	0.52
1:13:1124:G:H5'	10:1I:35:SER:HB2	1.91	0.52
1:13:1502:A:H2	1:13:1505:G:H1	1.58	0.52
13:4I:39:ILE:HD12	13:4I:56:LEU:HD22	1.91	0.52
26:1H:216:A:H2'	26:1H:217:G:C8	2.44	0.52
26:1H:528:A:C2	26:1H:2043:C:H4'	2.45	0.52
26:1H:1111:A:H5'	33:51:3:ARG:HD3	1.92	0.52
26:1H:1389:G:C2	26:1H:1390:U:C2	2.98	0.52
26:1H:1449:A:H5'	26:1H:1449(A):G:OP2	2.09	0.52
26:1H:1936:A:C8	26:1H:1940:U:O2	2.62	0.52
32:41:173:LEU:HB3	32:41:178:PHE:CD2	2.41	0.52
45:F8:1:MET:HG2	45:F8:2:LYS:H	1.74	0.52
47:H8:58:VAL:O	47:H8:60:GLU:N	2.42	0.52
48:I8:23:VAL:HG13	48:I8:38:VAL:CG2	2.40	0.52
1:1G:452:A:O2'	1:1G:453:A:O5'	2.27	0.52
1:1G:605:U:H2'	1:1G:606:G:O4'	2.09	0.52
1:1G:736:C:H2'	1:1G:737:A:C8	2.44	0.52
1:1G:1145:C:H1'	1:1G:1146:A:N7	2.24	0.52
1:1G:1179:A:OP2	9:82:93:ARG:NH2	2.43	0.52
1:1G:1452:C:H4'	1:1G:1453:G:O5'	2.10	0.52
2:12:73:THR:HB	2:12:96:ARG:H	1.75	0.52
9:82:17:VAL:HG21	9:82:80:GLY:C	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3A:57:LYS:HG3	12:3A:67:THR:HG22	1.91	0.52
26:14:95:G:O2'	50:G5:48:HIS:HB3	2.10	0.52
26:14:176:G:O2'	26:14:177:G:H5'	2.10	0.52
26:14:1018:C:H2'	26:14:1019:U:H6	1.74	0.52
26:14:1159:U:O2'	26:14:1160:G:H5'	2.09	0.52
26:14:1533:C:N3	26:14:1534:G:O2'	2.37	0.52
26:14:1569:A:H5'	29:19:61:LEU:CD2	2.37	0.52
26:14:1821:A:H2'	26:14:1822:G:H8	1.75	0.52
26:14:2069:G:H2'	26:14:2070:G:H5'	1.92	0.52
26:14:2693:A:H2'	26:14:2694:G:C8	2.44	0.52
26:14:2852:G:H2'	26:14:2853:C:C6	2.44	0.52
27:1J:40:U:H1'	27:1J:46:A:N1	2.24	0.52
31:39:34:TRP:CE2	37:35:8:PRO:HB3	2.45	0.52
31:39:143:ALA:HB1	31:39:148:LEU:CB	2.40	0.52
31:39:165:ARG:HG2	31:39:168:ARG:NH1	2.25	0.52
31:39:178:PRO:HG2	31:39:179:GLU:OE1	2.10	0.52
43:95:21:ARG:HG3	43:95:93:GLU:HB2	1.90	0.52
1:13:222:U:H2'	1:13:223:U:H6	1.74	0.52
1:13:342:C:H2'	1:13:343:U:O4'	2.10	0.52
1:13:1278:U:H5"	1:13:1279:A:O4'	2.10	0.52
4:3E:20:TYR:HA	4:3E:26:CYS:SG	2.50	0.52
9:8E:31:GLN:OE1	9:8E:36:TYR:HB2	2.09	0.52
26:1H:748:G:OP2	44:E8:88:ARG:HG3	2.10	0.52
26:1H:1504:C:O2'	26:1H:1505:C:H5'	2.08	0.52
27:16:60:C:H2'	27:16:61:G:C8	2.37	0.52
31:31:181:LEU:HD11	31:31:194:MET:HE1	1.90	0.52
31:31:183:VAL:O	31:31:187:VAL:HG23	2.08	0.52
31:31:198:ALA:O	31:31:201:VAL:N	2.43	0.52
33:51:4:ILE:C	33:51:6:ARG:H	2.17	0.52
41:B8:26:ASP:O	41:B8:49:VAL:HG12	2.09	0.52
1:1G:280:C:H3'	1:1G:281:G:H5'	1.91	0.52
1:1G:569:C:H5"	1:1G:570:G:OP1	2.10	0.52
1:1G:1432:G:OP1	41:75:107:ASP:HB2	2.10	0.52
1:1G:1512:U:H3	1:1G:1523:G:H1	1.56	0.52
3:22:43:LEU:HD12	3:22:68:VAL:HG21	1.92	0.52
4:32:30:LYS:HB2	4:32:35:ARG:HH11	1.74	0.52
7:62:50:ILE:O	7:62:54:THR:HG23	2.09	0.52
20:BA:44:ALA:HA	20:BA:92:LEU:HD21	1.91	0.52
24:3L:8:4SU:O5'	24:3L:8:4SU:H6	2.09	0.52
26:14:51:G:N3	26:14:119:A:C2	2.78	0.52
26:14:239:U:H2'	26:14:240:G:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:958:U:O2	27:1J:89(A):A:O2'	2.23	0.52
26:14:2702:U:OP1	26:14:2702:U:O4'	2.27	0.52
29:19:37:LEU:HA	29:19:38:LYS:CG	2.39	0.52
32:49:113:ARG:NH1	32:49:142:PRO:HB3	2.24	0.52
43:95:12:TYR:OH	43:95:22:VAL:HG23	2.10	0.52
46:C5:62:GLU:CD	46:C5:63:LYS:H	2.17	0.52
47:D5:58:VAL:CG1	47:D5:60:GLU:HB3	2.39	0.52
52:I5:60:GLN:HB2	52:I5:62:ARG:HD2	1.92	0.52
1:13:625:G:H4'	16:7I:16:HIS:CG	2.44	0.52
1:13:1002:G:H1	1:13:1038:C:H42	1.56	0.52
1:13:1356:G:H2'	1:13:1357:A:C8	2.45	0.52
2:1E:69:LEU:O	2:1E:163:PHE:N	2.42	0.52
4:3E:112:VAL:N	4:3E:116:GLN:OE1	2.27	0.52
19:AI:68:GLY:HA3	52:M8:59:PHE:CZ	2.45	0.52
26:1H:771:G:OP1	54:P8:10:ARG:NH1	2.43	0.52
26:1H:880:G:HO2'	26:1H:881:G:P	2.32	0.52
26:1H:1491:G:H2'	26:1H:1492:G:C8	2.44	0.52
26:1H:1742:C:H2'	26:1H:1743:G:O4'	2.10	0.52
26:1H:2135:A:N6	26:1H:2156:G:O2'	2.42	0.52
26:1H:2885:C:O5'	26:1H:2885:C:H6	1.93	0.52
30:21:52:LEU:O	30:21:75:VAL:N	2.31	0.52
39:98:91:GLN:H	39:98:91:GLN:CD	2.18	0.52
47:H8:77:ASP:N	47:H8:84:GLU:HG2	2.24	0.52
50:K8:47:ASN:C	50:K8:49:LYS:H	2.11	0.52
1:1G:791:G:C6	1:1G:792:A:N7	2.78	0.52
1:1G:864:A:H2'	1:1G:865:A:C8	2.45	0.52
1:1G:1123:A:H4'	10:1A:37:PRO:HD2	1.90	0.52
1:1G:1139:G:H4'	1:1G:1140:C:H5'	1.91	0.52
1:1G:1225:A:OP2	1:1G:1225:A:H8	1.93	0.52
2:12:77:ALA:O	2:12:81:VAL:HG23	2.09	0.52
15:6A:61:GLY:O	15:6A:64:ARG:HB3	2.10	0.52
17:8A:83:ASP:OD1	17:8A:84:LEU:N	2.43	0.52
24:3L:35:A:H2	25:4L:14:A:N6	2.08	0.52
26:14:978:G:H5"	26:14:979:G:OP2	2.09	0.52
26:14:1259:G:H2'	26:14:1260:G:H8	1.74	0.52
26:14:1366:A:H2'	26:14:1367:A:O4'	2.10	0.52
26:14:1419:A:H2'	26:14:1421:G:N7	2.24	0.52
26:14:1678:G:N2	26:14:1989:G:H22	2.08	0.52
26:14:2031:A:N3	26:14:2455:G:O2'	2.30	0.52
26:14:2392:A:H2	26:14:2424:C:N4	2.04	0.52
30:29:51:PHE:CE2	30:29:52:LEU:HD23	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:59:TYR:N	31:39:59:TYR:CD1	2.73	0.52
32:49:67:LYS:H	52:I5:6:HIS:CD2	2.28	0.52
32:49:108:ASN:O	52:I5:37:SER:HA	2.09	0.52
37:35:13:ASN:C	37:35:15:ARG:H	2.18	0.52
43:95:76:LYS:HD2	43:95:80:GLN:O	2.10	0.52
47:D5:94:GLU:CD	47:D5:95:PRO:HD2	2.34	0.52
53:J5:4:HIS:O	53:J5:5:PRO:C	2.47	0.52
54:L5:8:ASN:C	54:L5:8:ASN:OD1	2.53	0.52
1:13:376:G:OP1	16:7I:5:ARG:HB2	2.10	0.52
1:13:1149:C:H2'	1:13:1150:U:C6	2.42	0.52
1:13:1292:U:P	7:6E:41:ARG:HH22	2.33	0.52
1:13:1418:A:H2	26:1H:1948:G:N3	2.07	0.52
3:2E:7:PRO:O	3:2E:11:ARG:HG2	2.10	0.52
3:2E:31:HIS:HA	3:2E:34:LEU:HB2	1.91	0.52
3:2E:58:GLU:H	3:2E:65:ALA:HB3	1.73	0.52
7:6E:16:LEU:HD21	9:8E:45:ALA:HB2	1.91	0.52
13:4I:82:MET:O	13:4I:84:ILE:N	2.37	0.52
14:5I:9:LYS:HG3	14:5I:12:ARG:HE	1.73	0.52
16:7I:3:LYS:HG3	16:7I:24:ALA:HB2	1.92	0.52
16:7I:39:TYR:HD1	16:7I:49:LEU:HD13	1.74	0.52
18:9I:53:ARG:HE	18:9I:60:ALA:HA	1.75	0.52
24:3K:34:G:H2'	24:3K:35:A:C8	2.45	0.52
26:1H:1111:A:N3	26:1H:1112:G:H1'	2.25	0.52
26:1H:1389:G:N2	26:1H:1390:U:O2	2.42	0.52
26:1H:1438:U:O2'	26:1H:1439:A:H5'	2.10	0.52
26:1H:1570:A:H2'	26:1H:1571:A:C8	2.44	0.52
26:1H:2749:A:H1'	33:51:63:SER:OG	2.08	0.52
32:41:109:VAL:HG13	52:M8:33:VAL:HG11	1.92	0.52
33:51:83:TYR:CG	33:51:134:SER:HA	2.45	0.52
34:61:104:GLN:HG2	34:61:105:HIS:NE2	2.24	0.52
34:61:129:THR:HG22	34:61:137:PRO:HB3	1.92	0.52
35:58:42:TRP:HA	35:58:48:MET:CE	2.40	0.52
37:78:31:ALA:C	37:78:33:ARG:H	2.15	0.52
39:98:51:LEU:HD22	39:98:66:VAL:HG13	1.91	0.52
1:1G:334:C:H2'	1:1G:335:C:C6	2.45	0.52
1:1G:536:C:H2'	1:1G:537:G:H8	1.75	0.52
1:1G:1251:A:H2'	1:1G:1252:A:C8	2.44	0.52
1:1G:1264:C:O2	1:1G:1272:G:N2	2.43	0.52
1:1G:1350:A:OP2	9:82:118:LYS:HE3	2.10	0.52
26:14:302:C:OP2	46:C5:73:ARG:NH1	2.35	0.52
26:14:753:C:H2'	26:14:754:C:H6	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:755:C:H2'	26:14:756:C:H6	1.74	0.52
26:14:824:A:H1'	26:14:2358:G:N7	2.24	0.52
26:14:1069:A:H2'	26:14:1073:A:N7	2.25	0.52
26:14:1147:C:H2'	26:14:1148:A:H8	1.75	0.52
26:14:1154:G:OP1	42:85:58:ARG:HD3	2.10	0.52
26:14:1399:C:H2'	26:14:1400:G:H8	1.75	0.52
26:14:2033:A:H8	59:14:3947:HOH:O	1.91	0.52
26:14:2147:G:C4	26:14:2148:G:H1'	2.45	0.52
26:14:2291:U:H3	26:14:2341:G:H1	1.56	0.52
29:19:181:GLU:HA	29:19:272:ALA:HB1	1.92	0.52
30:29:31:CYS:HB2	30:29:49:LEU:HB3	1.92	0.52
30:29:101:ARG:HD2	30:29:169:ASN:ND2	2.25	0.52
30:29:179:GLU:HB2	30:29:181:LEU:HD22	1.92	0.52
34:69:77:LEU:HD12	34:69:78:THR:H	1.75	0.52
35:15:35:ARG:HB2	35:15:42:TRP:CH2	2.45	0.52
36:25:68:GLU:H	36:25:68:GLU:CD	2.18	0.52
37:35:6:LEU:O	37:35:7:ARG:HG2	2.10	0.52
37:35:122:PRO:HB3	37:35:141:ALA:HB1	1.92	0.52
38:45:79:LEU:HD12	38:45:80:GLU:OE1	2.10	0.52
40:65:86:ALA:O	40:65:87:PHE:HB2	2.10	0.52
1:13:375:U:O3'	16:7I:6:LEU:HB2	2.10	0.52
1:13:452:A:O2'	1:13:453:A:O4'	2.27	0.52
1:13:947:G:C5	1:13:948:C:C4	2.98	0.52
1:13:990:C:H2'	1:13:991:U:C6	2.45	0.52
6:5E:39:LYS:HB3	6:5E:62:TRP:CZ3	2.45	0.52
7:6E:65:ALA:HB1	7:6E:127:ALA:HB3	1.92	0.52
14:5I:8:GLU:O	14:5I:11:LYS:HG3	2.10	0.52
26:1H:1050:A:H1'	26:1H:2751:G:C8	2.45	0.52
26:1H:1102:C:H2'	26:1H:1103:A:H8	1.74	0.52
26:1H:1533:C:H3'	26:1H:1534:G:C5'	2.39	0.52
26:1H:1534:G:N2	26:1H:1538:G:H22	2.05	0.52
26:1H:2360:A:OP1	55:Q8:46:ARG:NH2	2.43	0.52
30:21:48:GLN:OE1	30:21:77:ILE:HG21	2.10	0.52
38:88:2:LEU:HB3	38:88:70:PRO:HG3	1.91	0.52
43:D8:43:GLU:HB2	43:D8:44:LYS:CE	2.40	0.52
44:E8:65:LEU:HD12	44:E8:68:ARG:HD3	1.92	0.52
51:L8:31:LEU:HB3	51:L8:32:GLN:OE1	2.09	0.52
1:1G:826:C:H5'	8:72:12:ARG:NH2	2.21	0.52
1:1G:1013:G:O2'	1:1G:1014:A:N7	2.33	0.52
1:1G:1256:A:OP2	3:22:26:LYS:NZ	2.35	0.52
4:32:126:ILE:HG22	4:32:127:THR:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:42:11:ILE:HB	5:42:31:LEU:HB3	1.91	0.52
9:82:87:GLN:OE1	9:82:88:TYR:N	2.43	0.52
15:6A:3:ILE:H	15:6A:3:ILE:HD13	1.74	0.52
19:AA:66:MET:N	19:AA:67:VAL:HB	2.25	0.52
24:3L:19:G:N1	26:14:2112:G:H4'	2.25	0.52
26:14:270(Q):C:H5"	34:69:45:LYS:HE3	1.90	0.52
26:14:907:U:O2'	38:45:101:ARG:NH2	2.43	0.52
26:14:920:G:H2'	26:14:921:G:C8	2.45	0.52
26:14:973:A:OP2	59:14:3959:HOH:O	2.19	0.52
26:14:1163:G:H2'	26:14:1164:G:H8	1.75	0.52
26:14:2228:G:OP1	29:19:261:LYS:NZ	2.42	0.52
26:14:2286:A:H5'	26:14:2286:A:N3	2.25	0.52
26:14:2648:C:H2'	26:14:2649:U:C6	2.45	0.52
26:14:2844:G:H3'	26:14:2845:G:H8	1.75	0.52
31:39:165:ARG:HA	31:39:168:ARG:HD2	1.92	0.52
35:15:34:LEU:O	35:15:49:GLY:HA3	2.10	0.52
38:45:132:VAL:HG21	47:D5:81:ARG:NE	2.24	0.52
45:B5:55:ASN:HB2	45:B5:80:ILE:CG1	2.39	0.52
1:13:438:G:H4'	4:3E:123:HIS:CD2	2.45	0.51
1:13:772:U:H2'	1:13:773:G:C8	2.42	0.51
1:13:778:G:H8	1:13:778:G:O5'	1.93	0.51
1:13:1410:G:C4	1:13:1491:G:N2	2.79	0.51
2:1E:84:GLU:HB3	2:1E:219:VAL:HG21	1.93	0.51
9:8E:89:ASN:O	9:8E:91:ASP:N	2.42	0.51
22:1K:52:C:N4	22:1K:53:G:O6	2.43	0.51
24:3K:6:G:N2	24:3K:68:C:H1'	2.25	0.51
26:1H:1087:G:C5	26:1H:1089:G:H1'	2.45	0.51
26:1H:2244:U:O2'	26:1H:2245:U:H5'	2.10	0.51
33:51:33:LEU:HD21	33:51:136:ILE:HB	1.91	0.51
48:I8:37:LEU:HD11	48:I8:61:ALA:N	2.24	0.51
1:1G:9:G:N1	1:1G:26:A:N6	2.58	0.51
1:1G:313:A:H2'	1:1G:314:C:C6	2.45	0.51
1:1G:935:A:H2'	1:1G:936:C:C6	2.44	0.51
4:32:23:GLY:N	4:32:26:CYS:HB2	2.16	0.51
10:1A:30:SER:OG	10:1A:81:THR:HG22	2.10	0.51
14:5A:12:ARG:HD3	14:5A:13:THR:H	1.75	0.51
26:14:161:U:H5'	26:14:171:G:N2	2.25	0.51
26:14:488:G:H1'	26:14:492:A:N6	2.25	0.51
26:14:654(M):C:H2'	26:14:654(N):G:C8	2.45	0.51
26:14:972:G:OP2	26:14:973:A:O2'	2.23	0.51
26:14:1147:C:H2'	26:14:1148:A:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1410:G:H2'	26:14:1411:C:C6	2.45	0.51
26:14:1423:G:C4	26:14:1424:G:C8	2.99	0.51
26:14:1425:G:N2	26:14:1573:G:N7	2.59	0.51
26:14:1599:C:H2'	26:14:1600:C:H6	1.73	0.51
26:14:1785:A:H4'	26:14:1982:C:O2'	2.09	0.51
26:14:1786:A:H4'	26:14:1787:A:OP2	2.10	0.51
26:14:2331:G:H4'	48:E5:43:THR:H	1.75	0.51
26:14:2850:A:C2	26:14:2851:A:C4	2.98	0.51
27:1J:9:G:OP1	40:65:25:ARG:NH2	2.43	0.51
30:29:38:THR:HG23	30:29:41:LYS:HG2	1.92	0.51
35:15:36:GLY:O	35:15:39:ARG:N	2.40	0.51
47:D5:5:LEU:HD23	47:D5:7:ALA:H	1.74	0.51
1:13:77:C:H2'	1:13:78:G:H5"	1.92	0.51
1:13:186(E):C:N4	1:13:191(B):G:H1	2.06	0.51
1:13:1352:C:H2'	1:13:1353:G:H8	1.74	0.51
1:13:1396:A:H4'	1:13:1397:C:H5"	1.92	0.51
6:5E:44:GLY:HA2	6:5E:59:TYR:CZ	2.45	0.51
7:6E:28:ASN:HA	7:6E:31:MET:HE3	1.93	0.51
9:8E:48:GLU:N	9:8E:49:PRO:HD2	2.25	0.51
10:1I:32:ALA:HB3	10:1I:76:ASN:O	2.09	0.51
15:6I:18:PHE:HB2	15:6I:19:PRO:CD	2.38	0.51
26:1H:270(E):G:H1	26:1H:270(U):C:N4	2.08	0.51
26:1H:507:A:H5"	26:1H:508:G:H5'	1.92	0.51
26:1H:675:A:C8	26:1H:804:A:C6	2.99	0.51
26:1H:728:G:H4'	29:11:13:ARG:HD3	1.92	0.51
26:1H:945:A:C4	26:1H:2448:A:C2	2.99	0.51
26:1H:1517:G:H2'	26:1H:1518:C:C6	2.44	0.51
29:11:46:GLN:C	29:11:48:ARG:H	2.18	0.51
31:31:9:ILE:HG13	31:31:123:LEU:HG	1.92	0.51
32:41:5:VAL:H	52:M8:25:TYR:HE2	1.57	0.51
39:98:21:TYR:OH	39:98:43:GLU:HG2	2.09	0.51
45:F8:26:TYR:CD1	45:F8:92:LEU:HD12	2.45	0.51
47:H8:44:PHE:CE2	47:H8:86:VAL:HG11	2.45	0.51
49:J8:78:LYS:HE3	49:J8:78:LYS:H	1.76	0.51
50:K8:24:LEU:HD13	50:K8:60:LEU:HD13	1.91	0.51
50:K8:64:LEU:O	50:K8:68:ARG:HG3	2.09	0.51
52:M8:39:CYS:C	52:M8:41:PRO:HD3	2.35	0.51
1:1G:1342:C:H2'	1:1G:1343:G:C8	2.45	0.51
1:1G:1481:U:H2'	1:1G:1482:G:H8	1.75	0.51
3:22:72:LYS:HZ2	3:22:75:VAL:HG23	1.74	0.51
5:42:81:GLU:HB3	5:42:90:VAL:HG13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:863:A:H2'	26:14:864:G:C8	2.44	0.51
26:14:880:G:N2	26:14:897:C:O2	2.36	0.51
26:14:1027:A:C5'	27:1J:88:C:H41	2.22	0.51
26:14:1665:A:H1'	36:25:1:MET:HG2	1.92	0.51
26:14:1681:G:N2	26:14:1762:A:H3'	2.26	0.51
26:14:2358:G:H2'	26:14:2359:C:C6	2.42	0.51
36:25:10:VAL:HG13	36:25:17:ARG:C	2.35	0.51
46:C5:19:LYS:HG3	46:C5:20:TYR:CD1	2.43	0.51
49:F5:52:ARG:HG3	49:F5:56:GLN:C	2.36	0.51
50:G5:33:MET:O	50:G5:37:PHE:HD1	1.93	0.51
1:13:227:G:N2	16:7I:62:VAL:O	2.41	0.51
1:13:650:G:C2	1:13:651:C:C6	2.99	0.51
8:7E:6:ILE:HD12	8:7E:6:ILE:H	1.76	0.51
10:1I:96:ILE:HD13	10:1I:96:ILE:H	1.75	0.51
13:4I:69:GLU:HG3	32:41:118:ARG:HH22	1.75	0.51
16:7I:26:ARG:HH21	16:7I:31:LYS:HB3	1.75	0.51
19:AI:44:MET:O	19:AI:47:HIS:HB2	2.09	0.51
26:1H:282:A:H2'	26:1H:282:A:N3	2.26	0.51
26:1H:548:A:H8	26:1H:548:A:O5'	1.93	0.51
26:1H:580:C:H2'	26:1H:581:C:H6	1.76	0.51
26:1H:760:G:H4'	26:1H:1776:G:OP1	2.11	0.51
26:1H:876:C:H2'	26:1H:877:U:O4'	2.09	0.51
26:1H:1266:G:O4'	44:E8:15:ARG:NH2	2.43	0.51
26:1H:1477:A:C6	26:1H:1517:G:N1	2.78	0.51
26:1H:2128:C:H2'	26:1H:2129:C:H6	1.74	0.51
26:1H:2240:C:O2'	26:1H:2241:A:H5'	2.11	0.51
26:1H:2572:A:N7	30:21:145:LYS:HB2	2.26	0.51
40:A8:88:ASP:C	40:A8:90:GLY:H	2.19	0.51
42:C8:68:ALA:O	42:C8:71:GLN:HB2	2.09	0.51
45:F8:24:GLY:O	45:F8:83:VAL:HG22	2.09	0.51
54:P8:18:PHE:C	54:P8:18:PHE:CD1	2.88	0.51
1:1G:155:C:H2'	1:1G:156:G:H8	1.75	0.51
1:1G:596:C:H2'	1:1G:597:G:C8	2.41	0.51
1:1G:881:G:H2'	1:1G:882:C:O4'	2.10	0.51
8:72:27:PRO:O	8:72:32:LYS:HD3	2.09	0.51
10:1A:61:GLU:HG3	14:5A:58:LYS:HZ3	1.75	0.51
19:AA:66:MET:HE1	52:I5:55:ARG:HA	1.92	0.51
26:14:310:A:O3'	26:14:311:A:H2'	2.10	0.51
26:14:1641:A:H5"	26:14:1642:G:OP2	2.10	0.51
26:14:1676:A:H8	26:14:1676:A:O5'	1.93	0.51
26:14:1742:C:H5'	26:14:1743:G:OP2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:52:ILE:HD11	32:49:153:ARG:NH1	2.25	0.51
37:35:90:ARG:HG3	37:35:91:PHE:CD2	2.45	0.51
1:13:131:C:H2'	1:13:132:C:C6	2.46	0.51
1:13:273:A:H1'	17:8I:16:GLN:HE21	1.74	0.51
1:13:552:U:H4'	12:3I:86:ARG:HG2	1.93	0.51
1:13:902:G:O2'	1:13:903:G:H5'	2.10	0.51
1:13:1404:C:H2'	1:13:1405:G:C8	2.45	0.51
4:3E:92:VAL:HG12	4:3E:96:LEU:CD2	2.40	0.51
13:4I:108:ARG:HG3	13:4I:108:ARG:NH1	2.19	0.51
15:6I:16:ALA:HB1	15:6I:21:ASP:HB3	1.93	0.51
19:AI:7:LYS:HB3	19:AI:7:LYS:NZ	2.25	0.51
20:BI:69:GLY:O	20:BI:73:HIS:NE2	2.44	0.51
26:1H:376:C:P	59:1H:3664:HOH:O	2.68	0.51
26:1H:780:G:H21	26:1H:783:A:N6	2.08	0.51
26:1H:1790:C:H5"	26:1H:1791:A:OP1	2.10	0.51
33:51:87:LEU:HD11	33:51:148:ILE:HB	1.92	0.51
43:D8:1:MET:HE1	43:D8:99:ILE:HB	1.93	0.51
56:2L:48:U:O2'	56:2L:49:C:OP2	2.21	0.51
26:14:654(J):A:H5'	26:14:654(K):C:OP2	2.11	0.51
26:14:1198:U:H2'	26:14:1199:U:C6	2.45	0.51
26:14:1933:G:H22	26:14:1968:G:H1'	1.75	0.51
26:14:2019:A:N7	53:J5:9:LYS:HE3	2.25	0.51
26:14:2065:C:O2'	26:14:2066:C:H5'	2.11	0.51
26:14:2215:G:H8	26:14:2215:G:O5'	1.93	0.51
29:19:37:LEU:O	29:19:37:LEU:HD12	2.10	0.51
36:25:64:ARG:NH1	36:25:83:ALA:HB2	2.25	0.51
39:55:33:ARG:HG3	39:55:115:GLU:HB2	1.91	0.51
40:65:69:VAL:O	40:65:72:ALA:HB3	2.10	0.51
43:95:21:ARG:HE	43:95:91:TYR:HB3	1.75	0.51
45:B5:63:LYS:O	45:B5:63:LYS:HD2	2.10	0.51
45:B5:67:GLY:C	45:B5:69:TYR:H	2.17	0.51
47:D5:76:LEU:HA	47:D5:83:PRO:HA	1.93	0.51
52:I5:61:ARG:H	52:I5:62:ARG:CZ	2.23	0.51
1:13:51:A:C6	1:13:353:A:C2	2.99	0.51
1:13:79:G:H2'	1:13:79:G:N3	2.26	0.51
1:13:129(A):G:N2	1:13:188:U:HO2'	2.09	0.51
1:13:664:G:N2	1:13:741:G:H1	2.04	0.51
1:13:1048:G:H5"	14:5I:3:ARG:HG3	1.92	0.51
1:13:1059:C:O2	10:1I:53:PRO:HG3	2.11	0.51
1:13:1226:C:H4'	1:13:1227:A:OP1	2.10	0.51
12:3I:79:GLU:OE2	12:3I:80:HIS:NE2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4I:11:ARG:HG3	13:4I:12:ASN:H	1.75	0.51
13:4I:54:VAL:HG22	13:4I:57:ARG:HH22	1.75	0.51
18:9I:59:SER:OG	18:9I:60:ALA:N	2.42	0.51
24:3K:71:G:O2'	26:1H:1851:U:O3'	2.23	0.51
26:1H:1161:C:O2'	43:D8:8:GLY:HA2	2.10	0.51
26:1H:1952:A:C6	36:68:22:ILE:HD12	2.46	0.51
26:1H:2626:C:H2'	26:1H:2627:G:O4'	2.09	0.51
26:1H:2850:A:C2	26:1H:2851:A:C4	2.98	0.51
26:1H:2852:G:C6	26:1H:2853:C:C4	2.99	0.51
31:31:164:ARG:HG3	31:31:175:THR:OG1	2.10	0.51
34:61:131:LYS:HD3	34:61:131:LYS:N	2.25	0.51
38:88:39:PRO:HA	38:88:97:VAL:O	2.10	0.51
39:98:81:ASP:OD1	39:98:81:ASP:N	2.43	0.51
44:E8:17:VAL:HG22	44:E8:76:VAL:HG11	1.91	0.51
45:F8:1:MET:C	45:F8:3:THR:H	2.18	0.51
50:K8:41:ILE:HD12	50:K8:44:LEU:HG	1.93	0.51
55:Q8:22:VAL:HG22	55:Q8:47:LYS:NZ	2.26	0.51
55:Q8:39:LYS:HG2	55:Q8:40:GLU:N	2.24	0.51
1:1G:748:C:H4'	1:1G:749:C:O5'	2.10	0.51
4:32:173:TRP:HZ3	4:32:193:ASP:HB3	1.75	0.51
5:42:61:TYR:HA	5:42:64:ARG:CB	2.40	0.51
11:2A:100:ALA:C	11:2A:102:GLY:H	2.19	0.51
18:9A:19:LYS:HG3	18:9A:20:ALA:H	1.76	0.51
24:3L:70:G:H2'	24:3L:71:G:O4'	2.11	0.51
26:14:301:G:C4	26:14:302:C:C5	2.99	0.51
26:14:1315:C:O2'	26:14:1392:A:N3	2.40	0.51
26:14:1405:U:H2'	26:14:1406:U:C6	2.46	0.51
26:14:1510:A:H2'	26:14:1511:A:H8	1.74	0.51
26:14:1813:G:O2'	29:19:42:GLY:O	2.28	0.51
26:14:2845:G:H5"	41:75:54:ARG:O	2.10	0.51
31:39:143:ALA:O	31:39:148:LEU:HB2	2.10	0.51
31:39:152:GLU:HA	31:39:190:GLU:OE2	2.11	0.51
38:45:19:GLY:O	38:45:98:LYS:HB3	2.10	0.51
43:95:21:ARG:HA	43:95:93:GLU:HA	1.91	0.51
47:D5:152:ALA:N	47:D5:167:PRO:O	2.43	0.51
1:13:57:G:H2'	1:13:58:C:C6	2.46	0.51
2:1E:8:LYS:H	2:1E:8:LYS:HE2	1.75	0.51
23:2K:70:C:H2'	23:2K:71:G:O4'	2.10	0.51
26:1H:78:A:H2'	26:1H:79:G:H8	1.75	0.51
26:1H:193:U:H5	59:1H:3624:HOH:O	1.94	0.51
26:1H:195:A:H4'	26:1H:251:A:O2'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:2:PRO:HG2	52:M8:25:TYR:CE1	2.46	0.51
37:78:16:ARG:HG2	37:78:17:LYS:H	1.75	0.51
41:B8:3:ARG:HG3	41:B8:3:ARG:O	2.10	0.51
41:B8:3:ARG:HG3	41:B8:7:ILE:HG13	1.93	0.51
43:D8:53:GLU:HG3	43:D8:54:GLY:N	2.24	0.51
49:J8:87:PRO:O	49:J8:91:LYS:N	2.42	0.51
55:Q8:35:GLN:C	55:Q8:37:SER:N	2.68	0.51
1:1G:216:G:O2'	1:1G:217:C:O4'	2.20	0.51
1:1G:1053:G:O2'	1:1G:1054:C:P	2.69	0.51
1:1G:1160:G:N7	1:1G:1181:G:N1	2.47	0.51
1:1G:1171:G:H2'	1:1G:1172:C:C6	2.45	0.51
26:14:814:C:N3	26:14:1194:A:C2	2.78	0.51
26:14:1033:U:H3'	26:14:1033:U:H6	1.76	0.51
26:14:1188:U:O2'	26:14:1189:A:H5'	2.10	0.51
26:14:2360:A:H2'	26:14:2361:A:O4'	2.11	0.51
31:39:25:PRO:HG3	31:39:28:ILE:HG23	1.92	0.51
32:49:174:GLU:HB2	32:49:180:PHE:HE2	1.75	0.51
34:69:112:LYS:CA	34:69:114:LEU:H	2.20	0.51
35:15:121:LYS:HB3	35:15:123:TYR:CE2	2.44	0.51
36:25:104:ARG:NH1	41:75:36:GLU:HB3	2.25	0.51
46:C5:87:LYS:HB2	46:C5:96:ILE:CD1	2.41	0.51
47:D5:79:ARG:HD2	47:D5:80:ARG:NH1	2.26	0.51
47:D5:152:ALA:HB2	47:D5:169:GLU:O	2.10	0.51
48:E5:21:LEU:HD11	48:E5:41:ARG:NH1	2.25	0.51
1:13:406:G:H2'	1:13:407:G:H8	1.74	0.51
1:13:437:U:H5'	4:3E:155:LEU:HD21	1.92	0.51
1:13:534:U:H5"	1:13:535:A:OP2	2.09	0.51
1:13:540:G:H2'	1:13:541:G:O4'	2.11	0.51
5:4E:101:ILE:O	5:4E:120:THR:HG23	2.10	0.51
19:AI:40:ILE:HG12	19:AI:41:VAL:N	2.25	0.51
26:1H:273(D):C:H2'	26:1H:273(E):U:C6	2.45	0.51
26:1H:581:C:H2'	26:1H:582:G:H8	1.74	0.51
26:1H:620:G:H21	26:1H:620:G:P	2.33	0.51
26:1H:2050:C:H1'	30:21:156:MET:HE2	1.92	0.51
26:1H:2875:C:C1'	41:B8:5:ALA:HB2	2.37	0.51
28:71:52:ARG:H	28:71:52:ARG:HD2	1.76	0.51
35:58:94:HIS:C	35:58:95:PRO:O	2.51	0.51
37:78:96:THR:O	37:78:98:GLU:N	2.43	0.51
46:G8:54:LYS:O	46:G8:55:TYR:CG	2.64	0.51
46:G8:87:LYS:O	46:G8:94:LYS:HB2	2.11	0.51
50:K8:5:GLU:HA	50:K8:6:VAL:C	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:44:G:H1	1:1G:398:C:H42	1.57	0.51
1:1G:622:A:H2'	1:1G:623:C:O4'	2.11	0.51
1:1G:1134:G:C6	1:1G:1135:U:C2	2.98	0.51
1:1G:1177:G:O2'	1:1G:1178:G:O4'	2.28	0.51
4:32:63:LYS:HD2	4:32:198:VAL:HG12	1.93	0.51
4:32:134:ASP:O	4:32:136:PRO:HD3	2.10	0.51
5:42:106:PRO:O	5:42:110:LEU:HG	2.11	0.51
7:62:71:PRO:HD3	7:62:103:TRP:HZ3	1.76	0.51
7:62:92:SER:HB2	7:62:95:ARG:H	1.76	0.51
9:82:48:GLU:HG3	9:82:101:PHE:HE2	1.76	0.51
26:14:32:C:O2'	26:14:33:U:H5'	2.10	0.51
26:14:144:C:H2'	26:14:145:G:C8	2.43	0.51
26:14:273(F):C:H3'	26:14:274:G:C5'	2.39	0.51
26:14:718:A:H3'	26:14:719:C:C6	2.46	0.51
26:14:800:A:H8	26:14:800:A:OP1	1.94	0.51
26:14:1226:G:H4'	43:95:83:ARG:HB3	1.93	0.51
26:14:2120:G:H2'	26:14:2121:G:C8	2.46	0.51
26:14:2693:A:H2'	26:14:2694:G:H8	1.75	0.51
26:14:2696:U:H2'	26:14:2697:G:H8	1.76	0.51
26:14:2736:G:H2'	26:14:2737:G:H8	1.76	0.51
27:1J:9:G:P	40:65:25:ARG:HH22	2.34	0.51
31:39:178:PRO:HB3	31:39:198:ALA:HB1	1.93	0.51
34:69:3:VAL:HG12	34:69:38:LEU:HA	1.93	0.51
37:35:107:LYS:O	37:35:109:GLY:N	2.43	0.51
43:95:87:HIS:ND1	43:95:87:HIS:O	2.44	0.51
49:F5:91:LYS:HZ3	49:F5:91:LYS:HA	1.76	0.51
52:I5:37:SER:OG	52:I5:38:LYS:N	2.43	0.51
1:13:276:G:O3'	17:8I:68:ARG:NH1	2.40	0.51
1:13:833:U:H3	1:13:853:G:H1	1.59	0.51
1:13:1162:C:H2'	1:13:1163:C:C6	2.46	0.51
2:1E:98:LEU:H	2:1E:101:MET:HE3	1.76	0.51
2:1E:160:ASP:O	2:1E:183:PRO:HD2	2.11	0.51
4:3E:162:LEU:O	4:3E:165:MET:HB3	2.11	0.51
7:6E:108:ALA:O	7:6E:119:ARG:HB3	2.10	0.51
8:7E:122:ARG:O	8:7E:126:LYS:HG2	2.10	0.51
12:3I:76:ASN:ND2	12:3I:108:ALA:HB2	2.25	0.51
14:5I:6:LEU:HD22	14:5I:23:ARG:HH22	1.75	0.51
26:1H:355:G:H2'	26:1H:356:G:C8	2.46	0.51
26:1H:390:A:C6	37:78:71:VAL:HG21	2.46	0.51
26:1H:547:A:C5	26:1H:548:A:N6	2.79	0.51
26:1H:686:G:H1	54:P8:16:HIS:CD2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1640:C:H2'	26:1H:1641:A:C8	2.46	0.51
26:1H:2033:A:H8	59:1H:3998:HOH:O	1.92	0.51
26:1H:2852:G:C6	26:1H:2853:C:N3	2.79	0.51
27:16:63:G:C2	27:16:64:C:C2	2.99	0.51
30:21:51:PHE:O	30:21:74:PRO:HB2	2.11	0.51
34:61:81:VAL:HG21	34:61:88:ILE:HD13	1.93	0.51
34:61:89:TYR:O	34:61:121:LYS:NZ	2.44	0.51
1:1G:458:C:H2'	1:1G:464:G:H8	1.76	0.51
1:1G:571:U:H3	1:1G:864:A:H61	1.59	0.51
1:1G:1161:C:O2'	1:1G:1162:C:H5'	2.10	0.51
3:22:91:LEU:O	3:22:95:THR:OG1	2.23	0.51
9:82:48:GLU:HG3	9:82:101:PHE:CE2	2.45	0.51
12:3A:11:VAL:HG22	17:8A:29:HIS:CD2	2.44	0.51
14:5A:43:CYS:HA	14:5A:46:GLU:OE2	2.10	0.51
26:14:177:G:H3'	26:14:178:G:C8	2.46	0.51
26:14:705:A:H1'	29:19:9:TYR:CD2	2.46	0.51
26:14:986:C:O2'	26:14:1001:A:O2'	2.13	0.51
26:14:1789:A:H2'	26:14:1790:C:O4'	2.10	0.51
26:14:2012:G:OP1	44:A5:11:ARG:NH2	2.41	0.51
26:14:2853:C:O2'	26:14:2854:G:H5'	2.10	0.51
30:29:5:LEU:HD21	30:29:49:LEU:HB2	1.93	0.51
33:59:154:PRO:HB3	33:59:162:ILE:O	2.11	0.51
42:85:83:LEU:HD23	42:85:88:ILE:HD12	1.93	0.51
45:B5:12:VAL:HG13	45:B5:27:THR:O	2.11	0.51
1:13:735:C:H2'	1:13:736:C:C6	2.45	0.51
1:13:994:A:C8	1:13:1216:G:H4'	2.46	0.51
1:13:1285:A:H4'	1:13:1286:A:C5'	2.41	0.51
4:3E:62:GLN:HB3	4:3E:66:ARG:NH1	2.26	0.51
20:BI:64:ASP:HA	20:BI:67:ALA:HB3	1.92	0.51
26:1H:94:G:H2'	26:1H:95:G:O4'	2.11	0.51
26:1H:1748:G:H2'	26:1H:1749:A:C8	2.46	0.51
26:1H:1791:A:C8	26:1H:1792:G:C8	2.99	0.51
26:1H:2127:G:H2'	26:1H:2128:C:O4'	2.11	0.51
32:41:38:VAL:HG22	32:41:93:THR:HG23	1.93	0.51
42:C8:34:LYS:HA	42:C8:34:LYS:HE3	1.93	0.51
42:C8:90:VAL:HG22	43:D8:39:LEU:HB3	1.92	0.51
44:E8:17:VAL:C	44:E8:19:LEU:N	2.68	0.51
46:G8:40:GLU:HA	46:G8:42:VAL:H	1.76	0.51
1:1G:832:C:N3	1:1G:855:G:C6	2.79	0.51
1:1G:980:C:H3'	1:1G:981:U:C6	2.46	0.51
2:12:17:PHE:CZ	2:12:203:GLY:HA2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:30:LYS:CB	4:32:35:ARG:HD2	2.41	0.51
13:4A:94:ARG:HH22	19:AA:78:ARG:HH12	1.58	0.51
26:14:29:U:H2'	26:14:30:G:H8	1.74	0.51
26:14:322:A:O5'	31:39:169:ASN:ND2	2.43	0.51
26:14:1322:A:N1	26:14:1333:C:O2'	2.37	0.51
26:14:1572:A:H8	26:14:1572:A:O5'	1.94	0.51
26:14:2510:C:H2'	26:14:2511:U:C6	2.46	0.51
30:29:105:THR:HG21	30:29:164:ARG:CZ	2.40	0.51
43:95:48:GLY:HA3	43:95:51:VAL:C	2.36	0.51
46:C5:63:LYS:HA	46:C5:63:LYS:HZ3	1.75	0.51
48:E5:23:VAL:HG13	48:E5:38:VAL:HG22	1.92	0.51
1:13:792:A:H4'	1:13:793:U:O5'	2.10	0.51
1:13:823:G:C2	1:13:878:G:C2	2.99	0.51
1:13:946:A:O2'	1:13:1333:A:H2'	2.11	0.51
1:13:1315:U:H2'	1:13:1316:G:O4'	2.11	0.51
6:5E:75:LEU:HD22	6:5E:79:LEU:HD11	1.93	0.51
10:1I:54:PHE:CZ	10:1I:55:LYS:NZ	2.71	0.51
13:4I:82:MET:C	13:4I:84:ILE:H	2.17	0.51
26:1H:20:C:H2'	26:1H:21:A:H8	1.76	0.51
26:1H:32:C:O2'	26:1H:33:U:H5'	2.10	0.51
26:1H:71:A:OP1	26:1H:72:U:H2'	2.11	0.51
26:1H:1260:G:C6	26:1H:1261:C:C4	2.99	0.51
26:1H:1319:G:C2'	26:1H:1320:C:H5'	2.41	0.51
26:1H:1662:C:O2'	26:1H:2687:U:OP1	2.27	0.51
26:1H:1825:A:O4'	29:11:254:THR:HG21	2.10	0.51
26:1H:1887:C:H2'	26:1H:1888:G:H5'	1.92	0.51
26:1H:1983:C:OP1	59:1H:3906:HOH:O	2.20	0.51
26:1H:2025:C:N4	59:1H:3706:HOH:O	2.44	0.51
26:1H:2302:G:C6	26:1H:2315:G:C6	2.99	0.51
26:1H:2629:A:OP1	26:1H:2629:A:H4'	2.10	0.51
27:16:78:A:C2	27:16:99:A:C4	2.99	0.51
30:21:105:THR:HG22	30:21:106:GLY:H	1.75	0.51
33:51:23:ARG:HH22	33:51:25:LYS:NZ	2.09	0.51
34:61:128:LEU:O	34:61:138:ILE:N	2.43	0.51
46:G8:80:GLY:C	46:G8:81:LYS:HG3	2.36	0.51
46:G8:89:PHE:HD1	46:G8:90:LEU:N	2.09	0.51
49:J8:41:ARG:NH1	49:J8:43:TYR:HE1	2.09	0.51
1:1G:143:A:H5"	1:1G:144:G:H5'	1.92	0.51
1:1G:352:C:O2	1:1G:352:C:H2'	2.11	0.51
1:1G:973:G:H3'	1:1G:974:A:H5"	1.92	0.51
1:1G:1157:A:H61	1:1G:1178:G:H21	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1387:G:H2'	1:1G:1388:C:H6	1.76	0.51
3:22:8:ILE:HD11	3:22:184:TYR:HB3	1.93	0.51
4:32:82:ALA:HA	4:32:85:LYS:HB2	1.91	0.51
19:AA:11:VAL:HG13	19:AA:39:THR:HB	1.93	0.51
26:14:360:G:H2'	26:14:361:G:C8	2.46	0.51
26:14:601:C:OP1	31:39:108:LYS:HE2	2.10	0.51
26:14:662:G:H5'	37:35:15:ARG:CA	2.41	0.51
26:14:1113:U:H5'	33:59:2:SER:HA	1.92	0.51
26:14:1796:U:H2'	26:14:1797:C:C6	2.46	0.51
26:14:1819:A:H4'	26:14:1820:U:O5'	2.10	0.51
30:29:26:ILE:HG22	30:29:27:LEU:C	2.36	0.51
32:49:35:GLU:OE2	32:49:160:VAL:HB	2.11	0.51
32:49:161:THR:HG22	32:49:163:ALA:H	1.76	0.51
36:25:7:TYR:CZ	36:25:44:LYS:HG3	2.46	0.51
49:F5:64:ALA:HA	49:F5:67:ILE:HG12	1.93	0.51
52:I5:48:ARG:NH1	52:I5:49:PHE:O	2.44	0.51
1:13:537:G:P	12:3I:113:ARG:HH22	2.33	0.50
1:13:828:A:N7	1:13:859:A:C8	2.78	0.50
2:1E:6:THR:OG1	2:1E:7:VAL:N	2.44	0.50
14:5I:4:LYS:O	14:5I:7:ILE:HG13	2.11	0.50
24:3K:23:A:C6	24:3K:24:G:C6	3.00	0.50
26:1H:195:A:C8	59:1H:4369:HOH:O	2.60	0.50
26:1H:1972:A:H2'	26:1H:1973:G:H8	1.75	0.50
26:1H:2213:U:HO2'	26:1H:2215:G:P	2.34	0.50
30:21:67:PHE:C	30:21:69:LYS:H	2.16	0.50
31:31:167:ALA:HB1	31:31:173:VAL:HG11	1.94	0.50
32:41:8:LYS:O	32:41:11:TYR:HB3	2.11	0.50
32:41:79:ASN:OD1	32:41:79:ASN:N	2.43	0.50
32:41:83:ARG:HB2	32:41:86:MET:HG2	1.91	0.50
35:58:137:LYS:HG3	35:58:138:LEU:N	2.25	0.50
37:78:19:VAL:HG11	37:78:27:HIS:HB2	1.92	0.50
1:1G:464:G:C6	1:1G:466:C:H5'	2.46	0.50
1:1G:946:A:H2'	1:1G:947:G:C8	2.45	0.50
1:1G:963:G:N2	1:1G:972:C:N3	2.52	0.50
1:1G:1310:G:OP2	13:4A:88:ARG:NH2	2.34	0.50
2:12:189:ASP:HB3	2:12:203:GLY:O	2.11	0.50
3:22:123:GLN:HA	3:22:126:ARG:HB2	1.92	0.50
5:42:81:GLU:HA	5:42:89:ILE:O	2.11	0.50
5:42:145:LYS:O	5:42:148:VAL:HB	2.11	0.50
9:82:70:LYS:O	9:82:74:ILE:HG13	2.11	0.50
9:82:89:ASN:O	9:82:92:TYR:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1011:G:OP2	42:85:70:ARG:NH2	2.44	0.50
26:14:1728:G:N1	26:14:1730:U:OP2	2.44	0.50
26:14:1860:G:H8	26:14:1860:G:O5'	1.94	0.50
26:14:2094:G:H5'	34:69:25:TYR:CD1	2.46	0.50
26:14:2258:C:H4'	26:14:2259:G:OP2	2.11	0.50
26:14:2535:G:H2'	26:14:2536:G:H8	1.76	0.50
27:1J:0:A:H3'	27:1J:0:A:OP2	2.10	0.50
27:1J:116:G:C5'	40:65:55:ALA:HB2	2.38	0.50
32:49:147:ASP:OD1	32:49:147:ASP:N	2.44	0.50
35:15:55:VAL:HB	35:15:126:PRO:HA	1.94	0.50
36:25:52:VAL:C	36:25:53:LYS:HD2	2.36	0.50
36:25:64:ARG:HB2	36:25:83:ALA:HB3	1.93	0.50
37:35:15:ARG:NH1	37:35:15:ARG:HB2	2.26	0.50
38:45:112:GLU:OE2	38:45:112:GLU:N	2.44	0.50
44:A5:59:VAL:HG23	44:A5:65:LEU:N	2.26	0.50
47:D5:100:VAL:N	47:D5:124:ILE:O	2.28	0.50
1:13:406:G:H21	4:3E:119:GLN:CD	2.20	0.50
1:13:490:G:H2'	1:13:491:G:C8	2.46	0.50
1:13:1132:C:H2'	1:13:1133:G:H8	1.76	0.50
1:13:1256:A:C2	1:13:1277:C:C4	3.00	0.50
4:3E:22:LYS:HB2	4:3E:26:CYS:SG	2.51	0.50
10:1I:84:GLN:HG3	10:1I:88:LEU:HD23	1.92	0.50
15:6I:74:ASP:OD1	15:6I:77:ARG:N	2.35	0.50
17:8I:67:LYS:HA	17:8I:70:ARG:NH1	2.23	0.50
26:1H:516:C:OP1	53:N8:13:LYS:NZ	2.33	0.50
26:1H:723:G:H2'	26:1H:724:U:O4'	2.11	0.50
26:1H:1026:U:H1'	26:1H:1027:A:P	2.51	0.50
26:1H:1557:C:H5"	26:1H:1558:A:OP2	2.12	0.50
26:1H:2228:G:OP1	29:11:261:LYS:NZ	2.36	0.50
26:1H:2352:A:C4	26:1H:2366:A:C2	2.99	0.50
29:11:102:LYS:C	29:11:103:ARG:HG2	2.36	0.50
30:21:73:GLU:HG3	30:21:74:PRO:HD2	1.93	0.50
31:31:13:SER:HA	31:31:127:GLU:HB3	1.92	0.50
34:61:40:THR:O	34:61:44:LEU:HB2	2.10	0.50
44:E8:9:TYR:H	44:E8:102:HIS:CD2	2.30	0.50
44:E8:79:GLY:HA3	44:E8:100:THR:HG22	1.93	0.50
55:Q8:39:LYS:CG	55:Q8:40:GLU:H	2.23	0.50
1:1G:114:U:H2'	1:1G:115:G:C8	2.46	0.50
1:1G:453:A:H4'	16:7A:72:ARG:HB2	1.92	0.50
1:1G:683:G:N2	1:1G:707:C:O2	2.35	0.50
1:1G:1375:A:H4'	7:62:29:LYS:CE	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1378:C:H3'	1:1G:1379:G:H5"	1.91	0.50
17:8A:20:THR:HG21	17:8A:41:LYS:HD2	1.93	0.50
26:14:389:G:H1	37:35:70:GLN:HB3	1.76	0.50
26:14:781:A:H2	26:14:1776:G:N3	2.08	0.50
26:14:959:A:N6	26:14:960:A:N1	2.58	0.50
26:14:960:A:C8	26:14:962:G:C8	2.99	0.50
26:14:2228:G:C6	26:14:2229:C:C4	3.00	0.50
26:14:2378:A:H4'	40:65:23:ARG:NH1	2.26	0.50
26:14:2564:A:N7	26:14:2565:A:N6	2.58	0.50
29:19:270:ILE:O	29:19:271:ILE:HG23	2.11	0.50
30:29:36:ARG:HG2	30:29:85:ASN:HD21	1.76	0.50
33:59:153:LYS:C	33:59:155:SER:H	2.19	0.50
34:69:9:LEU:HD12	34:69:12:LEU:HD22	1.92	0.50
37:35:65:ARG:HH12	55:M5:14:VAL:C	2.19	0.50
37:35:96:THR:OG1	37:35:97:PRO:O	2.30	0.50
37:35:120:ALA:O	37:35:121:LYS:HE3	2.11	0.50
47:D5:157:LEU:CA	47:D5:161:VAL:HG11	2.34	0.50
1:13:138:G:H1	1:13:225:C:H42	1.59	0.50
1:13:451:A:N6	1:13:480:U:H2'	2.25	0.50
1:13:491:G:H2'	1:13:492:G:H8	1.76	0.50
1:13:1023:G:H3'	1:13:1024:G:C5'	2.40	0.50
1:13:1273:G:H3'	1:13:1274:G:H8	1.76	0.50
2:1E:226:ARG:HG3	2:1E:227:GLY:H	1.75	0.50
8:7E:127:LEU:HB2	8:7E:129:VAL:HG22	1.93	0.50
22:1K:73:A:H2'	22:1K:74:A:H8	1.77	0.50
26:1H:363(A):A:H2'	26:1H:363(B):G:H8	1.76	0.50
26:1H:580:C:C2	26:1H:581:C:C5	2.98	0.50
26:1H:736:C:H5"	59:1H:4221:HOH:O	2.11	0.50
26:1H:747:U:O2	26:1H:2014:A:H1'	2.10	0.50
26:1H:775:G:C5	26:1H:794:G:C8	2.99	0.50
26:1H:1655:A:H3'	26:1H:1656:C:H6	1.76	0.50
26:1H:1814:G:P	29:11:40:THR:HG21	2.51	0.50
26:1H:1997:G:H5"	59:1H:3946:HOH:O	2.11	0.50
26:1H:2114:A:H5"	26:1H:2117:A:OP2	2.11	0.50
26:1H:2388:A:C2'	26:1H:2389:G:H5'	2.41	0.50
27:16:42:C:H4'	32:41:67:LYS:HD2	1.94	0.50
37:78:13:ASN:OD1	37:78:15:ARG:HD3	2.11	0.50
38:88:59:ARG:N	38:88:59:ARG:HD2	2.26	0.50
41:B8:30:VAL:HG23	41:B8:83:ILE:HG23	1.93	0.50
41:B8:81:PRO:HG2	41:B8:82:LEU:HD12	1.92	0.50
41:B8:108:ARG:HA	41:B8:111:ARG:NE	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:E8:88:ARG:NH1	44:E8:94:ASP:OD2	2.45	0.50
1:1G:371:G:O2'	1:1G:373:A:N7	2.44	0.50
1:1G:373:A:N3	1:1G:374:A:C8	2.79	0.50
1:1G:410:G:C2	1:1G:429:U:C2	3.00	0.50
1:1G:547:A:OP2	4:32:2:GLY:HA2	2.12	0.50
1:1G:577:G:H2'	1:1G:578:C:H6	1.77	0.50
1:1G:920:U:H2'	1:1G:921:U:C6	2.45	0.50
1:1G:1048:G:O4'	1:1G:1215:G:H4'	2.11	0.50
1:1G:1261:A:C2	1:1G:1262:C:H1'	2.47	0.50
1:1G:1298:C:H41	7:62:114:ARG:HB3	1.77	0.50
1:1G:1327:C:H2'	1:1G:1328:C:C6	2.45	0.50
2:12:10:LEU:HA	2:12:13:ALA:HB3	1.92	0.50
2:12:71:VAL:HG23	2:12:163:PHE:O	2.11	0.50
4:32:64:LEU:HD22	4:32:198:VAL:HG21	1.94	0.50
7:62:126:ASP:HB3	7:62:131:LYS:O	2.12	0.50
9:82:47:LEU:HD12	9:82:51:ARG:HH21	1.76	0.50
24:3L:25:C:H2'	24:3L:26:A:O4'	2.11	0.50
26:14:572:A:H5"	26:14:573:G:OP2	2.11	0.50
26:14:906:G:OP1	38:45:26:TYR:OH	2.16	0.50
26:14:1312:U:H4'	26:14:1313:U:O5'	2.11	0.50
26:14:1385:G:H1'	26:14:1386:C:C6	2.47	0.50
26:14:2292:C:OP1	40:65:17:ARG:NH2	2.44	0.50
26:14:2621:A:P	30:29:119:ARG:HH22	2.34	0.50
26:14:2778:A:H5"	26:14:2778:A:C8	2.45	0.50
32:49:50:ALA:HB2	32:49:87:PRO:HG3	1.93	0.50
33:59:54:ARG:NE	33:59:57:ASP:OD1	2.44	0.50
33:59:69:ARG:HA	33:59:72:ILE:HD12	1.92	0.50
40:65:26:LEU:O	40:65:88:ASP:HB2	2.10	0.50
40:65:62:LYS:O	40:65:65:VAL:HG12	2.12	0.50
41:75:123:GLN:HA	41:75:126:ALA:HB3	1.93	0.50
46:C5:87:LYS:HB3	46:C5:94:LYS:HA	1.91	0.50
1:13:153:C:N4	1:13:168:G:H1	2.08	0.50
1:13:376:G:H5"	16:7I:5:ARG:HD2	1.94	0.50
1:13:896:C:H5"	17:8I:101:ARG:HD3	1.94	0.50
1:13:1240:U:OP2	7:6E:116:ALA:N	2.44	0.50
4:3E:9:CYS:HB3	4:3E:32:ALA:CB	2.26	0.50
4:3E:82:ALA:O	4:3E:85:LYS:HB3	2.10	0.50
6:5E:35:ALA:HB1	6:5E:65:VAL:HG21	1.94	0.50
7:6E:70:LYS:HG2	7:6E:96:GLN:HB3	1.93	0.50
16:7I:5:ARG:O	16:7I:20:VAL:HG12	2.11	0.50
20:BI:97:ALA:O	20:BI:99:LEU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:306:U:C5	26:1H:307:G:C5	2.99	0.50
26:1H:400:G:N7	59:1H:3981:HOH:O	2.33	0.50
26:1H:774:A:H2	26:1H:787:U:O2'	1.94	0.50
26:1H:1746:G:H2'	26:1H:1747:G:H8	1.76	0.50
26:1H:2316:C:H2'	26:1H:2317:C:H6	1.76	0.50
26:1H:2802:G:H8	26:1H:2802:G:OP2	1.94	0.50
26:1H:2808:U:H5'	26:1H:2891:G:O6	2.10	0.50
26:1H:2830:G:H5"	26:1H:2830:G:C8	2.46	0.50
26:1H:2855:C:H2'	26:1H:2856:C:H6	1.76	0.50
30:21:65:GLY:HA2	30:21:70:ALA:HB2	1.93	0.50
33:51:130:ARG:HB3	33:51:130:ARG:CZ	2.40	0.50
51:L8:7:LYS:C	51:L8:54:VAL:HG23	2.37	0.50
1:1G:451:A:OP1	1:1G:481:G:N2	2.37	0.50
1:1G:584:G:H5'	17:8A:91:ARG:NH1	2.18	0.50
1:1G:1030:C:O2	1:1G:1031:G:N1	2.45	0.50
1:1G:1378:C:H3'	1:1G:1379:G:C5'	2.42	0.50
4:32:126:ILE:HG22	4:32:127:THR:N	2.26	0.50
5:42:145:LYS:O	5:42:149:GLU:HG2	2.12	0.50
8:72:86:ILE:HG12	8:72:135:CYS:HA	1.93	0.50
11:2A:29:ILE:HG22	11:2A:44:SER:CB	2.34	0.50
15:6A:69:TYR:HD1	15:6A:72:ARG:NH2	2.09	0.50
26:14:108:U:H2'	26:14:109:G:C8	2.46	0.50
26:14:455:C:N3	26:14:472:A:H2'	2.27	0.50
26:14:719:C:H2'	26:14:720:C:C6	2.46	0.50
26:14:899:A:H5'	26:14:900:A:OP2	2.11	0.50
26:14:932:G:H4'	26:14:933:A:O5'	2.12	0.50
26:14:1356:G:C6	26:14:1357:U:N3	2.78	0.50
26:14:1450:C:H2'	26:14:1451:C:H6	1.77	0.50
26:14:2064:C:H2'	26:14:2065:C:C6	2.46	0.50
26:14:2065:C:H2'	26:14:2066:C:C6	2.46	0.50
26:14:2259:G:C2	26:14:2282:G:N1	2.80	0.50
27:1J:18:G:H1	27:1J:65:C:N4	2.00	0.50
31:39:67:GLN:O	31:39:67:GLN:HG3	2.11	0.50
39:55:73:VAL:O	39:55:76:VAL:HG12	2.11	0.50
40:65:7:TYR:CZ	40:65:91:PRO:HG3	2.46	0.50
40:65:34:HIS:HD2	40:65:54:LEU:H	1.58	0.50
1:13:403:C:H4'	4:3E:122:ARG:NH1	2.27	0.50
1:13:814:A:N7	1:13:816:A:C4	2.80	0.50
3:2E:33:LEU:HA	3:2E:36:ASP:HB2	1.93	0.50
17:8I:48:GLU:O	17:8I:50:LYS:HG2	2.12	0.50
20:BI:26:ASN:O	20:BI:30:LYS:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:194:G:N7	59:1H:4369:HOH:O	2.35	0.50
26:1H:654(A):A:C2	26:1H:654(T):A:N1	2.79	0.50
26:1H:1533:C:H2'	26:1H:1534:G:C4	2.47	0.50
45:F8:3:THR:CB	45:F8:4:ALA:HA	2.41	0.50
45:F8:67:GLY:C	45:F8:69:TYR:H	2.20	0.50
48:I8:48:GLY:HA3	48:I8:80:HIS:ND1	2.27	0.50
50:K8:55:ARG:O	50:K8:58:ALA:HB3	2.12	0.50
1:1G:236:G:H2'	1:1G:237:C:O4'	2.12	0.50
1:1G:515:G:C6	1:1G:516:U:C4	2.99	0.50
1:1G:735:C:H2'	1:1G:736:C:C6	2.46	0.50
1:1G:1002:G:H1	1:1G:1038:C:H42	1.60	0.50
1:1G:1080:A:H5'	5:42:14:ARG:NH2	2.25	0.50
11:2A:13:GLN:HG3	11:2A:76:GLY:HA3	1.92	0.50
26:14:30:G:C2	26:14:511:U:O2	2.64	0.50
26:14:1188:U:H4'	43:95:79:VAL:CG1	2.33	0.50
26:14:1403:C:OP1	26:14:1522:G:N2	2.30	0.50
26:14:1753:G:N1	26:14:1756:G:C2	2.80	0.50
26:14:1817:G:OP1	29:19:88:ARG:NH2	2.39	0.50
26:14:1818:U:H2'	29:19:157:ARG:HG3	1.93	0.50
26:14:1970:A:P	59:14:3472:HOH:O	2.70	0.50
26:14:2761:G:H1'	33:59:143:GLN:OE1	2.12	0.50
29:19:16:MET:HE1	29:19:208:LYS:HE2	1.94	0.50
29:19:39:LYS:HB3	29:19:39:LYS:NZ	2.26	0.50
42:85:98:LEU:HA	42:85:100:VAL:O	2.11	0.50
47:D5:10:ARG:HB2	47:D5:37:VAL:HA	1.94	0.50
47:D5:125:LEU:HD23	47:D5:164:ALA:HB3	1.94	0.50
55:M5:22:VAL:HG21	55:M5:53:PRO:HG2	1.93	0.50
1:13:677:U:H3	1:13:713:G:N2	2.09	0.50
1:13:963:G:H1	1:13:972:C:H42	1.60	0.50
4:3E:98:GLU:HG3	4:3E:103:ASN:HD21	1.77	0.50
7:6E:94:ARG:O	7:6E:97:GLN:HB3	2.12	0.50
8:7E:87:SER:CB	8:7E:93:VAL:H	2.24	0.50
22:1K:67:C:H2'	22:1K:68:C:C6	2.46	0.50
24:3K:24:G:C6	24:3K:25:C:N4	2.79	0.50
24:3K:52:G:N1	24:3K:63:G:O6	2.45	0.50
26:1H:550:G:O2'	26:1H:1220:A:N3	2.41	0.50
26:1H:631:A:OP2	55:Q8:44:LYS:NZ	2.32	0.50
26:1H:1021:A:C8	26:1H:1021:A:C3'	2.92	0.50
26:1H:1228:G:H5"	26:1H:1228:G:H8	1.76	0.50
26:1H:1637:A:H4'	26:1H:2711:A:O2'	2.12	0.50
26:1H:2171:A:O2'	26:1H:2172:U:O5'	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2431:U:O2	26:1H:2433:A:C8	2.64	0.50
26:1H:2655:G:O2'	26:1H:2656:U:OP2	2.30	0.50
31:31:39:TRP:CH2	31:31:106:ARG:HD2	2.47	0.50
34:61:86:THR:HA	34:61:123:LEU:HD13	1.94	0.50
35:58:15:LEU:HD13	35:58:16:ILE:N	2.27	0.50
40:A8:48:LEU:HD22	40:A8:82:ILE:HD11	1.94	0.50
46:G8:47:LYS:HB3	46:G8:61:ILE:HG22	1.93	0.50
49:J8:92:LYS:HA	49:J8:95:LEU:CB	2.40	0.50
55:Q8:49:VAL:HG13	55:Q8:50:LEU:O	2.12	0.50
1:1G:616:G:C2	1:1G:617:G:C8	3.00	0.50
1:1G:1216:G:H2'	1:1G:1217:C:C6	2.46	0.50
1:1G:1250:A:H4'	9:82:68:GLY:N	2.26	0.50
1:1G:1478:C:H2'	1:1G:1479:C:H6	1.76	0.50
9:82:118:LYS:NZ	9:82:118:LYS:O	2.42	0.50
13:4A:54:VAL:O	13:4A:58:GLU:HB3	2.11	0.50
17:8A:17:LYS:HD3	17:8A:47:PRO:HA	1.93	0.50
26:14:305:U:H2'	26:14:306:U:C6	2.46	0.50
26:14:415:A:H61	26:14:2408:U:H3	1.60	0.50
26:14:445:C:O2'	26:14:446:G:H5'	2.12	0.50
26:14:614:U:H1'	26:14:615:G:H5"	1.94	0.50
26:14:1161:C:H2'	26:14:1162:G:H8	1.77	0.50
26:14:1225:C:O2'	43:95:85:LYS:N	2.45	0.50
26:14:1352:U:O2	26:14:1570:A:H2	1.94	0.50
26:14:1461:G:H8	26:14:1461:G:O5'	1.95	0.50
26:14:1926:U:H2'	26:14:1928:A:OP2	2.11	0.50
30:29:23:VAL:HG11	30:29:183:LEU:HD23	1.93	0.50
30:29:81:ILE:O	30:29:82:ARG:HB2	2.12	0.50
30:29:200:GLU:OE1	30:29:200:GLU:N	2.44	0.50
33:59:158:HIS:O	33:59:158:HIS:ND1	2.41	0.50
37:35:15:ARG:NH2	37:35:17:LYS:HE3	2.27	0.50
42:85:90:VAL:HA	43:95:39:LEU:HD23	1.94	0.50
1:13:450:G:N7	1:13:481:G:C6	2.80	0.50
1:13:491:G:H2'	1:13:492:G:C8	2.47	0.50
1:13:827:U:C5	1:13:870:U:C4	2.99	0.50
1:13:1347:G:C8	9:8E:107:ARG:HB3	2.47	0.50
1:13:1503:A:N3	25:4K:13:A:N6	2.59	0.50
2:1E:104:ASN:HD21	2:1E:107:THR:HB	1.75	0.50
8:7E:82:HIS:C	8:7E:82:HIS:ND1	2.70	0.50
14:5I:53:LEU:HB3	14:5I:56:VAL:HG21	1.94	0.50
26:1H:152:G:H1	26:1H:174:C:N4	2.09	0.50
26:1H:355:G:H2'	26:1H:356:G:H8	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:443:A:N7	31:31:45:ARG:HG2	2.26	0.50
26:1H:1092:C:H2'	26:1H:1093:G:H5'	1.93	0.50
26:1H:1143:A:OP1	35:58:25:ARG:NH2	2.42	0.50
26:1H:1439:A:C2	26:1H:1553:A:C4	2.99	0.50
26:1H:2053:G:OP1	30:21:144:ARG:HD3	2.12	0.50
26:1H:2120:G:H2'	26:1H:2121:G:H8	1.77	0.50
26:1H:2361:A:H4'	55:Q8:26:LYS:HE3	1.92	0.50
26:1H:2595:G:N7	59:1H:3921:HOH:O	2.35	0.50
27:16:24:G:N7	27:16:56:G:H2'	2.26	0.50
29:11:172:TYR:HD1	29:11:185:VAL:C	2.20	0.50
33:51:38:SER:OG	33:51:40:GLU:HG3	2.12	0.50
38:88:133:ARG:O	38:88:134:ARG:HB2	2.12	0.50
39:98:72:ASP:OD2	39:98:75:LEU:HB2	2.11	0.50
1:1G:54:C:N4	1:1G:353:A:OP2	2.44	0.50
1:1G:234:C:H2'	1:1G:235:C:C6	2.47	0.50
1:1G:1124:G:P	10:1A:36:GLY:HA3	2.51	0.50
1:1G:1396:A:H4'	1:1G:1397:C:OP2	2.12	0.50
9:82:84:ALA:O	9:82:87:GLN:HB3	2.12	0.50
56:2L:19:G:C2	56:2L:59:A:C4	3.00	0.50
26:14:270(L):U:O2'	26:14:270(M):U:OP1	2.28	0.50
26:14:544:C:N3	26:14:550:G:N2	2.59	0.50
26:14:642:G:H3'	26:14:642:G:C8	2.46	0.50
26:14:756:C:H2'	26:14:757:U:H5'	1.94	0.50
26:14:913:U:H4'	26:14:914:C:OP1	2.11	0.50
26:14:1131:G:C2	26:14:1132:A:C4	2.99	0.50
26:14:1316:U:H2'	26:14:1317:A:H8	1.77	0.50
26:14:1439:A:H2'	26:14:1440:G:O4'	2.11	0.50
26:14:1795:C:H2'	26:14:1796:U:H6	1.77	0.50
26:14:2525:G:N2	26:14:2539:C:C2	2.79	0.50
26:14:2580:U:H5"	30:29:130:GLY:O	2.11	0.50
42:85:110:VAL:HG12	42:85:114:LYS:HD2	1.93	0.50
48:E5:32:ARG:O	48:E5:34:GLY:N	2.38	0.50
52:I5:37:SER:C	52:I5:39:CYS:H	2.19	0.50
55:M5:34:TRP:CD1	55:M5:35:GLN:N	2.74	0.50
1:13:233:C:H2'	1:13:234:C:H6	1.76	0.50
1:13:1125:U:H5'	1:13:1126:U:C5	2.47	0.50
1:13:1151:A:O2'	1:13:1152:A:O5'	2.19	0.50
6:5E:41:GLU:HB2	6:5E:62:TRP:CE3	2.47	0.50
9:8E:83:ARG:O	9:8E:86:VAL:HG12	2.12	0.50
26:1H:135:G:N7	59:1H:4100:HOH:O	2.33	0.50
26:1H:1038:C:H2'	26:1H:1039:G:O4'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1500:G:O2'	29:11:100:GLY:O	2.24	0.50
26:1H:1553:A:N1	26:1H:1555:G:H1'	2.26	0.50
26:1H:1901:A:OP2	29:11:255:LYS:HE2	2.12	0.50
26:1H:2108:C:N3	26:1H:2181:G:N1	2.50	0.50
26:1H:2328:A:H2'	26:1H:2329:G:C8	2.47	0.50
29:11:70:TRP:CH2	29:11:150:LYS:HA	2.46	0.50
34:61:31:LEU:HD21	34:61:38:LEU:HG	1.93	0.50
47:H8:53:ILE:HG22	47:H8:71:VAL:HG13	1.94	0.50
50:K8:20:GLU:O	50:K8:24:LEU:HB2	2.10	0.50
52:M8:10:VAL:HG22	52:M8:11:PRO:HD2	1.93	0.50
1:1G:19:C:H1'	1:1G:917:G:H22	1.77	0.50
1:1G:281:G:H8	1:1G:281:G:OP2	1.94	0.50
1:1G:656:C:O2'	15:6A:28:GLN:OE1	2.20	0.50
1:1G:983:A:H2	1:1G:984:C:C6	2.30	0.50
11:2A:73:MET:O	11:2A:76:GLY:N	2.31	0.50
13:4A:91:ARG:HD2	13:4A:96:LEU:HB3	1.93	0.50
26:14:1324:G:C2	26:14:1331:A:C2	2.99	0.50
26:14:1821:A:H2'	26:14:1822:G:C8	2.46	0.50
26:14:2394:C:H2'	26:14:2395:C:H6	1.75	0.50
26:14:2547:U:O2'	26:14:2548:G:H5'	2.12	0.50
26:14:2744:G:N2	33:59:143:GLN:OE1	2.45	0.50
27:1J:10:C:C4	27:1J:11:C:C5	3.00	0.50
30:29:34:VAL:HG21	30:29:78:LEU:HD22	1.94	0.50
33:59:119:GLU:C	33:59:140:LYS:HZ1	2.15	0.50
37:35:15:ARG:HB2	37:35:15:ARG:CZ	2.42	0.50
37:35:27:HIS:HB3	37:35:32:THR:HG23	1.93	0.50
41:75:8:LYS:HZ2	41:75:8:LYS:CB	2.25	0.50
45:B5:3:THR:O	45:B5:6:ASP:HB2	2.12	0.50
47:D5:52:SER:O	47:D5:54:HIS:N	2.44	0.50
52:I5:14:ILE:HG22	52:I5:22:ILE:HA	1.94	0.50
53:J5:2:ALA:O	53:J5:3:LYS:NZ	2.43	0.50
4:3E:147:ALA:HA	4:3E:181:MET:O	2.11	0.50
5:4E:103:GLY:O	5:4E:106:PRO:HD2	2.11	0.50
12:3I:60:LEU:HB2	12:3I:64:TYR:HB2	1.93	0.50
16:7I:57:ARG:O	16:7I:60:LEU:N	2.45	0.50
26:1H:469:G:O6	54:P8:39:ARG:NH1	2.45	0.50
26:1H:1049:C:N3	26:1H:2751:G:O6	2.45	0.50
41:B8:93:ARG:HG3	41:B8:93:ARG:HH11	1.76	0.50
1:1G:561:U:HO2'	1:1G:562:C:P	2.35	0.50
1:1G:984:C:H2'	1:1G:985:C:H6	1.77	0.50
2:12:174:VAL:HG11	2:12:196:LEU:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9A:29:PHE:N	18:9A:29:PHE:HD1	2.09	0.50
26:14:852:G:H2'	26:14:853:G:C8	2.46	0.50
26:14:1285:G:N2	26:14:1329:U:OP1	2.43	0.50
26:14:1341:U:H2'	26:14:1397:U:O2	2.11	0.50
26:14:1357:U:H2'	26:14:1358:G:O4'	2.12	0.50
26:14:2630:G:N3	26:14:2894:G:N1	2.60	0.50
26:14:2636:U:H1'	26:14:2783:G:N2	2.26	0.50
59:14:3871:HOH:O	31:39:54:ARG:NH2	2.45	0.50
59:14:3922:HOH:O	39:55:3:HIS:HE1	1.94	0.50
38:45:27:VAL:HG21	38:45:137:TYR:H	1.77	0.50
40:65:34:HIS:NE2	40:65:54:LEU:HD13	2.27	0.50
1:13:165:C:H2'	1:13:166:G:H8	1.77	0.49
1:13:1292:U:H2'	1:13:1293:G:C8	2.46	0.49
2:1E:26:PRO:C	2:1E:28:PHE:H	2.20	0.49
6:5E:89:MET:HG3	18:9I:76:LEU:CD2	2.42	0.49
7:6E:15:ASP:O	7:6E:19:GLY:HA2	2.12	0.49
8:7E:81:HIS:HB2	8:7E:138:TRP:C	2.36	0.49
13:4I:82:MET:HE3	13:4I:93:ARG:HG2	1.94	0.49
26:1H:270(F):U:H2'	26:1H:270(G):C:C6	2.47	0.49
26:1H:1387:C:O2	26:1H:1387:C:H2'	2.11	0.49
26:1H:2052:G:H4'	30:21:143:ASN:O	2.12	0.49
27:16:54:G:H2'	27:16:55:U:H6	1.76	0.49
30:21:34:VAL:HG22	30:21:48:GLN:HB3	1.94	0.49
33:51:92:ILE:CD1	33:51:93:GLY:H	2.25	0.49
38:88:32:TYR:CE2	38:88:111:GLU:HA	2.46	0.49
41:B8:74:ARG:HD3	41:B8:76:PHE:CZ	2.47	0.49
44:E8:78:GLU:OE1	44:E8:99:ARG:HD3	2.12	0.49
47:H8:30:ASN:HA	47:H8:89:PHE:CE1	2.45	0.49
52:M8:43:TYR:CE2	52:M8:44:THR:HG23	2.46	0.49
55:Q8:46:ARG:CZ	55:Q8:46:ARG:HA	2.42	0.49
55:Q8:54:GLU:O	55:Q8:56:GLU:N	2.45	0.49
1:1G:345:C:C6	1:1G:345:C:H5"	2.47	0.49
1:1G:963:G:H21	10:1A:55:LYS:HE3	1.77	0.49
1:1G:1079:G:H5"	5:42:45:PHE:CZ	2.44	0.49
1:1G:1294:G:H2'	1:1G:1295:G:H8	1.74	0.49
1:1G:1326:C:H2'	1:1G:1327:C:C6	2.46	0.49
1:1G:1345:U:O2	1:1G:1377:A:N6	2.44	0.49
6:52:6:VAL:HG22	6:52:90:VAL:HG22	1.94	0.49
15:6A:4:THR:H	15:6A:7:GLU:HG2	1.77	0.49
20:BA:98:PRO:HA	20:BA:100:ILE:HD13	1.94	0.49
26:14:639:U:H2'	26:14:640:C:C6	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:721:C:H2'	26:14:722:A:C8	2.47	0.49
26:14:748:G:H3'	59:14:3672:HOH:O	2.12	0.49
26:14:751:A:H5'	44:A5:90:ARG:HA	1.93	0.49
26:14:829:A:N7	26:14:2247:A:O2'	2.41	0.49
26:14:1389:G:H2'	26:14:1390:U:C6	2.47	0.49
26:14:1599:C:H2'	26:14:1600:C:C6	2.47	0.49
27:1J:116:G:C2	27:1J:117:G:H1'	2.47	0.49
30:29:61:ARG:HG2	30:29:63:LEU:HD22	1.94	0.49
32:49:120:LEU:HG	32:49:179:PRO:O	2.12	0.49
38:45:66:ILE:HG13	38:45:67:ARG:H	1.76	0.49
42:85:34:LYS:NZ	42:85:37:GLU:OE1	2.43	0.49
47:D5:74:VAL:HA	47:D5:86:VAL:HG23	1.93	0.49
48:E5:15:ASP:OD1	48:E5:16:SER:N	2.36	0.49
49:F5:8:SER:HB3	49:F5:66:HIS:CD2	2.47	0.49
54:L5:43:THR:HG22	54:L5:44:PRO:O	2.12	0.49
1:13:160:A:H61	1:13:347:G:H1'	1.77	0.49
1:13:229:U:O2'	16:7I:23:ASP:OD2	2.22	0.49
1:13:1239:A:H62	1:13:1299:A:H62	1.59	0.49
2:1E:94:ASN:OD1	2:1E:94:ASN:N	2.45	0.49
6:5E:39:LYS:HB3	6:5E:62:TRP:HZ3	1.78	0.49
8:7E:34:GLU:OE1	8:7E:37:ARG:NH1	2.45	0.49
9:8E:47:LEU:H	9:8E:47:LEU:HD22	1.76	0.49
19:AI:28:LYS:HB3	19:AI:47:HIS:CE1	2.47	0.49
26:1H:270(K):C:O2'	26:1H:270(M):U:OP1	2.30	0.49
26:1H:1336:A:H2'	26:1H:1337:G:C8	2.47	0.49
26:1H:1358:G:O2'	26:1H:1359:A:H5"	2.12	0.49
26:1H:1512:G:H2'	26:1H:1513:C:C6	2.47	0.49
26:1H:1607:C:N4	26:1H:1622:G:OP2	2.36	0.49
26:1H:1697:G:OP2	26:1H:1698:A:O2'	2.19	0.49
31:31:33:LEU:HD23	37:78:1:MET:HG3	1.93	0.49
31:31:36:VAL:HG11	31:31:183:VAL:HG11	1.94	0.49
45:F8:12:VAL:HG13	45:F8:27:THR:O	2.12	0.49
46:G8:89:PHE:HE2	46:G8:94:LYS:HD3	1.76	0.49
55:Q8:34:TRP:CZ3	55:Q8:39:LYS:CB	2.89	0.49
1:1G:711:G:O2'	1:1G:712:A:H5'	2.12	0.49
1:1G:942:G:C2	1:1G:943:U:C6	3.00	0.49
1:1G:1002:G:H22	1:1G:1038:C:H42	1.59	0.49
1:1G:1191:A:OP1	3:22:3:ASN:ND2	2.45	0.49
2:12:119:GLU:HA	2:12:122:PHE:HD2	1.77	0.49
2:12:142:LEU:O	2:12:142:LEU:HD23	2.12	0.49
5:42:10:MET:HE1	5:42:13:ILE:CG1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:62:102:ARG:O	7:62:106:GLN:HG3	2.12	0.49
9:82:16:ARG:O	9:82:63:ILE:HG23	2.13	0.49
12:3A:84:LEU:HD23	12:3A:105:TYR:CE2	2.46	0.49
26:14:946:G:H2'	26:14:947:G:H8	1.76	0.49
26:14:2536:G:C2	26:14:2537:U:C2	2.99	0.49
27:1J:7:G:H5"	27:1J:7:G:C8	2.43	0.49
30:29:9:VAL:HG23	30:29:26:ILE:O	2.12	0.49
30:29:135:HIS:CE1	59:29:402:HOH:O	2.61	0.49
36:25:2:ILE:HG23	36:25:6:THR:HB	1.94	0.49
36:25:107:ARG:HB3	36:25:115:VAL:HG21	1.93	0.49
37:35:86:LYS:HD3	37:35:117:GLU:HG2	1.93	0.49
49:F5:87:PRO:O	49:F5:91:LYS:N	2.29	0.49
1:13:396:G:C2	1:13:398:C:C4	3.01	0.49
1:13:413:G:N2	1:13:428:G:H1'	2.27	0.49
1:13:692:U:H2'	1:13:694:A:OP2	2.13	0.49
1:13:864:A:H2'	1:13:865:A:C8	2.47	0.49
1:13:1263:C:O2'	1:13:1264:C:H5'	2.13	0.49
3:2E:22:TRP:CZ3	3:2E:24:ALA:HB2	2.47	0.49
7:6E:15:ASP:OD1	7:6E:44:TYR:OH	2.30	0.49
11:2I:57:THR:HG22	11:2I:59:TYR:N	2.26	0.49
26:1H:317:G:N2	26:1H:318:C:C2	2.81	0.49
26:1H:847:U:C5	26:1H:933:A:N1	2.80	0.49
26:1H:992:C:H2'	26:1H:993:G:C8	2.45	0.49
26:1H:2056:G:O2'	53:N8:8:LYS:HD2	2.13	0.49
26:1H:2488:A:H2'	26:1H:2489:G:O4'	2.12	0.49
26:1H:2600:A:C6	26:1H:2601:C:N4	2.80	0.49
32:41:133:LEU:HD12	32:41:135:LEU:HD11	1.94	0.49
33:51:157:TYR:CE1	33:51:172:LYS:HB2	2.46	0.49
40:A8:7:TYR:CE1	40:A8:91:PRO:HG3	2.48	0.49
41:B8:3:ARG:HG3	41:B8:7:ILE:N	2.27	0.49
43:D8:72:VAL:HG23	43:D8:85:LYS:HB3	1.92	0.49
1:1G:229:U:O2'	16:7A:23:ASP:OD2	2.29	0.49
1:1G:769:G:OP2	1:1G:803:G:O2'	2.28	0.49
1:1G:1010:G:C2	1:1G:1020:U:H1'	2.48	0.49
1:1G:1268:A:H2'	1:1G:1269:A:H8	1.75	0.49
3:22:21:ARG:HB3	3:22:21:ARG:NH1	2.27	0.49
7:62:49:ILE:HD12	7:62:118:VAL:HA	1.95	0.49
7:62:69:VAL:HG21	7:62:104:LEU:HD11	1.93	0.49
8:72:21:LYS:N	8:72:65:TYR:OH	2.42	0.49
24:3L:1:G:H2'	24:3L:1:G:N3	2.27	0.49
24:3L:8:4SU:HN3	24:3L:14:A:N6	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1162:G:H1'	43:95:23:GLU:OE2	2.11	0.49
26:14:1204:A:C2	26:14:1206:G:C2	3.01	0.49
26:14:1488:G:C2'	26:14:1489:U:H5'	2.42	0.49
26:14:1858:G:H2'	26:14:1883:G:H22	1.76	0.49
26:14:2517:C:C2	26:14:2542:A:N1	2.80	0.49
32:49:111:LEU:HB3	32:49:117:PHE:CZ	2.47	0.49
33:59:102:ALA:HB1	33:59:115:VAL:O	2.13	0.49
37:35:78:PRO:HA	37:35:110:TYR:CD2	2.47	0.49
1:13:129(A):G:N2	1:13:188:U:O2'	2.45	0.49
1:13:406:G:N2	4:3E:119:GLN:OE1	2.42	0.49
1:13:685:G:O2'	1:13:686:U:H5'	2.12	0.49
1:13:1285:A:O5'	1:13:1285:A:H8	1.95	0.49
1:13:1303:C:N4	1:13:1304:G:C6	2.81	0.49
2:1E:172:ILE:O	2:1E:176:GLU:HG3	2.13	0.49
5:4E:84:PHE:CB	5:4E:134:ALA:HB2	2.42	0.49
7:6E:102:ARG:O	7:6E:106:GLN:HG3	2.12	0.49
7:6E:113:GLU:HG2	7:6E:119:ARG:HG2	1.95	0.49
14:5I:21:TYR:HE2	14:5I:23:ARG:NE	2.10	0.49
17:8I:83:ASP:OD1	17:8I:83:ASP:N	2.39	0.49
24:3K:9:A:H62	24:3K:23:A:H62	1.60	0.49
26:1H:458:G:C8	54:P8:37:LYS:HG2	2.47	0.49
26:1H:563:G:H5'	26:1H:572:A:H4'	1.94	0.49
26:1H:590:A:H2'	26:1H:591:C:C6	2.46	0.49
26:1H:719:C:H2'	26:1H:720:C:C6	2.47	0.49
26:1H:1266:G:OP2	53:N8:19:ARG:HD2	2.12	0.49
26:1H:1346:G:C6	26:1H:1601:G:C6	3.00	0.49
26:1H:2177:C:HO2'	28:71:45:ALA:N	2.09	0.49
26:1H:2470:G:OP1	38:88:56:ARG:NH1	2.46	0.49
26:1H:2593:U:O2'	26:1H:2594:C:H5'	2.13	0.49
26:1H:2756:U:O5'	26:1H:2756:U:H6	1.94	0.49
26:1H:2852:G:C5	26:1H:2853:C:C4	3.01	0.49
29:11:37:LEU:HB3	29:11:59:LYS:HZ1	1.76	0.49
41:B8:107:ASP:CG	41:B8:109:GLU:HG3	2.37	0.49
44:E8:17:VAL:O	44:E8:19:LEU:N	2.45	0.49
46:G8:54:LYS:HA	46:G8:56:PRO:HG3	1.93	0.49
50:K8:25:VAL:O	50:K8:29:LYS:HG3	2.12	0.49
55:Q8:21:LYS:NZ	55:Q8:22:VAL:N	2.61	0.49
1:1G:197:A:C8	1:1G:198:G:H1'	2.47	0.49
1:1G:426:G:H2'	1:1G:427:U:C6	2.48	0.49
5:42:61:TYR:O	5:42:65:ASN:N	2.45	0.49
6:52:28:ARG:O	6:52:31:GLU:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:72:103:VAL:HG21	8:72:110:ALA:HB2	1.94	0.49
9:82:77:ILE:O	9:82:81:ILE:HG12	2.12	0.49
10:1A:24:VAL:HG21	10:1A:37:PRO:HG3	1.94	0.49
13:4A:3:ARG:HE	13:4A:9:ILE:HG12	1.77	0.49
16:7A:20:VAL:HG11	16:7A:32:TYR:CD2	2.47	0.49
24:3L:76:A:H8	26:14:2394:C:N4	2.09	0.49
26:14:36:G:C6	26:14:37:C:C4	3.01	0.49
26:14:871:U:H4'	38:45:69:PHE:CE2	2.46	0.49
26:14:1351:C:O2'	26:14:1571:A:N3	2.45	0.49
26:14:1426:G:H5"	26:14:1427:A:OP2	2.12	0.49
26:14:1814:G:H5"	29:19:54:ARG:HH11	1.77	0.49
26:14:2253:G:H2'	26:14:2254:C:O4'	2.12	0.49
26:14:2538:C:H2'	26:14:2539:C:C6	2.47	0.49
26:14:2601:C:H2'	26:14:2603:G:C8	2.48	0.49
26:14:2694:G:C5	26:14:2695:C:C5	3.00	0.49
26:14:2882:A:P	39:55:96:ARG:HE	2.35	0.49
35:15:136:GLU:O	35:15:137:LYS:NZ	2.46	0.49
36:25:3:GLN:HB2	36:25:4:PRO:HD2	1.95	0.49
46:C5:51:VAL:C	46:C5:53:PRO:HD3	2.37	0.49
52:I5:43:TYR:CG	52:I5:43:TYR:O	2.65	0.49
1:13:1145:C:H5"	1:13:1146:A:OP1	2.12	0.49
1:13:1191:A:H5"	1:13:1192:C:OP2	2.11	0.49
1:13:1256:A:H4'	1:13:1258:G:C4	2.48	0.49
1:13:1508:G:P	59:13:1803:HOH:O	2.71	0.49
4:3E:191:ARG:HH12	4:3E:196:LEU:H	1.61	0.49
7:6E:62:PHE:HA	7:6E:124:LEU:HD21	1.95	0.49
11:2I:57:THR:HG22	11:2I:60:ALA:H	1.77	0.49
13:4I:4:ILE:HG22	13:4I:5:ALA:H	1.78	0.49
17:8I:20:THR:HG23	17:8I:43:LEU:HD23	1.93	0.49
24:3K:5:G:O5'	24:3K:5:G:H8	1.95	0.49
26:1H:485:C:H2'	26:1H:486:C:C6	2.47	0.49
26:1H:1429:G:H2'	26:1H:1430:C:H6	1.77	0.49
26:1H:1534:G:H22	26:1H:1538:G:N2	2.08	0.49
26:1H:2056:G:N2	26:1H:2057:A:C8	2.80	0.49
26:1H:2447:G:OP2	59:1H:3787:HOH:O	2.20	0.49
26:1H:2536:G:C6	26:1H:2537:U:C4	3.00	0.49
26:1H:2761:G:H1'	33:51:143:GLN:OE1	2.12	0.49
27:16:69:G:H2'	27:16:70:C:H6	1.77	0.49
34:61:64:GLU:O	34:61:67:ARG:N	2.43	0.49
35:58:18:ALA:HA	35:58:21:LYS:HG2	1.94	0.49
55:Q8:47:LYS:HZ2	55:Q8:47:LYS:H	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:229:U:H2'	1:1G:230:G:C8	2.48	0.49
7:62:92:SER:O	7:62:96:GLN:HG3	2.12	0.49
24:3L:22:G:C6	24:3L:23:A:C6	3.00	0.49
26:14:415:A:H2'	26:14:416:C:H6	1.77	0.49
26:14:443:A:H1'	26:14:1201:C:O4'	2.12	0.49
26:14:469:G:C6	54:L5:39:ARG:NH1	2.81	0.49
26:14:783:A:H8	26:14:784:A:H4'	1.78	0.49
26:14:1340:U:C2	26:14:1603:A:O4'	2.65	0.49
26:14:1894:C:H2'	26:14:1895:C:H6	1.77	0.49
39:55:34:ILE:HG22	39:55:114:VAL:HB	1.94	0.49
47:D5:69:THR:HG22	47:D5:90:VAL:HA	1.94	0.49
1:13:219:C:C4	1:13:220:G:N7	2.81	0.49
1:13:750:G:N3	15:6I:23:GLY:HA3	2.27	0.49
1:13:948:C:O2'	1:13:949:A:H5'	2.13	0.49
1:13:1414:U:H2'	1:13:1415:G:H8	1.76	0.49
2:1E:223:ILE:HA	2:1E:226:ARG:HG2	1.93	0.49
7:6E:57:GLU:O	7:6E:60:LYS:N	2.44	0.49
7:6E:62:PHE:CD2	7:6E:124:LEU:HD11	2.46	0.49
16:7I:77:ALA:HB1	16:7I:79:VAL:HG23	1.94	0.49
26:1H:36:G:C5	26:1H:37:C:C5	3.01	0.49
26:1H:512:G:C8	59:1H:4390:HOH:O	2.55	0.49
26:1H:547:A:H2'	26:1H:548:A:C8	2.47	0.49
26:1H:658:C:H2'	26:1H:659:C:C6	2.48	0.49
26:1H:946:G:P	59:1H:4058:HOH:O	2.70	0.49
26:1H:969:U:OP1	51:L8:17:LYS:HD3	2.12	0.49
26:1H:2127:G:N2	26:1H:2162:G:H1'	2.27	0.49
26:1H:2320:A:H8	26:1H:2321:G:O6	1.95	0.49
26:1H:2339:G:H2'	26:1H:2340:G:C8	2.48	0.49
26:1H:2431:U:P	59:1H:3846:HOH:O	2.70	0.49
26:1H:2687:U:H2'	26:1H:2688:U:O4'	2.13	0.49
27:16:10:C:C4	27:16:11:C:C5	3.01	0.49
29:11:239:ARG:O	29:11:240:ALA:HB3	2.12	0.49
32:41:142:PRO:HG2	32:41:143:GLU:OE2	2.12	0.49
33:51:107:VAL:HG21	33:51:152:ARG:HB2	1.93	0.49
39:98:87:TYR:OH	39:98:116:LEU:HB3	2.13	0.49
1:1G:266:G:H2'	1:1G:266:G:N3	2.28	0.49
1:1G:300:A:C5	1:1G:301:G:H1'	2.48	0.49
1:1G:673:G:H5"	6:52:87:ARG:NH1	2.28	0.49
1:1G:1004:A:C5	1:1G:1025:U:H1'	2.47	0.49
3:22:130:VAL:O	3:22:134:ILE:HG12	2.13	0.49
5:42:79:GLU:HG3	5:42:93:PRO:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:62:94:ARG:O	7:62:97:GLN:HB3	2.10	0.49
9:82:111:ARG:HG2	9:82:112:LYS:H	1.77	0.49
19:AA:40:ILE:HA	19:AA:44:MET:SD	2.53	0.49
19:AA:63:THR:HG23	19:AA:74:PHE:HE2	1.77	0.49
26:14:664:C:P	37:35:18:ARG:HH21	2.35	0.49
26:14:686:G:H8	54:L5:7:PRO:HA	1.78	0.49
26:14:1058:U:N3	26:14:1059:G:N7	2.61	0.49
26:14:1067:A:N3	26:14:1067:A:H2'	2.28	0.49
26:14:1174:A:N6	26:14:1176:G:HO2'	2.11	0.49
26:14:2124:G:N1	26:14:2174:C:N3	2.58	0.49
26:14:2745:C:H1'	33:59:143:GLN:HG2	1.95	0.49
27:1J:29:A:C2	27:1J:56:G:C2	3.00	0.49
32:49:101:ILE:HG13	32:49:102:PHE:N	2.28	0.49
33:59:10:PRO:O	33:59:49:VAL:HG12	2.12	0.49
33:59:19:VAL:HG13	33:59:43:VAL:HG21	1.94	0.49
34:69:77:LEU:HD13	34:69:141:LYS:HB2	1.95	0.49
41:75:84:GLN:OE1	41:75:85:LYS:HG2	2.13	0.49
43:95:85:LYS:HG3	43:95:87:HIS:HA	1.94	0.49
48:E5:34:GLY:HA2	48:E5:61:ALA:O	2.12	0.49
48:E5:39:ARG:HD3	48:E5:58:THR:HG23	1.95	0.49
55:M5:58:ILE:HG22	55:M5:58:ILE:O	2.12	0.49
1:13:357:G:OP1	1:13:366:C:O2'	2.29	0.49
1:13:1249:C:O2'	9:8E:73:GLN:OE1	2.31	0.49
20:BI:29:LYS:HD2	20:BI:66:ALA:HB2	1.93	0.49
26:1H:880:G:H4'	26:1H:881:G:OP1	2.11	0.49
26:1H:1533:C:C2	26:1H:1534:G:N2	2.81	0.49
26:1H:2080:G:H5'	49:J8:19:GLN:HG2	1.94	0.49
26:1H:2270:G:OP2	59:1H:4191:HOH:O	2.19	0.49
26:1H:2277:G:H5"	38:88:85:LYS:HG2	1.94	0.49
26:1H:2432:A:C4	49:J8:33:LYS:HG2	2.47	0.49
26:1H:2877:G:C2	26:1H:2878:U:C2	3.00	0.49
27:16:115:G:H8	27:16:115:G:OP2	1.95	0.49
30:21:27:LEU:HD22	41:B8:1:MET:HE1	1.93	0.49
32:41:107:LEU:HD21	32:41:178:PHE:CE1	2.47	0.49
33:51:42:ARG:HG2	33:51:44:VAL:HG23	1.94	0.49
35:58:7:LYS:H	35:58:7:LYS:NZ	2.10	0.49
37:78:78:PRO:HB3	37:78:111:ARG:HD2	1.93	0.49
37:78:78:PRO:HB3	37:78:111:ARG:HH21	1.78	0.49
37:78:122:PRO:HA	37:78:142:GLY:CA	2.42	0.49
43:D8:43:GLU:HB2	43:D8:44:LYS:NZ	2.28	0.49
46:G8:93:GLY:O	46:G8:94:LYS:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:42:G:H2'	1:1G:43:C:O4'	2.12	0.49
1:1G:103:C:OP2	20:BA:17:ARG:NH2	2.45	0.49
1:1G:233:C:H2'	1:1G:234:C:H6	1.78	0.49
1:1G:1009:G:C2	1:1G:1010:G:C8	3.01	0.49
1:1G:1319:A:O2'	1:1G:1323:G:N7	2.30	0.49
1:1G:1430:C:H2'	1:1G:1431:C:H6	1.75	0.49
4:32:26:CYS:HA	4:32:31:CYS:SG	2.53	0.49
4:32:70:ILE:HG23	4:32:75:PHE:HB2	1.95	0.49
19:AA:29:ARG:NH1	19:AA:48:THR:H	2.11	0.49
26:14:52:A:H2'	26:14:53:A:C8	2.48	0.49
26:14:479:A:N3	26:14:481:G:H5"	2.27	0.49
26:14:618:G:H2'	26:14:618(A):C:O4'	2.13	0.49
26:14:869:G:H5'	38:45:6:ARG:NH1	2.28	0.49
26:14:1473:G:C2	26:14:1474:C:C2	3.00	0.49
26:14:1858:G:H2'	26:14:1883:G:N2	2.28	0.49
26:14:2387:U:H1'	48:E5:41:ARG:HD2	1.94	0.49
26:14:2736:G:H2'	26:14:2737:G:C8	2.47	0.49
27:1J:46:A:H2'	27:1J:47:C:H6	1.78	0.49
31:39:5:ALA:HB1	31:39:125:LEU:HD21	1.95	0.49
33:59:4:ILE:HG22	33:59:54:ARG:HH22	1.77	0.49
33:59:10:PRO:HD3	33:59:50:VAL:O	2.13	0.49
40:65:34:HIS:CD2	40:65:53:SER:OG	2.66	0.49
41:75:88:ILE:HD13	41:75:91:ARG:HG2	1.94	0.49
44:A5:59:VAL:HA	44:A5:64:MET:H	1.78	0.49
1:13:91:C:N4	1:13:92:G:O6	2.46	0.49
1:13:277:C:P	17:8I:68:ARG:HH12	2.35	0.49
4:3E:61:LYS:HD3	4:3E:206:PHE:CE2	2.47	0.49
5:4E:54:ALA:O	5:4E:58:ALA:N	2.46	0.49
5:4E:110:LEU:HB3	5:4E:115:VAL:HG21	1.94	0.49
9:8E:112:LYS:CA	9:8E:119:ALA:HB2	2.41	0.49
26:1H:443:A:C5	31:31:45:ARG:HD2	2.48	0.49
26:1H:517:C:OP1	53:N8:16:ARG:NH2	2.40	0.49
26:1H:606:U:H4'	26:1H:658:C:H4'	1.93	0.49
26:1H:1296:G:O2'	26:1H:1297:C:H5'	2.13	0.49
26:1H:1328:G:H2'	26:1H:1330:C:C5	2.48	0.49
26:1H:1357:U:H2'	26:1H:1358:G:C8	2.48	0.49
26:1H:1443:G:C2	26:1H:1549:C:N3	2.81	0.49
26:1H:2061:G:H5'	59:1H:3531:HOH:O	2.11	0.49
28:71:64:LEU:HD13	28:71:188:ASN:CG	2.37	0.49
30:21:101:ARG:CZ	30:21:171:GLU:HB2	2.43	0.49
33:51:149:ARG:NH2	33:51:154:PRO:HG2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:A8:69:VAL:HA	40:A8:72:ALA:HB3	1.95	0.49
44:E8:40:ASN:O	44:E8:41:LYS:HG2	2.12	0.49
1:1G:35:G:C2	1:1G:550:G:C2	3.01	0.49
1:1G:278:G:O4'	1:1G:282:A:H1'	2.13	0.49
1:1G:407:G:OP1	4:32:115:ARG:NH2	2.43	0.49
1:1G:458:C:H2'	1:1G:464:G:C8	2.47	0.49
1:1G:1071:C:H2'	1:1G:1072:G:H8	1.78	0.49
1:1G:1153:C:N4	1:1G:1154:G:O6	2.46	0.49
1:1G:1164:G:H1	1:1G:1172:C:H42	1.61	0.49
1:1G:1441:G:O5'	1:1G:1441:G:H8	1.95	0.49
2:12:5:ILE:CG1	2:12:6:THR:HG22	2.41	0.49
2:12:84:GLU:HB3	2:12:219:VAL:HG11	1.93	0.49
5:42:104:ALA:HA	5:42:107:ARG:HH12	1.78	0.49
12:3A:27:LEU:HG	12:3A:33:ARG:HG2	1.95	0.49
13:4A:35:GLU:OE2	13:4A:36:LYS:HG2	2.13	0.49
24:3L:25:C:C2	24:3L:26:A:C8	3.01	0.49
26:14:177:G:H3'	26:14:178:G:H8	1.77	0.49
26:14:191:A:H2'	26:14:192:C:C6	2.48	0.49
26:14:270(E):G:H2'	26:14:270(F):U:C6	2.48	0.49
26:14:640:C:H42	26:14:648:G:H1	1.61	0.49
26:14:873:G:O3'	38:45:63:LYS:NZ	2.45	0.49
26:14:1389:G:H2'	26:14:1390:U:H6	1.78	0.49
26:14:1488:G:H2'	26:14:1489:U:H5'	1.95	0.49
26:14:1952:A:C6	26:14:1953:A:N1	2.80	0.49
26:14:2294:C:H5"	40:65:10:ARG:HD2	1.94	0.49
26:14:2299:G:N2	26:14:2317:C:O2	2.34	0.49
30:29:51:PHE:CD2	30:29:52:LEU:HB2	2.46	0.49
35:15:96:GLU:HB2	35:15:122:VAL:HG12	1.95	0.49
43:95:87:HIS:CE1	43:95:89:GLN:HB2	2.47	0.49
46:C5:96:ILE:HD12	46:C5:96:ILE:N	2.28	0.49
47:D5:17:ALA:O	47:D5:20:ARG:HB2	2.13	0.49
1:13:191(D):U:H2'	1:13:191(E):G:C8	2.48	0.49
1:13:296:U:O2'	1:13:556:C:O2'	2.08	0.49
1:13:1179:A:H2'	1:13:1180:A:O4'	2.13	0.49
1:13:1412:C:H2'	1:13:1413:A:C8	2.48	0.49
6:5E:5:GLU:N	6:5E:93:SER:OG	2.45	0.49
7:6E:122:HIS:HA	7:6E:125:MET:HB2	1.95	0.49
17:8I:76:LEU:HD11	17:8I:79:SER:H	1.78	0.49
23:2K:20:G:C2	23:2K:58:A:N3	2.80	0.49
24:3K:64:A:C2	24:3K:65:G:H1'	2.48	0.49
24:3K:69:G:H2'	24:3K:70:G:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:288:C:H2'	26:1H:289:A:H8	1.77	0.49
26:1H:582:G:H2'	26:1H:583:G:C8	2.48	0.49
26:1H:1026:U:H1'	26:1H:1027:A:O5'	2.13	0.49
26:1H:1268:A:H3'	59:1H:4357:HOH:O	2.11	0.49
26:1H:1439:A:H2'	26:1H:1440:G:O4'	2.12	0.49
26:1H:2313:C:C2'	26:1H:2314:C:H5'	2.42	0.49
26:1H:2801:A:H5'	26:1H:2895:U:C1'	2.42	0.49
26:1H:2807:G:H3'	26:1H:2808:U:C5'	2.41	0.49
26:1H:2849:U:H4'	26:1H:2868:A:C2	2.48	0.49
29:11:181:GLU:HG3	29:11:182:LEU:N	2.27	0.49
30:21:117:MET:O	30:21:118:LYS:HB3	2.13	0.49
33:51:8:PRO:HG2	33:51:69:ARG:NH2	2.28	0.49
34:61:8:PRO:HG3	34:61:14:ASP:HB2	1.94	0.49
37:78:124:LYS:HA	37:78:143:GLY:O	2.13	0.49
44:E8:96:ILE:HD13	44:E8:96:ILE:H	1.78	0.49
1:1G:323:U:H5'	20:BA:23:ARG:HB2	1.95	0.49
1:1G:1040:U:H2'	1:1G:1041:A:H8	1.78	0.49
1:1G:1067:A:H1'	1:1G:1068:G:C8	2.48	0.49
1:1G:1434:A:H61	1:1G:1467:G:H1'	1.78	0.49
3:22:40:ARG:O	3:22:44:GLU:N	2.42	0.49
6:52:61:LEU:HD23	6:52:63:TYR:OH	2.13	0.49
15:6A:4:THR:C	15:6A:6:GLU:N	2.70	0.49
21:1B:10:ARG:HA	21:1B:13:ILE:HD12	1.94	0.49
56:2L:25:U:H2'	56:2L:26:C:C6	2.48	0.49
26:14:249:C:H4'	26:14:250:G:O5'	2.13	0.49
26:14:1019:U:H3	26:14:1142(A):A:H62	1.60	0.49
26:14:1652:A:OP1	39:55:8:ARG:NH1	2.44	0.49
26:14:1906:G:C2	26:14:1907:G:C8	3.00	0.49
26:14:2001:A:H2'	26:14:2002:G:C8	2.47	0.49
26:14:2262:U:H4'	26:14:2328:A:C2	2.48	0.49
26:14:2494:G:H2'	26:14:2495:G:H8	1.77	0.49
26:14:2659:G:H2'	26:14:2661:G:OP2	2.13	0.49
26:14:2811:G:H1	26:14:2889:C:H42	1.59	0.49
29:19:223:GLY:HA3	29:19:231:HIS:ND1	2.27	0.49
34:69:128:LEU:O	34:69:138:ILE:HG22	2.12	0.49
41:75:98:LYS:HB3	41:75:100:TYR:CE2	2.48	0.49
43:95:52:VAL:CG1	43:95:55:ALA:HB3	2.43	0.49
49:F5:85:LEU:CA	49:F5:87:PRO:HD2	2.41	0.49
55:M5:57:ARG:CD	55:M5:57:ARG:N	2.76	0.49
1:13:123:C:H2'	1:13:124:G:O4'	2.12	0.49
1:13:244:U:H4'	1:13:245:C:O5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:598:U:H4'	8:7E:94:TYR:CD2	2.48	0.49
1:13:652:U:HO2'	1:13:653:A:P	2.36	0.49
2:1E:174:VAL:O	2:1E:178:ARG:HB2	2.12	0.49
7:6E:15:ASP:HB2	7:6E:23:VAL:HB	1.95	0.49
8:7E:120:THR:H	8:7E:123:GLU:HB2	1.77	0.49
10:1I:6:ILE:HD11	10:1I:72:VAL:HB	1.94	0.49
17:8I:88:TYR:CD1	17:8I:88:TYR:C	2.91	0.49
23:2K:48:U:H4'	23:2K:49:C:H5'	1.94	0.49
26:1H:68:G:H2'	26:1H:69:C:C6	2.48	0.49
26:1H:405:U:O2	26:1H:405:U:H2'	2.12	0.49
26:1H:771:G:N7	59:1H:4277:HOH:O	2.35	0.49
26:1H:1593:G:H2'	26:1H:1594:G:C8	2.48	0.49
26:1H:2881:C:H2'	26:1H:2882:A:C8	2.48	0.49
28:71:65:PRO:HB2	28:71:66:HIS:CE1	2.47	0.49
29:11:131:LEU:HD22	29:11:136:ILE:HD13	1.94	0.49
39:98:51:LEU:HD13	39:98:70:LEU:HD11	1.94	0.49
40:A8:34:HIS:HB3	40:A8:53:SER:OG	2.13	0.49
40:A8:74:ALA:HB1	40:A8:107:GLU:O	2.13	0.49
41:B8:16:ARG:NH2	41:B8:83:ILE:O	2.46	0.49
51:L8:4:LEU:HD11	51:L8:39:ASP:HA	1.95	0.49
54:P8:12:ARG:NH2	54:P8:44:PRO:HB3	2.28	0.49
1:1G:197:A:H3'	1:1G:197:A:OP2	2.12	0.49
1:1G:300:A:H1'	1:1G:565:U:O2	2.12	0.49
1:1G:433:C:H2'	1:1G:434:U:H6	1.77	0.49
1:1G:1004:A:OP1	1:1G:1024:G:N1	2.46	0.49
1:1G:1512:U:H2'	1:1G:1513:A:H8	1.77	0.49
2:12:73:THR:HG21	2:12:97:TRP:N	2.28	0.49
4:32:153:ARG:HH12	4:32:181:MET:HB2	1.78	0.49
15:6A:56:LEU:HA	15:6A:59:MET:HE3	1.95	0.49
18:9A:29:PHE:N	18:9A:29:PHE:CD1	2.79	0.49
26:14:355:G:H2'	26:14:356:G:C8	2.48	0.49
26:14:978:G:N3	26:14:978:G:H2'	2.28	0.49
26:14:1616:A:O2'	59:14:3557:HOH:O	2.01	0.49
26:14:1816:G:O6	29:19:35:LYS:NZ	2.42	0.49
26:14:2708:G:H5'	39:55:68:ARG:HB2	1.94	0.49
31:39:7:TYR:CD1	31:39:18:ARG:HB3	2.47	0.49
31:39:158:THR:HA	31:39:195:ASP:HB2	1.94	0.49
32:49:32:PRO:HB2	32:49:172:LEU:HD22	1.95	0.49
36:25:88:ASN:HB3	36:25:94:ARG:HD3	1.95	0.49
46:C5:19:LYS:C	46:C5:21:LYS:H	2.20	0.49
50:G5:15:LYS:H	50:G5:67:LYS:NZ	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:I5:62:ARG:HD2	52:I5:62:ARG:H	1.78	0.49
53:J5:3:LYS:NZ	53:J5:3:LYS:HA	2.28	0.49
1:13:46:G:H2'	1:13:366:C:H5	1.78	0.48
1:13:1053:G:O6	1:13:1199:U:H2'	2.12	0.48
1:13:1206:G:C6	1:13:1207:G:C6	3.01	0.48
1:13:1347:G:H22	1:13:1374:A:P	2.37	0.48
1:13:1389:C:H2'	1:13:1390:U:O4'	2.12	0.48
1:13:1394:A:C6	1:13:1501:C:H4'	2.48	0.48
2:1E:20:GLU:HG3	2:1E:191:ASP:N	2.28	0.48
24:3K:40:C:H2'	24:3K:41:C:H6	1.78	0.48
26:1H:300:A:N3	26:1H:319:C:H1'	2.28	0.48
26:1H:620:G:N2	26:1H:620:G:OP2	2.40	0.48
26:1H:1313:U:H4'	26:1H:1332:G:H4'	1.94	0.48
26:1H:2575:C:O2'	30:21:140:SER:HB2	2.13	0.48
26:1H:2857:G:N2	26:1H:2860:A:OP2	2.38	0.48
29:11:30:GLU:O	29:11:33:LEU:N	2.41	0.48
31:31:9:ILE:HG12	31:31:10:PRO:CD	2.42	0.48
34:61:138:ILE:HG12	34:61:139:GLN:H	1.77	0.48
35:58:13:TRP:O	35:58:135:PRO:HD2	2.13	0.48
38:88:34:LEU:HD23	38:88:104:PHE:CD2	2.48	0.48
41:B8:110:ILE:HG22	41:B8:111:ARG:HD3	1.95	0.48
42:C8:102:GLU:HG3	43:D8:2:PHE:CZ	2.48	0.48
43:D8:19:LYS:HG3	43:D8:95:LEU:HD23	1.94	0.48
44:E8:88:ARG:HB3	44:E8:92:ARG:CB	2.37	0.48
1:1G:421:U:O2'	1:1G:423:G:N7	2.45	0.48
1:1G:552:U:O2'	12:3A:86:ARG:O	2.30	0.48
1:1G:980:C:H5'	1:1G:981:U:C5	2.47	0.48
1:1G:1124:G:OP1	10:1A:36:GLY:HA3	2.13	0.48
1:1G:1269:A:H5"	1:1G:1270:C:OP2	2.13	0.48
2:12:4:GLU:N	2:12:59:GLU:OE2	2.46	0.48
4:32:9:CYS:SG	4:32:22:LYS:HD2	2.53	0.48
4:32:18:LYS:HD3	4:32:31:CYS:SG	2.53	0.48
5:42:92:LYS:HE2	8:72:105:ARG:HH21	1.76	0.48
26:14:868:U:C2	26:14:869:G:C8	3.01	0.48
26:14:1534:G:H3'	26:14:1535:U:C5'	2.43	0.48
26:14:2003:G:H8	26:14:2003:G:O5'	1.96	0.48
26:14:2062:A:HO2'	26:14:2063:C:P	2.34	0.48
26:14:2244:U:O2'	26:14:2245:U:H5'	2.12	0.48
26:14:2256:G:O6	59:14:3977:HOH:O	2.17	0.48
26:14:2869:G:H2'	26:14:2870:C:O4'	2.13	0.48
31:39:64:ILE:C	31:39:65:TRP:CD1	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:171:ALA:O	32:49:175:LEU:N	2.33	0.48
33:59:22:GLY:O	33:59:37:VAL:HG12	2.13	0.48
36:25:68:GLU:HB3	36:25:78:ARG:HB3	1.95	0.48
37:35:64:LYS:HD2	55:M5:30:ARG:NH1	2.28	0.48
38:45:3:MET:HB2	38:45:93:TYR:CD1	2.48	0.48
38:45:114:ALA:O	38:45:118:LEU:HB2	2.13	0.48
41:75:64:ARG:NH1	41:75:103:ARG:HA	2.27	0.48
41:75:113:LYS:O	41:75:114:LEU:HD23	2.13	0.48
1:13:221:C:H2'	1:13:222:U:H6	1.76	0.48
1:13:688:G:H2'	1:13:689:C:C6	2.45	0.48
13:4I:66:LEU:O	13:4I:70:LEU:HB2	2.14	0.48
16:7I:23:ASP:O	16:7I:26:ARG:HB2	2.13	0.48
24:3K:10:G:C2	24:3K:26:A:C5	3.01	0.48
26:1H:529:A:C8	26:1H:530:G:C6	3.00	0.48
26:1H:1287:A:C8	39:98:107:ASP:HB2	2.48	0.48
26:1H:1411:C:H2'	26:1H:1412:A:C8	2.48	0.48
26:1H:1889:A:H2'	26:1H:1890:A:C8	2.48	0.48
26:1H:2489:G:OP2	59:1H:4151:HOH:O	2.20	0.48
29:11:71:ASP:CB	29:11:103:ARG:HH22	2.21	0.48
33:51:68:THR:O	33:51:72:ILE:HD12	2.14	0.48
36:68:75:SER:HB2	41:B8:74:ARG:HH12	1.78	0.48
37:78:24:GLY:C	37:78:26:GLY:N	2.70	0.48
46:G8:68:HIS:HB3	46:G8:71:LYS:HG2	1.94	0.48
1:1G:278:G:N7	17:8A:92:ARG:NH2	2.60	0.48
12:3A:58:VAL:N	12:3A:66:VAL:O	2.32	0.48
24:3L:6:G:N2	24:3L:67:C:O2	2.37	0.48
26:14:86:C:HO2'	26:14:104:U:HO2'	1.53	0.48
26:14:1109:C:H2'	26:14:1110:G:C4	2.48	0.48
26:14:1287:A:C5	26:14:1288:U:C4	3.01	0.48
26:14:1388:G:H2'	26:14:1389:G:C8	2.44	0.48
26:14:2287:A:H5"	26:14:2287:A:C8	2.48	0.48
26:14:2774:C:H2'	26:14:2775:A:H8	1.79	0.48
27:1J:24:G:H4'	27:1J:25:A:H8	1.77	0.48
30:29:47:VAL:HG21	30:29:85:ASN:HA	1.95	0.48
31:39:59:TYR:CD2	31:39:78:ILE:HG12	2.47	0.48
32:49:76:SER:OG	32:49:84:LYS:N	2.45	0.48
33:59:92:ILE:HD11	33:59:160:LYS:HZ2	1.78	0.48
42:85:82:GLY:O	42:85:86:ALA:N	2.39	0.48
1:13:255:G:C2'	1:13:256:U:H5'	2.43	0.48
1:13:957:U:H1'	1:13:960:U:N3	2.28	0.48
1:13:983:A:OP1	14:5I:3:ARG:NH2	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1448:C:H42	1:13:1455:G:H1	1.60	0.48
2:1E:56:ARG:NH1	2:1E:56:ARG:HB2	2.29	0.48
15:6I:6:GLU:CD	15:6I:6:GLU:H	2.22	0.48
16:7I:53:VAL:HG13	16:7I:79:VAL:HG22	1.94	0.48
20:BI:41:ILE:HD12	20:BI:42:GLN:N	2.28	0.48
26:1H:730:C:H3'	59:1H:3597:HOH:O	2.12	0.48
26:1H:1359:A:H2'	26:1H:1360:A:H5'	1.94	0.48
26:1H:1695:G:H2'	26:1H:1696:G:O4'	2.12	0.48
26:1H:1956:U:H1'	26:1H:2552:U:OP1	2.13	0.48
26:1H:2259:G:C2	26:1H:2282:G:C6	3.01	0.48
26:1H:2488:A:OP2	59:1H:4153:HOH:O	2.20	0.48
29:11:108:PRO:HG3	29:11:143:HIS:HE1	1.77	0.48
32:41:151:ALA:HB3	32:41:153:ARG:HH12	1.77	0.48
39:98:10:LEU:O	39:98:12:ARG:N	2.46	0.48
40:A8:26:LEU:CD2	40:A8:87:PHE:HD1	2.27	0.48
45:F8:61:GLY:N	45:F8:75:ASP:OD1	2.41	0.48
55:Q8:21:LYS:HZ3	55:Q8:22:VAL:N	2.11	0.48
1:1G:179:A:H2'	1:1G:180:U:C6	2.47	0.48
1:1G:756:C:H2'	1:1G:757:U:O4'	2.12	0.48
1:1G:1084:G:C5	1:1G:1085:U:C4	3.01	0.48
3:22:126:ARG:HB3	3:22:128:PHE:HD1	1.76	0.48
4:32:150:GLU:C	4:32:152:SER:N	2.71	0.48
6:52:39:LYS:HE2	6:52:62:TRP:CZ3	2.46	0.48
8:72:85:ARG:NH1	8:72:134:ILE:HG23	2.28	0.48
11:2A:98:LEU:HA	11:2A:101:SER:HB3	1.95	0.48
15:6A:10:LYS:HD2	15:6A:10:LYS:HA	1.55	0.48
19:AA:9:VAL:HG13	52:I5:63:TYR:CE1	2.41	0.48
26:14:1187:G:OP2	59:14:3597:HOH:O	2.20	0.48
26:14:1448:G:H1'	26:14:1528:A:H62	1.78	0.48
26:14:1810:A:H2'	26:14:1811:G:O4'	2.13	0.48
26:14:2119:A:C2	26:14:2171:A:H1'	2.48	0.48
26:14:2227:A:O3'	29:19:261:LYS:NZ	2.45	0.48
26:14:2689:U:H5"	26:14:2713:A:C2	2.43	0.48
26:14:2723:C:OP1	39:55:3:HIS:CD2	2.66	0.48
27:1J:14:U:H5"	27:1J:70:C:O2'	2.13	0.48
30:29:89:ASP:CG	30:29:90:THR:H	2.20	0.48
30:29:89:ASP:OD1	30:29:90:THR:N	2.47	0.48
31:39:28:ILE:HD13	31:39:119:ARG:NH2	2.28	0.48
33:59:60:ARG:O	33:59:64:LEU:HG	2.12	0.48
34:69:139:GLN:CD	34:69:141:LYS:HZ1	2.14	0.48
36:25:104:ARG:HH12	41:75:36:GLU:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:75:27:THR:HG23	41:75:90:GLN:HB3	1.95	0.48
47:D5:28:MET:O	47:D5:34:ASN:HA	2.12	0.48
1:13:797:C:OP1	11:2I:124:LYS:HE2	2.13	0.48
1:13:1287:A:H2'	1:13:1288:A:C8	2.48	0.48
2:1E:73:THR:OG1	2:1E:170:GLU:OE2	2.27	0.48
4:3E:141:ARG:HB2	4:3E:141:ARG:NH1	2.27	0.48
6:5E:50:TYR:CE2	18:9I:77:GLY:HA2	2.48	0.48
7:6E:18:TYR:CD1	7:6E:59:LEU:HD12	2.48	0.48
13:4I:60:VAL:HG12	13:4I:66:LEU:HD11	1.94	0.48
17:8I:28:PRO:HA	17:8I:34:LYS:O	2.14	0.48
18:9I:52:PRO:C	18:9I:56:THR:HG23	2.39	0.48
19:AI:41:VAL:HG11	19:AI:67:VAL:HA	1.93	0.48
23:2K:47:7MG:H81	23:2K:48:U:C5	2.45	0.48
26:1H:155:C:H5"	26:1H:155:C:H6	1.78	0.48
26:1H:699:A:H2'	26:1H:700:G:O4'	2.14	0.48
26:1H:863:A:N7	59:1H:3929:HOH:O	2.33	0.48
26:1H:970:C:HO2'	26:1H:984:A:HO2'	1.59	0.48
26:1H:1025:G:C4	26:1H:1135:C:H1'	2.49	0.48
26:1H:1301:A:C8	26:1H:1303:G:C8	3.01	0.48
26:1H:1693:U:H4'	26:1H:1694:C:OP2	2.13	0.48
26:1H:1870:C:H2'	26:1H:1871:A:O4'	2.13	0.48
26:1H:2693:A:H2'	26:1H:2694:G:C8	2.48	0.48
26:1H:2711:A:P	59:1H:3576:HOH:O	2.71	0.48
28:71:47:LEU:HB2	28:71:170:ALA:HA	1.96	0.48
30:21:68:ALA:C	30:21:70:ALA:H	2.21	0.48
32:41:125:PHE:HA	32:41:130:ASN:O	2.13	0.48
32:41:173:LEU:HD22	32:41:178:PHE:HE2	1.79	0.48
34:61:93:THR:HA	34:61:119:PRO:HB3	1.94	0.48
36:68:113:LYS:NZ	36:68:117:LEU:HD21	2.28	0.48
38:88:58:PHE:HZ	38:88:106:VAL:HG11	1.79	0.48
45:F8:67:GLY:O	45:F8:69:TYR:N	2.44	0.48
50:K8:5:GLU:HG3	50:K8:7:ARG:HD3	1.95	0.48
51:L8:38:GLU:H	51:L8:38:GLU:CD	2.02	0.48
55:Q8:21:LYS:HZ2	55:Q8:21:LYS:C	2.21	0.48
55:Q8:43:GLN:CD	55:Q8:43:GLN:N	2.71	0.48
1:1G:838:G:H8	1:1G:838:G:O5'	1.95	0.48
1:1G:1046:A:H3'	1:1G:1047:G:C8	2.48	0.48
1:1G:1528:U:H5'	1:1G:1529:G:H21	1.79	0.48
2:12:45:GLN:OE1	2:12:46:LYS:NZ	2.25	0.48
3:22:61:ALA:O	3:22:63:ASN:N	2.44	0.48
8:72:44:PHE:HD1	8:72:80:ILE:HG13	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:82:10:ARG:HA	9:82:104:ARG:HH21	1.77	0.48
11:2A:43:SER:OG	11:2A:44:SER:N	2.46	0.48
19:AA:53:ASN:HA	19:AA:77:THR:HG22	1.94	0.48
24:3L:35:A:H2'	24:3L:36:A:O4'	2.14	0.48
26:14:117:G:C6	26:14:119:A:C6	3.01	0.48
26:14:828:U:H4'	26:14:831:G:N1	2.28	0.48
26:14:1204:A:HO2'	26:14:1205:U:P	2.35	0.48
26:14:1528:A:N6	26:14:1529:A:N1	2.62	0.48
26:14:2467:C:H2'	26:14:2468:G:O4'	2.13	0.48
26:14:2773:C:OP1	30:29:164:ARG:NE	2.46	0.48
47:D5:11:GLU:OE2	47:D5:12:GLY:N	2.46	0.48
52:I5:37:SER:O	52:I5:44:THR:HG21	2.12	0.48
1:13:165:C:H2'	1:13:166:G:C8	2.49	0.48
1:13:234:C:H2'	1:13:235:C:C6	2.49	0.48
1:13:426:G:H2'	1:13:427:U:H6	1.75	0.48
1:13:439:A:H3'	1:13:440:A:H8	1.79	0.48
1:13:481:G:O2'	1:13:483:C:N4	2.41	0.48
1:13:615:C:C2	1:13:616:G:C8	3.02	0.48
1:13:947:G:C6	1:13:948:C:N3	2.82	0.48
1:13:953:G:N7	13:4I:104:ARG:NH2	2.49	0.48
1:13:963:G:N2	1:13:972:C:N3	2.47	0.48
1:13:968:A:H4'	1:13:969:A:OP2	2.13	0.48
1:13:977:A:C8	1:13:1223:C:C4	3.01	0.48
1:13:1501:C:N4	1:13:1504:G:C2	2.81	0.48
4:3E:165:MET:HA	4:3E:168:ARG:HG3	1.96	0.48
23:2K:62:C:H2'	23:2K:63:C:C6	2.46	0.48
26:1H:141:A:H8	26:1H:1408:C:H1'	1.78	0.48
26:1H:467:G:OP2	54:P8:34:ARG:NH1	2.46	0.48
26:1H:945:A:C2	26:1H:2448:A:C6	3.01	0.48
26:1H:1543:A:C2	26:1H:1545:A:C4	3.02	0.48
26:1H:1674:G:N2	26:1H:1677:A:N1	2.53	0.48
26:1H:1680:U:O2'	26:1H:1763:G:N7	2.42	0.48
26:1H:2122:U:H1'	28:71:166:ASP:HB3	1.96	0.48
26:1H:2469:A:H61	26:1H:2481:G:H1'	1.79	0.48
26:1H:2598:A:P	59:1H:3555:HOH:O	2.71	0.48
27:16:11:C:OP2	27:16:12:C:N4	2.41	0.48
28:71:45:ALA:HA	28:71:212:VAL:HA	1.96	0.48
30:21:38:THR:CG2	30:21:41:LYS:H	2.25	0.48
37:78:18:ARG:C	37:78:19:VAL:HG22	2.38	0.48
44:E8:41:LYS:HE3	53:N8:25:LEU:HD23	1.94	0.48
51:L8:21:ALA:O	51:L8:24:LYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:244:U:C5	1:1G:894:G:C2	3.01	0.48
1:1G:579:G:O3'	15:6A:54:ARG:NH2	2.46	0.48
1:1G:1325:C:H5"	21:1B:17:THR:HG21	1.96	0.48
4:32:32:ALA:O	4:32:35:ARG:HB2	2.13	0.48
4:32:94:LEU:O	4:32:98:GLU:N	2.43	0.48
4:32:116:GLN:O	4:32:120:LEU:HG	2.13	0.48
7:62:15:ASP:O	7:62:19:GLY:HA2	2.14	0.48
13:4A:86:CYS:SG	13:4A:88:ARG:HB3	2.53	0.48
26:14:245:G:C2	26:14:246:C:C6	3.01	0.48
26:14:442:G:C6	26:14:444:C:N4	2.81	0.48
26:14:459:U:H2'	26:14:460:A:H8	1.78	0.48
26:14:489:G:N7	44:A5:49:LYS:NZ	2.59	0.48
26:14:864:G:H1'	26:14:914:C:N4	2.29	0.48
26:14:954:G:C5	26:14:955:C:C5	3.01	0.48
26:14:1495:A:O2'	26:14:1496:A:H5'	2.13	0.48
26:14:1533:C:C4	26:14:1534:G:H1'	2.48	0.48
26:14:1639:U:C2'	26:14:1640:C:H5'	2.44	0.48
26:14:2092:U:H4'	26:14:2093:G:O5'	2.13	0.48
26:14:2259:G:N2	26:14:2282:G:C2	2.82	0.48
26:14:2416:C:OP1	37:35:64:LYS:HG3	2.13	0.48
26:14:2468:G:N2	26:14:2481:G:O2'	2.28	0.48
26:14:2533:A:O4'	26:14:2664:G:H4'	2.13	0.48
26:14:2694:G:C4	26:14:2695:C:C5	3.01	0.48
26:14:2697:G:H2'	26:14:2698:U:O4'	2.13	0.48
32:49:41:GLN:NE2	32:49:154:GLY:O	2.26	0.48
33:59:92:ILE:HD11	33:59:160:LYS:NZ	2.29	0.48
34:69:1:MET:N	34:69:20:ASP:OD1	2.46	0.48
48:E5:26:TYR:N	48:E5:29:GLN:OE1	2.46	0.48
1:13:538:G:OP2	12:3I:115:LYS:HG3	2.13	0.48
1:13:1060:C:OP1	14:5I:45:ARG:NH2	2.46	0.48
1:13:1111:A:H8	1:13:1111:A:O5'	1.97	0.48
1:13:1285:A:H4'	1:13:1286:A:H5'	1.96	0.48
2:1E:80:ILE:HD12	2:1E:80:ILE:H	1.79	0.48
2:1E:126:GLU:HA	2:1E:129:GLU:HG2	1.95	0.48
3:2E:40:ARG:O	3:2E:44:GLU:HG2	2.14	0.48
5:4E:83:GLU:HG3	5:4E:88:LYS:HG3	1.96	0.48
8:7E:45:ILE:HB	8:7E:47:GLY:H	1.77	0.48
9:8E:89:ASN:C	9:8E:91:ASP:H	2.21	0.48
19:AI:32:LYS:HB3	19:AI:50:ALA:HB3	1.95	0.48
26:1H:1016:G:O6	59:1H:4211:HOH:O	2.20	0.48
26:1H:1181:C:O2'	26:1H:1182:A:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1339:G:N2	26:1H:1340:U:O4	2.46	0.48
26:1H:1411:C:H2'	26:1H:1412:A:H8	1.78	0.48
26:1H:1786:A:C2	26:1H:2606:C:H1'	2.44	0.48
26:1H:2253:G:H2'	26:1H:2254:C:C6	2.48	0.48
26:1H:2319:G:N7	40:A8:3:ARG:HB3	2.28	0.48
26:1H:2359:C:H2'	26:1H:2360:A:C8	2.48	0.48
27:16:42:C:O2'	32:41:67:LYS:HE3	2.13	0.48
28:71:183:GLU:HG2	28:71:184:LYS:HZ1	1.79	0.48
31:31:23:ASP:CG	31:31:24:LEU:H	2.22	0.48
33:51:3:ARG:HH21	33:51:7:LEU:HD11	1.78	0.48
37:78:31:ALA:O	37:78:32:THR:HG22	2.12	0.48
46:G8:31:LEU:HD12	46:G8:36:ALA:O	2.13	0.48
50:K8:42:GLY:C	50:K8:44:LEU:N	2.70	0.48
55:Q8:33:ASN:O	55:Q8:34:TRP:CD1	2.67	0.48
1:1G:1173:G:H2'	1:1G:1174:G:O4'	2.13	0.48
2:12:70:PHE:HB2	2:12:92:TYR:HB2	1.95	0.48
26:14:380:U:H5'	49:F5:18:ILE:HD12	1.94	0.48
26:14:563:G:H2'	26:14:564:C:H6	1.79	0.48
26:14:1144:G:C2	26:14:1145:C:C2	3.02	0.48
26:14:1287:A:OP2	39:55:104:ARG:HB3	2.13	0.48
26:14:1348:G:C2'	26:14:1349:A:H5"	2.43	0.48
26:14:1678:G:H22	26:14:1989:G:H1	1.60	0.48
26:14:2056:G:H2'	26:14:2056:G:N3	2.28	0.48
26:14:2113:U:O4	26:14:2168:G:O2'	2.30	0.48
26:14:2305:A:H2'	26:14:2306:C:O4'	2.13	0.48
27:1J:113:C:O2'	40:65:46:VAL:HG13	2.13	0.48
36:25:93:PRO:CD	36:25:113:LYS:HG3	2.43	0.48
42:85:25:TRP:CD1	42:85:25:TRP:C	2.91	0.48
48:E5:45:PHE:O	48:E5:59:LEU:HD11	2.13	0.48
48:E5:51:VAL:N	48:E5:62:LEU:HD12	2.28	0.48
52:I5:23:GLU:HG3	52:I5:24:THR:H	1.79	0.48
1:13:295:C:H2'	1:13:296:U:O4'	2.12	0.48
1:13:824:C:H4'	8:7E:1:MET:HG3	1.96	0.48
1:13:1108:G:C5	1:13:1109:C:C5	3.01	0.48
1:13:1222:G:H2'	1:13:1223:C:O4'	2.12	0.48
2:1E:62:ALA:HB3	2:1E:225:ALA:HB3	1.95	0.48
2:1E:101:MET:HA	2:1E:108:ILE:HG13	1.96	0.48
22:1K:10:G:H2'	22:1K:11:A:C8	2.48	0.48
24:3K:21:A:N6	24:3K:48:C:O2	2.47	0.48
26:1H:586:A:P	59:1H:3823:HOH:O	2.71	0.48
26:1H:780:G:C2	26:1H:782:A:C2	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:879:G:O6	26:1H:898:C:N4	2.46	0.48
26:1H:902:C:H2'	26:1H:903:C:H6	1.78	0.48
26:1H:1024:G:O6	26:1H:1025:G:N1	2.47	0.48
26:1H:1101:U:H2'	26:1H:1102:C:C6	2.49	0.48
26:1H:1186:G:H2'	26:1H:1187:G:O4'	2.14	0.48
26:1H:1309:G:P	59:1H:3778:HOH:O	2.71	0.48
26:1H:1665:A:N7	59:1H:4031:HOH:O	2.35	0.48
26:1H:1992:G:C2	26:1H:1997:G:C5	3.01	0.48
26:1H:2726:U:O2'	26:1H:2727:G:H8	1.96	0.48
39:98:53:HIS:HB2	39:98:94:TYR:HE2	1.79	0.48
53:N8:46:CYS:H	53:N8:50:GLY:HA2	1.79	0.48
1:1G:109:A:C6	1:1G:326:G:C6	3.01	0.48
1:1G:284:G:H2'	1:1G:285:G:H8	1.79	0.48
1:1G:359:U:H2'	1:1G:360:A:H8	1.72	0.48
1:1G:1493:A:H2'	26:14:1913:A:N6	2.27	0.48
4:32:39:PRO:O	4:32:44:GLY:HA3	2.12	0.48
7:62:25:ALA:HA	7:62:28:ASN:ND2	2.29	0.48
11:2A:82:VAL:HG13	11:2A:108:ILE:HG12	1.95	0.48
11:2A:111:ASP:OD1	18:9A:84:LYS:HD3	2.14	0.48
17:8A:26:GLN:HB3	17:8A:37:LYS:HG2	1.95	0.48
56:2L:36:A:H2'	56:2L:37:U:H6	1.78	0.48
26:14:443:A:H5"	26:14:444:C:OP1	2.13	0.48
26:14:1167:U:O2	26:14:1183:G:N2	2.45	0.48
26:14:1288:U:C2	26:14:1327:C:O2	2.66	0.48
26:14:1295:C:O4'	39:55:23:ASN:ND2	2.40	0.48
26:14:1377:G:H8	26:14:1377:G:O5'	1.96	0.48
26:14:2748:A:H2'	26:14:2749:A:H8	1.79	0.48
26:14:2839:G:C5'	39:55:46:GLY:HA2	2.43	0.48
26:14:2857:G:N2	26:14:2859:G:H3'	2.29	0.48
27:1J:80:U:C2	27:1J:81:G:N2	2.81	0.48
29:19:231:HIS:CD2	29:19:232:PRO:HD2	2.48	0.48
31:39:135:LYS:HD2	31:39:135:LYS:HA	1.64	0.48
33:59:27:LYS:NZ	33:59:28:GLY:O	2.34	0.48
35:15:128:HIS:HB2	35:15:129:PRO:HD2	1.94	0.48
36:25:59:LYS:C	36:25:87:ILE:HG22	2.39	0.48
39:55:86:ARG:HH21	39:55:118:GLU:HA	1.79	0.48
40:65:88:ASP:OD2	40:65:90:GLY:N	2.46	0.48
41:75:3:ARG:HG2	41:75:4:GLY:N	2.28	0.48
46:C5:19:LYS:CG	46:C5:20:TYR:H	2.24	0.48
47:D5:10:ARG:HB3	47:D5:36:LYS:HG3	1.95	0.48
1:13:74:C:H2'	1:13:75:C:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:113:G:O4'	1:13:354:G:H4'	2.13	0.48
1:13:414:A:H2'	1:13:415:A:O4'	2.13	0.48
1:13:449:C:H5	16:7I:42:ARG:HH11	1.62	0.48
1:13:793:U:H5'	1:13:794:A:H5"	1.95	0.48
1:13:815:A:OP2	1:13:816:A:H5"	2.14	0.48
1:13:1064:G:OP1	1:13:1386:G:H4'	2.14	0.48
2:1E:124:SER:HB2	2:1E:125:PRO:HD2	1.95	0.48
12:3I:93:LEU:O	12:3I:96:VAL:HG12	2.13	0.48
16:7I:77:ALA:HB3	16:7I:79:VAL:H	1.77	0.48
23:2K:60:A:H2'	23:2K:61:U:H5'	1.95	0.48
26:1H:483:A:H5"	46:G8:50:ARG:HE	1.79	0.48
26:1H:639:U:O2'	26:1H:640:C:H5'	2.13	0.48
26:1H:1216:G:P	42:C8:12:ARG:HH21	2.37	0.48
26:1H:1333:C:OP2	59:1H:3889:HOH:O	2.20	0.48
26:1H:1394:U:C5	26:1H:1395:A:C4	3.02	0.48
26:1H:1636:C:P	59:1H:3508:HOH:O	2.72	0.48
26:1H:2329:G:N2	48:I8:41:ARG:HG3	2.29	0.48
26:1H:2340:G:O2'	26:1H:2341:G:H5'	2.13	0.48
28:71:66:HIS:HB2	28:71:188:ASN:ND2	2.29	0.48
30:21:109:LYS:HE2	30:21:191:PRO:HA	1.95	0.48
31:31:7:TYR:O	31:31:21:ALA:HA	2.14	0.48
38:88:109:VAL:CG1	38:88:113:GLN:HB3	2.40	0.48
39:98:96:ARG:HD2	39:98:115:GLU:CG	2.44	0.48
1:1G:393:A:OP2	16:7A:12:LYS:HD3	2.14	0.48
1:1G:631:G:C3'	1:1G:632:A:H8	2.26	0.48
1:1G:1010:G:H2'	1:1G:1011:G:O4'	2.14	0.48
1:1G:1260:C:OP1	1:1G:1284:C:H4'	2.14	0.48
1:1G:1362:C:H2'	1:1G:1362(A):C:H5"	1.96	0.48
3:22:33:LEU:O	3:22:36:ASP:N	2.47	0.48
3:22:91:LEU:HD12	3:22:99:VAL:HB	1.96	0.48
12:3A:6:THR:OG1	12:3A:9:GLN:HG3	2.14	0.48
19:AA:50:ALA:HA	19:AA:58:VAL:O	2.14	0.48
20:BA:98:PRO:C	20:BA:100:ILE:H	2.21	0.48
26:14:139:G:H1'	26:14:140:A:C2	2.49	0.48
26:14:212:G:H2'	26:14:213:A:O4'	2.14	0.48
26:14:315:G:H2'	26:14:316:C:C6	2.49	0.48
26:14:768:G:H2'	26:14:769:G:H8	1.77	0.48
26:14:1291:C:H2'	26:14:1292:U:C6	2.48	0.48
26:14:1575:C:O2'	26:14:1576:U:H5'	2.14	0.48
26:14:1860:G:H1	26:14:1882:C:H42	1.61	0.48
26:14:1986:A:H2'	26:14:1987:G:H8	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2120:G:H2'	26:14:2121:G:H8	1.78	0.48
26:14:2142:C:H2'	26:14:2143:C:C6	2.49	0.48
26:14:2749:A:O3'	33:59:62:LYS:NZ	2.38	0.48
27:1J:38:C:O5'	27:1J:38:C:H6	1.97	0.48
27:1J:117:G:C2	27:1J:118:G:C5	3.02	0.48
32:49:63:ILE:HD12	32:49:141:PHE:CD2	2.49	0.48
34:69:117:GLU:OE1	34:69:118:LYS:HG2	2.13	0.48
39:55:20:LEU:O	39:55:24:GLN:HG3	2.12	0.48
43:95:71:LEU:HD13	43:95:71:LEU:HA	1.73	0.48
48:E5:38:VAL:HB	48:E5:59:LEU:HD12	1.95	0.48
50:G5:63:VAL:O	50:G5:67:LYS:HB2	2.14	0.48
1:13:49:U:C4	1:13:364:A:C6	3.02	0.48
1:13:143:A:H2	1:13:220:G:H22	1.61	0.48
1:13:1192:C:OP2	3:2E:4:LYS:NZ	2.47	0.48
1:13:1246:C:C4	1:13:1247:U:C4	3.02	0.48
1:13:1273:G:H3'	1:13:1274:G:C8	2.49	0.48
1:13:1390:U:H2'	1:13:1391:U:C6	2.49	0.48
1:13:1410:G:H2'	1:13:1411:C:C6	2.48	0.48
4:3E:62:GLN:O	4:3E:66:ARG:HD3	2.14	0.48
4:3E:96:LEU:HD12	4:3E:139:ARG:NH1	2.25	0.48
8:7E:8:ASP:OD2	8:7E:12:ARG:HD2	2.13	0.48
15:6I:8:LYS:O	15:6I:12:ILE:HG13	2.13	0.48
20:BI:75:ASN:OD1	20:BI:75:ASN:N	2.44	0.48
24:3K:20:U:H5"	24:3K:20:U:H6	1.79	0.48
26:1H:40:C:H2'	26:1H:41:C:C6	2.48	0.48
26:1H:270(J):G:H2'	26:1H:270(K):C:O4'	2.14	0.48
26:1H:415:A:H2'	26:1H:416:C:O4'	2.14	0.48
26:1H:507:A:H5"	26:1H:508:G:H3'	1.95	0.48
26:1H:725:G:C6	26:1H:726:G:N1	2.82	0.48
26:1H:751:A:C6	26:1H:789:A:C5	3.02	0.48
26:1H:1203:G:OP2	26:1H:1204:A:H2'	2.14	0.48
26:1H:1728:G:H8	26:1H:1732:A:H62	1.62	0.48
26:1H:2085:C:O3'	29:11:262:ARG:HD3	2.12	0.48
26:1H:2228:G:H2'	26:1H:2229:C:C6	2.49	0.48
26:1H:2734:A:H3'	26:1H:2735:G:H8	1.78	0.48
26:1H:2881:C:O2'	39:98:96:ARG:HA	2.14	0.48
30:21:92:THR:HB	30:21:94:GLU:HG2	1.95	0.48
32:41:172:LEU:O	32:41:176:LEU:HD12	2.14	0.48
37:78:84:ASN:HA	37:78:115:LEU:O	2.13	0.48
39:98:21:TYR:HB3	39:98:47:PHE:CD2	2.49	0.48
46:G8:35:TYR:CD2	46:G8:69:ALA:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:H8:14:LYS:HA	47:H8:15:PRO:HD2	1.72	0.48
51:L8:7:LYS:HA	51:L8:34:GLU:HA	1.96	0.48
52:M8:59:PHE:O	52:M8:63:TYR:HB2	2.14	0.48
1:1G:897:C:H2'	1:1G:898:G:C8	2.47	0.48
1:1G:1187:G:H4'	9:82:111:ARG:HH11	1.79	0.48
1:1G:1272:G:H2'	1:1G:1273:G:O4'	2.14	0.48
1:1G:1478:C:H2'	1:1G:1479:C:C6	2.49	0.48
3:22:179:ARG:NE	3:22:206:GLU:OE2	2.47	0.48
4:32:18:LYS:HD2	4:32:20:TYR:CE1	2.48	0.48
5:42:121:LYS:NZ	5:42:123:LEU:HD23	2.27	0.48
8:72:82:HIS:HB3	8:72:138:TRP:CE3	2.48	0.48
13:4A:50:GLU:O	13:4A:54:VAL:HG23	2.14	0.48
19:AA:51:VAL:HB	19:AA:75:ALA:HB3	1.96	0.48
26:14:49:A:H5"	26:14:51:G:O4'	2.14	0.48
26:14:83:G:N2	26:14:102:G:H2'	2.29	0.48
26:14:242:G:C8	55:M5:5:LYS:HG2	2.49	0.48
26:14:363:G:H2'	26:14:363(A):A:H8	1.78	0.48
26:14:1728:G:C6	26:14:1730:U:OP2	2.67	0.48
26:14:1849:G:H2'	26:14:1850:G:C8	2.45	0.48
26:14:1971:A:H5"	59:14:3466:HOH:O	2.12	0.48
26:14:2002:G:C5	59:14:3793:HOH:O	2.65	0.48
26:14:2074:U:H2'	26:14:2075:U:C6	2.49	0.48
27:1J:50:G:OP1	40:65:62:LYS:HB2	2.14	0.48
31:39:143:ALA:HB1	31:39:148:LEU:HB3	1.95	0.48
34:69:117:GLU:H	34:69:117:GLU:CD	2.19	0.48
35:15:41:ASP:HB3	35:15:48:MET:HE2	1.95	0.48
36:25:22:ILE:HA	36:25:22:ILE:HD12	1.47	0.48
37:35:82:GLY:HA2	37:35:113:LYS:O	2.13	0.48
37:35:144:GLU:CD	37:35:144:GLU:N	2.71	0.48
42:85:47:TYR:HD2	43:95:74:LYS:HD3	1.79	0.48
42:85:52:ARG:NH1	42:85:56:ASP:OD2	2.46	0.48
43:95:20:LEU:C	43:95:93:GLU:HG3	2.38	0.48
43:95:52:VAL:HG11	43:95:55:ALA:HB3	1.96	0.48
44:A5:27:LYS:O	44:A5:71:VAL:HG23	2.14	0.48
46:C5:83:THR:HG22	46:C5:84:ARG:H	1.79	0.48
47:D5:19:ARG:HE	47:D5:19:ARG:HB2	1.40	0.48
1:13:198:G:C2	1:13:199:G:C8	3.01	0.48
1:13:648:A:C6	1:13:649:G:C5	3.01	0.48
1:13:1037:C:H2'	1:13:1038:C:C6	2.49	0.48
1:13:1161:C:H2'	1:13:1162:C:C6	2.49	0.48
1:13:1263:C:H2'	1:13:1264:C:C6	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:8E:17:VAL:HG11	9:8E:81:ILE:HD13	1.96	0.48
10:1I:89:ASP:N	10:1I:89:ASP:OD1	2.46	0.48
13:4I:13:LYS:NZ	13:4I:13:LYS:HA	2.29	0.48
14:5I:26:ARG:NH1	14:5I:46:GLU:OE2	2.47	0.48
19:AI:9:VAL:HG21	52:M8:63:TYR:O	2.13	0.48
26:1H:242:G:H5'	55:Q8:60:LEU:HD13	1.95	0.48
26:1H:1024:G:O6	26:1H:1025:G:C2	2.67	0.48
26:1H:1386:C:C2	26:1H:1387:C:H5	2.31	0.48
26:1H:1486:A:C4	26:1H:1487:G:C8	3.02	0.48
26:1H:1858:G:O6	59:1H:4304:HOH:O	2.19	0.48
26:1H:1858:G:N2	26:1H:1883:G:H2'	2.29	0.48
29:11:24:ILE:HA	29:11:82:ILE:HG22	1.95	0.48
32:41:17:PRO:HA	32:41:20:ILE:HD12	1.95	0.48
32:41:137:GLU:HB2	32:41:139:LEU:HD23	1.95	0.48
33:51:35:VAL:HA	33:51:36:PRO:HD2	1.73	0.48
36:68:10:VAL:HG11	36:68:16:ALA:HB3	1.96	0.48
38:88:138:ASP:OD2	47:H8:81:ARG:NH2	2.47	0.48
42:C8:69:CYS:SG	42:C8:79:PHE:HD2	2.37	0.48
48:I8:49:LYS:HE3	48:I8:68:GLU:OE2	2.13	0.48
48:I8:64:ASP:N	48:I8:64:ASP:OD1	2.47	0.48
55:Q8:23:VAL:O	55:Q8:44:LYS:HB2	2.14	0.48
1:1G:446:G:H1	1:1G:488:C:H42	1.62	0.48
1:1G:1342:C:H1'	9:82:124:GLN:OE1	2.14	0.48
3:22:12:LEU:HD22	3:22:18:TRP:CZ3	2.49	0.48
3:22:88:ARG:HB2	3:22:101:LEU:HD22	1.96	0.48
6:52:48:LEU:HD13	6:52:52:ILE:HB	1.95	0.48
7:62:27:ILE:HA	7:62:30:ILE:HD12	1.96	0.48
12:3A:10:LEU:HD22	12:3A:10:LEU:HA	1.74	0.48
24:3L:72:C:H3'	24:3L:73:A:H5"	1.95	0.48
26:14:72:U:OP2	50:G5:29:LYS:NZ	2.46	0.48
26:14:274:G:H2'	26:14:275:G:H4'	1.96	0.48
26:14:380:U:H2'	26:14:381:G:H8	1.79	0.48
26:14:446:G:OP2	59:14:3699:HOH:O	2.20	0.48
26:14:544:C:C2	26:14:550:G:N2	2.82	0.48
26:14:847:U:H5'	26:14:929:G:H1	1.79	0.48
26:14:1443:G:H1	26:14:1548:C:H42	1.60	0.48
26:14:1820:U:O2	29:19:202:LYS:N	2.47	0.48
26:14:1971:A:P	29:19:242:ARG:HH22	2.37	0.48
29:19:77:ALA:HB2	29:19:97:TYR:CD2	2.49	0.48
29:19:143:HIS:HD2	29:19:194:GLY:C	2.21	0.48
31:39:135:LYS:HB3	31:39:138:GLU:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:114:ILE:HG12	32:49:140:ILE:HD13	1.94	0.48
33:59:74:ASN:O	33:59:78:GLY:N	2.47	0.48
34:69:129:THR:HA	34:69:137:PRO:HA	1.95	0.48
39:55:67:LEU:HD13	39:55:76:VAL:HG11	1.96	0.48
1:13:742:G:H4'	15:6I:58:MET:HE1	1.95	0.47
1:13:1234:C:H2'	1:13:1235:U:H6	1.78	0.47
1:13:1427:U:H2'	1:13:1428:A:C8	2.49	0.47
2:1E:54:THR:HG21	2:1E:201:ILE:HD11	1.96	0.47
3:2E:18:TRP:HB3	3:2E:20:SER:O	2.14	0.47
5:4E:122:GLU:HG2	5:4E:131:ILE:HD12	1.96	0.47
10:1I:32:ALA:HB1	10:1I:76:ASN:OD1	2.14	0.47
25:4K:14:A:H3'	25:4K:15:A:H8	1.79	0.47
26:1H:1163:G:N2	26:1H:1164:G:C4	2.82	0.47
26:1H:1551:C:C2'	26:1H:1552:G:H5'	2.43	0.47
26:1H:1654:A:H1'	26:1H:2823:A:H5'	1.96	0.47
26:1H:2035:G:O6	59:1H:3717:HOH:O	2.19	0.47
26:1H:2056:G:N2	26:1H:2057:A:N9	2.62	0.47
26:1H:2182:G:H2'	26:1H:2183:C:C6	2.49	0.47
26:1H:2841:C:H2'	26:1H:2842:G:H8	1.79	0.47
29:11:77:ALA:HB2	29:11:97:TYR:HA	1.96	0.47
34:61:110:ASP:H	34:61:130:TYR:HH	1.61	0.47
37:78:39:LYS:HB3	59:78:304:HOH:O	2.13	0.47
37:78:67:MET:HE3	37:78:67:MET:HB2	1.66	0.47
42:C8:11:ARG:O	42:C8:15:LYS:HG3	2.14	0.47
43:D8:83:ARG:HA	43:D8:83:ARG:HD3	1.66	0.47
46:G8:94:LYS:HZ1	46:G8:95:LYS:H	1.61	0.47
50:K8:63:VAL:HA	50:K8:66:GLU:HB2	1.95	0.47
1:1G:191(A):G:H2'	1:1G:191(B):G:H5'	1.96	0.47
1:1G:374:A:N3	1:1G:374:A:H2'	2.28	0.47
1:1G:600:C:H2'	1:1G:601:C:C6	2.49	0.47
1:1G:841:U:H4'	1:1G:842:C:H6	1.78	0.47
1:1G:867:G:O2'	1:1G:868:C:H5'	2.13	0.47
1:1G:1386:G:H2'	1:1G:1387:G:H8	1.78	0.47
2:12:6:THR:HG21	2:12:217:ARG:HB3	1.96	0.47
2:12:32:ILE:HD13	2:12:40:HIS:HB3	1.96	0.47
3:22:181:ASN:OD1	3:22:204:LEU:HB2	2.13	0.47
5:42:76:ILE:HD13	5:42:76:ILE:HA	1.71	0.47
13:4A:32:GLU:OE2	13:4A:33:ALA:N	2.47	0.47
26:14:70:G:H2'	26:14:113:G:O2'	2.13	0.47
26:14:139:G:H1'	26:14:140:A:H2	1.78	0.47
26:14:186:G:H2'	26:14:187:G:H8	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:654(Q):C:O5'	26:14:654(Q):C:H6	1.97	0.47
26:14:918:A:C5	26:14:919:G:H1'	2.49	0.47
26:14:988:A:H8	26:14:988:A:O5'	1.96	0.47
26:14:1019:U:H2'	26:14:1020:A:C8	2.49	0.47
26:14:2190:G:H2'	26:14:2191:G:O4'	2.14	0.47
26:14:2536:G:C5	26:14:2537:U:C4	3.02	0.47
26:14:2648:C:H2'	26:14:2649:U:H6	1.78	0.47
26:14:2851:A:H2'	26:14:2852:G:H8	1.77	0.47
27:1J:62:C:C2	27:1J:63:G:C8	3.02	0.47
29:19:264:LYS:HG2	29:19:266:SER:HB3	1.95	0.47
31:39:4:VAL:HA	31:39:19:GLU:CB	2.43	0.47
32:49:80:PHE:O	32:49:82:LEU:HB2	2.13	0.47
36:25:63:VAL:HB	36:25:102:VAL:HG12	1.95	0.47
37:35:105:LEU:O	37:35:106:LEU:HB3	2.14	0.47
1:13:160:A:C6	1:13:161:A:C6	3.02	0.47
1:13:950:U:C5	13:4I:102:ARG:NH1	2.82	0.47
1:13:1152:A:OP1	10:1I:13:HIS:HB2	2.14	0.47
1:13:1373:G:H5"	7:6E:36:LYS:HG3	1.96	0.47
2:1E:5:ILE:HG13	2:1E:6:THR:N	2.27	0.47
3:2E:152:ILE:HB	3:2E:199:LYS:HB2	1.96	0.47
5:4E:123:LEU:HA	5:4E:123:LEU:HD23	1.70	0.47
24:3K:19:G:O2'	24:3K:57:G:N3	2.47	0.47
26:1H:116:C:O2'	26:1H:117:G:H5'	2.14	0.47
26:1H:177:G:H3'	26:1H:178:G:H8	1.79	0.47
26:1H:738:G:C6	26:1H:739:G:C2	3.03	0.47
26:1H:828:U:H4'	26:1H:831:G:N1	2.29	0.47
26:1H:931:G:C4	26:1H:933:A:C8	3.02	0.47
26:1H:1204:A:N1	26:1H:1241:A:N1	2.61	0.47
26:1H:1671:U:OP2	59:1H:3569:HOH:O	2.20	0.47
26:1H:2146:C:H4'	26:1H:2147:G:N7	2.28	0.47
26:1H:2241:A:H2'	26:1H:2242:G:C8	2.49	0.47
32:41:114:ILE:HG22	32:41:115:ARG:O	2.14	0.47
33:51:131:VAL:HG12	33:51:132:ARG:N	2.29	0.47
37:78:46:LYS:O	37:78:47:ASP:HB3	2.13	0.47
39:98:117:VAL:O	39:98:118:GLU:HB2	2.13	0.47
47:H8:4:ARG:HB3	47:H8:58:VAL:CG2	2.45	0.47
52:M8:14:ILE:CG2	52:M8:21:VAL:HB	2.45	0.47
55:Q8:21:LYS:NZ	55:Q8:21:LYS:C	2.72	0.47
1:1G:164:U:H2'	1:1G:165:C:C6	2.49	0.47
1:1G:176:C:O2'	1:1G:177:C:H5'	2.14	0.47
1:1G:823:G:N3	8:72:1:MET:HE1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1286:A:C8	1:1G:1287:A:H4'	2.49	0.47
2:12:69:LEU:O	2:12:163:PHE:N	2.47	0.47
3:22:113:ALA:HB3	3:22:114:PRO:HD3	1.96	0.47
3:22:167:TRP:CE3	3:22:167:TRP:O	2.67	0.47
4:32:26:CYS:CA	4:32:31:CYS:HB3	2.37	0.47
12:3A:117:ARG:HB3	12:3A:122:THR:O	2.14	0.47
19:AA:28:LYS:HD3	19:AA:29:ARG:H	1.79	0.47
26:14:528:A:H2	26:14:2043:C:H4'	1.79	0.47
26:14:616:A:C8	31:39:180:GLY:HA3	2.50	0.47
26:14:773:U:OP1	59:14:3855:HOH:O	2.20	0.47
26:14:996:A:C5	26:14:1160:G:C2	3.02	0.47
26:14:1035:U:H2'	26:14:1036:G:C8	2.49	0.47
26:14:1161:C:H2'	26:14:1162:G:C8	2.49	0.47
26:14:1480:G:C6	26:14:1482:U:N3	2.82	0.47
26:14:2018:G:O2'	42:85:34:LYS:HE3	2.13	0.47
26:14:2323:G:HO2'	26:14:2337:G:HO2'	1.62	0.47
26:14:2394:C:OP1	37:35:63:PRO:HG2	2.15	0.47
26:14:2420:C:OP1	55:M5:34:TRP:HB3	2.14	0.47
26:14:2431:U:O2	26:14:2433:A:C8	2.67	0.47
26:14:2757:A:N1	33:59:67:LEU:HD23	2.28	0.47
29:19:133:LEU:HA	29:19:136:ILE:HD12	1.96	0.47
32:49:98:ARG:HH22	52:I5:2:LYS:NZ	2.12	0.47
32:49:171:ALA:O	32:49:174:GLU:N	2.47	0.47
34:69:63:ALA:HA	34:69:66:GLU:HG2	1.96	0.47
36:25:107:ARG:HE	36:25:115:VAL:HG11	1.79	0.47
38:45:103:MET:O	38:45:104:PHE:HB2	2.14	0.47
48:E5:60:PHE:N	48:E5:60:PHE:CD1	2.82	0.47
1:13:704:A:H5"	1:13:705:U:OP2	2.14	0.47
1:13:834:C:C2	1:13:853:G:C2	3.03	0.47
1:13:1237:C:O2'	1:13:1300:G:N2	2.46	0.47
3:2E:114:PRO:HD3	3:2E:183:ASP:OD2	2.14	0.47
4:3E:30:LYS:HA	4:3E:35:ARG:HG3	1.96	0.47
9:8E:25:LYS:N	9:8E:60:ASP:OD1	2.46	0.47
22:1K:31:G:H1	22:1K:41:C:H42	1.62	0.47
26:1H:592:G:O2'	55:Q8:4:MET:HG3	2.14	0.47
26:1H:1329:U:H3'	26:1H:1330:C:H6	1.79	0.47
26:1H:1614:A:P	59:1H:3865:HOH:O	2.72	0.47
26:1H:2127:G:H1	26:1H:2162:G:C1'	2.24	0.47
26:1H:2263:C:H2'	26:1H:2264:C:H6	1.80	0.47
26:1H:2313:C:O2'	26:1H:2314:C:H5'	2.14	0.47
26:1H:2812:G:C2	26:1H:2813:A:C4	3.01	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:71:185:LEU:O	28:71:189:ILE:N	2.40	0.47
31:31:125:LEU:HA	31:31:125:LEU:HD23	1.56	0.47
32:41:11:TYR:OH	32:41:32:PRO:O	2.28	0.47
34:61:41:GLU:O	34:61:45:LYS:HB2	2.14	0.47
47:H8:160:GLY:C	47:H8:161:VAL:HG22	2.37	0.47
1:1G:12:U:H2'	1:1G:13:U:H5"	1.96	0.47
1:1G:90:C:H2'	1:1G:91:C:C6	2.49	0.47
1:1G:571:U:O2	1:1G:918:A:H5'	2.14	0.47
1:1G:580:U:H5"	15:6A:58:MET:HG2	1.95	0.47
1:1G:589:C:C2	1:1G:650:G:N2	2.81	0.47
2:12:124:SER:C	2:12:126:GLU:H	2.22	0.47
19:AA:64:GLU:H	19:AA:64:GLU:CD	2.22	0.47
19:AA:66:MET:HG2	19:AA:69:HIS:CE1	2.49	0.47
19:AA:66:MET:HA	19:AA:67:VAL:C	2.39	0.47
24:3L:15:G:H1	24:3L:48:C:H42	1.62	0.47
26:14:579:G:H2'	26:14:580:C:C6	2.50	0.47
26:14:674:G:O2'	31:39:67:GLN:OE1	2.20	0.47
26:14:797:C:H2'	26:14:798:G:O4'	2.15	0.47
26:14:1012:U:O4	35:15:25:ARG:HA	2.14	0.47
26:14:1061:U:H4'	26:14:1070:A:H1'	1.96	0.47
26:14:1225:C:H4'	43:95:85:LYS:CG	2.44	0.47
26:14:1316:U:H2'	26:14:1317:A:C8	2.48	0.47
26:14:1432:C:H2'	26:14:1433:U:O4'	2.13	0.47
26:14:2135:A:C8	26:14:2156:G:N2	2.82	0.47
26:14:2320:A:H2'	26:14:2333:A:H62	1.80	0.47
26:14:2394:C:H2'	26:14:2395:C:C6	2.49	0.47
29:19:248:SER:HG	29:19:252:TRP:CG	2.33	0.47
35:15:4:TYR:O	42:85:64:ARG:NH1	2.46	0.47
40:65:102:ALA:HA	40:65:105:ALA:HB3	1.97	0.47
44:A5:28:SER:OG	44:A5:31:GLU:HG2	2.14	0.47
45:B5:43:VAL:HG23	45:B5:51:VAL:HG21	1.96	0.47
45:B5:57:LEU:N	45:B5:57:LEU:HD23	2.29	0.47
46:C5:17:SER:HB2	46:C5:71:LYS:HD2	1.97	0.47
1:13:141:A:H2'	1:13:142:G:C8	2.50	0.47
1:13:1139:G:H4'	1:13:1140:C:C5'	2.44	0.47
2:1E:187:LEU:HD22	2:1E:201:ILE:O	2.14	0.47
2:1E:208:ILE:O	2:1E:211:ILE:N	2.47	0.47
16:7I:50:LYS:HD3	16:7I:51:VAL:N	2.24	0.47
24:3K:65:G:H5"	24:3K:66:U:OP2	2.14	0.47
26:1H:67:U:H2'	26:1H:68:G:H8	1.78	0.47
26:1H:139:G:N3	26:1H:141:A:N1	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:598:G:H1'	37:78:12:ALA:HB2	1.96	0.47
26:1H:624:C:P	59:1H:4216:HOH:O	2.73	0.47
26:1H:911:A:C5	38:88:9:TYR:CD2	3.03	0.47
26:1H:988:A:H8	26:1H:988:A:O5'	1.97	0.47
26:1H:1019:U:O2'	26:1H:1021:A:H2	1.96	0.47
26:1H:1248:G:C8	42:C8:3:ARG:HB2	2.49	0.47
26:1H:1630(A):C:H2'	59:1H:4380:HOH:O	2.14	0.47
26:1H:2469:A:H2	26:1H:2481:G:H21	1.60	0.47
26:1H:2699:C:H2'	26:1H:2700:C:O4'	2.15	0.47
26:1H:2886:G:N2	26:1H:2887:U:C2	2.83	0.47
29:11:124:PRO:HG2	29:11:129:ASN:ND2	2.29	0.47
31:31:14:PRO:HD3	31:31:127:GLU:HB3	1.95	0.47
32:41:60:LEU:HD12	32:41:68:PRO:HG3	1.94	0.47
41:B8:108:ARG:HA	41:B8:111:ARG:HE	1.80	0.47
1:1G:36:C:OP1	12:3A:123:LYS:NZ	2.33	0.47
1:1G:323:U:H2'	1:1G:324:G:O4'	2.14	0.47
1:1G:932:C:H2'	1:1G:933:G:C8	2.49	0.47
1:1G:1127:G:H2'	1:1G:1127:G:N3	2.27	0.47
1:1G:1157:A:H62	1:1G:1177:G:H22	1.61	0.47
1:1G:1275:A:H2'	1:1G:1276:G:C8	2.49	0.47
1:1G:1505:G:H4'	1:1G:1506:U:H5"	1.97	0.47
2:12:126:GLU:C	2:12:128:GLU:N	2.72	0.47
3:22:103:VAL:HG12	3:22:104:GLN:H	1.79	0.47
4:32:163:GLU:HA	4:32:166:LYS:HE3	1.95	0.47
5:42:103:GLY:C	5:42:106:PRO:HD2	2.39	0.47
9:82:17:VAL:HG21	9:82:80:GLY:CA	2.44	0.47
15:6A:34:LEU:HA	15:6A:34:LEU:HD12	1.59	0.47
56:2L:29:C:H2'	56:2L:30:G:H8	1.79	0.47
26:14:303:U:H2'	26:14:304:G:C8	2.50	0.47
26:14:464:U:H4'	54:L5:5:TRP:CZ3	2.49	0.47
26:14:699:A:H2'	26:14:700:G:O4'	2.13	0.47
26:14:873:G:N2	26:14:905:U:C2	2.82	0.47
26:14:1187:G:P	59:14:3597:HOH:O	2.72	0.47
26:14:2393:A:OP1	55:M5:30:ARG:HB3	2.14	0.47
26:14:2712:U:H1'	26:14:2712(A):A:C8	2.50	0.47
27:1J:10:C:C4	27:1J:11:C:H5	2.33	0.47
27:1J:90:C:OP2	38:45:16:ARG:NH2	2.47	0.47
30:29:77:ILE:C	30:29:78:LEU:HG	2.39	0.47
30:29:203:LYS:N	30:29:205:ALA:H	2.12	0.47
33:59:118:PRO:HD2	33:59:121:ILE:HG13	1.96	0.47
39:55:3:HIS:CE1	59:55:303:HOH:O	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:23:ARG:HH11	46:C5:23:ARG:CG	2.27	0.47
46:C5:35:TYR:HD2	46:C5:68:HIS:CE1	2.33	0.47
49:F5:57:GLU:O	49:F5:58:ILE:HD13	2.14	0.47
1:13:130:A:P	17:8I:63:ARG:HH21	2.37	0.47
1:13:511:C:O2'	1:13:512:U:OP2	2.29	0.47
1:13:752:G:H8	1:13:752:G:O5'	1.98	0.47
1:13:901:A:C5	1:13:902:G:H1'	2.50	0.47
1:13:1429:C:H2'	1:13:1430:C:C6	2.50	0.47
1:13:1510:U:H2'	1:13:1511:G:C8	2.50	0.47
6:5E:5:GLU:HG2	6:5E:62:TRP:HE1	1.79	0.47
7:6E:16:LEU:HD12	9:8E:42:ARG:HA	1.95	0.47
11:2I:41:THR:HG21	11:2I:71:LYS:HD3	1.97	0.47
14:5I:24:CYS:HB3	14:5I:28:GLY:H	1.79	0.47
18:9I:38:GLU:HA	18:9I:41:LYS:NZ	2.29	0.47
25:4K:14:A:H3'	25:4K:15:A:C8	2.49	0.47
26:1H:330:A:H2	26:1H:1210:A:HO2'	1.62	0.47
26:1H:823:G:H2'	26:1H:824:A:C8	2.50	0.47
26:1H:1683:C:H2'	26:1H:1684:C:C6	2.50	0.47
26:1H:1843:C:O5'	26:1H:1843:C:H6	1.97	0.47
28:71:196:LEU:O	28:71:199:HIS:HB2	2.14	0.47
33:51:124:GLU:HB3	33:51:132:ARG:HB3	1.97	0.47
35:58:28:THR:HA	35:58:106:MET:HE2	1.96	0.47
38:88:16:ARG:NH2	38:88:18:LYS:HG3	2.29	0.47
40:A8:27:SER:HA	40:A8:88:ASP:CB	2.44	0.47
40:A8:42:ASP:O	40:A8:43:GLU:HB2	2.15	0.47
41:B8:5:ALA:O	41:B8:8:LYS:HG2	2.15	0.47
43:D8:46:VAL:C	43:D8:47:VAL:HG12	2.39	0.47
45:F8:61:GLY:HA3	45:F8:73:ARG:O	2.15	0.47
48:I8:27:GLU:HA	48:I8:67:VAL:O	2.14	0.47
55:Q8:56:GLU:C	55:Q8:57:ARG:HG3	2.40	0.47
1:1G:170:U:H2'	1:1G:171:A:H8	1.79	0.47
1:1G:341:C:H2'	1:1G:342:C:C6	2.46	0.47
1:1G:598:U:H2'	1:1G:599:C:C6	2.50	0.47
1:1G:601:C:H2'	1:1G:602:A:C8	2.49	0.47
1:1G:778:G:H1'	11:2A:119:CYS:HB3	1.97	0.47
1:1G:955:U:H2'	1:1G:956:U:H6	1.80	0.47
1:1G:1132:C:H2'	1:1G:1133:G:C8	2.49	0.47
9:82:49:PRO:HB3	9:82:82:ALA:HB2	1.96	0.47
12:3A:90:VAL:HG11	12:3A:93:LEU:HD12	1.94	0.47
14:5A:53:LEU:HD12	14:5A:56:VAL:HG21	1.96	0.47
26:14:290:G:H2'	26:14:291:C:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1011:G:N3	26:14:1151:G:N2	2.63	0.47
26:14:1870:C:H2'	26:14:1871:A:O4'	2.15	0.47
26:14:2185:C:H2'	26:14:2186:G:C8	2.49	0.47
26:14:2287:A:H2	26:14:2346:A:C2	2.31	0.47
26:14:2406:U:C2	37:35:72:PRO:HB2	2.49	0.47
26:14:2748:A:N7	26:14:2754:U:O4	2.48	0.47
26:14:2774:C:H2'	26:14:2775:A:C8	2.50	0.47
29:19:133:LEU:HD13	29:19:173:VAL:HG21	1.96	0.47
31:39:24:LEU:HD11	31:39:119:ARG:HG2	1.95	0.47
31:39:187:VAL:HG12	37:35:3:LEU:HG	1.96	0.47
37:35:68:GLN:HG3	55:M5:12:LYS:HD3	1.95	0.47
41:75:51:ARG:CG	41:75:98:LYS:HD2	2.43	0.47
42:85:45:TYR:O	42:85:49:HIS:HB2	2.15	0.47
43:95:71:LEU:H	43:95:86:GLY:CA	2.26	0.47
47:D5:7:ALA:HB3	47:D5:61:LEU:HA	1.97	0.47
1:13:153:C:H42	1:13:168:G:H22	1.62	0.47
1:13:475:G:H2'	1:13:476:G:C8	2.49	0.47
1:13:664:G:N2	1:13:742:G:C2	2.83	0.47
1:13:719:C:H1'	18:9I:49:LYS:HB3	1.96	0.47
1:13:991:U:O2'	1:13:992:U:O5'	2.24	0.47
1:13:1002:G:H2'	1:13:1003:G:C8	2.46	0.47
1:13:1016:A:H2'	1:13:1017:G:O4'	2.15	0.47
1:13:1292:U:OP2	7:6E:41:ARG:NH1	2.47	0.47
4:3E:177:ASP:OD2	4:3E:180:GLY:HA3	2.15	0.47
5:4E:152:ARG:HA	8:7E:64:LYS:HE2	1.97	0.47
26:1H:547:A:C5	26:1H:548:A:C6	3.03	0.47
26:1H:897:C:C3'	26:1H:898:C:H5"	2.44	0.47
26:1H:1336:A:H2'	26:1H:1337:G:H8	1.80	0.47
26:1H:1503:U:H2'	26:1H:1504:C:C6	2.49	0.47
26:1H:1689:A:C2	26:1H:1690:A:C5	3.03	0.47
26:1H:1972:A:H2'	26:1H:1973:G:C8	2.50	0.47
26:1H:2199:A:H5'	26:1H:2205:C:OP2	2.15	0.47
33:51:24:VAL:HG13	33:51:35:VAL:HB	1.95	0.47
33:51:83:TYR:CB	33:51:135:GLY:H	2.22	0.47
34:61:4:ILE:HG23	34:61:18:VAL:HG22	1.96	0.47
37:78:94:GLU:OE2	37:78:124:LYS:HD3	2.14	0.47
40:A8:37:ALA:HB2	40:A8:101:LEU:HD21	1.97	0.47
50:K8:33:MET:HG2	50:K8:37:PHE:HE1	1.78	0.47
1:1G:102:G:H2'	1:1G:103:C:H6	1.79	0.47
1:1G:128:G:H5'	17:8A:2:PRO:C	2.40	0.47
1:1G:909:A:N3	1:1G:1413:A:O2'	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:922:G:C2	1:1G:923:A:C4	3.03	0.47
1:1G:1046:A:H3'	1:1G:1047:G:H8	1.78	0.47
1:1G:1091:U:N3	1:1G:1094:G:OP2	2.39	0.47
1:1G:1187:G:O2'	1:1G:1188:A:H5'	2.14	0.47
1:1G:1293:G:H2'	1:1G:1294:G:O4'	2.14	0.47
3:22:112:SER:O	3:22:116:VAL:HG23	2.15	0.47
6:52:2:ARG:HE	6:52:69:GLU:CB	2.27	0.47
20:BA:67:ALA:O	20:BA:73:HIS:CE1	2.67	0.47
26:14:452:G:H5'	31:39:59:TYR:HE1	1.79	0.47
26:14:563:G:H2'	26:14:564:C:C6	2.49	0.47
26:14:829:A:H4'	59:14:3682:HOH:O	2.13	0.47
26:14:1342:A:H2	26:14:1602:U:N3	2.11	0.47
26:14:1465:G:C4	26:14:1466:G:C8	3.03	0.47
26:14:1814:G:H2'	26:14:1815:A:C8	2.49	0.47
26:14:2078:C:C4	26:14:2079:U:C4	3.03	0.47
26:14:2572:A:N7	30:29:145:LYS:HB2	2.30	0.47
26:14:2572:A:OP1	26:14:2574:G:O2'	2.31	0.47
27:1J:9:G:C6	27:1J:10:C:C4	3.02	0.47
29:19:70:TRP:CD1	29:19:70:TRP:C	2.91	0.47
40:65:73:LEU:HD23	40:65:73:LEU:HA	1.77	0.47
43:95:35:LEU:O	43:95:37:VAL:HG22	2.14	0.47
49:F5:50:ARG:HG2	49:F5:59:THR:OG1	2.15	0.47
1:13:44:G:C6	1:13:45:U:C2	3.03	0.47
1:13:192:U:H1'	20:BI:103:GLY:HA2	1.97	0.47
1:13:271:C:H2'	1:13:272:C:H6	1.80	0.47
1:13:357:G:O2'	34:69:89:TYR:O	2.31	0.47
1:13:376:G:H4'	16:7I:5:ARG:HD2	1.96	0.47
1:13:429:U:OP2	4:3E:36:ARG:NH2	2.48	0.47
1:13:476:G:H2'	1:13:476:G:N3	2.29	0.47
1:13:660:G:H2'	1:13:661:G:C8	2.48	0.47
1:13:947:G:N2	1:13:1235:U:C2	2.83	0.47
1:13:1121:U:H3	1:13:1152:A:N6	2.09	0.47
1:13:1132:C:H2'	1:13:1133:G:C8	2.50	0.47
1:13:1236:A:OP1	21:1F:3:LYS:HE3	2.13	0.47
1:13:1258:G:H2'	1:13:1259:C:C6	2.50	0.47
2:1E:91:PRO:HB3	2:1E:154:LEU:HB2	1.96	0.47
2:1E:162:ILE:HD13	2:1E:183:PRO:O	2.15	0.47
5:4E:150:ARG:NH1	5:4E:150:ARG:HB3	2.29	0.47
9:8E:73:GLN:O	9:8E:76:ALA:N	2.44	0.47
17:8I:88:TYR:CE1	17:8I:89:LEU:HD23	2.50	0.47
20:BI:44:ALA:O	20:BI:91:LEU:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2K:65:G:H2'	23:2K:66:C:O4'	2.15	0.47
24:3K:34:G:H8	24:3K:34:G:OP1	1.98	0.47
24:3K:60:U:H6	24:3K:60:U:O5'	1.98	0.47
26:1H:194:G:C8	59:1H:4369:HOH:O	2.68	0.47
26:1H:270(M):U:H4'	26:1H:270(N):G:C4	2.49	0.47
26:1H:299:A:H5'	26:1H:300:A:OP2	2.14	0.47
26:1H:433:C:H2'	26:1H:434:U:H6	1.76	0.47
26:1H:481:G:C4	26:1H:507:A:C2	3.03	0.47
26:1H:537:C:H2'	26:1H:539:G:O4'	2.14	0.47
26:1H:1035:U:H2'	26:1H:1036:G:C8	2.50	0.47
26:1H:1299:G:H5"	26:1H:1300:U:OP1	2.15	0.47
26:1H:1401:G:C6	26:1H:1402:C:C4	3.03	0.47
26:1H:1486:A:H2'	26:1H:1487:G:H8	1.78	0.47
26:1H:1590:U:O2'	26:1H:1591:G:H5'	2.14	0.47
26:1H:1692:U:O2'	26:1H:1693:U:H2'	2.15	0.47
26:1H:1830:C:O2'	26:1H:1831:G:H5'	2.15	0.47
26:1H:1849:G:N2	26:1H:1893:C:O2	2.47	0.47
26:1H:1945:G:H2'	26:1H:1946:U:C6	2.50	0.47
26:1H:1994:C:O2	26:1H:1994:C:H2'	2.15	0.47
26:1H:2250:G:C5	38:88:82:ARG:HG2	2.49	0.47
26:1H:2291:U:H2'	26:1H:2292:C:C6	2.49	0.47
26:1H:2309:A:C6	26:1H:2310:A:C8	3.03	0.47
26:1H:2331:G:O3'	48:I8:43:THR:HG22	2.14	0.47
26:1H:2341:G:H2'	26:1H:2342:C:C6	2.49	0.47
26:1H:2519:U:OP2	59:1H:4004:HOH:O	2.20	0.47
27:16:25:A:H2'	27:16:26:A:O4'	2.15	0.47
29:11:89:SER:HB2	29:11:159:ALA:CB	2.45	0.47
29:11:142:VAL:HG23	29:11:193:VAL:HA	1.97	0.47
31:31:176:LEU:HG	31:31:180:GLY:O	2.14	0.47
37:78:15:ARG:CB	37:78:16:ARG:HB2	2.45	0.47
40:A8:35:ILE:C	40:A8:36:TYR:HD1	2.22	0.47
41:B8:13:ARG:H	41:B8:13:ARG:HD3	1.79	0.47
44:E8:39:THR:HG22	44:E8:44:ALA:HB2	1.97	0.47
45:F8:49:VAL:HG11	45:F8:89:ILE:HD13	1.97	0.47
48:I8:44:ARG:HB2	48:I8:44:ARG:HH11	1.79	0.47
51:L8:4:LEU:HD12	51:L8:37:LEU:O	2.14	0.47
55:Q8:5:LYS:H	55:Q8:59:LYS:NZ	2.12	0.47
1:1G:107:G:C2	1:1G:108:G:H1'	2.50	0.47
1:1G:457:C:H2'	1:1G:458:C:H6	1.78	0.47
1:1G:498:A:N6	1:1G:547:A:O5'	2.47	0.47
1:1G:665:A:N3	1:1G:732:C:H2'	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:688:G:H1	1:1G:699:C:H42	1.63	0.47
1:1G:707:C:H2'	1:1G:708:C:C6	2.49	0.47
1:1G:719:C:C5	1:1G:720:C:C4	3.03	0.47
1:1G:935:A:H2'	1:1G:936:C:H6	1.78	0.47
1:1G:1014:A:H4'	19:AA:14:HIS:ND1	2.29	0.47
1:1G:1177:G:H8	1:1G:1177:G:OP2	1.98	0.47
1:1G:1206:G:C6	1:1G:1207:G:C5	3.03	0.47
1:1G:1244:C:O2	1:1G:1293:G:N2	2.46	0.47
1:1G:1348:U:H3	1:1G:1374:A:H2	1.63	0.47
1:1G:1411:C:H2'	1:1G:1412:C:C6	2.49	0.47
1:1G:1497:G:O2'	1:1G:1498:U:H5'	2.15	0.47
4:32:172:PRO:HB2	4:32:187:ARG:HH12	1.78	0.47
6:52:35:ALA:HA	6:52:67:MET:HB3	1.97	0.47
6:52:38:GLU:HB2	6:52:64:GLN:HB3	1.97	0.47
9:82:48:GLU:OE1	9:82:51:ARG:NH1	2.48	0.47
9:82:112:LYS:HA	9:82:119:ALA:HB2	1.96	0.47
13:4A:5:ALA:HB3	13:4A:8:GLU:HB2	1.96	0.47
14:5A:26:ARG:HH12	14:5A:47:LEU:HD21	1.79	0.47
20:BA:14:LYS:HA	20:BA:17:ARG:NH1	2.30	0.47
21:1B:9:ARG:O	21:1B:13:ILE:HG13	2.14	0.47
56:2L:36:A:H2'	56:2L:37:U:C6	2.50	0.47
26:14:95:G:H4'	50:G5:46:GLN:HB2	1.96	0.47
26:14:247:G:H4'	26:14:386:G:C5	2.49	0.47
26:14:780:G:H21	26:14:783:A:H62	1.62	0.47
26:14:1058:U:C2	26:14:1059:G:N7	2.83	0.47
26:14:1137:G:H2'	26:14:1138:G:C8	2.46	0.47
26:14:1167:U:C2	26:14:1183:G:N2	2.83	0.47
26:14:1263:U:C4	26:14:1264:G:C6	3.03	0.47
26:14:1430:C:H2'	26:14:1431:U:H6	1.78	0.47
26:14:2049:G:N2	26:14:2620:C:C2	2.82	0.47
26:14:2052:G:O4'	30:29:142:GLY:HA3	2.15	0.47
26:14:2443:C:OP1	31:39:68:LYS:HG3	2.14	0.47
26:14:2560:C:C2	26:14:2561:A:C8	3.02	0.47
26:14:2786:U:H4'	30:29:64:LYS:O	2.13	0.47
26:14:2872:G:C4	26:14:2873:A:C2	3.02	0.47
26:14:2880:C:H1'	39:55:92:GLY:HA3	1.96	0.47
29:19:132:PRO:HG3	29:19:190:TYR:CE1	2.49	0.47
30:29:57:LYS:HA	30:29:57:LYS:HD3	1.68	0.47
30:29:67:PHE:CZ	30:29:69:LYS:HD3	2.50	0.47
30:29:73:GLU:HA	30:29:74:PRO:HD2	1.64	0.47
31:39:83:PHE:O	31:39:85:GLY:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:49:122:PRO:O	32:49:125:PHE:HD2	1.97	0.47
33:59:6:ARG:HG2	33:59:65:HIS:CE1	2.49	0.47
34:69:4:ILE:HG21	34:69:47:LEU:HD22	1.97	0.47
34:69:123:LEU:HD22	34:69:143:SER:HB3	1.97	0.47
37:35:41:ARG:N	37:35:41:ARG:HD2	2.28	0.47
37:35:49:ARG:HB3	55:M5:58:ILE:HD11	1.97	0.47
37:35:86:LYS:HB3	37:35:118:GLY:HA3	1.96	0.47
38:45:36:ALA:HB2	38:45:103:MET:SD	2.54	0.47
41:75:15:VAL:HG23	41:75:79:HIS:CE1	2.49	0.47
47:D5:67:LEU:HA	47:D5:68:PRO:HD3	1.62	0.47
1:13:713:G:H2'	1:13:714:G:C8	2.50	0.47
1:13:1175:G:H2'	1:13:1176:A:C8	2.50	0.47
1:13:1219:U:H2'	1:13:1220:G:H8	1.80	0.47
1:13:1320:C:H2'	1:13:1321:C:O4'	2.14	0.47
1:13:1323:G:H2'	1:13:1324:A:C8	2.50	0.47
2:1E:136:VAL:HA	2:1E:139:LYS:HB2	1.97	0.47
3:2E:191:THR:HG21	3:2E:193:TYR:CZ	2.49	0.47
15:6I:78:TYR:CE1	15:6I:82:ILE:HD11	2.50	0.47
23:2K:33:OMC:HM23	23:2K:33:OMC:H1'	1.77	0.47
26:1H:66:C:C4	26:1H:67:U:C4	3.02	0.47
26:1H:478:A:C6	26:1H:480:A:C6	3.02	0.47
26:1H:528:A:O2'	26:1H:529:A:H5"	2.15	0.47
26:1H:565:C:OP1	43:D8:82:ARG:NH2	2.48	0.47
26:1H:1466:G:N2	26:1H:1547:C:N3	2.63	0.47
26:1H:1514:U:H2'	26:1H:1515:C:C6	2.50	0.47
26:1H:2209:C:O2	26:1H:2216:G:C2	2.68	0.47
26:1H:2584:U:H2'	26:1H:2585:U:H2'	1.96	0.47
26:1H:2683:C:H5"	41:B8:53:ARG:HH12	1.79	0.47
26:1H:2759:G:OP2	59:1H:4319:HOH:O	2.20	0.47
33:51:168:PRO:O	33:51:169:VAL:HB	2.14	0.47
35:58:96:GLU:HG2	35:58:97:ARG:N	2.30	0.47
39:98:10:LEU:O	39:98:11:ASN:C	2.58	0.47
40:A8:26:LEU:HD11	40:A8:73:LEU:HD13	1.97	0.47
40:A8:83:LYS:O	40:A8:109:GLY:HA2	2.13	0.47
43:D8:35:LEU:HD12	43:D8:35:LEU:O	2.15	0.47
43:D8:59:ALA:HB2	43:D8:96:ILE:HD13	1.96	0.47
49:J8:85:LEU:HD13	49:J8:85:LEU:HA	1.60	0.47
51:L8:12:PRO:HB2	51:L8:20:LYS:HD3	1.97	0.47
1:1G:195:A:N7	1:1G:196:A:C5	2.83	0.47
1:1G:560:U:O2'	1:1G:561:U:OP2	2.29	0.47
1:1G:646:U:H2'	1:1G:647:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:689:C:C2’	1:1G:690:G:H5’	2.45	0.47
1:1G:757:U:H2’	1:1G:758:G:O4’	2.15	0.47
1:1G:1046:A:H61	1:1G:1213:A:N6	2.10	0.47
1:1G:1329:A:H5”	13:4A:25:ILE:C	2.40	0.47
3:22:15:THR:HG22	3:22:16:ARG:NH1	2.30	0.47
3:22:18:TRP:HD1	14:5A:54:PRO:HA	1.79	0.47
6:52:96:PRO:HB3	18:9A:30:ASP:CG	2.40	0.47
8:72:82:HIS:H	8:72:138:TRP:C	2.23	0.47
8:72:89:PRO:HA	8:72:92:ARG:HE	1.80	0.47
11:2A:24:SER:HB2	11:2A:27:ASN:H	1.80	0.47
24:3L:52:G:H1	24:3L:62:C:H42	1.63	0.47
26:14:177:G:OP2	26:14:177:G:N2	2.45	0.47
26:14:566:U:H5”	37:35:29:LYS:CE	2.45	0.47
26:14:695:G:C2	26:14:768:G:C5	3.02	0.47
26:14:1568:G:OP1	29:19:63:ARG:NH1	2.48	0.47
26:14:1794:U:H2’	26:14:1795:C:H6	1.78	0.47
26:14:2146:C:H4’	26:14:2147:G:C8	2.49	0.47
26:14:2465:C:O2	26:14:2486:G:C2	2.67	0.47
26:14:2518:A:H8	26:14:2518:A:O5’	1.98	0.47
29:19:37:LEU:HD13	29:19:39:LYS:HG3	1.97	0.47
30:29:5:LEU:HB2	30:29:51:PHE:CD1	2.49	0.47
32:49:95:ARG:HG2	32:49:96:ARG:N	2.23	0.47
45:B5:25:LYS:HA	45:B5:81:VAL:O	2.14	0.47
48:E5:23:VAL:HG12	48:E5:25:ARG:O	2.14	0.47
1:13:131:C:H2’	1:13:131:C:O2	2.13	0.47
1:13:235:C:H2’	1:13:236:G:C8	2.47	0.47
1:13:263:A:OP2	20:BI:79:ARG:NH1	2.48	0.47
1:13:329:A:C5	1:13:332:G:C6	3.03	0.47
1:13:1258:G:H2’	1:13:1259:C:H6	1.80	0.47
1:13:1288:A:H2’	1:13:1289:A:O4’	2.14	0.47
3:2E:121:ALA:O	3:2E:125:GLU:HG3	2.14	0.47
26:1H:567:A:P	59:1H:3507:HOH:O	2.72	0.47
26:1H:710:G:H2’	26:1H:711:G:H8	1.78	0.47
26:1H:950:G:H2’	26:1H:951:C:H6	1.78	0.47
26:1H:993:G:H2’	26:1H:994:C:C6	2.50	0.47
26:1H:1077:A:H3’	26:1H:1078:U:H5’	1.97	0.47
26:1H:1110:G:O2’	26:1H:1111:A:O5’	2.32	0.47
26:1H:1346:G:H2’	26:1H:1347:G:C8	2.49	0.47
26:1H:1581:G:H2’	26:1H:1582:C:O4’	2.14	0.47
26:1H:2105:C:H2’	26:1H:2106:G:C8	2.47	0.47
26:1H:2394:C:H2’	26:1H:2395:C:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2791:C:N4	26:1H:2792:G:O6	2.47	0.47
26:1H:2853:C:H2'	26:1H:2854:G:H8	1.79	0.47
30:21:65:GLY:C	30:21:68:ALA:H	2.23	0.47
31:31:7:TYR:HA	31:31:22:ALA:O	2.15	0.47
38:88:32:TYR:OH	38:88:111:GLU:OE1	2.33	0.47
39:98:45:ARG:HB3	39:98:46:GLY:H	1.49	0.47
49:J8:18:ILE:HG12	49:J8:37:ILE:HG12	1.95	0.47
50:K8:21:LEU:HA	50:K8:21:LEU:HD23	1.60	0.47
1:1G:15:G:H2'	1:1G:16:A:C8	2.49	0.47
1:1G:446:G:H2'	1:1G:447:G:O4'	2.15	0.47
1:1G:731:G:O2'	1:1G:732:C:H5'	2.15	0.47
3:22:11:ARG:HB2	3:22:11:ARG:HH11	1.79	0.47
6:52:60:PHE:O	6:52:61:LEU:HD12	2.14	0.47
7:62:89:MET:HE3	7:62:155:ARG:HG3	1.97	0.47
11:2A:106:LYS:H	11:2A:106:LYS:HD3	1.78	0.47
15:6A:48:LYS:HA	15:6A:48:LYS:HZ2	1.79	0.47
26:14:139:G:N2	26:14:141:A:N1	2.59	0.47
26:14:481:G:C4	26:14:507:A:C2	3.03	0.47
26:14:821:A:H2'	26:14:946:G:H5"	1.97	0.47
26:14:950:G:C6	26:14:951:C:C4	3.03	0.47
26:14:1020:A:H4'	26:14:1021:A:H5"	1.97	0.47
26:14:1048:A:H5'	26:14:1049:C:OP2	2.15	0.47
26:14:1196:C:O4'	26:14:1227:A:C2	2.67	0.47
26:14:2176:A:H2'	26:14:2177:C:C6	2.50	0.47
26:14:2324:C:H5"	26:14:2325:G:C5'	2.42	0.47
26:14:2527:C:N4	26:14:2528:U:C4	2.83	0.47
32:49:18:GLU:O	32:49:22:ARG:N	2.47	0.47
36:25:113:LYS:O	36:25:117:LEU:HB2	2.15	0.47
38:45:2:LEU:HB3	38:45:3:MET:HE3	1.97	0.47
39:55:33:ARG:HA	39:55:115:GLU:HA	1.97	0.47
42:85:92:ARG:NH1	43:95:11:GLN:H	2.12	0.47
46:C5:61:ILE:HG22	46:C5:62:GLU:OE2	2.15	0.47
47:D5:29:TYR:HA	47:D5:33:LEU:O	2.14	0.47
48:E5:11:ARG:O	48:E5:14:ARG:NH2	2.48	0.47
52:I5:62:ARG:HG3	52:I5:62:ARG:NH1	2.25	0.47
1:13:232:G:H2'	1:13:233:C:H6	1.80	0.47
1:13:468:A:H3'	1:13:474:G:C8	2.49	0.47
1:13:628:G:H2'	1:13:629:G:C8	2.50	0.47
1:13:1060:C:C5	3:2E:2:GLY:HA3	2.50	0.47
1:13:1128:C:O2'	1:13:1139:G:O6	2.31	0.47
1:13:1184:G:H2'	1:13:1185:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1234:C:H2'	1:13:1235:U:C6	2.50	0.47
1:13:1347:G:O2'	1:13:1348:U:OP2	2.32	0.47
2:1E:22:LYS:HA	2:1E:24:TRP:CD1	2.50	0.47
2:1E:44:LEU:HA	2:1E:47:THR:OG1	2.14	0.47
4:3E:64:LEU:HD13	4:3E:198:VAL:HG21	1.96	0.47
14:5I:29:ARG:HH21	14:5I:41:ARG:NH1	2.13	0.47
15:6I:39:LEU:HD22	15:6I:43:LEU:HG	1.97	0.47
17:8I:52:LYS:HD2	17:8I:55:ASP:OD1	2.15	0.47
23:2K:72:C:H2'	23:2K:73:A:O4'	2.14	0.47
24:3K:13:C:O2'	24:3K:14:A:H5'	2.15	0.47
25:4K:24:A:H8	25:4K:24:A:O5'	1.98	0.47
26:1H:121:G:H4'	26:1H:149:A:H5'	1.96	0.47
26:1H:192:C:O2'	26:1H:802:A:N3	2.40	0.47
26:1H:548:A:C6	26:1H:549:G:H1'	2.50	0.47
26:1H:956:G:N2	26:1H:959:A:H3'	2.30	0.47
26:1H:956:G:OP2	38:88:14:ARG:NH2	2.48	0.47
26:1H:1248:G:C5	42:C8:3:ARG:HB2	2.50	0.47
26:1H:1375:C:H2'	26:1H:1376:C:C6	2.50	0.47
26:1H:1437:C:C2	26:1H:1438:U:C5	3.03	0.47
26:1H:2024:G:H2'	26:1H:2025:C:H6	1.79	0.47
26:1H:2656:U:C5	26:1H:2664:G:N2	2.83	0.47
31:31:24:LEU:HA	31:31:25:PRO:HD2	1.73	0.47
32:41:16:ARG:O	32:41:20:ILE:HG13	2.15	0.47
44:E8:33:ARG:NE	44:E8:52:GLU:OE1	2.47	0.47
51:L8:4:LEU:HD12	51:L8:4:LEU:H	1.80	0.47
54:P8:8:ASN:OD1	54:P8:8:ASN:C	2.57	0.47
1:1G:537:G:H2'	1:1G:538:G:C8	2.49	0.47
1:1G:600:C:OP1	8:72:97:VAL:HG23	2.15	0.47
1:1G:686:U:H1'	1:1G:687:A:C8	2.50	0.47
1:1G:827:U:C4	1:1G:870:U:C4	3.03	0.47
1:1G:1240:U:C2	7:62:32:ARG:HG3	2.49	0.47
1:1G:1297:C:OP1	13:4A:13:LYS:HG3	2.14	0.47
1:1G:1512:U:H2'	1:1G:1513:A:C8	2.50	0.47
4:32:201:GLN:HA	4:32:204:ILE:HB	1.96	0.47
26:14:1027:A:H2	26:14:2487:G:O2'	1.98	0.47
26:14:1274:A:N1	26:14:1644:C:O2'	2.42	0.47
26:14:1593:G:H5"	26:14:1594:G:OP2	2.15	0.47
26:14:1885:A:H5'	26:14:1886:C:OP2	2.15	0.47
26:14:2098:U:H2'	26:14:2099:U:O4'	2.14	0.47
26:14:2147:G:H2'	26:14:2148:G:H4'	1.96	0.47
26:14:2640:G:H1	26:14:2774:C:H42	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2773:C:OP1	30:29:166:THR:OG1	2.32	0.47
30:29:201:THR:HG22	30:29:202:LYS:N	2.30	0.47
34:69:140:LEU:HD12	34:69:140:LEU:HA	1.63	0.47
35:15:133:GLN:O	35:15:134:ARG:HB3	2.15	0.47
37:35:70:GLN:N	37:35:70:GLN:OE1	2.48	0.47
37:35:111:ARG:HG3	37:35:128:HIS:ND1	2.29	0.47
39:55:25:ALA:O	39:55:29:LEU:HB2	2.15	0.47
47:D5:163:LEU:HD23	47:D5:163:LEU:H	1.79	0.47
1:13:45:U:H2'	1:13:46:G:C8	2.50	0.46
1:13:300:A:H1'	1:13:565:U:O2	2.15	0.46
1:13:811:C:N3	59:13:1811:HOH:O	2.36	0.46
1:13:953:G:H2'	1:13:954:G:O4'	2.14	0.46
1:13:973:G:OP1	10:1I:57:LYS:HD3	2.15	0.46
1:13:1086:U:H3	1:13:1099:G:N2	2.12	0.46
1:13:1178:G:N2	1:13:1181:G:C8	2.83	0.46
1:13:1347:G:H8	9:8E:107:ARG:HB3	1.79	0.46
1:13:1414:U:H2'	1:13:1415:G:C8	2.50	0.46
2:1E:17:PHE:N	2:1E:17:PHE:CD1	2.83	0.46
2:1E:235:SER:HG	2:1E:236:TYR:HD2	1.61	0.46
4:3E:62:GLN:O	4:3E:66:ARG:HB2	2.16	0.46
5:4E:148:VAL:O	5:4E:151:LEU:HB2	2.15	0.46
7:6E:95:ARG:NH2	7:6E:99:LEU:HD11	2.29	0.46
8:7E:87:SER:HB3	8:7E:133:LEU:O	2.15	0.46
11:2I:124:LYS:HD2	11:2I:125:PHE:HE1	1.80	0.46
12:3I:60:LEU:HD21	12:3I:66:VAL:HG12	1.97	0.46
23:2K:64:G:C2	23:2K:65:G:C8	3.03	0.46
26:1H:11:G:H2'	26:1H:12:U:H5'	1.97	0.46
26:1H:548:A:C8	26:1H:548:A:H3'	2.50	0.46
26:1H:910:A:C6	26:1H:911:A:C6	3.03	0.46
26:1H:1061:U:O3'	26:1H:1070:A:H4'	2.16	0.46
26:1H:1229:G:C2	26:1H:1229(A):G:H1'	2.50	0.46
26:1H:1853:A:H2'	26:1H:1854:A:C8	2.50	0.46
26:1H:2031:A:C6	26:1H:2498:C:H1'	2.49	0.46
26:1H:2233:U:H2'	26:1H:2234:G:C8	2.51	0.46
27:16:7:G:O5'	40:A8:29:PHE:CE2	2.68	0.46
29:11:238:GLY:O	29:11:239:ARG:C	2.57	0.46
30:21:29:GLY:N	30:21:51:PHE:HE1	2.10	0.46
31:31:108:LYS:NZ	31:31:112:MET:SD	2.88	0.46
33:51:10:PRO:HD2	33:51:50:VAL:O	2.14	0.46
34:61:9:LEU:HD21	34:61:35:LEU:HD12	1.96	0.46
35:58:120:LEU:C	35:58:120:LEU:HD22	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:1:MET:CE	37:78:6:LEU:HD13	2.44	0.46
42:C8:47:TYR:C	42:C8:47:TYR:HD1	2.22	0.46
48:I8:49:LYS:HG3	48:I8:80:HIS:ND1	2.29	0.46
1:1G:693:G:H2'	1:1G:694:A:C8	2.51	0.46
1:1G:984:C:H2'	1:1G:985:C:C6	2.50	0.46
5:42:142:LEU:HA	5:42:142:LEU:HD23	1.65	0.46
8:72:29:SER:HB3	8:72:32:LYS:HB2	1.97	0.46
24:3L:51:U:H2'	24:3L:52:G:C8	2.50	0.46
26:14:16:G:O2'	26:14:17:G:H5'	2.14	0.46
26:14:71:A:H8	26:14:71:A:H5'	1.80	0.46
26:14:99:U:C2	26:14:102:G:N2	2.83	0.46
26:14:191:A:H2'	26:14:192:C:H6	1.78	0.46
26:14:601:C:H5'	31:39:108:LYS:HZ1	1.80	0.46
26:14:662:G:H5'	37:35:15:ARG:C	2.40	0.46
26:14:817:C:O2'	26:14:839:U:H5"	2.15	0.46
26:14:963:U:H2'	26:14:964:C:H6	1.76	0.46
26:14:1069:A:H2	26:14:1094:U:H3	1.60	0.46
26:14:1465:G:C2	26:14:1466:G:C8	3.02	0.46
26:14:2657:A:O3'	33:59:160:LYS:NZ	2.48	0.46
30:29:11:MET:HE3	30:29:186:GLY:HA2	1.98	0.46
30:29:56:PRO:HD2	30:29:58:ARG:CB	2.40	0.46
30:29:170:LEU:HD11	30:29:185:LYS:O	2.14	0.46
31:39:89:VAL:O	31:39:90:PHE:C	2.57	0.46
32:49:107:LEU:HD21	32:49:178:PHE:CD1	2.50	0.46
39:55:74:LYS:CE	39:55:77:ARG:HH21	2.28	0.46
42:85:91:ASP:CG	42:85:96:ALA:HB2	2.39	0.46
47:D5:39:VAL:HG23	47:D5:40:ASP:N	2.29	0.46
1:13:328:C:H4'	1:13:329:A:H5'	1.97	0.46
1:13:683:G:C6	1:13:684:A:C6	3.04	0.46
1:13:918:A:C2	1:13:919:A:C4	3.03	0.46
2:1E:178:ARG:HH12	2:1E:196:LEU:C	2.22	0.46
4:3E:92:VAL:HG12	4:3E:96:LEU:HD21	1.97	0.46
4:3E:129:ASN:OD1	4:3E:145:GLU:N	2.48	0.46
4:3E:176:LEU:HD23	4:3E:178:VAL:HG22	1.98	0.46
8:7E:33:GLU:O	8:7E:36:LEU:N	2.49	0.46
10:1I:57:LYS:HD2	10:1I:60:ARG:HH12	1.79	0.46
15:6I:74:ASP:CG	15:6I:77:ARG:HG2	2.40	0.46
19:AI:39:THR:HG22	19:AI:40:ILE:H	1.80	0.46
20:BI:50:GLU:HB2	20:BI:100:ILE:HB	1.97	0.46
26:1H:271:G:H1	26:1H:366:C:H42	1.63	0.46
26:1H:638:G:C6	26:1H:639:U:C4	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:937:U:H2'	26:1H:938:G:O4'	2.15	0.46
26:1H:1021:A:C8	26:1H:1022:G:H5"	2.47	0.46
26:1H:1528:A:C6	26:1H:1529:A:C6	3.03	0.46
26:1H:1551:C:C5	26:1H:1552:G:N7	2.83	0.46
26:1H:1783:A:H5'	26:1H:2608:G:H4'	1.96	0.46
26:1H:1799:G:H5"	26:1H:1819:A:N6	2.30	0.46
26:1H:2845:G:H8	26:1H:2845:G:O5'	1.98	0.46
29:11:136:ILE:O	29:11:168:ARG:NH2	2.47	0.46
32:41:35:GLU:OE1	32:41:36:LYS:N	2.47	0.46
36:68:5:GLN:O	36:68:20:MET:HE2	2.16	0.46
40:A8:29:PHE:HD1	40:A8:30:ARG:N	2.13	0.46
41:B8:88:ILE:HG13	41:B8:88:ILE:O	2.14	0.46
43:D8:40:LEU:HD13	43:D8:41:GLY:H	1.80	0.46
44:E8:88:ARG:H	44:E8:93:ALA:H	1.63	0.46
49:J8:93:GLU:O	49:J8:97:LEU:HB2	2.14	0.46
1:1G:154:C:H2'	1:1G:155:C:C6	2.50	0.46
1:1G:681:C:C2	1:1G:710:G:C2	3.04	0.46
1:1G:1015:A:C2	1:1G:1016:A:C4	3.04	0.46
1:1G:1259:C:H42	1:1G:1275:A:H61	1.62	0.46
1:1G:1298:C:H4'	1:1G:1299:A:C8	2.51	0.46
1:1G:1326:C:H2'	1:1G:1327:C:H6	1.80	0.46
3:22:108:ASN:C	3:22:110:ASN:H	2.23	0.46
6:52:2:ARG:HH21	6:52:69:GLU:HG3	1.80	0.46
8:72:82:HIS:HB3	8:72:138:TRP:CZ3	2.50	0.46
14:5A:53:LEU:HD22	14:5A:53:LEU:HA	1.69	0.46
20:BA:54:LYS:HA	20:BA:57:ARG:NH1	2.30	0.46
26:14:453:C:H4'	26:14:472:A:N6	2.30	0.46
26:14:592:G:H21	55:M5:4:MET:CE	2.27	0.46
26:14:746:A:H2'	26:14:2612:C:H5"	1.96	0.46
26:14:857:C:H2'	26:14:858:U:H6	1.80	0.46
26:14:924:C:N4	26:14:925:C:N4	2.63	0.46
26:14:1006:C:O2'	35:15:106:MET:O	2.28	0.46
26:14:1154:G:OP2	42:85:58:ARG:NH1	2.48	0.46
26:14:1542:G:H3'	26:14:1543:A:C5'	2.43	0.46
26:14:1993:U:H4'	30:29:128:SER:CB	2.46	0.46
26:14:2123:G:N2	26:14:2175:C:N3	2.56	0.46
26:14:2419:U:H2'	26:14:2420:C:H6	1.80	0.46
26:14:2489:G:N7	26:14:2490:G:C6	2.83	0.46
26:14:2615:U:C2	53:J5:7:PRO:HA	2.50	0.46
26:14:2822:G:OP2	59:14:3919:HOH:O	2.20	0.46
36:25:13:ASN:HD21	36:25:97:ARG:N	2.09	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:75:88:ILE:HD12	41:75:89:VAL:N	2.30	0.46
41:75:91:ARG:O	41:75:116:ALA:HA	2.15	0.46
46:C5:33:LYS:HG2	46:C5:34:LYS:HG3	1.97	0.46
47:D5:14:LYS:HA	47:D5:15:PRO:HD2	1.59	0.46
49:F5:79:GLY:O	49:F5:80:LEU:HG	2.15	0.46
1:13:1305:G:H21	1:13:1331:G:C2'	2.24	0.46
2:1E:15:VAL:HB	2:1E:210:SER:HB2	1.97	0.46
2:1E:23:ARG:HB3	2:1E:23:ARG:NH1	2.31	0.46
5:4E:71:LEU:HA	5:4E:75:THR:O	2.16	0.46
8:7E:116:LYS:HG2	8:7E:129:VAL:HG11	1.97	0.46
15:6I:10:LYS:HA	15:6I:10:LYS:HD2	1.78	0.46
17:8I:6:LEU:HD22	17:8I:23:VAL:HG11	1.97	0.46
23:2K:38:A:H2'	23:2K:39:A:O4'	2.15	0.46
23:2K:50:G:N2	23:2K:67:C:O2	2.49	0.46
26:1H:17:G:H2'	26:1H:18:C:C6	2.50	0.46
26:1H:1442:G:C2	26:1H:1550:C:O2	2.69	0.46
26:1H:1667:G:O2'	26:1H:1991:U:O4	2.28	0.46
26:1H:1756:G:H4'	26:1H:1758:G:O4'	2.15	0.46
26:1H:2035:G:H4'	26:1H:2036:C:OP2	2.14	0.46
26:1H:2176:A:HO2'	28:71:213:TYR:HD2	1.60	0.46
26:1H:2392:A:H8	37:78:61:ARG:HG2	1.81	0.46
26:1H:2845:G:H5"	41:B8:54:ARG:O	2.16	0.46
27:16:71:C:C2	27:16:72:G:C8	3.04	0.46
31:31:53:THR:C	31:31:55:GLY:N	2.71	0.46
35:58:96:GLU:O	35:58:98:VAL:HG13	2.16	0.46
37:78:24:GLY:C	37:78:26:GLY:H	2.23	0.46
44:E8:37:ARG:HB3	44:E8:38:TYR:HD1	1.80	0.46
45:F8:1:MET:C	45:F8:3:THR:N	2.73	0.46
50:K8:5:GLU:OE1	50:K8:5:GLU:N	2.49	0.46
55:Q8:25:MET:HE3	55:Q8:46:ARG:HD2	1.97	0.46
55:Q8:56:GLU:O	55:Q8:57:ARG:HG3	2.15	0.46
1:1G:666:G:N2	1:1G:740:U:O2	2.42	0.46
1:1G:698:G:C6	1:1G:699:C:C4	3.03	0.46
1:1G:719:C:O2'	18:9A:49:LYS:HB3	2.14	0.46
1:1G:770:C:O2'	1:1G:771:G:H5'	2.15	0.46
1:1G:1265:G:H2'	1:1G:1266:G:O4'	2.15	0.46
3:22:3:ASN:ND2	3:22:3:ASN:H	2.12	0.46
7:62:116:ALA:HA	7:62:119:ARG:HE	1.81	0.46
7:62:120:ILE:O	7:62:124:LEU:HB2	2.15	0.46
7:62:143:ARG:NH1	24:3L:41:C:O3'	2.32	0.46
11:2A:92:GLU:O	11:2A:95:ILE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:3L:30:G:C2	24:3L:31:A:C5	3.03	0.46
24:3L:55:PSU:H2'	24:3L:57:G:OP2	2.16	0.46
26:14:707:G:C6	26:14:708:C:C4	3.03	0.46
26:14:750:A:OP2	59:14:3672:HOH:O	2.21	0.46
26:14:993:G:C6	26:14:1162:G:N1	2.84	0.46
26:14:996:A:H4'	42:85:92:ARG:CZ	2.45	0.46
26:14:1987:G:N2	26:14:1988:C:C2	2.84	0.46
26:14:2031:A:C6	26:14:2498:C:H1'	2.50	0.46
26:14:2207:C:H42	26:14:2217:G:H1	1.63	0.46
26:14:2320:A:H61	26:14:2333:A:H2'	1.79	0.46
26:14:2432:A:H2'	26:14:2433:A:C8	2.50	0.46
27:1J:31:C:H42	27:1J:51:G:H1	1.62	0.46
29:19:97:TYR:HB3	29:19:99:ASP:HB2	1.98	0.46
33:59:101:ARG:HG3	33:59:102:ALA:N	2.29	0.46
37:35:52:GLU:O	37:35:54:GLY:N	2.47	0.46
40:65:16:ASN:ND2	40:65:16:ASN:H	2.09	0.46
40:65:26:LEU:HD12	40:65:39:ILE:HD11	1.97	0.46
43:95:7:THR:HG23	43:95:22:VAL:HG21	1.98	0.46
43:95:19:LYS:HB2	43:95:93:GLU:OE2	2.15	0.46
44:A5:35:ILE:HG23	53:J5:28:PRO:HD2	1.98	0.46
50:G5:49:LYS:HB2	50:G5:49:LYS:HE3	1.77	0.46
55:M5:17:THR:OG1	55:M5:20:GLY:N	2.49	0.46
1:13:591:U:H2'	1:13:592:G:C8	2.51	0.46
1:13:661:G:N2	1:13:744:C:N3	2.42	0.46
1:13:683:G:H5"	1:13:684:A:OP2	2.15	0.46
1:13:717:C:H2'	1:13:734:G:OP2	2.15	0.46
1:13:926:G:H5'	1:13:927:G:O5'	2.14	0.46
1:13:936:C:H2'	1:13:937:A:O4'	2.15	0.46
1:13:963:G:H21	10:1I:55:LYS:HE2	1.80	0.46
1:13:976:G:H5'	1:13:1358:U:O2'	2.14	0.46
1:13:1260:C:H3'	1:13:1260:C:H6	1.80	0.46
1:13:1330:U:O4	1:13:1331:G:C2	2.68	0.46
1:13:1507:A:H2'	1:13:1508:G:C8	2.50	0.46
4:3E:167:GLY:C	4:3E:168:ARG:HG2	2.40	0.46
11:2I:83:ILE:HG23	11:2I:109:VAL:HG23	1.98	0.46
16:7I:19:ILE:HB	16:7I:36:ILE:O	2.15	0.46
23:2K:57:C:O2'	32:41:78:SER:HB2	2.16	0.46
24:3K:9:A:O2'	24:3K:46:7MG:H5"	2.15	0.46
25:4K:16:A:C2	25:4K:17:U:C2	3.04	0.46
26:1H:518:G:H2'	26:1H:519:U:H6	1.79	0.46
26:1H:1177:A:H5"	26:1H:1178:C:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1263:U:H2'	26:1H:1264:G:C8	2.50	0.46
26:1H:1701:A:OP2	59:1H:4267:HOH:O	2.20	0.46
26:1H:1858:G:H1'	26:1H:1884:A:N6	2.31	0.46
26:1H:2157:G:HO2'	26:1H:2158:A:P	2.38	0.46
26:1H:2581:G:H4'	26:1H:2582:G:C8	2.50	0.46
26:1H:2661:G:OP2	26:1H:2661:G:H8	1.98	0.46
28:71:58:VAL:HG13	28:71:199:HIS:HD2	1.80	0.46
29:11:33:LEU:O	29:11:64:ILE:HG23	2.15	0.46
32:41:115:ARG:HH21	32:41:137:GLU:CD	2.23	0.46
36:68:64:ARG:HG2	36:68:79:PHE:CD2	2.50	0.46
38:88:20:ALA:HB3	47:H8:79:ARG:NH2	2.31	0.46
39:98:72:ASP:OD1	39:98:73:VAL:N	2.47	0.46
40:A8:36:TYR:N	40:A8:36:TYR:CD1	2.83	0.46
47:H8:44:PHE:CD1	47:H8:44:PHE:C	2.93	0.46
49:J8:73:LEU:O	49:J8:76:ARG:HB2	2.16	0.46
55:Q8:5:LYS:N	55:Q8:59:LYS:HZ2	2.13	0.46
1:1G:25:C:H2'	1:1G:26:A:C8	2.48	0.46
1:1G:349:A:H3'	1:1G:350:G:H5"	1.97	0.46
1:1G:424:G:H2'	1:1G:425:G:C8	2.46	0.46
1:1G:510:A:H1'	1:1G:542:G:H21	1.80	0.46
1:1G:515:G:C6	1:1G:516:U:N3	2.83	0.46
1:1G:971:G:C6	1:1G:1364:U:O2'	2.68	0.46
2:12:82:ARG:HG3	2:12:92:TYR:OH	2.15	0.46
8:72:2:LEU:HD21	8:72:8:ASP:HB2	1.98	0.46
15:6A:78:TYR:CD1	15:6A:79:ARG:HG3	2.50	0.46
19:AA:12:ASP:HB3	19:AA:38:SER:CB	2.45	0.46
24:3L:35:A:C2	25:4L:14:A:N6	2.83	0.46
26:14:265:A:H1'	26:14:266:G:O4'	2.15	0.46
26:14:284:U:H2'	26:14:285:C:C6	2.51	0.46
26:14:322:A:OP2	31:39:169:ASN:HB2	2.16	0.46
26:14:323:G:O6	26:14:333:G:C5	2.69	0.46
26:14:475:U:O5'	26:14:475:U:H6	1.98	0.46
26:14:1394:U:C5	26:14:1395:A:C4	3.04	0.46
26:14:1559:G:O2'	26:14:1560:G:H5'	2.14	0.46
26:14:1654:A:H1'	26:14:2823:A:H5'	1.98	0.46
26:14:2844:G:N2	26:14:2874:C:C2	2.84	0.46
33:59:99:VAL:HG13	33:59:100:GLY:H	1.79	0.46
46:C5:49:VAL:O	46:C5:51:VAL:HG12	2.16	0.46
47:D5:62:PRO:C	47:D5:64:GLY:H	2.24	0.46
1:13:153:C:N4	1:13:168:G:H22	2.13	0.46
1:13:439:A:H3'	1:13:440:A:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:629:G:N2	1:13:630:G:C6	2.84	0.46
7:6E:79:ARG:NH1	7:6E:82:GLY:O	2.49	0.46
8:7E:133:LEU:HD23	8:7E:134:ILE:N	2.31	0.46
14:5I:24:CYS:SG	14:5I:40:CYS:N	2.75	0.46
14:5I:50:LYS:HB3	14:5I:50:LYS:HE2	1.76	0.46
17:8I:76:LEU:HD11	17:8I:79:SER:CB	2.46	0.46
18:9I:35:ARG:HE	18:9I:35:ARG:HB2	1.59	0.46
20:BI:16:HIS:O	20:BI:19:SER:N	2.48	0.46
22:1K:10:G:H2'	22:1K:11:A:H8	1.80	0.46
26:1H:198:C:P	59:1H:4370:HOH:O	2.73	0.46
26:1H:247:G:H4'	26:1H:386:G:C5	2.51	0.46
26:1H:273(D):C:H2'	26:1H:273(E):U:H6	1.79	0.46
26:1H:339:U:H2'	26:1H:340:A:H8	1.81	0.46
26:1H:603:A:C4	26:1H:655:A:N1	2.83	0.46
26:1H:649:G:C5	26:1H:650:C:C4	3.04	0.46
26:1H:676:A:H2	26:1H:802:A:H61	1.63	0.46
26:1H:910:A:C4	38:88:13:GLN:NE2	2.83	0.46
26:1H:1001:A:H2'	26:1H:1002:G:O4'	2.15	0.46
26:1H:1102:C:H2'	26:1H:1103:A:C8	2.50	0.46
26:1H:1153:C:C4	26:1H:1154:G:C6	3.04	0.46
26:1H:1359:A:N1	26:1H:1372:U:C4	2.83	0.46
26:1H:1676:A:H2'	26:1H:1677:A:O4'	2.15	0.46
26:1H:1858:G:H8	26:1H:1858:G:OP2	1.98	0.46
31:31:24:LEU:HD23	31:31:115:ALA:HA	1.96	0.46
32:41:61:ALA:O	52:M8:7:PRO:HG3	2.15	0.46
32:41:145:THR:OG1	32:41:148:MET:SD	2.73	0.46
33:51:129:THR:O	33:51:129:THR:OG1	2.32	0.46
43:D8:9:GLY:O	43:D8:10:LYS:HG3	2.15	0.46
55:Q8:57:ARG:H	55:Q8:57:ARG:HE	1.63	0.46
1:1G:695:A:H2	1:1G:787:A:HO2'	1.61	0.46
1:1G:1127:G:N2	1:1G:1144:G:H1	1.95	0.46
1:1G:1231:G:H5'	9:82:128:ARG:O	2.15	0.46
1:1G:1245:A:H2'	1:1G:1246:C:C6	2.50	0.46
1:1G:1340:A:N1	1:1G:1341:U:O2	2.48	0.46
4:32:13:ARG:C	4:32:15:GLU:N	2.73	0.46
5:42:24:ARG:H	5:42:24:ARG:HG2	1.48	0.46
14:5A:7:ILE:H	14:5A:7:ILE:HG13	1.62	0.46
16:7A:3:LYS:O	16:7A:21:VAL:HA	2.16	0.46
20:BA:50:GLU:N	20:BA:100:ILE:HG12	2.30	0.46
20:BA:73:HIS:O	20:BA:76:ALA:HB3	2.16	0.46
24:3L:21:A:H5'	24:3L:22:G:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:307:G:H2'	26:14:309:G:OP2	2.15	0.46
26:14:321:G:N3	31:39:165:ARG:HD3	2.30	0.46
26:14:795:C:O2'	26:14:796:C:H5'	2.15	0.46
26:14:1454:U:H3'	59:14:3916:HOH:O	2.16	0.46
26:14:2441:C:O2'	26:14:2442:C:H5'	2.15	0.46
26:14:2638:G:HO2'	26:14:2639:A:H8	1.62	0.46
29:19:37:LEU:HB3	29:19:38:LYS:HE2	1.97	0.46
29:19:218:ARG:HB3	29:19:219:PRO:HD2	1.98	0.46
31:39:59:TYR:N	31:39:59:TYR:HD1	2.12	0.46
33:59:117:PRO:HA	33:59:118:PRO:HD2	1.74	0.46
35:15:29:LYS:O	35:15:33:LEU:HB2	2.15	0.46
35:15:96:GLU:H	35:15:96:GLU:CD	2.24	0.46
36:25:104:ARG:HH12	41:75:36:GLU:HG2	1.80	0.46
38:45:102:VAL:O	38:45:102:VAL:HG12	2.15	0.46
46:C5:86:ARG:O	46:C5:96:ILE:HD13	2.16	0.46
49:F5:4:VAL:HB	49:F5:11:ARG:HB3	1.97	0.46
49:F5:7:ILE:HD11	49:F5:70:VAL:HG22	1.97	0.46
53:J5:6:VAL:HG13	53:J5:7:PRO:HD2	1.98	0.46
54:L5:17:GLY:O	54:L5:20:ALA:HB3	2.16	0.46
1:13:67:C:H2'	1:13:68:G:C8	2.51	0.46
1:13:110:C:H2'	1:13:111:G:O4'	2.15	0.46
1:13:134:A:H61	16:7I:25:ARG:NH1	2.14	0.46
1:13:598:U:H2'	1:13:599:C:C6	2.49	0.46
2:1E:12:GLU:HG3	2:1E:16:HIS:HB2	1.96	0.46
7:6E:89:MET:SD	7:6E:156:TRP:HD1	2.38	0.46
17:8I:51:TYR:HD1	17:8I:55:ASP:OD2	1.98	0.46
19:AI:40:ILE:O	19:AI:41:VAL:HG22	2.16	0.46
26:1H:260:G:C2	26:1H:261:G:H1'	2.51	0.46
26:1H:315:G:C2	26:1H:316:C:C2	3.03	0.46
26:1H:579:G:H2'	26:1H:580:C:C6	2.51	0.46
26:1H:638:G:C5	26:1H:651:G:C2	3.03	0.46
26:1H:884:C:H2'	26:1H:885:C:C6	2.50	0.46
26:1H:1009:A:OP2	59:1H:4114:HOH:O	2.20	0.46
26:1H:1567:A:H2'	29:11:86:PRO:HB3	1.96	0.46
26:1H:2061:G:C2	26:1H:2063:C:C4	3.04	0.46
26:1H:2789:C:H3'	26:1H:2790:A:H5"	1.97	0.46
28:71:49:ILE:HG21	28:71:201:PRO:HG2	1.96	0.46
29:11:137:PRO:O	29:11:140:THR:OG1	2.27	0.46
37:78:19:VAL:HG21	37:78:27:HIS:CG	2.49	0.46
37:78:101:VAL:HG12	37:78:106:LEU:HD12	1.97	0.46
40:A8:15:ARG:HD3	40:A8:15:ARG:HA	1.65	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:85:LYS:HA	42:C8:85:LYS:NZ	2.31	0.46
45:F8:23:GLU:H	45:F8:23:GLU:HG2	1.47	0.46
1:1G:429:U:H1'	1:1G:430:A:H5"	1.98	0.46
1:1G:557:G:C6	1:1G:558:G:C6	3.04	0.46
1:1G:625:G:OP1	16:7A:9:PHE:HB3	2.16	0.46
1:1G:1306:A:N6	1:1G:1331:G:H1'	2.30	0.46
1:1G:1344:C:H5'	9:82:120:ARG:O	2.16	0.46
3:22:77:ILE:O	3:22:83:ARG:HB3	2.16	0.46
3:22:108:ASN:O	3:22:110:ASN:N	2.44	0.46
5:42:28:PHE:O	5:42:47:LYS:HA	2.15	0.46
15:6A:87:ILE:HG22	15:6A:88:ARG:N	2.23	0.46
17:8A:10:VAL:HG21	17:8A:52:LYS:O	2.16	0.46
24:3L:37:MIA:H162	24:3L:37:MIA:H121	1.69	0.46
26:14:270(E):G:N2	26:14:270(U):C:O2	2.47	0.46
26:14:467:G:OP1	54:L5:33:ARG:NH1	2.49	0.46
26:14:570:G:H5"	59:14:3964:HOH:O	2.15	0.46
26:14:993:G:C4	26:14:994:C:C5	3.04	0.46
26:14:1197:G:C2	26:14:1250:G:C6	3.04	0.46
26:14:1793:C:H2'	26:14:1794:U:H6	1.81	0.46
26:14:2069:G:C2'	26:14:2070:G:H5'	2.44	0.46
26:14:2070:G:H2'	26:14:2071:A:O4'	2.16	0.46
26:14:2420:C:N4	55:M5:31:HIS:O	2.48	0.46
32:49:107:LEU:HD21	32:49:178:PHE:CE1	2.49	0.46
33:59:127:GLU:O	33:59:129:THR:N	2.49	0.46
37:35:30:THR:HG21	37:35:35:HIS:N	2.30	0.46
51:H5:3:ARG:O	51:H5:58:VAL:HG13	2.15	0.46
53:J5:16:ARG:NH1	53:J5:17:ASP:OD1	2.38	0.46
1:13:22:G:H2'	1:13:23:C:C6	2.50	0.46
1:13:108:G:C2	1:13:109:A:C2	3.04	0.46
1:13:142:G:H22	1:13:221:C:N4	2.14	0.46
1:13:292:G:N7	1:13:293:G:H1'	2.30	0.46
1:13:412:A:OP2	4:3E:35:ARG:NH2	2.48	0.46
1:13:899:C:H2'	1:13:900:A:C8	2.51	0.46
1:13:1244:C:N3	1:13:1294:G:N2	2.64	0.46
1:13:1303:C:C4	1:13:1304:G:C5	3.04	0.46
4:3E:30:LYS:HB2	4:3E:35:ARG:HE	1.81	0.46
6:5E:46:ARG:HD2	6:5E:47:ARG:H	1.80	0.46
7:6E:13:GLN:HA	7:6E:14:PRO:HD3	1.79	0.46
17:8I:53:LEU:HB3	17:8I:82:MET:HE1	1.97	0.46
26:1H:995:C:O2	35:58:3:THR:OG1	2.28	0.46
26:1H:1505:C:H2'	26:1H:1506:C:H6	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1567:A:H5"	29:11:58:HIS:ND1	2.31	0.46
26:1H:1729:A:H8	26:1H:1730:U:C5	2.34	0.46
26:1H:1766:U:O2'	26:1H:1767:C:H5'	2.15	0.46
26:1H:2150:U:H6	26:1H:2150:U:O5'	1.99	0.46
26:1H:2321:G:H5"	26:1H:2322:A:OP2	2.16	0.46
26:1H:2510:C:H2'	26:1H:2511:U:H6	1.81	0.46
26:1H:2572:A:C8	30:21:144:ARG:NH1	2.83	0.46
26:1H:2725:A:C4	26:1H:2727:G:C8	3.04	0.46
30:21:181:LEU:HD12	30:21:181:LEU:HA	1.80	0.46
33:51:74:ASN:O	33:51:78:GLY:N	2.47	0.46
34:61:6:LEU:HD13	34:61:36:ALA:HA	1.98	0.46
36:68:12:ASP:HB3	36:68:85:VAL:HG13	1.97	0.46
37:78:121:LYS:O	37:78:123:LEU:N	2.48	0.46
38:88:37:LEU:HD21	38:88:130:LYS:CE	2.45	0.46
40:A8:25:ARG:O	40:A8:39:ILE:HA	2.16	0.46
40:A8:35:ILE:HD11	40:A8:101:LEU:HD22	1.96	0.46
55:Q8:47:LYS:NZ	55:Q8:47:LYS:HA	2.31	0.46
1:1G:199:G:H2'	1:1G:200:G:C8	2.49	0.46
1:1G:411:A:N7	1:1G:413:G:N3	2.64	0.46
1:1G:514:C:H2'	1:1G:515:G:H8	1.80	0.46
1:1G:814:A:N7	1:1G:816:A:C4	2.84	0.46
1:1G:1104:G:C4	1:1G:1105:A:C8	3.03	0.46
1:1G:1127:G:N3	1:1G:1147:C:N4	2.63	0.46
1:1G:1372:U:H5"	9:82:71:SER:HB2	1.98	0.46
2:12:236:TYR:HB2	2:12:239:VAL:HB	1.98	0.46
8:72:93:VAL:O	8:72:132:GLU:HA	2.16	0.46
9:82:10:ARG:CA	9:82:104:ARG:HH21	2.29	0.46
11:2A:21:ILE:HG12	11:2A:30:VAL:HG12	1.97	0.46
15:6A:58:MET:H	15:6A:58:MET:HG3	1.53	0.46
26:14:57:C:H2'	26:14:58:G:O4'	2.16	0.46
26:14:363:G:H2'	26:14:363(A):A:C8	2.51	0.46
26:14:459:U:H2'	26:14:460:A:C8	2.51	0.46
26:14:1003:G:N2	26:14:1153:C:C2	2.83	0.46
26:14:1224:G:N2	26:14:1227:A:OP2	2.34	0.46
26:14:1727:U:H2'	26:14:1728:G:O4'	2.16	0.46
26:14:2273:A:H2'	26:14:2274:A:C8	2.51	0.46
26:14:2694:G:O2'	26:14:2695:C:H5'	2.15	0.46
59:14:3532:HOH:O	41:75:54:ARG:HD2	2.15	0.46
27:1J:43:C:OP1	52:I5:6:HIS:HE1	1.98	0.46
27:1J:46:A:C5	27:1J:47:C:C4	3.04	0.46
27:1J:116:G:H2'	27:1J:117:G:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:29:12:THR:O	30:29:23:VAL:HG22	2.16	0.46
30:29:50:GLY:HA2	30:29:78:LEU:HB3	1.98	0.46
35:15:90:MET:HE1	35:15:97:ARG:HB2	1.98	0.46
36:25:66:LYS:HD2	36:25:80:ASP:O	2.16	0.46
40:65:67:ARG:HB2	40:65:67:ARG:NH1	2.30	0.46
41:75:1:MET:HB3	41:75:6:LEU:HB2	1.97	0.46
42:85:47:TYR:HA	42:85:50:ARG:HH22	1.81	0.46
42:85:85:LYS:HB3	42:85:116:ALA:HB1	1.97	0.46
48:E5:72:ARG:HE	48:E5:75:LEU:HD12	1.81	0.46
1:13:353:A:H8	1:13:353:A:H5'	1.81	0.46
1:13:643:C:H2'	1:13:644:G:H8	1.79	0.46
1:13:823:G:H2'	1:13:824:C:O4'	2.16	0.46
3:2E:92:ALA:HA	3:2E:95:THR:OG1	2.16	0.46
4:3E:43:HIS:O	4:3E:46:LYS:HG2	2.16	0.46
5:4E:41:VAL:O	5:4E:67:VAL:HG12	2.16	0.46
9:8E:118:LYS:O	9:8E:119:ALA:HB3	2.16	0.46
18:9I:47:THR:O	18:9I:83:GLU:N	2.42	0.46
19:AI:67:VAL:CG1	52:M8:60:GLN:HE21	2.28	0.46
24:3K:37:MIA:H2'	24:3K:38:A:C8	2.50	0.46
26:1H:271(B):G:H1	26:1H:404:C:N4	2.09	0.46
26:1H:920:G:O2'	26:1H:921:G:H5'	2.16	0.46
26:1H:1040:C:H2'	26:1H:1041:C:O4'	2.16	0.46
26:1H:1058:U:H3	26:1H:1080:A:N6	2.14	0.46
26:1H:1242:A:H2'	26:1H:1243:G:O4'	2.15	0.46
26:1H:1478:G:O2'	26:1H:1558:A:H2	1.99	0.46
26:1H:1636:C:H2'	26:1H:1637:A:H8	1.81	0.46
26:1H:1810:A:H2'	26:1H:1811:G:O4'	2.16	0.46
26:1H:1832:C:N4	26:1H:1833:U:C4	2.84	0.46
26:1H:1835:G:H5'	26:1H:1836:C:OP2	2.16	0.46
26:1H:2392:A:H2	26:1H:2424:C:N4	2.13	0.46
34:61:97:ILE:O	34:61:101:LEU:N	2.35	0.46
47:H8:30:ASN:HD22	47:H8:90:VAL:HB	1.80	0.46
48:I8:39:ARG:HD3	48:I8:58:THR:OG1	2.16	0.46
53:N8:49:CYS:HA	53:N8:56:LYS:HG3	1.97	0.46
1:1G:109:A:H5'	1:1G:110:C:C5	2.51	0.46
1:1G:131:C:H2'	1:1G:132:C:C6	2.50	0.46
1:1G:187:C:H2'	1:1G:188:U:O4'	2.16	0.46
1:1G:262:A:C6	1:1G:263:A:C6	3.04	0.46
1:1G:501:C:OP1	12:3A:117:ARG:NH2	2.48	0.46
1:1G:573:A:H2	1:1G:574:A:C2	2.34	0.46
1:1G:1153:C:OP1	10:1A:14:LYS:NZ	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1236:A:H2'	1:1G:1237:C:C6	2.51	0.46
1:1G:1305:G:H5"	21:1B:4:GLY:C	2.41	0.46
1:1G:1321:C:H4'	13:4A:87:TYR:CE2	2.51	0.46
1:1G:1325:C:H2'	1:1G:1326:C:H6	1.81	0.46
1:1G:1400:C:N4	56:2L:35:C:H1'	2.31	0.46
3:22:91:LEU:HD23	3:22:91:LEU:N	2.30	0.46
6:52:23:LYS:HB3	6:52:23:LYS:HE2	1.79	0.46
7:62:89:MET:CE	7:62:155:ARG:HG3	2.45	0.46
9:82:37:PHE:CE2	9:82:74:ILE:HG12	2.50	0.46
19:AA:66:MET:HA	19:AA:67:VAL:O	2.16	0.46
56:2L:54:G:H3'	56:2L:55:U:OP1	2.15	0.46
26:14:24:G:O2'	44:A5:77:ASP:HB3	2.16	0.46
26:14:270(S):G:C2	26:14:270(T):G:C5	3.04	0.46
26:14:389:G:H1	37:35:71:VAL:HG12	1.81	0.46
26:14:491:G:N2	26:14:492:A:H1'	2.31	0.46
26:14:975:G:C6	26:14:976:C:C5	3.04	0.46
26:14:1015:G:C6	26:14:1148:A:C6	3.04	0.46
26:14:1152:C:H4'	42:85:77:SER:HA	1.97	0.46
26:14:1246:A:H4'	31:39:45:ARG:HH12	1.81	0.46
26:14:1623:G:C2	26:14:1624:G:C8	3.04	0.46
26:14:1663:C:H2'	59:14:3514:HOH:O	2.15	0.46
26:14:1784:A:H4'	26:14:1785:A:C5'	2.46	0.46
26:14:1799:G:N2	26:14:1818:U:O2'	2.49	0.46
30:29:199:ARG:HB3	30:29:200:GLU:OE1	2.15	0.46
33:59:101:ARG:HD2	33:59:123:PHE:CZ	2.51	0.46
34:69:14:ASP:O	34:69:17:GLN:HB2	2.16	0.46
34:69:116:LEU:HD12	34:69:117:GLU:OE2	2.16	0.46
36:25:93:PRO:HD3	36:25:113:LYS:HG3	1.98	0.46
42:85:92:ARG:HD3	42:85:94:ASN:HB3	1.98	0.46
46:C5:67:LEU:HD12	46:C5:67:LEU:HA	1.82	0.46
47:D5:23:LYS:HD3	47:D5:40:ASP:HA	1.97	0.46
1:13:37:U:H2'	1:13:38:G:H8	1.81	0.46
1:13:46:G:H2'	1:13:366:C:C5	2.51	0.46
1:13:465:A:N7	1:13:467:G:N7	2.64	0.46
1:13:545:C:OP1	4:3E:61:LYS:NZ	2.38	0.46
1:13:639:G:C4	1:13:640:A:C8	3.03	0.46
1:13:1160:G:N3	1:13:1160:G:H2'	2.30	0.46
1:13:1384:C:H2'	1:13:1385:G:C8	2.51	0.46
2:1E:96:ARG:N	2:1E:96:ARG:HD2	2.31	0.46
2:1E:189:ASP:HB2	2:1E:205:ASP:HB3	1.97	0.46
4:3E:202:LEU:O	4:3E:206:PHE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:4E:43:LEU:HD11	5:4E:132:ALA:HB1	1.98	0.46
6:5E:14:LEU:HA	6:5E:14:LEU:HD23	1.70	0.46
6:5E:24:GLU:HG3	6:5E:28:ARG:HH12	1.80	0.46
9:8E:79:LEU:HD22	9:8E:83:ARG:HD2	1.97	0.46
10:1I:3:LYS:N	10:1I:75:ILE:HA	2.30	0.46
10:1I:5:ARG:HB2	10:1I:73:ASP:OD1	2.15	0.46
23:2K:50:G:N2	23:2K:67:C:C2	2.84	0.46
26:1H:973:A:P	59:1H:3811:HOH:O	2.74	0.46
26:1H:1448:G:N2	26:1H:1449:A:N6	2.64	0.46
26:1H:1528:A:N6	26:1H:1545:A:C2	2.84	0.46
26:1H:1550:C:OP1	26:1H:1727:U:O2'	2.33	0.46
26:1H:2032:G:H21	30:21:146:THR:CG2	2.20	0.46
26:1H:2766:G:H2'	26:1H:2766:G:N3	2.31	0.46
29:11:17:THR:O	29:11:211:ARG:NH1	2.43	0.46
34:61:7:GLU:O	34:61:9:LEU:HD22	2.16	0.46
37:78:19:VAL:CB	37:78:27:HIS:HB3	2.46	0.46
37:78:52:GLU:HB2	37:78:55:ARG:HG3	1.96	0.46
39:98:34:ILE:HG22	39:98:114:VAL:HB	1.97	0.46
39:98:97:VAL:HG22	39:98:114:VAL:HG22	1.97	0.46
47:H8:20:ARG:HH11	47:H8:20:ARG:HG3	1.80	0.46
47:H8:76:LEU:H	47:H8:76:LEU:HD22	1.80	0.46
47:H8:95:PRO:HB3	47:H8:127:LYS:NZ	2.30	0.46
47:H8:165:VAL:HB	47:H8:167:PRO:CD	2.38	0.46
55:Q8:23:VAL:C	55:Q8:44:LYS:HB2	2.41	0.46
1:1G:325:A:H2'	1:1G:326:G:O4'	2.15	0.46
1:1G:994:A:C2	14:5A:5:ALA:HB2	2.50	0.46
1:1G:1078:U:H5"	1:1G:1079:G:OP2	2.15	0.46
1:1G:1118:C:H1'	1:1G:1179:A:C4	2.51	0.46
1:1G:1280:A:H5'	1:1G:1281:U:OP2	2.15	0.46
1:1G:1343:G:H2'	1:1G:1344:C:C6	2.51	0.46
4:32:122:ARG:HH21	4:32:134:ASP:HB2	1.81	0.46
4:32:129:ASN:OD1	4:32:145:GLU:N	2.45	0.46
9:82:26:VAL:HG22	9:82:61:ALA:N	2.31	0.46
17:8A:26:GLN:HG2	17:8A:37:LYS:HE3	1.96	0.46
18:9A:76:LEU:HA	18:9A:76:LEU:HD23	1.64	0.46
26:14:259:G:N2	26:14:621:A:H8	2.01	0.46
26:14:787:U:H5"	26:14:788:A:H5'	1.96	0.46
26:14:868:U:H2'	26:14:869:G:H8	1.81	0.46
26:14:1149:G:H2'	26:14:1150:C:H6	1.81	0.46
26:14:1803:A:C8	26:14:1804:C:C5	3.03	0.46
26:14:1933:G:N2	26:14:1968:G:H1'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2111:C:N1	26:14:2118:U:H4'	2.31	0.46
26:14:2469:A:H2	26:14:2481:G:N2	2.10	0.46
26:14:2552:U:C2	26:14:2554:U:H5'	2.50	0.46
26:14:2694:G:H2'	26:14:2695:C:H6	1.79	0.46
27:1J:15:A:H3'	27:1J:16:G:H5'	1.96	0.46
31:39:29:ASN:HA	31:39:30:PRO:HD3	1.55	0.46
31:39:33:LEU:O	31:39:37:VAL:HG23	2.16	0.46
32:49:23:PHE:HD2	32:49:25:TYR:CE2	2.34	0.46
33:59:53:GLU:HA	33:59:65:HIS:HE2	1.80	0.46
42:85:88:ILE:C	42:85:90:VAL:H	2.24	0.46
43:95:55:ALA:HB1	43:95:101:GLY:HA2	1.98	0.46
45:B5:35:THR:HG23	45:B5:38:GLU:HB3	1.98	0.46
52:I5:11:PRO:HA	52:I5:25:TYR:HA	1.97	0.46
52:I5:60:GLN:O	52:I5:61:ARG:NH2	2.49	0.46
54:L5:34:ARG:HG2	54:L5:39:ARG:HG3	1.97	0.46
55:M5:6:THR:HG22	55:M5:59:LYS:O	2.16	0.46
1:13:522:C:N4	1:13:527:G:H1	2.14	0.46
1:13:669:U:C2	1:13:670:G:C8	3.03	0.46
1:13:848:C:H2'	1:13:849:C:O4'	2.16	0.46
1:13:1015:A:H2'	1:13:1016:A:O4'	2.16	0.46
1:13:1211:U:H4'	1:13:1212:U:C5'	2.45	0.46
1:13:1454:G:H5"	20:BI:36:LEU:HD22	1.98	0.46
3:2E:40:ARG:HH11	3:2E:40:ARG:HG3	1.81	0.46
6:5E:89:MET:HG3	18:9I:76:LEU:HD21	1.97	0.46
9:8E:18:PHE:HD2	9:8E:62:TYR:HD2	1.63	0.46
9:8E:33:PHE:CE1	9:8E:37:PHE:HD2	2.34	0.46
19:AI:6:LYS:HE2	19:AI:6:LYS:HB3	1.54	0.46
26:1H:270:A:OP2	26:1H:270(Y):G:N2	2.41	0.46
26:1H:284:U:H2'	26:1H:285:C:H6	1.81	0.46
26:1H:1063:G:N2	26:1H:1076:C:O2'	2.28	0.46
26:1H:1170:G:N2	26:1H:1180:C:C2	2.84	0.46
26:1H:1613:G:C2	26:1H:1617:C:C2	3.03	0.46
26:1H:2093:G:C6	26:1H:2225:A:C8	3.04	0.46
26:1H:2117:A:H2'	26:1H:2118:U:C5	2.51	0.46
26:1H:2139:C:H3'	26:1H:2140:C:H6	1.81	0.46
26:1H:2171:A:O2'	26:1H:2172:U:O4'	2.34	0.46
26:1H:2194:G:H2'	26:1H:2195:C:C6	2.51	0.46
26:1H:2199:A:H3'	26:1H:2205:C:H6	1.81	0.46
26:1H:2292:C:P	40:A8:17:ARG:HH21	2.39	0.46
26:1H:2682:U:H5'	26:1H:2682:U:H6	1.79	0.46
28:71:52:ARG:HD2	28:71:52:ARG:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:11:106:ILE:O	29:11:108:PRO:HD3	2.17	0.46
31:31:172:TRP:CD1	31:31:172:TRP:H	2.32	0.46
32:41:109:VAL:O	32:41:113:ARG:HG3	2.16	0.46
37:78:45:LEU:HD12	37:78:45:LEU:HA	1.75	0.46
38:88:103:MET:H	38:88:103:MET:HG2	1.45	0.46
45:F8:15:GLU:HG3	45:F8:16:LYS:N	2.31	0.46
47:H8:92:SER:O	47:H8:130:PRO:HG2	2.15	0.46
55:Q8:7:HIS:O	55:Q8:8:LYS:C	2.59	0.46
1:1G:129(A):G:C6	1:1G:191(A):G:H1'	2.51	0.46
1:1G:559:A:C8	1:1G:561:U:C5	3.04	0.46
1:1G:730:G:C5	1:1G:731:G:H1'	2.51	0.46
1:1G:821:G:C5	1:1G:822:C:C5	3.03	0.46
1:1G:1299:A:C2	1:1G:1301:U:C4	3.04	0.46
1:1G:1314:C:H41	19:AA:7:LYS:NZ	2.14	0.46
1:1G:1442:G:C5	1:1G:1446:A:C6	3.04	0.46
2:12:220:ASP:O	2:12:223:ILE:N	2.49	0.46
5:42:34:VAL:HG11	5:42:63:ARG:HG2	1.97	0.46
20:BA:49:ALA:HA	20:BA:52:ALA:CB	2.45	0.46
56:2L:20:G:C2	56:2L:58:A:C2	3.04	0.46
26:14:71:A:H4'	26:14:72:U:H5"	1.98	0.46
26:14:271(A):C:O2'	26:14:271(B):G:H5'	2.16	0.46
26:14:276:A:H2'	26:14:277:C:C4	2.51	0.46
26:14:445:C:OP1	42:85:2:PRO:HA	2.16	0.46
26:14:483:A:H3'	26:14:484:C:H6	1.80	0.46
26:14:1168:G:C2	26:14:1182:A:N3	2.84	0.46
26:14:1324:G:C2	26:14:1328:G:C6	3.04	0.46
26:14:1379:A:H1'	26:14:1380:G:OP1	2.16	0.46
26:14:1814:G:H3'	26:14:1815:A:H2'	1.98	0.46
26:14:1910:G:C2'	26:14:1911:U:H5'	2.46	0.46
26:14:2472:G:H1	26:14:2477:C:P	2.39	0.46
29:19:166:GLN:HB3	29:19:174:ILE:HG22	1.98	0.46
31:39:81:PRO:HB3	31:39:87:GLY:O	2.16	0.46
33:59:76:VAL:O	33:59:80:SER:OG	2.26	0.46
46:C5:60:PHE:HD1	46:C5:60:PHE:H	1.64	0.46
47:D5:29:TYR:OH	47:D5:87:ASP:HB3	2.16	0.46
47:D5:98:MET:HE2	47:D5:98:MET:HB2	1.68	0.46
1:13:73:G:H2'	1:13:74:C:C6	2.51	0.45
1:13:792:A:O2'	1:13:794:A:N6	2.46	0.45
1:13:971:G:N2	1:13:1363:A:OP2	2.36	0.45
1:13:978:A:H61	1:13:1316:G:H1'	1.81	0.45
1:13:1135:U:H2'	1:13:1137:C:N3	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1385:G:H2'	1:13:1386:G:H8	1.80	0.45
1:13:1392:G:H21	1:13:1502:A:H8	1.63	0.45
1:13:1442:G:C8	1:13:1442:G:H3'	2.52	0.45
1:13:1490:C:O2'	1:13:1491:G:H5'	2.15	0.45
2:1E:134:GLU:O	2:1E:138:LEU:HD12	2.16	0.45
2:1E:156:LYS:HD3	2:1E:156:LYS:HA	1.68	0.45
2:1E:187:LEU:HA	2:1E:201:ILE:HB	1.97	0.45
12:3I:8:ASN:O	12:3I:12:ARG:HG3	2.17	0.45
12:3I:83:VAL:HG22	12:3I:84:LEU:N	2.31	0.45
14:5I:53:LEU:HB3	14:5I:56:VAL:CG2	2.46	0.45
15:6I:70:LEU:HG	15:6I:78:TYR:HB2	1.98	0.45
26:1H:270(G):C:H2'	26:1H:270(H):C:H6	1.81	0.45
26:1H:859:G:O2'	26:1H:916:G:O6	2.33	0.45
26:1H:1100:C:H2'	26:1H:1101:U:C6	2.51	0.45
26:1H:1358:G:N2	26:1H:1372:U:C5	2.84	0.45
26:1H:2176:A:H4'	28:71:222:VAL:HG23	1.98	0.45
26:1H:2467:C:N4	26:1H:2468:G:C6	2.84	0.45
26:1H:2843:G:H1	26:1H:2874:C:H42	1.63	0.45
28:71:163:PHE:CD2	28:71:192:PHE:HE1	2.35	0.45
30:21:116:VAL:H	30:21:157:ALA:HB2	1.81	0.45
31:31:129:PHE:O	31:31:130:ALA:HB3	2.16	0.45
37:78:139:LYS:HB2	37:78:139:LYS:HE3	1.63	0.45
39:98:14:SER:HA	39:98:17:ARG:NH1	2.31	0.45
41:B8:19:LEU:HA	41:B8:20:PRO:HD3	1.64	0.45
43:D8:35:LEU:HA	43:D8:36:PRO:HD3	1.72	0.45
1:1G:37:U:O2'	1:1G:500:G:H4'	2.16	0.45
1:1G:114:U:O2'	1:1G:115:G:H5'	2.16	0.45
1:1G:831:U:H2'	1:1G:832:C:C6	2.51	0.45
1:1G:1129:C:N4	1:1G:1139:G:N2	2.64	0.45
1:1G:1202:G:N2	14:5A:46:GLU:OE1	2.48	0.45
1:1G:1277:C:O2'	1:1G:1279:A:H8	1.99	0.45
2:12:105:PHE:CE1	2:12:109:SER:HB2	2.51	0.45
4:32:3:ARG:HB2	4:32:4:TYR:H	1.46	0.45
4:32:25:ARG:NH1	4:32:31:CYS:HA	2.27	0.45
12:3A:47:LYS:CG	12:3A:48:PRO:HD2	2.44	0.45
14:5A:9:LYS:HA	14:5A:12:ARG:HD2	1.99	0.45
18:9A:22:VAL:C	18:9A:24:ALA:H	2.24	0.45
19:AA:50:ALA:HB1	19:AA:57:HIS:C	2.41	0.45
56:2L:76:C:H2'	56:2L:77:A:C8	2.52	0.45
26:14:61:G:H5'	50:G5:50:ILE:HG13	1.97	0.45
26:14:138:G:H5"	26:14:139:G:OP2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:138:G:N2	45:B5:44:GLU:OE2	2.27	0.45
26:14:146:G:H2'	26:14:147:U:O4'	2.16	0.45
26:14:571:A:H5'	26:14:2030:A:N7	2.31	0.45
26:14:607:U:OP1	31:39:102:PRO:HA	2.16	0.45
26:14:959:A:C6	26:14:960:A:C6	3.05	0.45
26:14:1025:G:O2'	26:14:1026:U:OP1	2.31	0.45
26:14:1042:G:H2'	26:14:1043:C:C6	2.51	0.45
26:14:2113:U:N3	26:14:2114:A:O2'	2.48	0.45
26:14:2506:U:O5'	26:14:2506:U:H6	2.00	0.45
29:19:73:VAL:HG13	29:19:120:GLY:HA3	1.98	0.45
29:19:77:ALA:O	29:19:116:GLN:HA	2.17	0.45
31:39:181:LEU:HD23	31:39:181:LEU:HA	1.77	0.45
38:45:32:TYR:HD1	38:45:32:TYR:H	1.64	0.45
46:C5:43:ASN:HA	46:C5:63:LYS:O	2.15	0.45
55:M5:40:GLU:CA	55:M5:43:GLN:HB2	2.45	0.45
1:13:22:G:C6	1:13:23:C:C4	3.04	0.45
1:13:246:A:C2	1:13:282:A:C5	3.04	0.45
1:13:607:A:C2	16:7I:31:LYS:HG3	2.50	0.45
1:13:639:G:H2'	1:13:640:A:H8	1.81	0.45
1:13:657:G:O4'	15:6I:28:GLN:NE2	2.47	0.45
1:13:1007:C:H2'	1:13:1008:C:O4'	2.16	0.45
1:13:1415:G:C6	1:13:1486:G:C6	3.05	0.45
1:13:1429:C:H2'	1:13:1430:C:H6	1.81	0.45
1:13:1489:G:C6	1:13:1490:C:C4	3.05	0.45
2:1E:196:LEU:HD13	2:1E:197:VAL:HG22	1.98	0.45
4:3E:107:ARG:NH2	4:3E:194:LEU:HD22	2.31	0.45
7:6E:51:GLN:HG2	7:6E:58:PRO:HG3	1.98	0.45
11:2I:52:GLY:H	11:2I:55:LYS:HE3	1.81	0.45
16:7I:22:THR:HA	16:7I:33:ILE:HG13	1.97	0.45
24:3K:7:A:C5	24:3K:49:C:C2	3.04	0.45
26:1H:286:C:H2'	26:1H:287:C:H6	1.81	0.45
26:1H:1635:G:H2'	26:1H:1636:C:C6	2.51	0.45
26:1H:2556:C:H2'	26:1H:2557:G:O4'	2.15	0.45
26:1H:2656:U:H5	26:1H:2664:G:N2	2.13	0.45
26:1H:2853:C:H2'	26:1H:2854:G:C8	2.51	0.45
26:1H:2885:C:C2	26:1H:2886:G:H1'	2.50	0.45
27:16:73:A:C4	27:16:104:A:C2	3.04	0.45
28:71:227:HIS:CD2	28:71:227:HIS:H	2.34	0.45
31:31:68:LYS:HB3	31:31:69:HIS:CD2	2.51	0.45
33:51:41:MET:HB2	33:51:41:MET:HE3	1.50	0.45
35:58:39:ARG:HH12	35:58:48:MET:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:98:37:THR:OG1	39:98:40:LYS:HB2	2.16	0.45
41:B8:110:ILE:O	41:B8:114:LEU:HB2	2.15	0.45
48:I8:49:LYS:HE2	48:I8:80:HIS:CD2	2.51	0.45
54:P8:10:ARG:O	54:P8:14:LYS:HB2	2.16	0.45
1:1G:309:G:H1'	1:1G:608:A:C2	2.52	0.45
1:1G:942:G:H21	9:82:124:GLN:HE22	1.63	0.45
1:1G:1199:U:H4'	10:1A:54:PHE:CD2	2.51	0.45
1:1G:1305:G:N2	1:1G:1331:G:N3	2.64	0.45
1:1G:1418:A:H2	26:14:1948:G:N3	2.14	0.45
4:32:118:ARG:O	4:32:121:VAL:HB	2.16	0.45
5:42:102:ALA:HB3	5:42:107:ARG:HB2	1.97	0.45
10:1A:25:GLU:O	10:1A:29:ARG:HB2	2.16	0.45
12:3A:123:LYS:H	12:3A:123:LYS:HG2	1.60	0.45
13:4A:13:LYS:HE2	13:4A:17:VAL:HG21	1.98	0.45
26:14:563:G:C4	26:14:564:C:C5	3.04	0.45
26:14:1219:G:N2	26:14:1230:C:N3	2.47	0.45
26:14:1542:G:O5'	26:14:1543:A:H5"	2.17	0.45
26:14:1669:A:H5"	26:14:1670:C:OP2	2.16	0.45
26:14:1687:G:H8	26:14:1687:G:O5'	1.99	0.45
26:14:1732:A:N6	26:14:1733:G:C2	2.84	0.45
26:14:1777:U:O2'	26:14:1778:U:H5'	2.15	0.45
26:14:1788:C:C2	26:14:1789:A:C8	3.04	0.45
26:14:2432:A:C8	49:F5:33:LYS:HD2	2.50	0.45
26:14:2542:A:N3	26:14:2542:A:H5"	2.30	0.45
27:1J:2:C:H2'	27:1J:3:C:C5	2.51	0.45
29:19:65:ILE:HD11	29:19:67:PHE:CZ	2.50	0.45
29:19:235:GLY:C	29:19:237:GLU:HG2	2.42	0.45
30:29:81:ILE:HG22	30:29:82:ARG:N	2.27	0.45
32:49:118:ARG:HD2	32:49:118:ARG:N	2.30	0.45
34:69:8:PRO:N	34:69:15:VAL:HG22	2.31	0.45
35:15:36:GLY:N	35:15:42:TRP:HZ3	2.14	0.45
39:55:71:GLN:HG3	39:55:71:GLN:O	2.16	0.45
41:75:4:GLY:O	41:75:7:ILE:HG22	2.16	0.45
41:75:105:LEU:HG	41:75:107:ASP:OD1	2.16	0.45
41:75:123:GLN:O	41:75:127:ALA:N	2.45	0.45
43:95:37:VAL:HG21	43:95:57:VAL:HG13	1.98	0.45
46:C5:23:ARG:HH11	46:C5:23:ARG:HB2	1.80	0.45
47:D5:82:ARG:HA	47:D5:83:PRO:HD3	1.76	0.45
49:F5:45:ASN:O	49:F5:63:ALA:HA	2.16	0.45
1:13:359:U:H2'	1:13:360:A:C8	2.51	0.45
1:13:599:C:H4'	8:7E:130:GLY:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:652:U:O4	1:13:752:G:O2'	2.16	0.45
1:13:825:G:C6	1:13:826:C:C4	3.05	0.45
1:13:1007:C:N3	1:13:1022:G:N2	2.56	0.45
1:13:1333:A:C2	1:13:1334:G:H1'	2.51	0.45
2:1E:237:ALA:O	2:1E:239:VAL:N	2.49	0.45
3:2E:15:THR:HG22	3:2E:16:ARG:N	2.31	0.45
4:3E:90:GLY:O	4:3E:93:PHE:HB2	2.16	0.45
4:3E:114:ARG:O	4:3E:118:ARG:N	2.45	0.45
7:6E:95:ARG:NH2	7:6E:99:LEU:HD21	2.32	0.45
8:7E:81:HIS:HB3	8:7E:138:TRP:CZ3	2.51	0.45
11:2I:33:THR:HB	11:2I:37:GLY:C	2.41	0.45
15:6I:4:THR:OG1	15:6I:7:GLU:OE2	2.34	0.45
15:6I:24:SER:O	15:6I:28:GLN:HG3	2.17	0.45
26:1H:51:G:N3	26:1H:119:A:C2	2.84	0.45
26:1H:142:G:H2'	26:1H:143:C:C6	2.51	0.45
26:1H:733:G:OP2	59:1H:4008:HOH:O	2.21	0.45
26:1H:1052:C:H2'	26:1H:1053:C:C6	2.51	0.45
26:1H:1091:G:H2'	26:1H:1092:C:C6	2.52	0.45
26:1H:2123:G:H2'	26:1H:2124:G:C8	2.52	0.45
26:1H:2159:G:H2'	26:1H:2160:G:O4'	2.16	0.45
26:1H:2210:G:H4'	26:1H:2211:G:OP2	2.15	0.45
26:1H:2248:C:H2'	26:1H:2249:U:O4'	2.16	0.45
26:1H:2309:A:C6	26:1H:2310:A:N7	2.84	0.45
28:71:213:TYR:HA	28:71:222:VAL:O	2.16	0.45
30:21:101:ARG:NH1	30:21:171:GLU:HB2	2.31	0.45
33:51:74:ASN:HA	33:51:77:LYS:HD3	1.98	0.45
36:68:88:ASN:HD21	36:68:92:GLU:H	1.64	0.45
39:98:28:LEU:O	39:98:32:GLY:N	2.37	0.45
40:A8:56:LEU:HB3	40:A8:58:LEU:HD21	1.99	0.45
42:C8:47:TYR:HE2	43:D8:74:LYS:HE3	1.81	0.45
47:H8:45:ASP:O	47:H8:49:ARG:HG3	2.17	0.45
47:H8:136:PHE:O	47:H8:137:ILE:HG13	2.17	0.45
48:I8:72:ARG:O	48:I8:75:LEU:HB2	2.17	0.45
49:J8:91:LYS:O	49:J8:93:GLU:N	2.48	0.45
1:1G:803:G:C6	1:1G:804:U:C4	3.04	0.45
1:1G:819:A:N7	1:1G:1529:G:C6	2.85	0.45
1:1G:949:A:N3	1:1G:971:G:O6	2.50	0.45
1:1G:1028:C:N3	1:1G:1034:G:N2	2.63	0.45
3:22:18:TRP:H	3:22:18:TRP:HE3	1.63	0.45
4:32:191:ARG:NH2	4:32:194:LEU:O	2.45	0.45
5:42:69:VAL:O	5:42:71:LEU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:82:16:ARG:NH2	9:82:66:ARG:HH22	2.13	0.45
26:14:30:G:H2'	26:14:31:C:C6	2.52	0.45
26:14:638:G:C5	26:14:651:G:C2	3.05	0.45
26:14:686:G:C8	54:L5:7:PRO:HA	2.51	0.45
26:14:1204:A:C2	26:14:1241:A:N1	2.82	0.45
26:14:2646:C:OP2	26:14:2732:G:O2'	2.25	0.45
27:1J:24:G:C5	27:1J:56:G:C2	3.04	0.45
30:29:51:PHE:O	30:29:74:PRO:HB2	2.16	0.45
30:29:203:LYS:O	30:29:203:LYS:HG3	2.17	0.45
31:39:52:LYS:HA	31:39:56:GLU:OE1	2.16	0.45
31:39:107:LYS:HA	31:39:107:LYS:HD3	1.53	0.45
32:49:56:ALA:HB2	32:49:153:ARG:NE	2.31	0.45
33:59:92:ILE:HG22	33:59:93:GLY:N	2.31	0.45
34:69:41:GLU:O	34:69:45:LYS:HG2	2.17	0.45
38:45:27:VAL:HG12	47:D5:81:ARG:NH2	2.31	0.45
41:75:4:GLY:N	41:75:7:ILE:HG22	2.31	0.45
43:95:100:ARG:H	43:95:100:ARG:HG2	1.63	0.45
47:D5:27:VAL:HG12	47:D5:87:ASP:HA	1.98	0.45
50:G5:47:ASN:C	50:G5:49:LYS:H	2.22	0.45
50:G5:52:ASP:O	50:G5:56:GLN:HG3	2.16	0.45
1:13:68:G:H22	1:13:101:A:H2	1.64	0.45
1:13:276:G:C6	1:13:277:C:C4	3.05	0.45
1:13:447:G:N1	1:13:485:G:H1'	2.32	0.45
1:13:867:G:O2'	1:13:873:A:N6	2.49	0.45
1:13:1059:C:O2'	10:1I:53:PRO:HD3	2.16	0.45
1:13:1264:C:H1'	1:13:1272:G:N2	2.30	0.45
1:13:1504:G:OP1	1:13:1507:A:H4'	2.16	0.45
2:1E:27:LYS:HB2	2:1E:194:PRO:HD2	1.97	0.45
2:1E:36:ARG:C	2:1E:38:GLY:H	2.24	0.45
9:8E:21:PRO:HA	9:8E:59:PHE:HA	1.99	0.45
13:4I:70:LEU:O	13:4I:73:GLU:HB3	2.17	0.45
19:AI:65:ASN:C	19:AI:67:VAL:H	2.25	0.45
26:1H:336:C:OP1	46:G8:83:THR:HG23	2.17	0.45
26:1H:340:A:H2'	26:1H:341:G:O4'	2.16	0.45
26:1H:389:G:H1	37:78:71:VAL:HB	1.80	0.45
26:1H:661:C:HO2'	37:78:14:LYS:H	1.63	0.45
26:1H:817:C:H5	59:1H:3817:HOH:O	1.99	0.45
26:1H:870:A:H5'	38:88:6:ARG:HB3	1.98	0.45
26:1H:2099:U:H2'	26:1H:2100:G:H8	1.80	0.45
26:1H:2355:C:H5"	26:1H:2356:C:OP2	2.16	0.45
26:1H:2771:C:H2'	26:1H:2772:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:11:11:PRO:C	29:11:13:ARG:H	2.24	0.45
32:41:4:ASP:OD1	32:41:9:ARG:NH1	2.49	0.45
33:51:83:TYR:CD2	33:51:134:SER:HA	2.52	0.45
33:51:85:LYS:HD3	33:51:85:LYS:HA	1.70	0.45
33:51:124:GLU:C	33:51:126:PRO:HD3	2.41	0.45
34:61:81:VAL:HG11	34:61:88:ILE:HD13	1.97	0.45
35:58:7:LYS:HB3	35:58:7:LYS:HE3	1.80	0.45
35:58:46:VAL:O	35:58:47:ALA:HB3	2.15	0.45
38:88:32:TYR:O	38:88:105:GLU:HA	2.17	0.45
1:1G:148:G:H8	1:1G:148:G:O5'	2.00	0.45
1:1G:451:A:N6	1:1G:480:U:H2'	2.30	0.45
1:1G:538:G:OP2	12:3A:115:LYS:HB2	2.16	0.45
1:1G:689:C:H2'	1:1G:690:G:H5'	1.98	0.45
1:1G:894:G:C6	1:1G:895:G:C5	3.05	0.45
1:1G:941:G:C6	1:1G:1343:G:C6	3.05	0.45
1:1G:1229:A:H2'	1:1G:1230:C:C6	2.52	0.45
2:12:36:ARG:NH1	2:12:37:ASN:OD1	2.50	0.45
3:22:76:VAL:HA	3:22:83:ARG:HH21	1.82	0.45
5:42:43:LEU:HG	5:42:44:GLY:N	2.28	0.45
7:62:56:GLN:HB3	7:62:61:VAL:HG23	1.98	0.45
26:14:208:C:H2'	26:14:209:C:C6	2.50	0.45
26:14:260:G:C2	26:14:261:G:H1'	2.51	0.45
26:14:270(J):G:H21	26:14:270(K):C:H1'	1.82	0.45
26:14:451:C:H5'	59:14:3639:HOH:O	2.16	0.45
26:14:661:C:H2'	26:14:662:G:C8	2.51	0.45
26:14:1138:G:N3	26:14:1139:G:H1'	2.31	0.45
26:14:1221:C:N3	26:14:1229(A):G:N1	2.52	0.45
26:14:1338:G:N3	26:14:1393:A:H2	2.14	0.45
26:14:1399:C:H2'	26:14:1400:G:C8	2.51	0.45
26:14:1899:G:H21	26:14:1902:C:H42	1.64	0.45
26:14:2394:C:H5"	37:35:63:PRO:HG3	1.98	0.45
26:14:2853:C:H2'	26:14:2854:G:H8	1.80	0.45
32:49:32:PRO:CB	32:49:172:LEU:HD22	2.47	0.45
32:49:68:PRO:HB2	32:49:90:LEU:HD11	1.98	0.45
33:59:81:GLU:HG3	33:59:83:TYR:HB3	1.99	0.45
44:A5:14:PRO:HA	44:A5:17:VAL:HG12	1.98	0.45
52:I5:58:ARG:HD2	52:I5:58:ARG:HA	1.74	0.45
1:13:122:G:H8	1:13:122:G:O5'	2.00	0.45
1:13:199:G:O6	1:13:218:C:N4	2.50	0.45
1:13:377:G:OP1	16:7I:3:LYS:HD2	2.17	0.45
1:13:621:A:H2'	1:13:622:A:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:711:G:C2	1:13:712:A:C5	3.05	0.45
1:13:872:A:C4	1:13:874:G:N7	2.85	0.45
1:13:1027:C:H1'	1:13:1028:C:C5	2.51	0.45
1:13:1171:G:O2'	1:13:1172:C:H5'	2.15	0.45
1:13:1182:G:H4'	1:13:1183:A:H5"	1.97	0.45
1:13:1256:A:C2	1:13:1277:C:C5	3.05	0.45
1:13:1497:G:C2'	1:13:1498:U:H5'	2.46	0.45
4:3E:86:LYS:H	4:3E:86:LYS:HD2	1.81	0.45
17:8I:27:PHE:CE2	17:8I:36:ILE:HD11	2.52	0.45
24:3K:9:A:H5"	24:3K:11:C:OP2	2.16	0.45
26:1H:34:C:C6	26:1H:34:C:OP2	2.69	0.45
26:1H:604:G:C5	26:1H:625:G:N2	2.85	0.45
26:1H:935:C:H2'	26:1H:936:C:C6	2.51	0.45
26:1H:1288:U:C2	26:1H:1327:C:O2	2.70	0.45
26:1H:1705:G:O2'	26:1H:1706:U:H5'	2.16	0.45
26:1H:2057:A:H2'	26:1H:2058:A:C8	2.52	0.45
26:1H:2636:U:P	30:21:79:ARG:HA	2.56	0.45
26:1H:2689:U:H5"	26:1H:2713:A:H2	1.80	0.45
29:11:46:GLN:O	29:11:48:ARG:N	2.49	0.45
32:41:18:GLU:O	32:41:22:ARG:HB2	2.16	0.45
32:41:37:VAL:HG23	32:41:99:MET:CE	2.47	0.45
32:41:97:ASP:O	32:41:98:ARG:C	2.59	0.45
33:51:26:VAL:HG21	33:51:75:ALA:CB	2.46	0.45
39:98:44:LEU:O	39:98:45:ARG:C	2.60	0.45
40:A8:38:GLN:HB2	40:A8:47:THR:CG2	2.46	0.45
44:E8:75:TYR:CE1	44:E8:104:THR:HB	2.52	0.45
54:P8:22:MET:HE3	54:P8:22:MET:HB3	1.67	0.45
1:1G:660:G:H2'	1:1G:661:G:O4'	2.16	0.45
1:1G:862:C:H2'	1:1G:863:U:C6	2.47	0.45
1:1G:1028(A):C:H42	1:1G:1032(B):G:N2	2.14	0.45
1:1G:1286:A:C8	1:1G:1286:A:H3'	2.51	0.45
4:32:203:VAL:O	4:32:206:PHE:HB3	2.15	0.45
10:1A:78:ASN:O	10:1A:81:THR:OG1	2.24	0.45
15:6A:53:HIS:ND1	15:6A:53:HIS:O	2.50	0.45
16:7A:4:ILE:HB	16:7A:66:PRO:HA	1.98	0.45
21:1B:2:GLY:O	21:1B:4:GLY:N	2.48	0.45
24:3L:25:C:N3	24:3L:26:A:C8	2.85	0.45
26:14:871:U:H4'	38:45:69:PHE:CD2	2.52	0.45
26:14:1654:A:C1'	26:14:2823:A:H5'	2.47	0.45
26:14:1757:U:N3	26:14:1762:A:C2	2.72	0.45
26:14:1779:U:C6	26:14:1783:A:N7	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1790:C:H5”	26:14:1791:A:OP1	2.17	0.45
26:14:2019:A:C6	26:14:2020:A:C5	3.04	0.45
26:14:2283:C:O2	26:14:2389:G:N2	2.50	0.45
26:14:2320:A:N1	26:14:2333:A:C8	2.84	0.45
26:14:2495:G:O3’	38:45:81:VAL:HG12	2.16	0.45
26:14:2567:G:H2’	26:14:2568:C:H6	1.82	0.45
26:14:2591:C:OP1	29:19:239:ARG:HD2	2.16	0.45
30:29:5:LEU:HD22	30:29:5:LEU:H	1.81	0.45
31:39:11:VAL:HG23	31:39:12:LEU:H	1.82	0.45
32:49:33:ARG:NH2	32:49:162:THR:HG21	2.31	0.45
35:15:36:GLY:O	35:15:38:HIS:N	2.50	0.45
38:45:27:VAL:HG12	47:D5:81:ARG:CZ	2.47	0.45
38:45:27:VAL:HG11	38:45:137:TYR:HB2	1.99	0.45
46:C5:76:CYS:SG	46:C5:97:ARG:HG3	2.56	0.45
47:D5:102:LEU:HD11	47:D5:123:ASP:N	2.31	0.45
48:E5:82:ARG:HD3	48:E5:82:ARG:HA	1.69	0.45
49:F5:80:LEU:HD23	49:F5:82:LEU:HG	1.98	0.45
50:G5:4:SER:OG	50:G5:5:GLU:N	2.44	0.45
53:J5:31:VAL:HG22	53:J5:42:PRO:HG3	1.97	0.45
53:J5:40:LYS:HE2	53:J5:44:THR:O	2.16	0.45
1:13:22:G:C2	1:13:23:C:C2	3.03	0.45
1:13:557:G:H2’	1:13:558:G:C8	2.51	0.45
1:13:1478:C:H2’	1:13:1479:C:C6	2.52	0.45
10:1I:27:ALA:O	10:1I:31:GLY:N	2.49	0.45
10:1I:43:ARG:HE	10:1I:43:ARG:HB3	1.39	0.45
17:8I:67:LYS:O	17:8I:68:ARG:HB3	2.16	0.45
26:1H:890:A:H2’	26:1H:892:G:H5’	1.97	0.45
26:1H:931:G:C5	26:1H:933:A:N7	2.84	0.45
26:1H:1331:A:O2’	26:1H:1332:G:H8	1.99	0.45
26:1H:1545(A):A:N7	26:1H:1546:C:C2	2.85	0.45
26:1H:1707:G:H2’	26:1H:1708:C:O4’	2.17	0.45
26:1H:2045:C:H2’	26:1H:2046:G:O4’	2.16	0.45
26:1H:2262:U:H2’	26:1H:2263:C:H6	1.81	0.45
26:1H:2617:C:H2’	26:1H:2618:G:O4’	2.16	0.45
26:1H:2849:U:P	41:B8:95:ARG:HH12	2.38	0.45
28:71:8:ARG:O	28:71:12:GLU:HB2	2.16	0.45
28:71:9:ALA:O	28:71:13:LYS:N	2.49	0.45
29:11:121:PRO:HB3	29:11:135:PHE:CE2	2.51	0.45
30:21:52:LEU:HA	30:21:53:PRO:HD3	1.83	0.45
31:31:192:LEU:HD23	31:31:193:VAL:N	2.32	0.45
35:58:35:ARG:O	35:58:42:TRP:HZ3	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:68:35:VAL:HA	36:68:62:VAL:HG12	1.97	0.45
39:98:48:VAL:O	39:98:49:ASP:C	2.59	0.45
40:A8:67:ARG:NH1	40:A8:67:ARG:HB2	2.31	0.45
41:B8:87:ASP:OD1	41:B8:87:ASP:N	2.47	0.45
41:B8:132:LYS:HE2	41:B8:132:LYS:HB3	1.81	0.45
43:D8:39:LEU:O	43:D8:40:LEU:HD23	2.16	0.45
45:F8:39:ILE:HD13	45:F8:79:ALA:HB2	1.98	0.45
50:K8:57:ILE:O	50:K8:61:LEU:HD12	2.17	0.45
1:1G:261:U:OP2	20:BA:79:ARG:NH2	2.49	0.45
1:1G:1099:G:OP1	2:12:148:TYR:OH	2.32	0.45
1:1G:1127:G:H1'	1:1G:1148:U:C2	2.52	0.45
1:1G:1129:C:OP2	9:82:62:TYR:OH	2.33	0.45
1:1G:1423:G:H2'	1:1G:1424:C:C6	2.52	0.45
2:12:187:LEU:HD11	2:12:203:GLY:HA3	1.99	0.45
5:42:96:PRO:HA	5:42:117:ASP:OD2	2.16	0.45
19:AA:24:ALA:C	19:AA:25:LYS:HZ2	2.24	0.45
26:14:276:A:H2'	26:14:277:C:C5	2.52	0.45
26:14:638:G:C6	26:14:639:U:C4	3.04	0.45
26:14:993:G:C5	26:14:994:C:C5	3.05	0.45
26:14:1011:G:C6	26:14:1013:C:C4	3.05	0.45
26:14:1234:U:H2'	26:14:1235:G:O4'	2.17	0.45
26:14:2134:A:C4	26:14:2158:A:C8	3.05	0.45
26:14:2157:G:O2'	26:14:2158:A:C8	2.65	0.45
26:14:2780:G:OP1	35:15:118:LYS:HE2	2.16	0.45
26:14:2787:C:O2'	30:29:61:ARG:HD3	2.16	0.45
27:1J:3:C:H42	27:1J:117:G:H22	1.64	0.45
27:1J:24:G:C8	27:1J:56:G:C4	3.05	0.45
27:1J:87:G:H8	27:1J:87:G:O5'	1.99	0.45
30:29:60:ASN:C	30:29:62:PRO:HD3	2.41	0.45
32:49:15:VAL:HG13	32:49:175:LEU:HB2	1.99	0.45
39:55:51:LEU:HD13	39:55:66:VAL:HG13	1.99	0.45
39:55:57:ARG:HE	39:55:62:ALA:HB2	1.81	0.45
41:75:123:GLN:H	41:75:123:GLN:HG3	1.55	0.45
45:B5:43:VAL:HG21	45:B5:81:VAL:HG11	1.99	0.45
47:D5:153:SER:HB3	47:D5:167:PRO:HB3	1.98	0.45
50:G5:56:GLN:O	50:G5:60:LEU:N	2.37	0.45
1:13:476:G:N2	1:13:477:G:H1'	2.32	0.45
1:13:575:G:C5	1:13:881:G:C2	3.05	0.45
1:13:983:A:H2	1:13:984:C:C6	2.34	0.45
1:13:1004:A:P	1:13:1025:U:H3	2.36	0.45
2:1E:231:GLU:HB2	2:1E:232:PRO:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2E:149:ALA:HA	3:2E:201:TYR:O	2.17	0.45
5:4E:147:ASP:HA	5:4E:150:ARG:NH1	2.30	0.45
9:8E:77:ILE:O	9:8E:81:ILE:HG12	2.16	0.45
13:4I:7:VAL:HB	32:41:115:ARG:HH22	1.82	0.45
14:5I:45:ARG:HG3	14:5I:49:HIS:CE1	2.51	0.45
14:5I:46:GLU:O	14:5I:50:LYS:HG3	2.17	0.45
15:6I:66:LEU:HD12	15:6I:66:LEU:HA	1.64	0.45
16:7I:69:THR:O	16:7I:69:THR:OG1	2.27	0.45
17:8I:92:ARG:HA	17:8I:92:ARG:HE	1.82	0.45
26:1H:173:G:H2'	26:1H:174:C:C6	2.52	0.45
26:1H:533:G:H5'	42:C8:24:TYR:CE1	2.52	0.45
26:1H:1221:C:H2'	26:1H:1222:C:C6	2.49	0.45
26:1H:1654:A:OP2	39:98:1:MET:N	2.49	0.45
26:1H:2160:G:C2	26:1H:2161:C:H1'	2.51	0.45
26:1H:2261:C:N3	26:1H:2280:G:C2	2.85	0.45
26:1H:2330:G:H2'	26:1H:2331:G:O4'	2.16	0.45
26:1H:2573:C:H3'	59:1H:4376:HOH:O	2.16	0.45
27:16:42:C:O3'	32:41:67:LYS:NZ	2.50	0.45
28:71:59:ARG:HG3	28:71:164:ARG:HB2	1.98	0.45
29:11:38:LYS:HD2	29:11:39:LYS:N	2.32	0.45
31:31:39:TRP:CZ3	31:31:106:ARG:HD2	2.51	0.45
33:51:126:PRO:O	33:51:127:GLU:HB2	2.16	0.45
37:78:90:ARG:HG2	37:78:91:PHE:CD1	2.51	0.45
41:B8:60:THR:HG22	41:B8:77:PRO:HA	1.99	0.45
47:H8:67:LEU:HA	47:H8:68:PRO:HD3	1.76	0.45
49:J8:18:ILE:CG1	49:J8:37:ILE:HG12	2.47	0.45
50:K8:5:GLU:N	50:K8:5:GLU:CD	2.75	0.45
1:1G:11:G:C5	1:1G:12:U:C5	3.05	0.45
1:1G:323:U:O3'	20:BA:22:ARG:HD3	2.16	0.45
1:1G:406:G:H1'	1:1G:495:A:N1	2.32	0.45
1:1G:484:G:C8	1:1G:486:U:C2	3.05	0.45
1:1G:558:G:O5'	1:1G:559:A:H3'	2.16	0.45
1:1G:616:G:N3	1:1G:617:G:C8	2.85	0.45
1:1G:664:G:H22	1:1G:741:G:H1	1.64	0.45
1:1G:779:C:O2'	1:1G:780:A:H5'	2.17	0.45
1:1G:994:A:N7	1:1G:1216:G:H4'	2.31	0.45
1:1G:1097:C:H1'	1:1G:1169:A:C2	2.51	0.45
1:1G:1291:G:H2'	1:1G:1292:U:C6	2.51	0.45
4:32:191:ARG:HA	4:32:194:LEU:HD23	1.98	0.45
7:62:73:MET:HE3	7:62:73:MET:HB2	1.76	0.45
8:72:109:ILE:HG22	8:72:137:VAL:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2A:103:LEU:HD12	11:2A:103:LEU:HA	1.59	0.45
17:8A:31:LEU:HA	17:8A:31:LEU:HD12	1.63	0.45
20:BA:16:HIS:O	20:BA:19:SER:OG	2.29	0.45
20:BA:97:ALA:HA	20:BA:98:PRO:HD3	1.60	0.45
26:14:654:A:N3	26:14:654:A:H2'	2.32	0.45
26:14:920:G:H2'	26:14:921:G:H8	1.81	0.45
26:14:994:C:O2'	26:14:996:A:OP1	2.32	0.45
26:14:2259:G:H1'	26:14:2427:C:C2	2.52	0.45
29:19:273:ARG:O	29:19:273:ARG:HG2	2.17	0.45
30:29:136:ARG:HG2	30:29:136:ARG:NH1	2.32	0.45
30:29:154:LYS:HE3	30:29:154:LYS:HA	1.99	0.45
31:39:123:LEU:O	31:39:193:VAL:HA	2.16	0.45
32:49:95:ARG:HD3	32:49:96:ARG:HH11	1.82	0.45
34:69:75:LEU:HD22	34:69:139:GLN:OE1	2.17	0.45
40:65:24:LEU:HB2	40:65:85:VAL:HG12	1.98	0.45
42:85:92:ARG:HD2	42:85:95:LEU:HD12	1.99	0.45
48:E5:14:ARG:HE	48:E5:14:ARG:HB2	1.39	0.45
49:F5:29:GLY:O	49:F5:30:VAL:HG22	2.17	0.45
52:I5:42:PHE:O	52:I5:43:TYR:HB3	2.16	0.45
1:13:405:U:O2'	1:13:497:U:H5'	2.16	0.45
1:13:538:G:H5"	12:3I:114:LYS:HB2	1.99	0.45
1:13:922:G:O2'	1:13:1398:A:N1	2.48	0.45
1:13:1008:C:H42	1:13:1021:G:H1	1.64	0.45
1:13:1096:C:H2'	1:13:1097:C:H6	1.81	0.45
1:13:1150:U:O2	10:1I:39:PRO:HG2	2.17	0.45
1:13:1447:G:C6	1:13:1460:A:C2	3.05	0.45
4:3E:33:MET:HE3	4:3E:33:MET:HB3	1.87	0.45
4:3E:70:ILE:CG2	4:3E:75:PHE:HB2	2.47	0.45
5:4E:113:ALA:O	5:4E:115:VAL:HG23	2.16	0.45
10:1I:26:ALA:C	10:1I:30:SER:HB3	2.41	0.45
17:8I:74:LEU:HD22	17:8I:74:LEU:HA	1.63	0.45
26:1H:1528:A:N6	26:1H:1529:A:N1	2.65	0.45
30:21:4:ILE:C	30:21:5:LEU:HD23	2.42	0.45
30:21:175:VAL:HG22	30:21:177:PRO:HD3	1.97	0.45
31:31:53:THR:O	31:31:55:GLY:N	2.50	0.45
31:31:129:PHE:HA	31:31:142:TRP:CD1	2.52	0.45
31:31:130:ALA:C	31:31:132:VAL:H	2.23	0.45
35:58:130:HIS:C	35:58:134:ARG:HH22	2.25	0.45
36:68:112:MET:HA	36:68:115:VAL:HG22	1.98	0.45
38:88:17:LEU:HD13	38:88:39:PRO:HB2	1.98	0.45
40:A8:26:LEU:HD23	40:A8:87:PHE:HD1	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:G8:46:LYS:HG2	46:G8:60:PHE:CD1	2.52	0.45
52:M8:13:ARG:HB3	52:M8:20:ASN:OD1	2.16	0.45
1:1G:797:C:OP1	11:2A:124:LYS:NZ	2.36	0.45
10:1A:25:GLU:OE2	10:1A:28:ARG:HD2	2.16	0.45
12:3A:32:PHE:HD1	12:3A:86:ARG:HA	1.82	0.45
15:6A:77:ARG:HA	15:6A:80:ALA:HB3	1.99	0.45
24:3L:9:A:H2'	24:3L:11:C:H41	1.82	0.45
26:14:13:A:N1	26:14:525:U:H2'	2.31	0.45
26:14:194:G:H2'	26:14:195:A:O4'	2.17	0.45
26:14:529:A:H4'	26:14:530:G:O5'	2.17	0.45
26:14:792:G:O2'	26:14:2440:C:N3	2.46	0.45
26:14:1142:U:H5"	26:14:1142(A):A:H5'	1.98	0.45
26:14:1919:A:H5"	26:14:1920:C:OP2	2.17	0.45
26:14:2358:G:C4	26:14:2359:C:C5	3.04	0.45
26:14:2416:C:O5'	26:14:2416:C:H6	1.99	0.45
26:14:2839:G:H2'	26:14:2840:C:O4'	2.17	0.45
30:29:153:GLY:O	30:29:154:LYS:C	2.58	0.45
32:49:42:GLY:O	32:49:43:LEU:HD13	2.16	0.45
33:59:19:VAL:HG12	33:59:20:ALA:N	2.29	0.45
37:35:37:GLY:N	37:35:40:SER:OG	2.50	0.45
37:35:86:LYS:HG3	37:35:87:ASP:H	1.81	0.45
39:55:56:LYS:HD2	39:55:88:ARG:HA	1.99	0.45
39:55:107:ASP:OD1	39:55:107:ASP:C	2.60	0.45
41:75:16:ARG:HE	41:75:16:ARG:HB3	1.23	0.45
42:85:110:VAL:O	42:85:114:LYS:HG2	2.16	0.45
43:95:35:LEU:HD23	43:95:35:LEU:H	1.80	0.45
47:D5:102:LEU:HB2	47:D5:104:PHE:CE1	2.52	0.45
48:E5:27:GLU:HA	48:E5:67:VAL:O	2.16	0.45
49:F5:26:ARG:CZ	49:F5:26:ARG:HB2	2.42	0.45
1:13:1255:G:OP1	10:1I:45:ARG:NH2	2.50	0.45
6:5E:23:LYS:HG2	6:5E:27:GLN:HE22	1.81	0.45
9:8E:8:GLY:HA3	9:8E:79:LEU:HB3	1.99	0.45
14:5I:15:LYS:HE2	14:5I:16:PHE:HE1	1.81	0.45
15:6I:6:GLU:CD	15:6I:6:GLU:N	2.74	0.45
22:1K:38:A:H2'	22:1K:39:A:O4'	2.17	0.45
24:3K:2:C:H4'	24:3K:3:C:OP1	2.17	0.45
24:3K:72:C:H2'	24:3K:73:A:O4'	2.17	0.45
26:1H:338:G:OP1	46:G8:4:LYS:HD3	2.16	0.45
26:1H:466:A:H2'	26:1H:467:G:H5'	1.99	0.45
26:1H:507:A:C5'	26:1H:508:G:H5'	2.46	0.45
26:1H:618:G:H2'	26:1H:618(A):C:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:975:G:H1'	26:1H:990:A:C2	2.51	0.45
26:1H:1314:C:O5'	26:1H:1314:C:H6	1.99	0.45
26:1H:1322:A:C5	26:1H:1323:U:C5	3.04	0.45
26:1H:1337:G:C2	26:1H:1338:G:C4	3.05	0.45
26:1H:1530:G:H2'	26:1H:1531:C:C6	2.52	0.45
26:1H:2373:G:H1	26:1H:2380:C:H42	1.65	0.45
26:1H:2408:U:O2'	26:1H:2409:G:H5'	2.17	0.45
26:1H:2592:G:C6	26:1H:2593:U:C4	3.05	0.45
29:11:8:PRO:HB3	29:11:14:ARG:HB3	1.99	0.45
31:31:29:ASN:O	31:31:32:LEU:N	2.50	0.45
31:31:101:LEU:HD22	31:31:102:PRO:CD	2.46	0.45
32:41:115:ARG:HB3	32:41:115:ARG:HH11	1.82	0.45
34:61:144:VAL:HG22	34:61:145:VAL:CG2	2.47	0.45
35:58:9:VAL:HG21	35:58:39:ARG:HH22	1.81	0.45
37:78:83:VAL:CG1	37:78:112:LEU:HD21	2.47	0.45
38:88:6:ARG:HB2	38:88:6:ARG:HH11	1.80	0.45
38:88:37:LEU:HD21	38:88:130:LYS:HE3	1.97	0.45
41:B8:50:ILE:O	41:B8:99:LEU:HD12	2.16	0.45
44:E8:19:LEU:HD12	44:E8:19:LEU:HA	1.58	0.45
44:E8:37:ARG:HD3	44:E8:38:TYR:CE1	2.51	0.45
48:I8:50:ASN:HB3	48:I8:63:VAL:HG22	1.99	0.45
50:K8:50:ILE:HD12	50:K8:50:ILE:N	2.31	0.45
51:L8:8:LEU:HD13	51:L8:31:LEU:HA	1.98	0.45
1:1G:997:U:H2'	1:1G:998:G:C8	2.52	0.45
1:1G:1315:U:H2'	1:1G:1316:G:O4'	2.16	0.45
2:12:7:VAL:HG22	2:12:8:LYS:H	1.82	0.45
2:12:8:LYS:O	2:12:9:GLU:HB3	2.16	0.45
3:22:43:LEU:O	3:22:47:LEU:HB2	2.16	0.45
5:42:35:GLY:HA2	5:42:41:VAL:HG12	1.99	0.45
6:52:77:ARG:HB3	6:52:77:ARG:HH11	1.82	0.45
15:6A:62:GLN:O	15:6A:65:ARG:HG3	2.17	0.45
19:AA:48:THR:HA	19:AA:61:TYR:HA	1.98	0.45
24:3L:6:G:N1	24:3L:67:C:N3	2.59	0.45
26:14:249:C:OP1	59:14:3415:HOH:O	2.20	0.45
26:14:528:A:N7	26:14:2042:A:C6	2.84	0.45
26:14:614:U:C1'	26:14:615:G:H5"	2.47	0.45
26:14:748:G:OP2	44:A5:88:ARG:HG3	2.16	0.45
26:14:977:G:H2'	26:14:978:G:C8	2.51	0.45
26:14:977:G:C6	26:14:987:G:C5	3.05	0.45
26:14:1015:G:O6	26:14:1148:A:N6	2.50	0.45
26:14:1306:C:O2	26:14:1623:G:C2	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1358:G:N2	26:14:1372:U:C5	2.84	0.45
26:14:1519:G:H2'	26:14:1520:U:O4'	2.17	0.45
26:14:1674:G:N2	26:14:1677:A:N1	2.62	0.45
26:14:1798:U:OP2	29:19:273:ARG:NH1	2.43	0.45
26:14:2129:C:C4	26:14:2130:U:C4	3.05	0.45
26:14:2240:C:O2'	26:14:2241:A:H5'	2.17	0.45
26:14:2715:C:H2'	26:14:2716:U:H6	1.82	0.45
27:1J:87:G:H3'	27:1J:88:C:C5'	2.44	0.45
29:19:37:LEU:HD11	29:19:60:ARG:HB2	1.98	0.45
30:29:95:ILE:H	30:29:95:ILE:HG13	1.36	0.45
37:35:47:ASP:OD1	37:35:49:ARG:HB2	2.17	0.45
42:85:76:TYR:CE1	42:85:80:ILE:HD11	2.51	0.45
44:A5:20:VAL:CG2	44:A5:47:VAL:HG21	2.47	0.45
52:I5:23:GLU:HG3	52:I5:24:THR:N	2.31	0.45
1:13:181:G:O2'	1:13:182:U:H6	2.00	0.45
1:13:313:A:H2'	1:13:314:C:C6	2.51	0.45
1:13:448:A:OP2	1:13:485:G:N2	2.44	0.45
1:13:554:C:H2'	1:13:555:C:H6	1.82	0.45
1:13:1196:U:C4	25:4K:23:A:C8	3.05	0.45
2:1E:91:PRO:HD3	2:1E:155:LEU:HD23	1.99	0.45
3:2E:32:LEU:HD22	3:2E:32:LEU:HA	1.72	0.45
4:3E:60:GLU:OE2	4:3E:198:VAL:HA	2.17	0.45
5:4E:35:GLY:H	5:4E:112:LEU:HD13	1.82	0.45
6:5E:97:PHE:N	18:9I:30:ASP:OD1	2.43	0.45
11:2I:124:LYS:HB3	11:2I:125:PHE:CD1	2.52	0.45
26:1H:645:C:O2	26:1H:645:C:H2'	2.16	0.45
26:1H:833:U:O2	37:78:55:ARG:NH2	2.47	0.45
26:1H:918:A:H8	26:1H:918:A:O5'	1.99	0.45
26:1H:1776:G:OP2	59:1H:3562:HOH:O	2.21	0.45
26:1H:1935:G:H1'	26:1H:1964:G:N2	2.32	0.45
26:1H:2027:G:C5	26:1H:2028:U:C5	3.05	0.45
26:1H:2319:G:H22	26:1H:2334:G:P	2.40	0.45
26:1H:2587:A:N6	26:1H:2608:G:H1'	2.31	0.45
26:1H:2815:C:H2'	26:1H:2816:C:C6	2.48	0.45
27:16:87:G:N2	27:16:89(A):A:OP2	2.47	0.45
30:21:134:ILE:C	30:21:134:ILE:HD12	2.42	0.45
31:31:116:ASP:OD2	37:78:1:MET:HB2	2.17	0.45
31:31:125:LEU:HD11	31:31:199:TRP:CD2	2.52	0.45
33:51:80:SER:C	33:51:81:GLU:HG3	2.42	0.45
34:61:46:ALA:C	34:61:50:ARG:HD3	2.42	0.45
34:61:131:LYS:HB3	34:61:132:PRO:CA	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:88:133:ARG:HE	38:88:133:ARG:HB2	1.41	0.45
39:98:48:VAL:O	39:98:51:LEU:N	2.50	0.45
40:A8:27:SER:HA	40:A8:88:ASP:HB3	1.99	0.45
40:A8:101:LEU:HD12	40:A8:101:LEU:O	2.17	0.45
42:C8:79:PHE:O	42:C8:79:PHE:HD1	2.00	0.45
47:H8:160:GLY:O	47:H8:161:VAL:HG13	2.17	0.45
55:Q8:53:PRO:HB3	55:Q8:56:GLU:N	2.32	0.45
1:1G:1097:C:O2'	1:1G:1169:A:N3	2.41	0.45
1:1G:1305:G:O2'	1:1G:1306:A:H8	2.00	0.45
2:12:54:THR:O	2:12:57:PHE:HB3	2.16	0.45
4:32:59:ARG:NH2	4:32:66:ARG:NH1	2.65	0.45
24:3L:14:A:C6	24:3L:22:G:C4	3.05	0.45
26:14:60:G:C2	26:14:74:A:C5	3.05	0.45
26:14:222:A:H5"	26:14:421:U:OP1	2.16	0.45
26:14:601:C:H5'	31:39:108:LYS:NZ	2.32	0.45
26:14:676:A:H8	26:14:2069:G:N2	2.01	0.45
26:14:760:G:H2'	26:14:761:A:O4'	2.17	0.45
26:14:823:G:H2'	26:14:824:A:C8	2.52	0.45
26:14:1011:G:C2	26:14:1151:G:C2	3.04	0.45
26:14:2111:C:C6	26:14:2118:U:H4'	2.51	0.45
26:14:2230:G:H1'	49:F5:45:ASN:OD1	2.17	0.45
26:14:2365:G:H4'	48:E5:60:PHE:CZ	2.52	0.45
26:14:2615:U:N1	53:J5:7:PRO:HA	2.32	0.45
26:14:2641:G:O3'	35:15:76:SER:OG	2.34	0.45
26:14:2844:G:C2	26:14:2874:C:N3	2.85	0.45
29:19:232:PRO:HD2	29:19:249:PRO:HA	1.99	0.45
30:29:33:VAL:H	30:29:89:ASP:CG	2.25	0.45
34:69:74:ASN:OD1	34:69:75:LEU:N	2.49	0.45
34:69:104:GLN:HE21	34:69:104:GLN:HB3	1.61	0.45
36:25:104:ARG:O	36:25:107:ARG:HG2	2.16	0.45
37:35:78:PRO:HB3	37:35:111:ARG:NH1	2.32	0.45
41:75:52:ILE:HG12	41:75:61:PHE:HB3	1.99	0.45
43:95:84:LYS:HA	43:95:84:LYS:HD2	1.51	0.45
46:C5:36:ALA:O	46:C5:37:VAL:HG13	2.17	0.45
48:E5:24:LYS:O	48:E5:25:ARG:HD3	2.17	0.45
51:H5:6:VAL:O	51:H5:34:GLU:HA	2.17	0.45
52:I5:49:PHE:CD2	52:I5:50:VAL:HG22	2.49	0.45
1:13:22:G:H2'	1:13:23:C:H6	1.81	0.44
1:13:557:G:C6	1:13:558:G:C6	3.05	0.44
1:13:559:A:H4'	1:13:560:U:H3'	1.98	0.44
1:13:920:U:O4'	1:13:1080:A:C2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1425:U:H2'	1:13:1426:C:H6	1.81	0.44
2:1E:28:PHE:O	2:1E:32:ILE:HG22	2.17	0.44
4:3E:112:VAL:HG12	4:3E:116:GLN:OE1	2.17	0.44
5:4E:74:GLY:HA3	5:4E:116:THR:HG23	1.98	0.44
5:4E:96:PRO:HA	5:4E:117:ASP:CG	2.43	0.44
16:7I:72:ARG:HD3	16:7I:73:LEU:HG	1.98	0.44
20:BI:53:LEU:O	20:BI:57:ARG:HB2	2.17	0.44
24:3K:23:A:H2'	24:3K:24:G:C8	2.52	0.44
26:1H:155:C:H42	26:1H:171:G:H1	1.64	0.44
26:1H:270(I):G:H1	26:1H:270(Q):C:N4	2.15	0.44
26:1H:289:A:H61	26:1H:351:G:H1'	1.82	0.44
26:1H:485:C:C2	26:1H:496:G:N2	2.85	0.44
26:1H:890:A:H3'	26:1H:892:G:H8	1.81	0.44
26:1H:993:G:H2'	26:1H:994:C:H6	1.82	0.44
26:1H:1188:U:C4'	43:D8:79:VAL:HG22	2.47	0.44
26:1H:1396:U:O2	26:1H:1396:U:H2'	2.16	0.44
26:1H:1465:G:C4	26:1H:1466:G:C8	3.05	0.44
26:1H:1833:U:C2	26:1H:1834:U:C5	3.05	0.44
26:1H:2130:U:H2'	26:1H:2131:G:C8	2.51	0.44
26:1H:2156:G:C4	26:1H:2157:G:N2	2.85	0.44
26:1H:2638:G:P	30:21:82:ARG:HH21	2.39	0.44
26:1H:2860:A:C8	26:1H:2861:G:H1'	2.52	0.44
26:1H:2863:C:H2'	26:1H:2864:G:C8	2.52	0.44
28:71:49:ILE:CG2	28:71:56:GLN:HG2	2.42	0.44
32:41:47:LYS:HD3	32:41:81:LYS:CB	2.47	0.44
33:51:4:ILE:O	33:51:4:ILE:HG12	2.17	0.44
39:98:96:ARG:HD2	39:98:115:GLU:HG2	1.99	0.44
45:F8:11:PRO:HG2	45:F8:13:LEU:HD21	1.99	0.44
45:F8:49:VAL:HG21	45:F8:83:VAL:HG12	1.99	0.44
49:J8:21:ARG:HE	49:J8:21:ARG:HB3	1.29	0.44
49:J8:57:GLU:C	49:J8:58:ILE:HD12	2.42	0.44
55:Q8:27:THR:C	55:Q8:29:LYS:HA	2.42	0.44
1:1G:167:G:H2'	1:1G:168:G:C8	2.46	0.44
1:1G:286:G:C6	1:1G:287:U:C4	3.05	0.44
1:1G:457:C:C2	1:1G:458:C:C5	3.05	0.44
1:1G:861:G:H8	1:1G:861:G:O5'	2.00	0.44
1:1G:1126:U:H5"	1:1G:1280:A:N7	2.32	0.44
1:1G:1157:A:OP1	1:1G:1158:C:H5	2.00	0.44
1:1G:1228:C:H5'	13:4A:114:ARG:HB3	1.99	0.44
1:1G:1287:A:H2	1:1G:1353:G:N3	2.15	0.44
8:72:69:ARG:HG3	8:72:76:PRO:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:82:79:LEU:HD23	9:82:101:PHE:O	2.16	0.44
9:82:112:LYS:CE	9:82:118:LYS:H	2.30	0.44
12:3A:60:LEU:HD23	12:3A:66:VAL:HG23	1.98	0.44
20:BA:54:LYS:HA	20:BA:57:ARG:CZ	2.47	0.44
26:14:245:G:N3	26:14:246:C:C6	2.85	0.44
26:14:451:C:H41	26:14:454:A:H5'	1.81	0.44
26:14:602:G:OP2	26:14:602:G:H8	2.00	0.44
26:14:1043:C:C2	26:14:1112:G:N2	2.81	0.44
26:14:1149:G:H2'	26:14:1150:C:C6	2.52	0.44
26:14:1538:G:H2'	26:14:1539:G:C8	2.46	0.44
26:14:1815:A:OP2	29:19:54:ARG:NH2	2.50	0.44
26:14:2062:A:O2'	26:14:2063:C:P	2.74	0.44
26:14:2705:A:H2'	26:14:2706:G:O4'	2.17	0.44
26:14:2819:G:C6	26:14:2821:A:C2	3.05	0.44
30:29:79:ARG:N	30:29:79:ARG:HD2	2.33	0.44
31:39:116:ASP:OD1	31:39:119:ARG:NH2	2.50	0.44
31:39:204:ASN:OD1	31:39:204:ASN:N	2.50	0.44
37:35:47:ASP:HB3	37:35:49:ARG:H	1.82	0.44
37:35:97:PRO:C	37:35:99:LEU:H	2.25	0.44
39:55:61:HIS:O	39:55:65:LEU:HD22	2.17	0.44
41:75:18:ASP:OD1	41:75:19:LEU:HG	2.17	0.44
41:75:102:ILE:HB	41:75:110:ILE:HD11	1.99	0.44
45:B5:84:ALA:O	45:B5:87:GLN:HG3	2.17	0.44
47:D5:94:GLU:O	47:D5:129:SER:HA	2.17	0.44
1:13:175:C:H2'	1:13:176:C:O4'	2.17	0.44
1:13:343:U:C2	1:13:347:G:N1	2.85	0.44
1:13:526:C:O5'	1:13:526:C:H6	2.00	0.44
1:13:627:G:C4	1:13:628:G:C8	3.05	0.44
1:13:1417:G:N2	1:13:1482:G:H2'	2.33	0.44
2:1E:17:PHE:HD1	2:1E:17:PHE:N	2.15	0.44
2:1E:53:ARG:HH12	2:1E:200:ILE:HD12	1.83	0.44
2:1E:158:LEU:O	2:1E:158:LEU:HD12	2.17	0.44
3:2E:129:ALA:O	3:2E:132:ARG:HB3	2.16	0.44
4:3E:30:LYS:HB3	4:3E:35:ARG:HE	1.82	0.44
5:4E:153:LYS:HD3	5:4E:154:GLY:O	2.17	0.44
7:6E:156:TRP:CD1	7:6E:156:TRP:H	2.35	0.44
26:1H:381:G:C4	26:1H:394:A:C2	3.05	0.44
26:1H:512:G:N7	59:1H:4390:HOH:O	2.50	0.44
26:1H:881:G:H2'	26:1H:881:G:N3	2.31	0.44
26:1H:957:A:N1	26:1H:2458:G:H4'	2.32	0.44
26:1H:1010:A:N3	26:1H:1153:C:H1'	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1187:G:P	59:1H:3820:HOH:O	2.74	0.44
26:1H:1357:U:C4	26:1H:1358:G:C6	3.05	0.44
26:1H:1419:A:C8	26:1H:1421:G:C6	3.04	0.44
26:1H:1637:A:H4'	26:1H:2711:A:HO2'	1.82	0.44
26:1H:1678:G:H8	26:1H:1678:G:OP2	1.98	0.44
26:1H:2839:G:H2'	26:1H:2840:C:C6	2.52	0.44
31:31:152:GLU:OE1	31:31:191:ARG:HD2	2.17	0.44
31:31:178:PRO:HG2	31:31:179:GLU:OE1	2.16	0.44
31:31:197:ASP:O	31:31:198:ALA:C	2.59	0.44
35:58:1:MET:HE1	42:C8:95:LEU:CD1	2.46	0.44
35:58:26:LEU:O	35:58:30:ILE:HG13	2.17	0.44
35:58:54:VAL:HB	35:58:122:VAL:HG22	1.99	0.44
42:C8:58:ARG:HA	42:C8:61:TRP:CE3	2.51	0.44
46:G8:54:LYS:HA	46:G8:56:PRO:HD3	1.99	0.44
48:I8:50:ASN:ND2	48:I8:83:PRO:HD3	2.33	0.44
50:K8:50:ILE:HD12	50:K8:51:ARG:H	1.83	0.44
55:Q8:46:ARG:HH21	55:Q8:48:PHE:HA	1.81	0.44
1:1G:222:U:N3	1:1G:223:U:C4	2.85	0.44
1:1G:289:G:C2	1:1G:312:C:O2	2.69	0.44
1:1G:413:G:O2'	1:1G:428:G:N2	2.51	0.44
1:1G:567:G:H2'	1:1G:568:G:O4'	2.18	0.44
1:1G:579:G:C4	1:1G:580:U:C5	3.05	0.44
1:1G:686:U:H4'	1:1G:687:A:OP1	2.15	0.44
1:1G:792:A:H4'	1:1G:793:U:O5'	2.18	0.44
1:1G:1301:U:O2	1:1G:1301:U:H2'	2.18	0.44
2:12:157:ARG:HG2	2:12:158:LEU:N	2.32	0.44
3:22:11:ARG:HE	3:22:180:ALA:HB3	1.80	0.44
5:42:50:GLU:OE2	5:42:51:VAL:HG23	2.17	0.44
7:62:13:GLN:HA	7:62:14:PRO:HD3	1.75	0.44
11:2A:82:VAL:CG1	11:2A:108:ILE:HG12	2.47	0.44
13:4A:56:LEU:O	13:4A:60:VAL:HG23	2.17	0.44
14:5A:26:ARG:HD3	14:5A:43:CYS:SG	2.57	0.44
19:AA:12:ASP:HB3	19:AA:38:SER:HB3	1.99	0.44
20:BA:64:ASP:OD1	20:BA:81:LYS:HD2	2.17	0.44
26:14:266:G:H2'	26:14:267:C:O5'	2.17	0.44
26:14:273(F):C:H3'	26:14:274:G:H5"	1.99	0.44
26:14:389:G:H8	26:14:389:G:O5'	2.00	0.44
26:14:547:A:C5	26:14:548:A:N6	2.85	0.44
26:14:607:U:OP1	31:39:103:LYS:N	2.44	0.44
26:14:826:U:H2'	26:14:828:U:O4'	2.16	0.44
26:14:1180:C:H2'	26:14:1181:C:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1187:G:OP2	59:14:3592:HOH:O	2.21	0.44
26:14:1464:C:HO2'	26:14:1528:A:H8	1.61	0.44
26:14:2184:G:H2'	26:14:2185:C:C6	2.53	0.44
26:14:2312:U:H5"	32:49:74:LYS:HE3	1.97	0.44
26:14:2600:A:H2'	26:14:2601:C:C6	2.53	0.44
26:14:2702:U:H2'	26:14:2702:U:O2	2.16	0.44
27:1J:3:C:H42	27:1J:117:G:N2	2.14	0.44
27:1J:33:G:C6	27:1J:34:U:C4	3.05	0.44
29:19:61:LEU:HD13	29:19:61:LEU:HA	1.81	0.44
30:29:79:ARG:HG2	30:29:79:ARG:NH1	2.32	0.44
31:39:51:THR:HB	31:39:88:VAL:HG11	2.00	0.44
38:45:75:THR:HG21	38:45:85:LYS:HE3	1.98	0.44
43:95:81:TYR:O	43:95:82:ARG:HG3	2.17	0.44
49:F5:41:ARG:HD3	49:F5:43:TYR:HE1	1.82	0.44
1:13:122:G:H2'	1:13:123:C:O4'	2.16	0.44
1:13:407:G:H1	1:13:435:C:H42	1.65	0.44
1:13:628:G:H2'	1:13:629:G:H8	1.82	0.44
1:13:765:G:H5"	1:13:766:A:OP1	2.17	0.44
1:13:774:G:N2	1:13:775:G:H1'	2.32	0.44
1:13:1074:G:H4'	2:1E:104:ASN:HB2	1.99	0.44
1:13:1152:A:H5'	10:1I:13:HIS:CG	2.52	0.44
1:13:1301:U:C3'	1:13:1302:U:H5'	2.48	0.44
6:5E:35:ALA:HA	6:5E:67:MET:HB3	1.99	0.44
13:4I:65:LYS:NZ	52:M8:52:THR:HG22	2.32	0.44
13:4I:67:GLU:CD	13:4I:68:GLY:H	2.25	0.44
19:AI:7:LYS:HG2	19:AI:7:LYS:O	2.18	0.44
23:2K:2:G:H2'	23:2K:2:G:N3	2.31	0.44
26:1H:49:A:H5"	26:1H:51:G:O4'	2.17	0.44
26:1H:141:A:H1'	26:1H:1408:C:H1'	1.99	0.44
26:1H:284:U:H2'	26:1H:285:C:C6	2.52	0.44
26:1H:287:C:C2	26:1H:288:C:C6	3.06	0.44
26:1H:775:G:C4	26:1H:794:G:C8	3.05	0.44
26:1H:1776:G:C2	26:1H:1777:U:C6	3.05	0.44
26:1H:1777:U:O2'	26:1H:1778:U:H5'	2.17	0.44
26:1H:1993:U:C4	26:1H:1994:C:C5	3.05	0.44
26:1H:2695:C:H2'	26:1H:2696:U:H6	1.81	0.44
27:16:83:G:H4'	51:L8:52:HIS:CG	2.53	0.44
31:31:123:LEU:HD12	31:31:124:LEU:N	2.32	0.44
35:58:120:LEU:HD22	35:58:121:LYS:N	2.32	0.44
39:98:2:ARG:O	39:98:5:LYS:HG2	2.18	0.44
46:G8:45:VAL:HG22	46:G8:46:LYS:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:I8:21:LEU:HD23	48:I8:21:LEU:HA	1.71	0.44
50:K8:34:GLU:O	50:K8:38:GLN:HG3	2.17	0.44
55:Q8:6:THR:HG22	55:Q8:59:LYS:HD2	1.99	0.44
1:1G:17:U:H1'	1:1G:1080:A:N3	2.32	0.44
1:1G:158:G:H1	1:1G:163:C:N4	2.10	0.44
1:1G:407:G:H5"	4:32:115:ARG:HB3	1.99	0.44
1:1G:892:A:O2'	1:1G:1415:G:H4'	2.18	0.44
1:1G:1257:U:H5'	1:1G:1258:G:C8	2.51	0.44
1:1G:1277:C:O2'	1:1G:1279:A:H1'	2.18	0.44
1:1G:1329:A:O2'	13:4A:24:GLY:HA2	2.17	0.44
1:1G:1352:C:N4	1:1G:1370:G:H1	2.15	0.44
1:1G:1442:G:N7	1:1G:1446:A:C5	2.86	0.44
2:12:5:ILE:HA	2:12:221:LEU:HD11	1.98	0.44
3:22:84:ILE:O	3:22:88:ARG:HB2	2.17	0.44
5:42:88:LYS:HE2	5:42:88:LYS:HB3	1.69	0.44
6:52:19:LEU:O	6:52:23:LYS:HG3	2.17	0.44
8:72:35:ILE:H	8:72:35:ILE:HG13	1.33	0.44
11:2A:34:ASP:HB2	11:2A:35:PRO:CD	2.47	0.44
12:3A:86:ARG:HB2	12:3A:101:VAL:CG2	2.47	0.44
26:14:527:C:H4'	26:14:528:A:O5'	2.17	0.44
26:14:634:C:H2'	26:14:635:C:C6	2.52	0.44
26:14:654(S):G:C2	26:14:654(T):A:C6	3.05	0.44
26:14:705:A:H1'	29:19:9:TYR:CE2	2.52	0.44
26:14:1137:G:C4	26:14:1138:G:C8	3.05	0.44
26:14:1195:G:C2'	26:14:1196:C:H5'	2.47	0.44
26:14:2114:A:H61	26:14:2170:A:H61	1.65	0.44
26:14:2209:C:O2	26:14:2216:G:C2	2.70	0.44
26:14:2749:A:H4'	33:59:62:LYS:HD2	1.98	0.44
26:14:2853:C:H2'	26:14:2854:G:C8	2.52	0.44
34:69:44:LEU:HA	34:69:44:LEU:HD23	1.64	0.44
36:25:43:VAL:HG23	36:25:56:ASP:O	2.16	0.44
36:25:68:GLU:HA	36:25:78:ARG:HB3	1.99	0.44
38:45:26:TYR:HE2	38:45:141:GLN:HE22	1.65	0.44
38:45:57:HIS:NE2	38:45:116:GLU:HB3	2.32	0.44
38:45:138:ASP:CB	38:45:141:GLN:HG2	2.47	0.44
39:55:12:ARG:O	39:55:17:ARG:NH2	2.50	0.44
40:65:12:PHE:HD1	40:65:12:PHE:HA	1.71	0.44
41:75:34:VAL:N	41:75:41:ARG:O	2.48	0.44
43:95:80:GLN:C	43:95:81:TYR:CD1	2.96	0.44
48:E5:53:MET:HG3	48:E5:59:LEU:HD23	2.00	0.44
52:I5:13:ARG:HG2	52:I5:22:ILE:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:29:G:O2'	1:13:30:U:H5'	2.18	0.44
1:13:172:A:H8	1:13:172:A:OP2	2.00	0.44
1:13:280:C:C2	17:8I:38:ARG:HG3	2.53	0.44
1:13:446:G:N2	1:13:489:C:N3	2.65	0.44
1:13:734:G:C6	1:13:735:C:C4	3.05	0.44
1:13:1075:C:H2'	1:13:1076:C:H6	1.83	0.44
1:13:1080:A:H5"	5:4E:16:THR:HG21	1.98	0.44
1:13:1158:C:C2	1:13:1160:G:C8	3.06	0.44
1:13:1375:A:P	7:6E:28:ASN:HD22	2.40	0.44
3:2E:3:ASN:O	3:2E:4:LYS:HG2	2.17	0.44
4:3E:9:CYS:SG	4:3E:22:LYS:HG3	2.58	0.44
6:5E:22:GLU:OE2	6:5E:82:ARG:NE	2.49	0.44
6:5E:23:LYS:CG	6:5E:27:GLN:HE22	2.31	0.44
12:3I:111:LYS:O	12:3I:112:ASP:HB2	2.18	0.44
17:8I:29:HIS:N	17:8I:34:LYS:O	2.44	0.44
20:BI:26:ASN:HD22	20:BI:71:THR:HA	1.83	0.44
26:1H:270(F):U:O5'	26:1H:270(F):U:H6	2.01	0.44
26:1H:722:A:H2'	26:1H:723:G:H8	1.79	0.44
26:1H:1081:U:O2'	26:1H:1082:U:O4'	2.30	0.44
26:1H:1682:G:C2	26:1H:1683:C:C2	3.05	0.44
26:1H:1691:C:C4	26:1H:1692:U:C4	3.05	0.44
26:1H:1952:A:C5	36:68:22:ILE:HD12	2.53	0.44
26:1H:1965:C:H3'	26:1H:1966:A:H2'	1.98	0.44
26:1H:2530:A:N7	33:51:172:LYS:NZ	2.61	0.44
26:1H:2582:G:C2	26:1H:2583:G:C8	3.06	0.44
26:1H:2619:C:O2'	26:1H:2620:C:H5'	2.17	0.44
26:1H:2832:U:O2	26:1H:2834:G:N1	2.51	0.44
26:1H:2882:A:OP1	39:98:96:ARG:NH1	2.51	0.44
29:11:67:PHE:HB3	29:11:153:ALA:H	1.82	0.44
29:11:245:PRO:HA	29:11:246:PRO:HD3	1.86	0.44
33:51:8:PRO:HG2	33:51:69:ARG:HH21	1.81	0.44
33:51:118:PRO:HD2	33:51:121:ILE:HG21	1.98	0.44
34:61:109:ILE:HB	34:61:130:TYR:CZ	2.52	0.44
37:78:60:MET:HA	55:Q8:13:ARG:HH12	1.82	0.44
37:78:113:LYS:HA	37:78:129:ALA:O	2.18	0.44
44:E8:66:GLU:O	44:E8:68:ARG:N	2.50	0.44
44:E8:70:TYR:N	44:E8:70:TYR:CD1	2.86	0.44
45:F8:9:LEU:O	50:K8:36:ARG:NE	2.43	0.44
52:M8:23:GLU:OE1	52:M8:24:THR:N	2.50	0.44
52:M8:48:ARG:HA	52:M8:48:ARG:HD3	1.55	0.44
53:N8:41:PRO:HB2	53:N8:42:PRO:CD	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:Q8:47:LYS:HA	55:Q8:47:LYS:CE	2.36	0.44
1:1G:265:G:H5'	17:8A:64:PRO:O	2.18	0.44
1:1G:271:C:H2'	1:1G:272:C:H6	1.83	0.44
1:1G:298:A:H5"	1:1G:299:G:OP2	2.16	0.44
1:1G:585:G:O2'	1:1G:879:C:H5"	2.17	0.44
1:1G:631:G:H2'	1:1G:632:A:C8	2.53	0.44
1:1G:1115:C:H2'	1:1G:1116:C:C6	2.53	0.44
1:1G:1129:C:H5	1:1G:1141:C:N4	2.15	0.44
1:1G:1465:C:H2'	1:1G:1466:C:O4'	2.18	0.44
3:22:21:ARG:HB3	3:22:21:ARG:HH11	1.82	0.44
20:BA:56:MET:HE2	20:BA:56:MET:HB3	1.91	0.44
26:14:15:G:C2	26:14:16:G:C8	3.05	0.44
26:14:251:A:C5	26:14:252:G:H1'	2.53	0.44
26:14:581:C:C2	26:14:582:G:C8	3.06	0.44
26:14:1408:C:H2'	26:14:1409:C:H6	1.82	0.44
26:14:1508:A:H5'	26:14:1509:C:OP1	2.18	0.44
26:14:1798:U:H5'	29:19:259:THR:OG1	2.17	0.44
26:14:1897:G:H2'	26:14:1898:U:C6	2.53	0.44
26:14:2002:G:O6	59:14:3793:HOH:O	2.20	0.44
26:14:2143:C:H2'	26:14:2144:U:H4'	2.00	0.44
26:14:2359:C:H2'	26:14:2360:A:O4'	2.18	0.44
26:14:2718:G:O2'	26:14:2847:U:OP1	2.32	0.44
29:19:239:ARG:HB2	29:19:240:ALA:H	1.68	0.44
32:49:64:THR:OG1	32:49:94:LEU:HD21	2.17	0.44
32:49:83:ARG:H	32:49:86:MET:HE3	1.82	0.44
33:59:73:ALA:O	33:59:76:VAL:HB	2.17	0.44
36:25:98:VAL:CG1	36:25:117:LEU:HB3	2.44	0.44
42:85:91:ASP:OD1	42:85:96:ALA:HB2	2.18	0.44
46:C5:19:LYS:C	46:C5:21:LYS:N	2.74	0.44
46:C5:39:VAL:HG23	46:C5:41:GLY:N	2.33	0.44
51:H5:38:GLU:HG3	51:H5:39:ASP:H	1.82	0.44
1:13:51:A:N7	1:13:114:U:O2'	2.47	0.44
1:13:286:G:C6	1:13:287:U:C4	3.06	0.44
1:13:1079:G:H2'	1:13:1080:A:C8	2.53	0.44
1:13:1133:G:H2'	1:13:1134:G:C8	2.53	0.44
1:13:1151:A:C4	1:13:1152:A:C8	3.06	0.44
1:13:1157:A:H8	1:13:1158:C:N4	2.15	0.44
1:13:1392:G:H2'	1:13:1393:U:C6	2.46	0.44
2:1E:97:TRP:HH2	2:1E:176:GLU:OE2	2.00	0.44
3:2E:139:GLN:HG3	3:2E:143:GLU:OE2	2.17	0.44
4:3E:65:ARG:HG3	4:3E:70:ILE:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:5E:19:LEU:O	6:5E:23:LYS:HB2	2.18	0.44
7:6E:51:GLN:NE2	7:6E:58:PRO:HD2	2.32	0.44
7:6E:92:SER:O	7:6E:96:GLN:HG3	2.17	0.44
19:AI:8:GLY:H	52:M8:66:SER:HB3	1.83	0.44
26:1H:70:G:H21	26:1H:71:A:H62	1.66	0.44
26:1H:654(J):A:N1	26:1H:654(M):C:C4	2.84	0.44
26:1H:879:G:C6	26:1H:898:C:N4	2.86	0.44
26:1H:1022:G:O2'	26:1H:1023:U:OP2	2.25	0.44
26:1H:1144:G:C6	26:1H:1145:C:N4	2.86	0.44
26:1H:1339:G:H21	26:1H:1603:A:H1'	1.82	0.44
26:1H:1605:C:H2'	26:1H:1606:G:O4'	2.17	0.44
26:1H:1805:U:O2	29:11:50:THR:HB	2.17	0.44
26:1H:1830:C:C2'	26:1H:1831:G:H5'	2.48	0.44
26:1H:1993:U:C5	26:1H:1994:C:H5	2.35	0.44
26:1H:2308:G:H2'	26:1H:2308:G:N3	2.32	0.44
26:1H:2378:A:H4'	40:A8:23:ARG:NH1	2.31	0.44
30:21:201:THR:HG22	30:21:202:LYS:N	2.33	0.44
31:31:34:TRP:HB2	37:78:6:LEU:HD12	1.99	0.44
31:31:101:LEU:O	31:31:106:ARG:NH1	2.50	0.44
32:41:46:ALA:HB3	32:41:53:LEU:HD13	2.00	0.44
32:41:53:LEU:HD12	32:41:53:LEU:HA	1.76	0.44
32:41:77:ILE:O	32:41:81:LYS:O	2.35	0.44
32:41:181:ARG:HG2	32:41:181:ARG:HH11	1.83	0.44
34:61:123:LEU:HD23	34:61:142:VAL:O	2.17	0.44
35:58:28:THR:HG22	35:58:29:LYS:N	2.32	0.44
39:98:113:LEU:HD12	39:98:113:LEU:HA	1.82	0.44
39:98:116:LEU:HD23	39:98:116:LEU:HA	1.73	0.44
47:H8:17:ALA:HA	47:H8:20:ARG:HD2	2.00	0.44
47:H8:94:GLU:O	47:H8:130:PRO:HD3	2.18	0.44
1:1G:105:G:C6	1:1G:106:C:C4	3.05	0.44
1:1G:186(C):G:C6	1:1G:191(E):G:N1	2.85	0.44
1:1G:1018:C:O5'	1:1G:1018:C:H6	2.00	0.44
1:1G:1049:U:H4'	1:1G:1050:G:H5"	2.00	0.44
1:1G:1190:G:P	3:22:5:ILE:HD12	2.57	0.44
1:1G:1305:G:H8	1:1G:1305:G:OP2	2.00	0.44
2:12:7:VAL:HG13	2:12:8:LYS:HG3	2.00	0.44
2:12:72:GLY:O	2:12:74:LYS:N	2.50	0.44
3:22:23:TYR:CD1	3:22:24:ALA:N	2.86	0.44
4:32:30:LYS:HB3	4:32:35:ARG:HD2	1.99	0.44
5:42:101:ILE:O	5:42:101:ILE:HG12	2.17	0.44
13:4A:81:LEU:HD22	13:4A:88:ARG:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:2L:55:U:C4	56:2L:56:PSU:C2	3.05	0.44
24:3L:14:A:H2'	24:3L:15:G:H5'	1.98	0.44
26:14:572:A:C2	26:14:2033:A:C2	3.06	0.44
26:14:701:G:C6	26:14:702:G:N7	2.86	0.44
26:14:733:G:O6	26:14:761:A:C8	2.71	0.44
26:14:959:A:N1	26:14:960:A:C2	2.86	0.44
26:14:1044:G:H4'	26:14:1048:A:H1'	2.00	0.44
26:14:1153:C:H2'	26:14:1154:G:O4'	2.16	0.44
26:14:1279:G:H5'	39:55:34:ILE:HD11	2.00	0.44
26:14:1701:A:H5"	26:14:1702:G:OP2	2.18	0.44
26:14:1950:G:C2	26:14:1951:U:C5	3.06	0.44
26:14:2320:A:H1'	26:14:2321:G:C6	2.52	0.44
26:14:2340:G:H2'	26:14:2341:G:H8	1.82	0.44
30:29:89:ASP:C	30:29:91:VAL:H	2.22	0.44
30:29:101:ARG:CZ	30:29:171:GLU:HB2	2.47	0.44
31:39:60:SER:OG	31:39:61:GLY:N	2.51	0.44
32:49:39:ILE:HG23	32:49:157:ILE:HG12	2.00	0.44
32:49:103:LEU:HD22	32:49:178:PHE:HZ	1.82	0.44
35:15:62:VAL:HG13	35:15:66:LYS:HE3	2.00	0.44
45:B5:5:TYR:CE2	50:G5:30:ARG:HB2	2.51	0.44
51:H5:5:LYS:HB3	51:H5:5:LYS:HE3	1.51	0.44
52:I5:1:MET:HG2	52:I5:2:LYS:N	2.31	0.44
1:13:428:G:O4'	1:13:430:A:C8	2.71	0.44
1:13:449:C:C5	16:7I:42:ARG:HD2	2.53	0.44
1:13:515:G:C2	1:13:537:G:C2	3.06	0.44
1:13:991:U:HO2'	1:13:992:U:P	2.38	0.44
1:13:1145:C:C4'	1:13:1146:A:H5'	2.45	0.44
1:13:1162:C:O5'	1:13:1162:C:H6	2.01	0.44
1:13:1187:G:C6	1:13:1188:A:C5	3.06	0.44
1:13:1227:A:OP2	13:4I:111:LYS:HE3	2.18	0.44
1:13:1253:G:H1'	1:13:1355:G:O2'	2.17	0.44
1:13:1260:C:H4'	1:13:1283:G:O2'	2.17	0.44
1:13:1402:C:H2'	1:13:1403:C:O4'	2.17	0.44
1:13:1423:G:C6	1:13:1424:C:C4	3.06	0.44
2:1E:185:ILE:CG2	2:1E:199:TYR:HB2	2.42	0.44
4:3E:156:GLU:N	4:3E:156:GLU:OE2	2.51	0.44
5:4E:13:ILE:HD12	5:4E:13:ILE:HA	1.69	0.44
6:5E:55:ASP:HA	6:5E:56:PRO:HD2	1.77	0.44
8:7E:104:ARG:HB2	8:7E:107:LEU:HB2	1.98	0.44
11:2I:127:LYS:HD3	11:2I:128:ALA:CB	2.47	0.44
22:1K:67:C:H2'	22:1K:68:C:H6	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:120:U:H3'	59:1H:4086:HOH:O	2.18	0.44
26:1H:470:A:H2'	26:1H:471:A:C8	2.52	0.44
26:1H:724:U:H2'	26:1H:725:G:O4'	2.17	0.44
26:1H:924:C:H2'	26:1H:925:C:C6	2.53	0.44
26:1H:1027:A:N6	26:1H:1126:A:C4	2.86	0.44
26:1H:1169:G:N2	26:1H:1181:C:C2	2.86	0.44
26:1H:1607:C:H4'	26:1H:1608:A:O5'	2.18	0.44
26:1H:1819:A:O4'	26:1H:1821:A:C4	2.71	0.44
26:1H:2086:U:P	29:11:262:ARG:HH11	2.41	0.44
26:1H:2468:G:H5"	38:88:120:ILE:HD12	1.99	0.44
26:1H:2793:G:H8	26:1H:2793:G:OP2	2.01	0.44
26:1H:2830:G:N3	26:1H:2883:A:H2	2.15	0.44
27:16:16:G:H2'	27:16:17:C:H6	1.81	0.44
29:11:68:LYS:HB3	29:11:70:TRP:CZ3	2.51	0.44
31:31:64:ILE:C	31:31:65:TRP:CD1	2.96	0.44
38:88:137:TYR:CE1	47:H8:83:PRO:HG3	2.53	0.44
39:98:91:GLN:CD	39:98:91:GLN:N	2.74	0.44
41:B8:107:ASP:C	41:B8:111:ARG:CZ	2.90	0.44
42:C8:79:PHE:CD1	42:C8:79:PHE:C	2.96	0.44
42:C8:88:ILE:O	42:C8:88:ILE:HG22	2.17	0.44
44:E8:13:SER:O	44:E8:16:LYS:N	2.43	0.44
46:G8:89:PHE:CD1	46:G8:90:LEU:N	2.86	0.44
49:J8:94:LEU:HD23	49:J8:94:LEU:HA	1.81	0.44
1:1G:452:A:O2'	1:1G:453:A:O4'	2.31	0.44
1:1G:765:G:N1	1:1G:812:C:O2'	2.43	0.44
1:1G:938:A:N6	1:1G:939:G:C5	2.85	0.44
1:1G:987:G:H22	1:1G:1218:C:N4	2.16	0.44
1:1G:1000:A:H2'	1:1G:1000:A:N3	2.33	0.44
1:1G:1157:A:C2	1:1G:1181:G:H1'	2.53	0.44
11:2A:22:HIS:ND1	11:2A:29:ILE:HD11	2.31	0.44
19:AA:15:LEU:O	19:AA:19:VAL:HG23	2.18	0.44
26:14:141:A:H8	26:14:1408:C:H1'	1.81	0.44
26:14:376:C:H2'	26:14:377:C:C6	2.52	0.44
26:14:533:G:OP1	42:85:28:ARG:HD2	2.17	0.44
26:14:839:U:H2'	26:14:840:C:C6	2.53	0.44
26:14:1540:G:C6	26:14:1541:U:C4	3.05	0.44
26:14:1858:G:N2	26:14:1883:G:H2'	2.32	0.44
26:14:2346:A:C2	26:14:2383:G:C2	3.05	0.44
27:1J:12:C:OP2	27:1J:12:C:C6	2.71	0.44
29:19:72:LYS:HB3	29:19:72:LYS:HE2	1.91	0.44
31:39:132:VAL:C	31:39:134:GLY:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:69:79:ILE:HD11	34:69:140:LEU:HD11	1.99	0.44
37:35:55:ARG:HG2	37:35:56:SER:H	1.83	0.44
40:65:42:ASP:O	40:65:43:GLU:HB2	2.18	0.44
42:85:106:PHE:O	42:85:110:VAL:HG23	2.18	0.44
1:13:356:A:H2'	1:13:357:G:C8	2.51	0.44
1:13:452:A:O2'	16:7I:72:ARG:HG3	2.18	0.44
1:13:706:A:N7	1:13:707:C:H5	2.16	0.44
1:13:973:G:OP2	1:13:974:A:O2'	2.26	0.44
1:13:1133:G:N2	1:13:1141:C:C2	2.85	0.44
1:13:1348:U:C2	1:13:1349:A:C8	3.05	0.44
3:2E:18:TRP:NE1	14:5I:55:GLY:H	2.16	0.44
3:2E:30:ARG:HH11	3:2E:30:ARG:HG3	1.83	0.44
4:3E:135:LEU:HA	4:3E:136:PRO:HD2	1.82	0.44
4:3E:155:LEU:O	4:3E:157:LEU:N	2.51	0.44
6:5E:23:LYS:HB2	6:5E:23:LYS:HE2	1.61	0.44
9:8E:18:PHE:HB2	9:8E:62:TYR:HB3	1.99	0.44
13:4I:35:GLU:C	13:4I:38:GLY:H	2.25	0.44
13:4I:81:LEU:HD22	13:4I:88:ARG:HB3	1.99	0.44
16:7I:23:ASP:OD1	16:7I:25:ARG:NH1	2.51	0.44
22:1K:29:C:N4	22:1K:30:G:O6	2.51	0.44
24:3K:6:G:H2'	24:3K:7:A:C8	2.53	0.44
26:1H:330:A:O2'	26:1H:331:A:C8	2.56	0.44
26:1H:1404:C:O2'	26:1H:1405:U:H5'	2.18	0.44
26:1H:1671:U:OP2	59:1H:3573:HOH:O	2.21	0.44
26:1H:1790:C:H2'	26:1H:1791:A:C4	2.53	0.44
26:1H:1799:G:N2	29:11:155:LEU:HD12	2.32	0.44
26:1H:2077:A:H2'	26:1H:2078:C:C6	2.53	0.44
26:1H:2302:G:H2'	26:1H:2303:G:H8	1.83	0.44
26:1H:2416:C:H5"	37:78:65:ARG:HH12	1.82	0.44
29:11:130:ALA:C	29:11:131:LEU:HD12	2.42	0.44
31:31:64:ILE:HG13	31:31:65:TRP:NE1	2.32	0.44
31:31:148:LEU:HD23	31:31:148:LEU:HA	1.72	0.44
33:51:20:ALA:HB3	33:51:23:ARG:HB2	1.99	0.44
34:61:75:LEU:HD23	34:61:105:HIS:CG	2.53	0.44
44:E8:82:LEU:HD23	44:E8:82:LEU:HA	1.82	0.44
47:H8:153:SER:OG	47:H8:167:PRO:HB3	2.17	0.44
55:Q8:47:LYS:HA	55:Q8:47:LYS:HD3	1.30	0.44
55:Q8:53:PRO:HB3	55:Q8:56:GLU:H	1.81	0.44
1:1G:52:G:H2'	1:1G:53:A:O4'	2.18	0.44
1:1G:78:G:N3	1:1G:78:G:H2'	2.31	0.44
1:1G:814:A:H2'	1:1G:816:A:H5"	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1080:A:H5"	1:1G:1081:G:OP2	2.17	0.44
1:1G:1108:G:OP1	3:22:175:LEU:HD12	2.17	0.44
1:1G:1111:A:H8	1:1G:1111:A:O5'	2.00	0.44
1:1G:1364:U:O2'	1:1G:1365:G:H5'	2.18	0.44
5:42:76:ILE:HD12	5:42:77:PRO:HD2	1.99	0.44
11:2A:31:THR:HB	11:2A:42:TRP:HB3	2.00	0.44
24:3L:8:4SU:HN3	24:3L:14:A:H62	1.64	0.44
26:14:492:A:H8	26:14:492:A:O5'	2.01	0.44
26:14:1021:A:C5	26:14:1023:U:C5	3.06	0.44
26:14:1091:G:H2'	26:14:1092:C:C6	2.53	0.44
26:14:1111:A:O3'	26:14:1112:G:H4'	2.17	0.44
26:14:1297:C:H2'	26:14:1298:C:C6	2.53	0.44
26:14:1612:C:O3'	54:L5:5:TRP:HB3	2.18	0.44
26:14:2019:A:C6	26:14:2020:A:N7	2.86	0.44
26:14:2564:A:C5	26:14:2565:A:C6	3.05	0.44
26:14:2639:A:C2	26:14:2778:A:C8	3.06	0.44
29:19:76:PRO:HA	29:19:118:VAL:HG23	2.00	0.44
29:19:106:ILE:CD1	29:19:157:ARG:HB3	2.47	0.44
34:69:113:ARG:O	34:69:131:LYS:HD3	2.16	0.44
39:55:29:LEU:HD12	39:55:29:LEU:HA	1.61	0.44
43:95:44:LYS:O	43:95:46:VAL:N	2.45	0.44
50:G5:7:ARG:HB3	50:G5:7:ARG:HH11	1.83	0.44
52:I5:18:CYS:H	52:I5:19:GLY:HA2	1.82	0.44
1:13:243:A:H4'	1:13:244:U:H3'	2.00	0.44
1:13:945:G:C6	1:13:1337:G:C5	3.05	0.44
1:13:966:G:H5"	1:13:969:A:N7	2.33	0.44
1:13:1255:G:C2	1:13:1283:G:C2	3.06	0.44
2:1E:8:LYS:HG2	2:1E:9:GLU:N	2.26	0.44
5:4E:10:MET:HE3	5:4E:10:MET:HB3	1.69	0.44
5:4E:26:PHE:CD1	5:4E:26:PHE:N	2.86	0.44
5:4E:153:LYS:HD3	5:4E:154:GLY:N	2.32	0.44
6:5E:96:PRO:HB3	18:9I:30:ASP:CG	2.43	0.44
20:BI:41:ILE:H	20:BI:41:ILE:HG13	1.47	0.44
26:1H:274:G:H8	26:1H:274:G:H3'	1.82	0.44
26:1H:557:U:C2	26:1H:558:G:C8	3.06	0.44
26:1H:638:G:H2'	26:1H:639:U:O4'	2.18	0.44
26:1H:660:G:H21	37:78:12:ALA:HA	1.82	0.44
26:1H:811:U:H3'	37:78:22:GLY:HA2	2.00	0.44
26:1H:1155:A:H2'	26:1H:1156:A:H5"	2.00	0.44
26:1H:2580:U:H4'	30:21:130:GLY:HA3	2.00	0.44
26:1H:2846:G:C5	26:1H:2847:U:C4	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:144:ARG:HH11	30:21:144:ARG:HG3	1.82	0.44
31:31:155:LEU:HD13	31:31:174:VAL:HG22	2.00	0.44
32:41:83:ARG:O	32:41:86:MET:HG3	2.18	0.44
33:51:104:GLU:HG3	33:51:114:VAL:HG13	2.00	0.44
35:58:137:LYS:NZ	35:58:138:LEU:H	2.16	0.44
36:68:4:PRO:O	36:68:5:GLN:CB	2.66	0.44
37:78:15:ARG:HB3	37:78:16:ARG:HB2	1.99	0.44
41:B8:13:ARG:HD3	41:B8:13:ARG:N	2.33	0.44
45:F8:3:THR:HA	45:F8:6:ASP:CG	2.43	0.44
47:H8:128:VAL:CG2	47:H8:161:VAL:HG21	2.46	0.44
48:I8:75:LEU:HA	48:I8:75:LEU:HD23	1.54	0.44
50:K8:4:SER:C	50:K8:5:GLU:CD	2.86	0.44
52:M8:52:THR:OG1	52:M8:53:GLU:N	2.48	0.44
55:Q8:29:LYS:O	55:Q8:30:ARG:HG3	2.18	0.44
1:1G:827:U:H3	1:1G:872:A:H62	1.65	0.44
1:1G:830:G:C2	1:1G:831:U:O2	2.70	0.44
1:1G:1118:C:O4'	1:1G:1179:A:H1'	2.18	0.44
1:1G:1341:U:H3'	1:1G:1341:U:H6	1.81	0.44
1:1G:1403:C:H1'	1:1G:1500:A:N1	2.32	0.44
1:1G:1460:A:H2'	1:1G:1461:G:O4'	2.17	0.44
2:12:111:ARG:HG2	2:12:111:ARG:HH11	1.83	0.44
3:22:98:ASN:OD1	3:22:98:ASN:N	2.51	0.44
4:32:13:ARG:HD2	4:32:38:TYR:O	2.18	0.44
8:72:123:GLU:O	8:72:126:LYS:HB3	2.17	0.44
9:82:97:LYS:C	9:82:100:GLY:H	2.26	0.44
9:82:99:LEU:HB3	9:82:101:PHE:CD1	2.53	0.44
11:2A:65:ALA:O	11:2A:68:ALA:HB3	2.18	0.44
19:AA:41:VAL:HG12	19:AA:44:MET:H	1.83	0.44
56:2L:24:C:C2	56:2L:25:U:C5	3.05	0.44
26:14:111:A:C2	26:14:112:U:C2	3.06	0.44
26:14:479:A:H4'	26:14:480:A:OP1	2.17	0.44
26:14:857:C:H2'	26:14:858:U:C6	2.53	0.44
26:14:1024:G:C3'	26:14:1025:G:H5"	2.46	0.44
26:14:1111:A:H5'	33:59:3:ARG:HD3	1.99	0.44
26:14:1142:U:O2	26:14:1142:U:H2'	2.18	0.44
26:14:1248:G:C5	42:85:3:ARG:HB2	2.53	0.44
26:14:1248:G:N7	31:39:92:PRO:HG3	2.33	0.44
26:14:1472:A:H3'	26:14:1473:G:H8	1.82	0.44
26:14:1557:C:OP2	26:14:1558:A:O2'	2.28	0.44
26:14:1614:A:H61	44:A5:88:ARG:H	1.66	0.44
26:14:1827:C:H5'	26:14:1971:A:H4'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1J:65:C:C4	27:1J:108:C:C5	3.06	0.44
29:19:146:GLU:HG2	29:19:152:GLY:C	2.43	0.44
31:39:93:LYS:HD3	31:39:93:LYS:HA	1.85	0.44
31:39:178:PRO:HB3	31:39:198:ALA:CB	2.48	0.44
44:A5:19:LEU:HD12	44:A5:19:LEU:HA	1.71	0.44
44:A5:78:GLU:OE2	44:A5:99:ARG:HD2	2.17	0.44
1:13:139:G:O6	1:13:140:A:N6	2.50	0.44
1:13:560:U:O5'	1:13:560:U:H6	2.00	0.44
1:13:651:C:N4	1:13:753:A:OP2	2.50	0.44
1:13:947:G:H2'	1:13:948:C:C6	2.53	0.44
1:13:1128:C:O2'	1:13:1129:C:H5"	2.18	0.44
1:13:1349:A:H2'	1:13:1350:A:C8	2.52	0.44
5:4E:153:LYS:HD3	5:4E:154:GLY:H	1.82	0.44
9:8E:26:VAL:HG12	9:8E:61:ALA:HB3	2.00	0.44
13:4I:52:GLU:HA	13:4I:55:ARG:HB2	2.00	0.44
17:8I:88:TYR:CD1	17:8I:89:LEU:HD23	2.53	0.44
19:AI:42:PRO:HG3	52:M8:63:TYR:HE2	1.83	0.44
20:BI:41:ILE:HD12	20:BI:42:GLN:H	1.83	0.44
23:2K:53:G:C6	23:2K:54:G:N7	2.86	0.44
26:1H:270(E):G:C6	26:1H:270(F):U:C4	3.06	0.44
26:1H:318:C:H2'	26:1H:319:C:H6	1.83	0.44
26:1H:749:C:O2	26:1H:1618:A:H2'	2.18	0.44
26:1H:796:C:H2'	26:1H:797:C:H6	1.81	0.44
26:1H:987:G:P	59:1H:3939:HOH:O	2.76	0.44
26:1H:1069:A:H4'	26:1H:1070:A:H5"	1.99	0.44
26:1H:1374:G:C6	26:1H:1375:C:C4	3.06	0.44
26:1H:1485:G:C2	26:1H:1486:A:C4	3.06	0.44
26:1H:1600:C:H2'	26:1H:1601:G:C8	2.48	0.44
26:1H:2443:C:OP1	31:31:68:LYS:HD3	2.18	0.44
26:1H:2641:G:H1	26:1H:2773:C:H42	1.65	0.44
27:16:69:G:H2'	27:16:70:C:C6	2.52	0.44
27:16:116:G:H2'	27:16:117:G:O4'	2.18	0.44
31:31:64:ILE:HD12	31:31:64:ILE:O	2.18	0.44
33:51:164:TYR:N	33:51:167:GLU:OE1	2.47	0.44
35:58:43:THR:HA	35:58:44:PRO:HD2	1.70	0.44
40:A8:36:TYR:HD1	40:A8:36:TYR:N	2.15	0.44
47:H8:128:VAL:HA	47:H8:161:VAL:HG11	2.00	0.44
1:1G:8:A:C6	4:32:209:ARG:HB2	2.52	0.44
1:1G:363:A:C6	12:3A:31:PRO:HD2	2.52	0.44
1:1G:474:G:C2	1:1G:475:G:N7	2.86	0.44
1:1G:718:G:H5'	11:2A:117:ASN:CG	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:750:G:N3	15:6A:23:GLY:HA3	2.33	0.44
1:1G:830:G:H2'	1:1G:831:U:O4'	2.17	0.44
1:1G:1443:G:N2	41:75:119:LYS:HB2	2.32	0.44
2:12:100:GLY:HA2	2:12:103:THR:OG1	2.18	0.44
3:22:12:LEU:HD11	14:5A:51:GLY:HA2	2.00	0.44
4:32:53:ASP:OD2	5:42:107:ARG:NH1	2.51	0.44
4:32:56:VAL:O	4:32:59:ARG:N	2.51	0.44
6:52:50:TYR:OH	18:9A:74:ARG:O	2.34	0.44
8:72:38:ILE:HG12	8:72:41:ARG:NH1	2.32	0.44
10:1A:61:GLU:HG3	14:5A:58:LYS:NZ	2.33	0.44
26:14:270(P):C:H2'	26:14:270(Q):C:C6	2.53	0.44
26:14:363(C):G:H2'	26:14:363(D):G:H8	1.83	0.44
26:14:485:C:H42	26:14:495:G:H1	1.66	0.44
26:14:629:G:H5"	26:14:650:C:O2'	2.17	0.44
26:14:1040:C:N3	26:14:1115:G:N1	2.52	0.44
26:14:1116:C:H2'	26:14:1117:G:C8	2.51	0.44
26:14:1337:G:C4	26:14:1338:G:C8	3.06	0.44
26:14:1421:G:C2	26:14:1422:G:C8	3.06	0.44
26:14:2187:G:C6	26:14:2188:C:N3	2.85	0.44
26:14:2459:A:H5"	26:14:2460:U:OP2	2.18	0.44
26:14:2564:A:H2'	26:14:2565:A:C8	2.53	0.44
27:1J:34:U:O4	27:1J:44:G:H2'	2.18	0.44
29:19:147:LEU:HD23	29:19:155:LEU:HD11	1.99	0.44
29:19:176:ARG:HG2	29:19:176:ARG:HH11	1.83	0.44
30:29:5:LEU:HD23	30:29:51:PHE:HB2	2.00	0.44
30:29:11:MET:SD	30:29:24:THR:HG22	2.58	0.44
30:29:55:ASN:C	30:29:57:LYS:N	2.76	0.44
37:35:16:ARG:H	37:35:16:ARG:HG2	1.63	0.44
40:65:34:HIS:C	40:65:97:ARG:HH22	2.26	0.44
47:D5:158:PRO:HB2	47:D5:159:PRO:CD	2.48	0.44
52:I5:48:ARG:CZ	52:I5:51:ASP:HB3	2.47	0.44
55:M5:36:LYS:HE3	55:M5:36:LYS:HB2	1.68	0.44
1:13:563:A:C8	1:13:567:G:O4'	2.71	0.43
1:13:1117:G:O2'	9:8E:104:ARG:HG2	2.18	0.43
1:13:1157:A:H61	1:13:1178:G:H21	1.66	0.43
1:13:1290:G:C4	1:13:1291:G:C8	3.06	0.43
1:13:1350:A:C5	1:13:1351:U:C4	3.05	0.43
2:1E:87:ARG:HH11	2:1E:219:VAL:CG1	2.31	0.43
2:1E:146:GLN:OE1	2:1E:153:ARG:NH2	2.46	0.43
16:7I:36:ILE:H	16:7I:36:ILE:HG12	1.70	0.43
17:8I:48:GLU:H	17:8I:48:GLU:HG3	1.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8I:60:ILE:O	17:8I:62:SER:OG	2.36	0.43
22:1K:1:C:HO2'	22:1K:2:G:H8	1.64	0.43
26:1H:259:G:C2	26:1H:260:G:C8	3.05	0.43
26:1H:588:U:C2	26:1H:589:C:C5	3.05	0.43
26:1H:624:C:OP1	59:1H:4219:HOH:O	2.19	0.43
26:1H:880:G:O2'	26:1H:881:G:O5'	2.28	0.43
26:1H:1301:A:O2'	26:1H:1302:A:H3'	2.18	0.43
26:1H:1324:G:C4	26:1H:1328:G:O6	2.71	0.43
26:1H:1655:A:C8	26:1H:1656:C:C5	3.06	0.43
26:1H:1759:A:H4'	26:1H:2715:C:O4'	2.17	0.43
26:1H:1779:U:C6	26:1H:1783:A:N7	2.86	0.43
26:1H:2337:G:H2'	26:1H:2338:G:H8	1.83	0.43
26:1H:2582:G:H2'	26:1H:2582:G:N3	2.31	0.43
27:16:63:G:C6	27:16:64:C:C4	3.06	0.43
29:11:97:TYR:CE1	29:11:103:ARG:HG3	2.53	0.43
37:78:114:ILE:HD11	37:78:130:PHE:HD2	1.83	0.43
38:88:75:THR:HA	38:88:87:LYS:O	2.18	0.43
40:A8:32:LEU:HD23	40:A8:32:LEU:N	2.33	0.43
41:B8:5:ALA:O	41:B8:9:LEU:HB2	2.18	0.43
41:B8:6:LEU:HA	41:B8:9:LEU:CB	2.41	0.43
41:B8:29:ARG:HG3	41:B8:46:GLU:HB2	1.99	0.43
47:H8:45:ASP:OD1	47:H8:49:ARG:HD2	2.18	0.43
53:N8:50:GLY:N	53:N8:56:LYS:HG3	2.29	0.43
55:Q8:8:LYS:N	55:Q8:8:LYS:HD2	2.33	0.43
1:1G:289:G:H1	1:1G:311:C:H42	1.66	0.43
1:1G:437:U:C5	1:1G:438:G:C5	3.06	0.43
1:1G:591:U:H2'	1:1G:592:G:H8	1.75	0.43
1:1G:631:G:H5"	1:1G:632:A:C8	2.53	0.43
1:1G:949:A:N1	1:1G:1233:G:C4	2.86	0.43
1:1G:965:A:C2	1:1G:969:A:C2	3.06	0.43
1:1G:1027:C:N4	1:1G:1033:G:O6	2.51	0.43
1:1G:1167:A:C6	1:1G:1169:A:C6	3.06	0.43
1:1G:1233:G:H2'	1:1G:1234:C:C6	2.53	0.43
1:1G:1273:G:H3'	1:1G:1274:G:C8	2.49	0.43
1:1G:1300:G:HO2'	1:1G:1301:U:P	2.40	0.43
1:1G:1348:U:C2	1:1G:1349:A:C8	3.07	0.43
1:1G:1401:G:C2	1:1G:1402:C:H1'	2.53	0.43
1:1G:1494:G:C2	1:1G:1495:U:C6	3.06	0.43
2:12:80:ILE:O	2:12:80:ILE:HG13	2.17	0.43
2:12:136:VAL:O	2:12:139:LYS:HB3	2.17	0.43
3:22:72:LYS:NZ	3:22:75:VAL:HG23	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:153:ARG:NH1	4:32:181:MET:HB2	2.32	0.43
5:42:24:ARG:CZ	5:42:24:ARG:HB3	2.47	0.43
8:72:92:ARG:HB3	8:72:94:TYR:CE2	2.52	0.43
12:3A:110:VAL:CG2	12:3A:120:TYR:HB3	2.48	0.43
15:6A:18:PHE:CZ	15:6A:21:ASP:HB2	2.53	0.43
17:8A:82:MET:O	17:8A:86:GLU:HG3	2.17	0.43
56:2L:19:G:C6	56:2L:59:A:C6	3.05	0.43
26:14:214:G:OP1	26:14:214:G:H4'	2.18	0.43
26:14:270(E):G:C2	26:14:270(F):U:C2	3.06	0.43
26:14:425:G:H2'	26:14:426:C:H6	1.82	0.43
26:14:729:G:OP2	29:19:13:ARG:NH1	2.50	0.43
26:14:864:G:C6	26:14:865:C:N4	2.85	0.43
26:14:1104:C:H2'	26:14:1105:U:C5	2.53	0.43
26:14:1129:A:N6	26:14:2491:U:OP1	2.46	0.43
26:14:1160:G:C6	26:14:1161:C:C4	3.06	0.43
26:14:1514:U:O2'	26:14:1515:C:H5'	2.18	0.43
26:14:1515:C:H2'	26:14:1516:U:C6	2.53	0.43
26:14:2176:A:H2'	26:14:2177:C:H6	1.83	0.43
26:14:2341:G:C6	26:14:2342:C:C4	3.06	0.43
26:14:2389:G:H5"	26:14:2390:U:C5'	2.47	0.43
26:14:2406:U:H6	26:14:2406:U:H2'	1.62	0.43
29:19:11:PRO:C	29:19:13:ARG:N	2.76	0.43
32:49:10:LYS:O	32:49:15:VAL:HG23	2.18	0.43
38:45:75:THR:HB	38:45:86:GLY:HA3	2.00	0.43
40:65:12:PHE:O	40:65:16:ASN:ND2	2.51	0.43
42:85:50:ARG:HH22	43:95:72:VAL:HG23	1.82	0.43
43:95:5:VAL:HB	43:95:37:VAL:HG12	2.00	0.43
43:95:43:GLU:O	43:95:45:THR:OG1	2.35	0.43
43:95:44:LYS:HG2	43:95:45:THR:HG23	2.00	0.43
43:95:48:GLY:HA3	43:95:52:VAL:N	2.33	0.43
45:B5:24:GLY:HA3	45:B5:82:GLN:NE2	2.33	0.43
47:D5:160:GLY:O	47:D5:162:GLU:HG3	2.18	0.43
53:J5:16:ARG:O	53:J5:20:ARG:HG3	2.18	0.43
1:13:392:G:OP1	16:7I:13:HIS:N	2.44	0.43
1:13:598:U:H2'	1:13:599:C:H6	1.81	0.43
1:13:658:G:H2'	1:13:659:U:C6	2.52	0.43
1:13:678:U:H2'	1:13:679:C:C6	2.53	0.43
1:13:774:G:OP1	29:11:202:LYS:NZ	2.51	0.43
1:13:1189:C:P	10:1I:51:ARG:HH22	2.41	0.43
1:13:1363:A:H1'	1:13:1365:G:N7	2.32	0.43
2:1E:67:THR:HG21	2:1E:155:LEU:CD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2E:131:ARG:HD3	3:2E:166:GLU:OE2	2.18	0.43
4:3E:30:LYS:O	4:3E:31:CYS:C	2.61	0.43
8:7E:35:ILE:HG22	8:7E:36:LEU:N	2.32	0.43
11:2I:112:THR:HA	11:2I:113:PRO:HD3	1.68	0.43
21:1F:6:ARG:H	21:1F:6:ARG:HG3	1.40	0.43
26:1H:720:C:H2'	26:1H:721:C:C6	2.53	0.43
26:1H:2173:A:C8	26:1H:2174:C:C5	3.05	0.43
26:1H:2431:U:H3'	59:1H:3843:HOH:O	2.17	0.43
26:1H:2864:G:C6	26:1H:2865:U:C4	3.06	0.43
28:71:59:ARG:HD2	28:71:164:ARG:NE	2.33	0.43
28:71:181:PRO:HB2	28:71:184:LYS:HE2	2.00	0.43
29:11:132:PRO:HD3	29:11:190:TYR:CZ	2.52	0.43
32:41:36:LYS:O	32:41:160:VAL:HG23	2.18	0.43
34:61:9:LEU:HD13	34:61:9:LEU:HA	1.82	0.43
44:E8:29:LEU:HD23	44:E8:69:LEU:HD11	2.00	0.43
1:1G:857:C:H2'	1:1G:858:G:O4'	2.18	0.43
1:1G:957:U:H1'	1:1G:960:U:H5	1.79	0.43
1:1G:1030:C:H2'	1:1G:1031:G:C4	2.53	0.43
1:1G:1372:U:OP1	9:82:72:GLY:N	2.51	0.43
2:12:178:ARG:NH2	8:72:68:ARG:HH22	2.17	0.43
3:22:11:ARG:O	3:22:14:ILE:O	2.36	0.43
7:62:47:CYS:O	7:62:50:ILE:HB	2.18	0.43
8:72:14:ARG:O	8:72:18:ARG:HB2	2.18	0.43
18:9A:56:THR:OG1	18:9A:57:GLY:N	2.51	0.43
56:2L:20:G:OP1	56:2L:61:U:N3	2.51	0.43
56:2L:56:PSU:O4	56:2L:58:A:C8	2.71	0.43
25:4L:15:A:H8	25:4L:15:A:O5'	2.01	0.43
26:14:488:G:O2'	26:14:491:G:N7	2.46	0.43
26:14:746:A:HO2'	26:14:2611:U:HO2'	1.65	0.43
26:14:1090:U:C5	26:14:1091:G:C4	3.06	0.43
26:14:1277:G:O2'	39:55:24:GLN:HG2	2.19	0.43
26:14:1279:G:H4'	39:55:31:HIS:CD2	2.53	0.43
26:14:1568:G:O3'	29:19:59:LYS:HD3	2.18	0.43
26:14:1638:C:H1'	26:14:2698:U:O2'	2.19	0.43
26:14:1651:G:OP1	39:55:40:LYS:HE3	2.18	0.43
26:14:1710:C:H4'	26:14:2858:C:O2	2.17	0.43
26:14:1717:G:N2	26:14:1742:C:N3	2.45	0.43
26:14:2420:C:N4	55:M5:31:HIS:HB3	2.33	0.43
26:14:2536:G:C6	26:14:2537:U:C4	3.06	0.43
26:14:2784:C:H1'	30:29:37:ARG:NH2	2.32	0.43
26:14:2882:A:OP1	39:55:96:ARG:NE	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1J:40:U:H3'	27:1J:41:U:H5'	1.99	0.43
29:19:182:LEU:H	29:19:272:ALA:CB	2.26	0.43
33:59:6:ARG:HG2	33:59:65:HIS:ND1	2.33	0.43
34:69:2:LYS:HE3	34:69:2:LYS:HB3	1.55	0.43
34:69:71:ILE:HG23	34:69:72:LEU:HG	2.00	0.43
38:45:64:ILE:HA	38:45:106:VAL:HG12	2.00	0.43
41:75:45:PHE:CE2	41:75:74:ARG:HB2	2.53	0.43
45:B5:21:PHE:HZ	45:B5:92:LEU:HD22	1.83	0.43
1:13:52:G:H2'	1:13:53:A:C8	2.51	0.43
1:13:95:G:H3'	1:13:96:G:H8	1.83	0.43
1:13:120:A:H8	1:13:120:A:H3'	1.83	0.43
1:13:246:A:C6	1:13:279:A:C2	3.06	0.43
1:13:545:C:O2'	1:13:549:C:OP1	2.36	0.43
1:13:902:G:H2'	1:13:903:G:H8	1.82	0.43
1:13:990:C:C2	1:13:991:U:C5	3.06	0.43
1:13:1014:A:C2	19:AI:34:TRP:CE2	3.06	0.43
1:13:1530:G:H5"	1:13:1530:G:H8	1.82	0.43
2:1E:21:ARG:C	2:1E:23:ARG:H	2.26	0.43
3:2E:3:ASN:C	3:2E:4:LYS:HG2	2.43	0.43
3:2E:67:THR:HG22	3:2E:69:HIS:CE1	2.53	0.43
13:4I:3:ARG:HH12	13:4I:7:VAL:HG22	1.83	0.43
14:5I:58:LYS:HE3	14:5I:58:LYS:HB2	1.73	0.43
22:1K:42:C:H2'	22:1K:43:G:C8	2.53	0.43
24:3K:8:4SU:H6	24:3K:8:4SU:H2'	1.81	0.43
26:1H:115:C:O2'	26:1H:116:C:H5'	2.18	0.43
26:1H:155:C:N4	26:1H:171:G:H1	2.16	0.43
26:1H:397:G:H1'	26:1H:2231:C:O2'	2.19	0.43
26:1H:620:G:H4'	26:1H:621:A:C5'	2.33	0.43
26:1H:654(J):A:H3'	26:1H:654(J):A:N3	2.33	0.43
26:1H:662:G:H1'	37:78:14:LYS:HD3	1.99	0.43
26:1H:1228:G:H5"	26:1H:1228:G:C8	2.53	0.43
26:1H:1401:G:C5	26:1H:1402:C:C5	3.06	0.43
26:1H:2283:C:N3	26:1H:2389:G:C2	2.87	0.43
26:1H:2391:G:O6	26:1H:2425:A:H8	2.00	0.43
26:1H:2543:G:H2'	26:1H:2544:G:C8	2.53	0.43
26:1H:2702:U:H6	26:1H:2702:U:OP1	2.01	0.43
27:16:31:C:H2'	27:16:32:C:C6	2.52	0.43
29:11:67:PHE:HB3	29:11:153:ALA:HB3	2.01	0.43
30:21:77:ILE:C	30:21:79:ARG:H	2.24	0.43
33:51:94:TYR:N	33:51:94:TYR:CD1	2.86	0.43
34:61:79:ILE:HA	34:61:80:PRO:HD2	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:96:THR:C	37:78:98:GLU:H	2.26	0.43
39:98:21:TYR:N	39:98:21:TYR:CD1	2.86	0.43
40:A8:99:LYS:O	40:A8:103:GLU:HG2	2.17	0.43
43:D8:35:LEU:C	43:D8:37:VAL:H	2.25	0.43
1:1G:138:G:O6	1:1G:225:C:N4	2.42	0.43
1:1G:233:C:H2'	1:1G:234:C:C6	2.53	0.43
1:1G:848:C:H2'	1:1G:849:C:C6	2.52	0.43
1:1G:872:A:C2	1:1G:874:G:C8	3.06	0.43
1:1G:975:A:H4'	1:1G:976:G:H5"	2.00	0.43
1:1G:1240:U:N3	7:62:32:ARG:HG3	2.33	0.43
2:12:54:THR:O	2:12:58:ILE:HG12	2.18	0.43
2:12:166:ASP:CG	2:12:169:LYS:HB2	2.44	0.43
4:32:33:MET:C	4:32:35:ARG:N	2.76	0.43
8:72:89:PRO:HA	8:72:92:ARG:NE	2.34	0.43
11:2A:73:MET:HA	11:2A:77:MET:H	1.84	0.43
13:4A:79:LYS:HD3	13:4A:82:MET:SD	2.59	0.43
21:1B:2:GLY:O	21:1B:5:ASP:N	2.34	0.43
56:2L:4:G:H1	56:2L:70:C:H42	1.65	0.43
26:14:606:U:H4'	26:14:658:C:H4'	1.99	0.43
26:14:712:G:H8	26:14:712:G:O5'	2.01	0.43
26:14:795:C:H2'	26:14:796:C:C6	2.53	0.43
26:14:844:C:C5	26:14:845:G:C6	3.06	0.43
26:14:921:G:C6	26:14:922:U:C4	3.07	0.43
26:14:1171:G:H1	26:14:1178:C:H42	1.67	0.43
26:14:1259:G:C2	26:14:1260:G:C4	3.06	0.43
26:14:1313:U:H2'	26:14:1610:A:C2	2.54	0.43
26:14:1401:G:H2'	26:14:1402:C:H6	1.82	0.43
26:14:2161:C:H2'	26:14:2162:G:H5'	1.99	0.43
26:14:2184:G:C2	26:14:2185:C:C2	3.07	0.43
26:14:2459:A:C5	26:14:2460:U:C5	3.06	0.43
32:49:8:LYS:O	32:49:12:TYR:HD1	2.00	0.43
41:75:42:ILE:HD12	41:75:42:ILE:HA	1.87	0.43
51:H5:4:LEU:O	51:H5:37:LEU:N	2.35	0.43
1:13:250:A:H4'	1:13:251:G:C5'	2.48	0.43
1:13:280:C:H4'	1:13:281:G:OP2	2.18	0.43
1:13:398:C:H2'	1:13:399:G:C8	2.53	0.43
1:13:425:G:C6	1:13:426:G:C5	3.06	0.43
1:13:580:U:H2'	1:13:581:G:O4'	2.17	0.43
1:13:587:G:C2	1:13:755:G:C5	3.06	0.43
1:13:639:G:N3	1:13:640:A:C8	2.87	0.43
1:13:643:C:H2'	1:13:644:G:C8	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:922:G:C2	1:13:923:A:C4	3.06	0.43
1:13:965:A:C2	1:13:969:A:C2	3.06	0.43
1:13:1086:U:H2'	1:13:1087:G:O4'	2.19	0.43
3:2E:177:THR:O	3:2E:180:ALA:HB2	2.17	0.43
4:3E:4:TYR:O	4:3E:5:ILE:HG13	2.18	0.43
8:7E:19:VAL:HB	8:7E:21:LYS:HD3	2.00	0.43
13:4I:15:VAL:HA	13:4I:45:VAL:HG12	2.00	0.43
16:7I:26:ARG:HE	16:7I:31:LYS:HB3	1.84	0.43
17:8I:43:LEU:HD12	17:8I:68:ARG:HG2	2.00	0.43
18:9I:26:LEU:HD13	18:9I:42:ARG:NH2	2.33	0.43
22:1K:14:A:C5	22:1K:23:G:C2	3.06	0.43
24:3K:25:C:N4	24:3K:26:A:C8	2.87	0.43
24:3K:38:A:H2'	24:3K:39:PSU:O4'	2.17	0.43
26:1H:38:A:H2'	26:1H:39:C:C6	2.53	0.43
26:1H:300:A:H2'	26:1H:334:C:O2'	2.19	0.43
26:1H:414:C:H2'	26:1H:415:A:C8	2.53	0.43
26:1H:528:A:N1	26:1H:2042:A:H2'	2.34	0.43
26:1H:890:A:H4'	26:1H:890:A:OP1	2.18	0.43
26:1H:996:A:C2	26:1H:997:G:C8	3.07	0.43
26:1H:1009:A:OP2	59:1H:4112:HOH:O	2.21	0.43
26:1H:1142(A):A:C4	26:1H:1144:G:C8	3.07	0.43
26:1H:2310:A:N6	32:41:79:ASN:HB2	2.33	0.43
26:1H:2583:G:C2'	26:1H:2584:U:H5'	2.48	0.43
28:71:10:LEU:HD13	28:71:13:LYS:CE	2.49	0.43
29:11:89:SER:HB2	29:11:159:ALA:H	1.84	0.43
29:11:206:LEU:O	29:11:211:ARG:HD3	2.19	0.43
30:21:103:ASP:OD1	30:21:201:THR:HG23	2.19	0.43
31:31:125:LEU:HD21	31:31:199:TRP:HB2	2.00	0.43
32:41:99:MET:HE3	32:41:99:MET:HB2	1.80	0.43
33:51:4:ILE:HG21	33:51:6:ARG:HD3	2.00	0.43
35:58:120:LEU:HD21	35:58:122:VAL:HG23	2.01	0.43
36:68:64:ARG:O	36:68:82:ASN:HA	2.18	0.43
36:68:66:LYS:NZ	36:68:80:ASP:O	2.51	0.43
37:78:6:LEU:O	37:78:7:ARG:HG2	2.18	0.43
43:D8:67:GLY:O	43:D8:88:ARG:HG2	2.18	0.43
47:H8:129:SER:H	47:H8:161:VAL:HG11	1.83	0.43
1:1G:136:C:H1'	16:7A:1:MET:HE3	2.00	0.43
1:1G:165:C:H2'	1:1G:166:G:H8	1.82	0.43
1:1G:975:A:H5"	1:1G:1363:A:N6	2.33	0.43
1:1G:1149:C:H2'	1:1G:1150:U:C6	2.53	0.43
1:1G:1158:C:N3	1:1G:1160:G:C8	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1320:C:C4	1:1G:1321:C:N3	2.87	0.43
1:1G:1345:U:OP1	1:1G:1345:U:H3'	2.19	0.43
1:1G:1449:C:H3'	1:1G:1450:U:H4'	2.00	0.43
2:12:197:VAL:HB	2:12:200:ILE:HG23	1.99	0.43
3:22:22:TRP:CH2	3:22:32:LEU:HB3	2.53	0.43
5:42:34:VAL:HB	5:42:62:ALA:HB1	1.99	0.43
7:62:107:ALA:CB	7:62:134:ALA:HB2	2.48	0.43
15:6A:43:LEU:HD23	15:6A:43:LEU:HA	1.66	0.43
19:AA:41:VAL:H	19:AA:44:MET:HB2	1.83	0.43
20:BA:50:GLU:HA	20:BA:100:ILE:HG12	2.00	0.43
20:BA:72:LEU:HG	20:BA:73:HIS:H	1.82	0.43
26:14:17:G:H2'	26:14:18:C:C6	2.53	0.43
26:14:208:C:H2'	26:14:209:C:H6	1.83	0.43
26:14:300:A:H2'	26:14:334:C:O2'	2.18	0.43
26:14:439:G:N2	26:14:440:G:N3	2.66	0.43
26:14:518:G:H2'	26:14:518:G:N3	2.33	0.43
26:14:533:G:N3	42:85:45:TYR:CE2	2.87	0.43
26:14:564:C:H5"	43:95:75:PHE:HZ	1.84	0.43
26:14:918:A:N3	27:1J:80:U:O2'	2.49	0.43
26:14:1200:C:P	59:14:3730:HOH:O	2.75	0.43
26:14:1221:C:H2'	26:14:1222:C:C6	2.53	0.43
26:14:1344:G:O2'	26:14:1385:G:H2'	2.19	0.43
26:14:1368:G:OP1	54:L5:28:ARG:NH2	2.51	0.43
26:14:1580:A:H2'	26:14:1581:G:O4'	2.18	0.43
26:14:1786:A:C2	26:14:2606:C:H1'	2.52	0.43
26:14:1952:A:N6	26:14:1953:A:N1	2.66	0.43
26:14:2228:G:C5	26:14:2229:C:C4	3.06	0.43
26:14:2588:G:P	59:14:3486:HOH:O	2.76	0.43
27:1J:56:G:H4'	27:1J:57:A:H8	1.81	0.43
29:19:176:ARG:HA	29:19:182:LEU:HD22	2.00	0.43
31:39:52:LYS:O	31:39:88:VAL:HG13	2.19	0.43
33:59:27:LYS:HD2	33:59:32:GLU:CG	2.49	0.43
42:85:82:GLY:HA3	42:85:113:ALA:HB1	2.00	0.43
43:95:1:MET:HE2	43:95:1:MET:HB3	1.81	0.43
46:C5:8:LYS:HB2	46:C5:11:ASP:OD2	2.18	0.43
46:C5:90:LEU:HA	46:C5:91:GLU:HA	1.73	0.43
52:I5:6:HIS:HA	52:I5:7:PRO:HD3	1.91	0.43
1:13:178:C:C4	1:13:179:A:N7	2.87	0.43
1:13:553:A:H5"	12:3I:24:VAL:HG21	2.00	0.43
1:13:774:G:H2'	1:13:775:G:C8	2.51	0.43
1:13:1130:A:O2'	9:8E:3:GLN:NE2	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:5E:25:ILE:HA	6:5E:25:ILE:HD13	1.81	0.43
15:6I:82:ILE:O	15:6I:85:LEU:N	2.52	0.43
19:AI:28:LYS:HB3	19:AI:47:HIS:HE1	1.83	0.43
20:BI:67:ALA:HA	20:BI:72:LEU:O	2.18	0.43
24:3K:2:C:N3	24:3K:3:C:N4	2.67	0.43
26:1H:425:G:N2	26:1H:426:C:C2	2.87	0.43
26:1H:696:G:O2'	26:1H:697:C:H5'	2.17	0.43
26:1H:1203:G:C3'	26:1H:1204:A:H5"	2.42	0.43
26:1H:1204:A:C2	26:1H:1241:A:N1	2.87	0.43
26:1H:2228:G:C5	26:1H:2229:C:C4	3.06	0.43
27:16:29:A:H2'	27:16:30:C:O4'	2.18	0.43
29:11:205:VAL:O	29:11:206:LEU:C	2.61	0.43
30:21:11:MET:HE2	30:21:11:MET:HB3	1.70	0.43
31:31:32:LEU:HD13	31:31:32:LEU:O	2.18	0.43
31:31:120:GLU:HB3	31:31:122:LYS:HG2	2.00	0.43
34:61:79:ILE:HA	34:61:79:ILE:HD13	1.64	0.43
34:61:104:GLN:HG2	34:61:105:HIS:CD2	2.54	0.43
35:58:15:LEU:HD12	35:58:136:GLU:HG2	1.99	0.43
35:58:133:GLN:HG2	35:58:134:ARG:N	2.29	0.43
38:88:5:ARG:O	38:88:6:ARG:C	2.61	0.43
42:C8:88:ILE:C	42:C8:90:VAL:H	2.25	0.43
43:D8:49:THR:O	43:D8:50:PRO:C	2.59	0.43
47:H8:23:LYS:HD3	47:H8:40:ASP:HA	2.01	0.43
47:H8:28:MET:O	47:H8:34:ASN:HA	2.18	0.43
1:1G:195:A:N7	1:1G:196:A:C6	2.86	0.43
1:1G:257:G:H2'	1:1G:258:G:O4'	2.19	0.43
1:1G:397:A:O2'	1:1G:398:C:H5"	2.18	0.43
1:1G:637:G:C2	1:1G:638:G:C4	3.07	0.43
1:1G:1072:G:H2'	1:1G:1073:U:C6	2.53	0.43
1:1G:1167:A:H2'	1:1G:1169:A:O4'	2.18	0.43
1:1G:1276:G:C6	1:1G:1277:C:C4	3.07	0.43
1:1G:1386:G:H2'	1:1G:1387:G:C8	2.53	0.43
1:1G:1443:G:N2	26:14:2864:G:OP1	2.50	0.43
7:62:50:ILE:HD13	7:62:50:ILE:HA	1.80	0.43
9:82:23:ASN:ND2	9:82:60:ASP:OD1	2.50	0.43
9:82:38:GLN:O	9:82:38:GLN:NE2	2.51	0.43
10:1A:81:THR:O	10:1A:85:LEU:HG	2.18	0.43
13:4A:108:ARG:HD3	13:4A:114:ARG:HG2	2.01	0.43
18:9A:25:THR:HB	18:9A:26:LEU:HD13	2.01	0.43
24:3L:5:G:H2'	24:3L:6:G:C8	2.53	0.43
24:3L:10:G:N2	24:3L:26:A:H1'	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:244:A:C2	26:14:255:A:C4	3.07	0.43
26:14:768:G:C4	26:14:769:G:C8	3.06	0.43
26:14:1328:G:H2'	26:14:1330:C:C5	2.53	0.43
26:14:2275:C:H5'	26:14:2275:C:C6	2.52	0.43
27:1J:58:A:N7	27:1J:59:A:C5	2.87	0.43
29:19:158:ALA:HB3	29:19:161:THR:HG21	2.00	0.43
31:39:70:THR:OG1	31:39:71:GLY:N	2.51	0.43
32:49:105:LYS:NZ	52:I5:26:SER:HA	2.34	0.43
32:49:145:THR:O	32:49:146:TYR:HB3	2.18	0.43
33:59:136:ILE:HD12	33:59:137:ASP:HB2	2.01	0.43
34:69:97:ILE:O	34:69:100:ALA:HB3	2.17	0.43
37:35:38:GLN:O	37:35:38:GLN:HG2	2.18	0.43
37:35:68:GLN:HE21	55:M5:12:LYS:HG2	1.84	0.43
42:85:8:VAL:HG11	42:85:12:ARG:NH2	2.33	0.43
42:85:30:LYS:HD3	42:85:30:LYS:N	2.33	0.43
48:E5:72:ARG:CB	48:E5:75:LEU:HB2	2.42	0.43
1:13:120:A:H3'	1:13:120:A:C8	2.54	0.43
1:13:128:G:H4'	17:8I:3:LYS:HG2	2.01	0.43
1:13:146:G:C2	1:13:147:G:C5	3.07	0.43
1:13:390:C:O3'	16:7I:28:ARG:NH2	2.52	0.43
1:13:741:G:H2'	1:13:742:G:O4'	2.18	0.43
1:13:983:A:H3'	1:13:983:A:N3	2.34	0.43
1:13:1265:G:H2'	1:13:1266:G:O4'	2.19	0.43
1:13:1468:A:H8	1:13:1468:A:O5'	2.02	0.43
1:13:1507:A:O3'	59:13:1803:HOH:O	2.21	0.43
1:13:1525:G:P	11:2I:120:ARG:HH22	2.41	0.43
2:1E:98:LEU:HB2	2:1E:101:MET:HE3	1.99	0.43
2:1E:111:ARG:HH11	2:1E:111:ARG:CG	2.23	0.43
2:1E:166:ASP:C	2:1E:168:THR:N	2.76	0.43
3:2E:85:ARG:NH2	3:2E:88:ARG:HD2	2.33	0.43
5:4E:73:ASN:O	5:4E:73:ASN:ND2	2.37	0.43
6:5E:60:PHE:C	6:5E:61:LEU:HD12	2.44	0.43
8:7E:107:LEU:HD23	8:7E:107:LEU:HA	1.77	0.43
10:1I:63:PHE:HB3	14:5I:57:ARG:O	2.18	0.43
17:8I:55:ASP:HA	17:8I:79:SER:HA	2.00	0.43
22:1K:53:G:O2'	22:1K:54:G:H5'	2.19	0.43
26:1H:274:G:H3'	26:1H:274:G:C8	2.53	0.43
26:1H:378:C:H2'	26:1H:379:G:H5'	2.00	0.43
26:1H:583:G:OP2	42:C8:10:ARG:HD2	2.18	0.43
26:1H:630:G:H4'	26:1H:640:C:H4'	2.01	0.43
26:1H:959:A:C6	26:1H:960:A:N1	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1149:G:H2'	26:1H:1150:C:C6	2.54	0.43
26:1H:1641:A:H2'	26:1H:1642:G:O4'	2.18	0.43
26:1H:1950:G:N2	59:1H:3954:HOH:O	2.51	0.43
26:1H:2167:U:O2'	26:1H:2168:G:H4'	2.17	0.43
26:1H:2261:C:O2'	26:1H:2262:U:H5'	2.18	0.43
26:1H:2358:G:C5	26:1H:2359:C:C5	3.06	0.43
26:1H:2422:A:C5	26:1H:2424:C:C4	3.07	0.43
26:1H:2793:G:H2'	26:1H:2794:C:C6	2.53	0.43
26:1H:2849:U:O4	41:B8:23:ARG:NH2	2.52	0.43
29:11:118:VAL:HG22	29:11:119:ALA:N	2.34	0.43
29:11:217:ARG:H	29:11:217:ARG:HG2	1.67	0.43
31:31:201:VAL:O	31:31:205:ARG:N	2.46	0.43
33:51:26:VAL:HG21	33:51:75:ALA:HB1	2.00	0.43
39:98:4:LEU:HD13	39:98:4:LEU:HA	1.58	0.43
41:B8:95:ARG:HA	41:B8:95:ARG:HD2	1.87	0.43
42:C8:105:VAL:HG22	43:D8:45:THR:HG21	2.00	0.43
43:D8:6:LYS:O	43:D8:6:LYS:HG3	2.18	0.43
44:E8:9:TYR:H	44:E8:102:HIS:HD2	1.64	0.43
44:E8:74:ALA:HA	44:E8:104:THR:O	2.18	0.43
46:G8:79:CYS:HB2	46:G8:80:GLY:H	1.69	0.43
48:I8:49:LYS:HE3	48:I8:82:ARG:NH1	2.33	0.43
1:1G:429:U:OP1	4:32:13:ARG:NH2	2.41	0.43
1:1G:552:U:H4'	12:3A:86:ARG:HG2	2.01	0.43
1:1G:617:G:C2	1:1G:618:C:C4	3.05	0.43
3:22:59:ARG:O	10:1A:93:GLY:HA3	2.18	0.43
4:32:15:GLU:HG2	4:32:59:ARG:HH21	1.83	0.43
8:72:64:LYS:O	8:72:79:VAL:HB	2.19	0.43
19:AA:7:LYS:HE2	19:AA:10:PHE:HE2	1.82	0.43
24:3L:27:G:N1	24:3L:28:G:O6	2.51	0.43
26:14:264:C:O2'	26:14:265:A:H2'	2.19	0.43
26:14:270(D):C:O2	26:14:270(V):G:N2	2.44	0.43
26:14:455:C:N3	26:14:473:G:H5'	2.33	0.43
26:14:882:G:H2'	26:14:883:G:C8	2.47	0.43
26:14:1022:G:C6	26:14:1140:C:C4	3.07	0.43
26:14:1422:G:C1'	26:14:1495:A:H61	2.31	0.43
26:14:1576:U:C2	26:14:1577:C:C5	3.07	0.43
26:14:1788:C:H2'	26:14:1789:A:C8	2.53	0.43
26:14:1939:U:OP1	26:14:2604:U:O2'	2.34	0.43
26:14:2002:G:C6	59:14:3793:HOH:O	2.70	0.43
26:14:2010:G:H5"	44:A5:42:ARG:HB2	2.01	0.43
26:14:2460:U:H2'	26:14:2461:C:H6	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2511:U:H2'	26:14:2512:C:C6	2.54	0.43
26:14:2516:G:C6	26:14:2517:C:C4	3.06	0.43
26:14:2535:G:N3	26:14:2536:G:C8	2.87	0.43
26:14:2745:C:H4'	33:59:142:GLY:C	2.43	0.43
26:14:2749:A:OP2	26:14:2750:A:H5"	2.19	0.43
26:14:2808:U:O2'	26:14:2809:A:H5'	2.18	0.43
29:19:248:SER:HG	29:19:252:TRP:CD1	2.37	0.43
33:59:59:ARG:O	33:59:63:SER:OG	2.31	0.43
37:35:13:ASN:O	37:35:15:ARG:N	2.52	0.43
37:35:52:GLU:CD	37:35:57:THR:HA	2.44	0.43
38:45:25:ASP:OD2	38:45:102:VAL:N	2.51	0.43
38:45:29:PHE:HB3	38:45:30:GLY:H	1.55	0.43
40:65:48:LEU:HA	40:65:48:LEU:HD13	1.66	0.43
41:75:26:ASP:CG	41:75:120:ARG:HH22	2.25	0.43
41:75:91:ARG:HG3	41:75:121:ILE:HG12	1.99	0.43
44:A5:42:ARG:C	44:A5:44:ALA:HB3	2.44	0.43
53:J5:3:LYS:O	53:J5:4:HIS:C	2.59	0.43
1:13:6:G:N2	5:4E:98:THR:HG23	2.33	0.43
1:13:150:C:C2	1:13:151:A:C8	3.07	0.43
1:13:177:C:P	20:BI:65:LYS:NZ	2.91	0.43
1:13:346:G:H3'	1:13:346:G:N3	2.34	0.43
1:13:501:C:O4'	1:13:548:G:N2	2.52	0.43
1:13:1120:G:C2	1:13:1154:G:C2	3.06	0.43
1:13:1391:U:H2'	1:13:1392:G:C8	2.53	0.43
1:13:1399:C:C2	1:13:1401:G:C5	3.07	0.43
2:1E:237:ALA:O	2:1E:239:VAL:HG23	2.18	0.43
4:3E:99:SER:HB3	4:3E:139:ARG:HG2	2.01	0.43
5:4E:36:ASP:CG	5:4E:38:GLN:HB2	2.43	0.43
5:4E:90:VAL:HG12	5:4E:121:LYS:O	2.18	0.43
13:4I:36:LYS:HB3	13:4I:59:TYR:CE2	2.53	0.43
17:8I:54:GLY:HA2	17:8I:81:ARG:O	2.19	0.43
19:AI:30:LEU:HD22	19:AI:30:LEU:H	1.83	0.43
26:1H:10:G:N3	26:1H:2801:A:H1'	2.34	0.43
26:1H:213:A:H5"	26:1H:214:G:OP2	2.18	0.43
26:1H:346:A:C2	26:1H:347:A:H1'	2.54	0.43
26:1H:901:A:C5	26:1H:902:C:C5	3.06	0.43
26:1H:1154:G:H8	26:1H:1154:G:O5'	2.01	0.43
26:1H:1776:G:H2'	26:1H:1776:G:N3	2.33	0.43
26:1H:2213:U:O2	49:J8:52:ARG:NH2	2.41	0.43
27:16:99:A:C6	27:16:100:G:C5	3.07	0.43
29:11:206:LEU:HA	29:11:211:ARG:HD3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:21:VAL:HA	30:21:22:PRO:HD3	1.62	0.43
32:41:46:ALA:HB2	32:41:52:ILE:HG22	2.00	0.43
32:41:76:SER:OG	32:41:84:LYS:N	2.52	0.43
34:61:138:ILE:HG12	34:61:139:GLN:N	2.34	0.43
42:C8:69:CYS:SG	42:C8:79:PHE:CD2	3.11	0.43
43:D8:43:GLU:HA	43:D8:44:LYS:HA	1.72	0.43
46:G8:4:LYS:HE2	46:G8:4:LYS:HB3	1.81	0.43
49:J8:58:ILE:HG23	49:J8:87:PRO:HG3	2.01	0.43
53:N8:25:LEU:H	53:N8:25:LEU:HD12	1.84	0.43
1:1G:262:A:N6	1:1G:263:A:N6	2.67	0.43
1:1G:502:G:OP1	12:3A:118:SER:HB3	2.19	0.43
1:1G:616:G:N3	1:1G:616:G:H2'	2.33	0.43
1:1G:674:G:H2'	1:1G:675:A:C8	2.53	0.43
1:1G:1000:A:N6	1:1G:1041:A:H61	2.16	0.43
1:1G:1191:A:OP1	3:22:4:LYS:NZ	2.50	0.43
3:22:21:ARG:O	3:22:58:GLU:HA	2.19	0.43
3:22:36:ASP:OD1	3:22:57:ILE:HG21	2.19	0.43
3:22:120:VAL:HG11	3:22:198:VAL:HG11	2.01	0.43
3:22:159:GLY:HA2	3:22:193:TYR:CD2	2.53	0.43
8:72:26:VAL:HA	8:72:27:PRO:HD3	1.88	0.43
12:3A:84:LEU:HB3	12:3A:101:VAL:HB	2.00	0.43
20:BA:73:HIS:C	20:BA:74:LYS:HG2	2.43	0.43
56:2L:62:C:H2'	56:2L:63:C:H6	1.83	0.43
24:3L:13:C:H2'	24:3L:14:A:C8	2.36	0.43
26:14:65:C:H2'	26:14:66:C:H6	1.84	0.43
26:14:68:G:C2	26:14:69:C:C2	3.06	0.43
26:14:270(X):G:C6	26:14:270(Y):G:N1	2.87	0.43
26:14:307:G:N2	26:14:310:A:OP2	2.50	0.43
26:14:691:C:H2'	26:14:692:C:C6	2.54	0.43
26:14:950:G:C2	26:14:968:G:C2	3.07	0.43
26:14:974(A):C:H2'	26:14:974(A):C:O2	2.19	0.43
26:14:995:C:C5	42:85:57:PHE:CZ	3.07	0.43
26:14:1030:G:OP2	38:45:128:LYS:HE2	2.19	0.43
26:14:1057:A:H2'	26:14:1058:U:O4'	2.18	0.43
26:14:1165:U:H2'	26:14:1166:C:C6	2.54	0.43
26:14:1461:G:H2'	26:14:1462:C:C6	2.53	0.43
26:14:1500:G:O2'	29:19:100:GLY:O	2.33	0.43
26:14:1795:C:H2'	26:14:1796:U:C6	2.53	0.43
26:14:2116:G:H2'	26:14:2117:A:C5	2.54	0.43
26:14:2165:G:C2'	26:14:2166:G:H5'	2.49	0.43
26:14:2599:G:C2	26:14:2600:A:C4	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2745:C:H4'	33:59:142:GLY:O	2.18	0.43
31:39:10:PRO:HD2	31:39:13:SER:OG	2.18	0.43
31:39:41:LEU:O	31:39:44:ARG:HG2	2.18	0.43
32:49:18:GLU:HG2	32:49:175:LEU:HD13	2.01	0.43
33:59:7:LEU:H	33:59:7:LEU:HG	1.61	0.43
35:15:120:LEU:HA	35:15:120:LEU:HD12	1.72	0.43
37:35:36:LYS:HB3	37:35:37:GLY:H	1.44	0.43
37:35:85:LEU:HB3	37:35:114:ILE:HD11	2.01	0.43
42:85:74:LEU:HB2	42:85:78:THR:OG1	2.18	0.43
44:A5:56:ALA:O	44:A5:57:ASN:C	2.61	0.43
44:A5:87:PRO:HA	44:A5:93:ALA:HB2	2.01	0.43
47:D5:5:LEU:HD23	47:D5:6:LYS:N	2.33	0.43
47:D5:30:ASN:HD22	47:D5:90:VAL:HB	1.83	0.43
47:D5:102:LEU:HB2	47:D5:104:PHE:HE1	1.83	0.43
49:F5:83:GLU:CD	49:F5:83:GLU:N	2.77	0.43
54:L5:22:MET:HE3	54:L5:22:MET:HB3	1.50	0.43
1:13:406:G:H2'	1:13:407:G:C8	2.53	0.43
1:13:739:C:C4	1:13:740:U:C5	3.07	0.43
1:13:1129:C:C5	1:13:1132:C:N4	2.87	0.43
1:13:1169:A:C6	1:13:1170:A:N1	2.86	0.43
3:2E:27:LYS:O	3:2E:31:HIS:HE1	2.02	0.43
4:3E:3:ARG:H	4:3E:3:ARG:HD3	1.83	0.43
7:6E:101:LEU:O	7:6E:105:VAL:HG23	2.18	0.43
9:8E:24:GLY:HA2	9:8E:59:PHE:O	2.19	0.43
11:2I:30:VAL:HG21	11:2I:65:ALA:HA	2.01	0.43
18:9I:37:VAL:HG12	18:9I:41:LYS:HE3	2.01	0.43
18:9I:59:SER:HB3	18:9I:62:GLU:CG	2.48	0.43
19:AI:5:LEU:CB	19:AI:10:PHE:HE1	2.31	0.43
25:4K:23:A:H3'	25:4K:24:A:C8	2.53	0.43
26:1H:33:U:C4'	26:1H:34:C:OP1	2.64	0.43
26:1H:139:G:N2	26:1H:141:A:N1	2.66	0.43
26:1H:419:C:H2'	26:1H:420:C:O4'	2.18	0.43
26:1H:608:A:C4	26:1H:621:A:C6	3.06	0.43
26:1H:1024:G:C3'	26:1H:1025:G:H5"	2.49	0.43
26:1H:1567:A:OP1	29:11:60:ARG:NE	2.43	0.43
26:1H:1716:U:O2	26:1H:1716:U:H2'	2.17	0.43
26:1H:1728:G:C6	26:1H:1730:U:OP2	2.71	0.43
26:1H:2187:G:H2'	26:1H:2188:C:O4'	2.19	0.43
26:1H:2376:A:H2'	26:1H:2377:A:O4'	2.18	0.43
27:16:44:G:N1	27:16:48:A:C2	2.87	0.43
30:21:166:THR:CG2	30:21:199:ARG:HH22	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:31:9:ILE:HD11	31:31:125:LEU:H	1.84	0.43
36:68:2:ILE:HG23	36:68:8:LEU:HD21	2.01	0.43
36:68:70:LYS:HE3	36:68:70:LYS:HB3	1.67	0.43
37:78:100:LEU:HD12	37:78:105:LEU:CD1	2.46	0.43
39:98:65:LEU:HA	39:98:65:LEU:HD12	1.73	0.43
40:A8:57:LYS:C	40:A8:58:LEU:HD23	2.43	0.43
40:A8:110:LEU:CD1	40:A8:111:GLU:H	2.32	0.43
42:C8:97:ASP:O	42:C8:101:ARG:HB2	2.18	0.43
46:G8:97:ARG:HD2	46:G8:97:ARG:N	2.34	0.43
49:J8:32:LYS:HZ3	49:J8:32:LYS:HG3	1.70	0.43
55:Q8:21:LYS:HA	55:Q8:21:LYS:HD2	1.69	0.43
1:1G:15:G:H1	1:1G:920:U:H3	1.67	0.43
1:1G:310:G:P	16:7A:27:LYS:HD3	2.59	0.43
1:1G:476:G:O2'	1:1G:477:G:H5'	2.17	0.43
1:1G:1071:C:H2'	1:1G:1072:G:C8	2.54	0.43
2:12:24:TRP:N	2:12:24:TRP:CD1	2.85	0.43
3:22:76:VAL:HG21	3:22:103:VAL:HG11	2.00	0.43
10:1A:63:PHE:HD1	14:5A:57:ARG:O	2.02	0.43
12:3A:10:LEU:HD11	12:3A:15:ARG:HE	1.83	0.43
12:3A:98:TYR:N	12:3A:98:TYR:CD1	2.86	0.43
12:3A:102:ARG:HA	12:3A:102:ARG:HD2	1.88	0.43
20:BA:26:ASN:HB2	20:BA:71:THR:HG23	2.00	0.43
24:3L:34:G:N2	24:3L:35:A:N9	2.67	0.43
24:3L:53:G:H1'	24:3L:62:C:O2	2.18	0.43
26:14:199:A:N3	26:14:2433:A:C2	2.87	0.43
26:14:972:G:H2'	26:14:973:A:C8	2.54	0.43
26:14:1027:A:H5"	27:1J:88:C:H41	1.83	0.43
26:14:1280:G:C6	26:14:1281:G:C5	3.06	0.43
26:14:1678:G:H22	26:14:1989:G:H22	1.65	0.43
26:14:1904:G:H2'	26:14:1905:C:O4'	2.19	0.43
26:14:2090:G:C6	26:14:2091:U:C4	3.06	0.43
26:14:2341:G:C6	26:14:2342:C:N4	2.87	0.43
27:1J:86:G:N1	27:1J:90:C:N3	2.37	0.43
29:19:10:THR:OG1	29:19:13:ARG:HB2	2.19	0.43
35:15:67:LEU:HG	35:15:88:GLU:HG2	2.00	0.43
36:25:1:MET:HE2	36:25:1:MET:HB3	1.87	0.43
42:85:61:TRP:O	42:85:65:ILE:HD12	2.19	0.43
42:85:66:ASN:O	42:85:70:ARG:HB2	2.18	0.43
43:95:35:LEU:O	43:95:37:VAL:HG13	2.19	0.43
54:L5:27:GLY:HA2	54:L5:30:VAL:HG23	1.99	0.43
1:13:186(C):G:H2'	1:13:186(D):C:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:403:C:H4'	4:3E:122:ARG:HH11	1.83	0.43
1:13:411:A:N7	1:13:413:G:C4	2.86	0.43
1:13:684:A:N3	11:2I:39:PRO:HD2	2.34	0.43
1:13:947:G:H2'	1:13:948:C:O4'	2.19	0.43
1:13:953:G:H5'	1:13:965:A:H61	1.84	0.43
1:13:1144:G:N2	1:13:1145:C:O2	2.52	0.43
1:13:1386:G:C2	1:13:1387:G:C8	3.07	0.43
1:13:1416:G:C5	1:13:1417:G:C5	3.06	0.43
1:13:1497:G:H2'	1:13:1498:U:H5'	2.00	0.43
11:2I:41:THR:HG22	11:2I:42:TRP:N	2.33	0.43
11:2I:91:ARG:HG2	11:2I:92:GLU:N	2.32	0.43
13:4I:107:ALA:HB3	13:4I:111:LYS:HB2	1.99	0.43
17:8I:46:ASP:CG	17:8I:51:TYR:HD2	2.26	0.43
19:AI:41:VAL:HB	19:AI:42:PRO:HA	2.01	0.43
20:BI:37:SER:O	20:BI:41:ILE:HG13	2.19	0.43
23:2K:14:A:C4	23:2K:23:G:C2	3.07	0.43
24:3K:18:G:O2'	24:3K:19:G:OP1	2.35	0.43
24:3K:55:PSU:H5"	24:3K:56:C:OP2	2.18	0.43
26:1H:49:A:H4'	26:1H:50:U:H5"	2.00	0.43
26:1H:273:G:H1	26:1H:364:C:H42	1.66	0.43
26:1H:1024:G:C6	26:1H:1025:G:C6	3.07	0.43
26:1H:1265:A:H8	26:1H:1265:A:OP1	2.02	0.43
26:1H:1287:A:C5	26:1H:1288:U:C4	3.06	0.43
26:1H:1371:G:H2'	26:1H:1372:U:H5	1.84	0.43
26:1H:1678:G:OP2	26:1H:1678:G:C8	2.72	0.43
26:1H:2502:G:OP2	59:1H:3529:HOH:O	2.21	0.43
27:16:31:C:H2'	27:16:32:C:H6	1.84	0.43
28:71:225:ASN:HA	28:71:226:PRO:HD3	1.69	0.43
29:11:75:ILE:HG22	29:11:76:PRO:O	2.19	0.43
29:11:124:PRO:HG2	29:11:129:ASN:HD21	1.83	0.43
29:11:222:ARG:HE	29:11:222:ARG:HB2	1.60	0.43
31:31:63:LYS:HE2	31:31:67:GLN:CB	2.46	0.43
32:41:97:ASP:O	32:41:99:MET:N	2.52	0.43
33:51:64:LEU:O	33:51:68:THR:OG1	2.32	0.43
41:B8:125:ARG:O	41:B8:129:ARG:N	2.31	0.43
45:F8:49:VAL:HG23	45:F8:50:LYS:N	2.34	0.43
48:I8:12:ASN:C	48:I8:14:ARG:HH21	2.27	0.43
55:Q8:6:THR:N	55:Q8:59:LYS:HZ2	2.14	0.43
1:1G:139:G:H2'	1:1G:140:A:H8	1.84	0.43
1:1G:262:A:H2'	1:1G:263:A:C8	2.53	0.43
1:1G:284:G:H2'	1:1G:285:G:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:428:G:C8	1:1G:430:A:C4	3.07	0.43
1:1G:784:C:H4'	26:14:1837:C:OP1	2.19	0.43
1:1G:1243:C:O2	1:1G:1295:G:C2	2.72	0.43
1:1G:1376:U:C2	1:1G:1377:A:N7	2.87	0.43
2:12:118:LEU:HD23	2:12:118:LEU:HA	1.82	0.43
11:2A:106:LYS:O	18:9A:87:ARG:NH2	2.51	0.43
12:3A:7:ILE:HD13	12:3A:7:ILE:HA	1.74	0.43
12:3A:24:VAL:C	12:3A:26:ALA:N	2.77	0.43
17:8A:99:SER:OG	17:8A:100:LYS:N	2.51	0.43
20:BA:86:ARG:CZ	20:BA:86:ARG:HB2	2.47	0.43
24:3L:26:A:H2'	24:3L:27:G:H5'	2.00	0.43
26:14:264:C:H4'	26:14:428:A:C2	2.54	0.43
26:14:526:A:P	59:14:3937:HOH:O	2.75	0.43
26:14:807:U:H2'	26:14:808:G:C8	2.50	0.43
26:14:872:A:C6	26:14:906:G:C2	3.07	0.43
26:14:990:A:H5'	26:14:990:A:H8	1.83	0.43
26:14:1662:C:O2'	26:14:2687:U:OP1	2.36	0.43
26:14:2191:G:O2'	26:14:2192:G:OP1	2.30	0.43
26:14:2303:G:H2'	26:14:2304:G:H5'	2.00	0.43
26:14:2336:A:H3'	26:14:2337:G:H8	1.84	0.43
26:14:2358:G:C4	26:14:2359:C:C6	3.07	0.43
26:14:2403:C:N3	26:14:2415:G:C2	2.87	0.43
26:14:2531:A:H5'	33:59:157:TYR:CZ	2.54	0.43
26:14:2537:U:H2'	26:14:2538:C:H6	1.83	0.43
26:14:2674:G:H2'	26:14:2675:A:H8	1.80	0.43
26:14:2745:C:O2'	33:59:142:GLY:HA3	2.19	0.43
33:59:152:ARG:HD2	33:59:153:LYS:HG3	2.00	0.43
39:55:63:ARG:HA	39:55:80:PHE:CZ	2.53	0.43
46:C5:29:GLU:N	46:C5:29:GLU:CD	2.76	0.43
46:C5:36:ALA:HA	46:C5:67:LEU:O	2.19	0.43
47:D5:91:LEU:HD13	47:D5:130:PRO:HG3	2.01	0.43
1:13:77:C:C2'	1:13:78:G:H5"	2.48	0.43
1:13:128:G:H5'	17:8I:2:PRO:O	2.18	0.43
1:13:251:G:H4'	1:13:252:U:O5'	2.19	0.43
1:13:313:A:C6	1:13:314:C:N4	2.87	0.43
1:13:342:C:H2'	1:13:343:U:C6	2.54	0.43
1:13:509:A:H5"	4:3E:55:ALA:HB2	2.00	0.43
1:13:525:C:H2'	1:13:526:C:C6	2.54	0.43
1:13:667:G:H4'	15:6I:51:HIS:ND1	2.33	0.43
1:13:804:U:H5"	1:13:805:C:OP2	2.19	0.43
1:13:910:C:H2'	1:13:911:U:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1269:A:H2	1:13:1312:G:N3	2.17	0.43
1:13:1503:A:O2'	25:4K:13:A:C6	2.70	0.43
2:1E:28:PHE:HD1	2:1E:194:PRO:HD3	1.83	0.43
2:1E:54:THR:O	2:1E:57:PHE:N	2.49	0.43
3:2E:178:LEU:HA	3:2E:178:LEU:HD13	1.63	0.43
5:4E:41:VAL:HG23	5:4E:67:VAL:HG11	2.00	0.43
9:8E:53:VAL:HG12	9:8E:55:ALA:H	1.84	0.43
9:8E:118:LYS:HE2	9:8E:118:LYS:HB3	1.93	0.43
14:5I:4:LYS:C	14:5I:6:LEU:N	2.76	0.43
20:BI:12:ALA:O	20:BI:15:ARG:HB2	2.19	0.43
22:1K:58:A:C5	22:1K:59:A:C2	3.01	0.43
26:1H:260:G:N2	26:1H:261:G:H1'	2.34	0.43
26:1H:447:A:C2	26:1H:473:G:C8	3.07	0.43
26:1H:574:C:H5'	59:1H:3716:HOH:O	2.18	0.43
26:1H:598:G:H2'	26:1H:599:G:O4'	2.19	0.43
26:1H:849:A:H8	26:1H:849:A:O5'	2.02	0.43
26:1H:863:A:H2'	26:1H:864:G:C8	2.54	0.43
26:1H:882:G:OP1	26:1H:882:G:H4'	2.18	0.43
26:1H:1262:A:N3	53:N8:10:LYS:NZ	2.66	0.43
26:1H:1327:C:P	59:1H:3539:HOH:O	2.77	0.43
26:1H:1508:A:H4'	26:1H:1509:C:C1'	2.48	0.43
26:1H:1948:G:C2'	26:1H:1949:G:H5'	2.49	0.43
26:1H:2290:G:C6	26:1H:2291:U:C4	3.07	0.43
26:1H:2531:A:C8	33:51:175:LYS:HG2	2.54	0.43
26:1H:2690:C:OP2	39:98:14:SER:HB3	2.19	0.43
28:71:66:HIS:HB2	28:71:188:ASN:HD21	1.84	0.43
29:11:94:LEU:HD23	29:11:94:LEU:HA	1.65	0.43
31:31:101:LEU:HD23	31:31:101:LEU:HA	1.58	0.43
33:51:32:GLU:O	33:51:33:LEU:HD23	2.18	0.43
34:61:25:TYR:CE1	34:61:29:TYR:CD2	3.07	0.43
35:58:5:VAL:HG23	35:58:6:PRO:HD2	2.01	0.43
36:68:2:ILE:HG22	36:68:3:GLN:N	2.34	0.43
38:88:52:VAL:O	38:88:56:ARG:HB2	2.18	0.43
41:B8:99:LEU:HD12	41:B8:99:LEU:H	1.84	0.43
42:C8:79:PHE:HD1	42:C8:79:PHE:C	2.26	0.43
47:H8:15:PRO:HA	47:H8:18:LEU:HD13	2.00	0.43
47:H8:166:SER:HA	47:H8:167:PRO:HD3	1.84	0.43
50:K8:7:ARG:N	50:K8:10:LEU:HB2	2.34	0.43
1:1G:147:G:H21	1:1G:148:G:H1'	1.84	0.43
1:1G:167:G:O2'	1:1G:168:G:H5'	2.19	0.43
1:1G:216:G:O2'	1:1G:217:C:O5'	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:578:C:O4'	1:1G:729:A:H1'	2.19	0.43
1:1G:1103:C:H2'	1:1G:1104:G:O4'	2.19	0.43
1:1G:1221:G:OP1	1:1G:1320:C:N4	2.50	0.43
1:1G:1244:C:H2'	1:1G:1245:A:C8	2.54	0.43
3:22:14:ILE:HG23	3:22:15:THR:OG1	2.19	0.43
3:22:73:PRO:HA	3:22:76:VAL:HG13	2.01	0.43
5:42:86:ALA:O	5:42:125:SER:HB3	2.19	0.43
14:5A:22:THR:OG1	14:5A:33:VAL:HG21	2.19	0.43
15:6A:23:GLY:O	15:6A:28:GLN:NE2	2.42	0.43
56:2L:1:C:H4'	38:45:87:LYS:HE2	2.01	0.43
26:14:449:A:N7	59:14:3644:HOH:O	2.36	0.43
26:14:654(C):G:H2'	26:14:654(D):G:O4'	2.19	0.43
26:14:654(T):A:H2'	26:14:654(U):A:O4'	2.19	0.43
26:14:1160:G:C5	26:14:1161:C:C4	3.07	0.43
26:14:1750:G:C2	26:14:1751:C:C5	3.07	0.43
26:14:1767:C:H2'	26:14:1768:U:O4'	2.19	0.43
26:14:1838:C:N4	26:14:1898:U:H2'	2.34	0.43
26:14:1919:A:H2'	26:14:1919:A:N3	2.34	0.43
26:14:2115:G:N2	26:14:2172:U:H3	2.17	0.43
26:14:2439:A:H5'	26:14:2439:A:H8	1.84	0.43
26:14:2678:C:O5'	26:14:2678:C:H6	2.01	0.43
27:1J:44:G:C2	27:1J:48:A:C2	3.07	0.43
27:1J:104:A:H4'	47:D5:89:PHE:CE1	2.53	0.43
31:39:140:LEU:O	31:39:140:LEU:HD13	2.19	0.43
32:49:2:PRO:HB2	32:49:3:LEU:H	1.62	0.43
37:35:64:LYS:HD2	55:M5:30:ARG:HH12	1.84	0.43
38:45:26:TYR:O	38:45:26:TYR:CD2	2.72	0.43
39:55:105:ARG:HE	39:55:105:ARG:HB3	1.55	0.43
47:D5:31:ARG:HE	47:D5:31:ARG:HB2	1.30	0.43
48:E5:14:ARG:O	48:E5:15:ASP:HB2	2.18	0.43
48:E5:20:ARG:HA	48:E5:20:ARG:HD3	1.94	0.43
52:I5:38:LYS:C	52:I5:40:HIS:H	2.27	0.43
55:M5:14:VAL:HG12	55:M5:15:LYS:H	1.84	0.43
1:13:105:G:C5	1:13:106:C:C4	3.07	0.42
1:13:195:A:H4'	20:BI:68:LYS:HE2	2.01	0.42
1:13:596:C:N3	1:13:645:C:O2	2.52	0.42
1:13:606:G:N3	1:13:606:G:H2'	2.34	0.42
1:13:1124:G:N7	1:13:1145:C:H2'	2.34	0.42
1:13:1144:G:C2	1:13:1145:C:C2	3.07	0.42
6:5E:82:ARG:HB2	6:5E:85:VAL:HG23	2.01	0.42
6:5E:98:LEU:HA	18:9I:29:PHE:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3I:86:ARG:NH2	12:3I:99:HIS:CG	2.87	0.42
13:4I:19:LEU:HA	13:4I:22:ILE:HG13	2.01	0.42
19:AI:78:ARG:HD2	19:AI:79:THR:N	2.34	0.42
20:BI:29:LYS:HB2	20:BI:29:LYS:HE3	1.73	0.42
20:BI:54:LYS:HD3	20:BI:54:LYS:C	2.44	0.42
23:2K:57:C:H2'	23:2K:58:A:C8	2.55	0.42
23:2K:64:G:C2	23:2K:65:G:N7	2.87	0.42
26:1H:228:A:O2'	26:1H:229:A:N3	2.47	0.42
26:1H:1064:C:N4	26:1H:1070:A:OP1	2.52	0.42
26:1H:2049:G:N2	26:1H:2620:C:C2	2.87	0.42
26:1H:2072:G:H2'	26:1H:2073:C:O4'	2.19	0.42
26:1H:2086:U:H2'	26:1H:2087:G:C8	2.54	0.42
26:1H:2325:G:OP1	26:1H:2325:G:H3'	2.18	0.42
26:1H:2470:G:H8	26:1H:2470:G:O5'	2.02	0.42
27:16:4:C:H2'	27:16:5:C:C6	2.53	0.42
30:21:170:LEU:HD11	30:21:187:ALA:HB3	2.01	0.42
31:31:149:ASP:CG	31:31:151:SER:HB3	2.44	0.42
33:51:7:LEU:HD12	33:51:7:LEU:N	2.28	0.42
34:61:129:THR:HA	34:61:137:PRO:HA	2.01	0.42
35:58:29:LYS:H	35:58:29:LYS:HG2	1.51	0.42
36:68:7:TYR:CZ	36:68:44:LYS:HG3	2.54	0.42
38:88:51:ARG:NH1	38:88:52:VAL:HG23	2.28	0.42
41:B8:101:PHE:O	41:B8:105:LEU:HD13	2.18	0.42
41:B8:106:SER:O	41:B8:111:ARG:NH1	2.51	0.42
1:1G:96:G:C6	1:1G:97:U:C4	3.07	0.42
1:1G:651:C:H2'	1:1G:652:U:C6	2.54	0.42
1:1G:770:C:O4'	1:1G:900:A:H2	2.02	0.42
2:12:185:ILE:CG2	2:12:199:TYR:HB2	2.41	0.42
5:42:76:ILE:HD12	5:42:142:LEU:HD13	2.01	0.42
5:42:143:ARG:HA	5:42:143:ARG:HD3	1.86	0.42
7:62:149:ARG:HD3	11:2A:59:TYR:CZ	2.54	0.42
25:4L:13:A:H2'	25:4L:13:A:N3	2.34	0.42
26:14:392:C:H5"	26:14:409:C:H5"	2.01	0.42
26:14:1027:A:H5'	27:1J:88:C:H41	1.83	0.42
26:14:1036:G:H2'	26:14:1037:G:O4'	2.19	0.42
26:14:1387:C:C2	26:14:1388:G:C8	3.06	0.42
26:14:1889:A:C6	26:14:1890:A:C6	3.07	0.42
26:14:2078:C:H1'	26:14:2434:A:N3	2.34	0.42
26:14:2377:A:H4'	40:65:111:GLU:HG2	2.01	0.42
26:14:2472:G:H8	26:14:2472:G:O5'	2.02	0.42
26:14:2611:U:H1'	53:J5:3:LYS:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1J:45:A:C6	27:1J:46:A:C5	3.07	0.42
30:29:113:PHE:C	30:29:113:PHE:CD1	2.97	0.42
32:49:73:ALA:HB3	32:49:85:GLY:H	1.84	0.42
35:15:130:HIS:HB2	35:15:134:ARG:CZ	2.49	0.42
39:55:18:LEU:HD23	39:55:18:LEU:HA	1.72	0.42
44:A5:50:VAL:HG22	44:A5:105:VAL:HG23	2.00	0.42
1:13:148:G:H1	1:13:174:C:N4	2.17	0.42
1:13:746:A:H2'	1:13:747:C:H6	1.84	0.42
1:13:929:G:C2	1:13:930:C:C2	3.07	0.42
1:13:1215:G:C6	1:13:1216:G:C5	3.08	0.42
1:13:1347:G:N2	1:13:1373:G:H2'	2.34	0.42
1:13:1379:G:N7	7:6E:2:ALA:HB3	2.34	0.42
3:2E:6:HIS:O	3:2E:10:PHE:HB2	2.19	0.42
6:5E:101:ALA:HB2	18:9I:28:GLU:HG2	2.00	0.42
9:8E:4:TYR:CE2	9:8E:88:TYR:HB2	2.54	0.42
11:2I:44:SER:OG	11:2I:45:GLY:N	2.52	0.42
13:4I:67:GLU:CD	13:4I:68:GLY:N	2.77	0.42
17:8I:15:MET:HB2	17:8I:18:THR:HB	2.01	0.42
20:BI:64:ASP:OD1	20:BI:64:ASP:N	2.52	0.42
24:3K:58:A:HO2'	24:3K:59:U:P	2.41	0.42
24:3K:71:G:N3	24:3K:71:G:H2'	2.33	0.42
24:3K:76:A:O2'	26:1H:2394:C:C2	2.71	0.42
26:1H:44:A:C2'	26:1H:45:G:H5'	2.49	0.42
26:1H:67:U:H2'	26:1H:68:G:C8	2.53	0.42
26:1H:265:A:H1'	26:1H:266:G:O4'	2.19	0.42
26:1H:438:G:H2'	26:1H:439:G:C8	2.54	0.42
26:1H:484:C:H2'	26:1H:485:C:C6	2.54	0.42
26:1H:588:U:C2	31:31:90:PHE:CE1	3.07	0.42
26:1H:601:C:O2'	26:1H:605:C:OP1	2.33	0.42
26:1H:635:C:O2'	26:1H:639:U:OP1	2.38	0.42
26:1H:1049:C:C2'	26:1H:1050:A:H5'	2.49	0.42
26:1H:1235:G:C2	26:1H:1236:G:N2	2.88	0.42
26:1H:1394:U:C4	26:1H:1395:A:C6	3.06	0.42
26:1H:1423:G:H2'	26:1H:1424:G:H8	1.84	0.42
26:1H:1567:A:C8	29:11:84:TYR:CE2	3.07	0.42
26:1H:1998:G:O2'	26:1H:1999:C:H5'	2.19	0.42
26:1H:2050:C:H2'	26:1H:2051:A:C8	2.54	0.42
26:1H:2392:A:H1'	37:78:61:ARG:HD2	2.01	0.42
26:1H:2400:G:H2'	26:1H:2401:U:H6	1.77	0.42
31:31:153:SER:HB2	31:31:189:THR:HG22	2.00	0.42
33:51:101:ARG:NH1	33:51:122:THR:OG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:58:112:LEU:HD12	35:58:112:LEU:HA	1.80	0.42
36:68:25:LEU:HD21	36:68:40:VAL:HG23	2.01	0.42
49:J8:53:VAL:HB	49:J8:58:ILE:HD13	2.01	0.42
1:1G:66:G:C2	1:1G:67:C:C6	3.07	0.42
1:1G:483:C:OP2	1:1G:483:C:H6	2.02	0.42
1:1G:539:A:H2'	1:1G:540:G:H8	1.80	0.42
1:1G:775:G:C2'	1:1G:776:G:H5'	2.49	0.42
1:1G:825:G:H2'	1:1G:826:C:O4'	2.20	0.42
1:1G:1128:C:N3	1:1G:1139:G:N1	2.68	0.42
1:1G:1129:C:N4	1:1G:1139:G:H22	2.17	0.42
1:1G:1148:U:H2'	1:1G:1149:C:O4'	2.19	0.42
1:1G:1227:A:C8	1:1G:1227:A:H3'	2.54	0.42
2:12:162:ILE:HG23	2:12:182:ILE:HG21	1.99	0.42
5:42:40:ARG:HA	5:42:67:VAL:O	2.19	0.42
13:4A:78:ILE:HG23	13:4A:92:HIS:ND1	2.34	0.42
18:9A:37:VAL:HG13	18:9A:78:LEU:HB3	2.00	0.42
56:2L:6:G:O6	56:2L:68:C:N4	2.44	0.42
26:14:6:A:C2	26:14:7:G:C8	3.07	0.42
26:14:54:G:C6	26:14:117:G:N2	2.87	0.42
26:14:107:C:C2	26:14:108:U:C6	3.06	0.42
26:14:513:A:C2	26:14:514:A:C5	3.07	0.42
26:14:531:C:OP1	26:14:561:G:N2	2.52	0.42
26:14:711:G:N2	26:14:721:C:O2	2.52	0.42
26:14:729:G:O5'	29:19:208:LYS:NZ	2.53	0.42
26:14:946:G:C2'	26:14:947:G:O5'	2.67	0.42
26:14:993:G:C6	26:14:1162:G:C6	3.07	0.42
26:14:1667:G:O2'	26:14:1991:U:O4	2.29	0.42
26:14:1819:A:H8	26:14:1819:A:O5'	2.02	0.42
26:14:2320:A:C6	26:14:2333:A:C8	3.07	0.42
26:14:2599:G:OP2	29:19:236:GLY:N	2.52	0.42
26:14:2785:C:H2'	26:14:2786:U:O4'	2.18	0.42
26:14:2839:G:H4'	39:55:49:ASP:CB	2.50	0.42
27:1J:14:U:O2'	27:1J:15:A:OP1	2.29	0.42
30:29:68:ALA:C	30:29:70:ALA:N	2.76	0.42
31:39:9:ILE:HG12	31:39:14:PRO:HA	2.01	0.42
32:49:145:THR:C	32:49:147:ASP:H	2.26	0.42
38:45:116:GLU:O	38:45:117:ALA:HB3	2.19	0.42
39:55:56:LYS:NZ	39:55:90:ARG:O	2.46	0.42
39:55:85:PRO:O	39:55:88:ARG:HB2	2.18	0.42
40:65:88:ASP:HB3	40:65:89:ARG:H	1.43	0.42
43:95:22:VAL:HG22	43:95:23:GLU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:B5:32:PRO:HA	45:B5:77:LYS:HB2	2.01	0.42
1:13:210:U:O2'	1:13:216:G:C8	2.73	0.42
1:13:266:G:O2'	17:8I:67:LYS:HD3	2.19	0.42
1:13:291:C:N4	1:13:309:G:H1	2.17	0.42
1:13:468:A:H5"	16:7I:80:PHE:HB3	2.01	0.42
1:13:1219:U:H2'	1:13:1220:G:C8	2.54	0.42
1:13:1255:G:P	10:1I:45:ARG:HH22	2.43	0.42
1:13:1355:G:H2'	1:13:1356:G:C8	2.54	0.42
1:13:1507:A:C6	1:13:1530:G:C6	3.07	0.42
2:1E:89:GLY:C	2:1E:90:MET:HE2	2.44	0.42
8:7E:14:ARG:HG3	8:7E:83:ILE:CG2	2.49	0.42
9:8E:48:GLU:N	9:8E:49:PRO:CD	2.83	0.42
15:6I:9:GLN:O	15:6I:13:GLN:HG3	2.18	0.42
16:7I:4:ILE:O	16:7I:66:PRO:HA	2.19	0.42
16:7I:21:VAL:HG12	16:7I:33:ILE:HB	1.99	0.42
24:3K:5:G:N1	24:3K:6:G:O6	2.53	0.42
26:1H:270(U):C:OP1	49:J8:98:LEU:HB2	2.20	0.42
26:1H:301:G:C4	26:1H:302:C:C5	3.07	0.42
26:1H:350:U:H2'	26:1H:351:G:H8	1.80	0.42
26:1H:370:G:H4'	26:1H:371:A:OP2	2.18	0.42
26:1H:442:G:C4	26:1H:444:C:C5	3.07	0.42
26:1H:598:G:C1'	37:78:12:ALA:HB2	2.49	0.42
26:1H:782:A:N7	29:11:221:VAL:HG11	2.33	0.42
26:1H:818:G:N7	26:1H:1187:G:C6	2.87	0.42
26:1H:881:G:H5'	26:1H:882:G:O5'	2.19	0.42
26:1H:998:C:OP2	42:C8:58:ARG:NH1	2.52	0.42
26:1H:1084:A:N7	26:1H:1085:A:N7	2.67	0.42
26:1H:1179:C:H2'	26:1H:1180:C:C6	2.54	0.42
26:1H:1590:U:H2'	26:1H:1591:G:C8	2.54	0.42
26:1H:1689:A:C6	26:1H:1700:A:C2	3.07	0.42
26:1H:2131:G:H4'	26:1H:2133:G:H4'	2.00	0.42
26:1H:2439:A:H5'	26:1H:2439:A:C8	2.54	0.42
27:16:27:C:C2'	27:16:28:C:H5'	2.49	0.42
27:16:38:C:H2'	27:16:39:A:O4'	2.19	0.42
28:71:10:LEU:HD22	28:71:10:LEU:H	1.84	0.42
33:51:12:PRO:HB2	33:51:13:LYS:H	1.62	0.42
33:51:124:GLU:O	33:51:126:PRO:HD3	2.19	0.42
34:61:25:TYR:HE1	34:61:29:TYR:CD2	2.38	0.42
34:61:72:LEU:HD11	34:61:107:VAL:HG11	2.01	0.42
37:78:57:THR:HB	37:78:60:MET:H	1.85	0.42
38:88:66:ILE:CG2	38:88:67:ARG:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:A8:33:LYS:HB3	40:A8:34:HIS:CD2	2.54	0.42
42:C8:92:ARG:HD2	43:D8:11:GLN:CB	2.48	0.42
45:F8:5:TYR:CE2	50:K8:30:ARG:HB2	2.53	0.42
46:G8:19:LYS:HD3	46:G8:20:TYR:CE1	2.54	0.42
47:H8:163:LEU:HD12	47:H8:165:VAL:CG1	2.49	0.42
52:M8:12:ALA:HB3	52:M8:24:THR:HB	2.01	0.42
1:1G:4:U:O4	8:72:105:ARG:HD3	2.20	0.42
1:1G:129(A):G:C6	1:1G:188:U:H4'	2.55	0.42
1:1G:728:A:H2'	1:1G:729:A:C8	2.54	0.42
1:1G:750:G:N2	15:6A:23:GLY:HA3	2.34	0.42
1:1G:921:U:O2'	5:42:18:ARG:HG3	2.19	0.42
1:1G:1169:A:N6	1:1G:1170:A:N1	2.66	0.42
1:1G:1206:G:C4	1:1G:1207:G:C8	3.07	0.42
2:12:72:GLY:C	2:12:74:LYS:H	2.27	0.42
3:22:18:TRP:NE1	14:5A:55:GLY:N	2.66	0.42
4:32:18:LYS:HE2	4:32:33:MET:HB3	2.01	0.42
6:52:2:ARG:HH22	15:6A:2:PRO:HD3	1.84	0.42
6:52:55:ASP:HA	6:52:56:PRO:HD3	1.78	0.42
9:82:95:LYS:HB2	9:82:95:LYS:HE2	1.74	0.42
16:7A:74:LEU:HA	16:7A:74:LEU:HD13	1.68	0.42
20:BA:26:ASN:HA	20:BA:29:LYS:HG2	2.01	0.42
56:2L:65:G:C2	56:2L:66:C:C2	3.07	0.42
26:14:452:G:H5'	31:39:59:TYR:CE1	2.54	0.42
26:14:482:A:H8	26:14:482:A:O5'	2.02	0.42
26:14:482:A:H5"	26:14:483:A:OP1	2.19	0.42
26:14:604:G:OP2	37:35:90:ARG:NH2	2.52	0.42
26:14:783:A:C8	26:14:784:A:H4'	2.55	0.42
26:14:977:G:C4	26:14:978:G:C8	3.07	0.42
26:14:1000:A:C6	26:14:1155:A:C8	3.08	0.42
26:14:1022:G:H4'	26:14:1023:U:H5'	2.00	0.42
26:14:1101:U:H2'	26:14:1102:C:H6	1.83	0.42
26:14:1109:C:H2'	26:14:1110:G:N9	2.34	0.42
26:14:1550:C:OP1	26:14:1727:U:O2'	2.26	0.42
26:14:1910:G:O2'	26:14:1911:U:H5'	2.18	0.42
26:14:2464:C:H2'	26:14:2465:C:O4'	2.20	0.42
26:14:2619:C:H2'	26:14:2620:C:C6	2.54	0.42
26:14:2872:G:O2'	26:14:2873:A:H5'	2.19	0.42
26:14:2888:C:H2'	26:14:2889:C:O4'	2.19	0.42
30:29:41:LYS:HG3	30:29:42:ASP:H	1.85	0.42
31:39:25:PRO:HB2	31:39:27:GLU:H	1.84	0.42
31:39:127:GLU:O	31:39:129:PHE:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:185:ASP:HA	31:39:188:ARG:HE	1.85	0.42
32:49:96:ARG:C	32:49:98:ARG:H	2.28	0.42
34:69:76:THR:HG23	34:69:77:LEU:N	2.34	0.42
36:25:45:GLU:HG2	36:25:46:ALA:N	2.34	0.42
36:25:97:ARG:CZ	36:25:99:PHE:HE1	2.32	0.42
38:45:25:ASP:CG	38:45:102:VAL:H	2.27	0.42
43:95:24:LYS:O	43:95:25:LEU:HD23	2.19	0.42
43:95:58:VAL:HB	43:95:98:GLU:HB2	2.02	0.42
46:C5:20:TYR:CE2	46:C5:42:VAL:HA	2.55	0.42
52:I5:53:GLU:HG3	52:I5:53:GLU:O	2.20	0.42
1:13:266:G:N2	1:13:269:C:C5	2.88	0.42
1:13:358:U:H2'	1:13:359:U:O4'	2.19	0.42
1:13:590:C:H42	1:13:649:G:H1	1.65	0.42
1:13:604:G:C6	1:13:605:U:N3	2.87	0.42
1:13:875:C:O2'	8:7E:14:ARG:NH1	2.53	0.42
1:13:1006:C:O2	1:13:1023:G:N2	2.40	0.42
1:13:1129:C:N4	1:13:1139:G:H1	2.15	0.42
1:13:1354:C:O5'	1:13:1354:C:H6	2.02	0.42
2:1E:178:ARG:HG2	2:1E:178:ARG:HH11	1.83	0.42
3:2E:58:GLU:N	3:2E:65:ALA:HB3	2.34	0.42
3:2E:95:THR:HB	3:2E:97:LYS:NZ	2.30	0.42
8:7E:13:ILE:O	8:7E:17:THR:HG23	2.19	0.42
15:6I:3:ILE:HG21	15:6I:34:LEU:HD23	2.02	0.42
26:1H:138:G:H22	45:F8:44:GLU:CD	2.19	0.42
26:1H:280:C:N3	26:1H:361:G:C2	2.87	0.42
26:1H:817:C:H4'	26:1H:932:G:C5	2.54	0.42
26:1H:818:G:H8	26:1H:818:G:O5'	2.03	0.42
26:1H:919:G:H4'	27:16:81:G:H4'	2.02	0.42
26:1H:1657:C:O2'	26:1H:1658:C:H5'	2.20	0.42
26:1H:1680:U:O2	26:1H:1763:G:H3'	2.19	0.42
26:1H:1799:G:C2	29:11:155:LEU:HD12	2.55	0.42
26:1H:2404:C:C5	26:1H:2405:G:N7	2.88	0.42
26:1H:2510:C:H2'	26:1H:2511:U:C6	2.54	0.42
26:1H:2580:U:C5	26:1H:2581:G:C6	3.07	0.42
26:1H:2746:U:O4	26:1H:2755:C:H4'	2.19	0.42
27:16:73:A:H2'	27:16:74:U:O4'	2.20	0.42
34:61:4:ILE:HG23	34:61:18:VAL:CG2	2.50	0.42
34:61:130:TYR:O	34:61:135:GLU:HB2	2.20	0.42
38:88:115:MET:HE2	38:88:115:MET:HB3	1.73	0.42
39:98:12:ARG:HE	39:98:16:HIS:CE1	2.37	0.42
40:A8:106:ARG:NH2	40:A8:107:GLU:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:G8:6:HIS:ND1	46:G8:6:HIS:N	2.67	0.42
47:H8:77:ASP:OD2	47:H8:80:ARG:HB2	2.19	0.42
1:1G:333:G:O2'	1:1G:334:C:H5'	2.20	0.42
1:1G:375:U:OP1	16:7A:69:THR:OG1	2.22	0.42
1:1G:625:G:C4	1:1G:626:U:C5	3.07	0.42
1:1G:965:A:OP1	1:1G:1198:G:H5"	2.19	0.42
1:1G:994:A:C8	1:1G:1216:G:H4'	2.54	0.42
1:1G:1208:C:H2'	1:1G:1209:C:C6	2.54	0.42
3:22:82:GLU:O	3:22:86:VAL:HG13	2.20	0.42
3:22:91:LEU:HD23	3:22:91:LEU:H	1.84	0.42
5:42:50:GLU:CB	5:42:53:LEU:HD13	2.45	0.42
5:42:76:ILE:O	5:42:93:PRO:HB3	2.19	0.42
5:42:144:THR:HG23	5:42:147:ASP:HB2	2.01	0.42
7:62:102:ARG:HG2	7:62:106:GLN:NE2	2.34	0.42
7:62:113:GLU:CD	7:62:122:HIS:HD1	2.27	0.42
8:72:15:ASN:O	8:72:19:VAL:HG22	2.20	0.42
26:14:322:A:C3'	31:39:169:ASN:HD21	2.31	0.42
26:14:394:A:H2'	26:14:395:U:O4'	2.20	0.42
26:14:843:G:H1	26:14:935:C:H42	1.65	0.42
26:14:908:C:OP1	38:45:23:GLY:HA2	2.19	0.42
26:14:1198:U:H2'	26:14:1199:U:H6	1.85	0.42
26:14:1385:G:C4	26:14:1386:C:C5	3.07	0.42
26:14:1559:G:N3	26:14:1559:G:H5'	2.34	0.42
26:14:1771:C:H1'	26:14:1786:A:C8	2.54	0.42
26:14:2111:C:C2	26:14:2118:U:H4'	2.55	0.42
26:14:2261:C:O2'	26:14:2262:U:H5'	2.19	0.42
26:14:2512:C:H4'	30:29:122:PHE:CE2	2.55	0.42
26:14:2520:C:H41	26:14:2542:A:H62	1.67	0.42
26:14:2749:A:N1	26:14:2750:A:N6	2.68	0.42
26:14:2844:G:H5'	26:14:2845:G:OP2	2.19	0.42
31:39:143:ALA:HB1	31:39:148:LEU:HB2	2.02	0.42
32:49:118:ARG:HB3	32:49:181:ARG:HG3	2.01	0.42
37:35:144:GLU:HA	37:35:145:PRO:HD3	1.75	0.42
38:45:24:GLY:H	38:45:101:ARG:NH1	2.18	0.42
41:75:6:LEU:O	41:75:10:VAL:HB	2.19	0.42
41:75:127:ALA:O	41:75:131:ALA:HB3	2.19	0.42
42:85:92:ARG:C	42:85:94:ASN:N	2.76	0.42
52:I5:58:ARG:NE	52:I5:61:ARG:HE	2.18	0.42
1:13:158:G:H22	1:13:163:C:H1'	1.85	0.42
1:13:222:U:C2	1:13:223:U:C5	3.08	0.42
1:13:392:G:H2'	1:13:393:A:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:452:A:H2'	1:13:453:A:C8	2.55	0.42
1:13:646:U:H2'	1:13:647:C:C6	2.54	0.42
1:13:942:G:N3	1:13:943:U:C6	2.88	0.42
1:13:1002:G:C4	1:13:1003:G:C8	3.08	0.42
1:13:1098:C:C2	1:13:1099:G:C8	3.08	0.42
1:13:1291:G:C6	1:13:1292:U:C5	3.07	0.42
2:1E:155:LEU:HD13	2:1E:155:LEU:HA	1.85	0.42
4:3E:131:ARG:O	4:3E:133:VAL:HG23	2.19	0.42
5:4E:20:GLN:O	5:4E:22:GLY:N	2.52	0.42
5:4E:28:PHE:O	5:4E:47:LYS:HA	2.19	0.42
6:5E:4:TYR:O	6:5E:6:VAL:HG23	2.19	0.42
9:8E:13:ALA:HB1	9:8E:73:GLN:HG2	2.01	0.42
19:AI:33:THR:HG1	19:AI:35:SER:H	1.61	0.42
22:1K:53:G:C2	22:1K:54:G:C8	3.07	0.42
24:3K:6:G:C6	24:3K:7:A:N6	2.88	0.42
24:3K:71:G:C2	24:3K:72:C:H1'	2.54	0.42
26:1H:90:U:H4'	26:1H:91:A:H5'	2.00	0.42
26:1H:281:G:O2'	26:1H:282:A:O4'	2.35	0.42
26:1H:396:G:O3'	49:J8:44:PRO:HA	2.20	0.42
26:1H:501:A:H2'	26:1H:502:A:C8	2.54	0.42
26:1H:593:G:C6	26:1H:594:U:C4	3.08	0.42
26:1H:731:C:P	59:1H:3597:HOH:O	2.72	0.42
26:1H:761:A:H5"	59:1H:3596:HOH:O	2.19	0.42
26:1H:878:A:H4'	26:1H:878:A:OP1	2.20	0.42
26:1H:1029:A:H1'	26:1H:2486:G:H1'	2.01	0.42
26:1H:1381:G:H2'	26:1H:1382:G:H5'	2.00	0.42
26:1H:1496:A:C8	26:1H:1577:C:O2'	2.72	0.42
26:1H:1526:G:H2'	26:1H:1527:G:O4'	2.19	0.42
26:1H:1551:C:H2'	26:1H:1552:G:H8	1.84	0.42
26:1H:1706:U:O2	26:1H:1757:U:H5'	2.19	0.42
26:1H:2157:G:N3	26:1H:2158:A:H2	2.18	0.42
26:1H:2497:A:H5"	59:1H:3792:HOH:O	2.19	0.42
26:1H:2646:C:H2'	26:1H:2647:U:O4'	2.20	0.42
29:11:112:GLN:N	29:11:115:GLN:OE1	2.43	0.42
30:21:201:THR:HG22	30:21:202:LYS:H	1.85	0.42
33:51:95:ARG:HB3	33:51:95:ARG:HH11	1.85	0.42
36:68:24:VAL:HB	36:68:33:ALA:HB2	2.01	0.42
37:78:25:SER:C	37:78:27:HIS:H	2.26	0.42
41:B8:3:ARG:HD2	41:B8:6:LEU:C	2.44	0.42
41:B8:48:ILE:HG22	41:B8:49:VAL:C	2.45	0.42
41:B8:91:ARG:HD2	41:B8:120:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:91:ASP:O	42:C8:92:ARG:C	2.61	0.42
42:C8:92:ARG:HB2	43:D8:11:GLN:NE2	2.34	0.42
50:K8:7:ARG:CA	50:K8:10:LEU:HB2	2.49	0.42
1:1G:219:C:H2'	1:1G:220:G:O4'	2.20	0.42
1:1G:382:A:H8	1:1G:382:A:O5'	2.02	0.42
1:1G:772:U:C4	1:1G:773:G:N7	2.87	0.42
1:1G:866:C:O2'	1:1G:919:A:OP1	2.37	0.42
1:1G:1129:C:C4	1:1G:1139:G:N1	2.88	0.42
1:1G:1149:C:O5'	1:1G:1149:C:H6	2.02	0.42
2:12:33:TYR:HD1	2:12:33:TYR:HA	1.70	0.42
3:22:42:LEU:HD12	3:22:42:LEU:HA	1.72	0.42
8:72:50:ARG:H	8:72:50:ARG:HG3	1.48	0.42
16:7A:21:VAL:O	16:7A:33:ILE:HG12	2.19	0.42
17:8A:19:VAL:HG23	17:8A:44:ALA:HB3	2.01	0.42
21:1B:3:LYS:O	21:1B:14:TRP:CE3	2.72	0.42
26:14:299:A:O2'	26:14:319:C:H4'	2.19	0.42
26:14:395:U:H2'	26:14:396:G:C8	2.55	0.42
26:14:1063:G:H1'	26:14:1076:C:N3	2.34	0.42
26:14:1207:C:H2'	26:14:1208:C:H6	1.83	0.42
26:14:1401:G:C5	26:14:1402:C:C5	3.08	0.42
26:14:1632:A:H8	26:14:1632:A:O5'	2.02	0.42
26:14:1834:U:O2	26:14:1834:U:H2'	2.17	0.42
26:14:1889:A:N3	26:14:2086:U:O2'	2.49	0.42
26:14:1902:C:C5	26:14:1903:G:C8	3.08	0.42
26:14:2092:U:C6	26:14:2225:A:O2'	2.72	0.42
26:14:2358:G:C5	26:14:2359:C:C5	3.08	0.42
26:14:2414:G:N2	37:35:67:MET:HE1	2.32	0.42
26:14:2436:G:C6	26:14:2437:U:C4	3.07	0.42
26:14:2439:A:C8	26:14:2439:A:C5'	3.02	0.42
27:1J:66:A:C2	27:1J:108:C:C4	3.08	0.42
30:29:103:ASP:OD2	30:29:168:MET:HE2	2.19	0.42
30:29:109:LYS:HE2	30:29:191:PRO:CA	2.47	0.42
30:29:128:SER:OG	30:29:129:HIS:N	2.52	0.42
31:39:83:PHE:C	31:39:85:GLY:N	2.78	0.42
37:35:14:LYS:C	37:35:16:ARG:H	2.27	0.42
38:45:25:ASP:CB	38:45:102:VAL:H	2.33	0.42
38:45:37:LEU:O	38:45:99:PRO:HB3	2.20	0.42
48:E5:17:GLN:CB	48:E5:19:LYS:HZ1	2.33	0.42
1:13:43:C:H2'	1:13:44:G:O4'	2.19	0.42
1:13:559:A:H2'	1:13:559:A:N3	2.35	0.42
1:13:706:A:H2'	1:13:707:C:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:954:G:H21	1:13:1227:A:H62	1.66	0.42
1:13:1298:C:N4	7:6E:114:ARG:HB3	2.34	0.42
1:13:1304:G:C6	1:13:1305:G:N1	2.88	0.42
2:1E:36:ARG:HA	2:1E:36:ARG:HD2	1.82	0.42
3:2E:6:HIS:CD2	14:5I:49:HIS:HB3	2.54	0.42
4:3E:8:VAL:CG1	4:3E:21:LEU:HD13	2.50	0.42
4:3E:154:ASN:O	4:3E:159:ARG:HG3	2.20	0.42
8:7E:16:ALA:HB1	8:7E:24:THR:HG21	2.02	0.42
10:1I:78:ASN:HB2	10:1I:81:THR:HG23	2.02	0.42
14:5I:11:LYS:C	14:5I:13:THR:H	2.27	0.42
16:7I:13:HIS:C	16:7I:15:PRO:HD3	2.45	0.42
24:3K:50:U:N3	24:3K:65:G:N3	2.66	0.42
26:1H:74:A:C5’	26:1H:74:A:H8	2.33	0.42
26:1H:92:G:H2’	26:1H:93:C:H6	1.84	0.42
26:1H:203:C:O5’	26:1H:203:C:H6	2.03	0.42
26:1H:221:A:H5’	26:1H:233:A:O2’	2.19	0.42
26:1H:328:U:O2’	46:G8:71:LYS:HD3	2.20	0.42
26:1H:424:G:C2	26:1H:425:G:C8	3.07	0.42
26:1H:1068:G:H1’	26:1H:1096:A:N3	2.35	0.42
26:1H:1072:C:H2’	26:1H:1093:G:O6	2.19	0.42
26:1H:1364:G:N7	49:J8:2:SER:HB3	2.35	0.42
26:1H:1729:A:C4	26:1H:1731:G:C6	3.08	0.42
26:1H:1922:G:H2’	26:1H:1923:U:C6	2.55	0.42
26:1H:2037:G:H2’	26:1H:2038:G:C8	2.54	0.42
26:1H:2088:G:C6	26:1H:2089:U:C4	3.08	0.42
26:1H:2124:G:H2’	26:1H:2125:G:H5’	2.02	0.42
26:1H:2130:U:O2	26:1H:2159:G:N2	2.51	0.42
26:1H:2257:U:C4	26:1H:2258:C:N4	2.87	0.42
26:1H:2373:G:H1	26:1H:2380:C:N4	2.17	0.42
26:1H:2516:G:C6	26:1H:2517:C:N4	2.88	0.42
26:1H:2820:A:P	39:98:2:ARG:NH2	2.93	0.42
27:16:2:C:H2’	27:16:3:C:C6	2.54	0.42
27:16:14:U:OP2	27:16:71:C:H5’	2.20	0.42
27:16:28:C:OP1	40:A8:36:TYR:OH	2.36	0.42
27:16:42:C:O2	32:41:92:VAL:HA	2.20	0.42
29:11:52:ARG:HH11	29:11:52:ARG:HD3	1.71	0.42
30:21:49:LEU:HD12	30:21:49:LEU:HA	1.66	0.42
31:31:182:ASN:OD1	31:31:185:ASP:N	2.40	0.42
35:58:56:ASN:C	35:58:57:ALA:O	2.58	0.42
40:A8:74:ALA:O	40:A8:77:ALA:N	2.53	0.42
42:C8:65:ILE:O	42:C8:68:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:90:VAL:HG22	43:D8:39:LEU:HG	2.01	0.42
46:G8:76:CYS:CB	46:G8:97:ARG:HG2	2.49	0.42
50:K8:37:PHE:H	50:K8:37:PHE:HD1	1.67	0.42
1:1G:78:G:C2	1:1G:79:G:N7	2.87	0.42
1:1G:552:U:C2'	1:1G:553:A:H5'	2.50	0.42
1:1G:685:G:N1	1:1G:686:U:O4	2.52	0.42
1:1G:899:C:O5'	1:1G:899:C:H6	2.02	0.42
1:1G:954:G:O5'	1:1G:954:G:H8	2.02	0.42
1:1G:1275:A:C4	1:1G:1276:G:C8	3.07	0.42
1:1G:1289:A:N6	1:1G:1371:G:HO2'	2.18	0.42
3:22:9:GLY:N	14:5A:49:HIS:O	2.53	0.42
3:22:112:SER:O	3:22:115:LEU:HB2	2.19	0.42
5:42:51:VAL:O	5:42:55:VAL:HG23	2.19	0.42
5:42:146:ALA:HB1	5:42:150:ARG:HH21	1.83	0.42
7:62:113:GLU:HB2	7:62:119:ARG:CD	2.49	0.42
8:72:87:SER:HB2	8:72:93:VAL:HB	2.01	0.42
16:7A:31:LYS:HG2	16:7A:32:TYR:N	2.33	0.42
19:AA:7:LYS:HE2	19:AA:10:PHE:CE2	2.55	0.42
26:14:327:G:C2	26:14:328:U:C2	3.08	0.42
26:14:383:U:H2'	26:14:385:C:H5	1.84	0.42
26:14:459:U:H5"	54:L5:40:TRP:CD2	2.55	0.42
26:14:996:A:N6	26:14:1160:G:C6	2.87	0.42
26:14:1213:A:N3	26:14:1238:G:O2'	2.42	0.42
26:14:1392:A:N6	26:14:1393:A:N6	2.68	0.42
26:14:1466:G:H5'	26:14:1467:C:OP1	2.19	0.42
26:14:1477:A:H2'	26:14:1478:G:O4'	2.19	0.42
26:14:1748:G:C2	26:14:1749:A:C4	3.07	0.42
26:14:1784:A:H4'	26:14:1785:A:H5"	2.01	0.42
26:14:1796:U:H4'	29:19:256:GLY:N	2.34	0.42
26:14:2022:U:O2'	26:14:2617:C:H5'	2.19	0.42
26:14:2134:A:N3	26:14:2159:G:H1'	2.35	0.42
27:1J:12:C:O2	48:E5:74:ARG:NE	2.52	0.42
29:19:16:MET:HE2	29:19:211:ARG:HD3	2.01	0.42
35:15:35:ARG:H	35:15:35:ARG:HG2	1.71	0.42
36:25:96:THR:OG1	36:25:97:ARG:N	2.51	0.42
38:45:69:PHE:HA	38:45:70:PRO:HD2	1.85	0.42
38:45:89:ASN:O	38:45:91:GLU:N	2.52	0.42
41:75:8:LYS:O	41:75:11:GLU:N	2.30	0.42
43:95:37:VAL:CG2	43:95:57:VAL:H	2.32	0.42
47:D5:9:TYR:HA	47:D5:37:VAL:HG12	2.01	0.42
48:E5:49:LYS:NZ	48:E5:68:GLU:OE2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:H5:28:LEU:HD23	51:H5:28:LEU:HA	1.76	0.42
52:I5:61:ARG:HA	52:I5:61:ARG:NE	2.34	0.42
55:M5:57:ARG:H	55:M5:57:ARG:CD	2.33	0.42
1:13:267:C:H2'	1:13:268:C:C6	2.54	0.42
1:13:465:A:N7	1:13:467:G:C5	2.88	0.42
1:13:639:G:C2	1:13:640:A:C8	3.08	0.42
1:13:872:A:C5	1:13:874:G:C8	3.08	0.42
1:13:940:C:H2'	1:13:941:G:C8	2.54	0.42
1:13:1163:C:H2'	1:13:1164:G:H8	1.84	0.42
1:13:1171:G:H2'	1:13:1172:C:C6	2.54	0.42
1:13:1313:U:O4	19:AI:4:SER:OG	2.26	0.42
2:1E:17:PHE:HB3	2:1E:44:LEU:HD11	2.00	0.42
2:1E:208:ILE:HA	2:1E:211:ILE:HD12	2.02	0.42
14:5I:6:LEU:HA	14:5I:6:LEU:HD23	1.75	0.42
19:AI:40:ILE:HA	19:AI:44:MET:HE3	2.00	0.42
26:1H:105:C:H2'	26:1H:106:C:H6	1.85	0.42
26:1H:414:C:OP1	26:1H:1879:C:O2'	2.28	0.42
26:1H:918:A:O2'	27:16:96:G:N2	2.50	0.42
26:1H:1519:G:H2'	26:1H:1520:U:O4'	2.20	0.42
26:1H:1542:G:O6	26:1H:1543:A:N6	2.52	0.42
26:1H:1569:A:H5'	29:11:61:LEU:CD2	2.40	0.42
26:1H:1632:A:C8	59:1H:4384:HOH:O	2.63	0.42
26:1H:2246:G:H2'	26:1H:2247:A:C8	2.55	0.42
26:1H:2574:G:H5"	59:1H:4377:HOH:O	2.20	0.42
26:1H:2839:G:C5	26:1H:2840:C:C4	3.07	0.42
26:1H:2862:G:H2'	26:1H:2863:C:C6	2.53	0.42
26:1H:2888:C:O2'	26:1H:2889:C:H5'	2.20	0.42
27:16:11:C:O5'	27:16:12:C:H5	2.03	0.42
27:16:49:C:OP1	40:A8:97:ARG:HB2	2.19	0.42
27:16:99:A:C4	27:16:100:G:C8	3.08	0.42
28:71:26:ALA:HB2	28:71:189:ILE:CD1	2.49	0.42
30:21:119:ARG:NH1	30:21:156:MET:O	2.53	0.42
31:31:150:GLY:HA2	31:31:172:TRP:CE3	2.54	0.42
31:31:192:LEU:HD21	31:31:194:MET:CE	2.42	0.42
32:41:6:ALA:O	32:41:9:ARG:HB2	2.19	0.42
35:58:95:PRO:O	35:58:96:GLU:CD	2.63	0.42
38:88:45:GLN:OE1	38:88:45:GLN:N	2.53	0.42
38:88:81:VAL:C	38:88:82:ARG:HD2	2.43	0.42
45:F8:31:HIS:HA	45:F8:32:PRO:HD3	1.81	0.42
47:H8:40:ASP:OD2	47:H8:43:GLU:HG2	2.20	0.42
48:I8:19:LYS:HD3	48:I8:19:LYS:HA	1.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M8:36:CYS:O	52:M8:41:PRO:HD2	2.19	0.42
1:1G:420:U:O2'	1:1G:423:G:O6	2.31	0.42
1:1G:720:C:H2'	1:1G:721:G:N7	2.34	0.42
1:1G:922:G:N3	1:1G:1398:A:H2	2.18	0.42
1:1G:1014:A:P	1:1G:1014:A:H8	2.42	0.42
1:1G:1086:U:O5'	1:1G:1086:U:H6	2.02	0.42
1:1G:1127:G:H1'	1:1G:1148:U:N3	2.34	0.42
1:1G:1399:C:C2	1:1G:1502:A:N6	2.87	0.42
2:12:88:ALA:HB2	2:12:219:VAL:HG23	2.00	0.42
2:12:149:LEU:CD2	2:12:152:PHE:HB3	2.48	0.42
4:32:100:ARG:HH21	4:32:102:ASP:CG	2.27	0.42
5:42:70:PRO:O	5:42:77:PRO:HD3	2.20	0.42
8:72:21:LYS:H	8:72:65:TYR:HH	1.65	0.42
15:6A:54:ARG:O	15:6A:58:MET:HG3	2.20	0.42
19:AA:29:ARG:HD3	19:AA:48:THR:OG1	2.20	0.42
26:14:273(C):C:N3	26:14:363(C):G:N2	2.65	0.42
26:14:464:U:H2'	26:14:465:G:O4'	2.19	0.42
26:14:1032:A:H2	26:14:1122:G:H22	1.65	0.42
26:14:1884:A:C2	26:14:1885:A:C8	3.07	0.42
26:14:2053:G:N3	26:14:2053:G:H2'	2.34	0.42
29:19:181:GLU:HG3	29:19:272:ALA:CB	2.50	0.42
29:19:245:PRO:HA	29:19:246:PRO:HD3	1.74	0.42
30:29:103:ASP:CG	30:29:168:MET:HE2	2.45	0.42
33:59:68:THR:HG22	33:59:72:ILE:HD11	2.01	0.42
35:15:91:LEU:O	35:15:95:PRO:HB3	2.19	0.42
38:45:97:VAL:HG21	38:45:103:MET:HE3	2.00	0.42
43:95:21:ARG:HE	43:95:91:TYR:CB	2.32	0.42
44:A5:65:LEU:HD23	44:A5:65:LEU:HA	1.85	0.42
47:D5:74:VAL:HA	47:D5:86:VAL:CG2	2.50	0.42
55:M5:60:LEU:HB2	55:M5:61:LEU:H	1.41	0.42
1:13:262:A:H5"	1:13:263:A:OP2	2.19	0.42
1:13:271:C:O2'	1:13:272:C:H5'	2.20	0.42
1:13:1010:G:C6	1:13:1011:G:C5	3.08	0.42
1:13:1021:G:OP2	1:13:1021:G:H8	2.02	0.42
1:13:1372:U:H2'	1:13:1373:G:O4'	2.20	0.42
1:13:1418:A:C2	1:13:1483:A:C2	3.08	0.42
2:1E:57:PHE:O	2:1E:60:ASP:HB2	2.20	0.42
13:4I:94:ARG:HA	13:4I:94:ARG:HD3	1.55	0.42
15:6I:4:THR:O	15:6I:8:LYS:N	2.51	0.42
16:7I:33:ILE:HG13	16:7I:33:ILE:H	1.47	0.42
25:4K:23:A:N1	25:4K:24:A:N6	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:7:G:H2'	26:1H:8:A:O4'	2.19	0.42
26:1H:438:G:H2'	26:1H:439:G:H8	1.85	0.42
26:1H:847:U:C4	26:1H:933:A:N1	2.87	0.42
26:1H:1060:U:H5'	26:1H:1061:U:C5	2.55	0.42
26:1H:1221:C:C2	26:1H:1222:C:C5	3.07	0.42
26:1H:1516:U:C2	26:1H:1517:G:C8	3.08	0.42
26:1H:1970:A:OP1	59:1H:4400:HOH:O	2.21	0.42
26:1H:2075:U:C4	26:1H:2238:G:C6	3.08	0.42
26:1H:2091:U:O2'	49:J8:47:GLN:HG3	2.19	0.42
26:1H:2143:C:H2'	26:1H:2144:U:O4'	2.20	0.42
26:1H:2472:G:H2'	26:1H:2475:C:H42	1.85	0.42
26:1H:2707:G:H5"	39:98:68:ARG:HH21	1.85	0.42
27:16:1(M):A:H2'	27:16:1(M):A:N3	2.34	0.42
27:16:27:C:O3'	40:A8:36:TYR:OH	2.37	0.42
28:71:58:VAL:HG23	28:71:201:PRO:HG3	2.01	0.42
29:11:126:GLN:O	29:11:193:VAL:HG22	2.18	0.42
31:31:102:PRO:HB2	31:31:105:VAL:HG23	2.02	0.42
31:31:111:ALA:O	31:31:112:MET:C	2.62	0.42
32:41:12:TYR:HA	32:41:16:ARG:HG3	2.01	0.42
32:41:145:THR:O	32:41:146:TYR:HB3	2.19	0.42
33:51:86:GLU:HG2	33:51:87:LEU:N	2.29	0.42
33:51:92:ILE:H	33:51:92:ILE:HG13	1.42	0.42
37:78:91:PHE:HE2	37:78:99:LEU:HD12	1.84	0.42
37:78:94:GLU:O	37:78:124:LYS:O	2.37	0.42
39:98:38:VAL:HG22	39:98:112:ALA:HB2	2.02	0.42
40:A8:78:LEU:HD12	40:A8:108:GLY:CA	2.50	0.42
40:A8:109:GLY:C	40:A8:110:LEU:HG	2.44	0.42
42:C8:83:LEU:HG	42:C8:88:ILE:HB	2.02	0.42
43:D8:79:VAL:HG13	43:D8:81:TYR:HB3	2.01	0.42
45:F8:28:PHE:CD1	45:F8:28:PHE:N	2.86	0.42
47:H8:69:THR:HG22	47:H8:90:VAL:HA	2.02	0.42
49:J8:97:LEU:HG	49:J8:98:LEU:HG	2.02	0.42
50:K8:48:HIS:N	50:K8:50:ILE:HD11	2.35	0.42
52:M8:2:LYS:HD3	52:M8:2:LYS:HA	1.59	0.42
52:M8:42:PHE:O	52:M8:43:TYR:HB3	2.19	0.42
52:M8:58:ARG:O	52:M8:60:GLN:N	2.53	0.42
1:1G:137:C:C2	1:1G:227:G:N2	2.88	0.42
1:1G:418:C:N4	1:1G:425:G:H1	2.17	0.42
1:1G:561:U:O2'	1:1G:562:C:P	2.78	0.42
1:1G:1249:C:H41	1:1G:1287:A:H5'	1.85	0.42
1:1G:1428:A:H2'	1:1G:1429:C:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:22:38:ARG:O	3:22:42:LEU:N	2.27	0.42
5:42:18:ARG:NH2	5:42:25:ARG:HB3	2.34	0.42
5:42:26:PHE:CD1	5:42:26:PHE:N	2.88	0.42
6:52:38:GLU:OE1	6:52:64:GLN:HG2	2.17	0.42
8:72:29:SER:HB3	8:72:32:LYS:H	1.84	0.42
14:5A:32:SER:O	14:5A:40:CYS:HA	2.19	0.42
24:3L:65:G:H2'	24:3L:66:U:C5	2.55	0.42
26:14:318:C:H2'	26:14:319:C:C6	2.55	0.42
26:14:320:A:H5"	26:14:321:G:OP1	2.20	0.42
26:14:328:U:H4'	46:C5:68:HIS:HD2	1.79	0.42
26:14:654(C):G:C2	26:14:654(S):G:C2	3.08	0.42
26:14:777:A:O2'	26:14:778:G:H5'	2.20	0.42
26:14:831:G:H5"	26:14:832:G:OP2	2.20	0.42
26:14:1051:G:H8	26:14:1051:G:OP2	2.03	0.42
26:14:1441:G:H2'	26:14:1442:G:C8	2.55	0.42
26:14:1620:G:O4'	54:L5:1:MET:N	2.51	0.42
26:14:1657:C:H2'	26:14:1658:C:C6	2.54	0.42
26:14:2271:G:C5	26:14:2272:U:C4	3.08	0.42
26:14:2335:A:C8	26:14:2337:G:N7	2.88	0.42
26:14:2641:G:C2	26:14:2642:G:C4	3.08	0.42
27:1J:7:G:H3'	27:1J:8:U:H5"	2.01	0.42
30:29:31:CYS:CB	30:29:49:LEU:HB3	2.50	0.42
30:29:116:VAL:HG11	30:29:138:PRO:HB3	2.01	0.42
31:39:117:ARG:HA	31:39:117:ARG:HD3	1.91	0.42
31:39:126:VAL:HG13	31:39:193:VAL:HG23	2.02	0.42
32:49:7:LEU:HD23	32:49:7:LEU:HA	1.89	0.42
33:59:58:GLU:O	33:59:61:HIS:N	2.53	0.42
41:75:55:ASN:OD1	41:75:58:ASN:HB2	2.20	0.42
46:C5:17:SER:C	46:C5:21:LYS:HB2	2.44	0.42
1:13:189:U:H2'	17:8I:63:ARG:HH22	1.85	0.42
1:13:302:G:C6	1:13:303:A:C5	3.07	0.42
1:13:464:G:O6	1:13:466:C:H4'	2.20	0.42
1:13:536:C:H2'	1:13:537:G:C8	2.54	0.42
1:13:807:A:H2'	1:13:808:C:H6	1.84	0.42
1:13:967:C:H6	1:13:967:C:O5'	2.03	0.42
1:13:1174:G:N1	1:13:1175:G:C5	2.88	0.42
1:13:1393:U:O2'	1:13:1394:A:H2'	2.20	0.42
4:3E:206:PHE:HD2	4:3E:207:TYR:CD1	2.37	0.42
8:7E:33:GLU:OE2	8:7E:50:ARG:NH2	2.53	0.42
12:3I:60:LEU:HD13	12:3I:60:LEU:HA	1.81	0.42
13:4I:27:LYS:O	13:4I:30:ALA:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4I:30:ALA:C	13:4I:32:GLU:H	2.28	0.42
26:1H:256:A:OP2	59:1H:4313:HOH:O	2.22	0.42
26:1H:566:U:H2'	26:1H:567:A:O4'	2.18	0.42
26:1H:617:G:OP1	31:31:40:GLN:NE2	2.53	0.42
26:1H:643:A:C2	26:1H:644:A:C4	3.07	0.42
26:1H:729:G:H2'	26:1H:1775:U:O2	2.19	0.42
26:1H:879:G:N1	26:1H:898:C:C4	2.88	0.42
26:1H:1193:G:H2'	26:1H:1194:A:C8	2.55	0.42
26:1H:1231:G:H2'	26:1H:1232:G:C8	2.55	0.42
26:1H:1733:G:H2'	26:1H:1734:C:O4'	2.20	0.42
26:1H:1968:G:P	59:1H:4408:HOH:O	2.77	0.42
26:1H:2144:U:H1'	26:1H:2148:G:N2	2.35	0.42
26:1H:2206:C:H2'	26:1H:2207:C:H6	1.85	0.42
26:1H:2319:G:C5	40:A8:3:ARG:HD3	2.55	0.42
26:1H:2562:U:C1'	36:68:23:ARG:HD3	2.50	0.42
26:1H:2747:G:H1	26:1H:2754:U:H2'	1.83	0.42
28:71:7:TYR:CD1	28:71:7:TYR:C	2.97	0.42
29:11:257:LEU:HD23	29:11:257:LEU:HA	1.82	0.42
31:31:117:ARG:HD2	31:31:117:ARG:HA	1.79	0.42
33:51:136:ILE:H	33:51:136:ILE:HD12	1.85	0.42
33:51:170:ARG:NE	33:51:170:ARG:HA	2.33	0.42
36:68:2:ILE:CG2	36:68:8:LEU:HD21	2.49	0.42
37:78:1:MET:HE3	37:78:2:LYS:H	1.85	0.42
39:98:105:ARG:C	39:98:107:ASP:H	2.27	0.42
40:A8:25:ARG:NH2	40:A8:40:ILE:HD12	2.34	0.42
41:B8:26:ASP:CB	41:B8:91:ARG:HA	2.49	0.42
41:B8:52:ILE:HG13	41:B8:61:PHE:HB3	2.02	0.42
43:D8:35:LEU:HB2	43:D8:37:VAL:CG2	2.50	0.42
43:D8:78:LYS:HE3	43:D8:78:LYS:HB2	1.73	0.42
48:I8:25:ARG:HD3	48:I8:29:GLN:NE2	2.34	0.42
48:I8:49:LYS:HG3	48:I8:80:HIS:CG	2.55	0.42
55:Q8:25:MET:HE3	55:Q8:46:ARG:HB2	2.02	0.42
1:1G:416:G:H2'	1:1G:417:C:C6	2.55	0.42
1:1G:616:G:N2	1:1G:625:G:C4	2.88	0.42
1:1G:675:A:H1'	11:2A:116:HIS:CG	2.55	0.42
1:1G:974:A:P	14:5A:41:ARG:HH12	2.42	0.42
1:1G:977:A:H2'	1:1G:978:A:H5"	2.02	0.42
1:1G:1341:U:H3'	1:1G:1341:U:C6	2.55	0.42
1:1G:1368:G:O2'	1:1G:1369:C:H5'	2.20	0.42
1:1G:1383:C:O4'	24:3L:34:G:C8	2.73	0.42
1:1G:1422:G:O3'	36:25:49:ARG:NH1	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:61:LEU:HD23	2:12:68:ILE:HD11	2.02	0.42
8:72:45:ILE:C	8:72:47:GLY:H	2.25	0.42
14:5A:26:ARG:O	14:5A:27:CYS:HB3	2.20	0.42
19:AA:67:VAL:HG11	52:I5:56:VAL:HG23	2.02	0.42
26:14:337:C:H2'	26:14:338:G:O4'	2.19	0.42
26:14:862:G:H22	26:14:916:G:H1'	1.84	0.42
26:14:946:G:H2'	26:14:947:G:C8	2.55	0.42
26:14:970:C:H2'	26:14:971:C:H6	1.85	0.42
26:14:1324:G:C2	26:14:1328:G:N1	2.88	0.42
26:14:1903:G:N2	26:14:1904:G:C4	2.88	0.42
26:14:2376:A:H2'	26:14:2377:A:C8	2.54	0.42
26:14:2591:C:C2'	26:14:2592:G:H5'	2.50	0.42
26:14:2630:G:H21	26:14:2894:G:H22	1.66	0.42
26:14:2877:G:H8	26:14:2877:G:O5'	2.01	0.42
30:29:87:GLU:OE2	30:29:88:GLY:N	2.53	0.42
32:49:121:ASN:HB2	32:49:181:ARG:HH22	1.85	0.42
33:59:81:GLU:CD	33:59:83:TYR:HB3	2.45	0.42
34:69:98:ALA:HA	34:69:109:ILE:HD11	2.01	0.42
37:35:98:GLU:O	37:35:102:ARG:HG3	2.20	0.42
40:65:8:GLU:O	40:65:12:PHE:HB2	2.20	0.42
46:C5:96:ILE:HG23	46:C5:102:CYS:O	2.20	0.42
50:G5:17:SER:N	50:G5:20:GLU:OE1	2.36	0.42
50:G5:21:LEU:O	50:G5:25:VAL:HG22	2.20	0.42
1:13:15:G:H4'	5:4E:24:ARG:NH1	2.34	0.42
1:13:52:G:C4	1:13:53:A:C8	3.08	0.42
1:13:101:A:H8	1:13:101:A:OP2	2.03	0.42
1:13:159:G:H2'	1:13:161:A:OP2	2.20	0.42
1:13:569:C:H5"	1:13:570:G:OP1	2.20	0.42
1:13:963:G:C2	10:1I:55:LYS:NZ	2.88	0.42
1:13:967:C:H4'	9:8E:125:TYR:HE1	1.85	0.42
1:13:972:C:H4'	10:1I:57:LYS:HB2	2.01	0.42
1:13:1190:G:P	3:2E:4:LYS:HA	2.60	0.42
1:13:1273:G:H5'	1:13:1274:G:OP2	2.20	0.42
1:13:1394:A:C5	1:13:1501:C:H4'	2.55	0.42
1:13:1477:C:H2'	1:13:1478:C:C6	2.55	0.42
2:1E:153:ARG:HE	2:1E:153:ARG:HB2	1.68	0.42
2:1E:178:ARG:HH21	8:7E:74:PRO:HB3	1.85	0.42
7:6E:26:PHE:CD2	7:6E:30:ILE:HD11	2.55	0.42
20:BI:10:LEU:HG	20:BI:11:SER:N	2.34	0.42
22:1K:10:G:C6	22:1K:11:A:N6	2.88	0.42
23:2K:32:G:H2'	23:2K:33:OMC:H6	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:3K:5:G:N2	24:3K:69:G:C5	2.88	0.42
24:3K:34:G:C4	25:4K:14:A:C6	3.08	0.42
26:1H:58:G:C2	26:1H:70:G:C6	3.08	0.42
26:1H:97:C:H5"	50:K8:3:LEU:CA	2.50	0.42
26:1H:315:G:C6	26:1H:316:C:C4	3.08	0.42
26:1H:459:U:H5"	54:P8:40:TRP:CD2	2.55	0.42
26:1H:654(H):G:N7	26:1H:654(N):G:N2	2.58	0.42
26:1H:1263:U:H2'	26:1H:1264:G:O4'	2.20	0.42
26:1H:1639:U:H4'	26:1H:2699:C:H4'	2.02	0.42
26:1H:2283:C:C5	26:1H:2284:C:C5	3.07	0.42
26:1H:2501:C:H6	26:1H:2501:C:H2'	1.66	0.42
26:1H:2564:A:C2	26:1H:2647:U:H4'	2.54	0.42
31:31:53:THR:C	31:31:55:GLY:H	2.28	0.42
32:41:72:ARG:HA	32:41:87:PRO:HA	2.02	0.42
32:41:116:ASP:HB3	32:41:117:PHE:H	1.59	0.42
33:51:6:ARG:HA	33:51:66:GLY:HA2	2.02	0.42
33:51:26:VAL:HB	33:51:33:LEU:O	2.20	0.42
34:61:132:PRO:O	34:61:133:HIS:ND1	2.53	0.42
38:88:1:MET:HE1	38:88:45:GLN:HB3	2.02	0.42
41:B8:50:ILE:HD12	41:B8:50:ILE:HA	1.77	0.42
42:C8:18:LEU:HD11	42:C8:32:PHE:HA	2.02	0.42
42:C8:59:ARG:O	42:C8:63:VAL:HG23	2.19	0.42
43:D8:21:ARG:HB3	43:D8:91:TYR:CD2	2.55	0.42
43:D8:34:GLU:O	43:D8:36:PRO:HD3	2.19	0.42
44:E8:29:LEU:O	44:E8:33:ARG:HB2	2.20	0.42
46:G8:78:ALA:HB3	46:G8:79:CYS:SG	2.60	0.42
51:L8:31:LEU:O	51:L8:32:GLN:HB2	2.18	0.42
53:N8:50:GLY:H	53:N8:56:LYS:CG	2.29	0.42
1:1G:18:C:H6	1:1G:18:C:O5'	2.03	0.42
1:1G:134:A:H61	16:7A:25:ARG:NH1	2.18	0.42
1:1G:192:U:H2'	1:1G:193:C:H6	1.85	0.42
1:1G:491:G:C4	1:1G:492:G:C8	3.08	0.42
1:1G:563:A:C6	1:1G:567:G:N3	2.88	0.42
1:1G:658:G:H2'	1:1G:659:U:C6	2.55	0.42
1:1G:763:G:H2'	1:1G:764:C:H6	1.85	0.42
1:1G:775:G:O2'	1:1G:776:G:H5'	2.20	0.42
1:1G:1062:U:H2'	1:1G:1063:C:C6	2.54	0.42
1:1G:1255:G:N2	1:1G:1276:G:H22	2.14	0.42
2:12:145:LEU:O	2:12:149:LEU:HB2	2.20	0.42
3:22:44:GLU:HA	3:22:52:LEU:HD11	2.01	0.42
3:22:61:ALA:C	3:22:63:ASN:N	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:82:5:TYR:HA	9:82:17:VAL:O	2.20	0.42
9:82:42:ARG:HE	9:82:42:ARG:HB2	1.13	0.42
12:3A:69:TYR:HD2	12:3A:99:HIS:CD2	2.37	0.42
13:4A:3:ARG:HG2	13:4A:9:ILE:HG12	2.01	0.42
15:6A:12:ILE:H	15:6A:12:ILE:HG13	1.59	0.42
17:8A:45:HIS:O	17:8A:73:VAL:HG12	2.20	0.42
24:3L:36:A:H5'	24:3L:37:MIA:OP2	2.20	0.42
26:14:286:C:H2'	26:14:287:C:C6	2.55	0.42
26:14:463:G:N2	26:14:465:G:H3'	2.33	0.42
26:14:897:C:N4	26:14:898:C:H41	2.17	0.42
26:14:1072:C:O2	26:14:1092:C:H5	2.02	0.42
26:14:1198:U:C2	26:14:1199:U:C5	3.08	0.42
26:14:1343:G:O2'	26:14:1344:G:H5'	2.20	0.42
26:14:1465:G:C6	26:14:1466:G:N7	2.88	0.42
26:14:1516:U:H2'	26:14:1517:G:C8	2.55	0.42
26:14:1936:A:C8	26:14:1940:U:O2	2.73	0.42
26:14:2652:C:H2'	26:14:2653:U:O4'	2.19	0.42
26:14:2816:C:N4	26:14:2830:G:H1	2.17	0.42
27:1J:11:C:H3'	27:1J:12:C:C6	2.55	0.42
29:19:270:ILE:H	29:19:270:ILE:HG12	1.51	0.42
39:55:97:VAL:HA	39:55:113:LEU:O	2.20	0.42
47:D5:54:HIS:NE2	47:D5:123:ASP:OD2	2.52	0.42
48:E5:37:LEU:HD12	48:E5:60:PHE:C	2.45	0.42
55:M5:14:VAL:HG11	55:M5:22:VAL:CG1	2.38	0.42
55:M5:46:ARG:HE	55:M5:46:ARG:HB3	1.44	0.42
1:13:397:A:H5'	1:13:398:C:OP1	2.20	0.41
1:13:501:C:H1'	1:13:549:C:H1'	2.02	0.41
1:13:730:G:C6	1:13:731:G:H1'	2.55	0.41
1:13:942:G:C2	1:13:1342:C:C2	3.08	0.41
1:13:1309:G:C6	1:13:1329:A:C2	3.08	0.41
3:2E:27:LYS:HA	3:2E:27:LYS:HD3	1.77	0.41
3:2E:46:GLU:HB2	3:2E:47:LEU:HD12	2.02	0.41
5:4E:16:THR:OG1	5:4E:17:ALA:N	2.50	0.41
5:4E:33:VAL:HG11	5:4E:109:ILE:HA	2.01	0.41
11:2I:98:LEU:O	11:2I:99:GLN:C	2.63	0.41
19:AI:64:GLU:O	19:AI:67:VAL:HG13	2.19	0.41
26:1H:299:A:H62	26:1H:300:A:H61	1.68	0.41
26:1H:533:G:OP1	42:C8:25:TRP:N	2.45	0.41
26:1H:663:G:C6	26:1H:664:C:C4	3.08	0.41
26:1H:684:G:C2	26:1H:774:A:C2	3.08	0.41
26:1H:758:C:O2	26:1H:1981:A:H2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1333:C:O2'	26:1H:1334:G:H5'	2.20	0.41
26:1H:1582:C:C2	26:1H:1583:A:C8	3.08	0.41
26:1H:1725:G:C2	26:1H:1741:C:C2	3.08	0.41
26:1H:1748:G:H2'	26:1H:1749:A:H8	1.85	0.41
26:1H:1789:A:OP1	29:11:221:VAL:HA	2.20	0.41
26:1H:1813:G:N3	29:11:50:THR:OG1	2.52	0.41
26:1H:1864:U:OP1	26:1H:2410:G:O2'	2.36	0.41
26:1H:2063:C:O2	26:1H:2450:A:N1	2.53	0.41
26:1H:2156:G:H2'	26:1H:2157:G:N3	2.35	0.41
26:1H:2340:G:C2'	26:1H:2341:G:H5'	2.49	0.41
26:1H:2343:C:HO2'	26:1H:2373:G:HO2'	1.56	0.41
26:1H:2734:A:H3'	26:1H:2735:G:C8	2.54	0.41
26:1H:2864:G:H2'	26:1H:2865:U:C6	2.54	0.41
27:16:50:G:OP2	40:A8:62:LYS:HB2	2.20	0.41
29:11:182:LEU:HA	29:11:182:LEU:HD23	1.79	0.41
30:21:35:GLN:HA	30:21:67:PHE:CE2	2.55	0.41
32:41:62:LEU:HA	32:41:62:LEU:HD12	1.79	0.41
32:41:82:LEU:HA	32:41:86:MET:SD	2.60	0.41
35:58:129:PRO:O	35:58:134:ARG:NH1	2.53	0.41
39:98:2:ARG:HA	39:98:5:LYS:HG3	2.01	0.41
40:A8:39:ILE:O	40:A8:39:ILE:HG22	2.20	0.41
42:C8:106:PHE:O	42:C8:109:LEU:HB2	2.19	0.41
44:E8:29:LEU:HD21	44:E8:33:ARG:HH21	1.84	0.41
45:F8:25:LYS:HG3	45:F8:82:GLN:OE1	2.20	0.41
47:H8:98:MET:O	47:H8:125:LEU:HA	2.19	0.41
49:J8:15:ALA:O	49:J8:40:ARG:HG2	2.20	0.41
1:1G:166:G:H2'	1:1G:167:G:C8	2.55	0.41
1:1G:266:G:H5"	1:1G:267:C:C5	2.55	0.41
1:1G:273:A:N6	1:1G:274:A:N6	2.67	0.41
1:1G:437:U:O2'	4:32:125:HIS:NE2	2.45	0.41
1:1G:491:G:H2'	1:1G:492:G:O4'	2.20	0.41
1:1G:618:C:H5'	1:1G:619:U:H5"	2.01	0.41
1:1G:645:C:C4	1:1G:646:U:C4	3.08	0.41
1:1G:998:G:H2'	1:1G:998(A):C:C6	2.55	0.41
1:1G:1267:C:H5"	1:1G:1268:A:OP2	2.20	0.41
1:1G:1392:G:H2'	1:1G:1393:U:O4'	2.20	0.41
2:12:119:GLU:HA	2:12:122:PHE:CD2	2.55	0.41
3:22:28:GLN:CD	3:22:28:GLN:H	2.28	0.41
7:62:65:ALA:HB3	7:62:124:LEU:HD23	2.01	0.41
56:2L:19:G:C4	56:2L:59:A:C2	3.07	0.41
26:14:221:A:C5	26:14:266:G:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:260:G:O4'	26:14:621:A:H1'	2.19	0.41
26:14:451:C:N4	26:14:454:A:H5'	2.35	0.41
26:14:609(A):G:C6	26:14:610:C:C4	3.07	0.41
26:14:643:A:H2'	26:14:644:A:H8	1.85	0.41
26:14:1259:G:N7	59:14:3844:HOH:O	2.37	0.41
26:14:1274:A:N3	26:14:1297:C:H1'	2.35	0.41
26:14:1483:G:C2	26:14:1484:G:C8	3.08	0.41
26:14:1653:G:C6	39:55:9:LYS:HB2	2.55	0.41
26:14:1725:G:H5'	26:14:1726:G:OP2	2.20	0.41
26:14:2383:G:OP2	55:M5:37:SER:HB3	2.20	0.41
27:1J:33:G:C2	27:1J:34:U:C2	3.08	0.41
36:25:87:ILE:HD13	36:25:87:ILE:HG21	1.88	0.41
37:35:112:LEU:H	37:35:128:HIS:HD1	1.68	0.41
47:D5:161:VAL:HG23	47:D5:162:GLU:H	1.85	0.41
49:F5:18:ILE:HG22	49:F5:20:ARG:HG3	2.01	0.41
1:13:584:G:OP2	17:8I:87:LYS:NZ	2.51	0.41
1:13:626:U:C2	1:13:627:G:C8	3.08	0.41
1:13:799:G:C6	1:13:800:G:C4	3.07	0.41
1:13:881:G:P	12:3I:12:ARG:NH2	2.93	0.41
1:13:1160:G:H1	1:13:1177:G:N2	2.18	0.41
10:1I:4:ILE:HD11	10:1I:100:THR:HG23	2.02	0.41
14:5I:12:ARG:C	14:5I:14:PRO:HD2	2.45	0.41
18:9I:21:LYS:HD2	18:9I:21:LYS:HA	1.80	0.41
18:9I:74:ARG:HG2	18:9I:79:LEU:HB2	2.02	0.41
26:1H:182:A:H2'	26:1H:183:C:C6	2.55	0.41
26:1H:238:C:H2'	26:1H:239:U:O4'	2.20	0.41
26:1H:270(I):G:H1	26:1H:270(Q):C:H42	1.68	0.41
26:1H:270(M):U:O2'	26:1H:270(N):G:H3'	2.21	0.41
26:1H:581:C:O2'	26:1H:582:G:H5'	2.21	0.41
26:1H:763:G:O2'	26:1H:764:A:H3'	2.19	0.41
26:1H:847:U:P	59:1H:3670:HOH:O	2.78	0.41
26:1H:1477:A:C2	26:1H:1478:G:C4	3.08	0.41
26:1H:1488:G:C6	26:1H:1489:U:C4	3.08	0.41
26:1H:1517:G:H2'	26:1H:1518:C:H6	1.86	0.41
26:1H:1690:A:C8	26:1H:1691:C:C6	3.08	0.41
26:1H:2246:G:H2'	26:1H:2247:A:H8	1.85	0.41
26:1H:2450:A:C2	26:1H:2451:A:C4	3.08	0.41
27:16:7:G:H4'	40:A8:29:PHE:HD2	1.79	0.41
27:16:13:A:HO2'	27:16:14:U:H3'	1.85	0.41
30:21:29:GLY:HA2	30:21:180:ASN:HB3	2.01	0.41
30:21:170:LEU:HA	30:21:170:LEU:HD23	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:31:68:LYS:C	31:31:69:HIS:CG	2.98	0.41
32:41:35:GLU:HG3	32:41:36:LYS:HB2	2.02	0.41
33:51:51:ARG:HG2	33:51:52:VAL:N	2.36	0.41
39:98:2:ARG:HG2	39:98:2:ARG:HH11	1.85	0.41
42:C8:96:ALA:C	42:C8:98:LEU:N	2.78	0.41
46:G8:99:CYS:SG	46:G8:100:ALA:N	2.88	0.41
50:K8:33:MET:O	50:K8:37:PHE:CD1	2.73	0.41
55:Q8:48:PHE:CE2	55:Q8:52:LYS:HB2	2.55	0.41
1:1G:266:G:H5"	1:1G:267:C:H5	1.84	0.41
1:1G:300:A:O2'	1:1G:564:C:N3	2.47	0.41
1:1G:683:G:H2'	1:1G:684:A:O4'	2.20	0.41
1:1G:750:G:H1'	15:6A:22:THR:OG1	2.20	0.41
1:1G:985:C:N3	1:1G:1220:G:N2	2.58	0.41
1:1G:1131:G:C5	1:1G:1132:C:H5	2.38	0.41
1:1G:1220:G:H5'	19:AA:34:TRP:O	2.20	0.41
1:1G:1298:C:O2'	1:1G:1299:A:C5	2.67	0.41
1:1G:1328:C:H2'	1:1G:1329:A:C8	2.55	0.41
1:1G:1494:G:C2	1:1G:1495:U:C5	3.08	0.41
5:42:12:LEU:HD23	5:42:12:LEU:HA	1.91	0.41
5:42:99:GLY:O	5:42:117:ASP:HA	2.21	0.41
5:42:100:VAL:HG23	5:42:118:ILE:HG22	2.02	0.41
5:42:155:GLU:H	5:42:155:GLU:HG2	1.61	0.41
8:72:34:GLU:O	8:72:38:ILE:HG13	2.20	0.41
8:72:81:HIS:HB2	8:72:138:TRP:C	2.44	0.41
12:3A:112:ASP:N	12:3A:112:ASP:OD1	2.52	0.41
18:9A:29:PHE:HD1	18:9A:29:PHE:H	1.67	0.41
56:2L:14:A:C6	56:2L:23:G:C6	3.08	0.41
24:3L:56:C:C4	24:3L:57:G:C6	3.08	0.41
24:3L:68:C:H2'	24:3L:69:G:O4'	2.19	0.41
26:14:65:C:H2'	26:14:66:C:C6	2.55	0.41
26:14:810:U:C2	37:35:29:LYS:O	2.74	0.41
26:14:998:C:H2'	26:14:999:U:O4'	2.19	0.41
26:14:1005:C:H1'	26:14:1012:U:C2	2.55	0.41
26:14:1324:G:C4	26:14:1328:G:O6	2.73	0.41
26:14:1647:G:C8	26:14:1647:G:H5'	2.55	0.41
26:14:2306:C:N4	26:14:2307:G:C6	2.88	0.41
26:14:2811:G:H8	26:14:2811:G:OP2	2.02	0.41
27:1J:100:G:H2'	27:1J:101:A:O4'	2.19	0.41
30:29:92:THR:O	30:29:95:ILE:HG13	2.20	0.41
32:49:40:ASN:HB2	32:49:91:ARG:CG	2.47	0.41
35:15:91:LEU:HD22	35:15:91:LEU:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:35:138:LEU:CD1	37:35:144:GLU:HG3	2.41	0.41
40:65:39:ILE:HD13	40:65:39:ILE:HA	1.92	0.41
40:65:109:GLY:C	40:65:110:LEU:HD13	2.45	0.41
1:13:1157:A:H61	1:13:1178:G:N2	2.18	0.41
1:13:1333:A:C6	1:13:1334:G:C4	3.08	0.41
2:1E:19:HIS:CE1	2:1E:206:ASP:HB2	2.55	0.41
2:1E:76:GLN:HA	2:1E:208:ILE:HG12	2.02	0.41
4:3E:175:SER:HB3	4:3E:186:LEU:HD21	2.01	0.41
5:4E:71:LEU:HD22	5:4E:114:GLY:HA3	2.02	0.41
6:5E:1:MET:HA	6:5E:67:MET:O	2.20	0.41
8:7E:10:LEU:HB3	8:7E:83:ILE:CD1	2.49	0.41
10:1I:63:PHE:HB3	14:5I:58:LYS:HA	2.01	0.41
26:1H:35:G:C4	26:1H:454:A:C2	3.08	0.41
26:1H:266:G:C6	26:1H:267:C:C5	3.08	0.41
26:1H:456:C:N4	45:F8:69:TYR:CZ	2.84	0.41
26:1H:483:A:O4'	46:G8:48:ALA:HB1	2.21	0.41
26:1H:518:G:C2	26:1H:519:U:C4	3.09	0.41
26:1H:1598:C:O2'	26:1H:1599:C:H5'	2.20	0.41
26:1H:1992:G:OP2	59:1H:4032:HOH:O	2.22	0.41
26:1H:2098:U:H2'	26:1H:2099:U:O4'	2.20	0.41
26:1H:2290:G:C6	26:1H:2291:U:N3	2.89	0.41
26:1H:2590:A:H2'	26:1H:2591:C:C6	2.55	0.41
26:1H:2645:G:H3'	26:1H:2646:C:H5'	2.01	0.41
30:21:135:HIS:CE1	59:21:303:HOH:O	2.72	0.41
35:58:116:LEU:HD23	35:58:116:LEU:HA	1.77	0.41
39:98:99:LYS:HE3	39:98:99:LYS:HB2	1.90	0.41
41:B8:108:ARG:O	41:B8:111:ARG:HG2	2.20	0.41
45:F8:5:TYR:HB3	50:K8:33:MET:HB2	2.03	0.41
48:I8:57:PHE:N	48:I8:57:PHE:CD1	2.89	0.41
49:J8:7:ILE:HD12	49:J8:7:ILE:N	2.35	0.41
50:K8:33:MET:O	50:K8:37:PHE:HD1	2.02	0.41
1:1G:21:G:C2	1:1G:22:G:C5	3.09	0.41
1:1G:155:C:C2	1:1G:167:G:N2	2.88	0.41
1:1G:518:C:C4	1:1G:530:G:C5	3.08	0.41
1:1G:568:G:C6	1:1G:569:C:N4	2.89	0.41
1:1G:981:U:O5'	1:1G:981:U:H6	2.03	0.41
1:1G:1360:A:H2'	1:1G:1361:G:O4'	2.20	0.41
1:1G:1415:G:C4	1:1G:1486:G:N2	2.88	0.41
3:22:70:VAL:O	3:22:106:VAL:N	2.54	0.41
5:42:24:ARG:HB3	5:42:24:ARG:NH1	2.35	0.41
5:42:105:VAL:HG21	5:42:128:PRO:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:82:14:VAL:O	9:82:65:VAL:HG23	2.20	0.41
9:82:49:PRO:HB2	9:82:85:LEU:HD21	2.02	0.41
10:1A:82:ILE:H	10:1A:82:ILE:HG12	1.55	0.41
11:2A:69:ALA:O	11:2A:73:MET:HG3	2.21	0.41
11:2A:84:VAL:HG23	11:2A:110:ASP:OD1	2.19	0.41
12:3A:82:VAL:O	12:3A:106:ASP:HB2	2.20	0.41
16:7A:58:TYR:O	16:7A:61:SER:OG	2.31	0.41
18:9A:61:LYS:O	18:9A:65:ILE:HG23	2.20	0.41
24:3L:29:G:C2'	24:3L:30:G:H5'	2.50	0.41
26:14:305:U:H2'	26:14:306:U:C5	2.56	0.41
26:14:485:C:O2	26:14:485:C:H2'	2.21	0.41
26:14:528:A:O2'	26:14:529:A:H5'	2.20	0.41
26:14:686:G:OP1	54:L5:11:LYS:NZ	2.49	0.41
26:14:729:G:C8	29:19:208:LYS:HD2	2.56	0.41
26:14:773:U:O2'	29:19:48:ARG:HD3	2.20	0.41
26:14:845:G:H8	26:14:845:G:O5'	2.03	0.41
26:14:869:G:N1	26:14:909:A:C6	2.88	0.41
26:14:977:G:C5	26:14:987:G:C2	3.08	0.41
26:14:1010:A:N3	26:14:1153:C:H1'	2.36	0.41
26:14:1064:C:O2	26:14:1074:G:N2	2.53	0.41
26:14:1168:G:N2	26:14:1182:A:H1'	2.33	0.41
26:14:1299:G:H5'	26:14:1301:A:O4'	2.21	0.41
26:14:1411:C:H2'	26:14:1412:A:H8	1.85	0.41
26:14:1420:U:HO2'	26:14:1421:G:P	2.43	0.41
26:14:1856:G:N2	26:14:1886:C:O2	2.54	0.41
26:14:1933:G:H2'	26:14:1934:C:O4'	2.20	0.41
26:14:2291:U:H2'	26:14:2292:C:C6	2.55	0.41
26:14:2298:A:H1'	26:14:2321:G:H21	1.84	0.41
26:14:2392:A:C8	37:35:61:ARG:HD2	2.51	0.41
26:14:2561:A:H2	36:25:23:ARG:HE	1.68	0.41
26:14:2729:G:H2'	26:14:2730:C:O4'	2.20	0.41
26:14:2787:C:O3'	30:29:61:ARG:NH1	2.54	0.41
26:14:2864:G:C6	26:14:2865:U:N3	2.88	0.41
30:29:11:MET:CA	30:29:24:THR:HA	2.47	0.41
30:29:116:VAL:HG21	30:29:122:PHE:CD2	2.56	0.41
30:29:117:MET:HB2	30:29:122:PHE:O	2.20	0.41
38:45:59:ARG:O	38:45:60:ARG:NH1	2.52	0.41
44:A5:13:SER:HA	44:A5:14:PRO:HD3	1.84	0.41
44:A5:40:ASN:ND2	44:A5:40:ASN:C	2.77	0.41
45:B5:24:GLY:HA3	45:B5:82:GLN:HE21	1.84	0.41
47:D5:24:LEU:HA	47:D5:25:PRO:HD3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:F5:13:ILE:H	49:F5:13:ILE:HG12	1.57	0.41
1:13:22:G:O2'	1:13:913:A:N1	2.53	0.41
1:13:191:G:H1'	20:BI:105:SER:HA	2.02	0.41
1:13:247:G:O6	1:13:278:G:C6	2.74	0.41
1:13:254:G:O2'	17:8I:16:GLN:O	2.32	0.41
1:13:452:A:C6	1:13:453:A:C6	3.08	0.41
1:13:954:G:H2'	1:13:955:U:C6	2.55	0.41
1:13:1032(A):G:H2'	1:13:1032(B):G:C8	2.55	0.41
4:3E:62:GLN:OE1	4:3E:62:GLN:HA	2.20	0.41
6:5E:16:GLN:OE1	6:5E:16:GLN:N	2.53	0.41
7:6E:126:ASP:O	7:6E:130:GLY:N	2.53	0.41
8:7E:83:ILE:HB	8:7E:137:VAL:HG13	2.03	0.41
10:1I:16:LEU:HD23	10:1I:94:VAL:HG13	2.03	0.41
11:2I:19:ALA:O	11:2I:82:VAL:HA	2.20	0.41
11:2I:73:MET:HG3	11:2I:103:LEU:HD21	2.02	0.41
12:3I:35:GLY:O	12:3I:82:VAL:HG23	2.20	0.41
16:7I:77:ALA:CB	16:7I:79:VAL:H	2.34	0.41
23:2K:77:A:H5'	23:2K:77:A:H8	1.85	0.41
26:1H:503:A:C6	26:1H:506:G:C6	3.09	0.41
26:1H:1219:G:OP2	42:C8:19:LYS:HE3	2.20	0.41
26:1H:1268:A:C2	26:1H:2013:A:C4	3.08	0.41
26:1H:1949:G:C6	26:1H:1950:G:C6	3.08	0.41
26:1H:2262:U:H2'	26:1H:2263:C:C6	2.54	0.41
26:1H:2369:A:O2'	26:1H:2370:G:H5'	2.21	0.41
26:1H:2387:U:H1'	48:I8:41:ARG:NH2	2.36	0.41
26:1H:2700:C:O2'	26:1H:2701:C:H5'	2.20	0.41
29:11:273:ARG:H	29:11:273:ARG:HG3	1.67	0.41
34:61:128:LEU:O	34:61:137:PRO:HA	2.21	0.41
39:98:63:ARG:O	39:98:66:VAL:N	2.53	0.41
41:B8:6:LEU:HD13	41:B8:9:LEU:HB3	2.03	0.41
48:I8:23:VAL:HG13	48:I8:38:VAL:HG23	2.02	0.41
49:J8:8:SER:OG	49:J8:10:LYS:HG3	2.20	0.41
50:K8:59:ARG:O	50:K8:63:VAL:HG23	2.21	0.41
52:M8:36:CYS:SG	52:M8:38:LYS:O	2.78	0.41
52:M8:58:ARG:O	52:M8:61:ARG:HD2	2.19	0.41
2:12:107:THR:O	2:12:110:GLN:HB3	2.20	0.41
4:32:39:PRO:HA	4:32:40:PRO:HD3	1.86	0.41
6:52:22:GLU:OE2	6:52:82:ARG:NE	2.52	0.41
16:7A:54:GLU:HA	16:7A:57:ARG:HB2	2.02	0.41
56:2L:41:C:H2'	56:2L:42:C:H6	1.85	0.41
26:14:270(S):G:N1	26:14:270(T):G:C5	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:272:G:H1	26:14:365:C:H42	1.67	0.41
26:14:740:U:O4'	26:14:1981:A:C4	2.74	0.41
26:14:853:G:H2'	26:14:854:G:H8	1.85	0.41
26:14:911:A:C6	38:45:9:TYR:CD2	3.08	0.41
26:14:1248:G:C8	31:39:92:PRO:HG3	2.56	0.41
26:14:1410:G:H2'	26:14:1411:C:H6	1.83	0.41
26:14:1519:G:C6	26:14:1520:U:C4	3.08	0.41
26:14:1551:C:C5	26:14:1552:G:N7	2.89	0.41
26:14:2308:G:O6	26:14:2311:A:N1	2.54	0.41
26:14:2489:G:N7	26:14:2490:G:N1	2.69	0.41
26:14:2567:G:H2'	26:14:2568:C:C6	2.55	0.41
26:14:2846:G:H2'	26:14:2847:U:O4'	2.21	0.41
27:1J:45:A:N3	27:1J:45:A:H2'	2.36	0.41
27:1J:97:G:H2'	27:1J:98:G:O4'	2.20	0.41
29:19:2:ALA:O	29:19:3:VAL:HB	2.20	0.41
29:19:133:LEU:HD13	29:19:173:VAL:CG2	2.50	0.41
30:29:116:VAL:HG21	30:29:122:PHE:CE2	2.55	0.41
30:29:203:LYS:H	30:29:205:ALA:H	1.67	0.41
31:39:28:ILE:HD13	31:39:119:ARG:HH21	1.85	0.41
33:59:167:GLU:HA	33:59:168:PRO:HD3	2.00	0.41
34:69:109:ILE:HB	34:69:130:TYR:OH	2.21	0.41
39:55:38:VAL:HG22	39:55:112:ALA:HB2	2.02	0.41
42:85:95:LEU:HD11	43:95:11:GLN:O	2.20	0.41
44:A5:6:ILE:HG22	44:A5:8:ARG:HG3	2.01	0.41
45:B5:11:PRO:HD3	50:G5:37:PHE:CD2	2.55	0.41
49:F5:44:PRO:HB2	49:F5:46:LEU:CD1	2.49	0.41
55:M5:56:GLU:HB2	55:M5:57:ARG:NH1	2.35	0.41
1:13:49:U:C4	1:13:364:A:C5	3.08	0.41
1:13:115:G:C2	1:13:289:G:N7	2.89	0.41
1:13:677:U:H3	1:13:713:G:H22	1.68	0.41
1:13:922:G:N3	1:13:1396:A:C2	2.89	0.41
1:13:924:C:O2'	1:13:1502:A:N6	2.53	0.41
1:13:985:C:H42	1:13:1220:G:H1	1.66	0.41
1:13:1266:G:N2	1:13:1270:C:N3	2.69	0.41
2:1E:214:ILE:H	2:1E:214:ILE:HG12	1.63	0.41
2:1E:219:VAL:O	2:1E:223:ILE:HG13	2.21	0.41
3:2E:87:LEU:O	3:2E:90:GLU:N	2.53	0.41
5:4E:126:ARG:HG3	5:4E:126:ARG:NH1	2.35	0.41
6:5E:4:TYR:CD1	6:5E:92:LYS:HA	2.55	0.41
8:7E:10:LEU:HD23	8:7E:10:LEU:N	2.36	0.41
11:2I:85:ARG:HD3	11:2I:113:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3I:109:GLY:HA3	12:3I:121:GLY:O	2.20	0.41
13:4I:30:ALA:C	13:4I:32:GLU:N	2.79	0.41
14:5I:60:SER:C	14:5I:61:TRP:HE3	2.29	0.41
17:8I:22:LEU:HD22	17:8I:88:TYR:HD2	1.85	0.41
26:1H:196:A:N3	26:1H:196:A:H2'	2.35	0.41
26:1H:363(F):A:H4'	26:1H:364:C:H5'	2.01	0.41
26:1H:483:A:C5'	46:G8:50:ARG:HH21	2.34	0.41
26:1H:813:U:H2'	26:1H:814:C:C6	2.55	0.41
26:1H:1102:C:H2'	26:1H:1103:A:O4'	2.21	0.41
26:1H:1206:G:C5	26:1H:1207:C:C5	3.07	0.41
26:1H:1416:G:H2'	26:1H:1417:C:C6	2.56	0.41
26:1H:1435:G:C5	26:1H:1436:G:N7	2.88	0.41
26:1H:1566:A:HO2'	26:1H:1567:A:H5'	1.83	0.41
26:1H:1647:G:H3'	26:1H:1647:G:OP2	2.20	0.41
26:1H:1728:G:H1'	26:1H:1732:A:N6	2.36	0.41
26:1H:1780:A:H3'	26:1H:1781:C:H2'	2.03	0.41
26:1H:1784:A:H4'	26:1H:1785:A:O5'	2.20	0.41
26:1H:1786:A:H1'	26:1H:1938:A:N6	2.35	0.41
26:1H:1788:C:H2'	26:1H:1789:A:O4'	2.20	0.41
26:1H:1814:G:H2'	26:1H:1815:A:C8	2.56	0.41
26:1H:2108:C:H2'	26:1H:2109:U:O4'	2.20	0.41
26:1H:2314:C:H5"	32:41:38:VAL:HG11	2.01	0.41
26:1H:2414:G:N3	26:1H:2414:G:H2'	2.34	0.41
26:1H:2843:G:O2'	26:1H:2844:G:H5'	2.20	0.41
27:16:50:G:H2'	27:16:51:G:O5'	2.21	0.41
27:16:66:A:C2	27:16:108:C:C4	3.08	0.41
28:71:182:PRO:O	28:71:185:LEU:HB2	2.19	0.41
30:21:27:LEU:HG	30:21:180:ASN:O	2.20	0.41
30:21:67:PHE:C	30:21:69:LYS:N	2.78	0.41
36:68:113:LYS:C	36:68:113:LYS:HD3	2.45	0.41
37:78:13:ASN:CG	37:78:15:ARG:HD3	2.44	0.41
37:78:108:LYS:C	37:78:110:TYR:H	2.27	0.41
39:98:54:LEU:O	39:98:62:ALA:HB1	2.20	0.41
41:B8:42:ILE:HD12	41:B8:42:ILE:O	2.20	0.41
42:C8:27:LEU:HD22	42:C8:27:LEU:HA	1.90	0.41
43:D8:34:GLU:HG3	43:D8:56:SER:CB	2.48	0.41
1:1G:362:G:H4'	12:3A:33:ARG:HH21	1.85	0.41
1:1G:384:G:H2'	1:1G:385:C:C6	2.56	0.41
1:1G:537:G:H5"	12:3A:113:ARG:NH1	2.35	0.41
1:1G:628:G:N2	1:1G:629:G:C4	2.89	0.41
1:1G:750:G:H21	15:6A:23:GLY:HA3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:937:A:H1'	1:1G:1379:G:C2	2.55	0.41
1:1G:1285:A:H1'	1:1G:1286:A:OP2	2.20	0.41
1:1G:1314:C:H5	19:AA:7:LYS:HE3	1.85	0.41
1:1G:1499:A:O2'	1:1G:1500:A:H5'	2.21	0.41
3:22:90:GLU:HA	3:22:93:LYS:HB2	2.03	0.41
15:6A:49:ASP:OD2	15:6A:52:SER:OG	2.36	0.41
20:BA:50:GLU:HA	20:BA:100:ILE:CG2	2.51	0.41
26:14:26:G:C2	26:14:27:G:C2	3.09	0.41
26:14:422:A:C6	26:14:423:A:C6	3.08	0.41
26:14:443:A:O2'	26:14:1200:C:O2'	2.17	0.41
26:14:598:G:C6	26:14:599:G:C5	3.08	0.41
26:14:638:G:H2'	26:14:639:U:O4'	2.20	0.41
26:14:1359:A:N7	26:14:1372:U:C4	2.88	0.41
26:14:1414:G:O2'	26:14:1415:U:H5'	2.20	0.41
26:14:1545(A):A:N7	26:14:1546:C:C2	2.88	0.41
26:14:1668:A:OP1	36:25:5:GLN:HG2	2.20	0.41
26:14:2129:C:H2'	26:14:2130:U:O4'	2.20	0.41
26:14:2306:C:N4	32:49:42:GLY:O	2.40	0.41
26:14:2631:G:H1	26:14:2787:C:H42	1.67	0.41
27:1J:70:C:H2'	27:1J:71:C:H6	1.85	0.41
29:19:103:ARG:HE	29:19:103:ARG:HB3	1.45	0.41
30:29:64:LYS:HB3	30:29:65:GLY:H	1.56	0.41
31:39:27:GLU:O	31:39:28:ILE:HG12	2.20	0.41
32:49:43:LEU:O	32:49:46:ALA:HB3	2.21	0.41
35:15:21:LYS:O	35:15:60:ILE:HG13	2.20	0.41
36:25:9:GLU:O	36:25:83:ALA:HA	2.19	0.41
39:55:100:LEU:HG	39:55:112:ALA:HA	2.01	0.41
40:65:87:PHE:CE1	40:65:102:ALA:HB2	2.56	0.41
47:D5:68:PRO:HD2	47:D5:90:VAL:HG12	2.02	0.41
54:L5:34:ARG:NH1	54:L5:39:ARG:HE	2.18	0.41
1:13:103:C:C4	1:13:104:G:N7	2.88	0.41
1:13:500:G:C6	1:13:501:C:C4	3.07	0.41
1:13:583:A:OP2	15:6I:68:ARG:NH2	2.53	0.41
1:13:837:G:C2	1:13:838:G:C8	3.08	0.41
1:13:1124:G:O2'	1:13:1145:C:C4	2.68	0.41
1:13:1404:C:H6	1:13:1404:C:O5'	2.04	0.41
1:13:1416:G:C6	1:13:1417:G:C5	3.08	0.41
3:2E:12:LEU:HD23	3:2E:12:LEU:HA	1.68	0.41
5:4E:68:GLU:O	5:4E:68:GLU:HG3	2.21	0.41
7:6E:57:GLU:HA	7:6E:58:PRO:HD2	1.89	0.41
9:8E:22:GLY:HA3	9:8E:60:ASP:OD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4I:74:VAL:O	13:4I:78:ILE:HG13	2.21	0.41
17:8I:55:ASP:HB3	17:8I:57:VAL:CG1	2.48	0.41
17:8I:93:GLN:O	17:8I:96:GLU:HB2	2.21	0.41
19:AI:78:ARG:NH1	19:AI:79:THR:HA	2.32	0.41
24:3K:18:G:C5	24:3K:57:G:N1	2.86	0.41
25:4K:24:A:H2'	25:4K:25:A:C8	2.55	0.41
26:1H:282:A:C8	26:1H:359:A:C6	3.09	0.41
26:1H:332:A:C2	26:1H:335:C:C5	3.08	0.41
26:1H:398:G:H2'	26:1H:399:G:O4'	2.20	0.41
26:1H:664:C:H4'	26:1H:941:A:OP1	2.19	0.41
26:1H:908:C:O2'	26:1H:909:A:H5'	2.20	0.41
26:1H:973:A:OP2	59:1H:3811:HOH:O	2.22	0.41
26:1H:1278:A:H2'	26:1H:1279:G:C8	2.56	0.41
26:1H:1343:G:H2'	26:1H:1384:A:C2	2.55	0.41
26:1H:1389:G:C2	26:1H:1399:C:O2	2.74	0.41
26:1H:1956:U:H2'	26:1H:1957:C:H5'	2.02	0.41
26:1H:2070:G:P	59:1H:4080:HOH:O	2.77	0.41
26:1H:2364:C:H2'	26:1H:2365:G:O4'	2.20	0.41
26:1H:2473:U:H2'	26:1H:2474:C:H6	1.85	0.41
26:1H:2607:G:H2'	26:1H:2608:G:O4'	2.20	0.41
26:1H:2645:G:C3'	26:1H:2646:C:H5'	2.51	0.41
26:1H:2666:C:H5"	26:1H:2667:C:OP2	2.19	0.41
26:1H:2759:G:OP2	59:1H:4321:HOH:O	2.22	0.41
27:16:55:U:O2'	27:16:57:A:N7	2.54	0.41
28:71:9:ALA:O	28:71:13:LYS:HG3	2.21	0.41
28:71:191:ALA:HA	28:71:194:ARG:CZ	2.50	0.41
35:58:23:LEU:HA	35:58:23:LEU:HD12	1.67	0.41
38:88:82:ARG:HD2	38:88:82:ARG:HH11	1.70	0.41
39:98:17:ARG:O	39:98:20:LEU:HB3	2.20	0.41
45:F8:41:ASN:O	45:F8:45:THR:HG23	2.20	0.41
46:G8:51:VAL:O	46:G8:56:PRO:HA	2.21	0.41
47:H8:7:ALA:HB3	47:H8:61:LEU:CB	2.50	0.41
47:H8:94:GLU:O	47:H8:96:VAL:HG12	2.20	0.41
1:1G:191(F):U:H2'	1:1G:191:G:C8	2.55	0.41
1:1G:338:A:H2'	1:1G:339:C:C6	2.56	0.41
1:1G:910:C:P	12:3A:21:LYS:HZ1	2.39	0.41
1:1G:1286:A:H3'	1:1G:1286:A:H8	1.84	0.41
1:1G:1349:A:P	9:82:118:LYS:NZ	2.88	0.41
1:1G:1415:G:C4	1:1G:1486:G:C2	3.08	0.41
2:12:78:GLN:HG2	2:12:94:ASN:O	2.21	0.41
3:22:20:SER:HB2	3:22:40:ARG:HH12	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:22:103:VAL:HG12	3:22:104:GLN:N	2.36	0.41
3:22:121:ALA:HB2	3:22:198:VAL:HG21	2.02	0.41
7:62:150:ALA:HA	11:2A:59:TYR:HD2	1.85	0.41
10:1A:49:VAL:O	10:1A:60:ARG:HB2	2.19	0.41
11:2A:17:GLY:N	11:2A:77:MET:SD	2.94	0.41
11:2A:96:ARG:O	11:2A:99:GLN:N	2.53	0.41
13:4A:81:LEU:O	13:4A:89:GLY:HA3	2.20	0.41
56:2L:32:G:N3	56:2L:32:G:H2'	2.34	0.41
24:3L:50:U:C2	24:3L:65:G:N2	2.89	0.41
26:14:30:G:C6	26:14:31:C:C4	3.09	0.41
26:14:336:C:OP1	46:C5:83:THR:HG23	2.21	0.41
26:14:407:G:H2'	26:14:408:G:H8	1.85	0.41
26:14:1535:U:H2'	26:14:1536:A:O4'	2.20	0.41
26:14:1648:C:H42	26:14:2009:G:H1	1.69	0.41
26:14:1790:C:H2'	26:14:1791:A:C5	2.56	0.41
26:14:2302:G:H2'	26:14:2303:G:O4'	2.21	0.41
27:1J:61:G:C6	27:1J:62:C:C4	3.08	0.41
29:19:227:ASN:C	29:19:234:GLY:HA3	2.45	0.41
30:29:89:ASP:O	30:29:91:VAL:N	2.37	0.41
31:39:146:ALA:HB3	31:39:148:LEU:H	1.85	0.41
31:39:170:LEU:HD23	31:39:170:LEU:HA	1.78	0.41
31:39:177:ALA:HB1	31:39:178:PRO:HD2	2.03	0.41
32:49:103:LEU:HD22	32:49:178:PHE:CZ	2.55	0.41
33:59:94:TYR:CD1	33:59:94:TYR:N	2.88	0.41
35:15:72:TYR:HE2	35:15:87:LEU:HD23	1.85	0.41
36:25:34:THR:HG22	36:25:37:ASP:OD2	2.20	0.41
38:45:3:MET:HE3	38:45:3:MET:HB3	1.99	0.41
40:65:89:ARG:O	40:65:90:GLY:C	2.62	0.41
47:D5:30:ASN:HA	47:D5:89:PHE:CE1	2.42	0.41
47:D5:58:VAL:HG12	47:D5:59:LEU:O	2.21	0.41
52:I5:40:HIS:CG	52:I5:45:GLY:HA3	2.54	0.41
1:13:67:C:H2'	1:13:68:G:H8	1.85	0.41
1:13:109:A:C6	1:13:326:G:C5	3.09	0.41
1:13:177:C:H2'	1:13:178:C:C6	2.56	0.41
1:13:428:G:C8	1:13:430:A:C4	3.09	0.41
1:13:428:G:C8	1:13:430:A:C5	3.09	0.41
1:13:498:A:N6	1:13:547:A:C8	2.89	0.41
1:13:909:A:H2'	1:13:910:C:O4'	2.21	0.41
1:13:923:A:O2'	1:13:1399:C:OP2	2.32	0.41
1:13:950:U:H2'	1:13:951:G:H8	1.85	0.41
1:13:1118:C:O4'	1:13:1179:A:H1'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:7E:104:ARG:O	8:7E:107:LEU:HB2	2.20	0.41
8:7E:118:VAL:C	8:7E:119:LEU:HD23	2.46	0.41
9:8E:18:PHE:O	9:8E:61:ALA:HA	2.21	0.41
10:1I:40:LEU:HD23	10:1I:40:LEU:HA	1.83	0.41
15:6I:45:VAL:HG12	15:6I:46:HIS:CD2	2.56	0.41
17:8I:68:ARG:H	17:8I:70:ARG:NH1	2.19	0.41
21:1F:2:GLY:C	21:1F:4:GLY:H	2.29	0.41
26:1H:28:A:H1'	26:1H:513:A:C2	2.56	0.41
26:1H:78:A:H2'	26:1H:79:G:C8	2.55	0.41
26:1H:1084:A:C8	26:1H:1085:A:C8	3.08	0.41
26:1H:1087:G:N7	26:1H:1089:G:H1'	2.36	0.41
26:1H:1233:C:H2'	26:1H:1234:U:O4'	2.21	0.41
26:1H:1276:A:H1'	39:98:16:HIS:NE2	2.35	0.41
26:1H:1346:G:C4	26:1H:1347:G:C8	3.08	0.41
26:1H:1432:C:H2'	26:1H:1433:U:O4'	2.20	0.41
26:1H:1945:G:O2'	26:1H:1946:U:H5'	2.20	0.41
26:1H:2170:A:H8	26:1H:2170:A:OP2	2.04	0.41
26:1H:2335:A:N7	26:1H:2337:G:C4	2.89	0.41
27:16:4:C:H42	27:16:116:G:H1	1.67	0.41
29:11:25:THR:HG21	29:11:81:ALA:HA	2.01	0.41
29:11:106:ILE:HD13	29:11:106:ILE:HG21	1.74	0.41
30:21:23:VAL:HA	30:21:185:LYS:HA	2.03	0.41
30:21:70:ALA:O	30:21:71:GLY:C	2.63	0.41
31:31:160:ASN:OD1	31:31:163:VAL:HG23	2.20	0.41
32:41:146:TYR:O	32:41:149:VAL:HG22	2.20	0.41
35:58:126:PRO:HB2	35:58:127:ASP:OD1	2.20	0.41
37:78:82:GLY:HA2	37:78:113:LYS:O	2.20	0.41
37:78:83:VAL:HG11	37:78:112:LEU:HD21	2.03	0.41
47:H8:102:LEU:CD2	47:H8:137:ILE:HB	2.50	0.41
48:I8:42:GLY:C	48:I8:57:PHE:HD2	2.28	0.41
1:1G:142:G:C2	1:1G:143:A:C5	3.08	0.41
1:1G:560:U:H5'	1:1G:566:G:N2	2.35	0.41
1:1G:579:G:C6	1:1G:580:U:C4	3.09	0.41
1:1G:1028:C:N4	1:1G:1033:G:H1	2.04	0.41
1:1G:1131:G:N7	1:1G:1132:C:H5	2.18	0.41
2:12:81:VAL:O	2:12:85:ALA:HB2	2.20	0.41
2:12:131:PRO:HG2	2:12:134:GLU:HB2	2.01	0.41
5:42:9:LYS:HB3	5:42:33:VAL:HB	2.03	0.41
5:42:80:ILE:HG12	5:42:81:GLU:N	2.36	0.41
9:82:40:LEU:CB	9:82:43:ALA:HB2	2.47	0.41
9:82:99:LEU:HD12	9:82:101:PHE:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4A:86:CYS:HA	19:AA:73:GLU:C	2.45	0.41
24:3L:58:A:H4'	24:3L:59:U:H5	1.85	0.41
24:3L:71:G:H1'	26:14:1851:U:H4'	2.03	0.41
26:14:314:A:H2'	26:14:315:G:H8	1.85	0.41
26:14:323:G:C6	26:14:333:G:C4	3.09	0.41
26:14:534:U:OP1	42:85:24:TYR:OH	2.35	0.41
26:14:602:G:N2	26:14:655:A:C8	2.89	0.41
26:14:660:G:H21	37:35:12:ALA:CA	2.34	0.41
26:14:849:A:C2	51:H5:24:LYS:HB3	2.49	0.41
26:14:1206:G:C6	26:14:1207:C:C4	3.09	0.41
26:14:1210:A:C5'	26:14:1212:G:H5'	2.48	0.41
26:14:1217:C:OP1	42:85:15:LYS:HE3	2.20	0.41
26:14:1717:G:H1	26:14:1742:C:N4	2.13	0.41
26:14:1903:G:H2'	26:14:1904:G:H8	1.85	0.41
26:14:1945:G:C4	26:14:1946:U:C5	3.08	0.41
26:14:2558:C:C4	26:14:2559:C:C5	3.09	0.41
26:14:2694:G:C6	26:14:2695:C:C4	3.09	0.41
26:14:2741:A:H2'	26:14:2742:C:O4'	2.19	0.41
26:14:2857:G:N2	26:14:2859:G:O3'	2.54	0.41
29:19:223:GLY:HA2	29:19:226:MET:HG3	2.02	0.41
29:19:255:LYS:H	29:19:255:LYS:NZ	2.18	0.41
31:39:15:SER:OG	31:39:16:GLY:N	2.51	0.41
32:49:82:LEU:HA	32:49:86:MET:SD	2.60	0.41
33:59:83:TYR:CG	33:59:84:SER:N	2.89	0.41
37:35:86:LYS:HG3	37:35:87:ASP:N	2.36	0.41
37:35:110:TYR:HB3	37:35:111:ARG:H	1.44	0.41
43:95:2:PHE:CD1	43:95:42:GLY:HA2	2.56	0.41
44:A5:4:LYS:CB	44:A5:106:ILE:HG22	2.46	0.41
46:C5:86:ARG:HG3	46:C5:87:LYS:N	2.36	0.41
49:F5:5:CYS:HB3	49:F5:10:LYS:H	1.86	0.41
49:F5:79:GLY:C	49:F5:80:LEU:HG	2.46	0.41
49:F5:85:LEU:C	49:F5:87:PRO:HD2	2.44	0.41
54:L5:18:PHE:CD1	54:L5:18:PHE:C	2.99	0.41
1:13:171:A:C2	1:13:172:A:C4	3.09	0.41
1:13:187:C:O2	1:13:191(A):G:C6	2.74	0.41
1:13:558:G:C4	1:13:559:A:H2	2.38	0.41
1:13:605:U:C2	1:13:606:G:C8	3.09	0.41
1:13:746:A:C5	1:13:747:C:C5	3.08	0.41
1:13:881:G:P	12:3I:12:ARG:HH22	2.44	0.41
1:13:1153:C:H2'	1:13:1154:G:O4'	2.20	0.41
1:13:1165:C:H2'	1:13:1166:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2E:7:PRO:O	3:2E:11:ARG:NH1	2.50	0.41
3:2E:59:ARG:HA	3:2E:63:ASN:O	2.21	0.41
4:3E:70:ILE:HG23	4:3E:75:PHE:HB2	2.03	0.41
4:3E:93:PHE:O	4:3E:96:LEU:HB2	2.21	0.41
4:3E:206:PHE:HD2	4:3E:207:TYR:CE1	2.39	0.41
5:4E:15:ARG:HG3	5:4E:26:PHE:HD2	1.85	0.41
5:4E:59:GLY:O	5:4E:63:ARG:HG2	2.21	0.41
5:4E:77:PRO:HD2	5:4E:142:LEU:HD13	2.03	0.41
5:4E:101:ILE:HD13	5:4E:101:ILE:HA	1.82	0.41
12:3I:8:ASN:O	12:3I:9:GLN:C	2.63	0.41
12:3I:83:VAL:HG22	12:3I:84:LEU:H	1.86	0.41
12:3I:98:TYR:N	12:3I:98:TYR:CD1	2.88	0.41
23:2K:20:G:C2	23:2K:58:A:C4	3.09	0.41
26:1H:43:G:N2	26:1H:438:G:C4	2.89	0.41
26:1H:216:A:C4	26:1H:432:A:C2	3.09	0.41
26:1H:654(H):G:N2	26:1H:654(I):C:H5	2.18	0.41
26:1H:1006:C:O2	35:58:106:MET:HG2	2.20	0.41
26:1H:1287:A:N7	39:98:107:ASP:HB2	2.35	0.41
26:1H:1441:G:H2'	26:1H:1442:G:C8	2.56	0.41
26:1H:1442:G:H2'	26:1H:1443:G:H8	1.86	0.41
26:1H:1486:A:C5	26:1H:1487:G:N7	2.88	0.41
26:1H:1523:U:C2	26:1H:1524:G:C8	3.09	0.41
26:1H:1572:A:H8	26:1H:1572:A:O5'	2.04	0.41
26:1H:2252:G:H2'	26:1H:2253:G:O4'	2.20	0.41
26:1H:2359:C:O3'	55:Q8:49:VAL:HG11	2.19	0.41
26:1H:2406:U:N3	37:78:75:ILE:HD13	2.36	0.41
26:1H:2712(A):A:H5"	59:1H:3578:HOH:O	2.20	0.41
28:71:45:ALA:CA	28:71:212:VAL:HA	2.51	0.41
31:31:65:TRP:CD1	31:31:65:TRP:N	2.88	0.41
33:51:43:VAL:HB	33:51:52:VAL:HG22	2.02	0.41
34:61:97:ILE:H	34:61:97:ILE:HG12	1.64	0.41
34:61:128:LEU:HD23	34:61:128:LEU:HA	1.66	0.41
35:58:17:ASP:O	35:58:18:ALA:HB3	2.20	0.41
37:78:1:MET:HE1	37:78:6:LEU:HA	2.02	0.41
37:78:98:GLU:C	37:78:100:LEU:N	2.78	0.41
38:88:18:LYS:HB2	38:88:18:LYS:HE3	1.59	0.41
40:A8:15:ARG:O	40:A8:19:LYS:HD2	2.20	0.41
44:E8:70:TYR:CD1	44:E8:70:TYR:C	2.94	0.41
47:H8:150:LEU:HD23	47:H8:151:HIS:C	2.45	0.41
1:1G:144:G:H1	1:1G:178:C:N4	2.16	0.41
1:1G:452:A:C6	1:1G:453:A:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1447:G:H8	1:1G:1447:G:O5'	2.04	0.41
2:12:237:ALA:C	2:12:239:VAL:N	2.78	0.41
4:32:108:LEU:HD12	4:32:108:LEU:HA	1.78	0.41
5:42:13:ILE:HA	5:42:29:GLY:O	2.20	0.41
5:42:36:ASP:HB2	5:42:38:GLN:CG	2.50	0.41
12:3A:11:VAL:HG22	17:8A:29:HIS:HD2	1.86	0.41
14:5A:53:LEU:HA	14:5A:54:PRO:HD3	1.77	0.41
16:7A:19:ILE:HD12	16:7A:38:TYR:N	2.35	0.41
19:AA:18:LYS:O	19:AA:22:LEU:HB2	2.20	0.41
24:3L:20:U:O2'	24:3L:21:A:P	2.78	0.41
24:3L:65:G:H2'	24:3L:66:U:C6	2.56	0.41
26:14:84:A:H61	26:14:102:G:C2'	2.33	0.41
26:14:234:C:C2	26:14:235:U:C6	3.09	0.41
26:14:307:G:N2	26:14:309:G:H3'	2.36	0.41
26:14:1239:G:H2'	26:14:1240:U:O4'	2.20	0.41
26:14:1793:C:H2'	26:14:1794:U:C6	2.56	0.41
26:14:1966:A:H4'	26:14:1967:C:OP1	2.21	0.41
26:14:2010:G:N7	59:14:3561:HOH:O	2.37	0.41
26:14:2322:A:H2'	26:14:2323:G:O4'	2.20	0.41
27:1J:96:G:C6	27:1J:97:G:C5	3.09	0.41
29:19:71:ASP:OD1	29:19:71:ASP:N	2.53	0.41
29:19:148:GLU:O	29:19:151:LYS:HB2	2.20	0.41
30:29:50:GLY:C	30:29:74:PRO:HG3	2.45	0.41
31:39:123:LEU:HA	31:39:192:LEU:C	2.45	0.41
32:49:43:LEU:HD12	32:49:45:GLU:OE1	2.21	0.41
36:25:13:ASN:C	36:25:15:GLY:N	2.77	0.41
38:45:74:TYR:C	38:45:89:ASN:HB2	2.46	0.41
40:65:5:THR:O	40:65:8:GLU:HB2	2.20	0.41
40:65:7:TYR:O	40:65:11:LYS:HB2	2.21	0.41
42:85:91:ASP:OD2	42:85:96:ALA:HB2	2.20	0.41
44:A5:73:ALA:H	44:A5:106:ILE:HG13	1.86	0.41
45:B5:18:TYR:O	45:B5:19:ALA:C	2.62	0.41
46:C5:55:TYR:N	46:C5:55:TYR:CD1	2.89	0.41
47:D5:61:LEU:HB3	47:D5:62:PRO:O	2.20	0.41
1:13:55:A:C5	1:13:56:U:C5	3.08	0.41
1:13:232:G:C5	1:13:233:C:C5	3.08	0.41
1:13:298:A:H2'	1:13:299:G:C8	2.55	0.41
1:13:324:G:N2	1:13:327:A:O5'	2.43	0.41
1:13:380:G:C2	1:13:384:G:C6	3.09	0.41
1:13:687:A:C2	1:13:704:A:C5	3.09	0.41
1:13:689:C:OP1	11:2I:44:SER:OG	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:728:A:N6	15:6I:54:ARG:HG3	2.35	0.41
1:13:749:C:O2	1:13:750:G:C8	2.73	0.41
1:13:750:G:C2	1:13:751:U:C5	3.09	0.41
1:13:827:U:C5	1:13:872:A:N1	2.89	0.41
1:13:916:G:H2'	1:13:917:G:H8	1.85	0.41
1:13:988:G:H2'	1:13:989:C:O4'	2.21	0.41
1:13:1053:G:C4	1:13:1199:U:C4	3.09	0.41
1:13:1093:A:C2	1:13:1095:U:H5'	2.56	0.41
1:13:1202:G:H8	1:13:1202:G:O5'	2.04	0.41
1:13:1367:C:H5"	9:8E:114:TYR:CB	2.50	0.41
1:13:1372:U:H5"	9:8E:71:SER:CB	2.47	0.41
2:1E:21:ARG:HB3	2:1E:39:ILE:HD13	2.02	0.41
2:1E:23:ARG:HB3	2:1E:23:ARG:CZ	2.51	0.41
2:1E:170:GLU:CD	2:1E:170:GLU:N	2.78	0.41
3:2E:90:GLU:O	3:2E:94:LEU:HD23	2.21	0.41
3:2E:152:ILE:HG13	3:2E:167:TRP:HB2	2.03	0.41
4:3E:108:LEU:HD12	4:3E:174:LEU:HD13	2.03	0.41
6:5E:5:GLU:HG3	6:5E:93:SER:OG	2.21	0.41
7:6E:16:LEU:HD23	7:6E:16:LEU:HA	1.69	0.41
8:7E:101:PRO:HG2	8:7E:133:LEU:HD11	2.02	0.41
8:7E:121:ASP:O	8:7E:125:ARG:HB2	2.21	0.41
9:8E:6:GLY:O	9:8E:17:VAL:HG23	2.20	0.41
9:8E:96:LEU:O	9:8E:99:LEU:HB2	2.21	0.41
10:1I:86:MET:HE3	10:1I:87:THR:HG23	2.01	0.41
11:2I:66:LEU:HD23	11:2I:66:LEU:HA	1.64	0.41
15:6I:36:ILE:HG22	15:6I:37:ASN:N	2.36	0.41
16:7I:72:ARG:O	16:7I:75:ARG:HB3	2.21	0.41
17:8I:45:HIS:ND1	17:8I:46:ASP:N	2.69	0.41
20:BI:16:HIS:HA	20:BI:19:SER:HB3	2.03	0.41
20:BI:34:LYS:HE3	20:BI:34:LYS:HB2	1.92	0.41
22:1K:45:A:H8	22:1K:45:A:O5'	2.04	0.41
24:3K:5:G:C5	24:3K:6:G:N7	2.89	0.41
26:1H:234:C:H2'	26:1H:235:U:H6	1.86	0.41
26:1H:299:A:H62	26:1H:300:A:N6	2.18	0.41
26:1H:526:A:N3	26:1H:2044:C:H1'	2.36	0.41
26:1H:661:C:O3'	37:78:15:ARG:NE	2.54	0.41
26:1H:722:A:C2	26:1H:723:G:C4	3.08	0.41
26:1H:743:G:N2	26:1H:754:C:O2	2.43	0.41
26:1H:836:G:H5"	26:1H:837:C:OP2	2.20	0.41
26:1H:844:C:C5	26:1H:845:G:C5	3.09	0.41
26:1H:860:U:H5	26:1H:917:A:N1	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:943:U:P	59:1H:4353:HOH:O	2.76	0.41
26:1H:988:A:H4'	26:1H:1155:A:N1	2.36	0.41
26:1H:1049:C:H1'	26:1H:1113:U:H4'	2.03	0.41
26:1H:1408:C:C2	26:1H:1595:G:N2	2.89	0.41
26:1H:1470:G:N2	26:1H:1522:G:OP2	2.45	0.41
26:1H:1475:G:N2	26:1H:1476:C:C2	2.88	0.41
26:1H:1526:G:C6	26:1H:1527:G:C2	3.09	0.41
26:1H:1742:C:O5'	26:1H:1742:C:H6	2.04	0.41
26:1H:1760:A:H2'	26:1H:1761:C:C6	2.55	0.41
26:1H:1900:A:N1	26:1H:1970:A:C6	2.89	0.41
26:1H:1975:G:C6	26:1H:1976:U:N3	2.89	0.41
26:1H:2151:G:O2'	26:1H:2152:G:H5'	2.21	0.41
26:1H:2262:U:O2'	26:1H:2263:C:H5'	2.20	0.41
26:1H:2281:C:O2'	26:1H:2282:G:H5'	2.21	0.41
26:1H:2757:A:H5"	59:1H:4324:HOH:O	2.21	0.41
26:1H:2819:G:C6	26:1H:2821:A:C2	3.09	0.41
27:16:63:G:N2	27:16:64:C:C2	2.89	0.41
29:11:33:LEU:HA	29:11:33:LEU:HD23	1.75	0.41
29:11:60:ARG:HD3	29:11:86:PRO:CB	2.33	0.41
29:11:120:GLY:N	29:11:130:ALA:O	2.53	0.41
29:11:155:LEU:HD13	29:11:155:LEU:N	2.36	0.41
29:11:177:LEU:HD12	29:11:181:GLU:HG2	2.02	0.41
29:11:264:LYS:HG2	29:11:266:SER:HB3	2.01	0.41
30:21:6:GLY:HA3	30:21:26:ILE:HD11	2.01	0.41
30:21:166:THR:HG21	30:21:199:ARG:HH22	1.86	0.41
31:31:31:HIS:NE2	31:31:35:GLU:OE2	2.53	0.41
32:41:49:ASP:OD2	32:41:51:ARG:HB3	2.20	0.41
32:41:61:ALA:HA	32:41:66:GLN:O	2.20	0.41
32:41:68:PRO:HB3	32:41:92:VAL:HB	2.02	0.41
35:58:14:VAL:HG12	35:58:15:LEU:H	1.86	0.41
37:78:100:LEU:O	37:78:105:LEU:HD12	2.20	0.41
37:78:112:LEU:HD23	37:78:112:LEU:HA	1.79	0.41
38:88:1:MET:HB3	38:88:2:LEU:H	1.69	0.41
38:88:26:TYR:C	38:88:27:VAL:HG23	2.46	0.41
38:88:37:LEU:HB2	38:88:128:LYS:O	2.21	0.41
39:98:28:LEU:O	39:98:28:LEU:HD22	2.20	0.41
40:A8:65:VAL:O	40:A8:69:VAL:HG12	2.21	0.41
43:D8:35:LEU:HD11	43:D8:57:VAL:HG12	2.03	0.41
46:G8:31:LEU:CD1	46:G8:36:ALA:HB3	2.51	0.41
46:G8:39:VAL:O	46:G8:39:VAL:HG12	2.21	0.41
47:H8:56:VAL:HA	47:H8:70:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:H8:137:ILE:HG22	47:H8:155:LEU:HD22	2.02	0.41
49:J8:50:ARG:HG2	49:J8:59:THR:OG1	2.21	0.41
50:K8:18:PRO:O	50:K8:21:LEU:N	2.54	0.41
51:L8:35:ARG:HB3	51:L8:37:LEU:HD22	2.02	0.41
52:M8:14:ILE:HG13	52:M8:31:ILE:HB	2.03	0.41
53:N8:33:CYS:HB3	53:N8:36:CYS:O	2.21	0.41
54:P8:27:GLY:HA2	54:P8:30:VAL:HG23	2.02	0.41
1:1G:39:G:N7	1:1G:547:A:H2'	2.36	0.41
1:1G:191:G:C6	1:1G:192:U:C4	3.09	0.41
1:1G:245:C:C2	1:1G:284:G:C2	3.09	0.41
1:1G:328:C:H4'	1:1G:329:A:H5"	2.02	0.41
1:1G:391:G:C6	1:1G:392:G:C5	3.09	0.41
1:1G:458:C:C2	1:1G:464:G:C8	3.08	0.41
1:1G:512:U:H2'	1:1G:513:C:H6	1.83	0.41
1:1G:529:G:HO2'	1:1G:533:A:N6	2.19	0.41
1:1G:603:U:H2'	1:1G:604:G:C8	2.56	0.41
1:1G:738:C:H2'	1:1G:739:C:C6	2.56	0.41
1:1G:983:A:N3	1:1G:983:A:H3'	2.36	0.41
1:1G:1004:A:H5"	1:1G:1025:U:C4	2.55	0.41
1:1G:1093:A:N3	1:1G:1095:U:H5"	2.36	0.41
1:1G:1121:U:H2'	1:1G:1122:U:C6	2.56	0.41
1:1G:1260:C:H3'	1:1G:1260:C:H6	1.86	0.41
1:1G:1261:A:H5'	1:1G:1283:G:O3'	2.21	0.41
1:1G:1318:A:O2'	19:AA:37:ARG:HG2	2.21	0.41
1:1G:1353:G:H1	1:1G:1369:C:H42	1.68	0.41
1:1G:1417:G:H2'	1:1G:1482:G:N2	2.36	0.41
2:12:128:GLU:HG3	2:12:129:GLU:OE1	2.20	0.41
3:22:40:ARG:NH1	3:22:57:ILE:HD12	2.36	0.41
6:52:60:PHE:C	6:52:61:LEU:HD12	2.46	0.41
8:72:44:PHE:CD1	8:72:80:ILE:HG13	2.55	0.41
13:4A:34:LEU:HB2	13:4A:39:ILE:HB	2.02	0.41
13:4A:70:LEU:HD23	13:4A:70:LEU:HA	1.83	0.41
16:7A:5:ARG:HE	16:7A:22:THR:CG2	2.33	0.41
56:2L:44:A:H2'	56:2L:45:A:C8	2.55	0.41
26:14:26:G:C6	26:14:27:G:C6	3.09	0.41
26:14:55:G:O2'	26:14:127:A:N1	2.47	0.41
26:14:111:A:C6	26:14:112:U:C4	3.09	0.41
26:14:380:U:H2'	26:14:381:G:C8	2.56	0.41
26:14:642:G:C8	26:14:642:G:C3'	3.04	0.41
26:14:659:C:H4'	31:39:100:THR:O	2.21	0.41
26:14:819:A:H2'	26:14:820:A:H5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:926:A:H5"	26:14:928:G:OP2	2.21	0.41
26:14:1054:A:H62	26:14:1104:C:N4	2.16	0.41
26:14:1061:U:H3'	26:14:1062:G:H5'	2.03	0.41
26:14:1299:G:C5	26:14:1639:U:C5	3.09	0.41
26:14:1349:A:N6	26:14:1598:C:N4	2.69	0.41
26:14:1387:C:H5'	26:14:1469:A:H4'	2.03	0.41
26:14:1411:C:H2'	26:14:1412:A:C8	2.55	0.41
26:14:1465:G:H5'	26:14:1528:A:O2'	2.21	0.41
26:14:1564:C:O2'	26:14:1565:C:H5'	2.20	0.41
26:14:1567:A:OP2	29:19:84:TYR:OH	2.31	0.41
26:14:1791:A:O2'	29:19:207:GLY:HA2	2.21	0.41
26:14:1887:C:H3'	26:14:1888:G:H5"	2.02	0.41
26:14:1949:G:H2'	26:14:1950:G:O4'	2.21	0.41
26:14:2026:C:C4	26:14:2027:G:N7	2.89	0.41
26:14:2041:U:C2	26:14:2042:A:C8	3.09	0.41
26:14:2154:G:C6	26:14:2155:G:C5	3.08	0.41
26:14:2208:U:H4'	29:19:151:LYS:HG2	2.02	0.41
26:14:2233:U:H2'	26:14:2234:G:C8	2.55	0.41
26:14:2238:G:N3	26:14:2238:G:H2'	2.36	0.41
26:14:2299:G:C6	26:14:2318:G:N7	2.89	0.41
26:14:2355:C:H5"	26:14:2356:C:OP2	2.21	0.41
26:14:2428:G:H8	26:14:2428:G:O5'	2.03	0.41
26:14:2567:G:C4	26:14:2568:C:C5	3.08	0.41
27:1J:95:U:N3	27:1J:96:G:N7	2.68	0.41
29:19:118:VAL:HG22	29:19:119:ALA:H	1.86	0.41
30:29:35:GLN:O	30:29:48:GLN:HB2	2.21	0.41
31:39:110:LEU:O	31:39:114:VAL:HG23	2.21	0.41
32:49:145:THR:OG1	32:49:148:MET:N	2.54	0.41
32:49:166:ASP:OD1	32:49:166:ASP:N	2.46	0.41
33:59:30:LYS:HD3	33:59:80:SER:O	2.21	0.41
34:69:41:GLU:H	34:69:41:GLU:HG3	1.60	0.41
34:69:74:ASN:O	34:69:139:GLN:NE2	2.54	0.41
36:25:7:TYR:C	36:25:8:LEU:HD23	2.46	0.41
37:35:35:HIS:HB3	37:35:36:LYS:H	1.66	0.41
37:35:107:LYS:C	37:35:109:GLY:H	2.29	0.41
39:55:37:THR:HB	39:55:39:PRO:HD2	2.03	0.41
40:65:69:VAL:HG13	40:65:101:LEU:HD13	2.03	0.41
41:75:27:THR:CG2	41:75:90:GLN:HB3	2.51	0.41
42:85:74:LEU:H	42:85:74:LEU:HD23	1.86	0.41
43:95:64:HIS:ND1	43:95:92:THR:OG1	2.39	0.41
47:D5:124:ILE:HD12	47:D5:124:ILE:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:G5:50:ILE:HD13	50:G5:50:ILE:H	1.86	0.41
52:I5:10:VAL:HA	52:I5:11:PRO:HD2	1.83	0.41
1:13:21:G:C2	1:13:22:G:C5	3.09	0.41
1:13:116:A:H2'	1:13:117:G:O4'	2.21	0.41
1:13:191(C):G:H2'	1:13:191(D):U:O4'	2.20	0.41
1:13:411:A:C8	1:13:413:G:C8	3.09	0.41
1:13:489:C:H2'	1:13:490:G:H8	1.86	0.41
1:13:1100:C:HO2'	1:13:1102:A:P	2.43	0.41
1:13:1104:G:H4'	2:1E:111:ARG:NH1	2.36	0.41
1:13:1309:G:C6	1:13:1310:G:C5	3.08	0.41
2:1E:69:LEU:HB2	2:1E:159:PRO:HG3	2.03	0.41
6:5E:67:MET:HB2	6:5E:68:PRO:HD2	2.03	0.41
15:6I:82:ILE:HG23	15:6I:87:ILE:HB	2.03	0.41
19:AI:30:LEU:H	19:AI:30:LEU:HD13	1.86	0.41
23:2K:38:A:C4	23:2K:39:A:C8	3.09	0.41
26:1H:311:A:C6	26:1H:328:U:C4	3.09	0.41
26:1H:466:A:N3	26:1H:683:C:H1'	2.36	0.41
26:1H:628:G:H2'	26:1H:629:G:C8	2.56	0.41
26:1H:1301:A:N3	26:1H:1301:A:H2'	2.35	0.41
26:1H:1345:C:H2'	26:1H:1346:G:H8	1.86	0.41
26:1H:1429:G:C5	26:1H:1568:G:C6	3.09	0.41
26:1H:1439:A:C8	26:1H:1440:G:C8	3.09	0.41
26:1H:1534:G:N2	26:1H:1538:G:N2	2.68	0.41
26:1H:1581:G:H8	26:1H:1581:G:O5'	2.04	0.41
26:1H:1725:G:N2	26:1H:1741:C:C2	2.89	0.41
26:1H:2243:U:O2'	26:1H:2244:U:H5'	2.21	0.41
26:1H:2335:A:N7	26:1H:2337:G:C5	2.89	0.41
26:1H:2512:C:H4'	30:21:122:PHE:CE2	2.56	0.41
26:1H:2880:C:H2'	26:1H:2881:C:H6	1.86	0.41
27:16:55:U:O2	27:16:56:G:C8	2.74	0.41
28:71:18:LYS:HZ2	28:71:20:TYR:HD1	1.69	0.41
28:71:45:ALA:N	28:71:212:VAL:HA	2.35	0.41
29:11:59:LYS:HD2	29:11:59:LYS:HA	1.70	0.41
29:11:136:ILE:H	29:11:136:ILE:HG12	1.67	0.41
31:31:38:ARG:O	31:31:38:ARG:HG2	2.20	0.41
31:31:161:GLU:H	31:31:161:GLU:HG2	1.67	0.41
36:68:64:ARG:HH11	36:68:64:ARG:HD2	1.77	0.41
41:B8:26:ASP:CB	41:B8:92:GLY:H	2.30	0.41
41:B8:95:ARG:HA	41:B8:95:ARG:HH11	1.86	0.41
43:D8:76:LYS:HG3	43:D8:81:TYR:CE1	2.56	0.41
44:E8:58:ALA:O	44:E8:62:HIS:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:Q8:23:VAL:CG2	55:Q8:24:ALA:N	2.82	0.41
55:Q8:57:ARG:HE	55:Q8:57:ARG:N	2.17	0.41
1:1G:302:G:H2'	1:1G:303:A:O4'	2.21	0.41
1:1G:309:G:O2'	1:1G:607:A:N1	2.54	0.41
1:1G:478:A:C6	1:1G:479:C:C4	3.09	0.41
1:1G:518:C:N3	1:1G:530:G:C6	2.88	0.41
1:1G:669:U:C4	1:1G:670:G:N7	2.89	0.41
1:1G:690:G:N2	11:2A:55:LYS:HZ3	2.19	0.41
1:1G:953:G:H5'	1:1G:965:A:H61	1.84	0.41
1:1G:993:G:H2'	1:1G:993:G:N3	2.36	0.41
1:1G:1290:G:C5	1:1G:1291:G:N7	2.89	0.41
2:12:105:PHE:O	2:12:108:ILE:N	2.54	0.41
3:22:43:LEU:HD22	3:22:43:LEU:HA	1.86	0.41
3:22:178:LEU:HA	3:22:178:LEU:HD13	1.90	0.41
4:32:138:TYR:CD1	4:32:138:TYR:C	2.99	0.41
12:3A:86:ARG:HB2	12:3A:101:VAL:HG23	2.03	0.41
21:1B:6:ARG:HH11	21:1B:15:ARG:NH1	2.19	0.41
56:2L:3:C:H42	56:2L:71:G:H1	1.69	0.41
56:2L:21:U:O2	56:2L:21:U:H2'	2.21	0.41
26:14:9:U:O4	26:14:2629:A:N7	2.54	0.41
26:14:199:A:C4	26:14:2433:A:C2	3.09	0.41
26:14:311:A:C6	26:14:328:U:C4	3.09	0.41
26:14:330:A:H2	26:14:1210:A:O2'	2.03	0.41
26:14:449:A:C5	26:14:450:G:N7	2.89	0.41
26:14:880:G:C6	26:14:881:G:N7	2.89	0.41
26:14:1168:G:N2	26:14:1182:A:N3	2.69	0.41
26:14:1388:G:N3	26:14:1389:G:C8	2.89	0.41
26:14:1509:C:O2	26:14:1509:C:H2'	2.21	0.41
26:14:2600:A:C6	26:14:2601:C:N4	2.89	0.41
27:1J:13:A:N1	27:1J:70:C:H5'	2.36	0.41
27:1J:81:G:C6	27:1J:82:G:C5	3.09	0.41
29:19:30:GLU:HG3	29:19:32:SER:O	2.21	0.41
29:19:46:GLN:H	29:19:46:GLN:HG2	1.68	0.41
32:49:56:ALA:HB2	32:49:153:ARG:CZ	2.51	0.41
33:59:140:LYS:HE2	33:59:140:LYS:HB3	1.87	0.41
37:35:62:LEU:HD12	37:35:62:LEU:HA	1.68	0.41
37:35:85:LEU:HD13	37:35:115:LEU:O	2.21	0.41
39:55:10:LEU:O	39:55:11:ASN:C	2.64	0.41
40:65:101:LEU:O	40:65:105:ALA:N	2.51	0.41
45:B5:31:HIS:HA	45:B5:32:PRO:HD3	1.76	0.41
47:D5:10:ARG:HB2	47:D5:37:VAL:CA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:321:A:C2	1:13:333:G:C2	3.09	0.40
1:13:504:C:P	59:13:1871:HOH:O	2.79	0.40
1:13:658:G:C6	1:13:659:U:C4	3.09	0.40
1:13:1011:G:H2'	1:13:1012:U:O4'	2.21	0.40
1:13:1305:G:H5'	21:1F:4:GLY:HA3	2.03	0.40
2:1E:4:GLU:HB3	2:1E:5:ILE:H	1.66	0.40
4:3E:108:LEU:CD1	4:3E:174:LEU:HD13	2.51	0.40
5:4E:152:ARG:HB3	8:7E:43:GLY:O	2.21	0.40
7:6E:26:PHE:O	7:6E:30:ILE:HG13	2.21	0.40
7:6E:148:ASN:C	7:6E:150:ALA:N	2.78	0.40
8:7E:87:SER:OG	8:7E:92:ARG:HA	2.21	0.40
10:1I:36:GLY:HA2	10:1I:37:PRO:HD3	1.88	0.40
11:2I:21:ILE:HB	11:2I:84:VAL:HG12	2.02	0.40
12:3I:62:SER:HB2	12:3I:64:TYR:CD1	2.57	0.40
12:3I:86:ARG:HH11	12:3I:86:ARG:HD3	1.70	0.40
13:4I:13:LYS:HB3	13:4I:14:ARG:H	1.51	0.40
19:AI:15:LEU:O	19:AI:19:VAL:N	2.42	0.40
20:BI:50:GLU:HB2	20:BI:100:ILE:HD13	2.02	0.40
26:1H:223:A:N1	26:1H:407:G:O2'	2.36	0.40
26:1H:347:A:H2'	26:1H:348:G:C8	2.56	0.40
26:1H:533:G:N3	42:C8:45:TYR:CE2	2.89	0.40
26:1H:631:A:N3	26:1H:2415:G:O2'	2.53	0.40
26:1H:637:A:O5'	37:78:116:GLY:HA3	2.21	0.40
26:1H:993:G:C4	26:1H:994:C:C5	3.09	0.40
26:1H:1071:G:H8	26:1H:1071:G:O5'	2.04	0.40
26:1H:1196:C:O4'	26:1H:1227:A:C2	2.74	0.40
26:1H:1289:C:H2'	26:1H:1290:C:C6	2.56	0.40
26:1H:1497:U:H3'	26:1H:1498:C:H6	1.86	0.40
26:1H:1844:C:H42	26:1H:1896:G:H1	1.68	0.40
26:1H:2114:A:N6	26:1H:2115:G:C6	2.88	0.40
26:1H:2404:C:N4	26:1H:2405:G:C6	2.89	0.40
26:1H:2551:C:H2'	26:1H:2552:U:C6	2.57	0.40
26:1H:2563:U:H4'	36:68:28:SER:HA	2.03	0.40
26:1H:2715:C:C4	26:1H:2716:U:C5	3.09	0.40
27:16:80:U:O2'	27:16:81:G:H5'	2.21	0.40
29:11:183:ARG:HD2	29:11:269:PHE:O	2.21	0.40
30:21:117:MET:HA	30:21:122:PHE:N	2.36	0.40
31:31:78:ILE:HA	31:31:83:PHE:CD2	2.55	0.40
32:41:52:ILE:HD13	32:41:52:ILE:HA	1.94	0.40
32:41:114:ILE:HG12	32:41:140:ILE:HG21	2.04	0.40
36:68:26:LYS:HD2	36:68:37:ASP:CG	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:112:LEU:HD22	37:78:113:LYS:N	2.36	0.40
39:98:92:GLY:N	39:98:94:TYR:HE1	2.19	0.40
41:B8:102:ILE:HB	41:B8:110:ILE:CD1	2.50	0.40
45:F8:44:GLU:HG2	45:F8:49:VAL:O	2.21	0.40
46:G8:64:GLU:H	46:G8:64:GLU:HG2	1.78	0.40
47:H8:18:LEU:HD12	47:H8:18:LEU:N	2.36	0.40
47:H8:36:LYS:HB2	47:H8:36:LYS:HE3	1.80	0.40
48:I8:49:LYS:O	48:I8:50:ASN:HB2	2.21	0.40
48:I8:53:MET:HG3	48:I8:59:LEU:CD2	2.47	0.40
50:K8:7:ARG:O	50:K8:11:GLU:HB2	2.22	0.40
1:1G:452:A:HO2'	1:1G:453:A:C4'	2.34	0.40
1:1G:591:U:OP2	8:72:30:ARG:HD3	2.22	0.40
1:1G:659:U:O2'	1:1G:660:G:H5'	2.21	0.40
1:1G:812:C:OP1	1:1G:903:G:H1'	2.20	0.40
1:1G:963:G:H1	1:1G:972:C:H42	1.68	0.40
1:1G:976:G:OP1	14:5A:31:ARG:HB3	2.20	0.40
1:1G:1058:G:O5'	1:1G:1058:G:H8	2.05	0.40
1:1G:1216:G:C2	1:1G:1217:C:C4	3.09	0.40
1:1G:1255:G:H22	1:1G:1276:G:N2	2.14	0.40
1:1G:1264:C:O2	1:1G:1272:G:C2	2.74	0.40
1:1G:1278:U:H5'	1:1G:1279:A:O4'	2.22	0.40
2:12:111:ARG:HD3	2:12:111:ARG:HA	1.86	0.40
4:32:106:TYR:HA	4:32:111:ALA:HB3	2.03	0.40
4:32:120:LEU:HG	4:32:120:LEU:H	1.63	0.40
5:42:60:TYR:HD2	5:42:64:ARG:HH12	1.68	0.40
9:82:79:LEU:O	9:82:83:ARG:N	2.44	0.40
12:3A:89:ARG:HG2	12:3A:90:VAL:H	1.87	0.40
13:4A:7:VAL:HG21	32:49:115:ARG:CZ	2.52	0.40
16:7A:20:VAL:HG11	16:7A:32:TYR:CE2	2.56	0.40
56:2L:53:G:H2'	56:2L:54:G:O4'	2.21	0.40
24:3L:19:G:C1'	24:3L:57:G:H21	2.34	0.40
26:14:27:G:C2	26:14:512:G:N3	2.88	0.40
26:14:50:U:H4'	26:14:51:G:OP2	2.21	0.40
26:14:96:G:H4'	50:G5:48:HIS:ND1	2.36	0.40
26:14:449:A:C4	26:14:450:G:C8	3.10	0.40
26:14:687:C:H2'	26:14:688:U:O4'	2.21	0.40
26:14:707:G:H2'	26:14:708:C:O4'	2.21	0.40
26:14:768:G:H2'	26:14:769:G:C8	2.56	0.40
26:14:862:G:N2	26:14:916:G:H1'	2.36	0.40
26:14:1287:A:N7	39:55:106:GLY:O	2.53	0.40
26:14:1433:U:O2	26:14:1561:G:C2	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1507:A:C2	26:14:1508:A:H1'	2.56	0.40
26:14:1519:G:C6	26:14:1520:U:N3	2.89	0.40
26:14:1683:C:H2'	26:14:1684:C:H6	1.83	0.40
26:14:1728:G:C2	26:14:1730:U:OP2	2.74	0.40
26:14:2181:G:H2'	26:14:2182:G:O4'	2.21	0.40
26:14:2701:C:H3'	26:14:2702:U:C5'	2.43	0.40
26:14:2737:G:H2'	26:14:2738:A:C8	2.56	0.40
26:14:2820:A:O5'	39:55:4:LEU:HD23	2.20	0.40
27:1J:76:G:H2'	27:1J:77:U:O4'	2.20	0.40
27:1J:101:A:OP2	27:1J:101:A:C8	2.70	0.40
30:29:182:LEU:HA	30:29:182:LEU:HD12	1.72	0.40
31:39:9:ILE:HA	31:39:13:SER:O	2.22	0.40
33:59:54:ARG:HD2	33:59:56:SER:O	2.21	0.40
36:25:22:ILE:HG22	36:25:40:VAL:C	2.46	0.40
39:55:30:THR:HG22	39:55:31:HIS:ND1	2.36	0.40
39:55:104:ARG:H	39:55:104:ARG:HG3	1.60	0.40
40:65:84:GLN:HA	40:65:110:LEU:CD1	2.50	0.40
42:85:50:ARG:HH12	43:95:72:VAL:HG23	1.85	0.40
42:85:92:ARG:HG3	42:85:94:ASN:HB3	2.03	0.40
42:85:98:LEU:C	42:85:100:VAL:H	2.28	0.40
44:A5:72:LYS:HB3	44:A5:106:ILE:CD1	2.50	0.40
45:B5:35:THR:HG23	45:B5:38:GLU:CB	2.51	0.40
46:C5:30:VAL:HG12	46:C5:31:LEU:N	2.36	0.40
46:C5:35:TYR:CD2	46:C5:69:ALA:HB3	2.56	0.40
52:I5:37:SER:C	52:I5:39:CYS:N	2.79	0.40
55:M5:54:GLU:H	55:M5:54:GLU:HG3	1.63	0.40
1:13:142:G:C2	1:13:143:A:C5	3.09	0.40
1:13:303:A:H2'	1:13:304:U:O4'	2.21	0.40
1:13:416:G:C6	1:13:417:C:C4	3.09	0.40
1:13:631:G:C8	1:13:632:A:C2	3.09	0.40
1:13:631:G:H2'	1:13:632:A:C4	2.56	0.40
1:13:812:C:H1'	1:13:813:U:OP2	2.22	0.40
1:13:904:C:C4	1:13:905:U:C4	3.09	0.40
1:13:937:A:H2	1:13:1377:A:O2'	2.04	0.40
1:13:949:A:C6	1:13:950:U:C4	3.10	0.40
1:13:971:G:H22	1:13:1363:A:P	2.43	0.40
1:13:1285:A:H4'	1:13:1286:A:O5'	2.21	0.40
1:13:1317:C:C2	14:5I:16:PHE:CE2	3.10	0.40
2:1E:114:ARG:NH2	2:1E:141:GLU:OE1	2.55	0.40
11:2I:60:ALA:HA	11:2I:63:LEU:HD12	2.04	0.40
18:9I:65:ILE:H	18:9I:65:ILE:HG13	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BI:57:ARG:CZ	20:BI:102:GLY:HA2	2.51	0.40
21:1F:2:GLY:C	21:1F:4:GLY:N	2.79	0.40
24:3K:9:A:N6	24:3K:22:G:O6	2.55	0.40
24:3K:56:C:H2'	24:3K:57:G:O4'	2.21	0.40
26:1H:288:C:C4	26:1H:351:G:N2	2.89	0.40
26:1H:558:G:OP2	35:58:111:PRO:HD2	2.21	0.40
26:1H:602:G:N2	26:1H:655:A:H8	2.10	0.40
26:1H:662:G:OP1	37:78:15:ARG:NE	2.40	0.40
26:1H:805:G:P	37:78:41:ARG:HG2	2.61	0.40
26:1H:972:G:H8	26:1H:972:G:O5'	2.04	0.40
26:1H:1342:A:N6	26:1H:1397:U:C5	2.89	0.40
26:1H:1534:G:N3	26:1H:1534:G:H3'	2.36	0.40
26:1H:1580:A:H8	26:1H:1580:A:OP2	2.04	0.40
26:1H:1586:A:C2	26:1H:1587:A:C5	3.08	0.40
26:1H:1972:A:H5'	59:1H:4393:HOH:O	2.21	0.40
26:1H:2310:A:H62	32:41:79:ASN:HB2	1.86	0.40
26:1H:2396:G:H4'	49:J8:29:GLY:O	2.21	0.40
26:1H:2422:A:C5	26:1H:2424:C:N4	2.89	0.40
26:1H:2461:C:C2	26:1H:2462:U:C5	3.09	0.40
26:1H:2504:U:H5"	59:1H:3523:HOH:O	2.21	0.40
26:1H:2595:G:C5	59:1H:3921:HOH:O	2.73	0.40
26:1H:2607:G:H4'	59:1H:3908:HOH:O	2.21	0.40
27:16:17:C:N4	27:16:108:C:N3	2.68	0.40
29:11:63:ARG:HG2	29:11:92:ILE:CD1	2.51	0.40
30:21:105:THR:HG21	30:21:164:ARG:CZ	2.51	0.40
30:21:147:PRO:HB2	30:21:149:ARG:CG	2.47	0.40
34:61:29:TYR:C	34:61:32:PRO:HD2	2.46	0.40
37:78:91:PHE:CD1	37:78:91:PHE:N	2.89	0.40
37:78:114:ILE:HD11	37:78:130:PHE:CD2	2.56	0.40
41:B8:48:ILE:O	41:B8:63:VAL:HA	2.22	0.40
41:B8:114:LEU:HA	41:B8:114:LEU:HD23	1.71	0.40
46:G8:17:SER:OG	46:G8:71:LYS:HD2	2.22	0.40
46:G8:44:ILE:HA	46:G8:63:LYS:O	2.21	0.40
55:Q8:47:LYS:NZ	55:Q8:47:LYS:CA	2.84	0.40
1:1G:102:G:H2'	1:1G:103:C:C6	2.56	0.40
1:1G:294:U:H6	1:1G:294:U:O5'	2.03	0.40
1:1G:406:G:C2	1:1G:407:G:C8	3.09	0.40
1:1G:866:C:N3	1:1G:867:G:H1'	2.37	0.40
1:1G:1028(A):C:C4	1:1G:1028(B):C:H5	2.38	0.40
1:1G:1047:G:H8	1:1G:1047:G:O5'	2.05	0.40
1:1G:1074:G:H2'	1:1G:1075:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:22:94:LEU:HD12	3:22:95:THR:H	1.86	0.40
4:32:153:ARG:HA	4:32:181:MET:HE1	2.03	0.40
5:42:41:VAL:O	5:42:67:VAL:N	2.53	0.40
7:62:143:ARG:HH12	24:3L:42:C:P	2.42	0.40
13:4A:3:ARG:HB2	52:I5:34:GLU:CG	2.48	0.40
13:4A:58:GLU:HG3	13:4A:59:TYR:N	2.36	0.40
13:4A:94:ARG:NH2	19:AA:78:ARG:HH12	2.19	0.40
18:9A:70:ILE:O	18:9A:74:ARG:HG3	2.20	0.40
24:3L:10:G:C5	24:3L:26:A:C2	3.10	0.40
24:3L:76:A:H61	26:14:2422:A:C5'	2.33	0.40
26:14:25:U:C5'	44:A5:79:GLY:HA2	2.52	0.40
26:14:74:A:H4'	26:14:75:G:O5'	2.21	0.40
26:14:265:A:C8	26:14:266:G:H1'	2.57	0.40
26:14:621:A:H2'	26:14:622:G:H5'	2.03	0.40
26:14:638:G:C5	26:14:639:U:C5	3.09	0.40
26:14:977:G:N3	26:14:978:G:C8	2.89	0.40
26:14:1234:U:C4	26:14:1235:G:C5	3.10	0.40
26:14:1836:C:O2'	26:14:1837:C:H5'	2.21	0.40
26:14:2111:C:C4	26:14:2145:C:N3	2.89	0.40
26:14:2404:C:O3'	37:35:77:ARG:NH2	2.54	0.40
26:14:2684:U:H2'	26:14:2685:G:O4'	2.20	0.40
26:14:2688:U:H1'	26:14:2721:A:N6	2.37	0.40
26:14:2766:G:C2	26:14:2767:C:C6	3.09	0.40
26:14:2867:G:C8	41:75:23:ARG:NH1	2.89	0.40
29:19:273:ARG:O	29:19:274:ARG:C	2.64	0.40
31:39:82:ILE:O	31:39:82:ILE:HG22	2.21	0.40
34:69:76:THR:HG21	34:69:139:GLN:O	2.20	0.40
34:69:102:SER:HB3	34:69:108:THR:HG23	2.02	0.40
38:45:16:ARG:HE	38:45:16:ARG:HB2	1.28	0.40
40:65:15:ARG:O	40:65:19:LYS:HD3	2.20	0.40
41:75:19:LEU:HA	41:75:20:PRO:HD3	1.93	0.40
44:A5:23:LEU:HD13	44:A5:23:LEU:HA	1.91	0.40
45:B5:3:THR:HG22	45:B5:6:ASP:OD2	2.20	0.40
47:D5:53:ILE:HA	47:D5:70:LEU:HD22	2.03	0.40
53:J5:16:ARG:HG3	53:J5:17:ASP:OD1	2.20	0.40
1:13:101:A:C4	1:13:102:G:C8	3.10	0.40
1:13:232:G:H2'	1:13:233:C:C6	2.57	0.40
1:13:315:A:H5"	1:13:317:G:OP2	2.21	0.40
1:13:317:G:C6	1:13:318:G:C5	3.09	0.40
1:13:329:A:C6	1:13:332:G:C2	3.09	0.40
1:13:397:A:N7	1:13:548:G:C8	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:872:A:C2	1:13:874:G:C6	3.10	0.40
1:13:1057:G:C6	1:13:1058:G:C4	3.10	0.40
1:13:1331:G:OP2	13:4I:23:TYR:HD1	2.05	0.40
1:13:1422:G:H5"	36:68:48:PRO:CB	2.51	0.40
3:2E:12:LEU:HB3	3:2E:13:GLY:H	1.59	0.40
5:4E:12:LEU:HG	5:4E:13:ILE:N	2.36	0.40
5:4E:20:GLN:HG2	5:4E:21:ALA:H	1.86	0.40
9:8E:42:ARG:H	9:8E:42:ARG:HG2	1.62	0.40
11:2I:32:ILE:H	11:2I:32:ILE:HG13	1.76	0.40
13:4I:90:LEU:O	13:4I:93:ARG:HB2	2.22	0.40
13:4I:108:ARG:HH11	13:4I:108:ARG:CG	2.25	0.40
15:6I:32:LEU:C	15:6I:34:LEU:N	2.79	0.40
16:7I:4:ILE:HG12	16:7I:21:VAL:HG22	2.03	0.40
16:7I:43:LYS:HG2	16:7I:48:TRP:CZ3	2.56	0.40
17:8I:25:ARG:O	17:8I:37:LYS:HA	2.21	0.40
20:BI:43:LEU:O	20:BI:46:GLU:N	2.53	0.40
23:2K:20:G:C4	23:2K:58:A:C2	3.10	0.40
26:1H:7:G:N2	26:1H:8:A:N3	2.70	0.40
26:1H:55:G:C2	26:1H:116:C:C2	3.09	0.40
26:1H:378:C:C2'	26:1H:379:G:H5'	2.51	0.40
26:1H:414:C:H4'	26:1H:1879:C:O2	2.21	0.40
26:1H:958:U:O2	27:16:89(A):A:H4'	2.21	0.40
26:1H:1280:G:N2	26:1H:1291:C:C2	2.90	0.40
26:1H:1322:A:C2'	26:1H:1323:U:H5'	2.52	0.40
26:1H:1619:G:N3	26:1H:1619:G:H2'	2.36	0.40
26:1H:1690:A:H8	26:1H:1690:A:O5'	2.03	0.40
26:1H:1844:C:H5"	29:11:258:LYS:HD3	2.03	0.40
26:1H:2032:G:N2	30:21:146:THR:HG23	2.19	0.40
26:1H:2598:A:OP1	59:1H:3556:HOH:O	2.22	0.40
26:1H:2794:C:N4	26:1H:2802:G:O6	2.54	0.40
26:1H:2810:A:H2'	26:1H:2811:G:O4'	2.21	0.40
27:16:10:C:N4	27:16:110:G:H1	2.18	0.40
29:11:105:ILE:HD12	29:11:105:ILE:HA	1.80	0.40
29:11:177:LEU:HB3	29:11:178:PRO:CD	2.51	0.40
30:21:202:LYS:HA	30:21:202:LYS:HD3	1.94	0.40
32:41:112:PRO:HG3	52:M8:38:LYS:HD2	2.03	0.40
33:51:54:ARG:HE	33:51:62:LYS:HG3	1.85	0.40
33:51:92:ILE:HD11	33:51:160:LYS:HZ2	1.84	0.40
37:78:31:ALA:C	37:78:33:ARG:N	2.79	0.40
42:C8:58:ARG:HH11	42:C8:93:LYS:NZ	2.19	0.40
46:G8:77:PRO:HD2	46:G8:97:ARG:HD3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:H8:16:SER:HB2	47:H8:20:ARG:NH1	2.36	0.40
47:H8:128:VAL:CB	47:H8:161:VAL:HG21	2.51	0.40
48:I8:14:ARG:HD3	59:I8:205:HOH:O	2.21	0.40
49:J8:16:ASN:HB3	49:J8:37:ILE:HG23	2.03	0.40
49:J8:87:PRO:O	49:J8:88:LYS:C	2.64	0.40
51:L8:30:ARG:H	51:L8:30:ARG:HG3	1.65	0.40
52:M8:14:ILE:HD13	52:M8:14:ILE:HG21	1.87	0.40
55:Q8:8:LYS:HD2	55:Q8:8:LYS:H	1.85	0.40
55:Q8:9:GLY:H	55:Q8:12:LYS:H	1.68	0.40
55:Q8:22:VAL:HG22	55:Q8:47:LYS:HZ2	1.86	0.40
1:1G:12:U:H4'	1:1G:526:C:H4'	2.04	0.40
1:1G:318:G:H2'	1:1G:319:G:H8	1.87	0.40
1:1G:334:C:H2'	1:1G:335:C:H6	1.85	0.40
1:1G:617:G:N2	1:1G:618:C:N3	2.69	0.40
1:1G:801:U:H2'	1:1G:802:A:H8	1.86	0.40
1:1G:1015:A:H2'	1:1G:1016:A:C8	2.56	0.40
1:1G:1046:A:H5'	1:1G:1047:G:OP2	2.21	0.40
1:1G:1050:G:C6	1:1G:1051:C:N4	2.90	0.40
1:1G:1112:C:C4	3:22:178:LEU:HD23	2.57	0.40
1:1G:1305:G:P	1:1G:1305:G:O4'	2.79	0.40
1:1G:1331:G:H4'	1:1G:1331:G:OP1	2.21	0.40
1:1G:1346:A:N1	1:1G:1374:A:H5"	2.36	0.40
2:12:8:LYS:NZ	2:12:213:LEU:HD21	2.37	0.40
2:12:69:LEU:HA	2:12:91:PRO:O	2.21	0.40
4:32:155:LEU:HD23	4:32:155:LEU:HA	1.90	0.40
5:42:135:THR:O	5:42:139:LEU:HG	2.21	0.40
7:62:44:TYR:O	7:62:47:CYS:N	2.55	0.40
12:3A:30:ALA:HB2	12:3A:33:ARG:HH11	1.85	0.40
13:4A:13:LYS:HG2	13:4A:14:ARG:N	2.35	0.40
13:4A:14:ARG:NH1	13:4A:42:ALA:HA	2.36	0.40
14:5A:12:ARG:H	14:5A:12:ARG:HG3	1.45	0.40
24:3L:67:C:H2'	24:3L:68:C:C6	2.57	0.40
26:14:141:A:N6	26:14:1595:G:O2'	2.54	0.40
26:14:621:A:H3'	26:14:622:G:H8	1.87	0.40
26:14:817:C:O5'	26:14:817:C:H6	2.05	0.40
26:14:900:A:H2'	26:14:900:A:N3	2.37	0.40
26:14:1285:G:C5	26:14:1329:U:C4	3.08	0.40
26:14:1322:A:C2'	26:14:1323:U:H5'	2.51	0.40
26:14:1464:C:O2'	26:14:1528:A:C8	2.71	0.40
26:14:1672:C:H5"	26:14:1673:U:OP2	2.21	0.40
26:14:2082:A:H2'	26:14:2083:G:O4'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2305:A:H5”	32:49:134:GLY:HA3	2.04	0.40
27:1J:17:C:H2’	27:1J:18:G:O4’	2.20	0.40
27:1J:66:A:N1	27:1J:108:C:C6	2.89	0.40
30:29:1:MET:HA	30:29:84:PHE:HB2	2.03	0.40
30:29:195:LEU:HD12	30:29:195:LEU:HA	1.76	0.40
31:39:65:TRP:CD1	31:39:65:TRP:N	2.84	0.40
31:39:68:LYS:HD3	31:39:68:LYS:HA	1.82	0.40
31:39:132:VAL:HG23	31:39:163:VAL:HG23	2.03	0.40
31:39:195:ASP:OD1	31:39:196:LEU:N	2.54	0.40
32:49:61:ALA:HA	32:49:64:THR:HG23	2.02	0.40
33:59:17:VAL:HG23	33:59:25:LYS:O	2.21	0.40
33:59:37:VAL:HG13	33:59:38:SER:O	2.20	0.40
38:45:1:MET:N	38:45:69:PHE:HE1	2.20	0.40
38:45:3:MET:HB2	38:45:93:TYR:CE1	2.56	0.40
41:75:32:TYR:CE1	41:75:82:LEU:HB3	2.56	0.40
41:75:39:ARG:NH1	41:75:41:ARG:HB3	2.36	0.40
42:85:27:LEU:HA	42:85:27:LEU:HD22	1.71	0.40
47:D5:18:LEU:HD12	47:D5:23:LYS:HB2	2.03	0.40
47:D5:62:PRO:O	47:D5:63:ASP:HB3	2.21	0.40
47:D5:127:LYS:HE2	47:D5:127:LYS:HB3	1.66	0.40
48:E5:28:GLY:HA2	48:E5:66:VAL:HG13	2.03	0.40
1:13:145:G:H1	1:13:177:C:H42	1.70	0.40
1:13:236:G:H5”	17:8I:42:TYR:OH	2.20	0.40
1:13:259:G:C6	1:13:260:G:C4	3.10	0.40
1:13:262:A:C6	1:13:263:A:C6	3.10	0.40
1:13:598:U:H4’	8:7E:94:TYR:CG	2.57	0.40
1:13:1179:A:H5’	9:8E:102:LEU:O	2.20	0.40
1:13:1413:A:H2’	1:13:1414:U:O4’	2.21	0.40
1:13:1439:C:O5’	1:13:1439:C:H6	2.05	0.40
1:13:1442:G:C8	1:13:1442:G:C3’	3.04	0.40
4:3E:4:TYR:CG	4:3E:5:ILE:N	2.90	0.40
4:3E:20:TYR:HE1	6:52:16:GLN:NE2	2.19	0.40
10:1I:57:LYS:HD2	10:1I:60:ARG:NH1	2.36	0.40
12:3I:82:VAL:HG13	12:3I:105:TYR:HB3	2.02	0.40
15:6I:79:ARG:O	15:6I:79:ARG:HG2	2.21	0.40
17:8I:68:ARG:HG3	17:8I:68:ARG:O	2.21	0.40
17:8I:92:ARG:O	17:8I:95:TYR:HB2	2.21	0.40
24:3K:70:G:C6	24:3K:71:G:C5	3.10	0.40
26:1H:141:A:H1’	26:1H:1408:C:C1’	2.51	0.40
26:1H:1078:U:H6	26:1H:1078:U:OP2	2.04	0.40
26:1H:1169:G:N2	26:1H:1181:C:N3	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1462:C:H4'	26:1H:2703:C:O4'	2.22	0.40
26:1H:1794:U:H1'	26:1H:1900:A:N3	2.36	0.40
26:1H:1820:U:O2	29:11:202:LYS:HB3	2.22	0.40
26:1H:2634:G:N2	30:21:37:ARG:HH22	2.19	0.40
26:1H:2650:U:H2'	26:1H:2651:C:C6	2.56	0.40
26:1H:2663:G:C6	26:1H:2664:G:C4	3.10	0.40
26:1H:2696:U:H2'	26:1H:2697:G:C8	2.56	0.40
26:1H:2766:G:C2	26:1H:2767:C:C6	3.10	0.40
27:16:94:C:C4	27:16:95:U:C5	3.09	0.40
29:11:60:ARG:HD2	29:11:87:ASN:ND2	2.37	0.40
29:11:172:TYR:CD1	29:11:186:HIS:HA	2.56	0.40
30:21:67:PHE:O	30:21:69:LYS:N	2.55	0.40
31:31:10:PRO:O	31:31:124:LEU:HD12	2.22	0.40
31:31:28:ILE:O	31:31:28:ILE:HD12	2.21	0.40
32:41:97:ASP:H	32:41:100:TRP:CD1	2.40	0.40
34:61:38:LEU:HD21	49:J8:71:TYR:HB3	2.03	0.40
35:58:41:ASP:O	42:C8:64:ARG:NH2	2.54	0.40
37:78:78:PRO:HB3	37:78:111:ARG:NH2	2.37	0.40
37:78:135:LEU:HD22	37:78:139:LYS:HE2	2.03	0.40
39:98:44:LEU:HD22	39:98:48:VAL:HG13	2.02	0.40
40:A8:7:TYR:HA	40:A8:10:ARG:HH21	1.87	0.40
40:A8:8:GLU:HA	40:A8:11:LYS:HB3	2.04	0.40
47:H8:18:LEU:H	47:H8:18:LEU:CD1	2.34	0.40
51:L8:6:VAL:HG12	51:L8:54:VAL:HG22	2.03	0.40
54:P8:10:ARG:HH11	54:P8:10:ARG:HD3	1.66	0.40
1:1G:124:G:C6	1:1G:125:U:N3	2.90	0.40
1:1G:649:G:H2'	1:1G:650:G:H8	1.87	0.40
1:1G:689:C:H2'	1:1G:689:C:O2	2.21	0.40
1:1G:933:G:OP2	7:62:3:ARG:HB2	2.22	0.40
1:1G:1004:A:H5'	1:1G:1024:G:O6	2.22	0.40
1:1G:1014:A:H5'	19:AA:15:LEU:HG	2.03	0.40
1:1G:1065:U:C5	1:1G:1190:G:N3	2.89	0.40
1:1G:1157:A:H1'	1:1G:1158:C:OP2	2.22	0.40
1:1G:1177:G:O2'	1:1G:1178:G:C8	2.66	0.40
1:1G:1227:A:H3'	1:1G:1227:A:H8	1.86	0.40
1:1G:1268:A:O2'	21:1B:19:GLY:HA2	2.22	0.40
1:1G:1379:G:OP2	7:62:6:ARG:NH1	2.54	0.40
1:1G:1438:G:C6	1:1G:1439:C:C4	3.09	0.40
2:12:54:THR:HG21	2:12:201:ILE:HD11	2.03	0.40
3:22:62:ASP:O	3:22:97:LYS:HB2	2.21	0.40
4:32:108:LEU:HD21	4:32:184:LYS:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:42:127:ASN:HA	5:42:128:PRO:HD3	1.87	0.40
7:62:92:SER:HB3	7:62:94:ARG:HG2	2.04	0.40
7:62:111:ARG:NH2	7:62:122:HIS:HB3	2.36	0.40
7:62:126:ASP:O	7:62:129:GLU:HG2	2.20	0.40
9:82:26:VAL:HG13	9:82:61:ALA:O	2.21	0.40
9:82:48:GLU:N	9:82:49:PRO:HD2	2.36	0.40
9:82:94:ALA:O	9:82:98:PRO:HG2	2.22	0.40
18:9A:55:ARG:HH11	18:9A:55:ARG:HG3	1.87	0.40
56:2L:20:G:O2'	56:2L:21:U:H5'	2.21	0.40
24:3L:48:C:H5"	24:3L:59:U:H5'	2.03	0.40
26:14:120:U:P	59:14:3927:HOH:O	2.80	0.40
26:14:171:G:H2'	26:14:172:C:C6	2.56	0.40
26:14:581:C:C2	26:14:582:G:N7	2.90	0.40
26:14:631:A:H2'	26:14:632:A:O4'	2.22	0.40
26:14:659:C:H2'	26:14:660:G:H8	1.86	0.40
26:14:714:U:O2	26:14:716:A:C8	2.74	0.40
26:14:902:C:H2'	26:14:903:C:C5	2.57	0.40
26:14:1235:G:C6	26:14:1236:G:N1	2.89	0.40
26:14:1349:A:N6	26:14:1598:C:H42	2.19	0.40
26:14:1783:A:C2	26:14:2587:A:C5	3.09	0.40
26:14:1975:G:H5"	59:14:3497:HOH:O	2.21	0.40
26:14:2015:A:O5'	26:14:2015:A:H8	2.04	0.40
26:14:2138:C:C2	26:14:2154:G:N1	2.90	0.40
26:14:2213:U:H2'	26:14:2215:G:H5'	2.03	0.40
26:14:2321:G:H2'	26:14:2321:G:N3	2.36	0.40
26:14:2370:G:H2'	26:14:2371:G:O4'	2.22	0.40
26:14:2445:G:C2'	26:14:2446:G:H5'	2.52	0.40
26:14:2517:C:HO2'	26:14:2519:U:H5	1.67	0.40
26:14:2636:U:H4'	30:29:80:GLU:CD	2.46	0.40
26:14:2646:C:H6	26:14:2646:C:O5'	2.04	0.40
27:1J:13:A:H5"	27:1J:15:A:N6	2.36	0.40
29:19:232:PRO:HA	59:19:301:HOH:O	2.22	0.40
30:29:31:CYS:O	30:29:91:VAL:HG22	2.22	0.40
31:39:63:LYS:HE2	31:39:67:GLN:HB3	2.02	0.40
31:39:110:LEU:HD21	31:39:181:LEU:HD13	2.01	0.40
32:49:94:LEU:HD23	32:49:94:LEU:HA	1.80	0.40
33:59:27:LYS:HD2	33:59:32:GLU:HG3	2.03	0.40
38:45:79:LEU:N	38:45:80:GLU:HG2	2.36	0.40
40:65:33:LYS:HE2	40:65:34:HIS:HE1	1.86	0.40
42:85:65:ILE:HG22	42:85:66:ASN:N	2.33	0.40
46:C5:28:LYS:HG2	46:C5:29:GLU:HG2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:62:GLU:H	46:C5:62:GLU:HG3	1.63	0.40
49:F5:5:CYS:O	49:F5:9:GLY:HA2	2.21	0.40
50:G5:47:ASN:N	50:G5:47:ASN:ND2	2.68	0.40
1:13:143:A:H5"	1:13:144:G:O5'	2.21	0.40
1:13:605:U:C2	1:13:606:G:H8	2.40	0.40
1:13:719:C:O5'	1:13:719:C:H6	2.05	0.40
1:13:926:G:N2	25:4K:15:A:OP2	2.51	0.40
1:13:928:G:H2'	1:13:929:G:C8	2.57	0.40
1:13:1026:G:H1	1:13:1035:A:H61	1.67	0.40
1:13:1074:G:C4'	2:1E:104:ASN:HB2	2.52	0.40
1:13:1151:A:O2'	1:13:1152:A:O4'	2.39	0.40
3:2E:193:TYR:HE1	3:2E:196:LEU:HD21	1.87	0.40
4:3E:176:LEU:HA	4:3E:176:LEU:HD12	1.86	0.40
5:4E:148:VAL:HG21	8:7E:107:LEU:HD22	2.04	0.40
8:7E:2:LEU:HD23	8:7E:2:LEU:HA	1.68	0.40
11:2I:50:TYR:HD2	11:2I:54:ARG:HB3	1.85	0.40
12:3I:90:VAL:HG12	12:3I:91:LYS:N	2.34	0.40
16:7I:57:ARG:HH21	16:7I:79:VAL:C	2.29	0.40
22:1K:19:G:H1'	22:1K:61:U:N3	2.37	0.40
26:1H:330:A:H2	26:1H:1210:A:O2'	2.05	0.40
26:1H:391:G:N3	26:1H:391:G:H2'	2.37	0.40
26:1H:688:U:H6	26:1H:688:U:O5'	2.04	0.40
26:1H:846:C:C2	26:1H:847:U:C5	3.09	0.40
26:1H:919:G:C6	26:1H:920:G:C5	3.09	0.40
26:1H:1163:G:C2	26:1H:1164:G:C8	3.09	0.40
26:1H:1574:C:O5'	26:1H:1574:C:H6	2.04	0.40
26:1H:1815:A:O4'	26:1H:1817:G:C8	2.75	0.40
26:1H:1842:G:H2'	26:1H:1843:C:C6	2.56	0.40
26:1H:2053:G:N2	26:1H:2054:A:C4	2.90	0.40
26:1H:2287:A:C2	26:1H:2346:A:C2	3.09	0.40
26:1H:2319:G:H4'	26:1H:2320:A:OP1	2.21	0.40
26:1H:2335:A:C8	26:1H:2337:G:C6	3.10	0.40
26:1H:2552:U:C2	26:1H:2554:U:H5"	2.57	0.40
26:1H:2801:A:OP2	26:1H:2895:U:H1'	2.22	0.40
26:1H:2838:G:C6	26:1H:2839:G:C5	3.10	0.40
26:1H:2885:C:H2'	26:1H:2886:G:O4'	2.21	0.40
26:1H:2886:G:N3	26:1H:2886:G:H2'	2.37	0.40
31:31:81:PRO:HB3	31:31:89:VAL:HG22	2.04	0.40
32:41:37:VAL:H	32:41:99:MET:HE3	1.87	0.40
34:61:93:THR:O	34:61:97:ILE:HG12	2.22	0.40
35:58:78:TYR:N	35:58:78:TYR:CD1	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:144:GLU:HA	37:78:145:PRO:HD3	1.93	0.40
37:78:147:LEU:HD12	37:78:147:LEU:HA	1.97	0.40
46:G8:21:LYS:HE3	46:G8:21:LYS:HB3	1.69	0.40
47:H8:137:ILE:HG22	47:H8:138:GLU:N	2.36	0.40
55:Q8:48:PHE:HE2	55:Q8:52:LYS:HB2	1.87	0.40
1:1G:28:G:C6	1:1G:29:G:C5	3.10	0.40
1:1G:142:G:O5'	1:1G:142:G:H8	2.04	0.40
1:1G:565:U:H3'	1:1G:566:G:H2'	2.03	0.40
1:1G:574:A:O2'	1:1G:882:C:O2'	2.23	0.40
1:1G:674:G:P	6:52:87:ARG:HH22	2.44	0.40
1:1G:811:C:C5	1:1G:812:C:C4	3.10	0.40
1:1G:950:U:C5	13:4A:102:ARG:NH1	2.90	0.40
1:1G:954:G:H3'	1:1G:955:U:C6	2.57	0.40
1:1G:1035:A:H3'	1:1G:1036:G:H5"	2.03	0.40
1:1G:1056:U:O4	1:1G:1200:C:C6	2.74	0.40
1:1G:1123:A:H5"	10:1A:37:PRO:HD2	2.04	0.40
1:1G:1218:C:H2'	1:1G:1219:U:C6	2.56	0.40
1:1G:1223:C:OP2	1:1G:1224:G:H2'	2.22	0.40
1:1G:1333:A:H2'	1:1G:1334:G:O4'	2.21	0.40
2:12:131:PRO:O	2:12:135:GLN:N	2.55	0.40
3:22:18:TRP:HE3	3:22:18:TRP:N	2.19	0.40
5:42:84:PHE:N	5:42:87:SER:O	2.46	0.40
7:62:65:ALA:CB	7:62:124:LEU:HD23	2.52	0.40
8:72:100:ILE:HA	8:72:101:PRO:HD3	1.91	0.40
8:72:114:THR:CG2	8:72:119:LEU:HG	2.50	0.40
15:6A:31:LEU:HA	15:6A:31:LEU:HD12	1.78	0.40
24:3L:8:4SU:H5"	24:3L:49:C:C5'	2.50	0.40
26:14:94:G:H2'	26:14:95:G:O4'	2.21	0.40
26:14:162:U:H5'	26:14:171:G:O4'	2.22	0.40
26:14:184:C:H2'	26:14:185:U:C6	2.56	0.40
26:14:219:G:H2'	26:14:220:G:O4'	2.20	0.40
26:14:389:G:N1	37:35:70:GLN:HB3	2.36	0.40
26:14:668:G:H2'	26:14:670:A:H62	1.87	0.40
26:14:807:U:C2	26:14:808:G:C8	3.09	0.40
26:14:907:U:O5'	38:45:24:GLY:HA2	2.21	0.40
26:14:937:U:H2'	26:14:938:G:O4'	2.22	0.40
26:14:977:G:C6	26:14:987:G:C6	3.10	0.40
26:14:993:G:OP1	42:85:50:ARG:NH2	2.55	0.40
26:14:1416:G:H1	26:14:1582:C:N4	2.09	0.40
26:14:1612:C:N4	26:14:1619:G:H1	2.19	0.40
26:14:1895:C:C2	26:14:1896:G:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2027:G:C5	26:14:2028:U:C5	3.10	0.40
26:14:2282:G:H5'	26:14:2389:G:H1'	2.03	0.40
26:14:2343:C:O2'	26:14:2373:G:H4'	2.22	0.40
26:14:2582:G:C2	26:14:2583:G:C8	3.09	0.40
26:14:2845:G:H5"	41:75:55:ASN:HA	2.02	0.40
27:1J:8:U:H3	27:1J:112:G:H1	1.68	0.40
29:19:266:SER:O	29:19:269:PHE:HB2	2.21	0.40
30:29:97:LYS:N	30:29:97:LYS:HD2	2.37	0.40
33:59:81:GLU:HG3	33:59:83:TYR:N	2.29	0.40
35:15:4:TYR:CD2	42:85:100:VAL:HG11	2.57	0.40
36:25:86:ILE:H	36:25:86:ILE:HG12	1.60	0.40
41:75:107:ASP:OD1	41:75:107:ASP:N	2.54	0.40
43:95:60:GLU:HB3	43:95:95:LEU:HB3	2.04	0.40
44:A5:62:HIS:HB2	44:A5:64:MET:HG3	2.03	0.40
49:F5:92:LYS:HB3	49:F5:93:GLU:H	1.77	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)
26:1H:654(H):G:O2'	51:H5:55:ARG:NH2[2_464]	2.11	0.09
26:1H:277:C:O2'	50:G5:49:LYS:NZ[2_564]	2.16	0.04

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

There are no protein backbone outliers to report in this entry.

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%)	152 (74%)	53 (26%)	0 2
2	1E	205/220 (93%)	153 (75%)	52 (25%)	0 3
3	22	160/188 (85%)	122 (76%)	38 (24%)	1 4
3	2E	159/188 (85%)	124 (78%)	35 (22%)	1 5
4	32	180/181 (99%)	142 (79%)	38 (21%)	1 5
4	3E	180/181 (99%)	148 (82%)	32 (18%)	2 8
5	42	116/123 (94%)	76 (66%)	40 (34%)	0 1
5	4E	116/123 (94%)	78 (67%)	38 (33%)	0 1
6	52	90/90 (100%)	72 (80%)	18 (20%)	1 6
6	5E	90/90 (100%)	70 (78%)	20 (22%)	1 5
7	62	121/127 (95%)	93 (77%)	28 (23%)	1 4
7	6E	126/127 (99%)	99 (79%)	27 (21%)	1 5
8	72	119/119 (100%)	89 (75%)	30 (25%)	0 3
8	7E	119/119 (100%)	91 (76%)	28 (24%)	1 4
9	82	98/99 (99%)	82 (84%)	16 (16%)	2 11
9	8E	98/99 (99%)	69 (70%)	29 (30%)	0 1
10	1A	58/92 (63%)	44 (76%)	14 (24%)	1 3
10	1I	89/92 (97%)	65 (73%)	24 (27%)	0 2
11	2A	88/99 (89%)	69 (78%)	19 (22%)	1 5
11	2I	90/99 (91%)	73 (81%)	17 (19%)	1 7
12	3A	103/109 (94%)	75 (73%)	28 (27%)	0 2
12	3I	103/109 (94%)	75 (73%)	28 (27%)	0 2
13	4A	94/101 (93%)	61 (65%)	33 (35%)	0 1
13	4I	94/101 (93%)	69 (73%)	25 (27%)	0 2
14	5A	43/50 (86%)	33 (77%)	10 (23%)	1 4
14	5I	49/50 (98%)	42 (86%)	7 (14%)	3 14
15	6A	79/80 (99%)	61 (77%)	18 (23%)	1 4
15	6I	79/80 (99%)	68 (86%)	11 (14%)	3 15
16	7A	72/74 (97%)	53 (74%)	19 (26%)	0 2
16	7I	72/74 (97%)	57 (79%)	15 (21%)	1 6
17	8A	94/97 (97%)	75 (80%)	19 (20%)	1 6
17	8I	95/97 (98%)	71 (75%)	24 (25%)	0 3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
18	9A	63/77 (82%)	46 (73%)	17 (27%)	0 2
18	9I	63/77 (82%)	49 (78%)	14 (22%)	1 5
19	AA	67/80 (84%)	52 (78%)	15 (22%)	1 5
19	AI	70/80 (88%)	42 (60%)	28 (40%)	0 0
20	BA	76/82 (93%)	64 (84%)	12 (16%)	2 12
20	BI	76/82 (93%)	54 (71%)	22 (29%)	0 2
21	1B	17/22 (77%)	16 (94%)	1 (6%)	18 46
21	1F	20/22 (91%)	19 (95%)	1 (5%)	22 50
28	71	77/181 (42%)	56 (73%)	21 (27%)	0 2
29	11	214/218 (98%)	159 (74%)	55 (26%)	0 2
29	19	214/218 (98%)	151 (71%)	63 (29%)	0 2
30	21	165/166 (99%)	121 (73%)	44 (27%)	0 2
30	29	165/166 (99%)	125 (76%)	40 (24%)	1 3
31	31	161/166 (97%)	115 (71%)	46 (29%)	0 2
31	39	163/166 (98%)	119 (73%)	44 (27%)	0 2
32	41	155/156 (99%)	111 (72%)	44 (28%)	0 2
32	49	155/156 (99%)	111 (72%)	44 (28%)	0 2
33	51	145/148 (98%)	105 (72%)	40 (28%)	0 2
33	59	142/148 (96%)	104 (73%)	38 (27%)	0 2
34	61	122/124 (98%)	86 (70%)	36 (30%)	0 2
34	69	122/124 (98%)	82 (67%)	40 (33%)	0 1
35	15	117/119 (98%)	91 (78%)	26 (22%)	1 5
35	58	117/119 (98%)	85 (73%)	32 (27%)	0 2
36	25	100/100 (100%)	67 (67%)	33 (33%)	0 1
36	68	100/100 (100%)	74 (74%)	26 (26%)	0 2
37	35	114/116 (98%)	67 (59%)	47 (41%)	0 0
37	78	116/116 (100%)	74 (64%)	42 (36%)	0 1
38	45	111/111 (100%)	82 (74%)	29 (26%)	0 2
38	88	103/111 (93%)	72 (70%)	31 (30%)	0 1
39	55	100/101 (99%)	71 (71%)	29 (29%)	0 2
39	98	101/101 (100%)	74 (73%)	27 (27%)	0 2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
40	65	87/88 (99%)	67 (77%)	20 (23%)	1 4
40	A8	87/88 (99%)	58 (67%)	29 (33%)	0 1
41	75	120/127 (94%)	81 (68%)	39 (32%)	0 1
41	B8	120/127 (94%)	82 (68%)	38 (32%)	0 1
42	85	93/94 (99%)	69 (74%)	24 (26%)	0 2
42	C8	93/94 (99%)	74 (80%)	19 (20%)	1 6
43	95	82/82 (100%)	52 (63%)	30 (37%)	0 1
43	D8	82/82 (100%)	58 (71%)	24 (29%)	0 2
44	A5	91/92 (99%)	61 (67%)	30 (33%)	0 1
44	E8	92/92 (100%)	64 (70%)	28 (30%)	0 1
45	B5	74/78 (95%)	52 (70%)	22 (30%)	0 1
45	F8	76/78 (97%)	50 (66%)	26 (34%)	0 1
46	C5	85/91 (93%)	60 (71%)	25 (29%)	0 2
46	G8	85/91 (93%)	55 (65%)	30 (35%)	0 1
47	D5	126/179 (70%)	94 (75%)	32 (25%)	0 3
47	H8	124/179 (69%)	93 (75%)	31 (25%)	0 3
48	E5	62/67 (92%)	45 (73%)	17 (27%)	0 2
48	I8	61/67 (91%)	41 (67%)	20 (33%)	0 1
49	F5	79/83 (95%)	52 (66%)	27 (34%)	0 1
49	J8	82/83 (99%)	57 (70%)	25 (30%)	0 1
50	G5	62/67 (92%)	40 (64%)	22 (36%)	0 1
50	K8	62/67 (92%)	42 (68%)	20 (32%)	0 1
51	H5	51/52 (98%)	36 (71%)	15 (29%)	0 2
51	L8	49/52 (94%)	31 (63%)	18 (37%)	0 1
52	I5	57/63 (90%)	42 (74%)	15 (26%)	0 2
52	M8	59/63 (94%)	41 (70%)	18 (30%)	0 1
53	J5	48/52 (92%)	35 (73%)	13 (27%)	0 2
53	N8	47/52 (90%)	34 (72%)	13 (28%)	0 2
54	L5	39/42 (93%)	27 (69%)	12 (31%)	0 1
54	P8	40/42 (95%)	32 (80%)	8 (20%)	1 6
55	M5	49/55 (89%)	33 (67%)	16 (33%)	0 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
55	Q8	50/55 (91%)	31 (62%)	19 (38%)	0 0
All	All	9429/10075 (94%)	6884 (73%)	2545 (27%)	0 2

All (2545) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	1E	5	ILE
2	1E	8	LYS
2	1E	15	VAL
2	1E	16	HIS
2	1E	17	PHE
2	1E	20	GLU
2	1E	23	ARG
2	1E	28	PHE
2	1E	32	ILE
2	1E	44	LEU
2	1E	53	ARG
2	1E	67	THR
2	1E	71	VAL
2	1E	74	LYS
2	1E	93	VAL
2	1E	94	ASN
2	1E	96	ARG
2	1E	102	LEU
2	1E	108	ILE
2	1E	109	SER
2	1E	111	ARG
2	1E	121	LEU
2	1E	129	GLU
2	1E	136	VAL
2	1E	142	LEU
2	1E	145	LEU
2	1E	146	GLN
2	1E	150	SER
2	1E	153	ARG
2	1E	156	LYS
2	1E	160	ASP
2	1E	162	ILE
2	1E	164	VAL
2	1E	168	THR
2	1E	170	GLU
2	1E	172	ILE

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Mol	Chain	Res	Type
2	1E	178	ARG
2	1E	184	VAL
2	1E	190	THR
2	1E	193	ASP
2	1E	195	ASP
2	1E	196	LEU
2	1E	197	VAL
2	1E	209	ARG
2	1E	210	SER
2	1E	213	LEU
2	1E	214	ILE
2	1E	217	ARG
2	1E	226	ARG
2	1E	229	VAL
2	1E	231	GLU
2	1E	233	SER
3	2E	3	ASN
3	2E	5	ILE
3	2E	14	ILE
3	2E	21	ARG
3	2E	27	LYS
3	2E	31	HIS
3	2E	32	LEU
3	2E	33	LEU
3	2E	34	LEU
3	2E	36	ASP
3	2E	42	LEU
3	2E	45	LYS
3	2E	49	SER
3	2E	58	GLU
3	2E	63	ASN
3	2E	64	VAL
3	2E	76	VAL
3	2E	91	LEU
3	2E	93	LYS
3	2E	94	LEU
3	2E	98	ASN
3	2E	120	VAL
3	2E	151	VAL
3	2E	161	GLU
3	2E	164	ARG
3	2E	167	TRP

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Mol	Chain	Res	Type
3	2E	172	ARG
3	2E	175	LEU
3	2E	177	THR
3	2E	178	LEU
3	2E	179	ARG
3	2E	190	ARG
3	2E	192	THR
3	2E	196	LEU
3	2E	202	ILE
4	3E	3	ARG
4	3E	10	ARG
4	3E	21	LEU
4	3E	22	LYS
4	3E	24	GLU
4	3E	26	CYS
4	3E	31	CYS
4	3E	50	ARG
4	3E	58	LEU
4	3E	70	ILE
4	3E	71	SER
4	3E	85	LYS
4	3E	86	LYS
4	3E	88	VAL
4	3E	96	LEU
4	3E	98	GLU
4	3E	105	VAL
4	3E	120	LEU
4	3E	122	ARG
4	3E	127	THR
4	3E	135	LEU
4	3E	141	ARG
4	3E	146	ILE
4	3E	150	GLU
4	3E	152	SER
4	3E	153	ARG
4	3E	154	ASN
4	3E	155	LEU
4	3E	168	ARG
4	3E	179	GLU
4	3E	193	ASP
4	3E	209	ARG
5	4E	6	PHE

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Mol	Chain	Res	Type
5	4E	10	MET
5	4E	13	ILE
5	4E	14	ARG
5	4E	16	THR
5	4E	18	ARG
5	4E	20	GLN
5	4E	26	PHE
5	4E	31	LEU
5	4E	41	VAL
5	4E	47	LYS
5	4E	50	GLU
5	4E	51	VAL
5	4E	53	LEU
5	4E	68	GLU
5	4E	71	LEU
5	4E	72	GLN
5	4E	73	ASN
5	4E	75	THR
5	4E	79	GLU
5	4E	87	SER
5	4E	91	LEU
5	4E	92	LYS
5	4E	98	THR
5	4E	101	ILE
5	4E	109	ILE
5	4E	112	LEU
5	4E	117	ASP
5	4E	120	THR
5	4E	121	LYS
5	4E	122	GLU
5	4E	131	ILE
5	4E	133	TYR
5	4E	135	THR
5	4E	140	ARG
5	4E	147	ASP
5	4E	153	LYS
5	4E	155	GLU
6	5E	8	ILE
6	5E	23	LYS
6	5E	25	ILE
6	5E	37	VAL
6	5E	39	LYS

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Mol	Chain	Res	Type
6	5E	40	VAL
6	5E	41	GLU
6	5E	47	ARG
6	5E	55	ASP
6	5E	65	VAL
6	5E	69	GLU
6	5E	70	ASP
6	5E	75	LEU
6	5E	77	ARG
6	5E	78	GLU
6	5E	81	ILE
6	5E	82	ARG
6	5E	89	MET
6	5E	92	LYS
6	5E	98	LEU
7	6E	9	VAL
7	6E	12	LEU
7	6E	13	GLN
7	6E	22	LEU
7	6E	23	VAL
7	6E	24	THR
7	6E	30	ILE
7	6E	36	LYS
7	6E	38	LEU
7	6E	47	CYS
7	6E	48	LYS
7	6E	54	THR
7	6E	57	GLU
7	6E	66	VAL
7	6E	72	ARG
7	6E	79	ARG
7	6E	80	VAL
7	6E	90	GLU
7	6E	104	LEU
7	6E	110	GLN
7	6E	111	ARG
7	6E	113	GLU
7	6E	135	VAL
7	6E	137	LYS
7	6E	141	VAL
7	6E	146	GLU
7	6E	156	TRP

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Mol	Chain	Res	Type
8	7E	1	MET
8	7E	10	LEU
8	7E	19	VAL
8	7E	24	THR
8	7E	26	VAL
8	7E	30	ARG
8	7E	32	LYS
8	7E	35	ILE
8	7E	36	LEU
8	7E	45	ILE
8	7E	48	TYR
8	7E	54	ASP
8	7E	68	ARG
8	7E	77	GLU
8	7E	79	VAL
8	7E	80	ILE
8	7E	82	HIS
8	7E	83	ILE
8	7E	85	ARG
8	7E	95	VAL
8	7E	97	VAL
8	7E	102	ARG
8	7E	104	ARG
8	7E	107	LEU
8	7E	112	LEU
8	7E	129	VAL
8	7E	135	CYS
8	7E	137	VAL
9	8E	9	ARG
9	8E	10	ARG
9	8E	14	VAL
9	8E	17	VAL
9	8E	20	ARG
9	8E	26	VAL
9	8E	31	GLN
9	8E	38	GLN
9	8E	40	LEU
9	8E	42	ARG
9	8E	44	VAL
9	8E	47	LEU
9	8E	53	VAL
9	8E	64	THR

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Mol	Chain	Res	Type
9	8E	79	LEU
9	8E	86	VAL
9	8E	92	TYR
9	8E	93	ARG
9	8E	95	LYS
9	8E	96	LEU
9	8E	103	THR
9	8E	104	ARG
9	8E	108	VAL
9	8E	111	ARG
9	8E	112	LYS
9	8E	118	LYS
9	8E	120	ARG
9	8E	121	ARG
9	8E	128	ARG
10	1I	4	ILE
10	1I	5	ARG
10	1I	13	HIS
10	1I	16	LEU
10	1I	43	ARG
10	1I	45	ARG
10	1I	49	VAL
10	1I	62	HIS
10	1I	63	PHE
10	1I	66	ARG
10	1I	68	HIS
10	1I	69	ASN
10	1I	70	ARG
10	1I	72	VAL
10	1I	74	ILE
10	1I	75	ILE
10	1I	76	ASN
10	1I	82	ILE
10	1I	88	LEU
10	1I	89	ASP
10	1I	92	THR
10	1I	94	VAL
10	1I	96	ILE
10	1I	100	THR
11	2I	14	VAL
11	2I	16	SER
11	2I	30	VAL

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Mol	Chain	Res	Type
11	2I	32	ILE
11	2I	40	ILE
11	2I	44	SER
11	2I	48	ILE
11	2I	80	VAL
11	2I	87	THR
11	2I	93	GLN
11	2I	96	ARG
11	2I	103	LEU
11	2I	105	VAL
11	2I	106	LYS
11	2I	108	ILE
11	2I	109	VAL
11	2I	114	VAL
12	3I	7	ILE
12	3I	11	VAL
12	3I	18	VAL
12	3I	19	ARG
12	3I	20	LYS
12	3I	34	ARG
12	3I	41	ARG
12	3I	47	LYS
12	3I	60	LEU
12	3I	64	TYR
12	3I	65	GLU
12	3I	67	THR
12	3I	70	ILE
12	3I	79	GLU
12	3I	81	SER
12	3I	82	VAL
12	3I	89	ARG
12	3I	90	VAL
12	3I	91	LYS
12	3I	96	VAL
12	3I	100	ILE
12	3I	104	VAL
12	3I	113	ARG
12	3I	114	LYS
12	3I	117	ARG
12	3I	122	THR
12	3I	124	LYS
12	3I	126	LYS

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Mol	Chain	Res	Type
13	4I	3	ARG
13	4I	7	VAL
13	4I	13	LYS
13	4I	14	ARG
13	4I	19	LEU
13	4I	20	THR
13	4I	22	ILE
13	4I	35	GLU
13	4I	43	THR
13	4I	45	VAL
13	4I	46	LYS
13	4I	48	LEU
13	4I	52	GLU
13	4I	56	LEU
13	4I	58	GLU
13	4I	64	TRP
13	4I	74	VAL
13	4I	88	ARG
13	4I	96	LEU
13	4I	99	ARG
13	4I	103	THR
13	4I	105	THR
13	4I	106	ASN
13	4I	108	ARG
13	4I	117	VAL
14	5I	11	LYS
14	5I	17	LYS
14	5I	25	VAL
14	5I	26	ARG
14	5I	33	VAL
14	5I	35	ARG
14	5I	57	ARG
15	6I	4	THR
15	6I	6	GLU
15	6I	27	VAL
15	6I	31	LEU
15	6I	34	LEU
15	6I	39	LEU
15	6I	41	GLU
15	6I	45	VAL
15	6I	54	ARG
15	6I	59	MET

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Mol	Chain	Res	Type
15	6I	66	LEU
16	7I	2	VAL
16	7I	11	SER
16	7I	13	HIS
16	7I	14	ASN
16	7I	19	ILE
16	7I	33	ILE
16	7I	36	ILE
16	7I	44	THR
16	7I	45	THR
16	7I	50	LYS
16	7I	67	THR
16	7I	69	THR
16	7I	72	ARG
16	7I	82	GLN
16	7I	83	GLU
17	8I	9	VAL
17	8I	10	VAL
17	8I	11	VAL
17	8I	19	VAL
17	8I	20	THR
17	8I	35	VAL
17	8I	37	LYS
17	8I	38	ARG
17	8I	39	SER
17	8I	48	GLU
17	8I	52	LYS
17	8I	60	ILE
17	8I	62	SER
17	8I	68	ARG
17	8I	74	LEU
17	8I	76	LEU
17	8I	79	SER
17	8I	85	VAL
17	8I	89	LEU
17	8I	92	ARG
17	8I	96	GLU
17	8I	97	SER
17	8I	100	LYS
17	8I	101	ARG
18	9I	21	LYS
18	9I	23	LYS

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Mol	Chain	Res	Type
18	9I	32	ARG
18	9I	35	ARG
18	9I	36	ASN
18	9I	39	VAL
18	9I	45	SER
18	9I	53	ARG
18	9I	75	ILE
18	9I	76	LEU
18	9I	82	THR
18	9I	86	VAL
18	9I	87	ARG
18	9I	88	LYS
19	AI	5	LEU
19	AI	6	LYS
19	AI	7	LYS
19	AI	11	VAL
19	AI	12	ASP
19	AI	22	LEU
19	AI	25	LYS
19	AI	28	LYS
19	AI	29	ARG
19	AI	30	LEU
19	AI	31	ILE
19	AI	33	THR
19	AI	36	ARG
19	AI	37	ARG
19	AI	41	VAL
19	AI	43	GLU
19	AI	44	MET
19	AI	51	VAL
19	AI	53	ASN
19	AI	58	VAL
19	AI	60	VAL
19	AI	61	TYR
19	AI	65	ASN
19	AI	67	VAL
19	AI	71	LEU
19	AI	77	THR
19	AI	78	ARG
19	AI	79	THR
20	BI	9	ASN
20	BI	10	LEU

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Mol	Chain	Res	Type
20	BI	15	ARG
20	BI	23	ARG
20	BI	24	LEU
20	BI	36	LEU
20	BI	37	SER
20	BI	41	ILE
20	BI	42	GLN
20	BI	51	GLU
20	BI	53	LEU
20	BI	54	LYS
20	BI	55	ILE
20	BI	62	LEU
20	BI	63	ILE
20	BI	68	LYS
20	BI	73	HIS
20	BI	75	ASN
20	BI	93	GLU
20	BI	99	LEU
20	BI	100	ILE
20	BI	105	SER
21	1F	6	ARG
28	71	8	ARG
28	71	11	LEU
28	71	17	ASN
28	71	18	LYS
28	71	47	LEU
28	71	49	ILE
28	71	53	ARG
28	71	55	ASP
28	71	56	GLN
28	71	57	ASN
28	71	61	THR
28	71	167	LYS
28	71	171	ILE
28	71	183	GLU
28	71	184	LYS
28	71	193	ILE
28	71	196	LEU
28	71	199	HIS
28	71	208	PHE
28	71	223	ARG
28	71	227	HIS

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Mol	Chain	Res	Type
29	11	3	VAL
29	11	13	ARG
29	11	14	ARG
29	11	17	THR
29	11	20	ASP
29	11	25	THR
29	11	34	VAL
29	11	46	GLN
29	11	58	HIS
29	11	59	LYS
29	11	61	LEU
29	11	64	ILE
29	11	65	ILE
29	11	68	LYS
29	11	73	VAL
29	11	82	ILE
29	11	89	SER
29	11	94	LEU
29	11	95	LEU
29	11	103	ARG
29	11	105	ILE
29	11	106	ILE
29	11	111	LEU
29	11	113	VAL
29	11	116	GLN
29	11	125	ILE
29	11	127	VAL
29	11	131	LEU
29	11	134	ARG
29	11	136	ILE
29	11	138	VAL
29	11	141	VAL
29	11	142	VAL
29	11	147	LEU
29	11	155	LEU
29	11	162	SER
29	11	165	ILE
29	11	171	ASP
29	11	173	VAL
29	11	181	GLU
29	11	185	VAL
29	11	192	THR

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Mol	Chain	Res	Type
29	11	193	VAL
29	11	204	ILE
29	11	208	LYS
29	11	215	LEU
29	11	218	ARG
29	11	221	VAL
29	11	222	ARG
29	11	229	VAL
29	11	242	ARG
29	11	257	LEU
29	11	260	ARG
29	11	261	LYS
29	11	271	ILE
30	21	5	LEU
30	21	13	ARG
30	21	14	ILE
30	21	26	ILE
30	21	33	VAL
30	21	34	VAL
30	21	40	GLU
30	21	41	LYS
30	21	47	VAL
30	21	49	LEU
30	21	54	GLN
30	21	59	VAL
30	21	66	HIS
30	21	67	PHE
30	21	69	LYS
30	21	72	VAL
30	21	73	GLU
30	21	75	VAL
30	21	78	LEU
30	21	82	ARG
30	21	87	GLU
30	21	89	ASP
30	21	92	THR
30	21	95	ILE
30	21	116	VAL
30	21	118	LYS
30	21	119	ARG
30	21	138	PRO
30	21	140	SER

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Mol	Chain	Res	Type
30	21	141	ILE
30	21	144	ARG
30	21	146	THR
30	21	155	LYS
30	21	156	MET
30	21	165	VAL
30	21	167	VAL
30	21	174	ASP
30	21	175	VAL
30	21	179	GLU
30	21	196	VAL
30	21	198	VAL
30	21	201	THR
30	21	202	LYS
30	21	203	LYS
31	31	8	GLN
31	31	9	ILE
31	31	15	SER
31	31	18	ARG
31	31	24	LEU
31	31	28	ILE
31	31	33	LEU
31	31	36	VAL
31	31	37	VAL
31	31	52	LYS
31	31	53	THR
31	31	56	GLU
31	31	57	VAL
31	31	67	GLN
31	31	68	LYS
31	31	70	THR
31	31	72	ARG
31	31	78	ILE
31	31	82	ILE
31	31	88	VAL
31	31	89	VAL
31	31	101	LEU
31	31	107	LYS
31	31	108	LYS
31	31	145	GLU
31	31	149	ASP
31	31	151	SER

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Mol	Chain	Res	Type
31	31	152	GLU
31	31	156	LEU
31	31	158	THR
31	31	161	GLU
31	31	162	LEU
31	31	164	ARG
31	31	165	ARG
31	31	170	LEU
31	31	174	VAL
31	31	176	LEU
31	31	181	LEU
31	31	183	VAL
31	31	186	ILE
31	31	189	THR
31	31	191	ARG
31	31	192	LEU
31	31	194	MET
31	31	201	VAL
31	31	204	ASN
32	41	10	LYS
32	41	20	ILE
32	41	21	ARG
32	41	22	ARG
32	41	26	GLN
32	41	28	VAL
32	41	31	VAL
32	41	32	PRO
32	41	34	LEU
32	41	39	ILE
32	41	43	LEU
32	41	45	GLU
32	41	48	GLU
32	41	52	ILE
32	41	58	GLN
32	41	63	ILE
32	41	64	THR
32	41	67	LYS
32	41	70	VAL
32	41	76	SER
32	41	77	ILE
32	41	79	ASN
32	41	80	PHE

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Mol	Chain	Res	Type
32	41	82	LEU
32	41	86	MET
32	41	90	LEU
32	41	94	LEU
32	41	98	ARG
32	41	101	ILE
32	41	108	ASN
32	41	111	LEU
32	41	116	ASP
32	41	118	ARG
32	41	133	LEU
32	41	139	LEU
32	41	145	THR
32	41	150	ASP
32	41	160	VAL
32	41	161	THR
32	41	162	THR
32	41	165	THR
32	41	168	GLU
32	41	173	LEU
32	41	174	GLU
33	51	3	ARG
33	51	4	ILE
33	51	6	ARG
33	51	7	LEU
33	51	10	PRO
33	51	24	VAL
33	51	26	VAL
33	51	27	LYS
33	51	40	GLU
33	51	41	MET
33	51	43	VAL
33	51	45	VAL
33	51	50	VAL
33	51	64	LEU
33	51	68	THR
33	51	71	LEU
33	51	72	ILE
33	51	77	LYS
33	51	80	SER
33	51	81	GLU
33	51	88	LEU

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Mol	Chain	Res	Type
33	51	92	ILE
33	51	94	TYR
33	51	97	ARG
33	51	98	LEU
33	51	114	VAL
33	51	116	GLU
33	51	121	ILE
33	51	122	THR
33	51	129	THR
33	51	130	ARG
33	51	136	ILE
33	51	139	GLN
33	51	140	LYS
33	51	141	VAL
33	51	151	ILE
33	51	153	LYS
33	51	158	HIS
33	51	170	ARG
33	51	175	LYS
34	61	4	ILE
34	61	5	LEU
34	61	9	LEU
34	61	12	LEU
34	61	14	ASP
34	61	20	ASP
34	61	23	PRO
34	61	37	VAL
34	61	38	LEU
34	61	41	GLU
34	61	44	LEU
34	61	51	ILE
34	61	64	GLU
34	61	71	ILE
34	61	73	GLU
34	61	74	ASN
34	61	78	THR
34	61	79	ILE
34	61	82	ARG
34	61	85	GLU
34	61	86	THR
34	61	92	VAL
34	61	93	THR

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Mol	Chain	Res	Type
34	61	95	LYS
34	61	110	ASP
34	61	112	LYS
34	61	114	LEU
34	61	116	LEU
34	61	117	GLU
34	61	122	GLU
34	61	131	LYS
34	61	135	GLU
34	61	136	VAL
34	61	140	LEU
34	61	142	VAL
34	61	145	VAL
35	58	2	LYS
35	58	5	VAL
35	58	7	LYS
35	58	9	VAL
35	58	12	ARG
35	58	14	VAL
35	58	28	THR
35	58	29	LYS
35	58	34	LEU
35	58	38	HIS
35	58	39	ARG
35	58	43	THR
35	58	45	ASN
35	58	55	VAL
35	58	58	ASP
35	58	60	ILE
35	58	61	ARG
35	58	65	LYS
35	58	67	LEU
35	58	71	ILE
35	58	87	LEU
35	58	90	MET
35	58	98	VAL
35	58	99	LEU
35	58	104	LYS
35	58	114	ARG
35	58	118	LYS
35	58	120	LEU
35	58	127	ASP

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Mol	Chain	Res	Type
35	58	130	HIS
35	58	131	GLN
35	58	133	GLN
36	68	1	MET
36	68	3	GLN
36	68	17	ARG
36	68	19	ILE
36	68	23	ARG
36	68	24	VAL
36	68	25	LEU
36	68	32	TYR
36	68	34	THR
36	68	38	VAL
36	68	39	ILE
36	68	47	ILE
36	68	52	VAL
36	68	53	LYS
36	68	61	VAL
36	68	65	THR
36	68	68	GLU
36	68	80	ASP
36	68	86	ILE
36	68	88	ASN
36	68	92	GLU
36	68	94	ARG
36	68	96	THR
36	68	98	VAL
36	68	113	LYS
36	68	117	LEU
37	78	6	LEU
37	78	7	ARG
37	78	10	PRO
37	78	15	ARG
37	78	18	ARG
37	78	19	VAL
37	78	30	THR
37	78	32	THR
37	78	33	ARG
37	78	41	ARG
37	78	45	LEU
37	78	46	LYS
37	78	49	ARG

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Mol	Chain	Res	Type
37	78	50	ARG
37	78	52	GLU
37	78	56	SER
37	78	57	THR
37	78	67	MET
37	78	71	VAL
37	78	75	ILE
37	78	81	GLN
37	78	83	VAL
37	78	88	LEU
37	78	90	ARG
37	78	96	THR
37	78	99	LEU
37	78	100	LEU
37	78	101	VAL
37	78	105	LEU
37	78	106	LEU
37	78	112	LEU
37	78	114	ILE
37	78	117	GLU
37	78	119	GLU
37	78	121	LYS
37	78	126	VAL
37	78	138	LEU
37	78	144	GLU
37	78	146	VAL
37	78	147	LEU
37	78	148	LEU
37	78	149	GLU
38	88	1	MET
38	88	2	LEU
38	88	5	ARG
38	88	6	ARG
38	88	7	MET
38	88	11	LYS
38	88	18	LYS
38	88	25	ASP
38	88	26	TYR
38	88	27	VAL
38	88	35	VAL
38	88	45	GLN
38	88	51	ARG

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Mol	Chain	Res	Type
38	88	55	VAL
38	88	56	ARG
38	88	59	ARG
38	88	60	ARG
38	88	72	LYS
38	88	82	ARG
38	88	96	VAL
38	88	98	LYS
38	88	102	VAL
38	88	103	MET
38	88	109	VAL
38	88	110	THR
38	88	115	MET
38	88	129	THR
38	88	133	ARG
38	88	134	ARG
38	88	138	ASP
38	88	139	GLU
39	98	2	ARG
39	98	4	LEU
39	98	6	SER
39	98	10	LEU
39	98	18	LEU
39	98	24	GLN
39	98	28	LEU
39	98	29	LEU
39	98	30	THR
39	98	34	ILE
39	98	35	THR
39	98	40	LYS
39	98	44	LEU
39	98	61	HIS
39	98	65	LEU
39	98	67	LEU
39	98	73	VAL
39	98	75	LEU
39	98	76	VAL
39	98	79	LEU
39	98	88	ARG
39	98	91	GLN
39	98	95	THR
39	98	96	ARG

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Mol	Chain	Res	Type
39	98	102	GLU
39	98	114	VAL
39	98	118	GLU
40	A8	8	GLU
40	A8	17	ARG
40	A8	18	ILE
40	A8	19	LYS
40	A8	21	THR
40	A8	26	LEU
40	A8	27	SER
40	A8	30	ARG
40	A8	32	LEU
40	A8	33	LYS
40	A8	35	ILE
40	A8	36	TYR
40	A8	39	ILE
40	A8	40	ILE
40	A8	46	VAL
40	A8	47	THR
40	A8	48	LEU
40	A8	50	SER
40	A8	54	LEU
40	A8	58	LEU
40	A8	69	VAL
40	A8	73	LEU
40	A8	80	LEU
40	A8	83	LYS
40	A8	98	VAL
40	A8	101	LEU
40	A8	106	ARG
40	A8	107	GLU
40	A8	111	GLU
41	B8	7	ILE
41	B8	9	LEU
41	B8	10	VAL
41	B8	13	ARG
41	B8	15	VAL
41	B8	16	ARG
41	B8	17	THR
41	B8	21	GLU
41	B8	27	THR
41	B8	30	VAL

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Mol	Chain	Res	Type
41	B8	35	LYS
41	B8	40	THR
41	B8	41	ARG
41	B8	42	ILE
41	B8	49	VAL
41	B8	50	ILE
41	B8	52	ILE
41	B8	58	ASN
41	B8	59	THR
41	B8	60	THR
41	B8	62	THR
41	B8	65	LYS
41	B8	74	ARG
41	B8	86	ILE
41	B8	88	ILE
41	B8	89	VAL
41	B8	95	ARG
41	B8	98	LYS
41	B8	99	LEU
41	B8	102	ILE
41	B8	105	LEU
41	B8	106	SER
41	B8	111	ARG
41	B8	112	ARG
41	B8	113	LYS
41	B8	115	ARG
41	B8	128	GLU
41	B8	134	GLU
42	C8	17	ILE
42	C8	18	LEU
42	C8	27	LEU
42	C8	31	SER
42	C8	34	LYS
42	C8	47	TYR
42	C8	55	ARG
42	C8	57	PHE
42	C8	64	ARG
42	C8	74	LEU
42	C8	79	PHE
42	C8	85	LYS
42	C8	88	ILE
42	C8	89	GLU

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Mol	Chain	Res	Type
42	C8	98	LEU
42	C8	104	GLN
42	C8	108	GLU
42	C8	109	LEU
42	C8	111	GLU
43	D8	4	ILE
43	D8	5	VAL
43	D8	6	LYS
43	D8	7	THR
43	D8	18	LEU
43	D8	20	LEU
43	D8	22	VAL
43	D8	24	LYS
43	D8	34	GLU
43	D8	35	LEU
43	D8	39	LEU
43	D8	40	LEU
43	D8	44	LYS
43	D8	47	VAL
43	D8	49	THR
43	D8	52	VAL
43	D8	53	GLU
43	D8	70	ILE
43	D8	72	VAL
43	D8	78	LYS
43	D8	81	TYR
43	D8	82	ARG
43	D8	98	GLU
43	D8	99	ILE
44	E8	6	ILE
44	E8	11	ARG
44	E8	12	ILE
44	E8	17	VAL
44	E8	20	VAL
44	E8	24	ILE
44	E8	27	LYS
44	E8	36	LEU
44	E8	39	THR
44	E8	51	LEU
44	E8	52	GLU
44	E8	60	ASN
44	E8	62	HIS

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Mol	Chain	Res	Type
44	E8	65	LEU
44	E8	66	GLU
44	E8	68	ARG
44	E8	69	LEU
44	E8	70	TYR
44	E8	76	VAL
44	E8	92	ARG
44	E8	95	ILE
44	E8	96	ILE
44	E8	97	LYS
44	E8	100	THR
44	E8	103	ILE
44	E8	106	ILE
44	E8	107	LEU
44	E8	109	GLU
45	F8	2	LYS
45	F8	12	VAL
45	F8	15	GLU
45	F8	23	GLU
45	F8	27	THR
45	F8	28	PHE
45	F8	30	VAL
45	F8	35	THR
45	F8	37	THR
45	F8	49	VAL
45	F8	51	VAL
45	F8	53	LYS
45	F8	54	VAL
45	F8	57	LEU
45	F8	60	ARG
45	F8	62	LYS
45	F8	65	ARG
45	F8	66	LEU
45	F8	68	ARG
45	F8	69	TYR
45	F8	70	LEU
45	F8	76	ARG
45	F8	78	LYS
45	F8	81	VAL
45	F8	87	GLN
45	F8	93	GLU
46	G8	4	LYS

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Mol	Chain	Res	Type
46	G8	6	HIS
46	G8	7	VAL
46	G8	21	LYS
46	G8	24	VAL
46	G8	26	LYS
46	G8	27	VAL
46	G8	31	LEU
46	G8	42	VAL
46	G8	43	ASN
46	G8	44	ILE
46	G8	50	ARG
46	G8	54	LYS
46	G8	55	TYR
46	G8	57	GLN
46	G8	61	ILE
46	G8	64	GLU
46	G8	67	LEU
46	G8	71	LYS
46	G8	75	ILE
46	G8	79	CYS
46	G8	82	PRO
46	G8	84	ARG
46	G8	85	VAL
46	G8	86	ARG
46	G8	88	LYS
46	G8	94	LYS
46	G8	98	VAL
46	G8	99	CYS
46	G8	106	LEU
47	H8	11	GLU
47	H8	19	ARG
47	H8	33	LEU
47	H8	37	VAL
47	H8	41	LEU
47	H8	42	VAL
47	H8	53	ILE
47	H8	61	LEU
47	H8	71	VAL
47	H8	76	LEU
47	H8	77	ASP
47	H8	79	ARG
47	H8	80	ARG

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Mol	Chain	Res	Type
47	H8	82	ARG
47	H8	84	GLU
47	H8	86	VAL
47	H8	90	VAL
47	H8	91	LEU
47	H8	92	SER
47	H8	94	GLU
47	H8	96	VAL
47	H8	103	ARG
47	H8	127	LYS
47	H8	128	VAL
47	H8	132	ASN
47	H8	138	GLU
47	H8	153	SER
47	H8	154	ASP
47	H8	158	PRO
47	H8	161	VAL
47	H8	163	LEU
48	I8	10	THR
48	I8	11	ARG
48	I8	23	VAL
48	I8	27	GLU
48	I8	30	VAL
48	I8	31	VAL
48	I8	36	ILE
48	I8	37	LEU
48	I8	38	VAL
48	I8	41	ARG
48	I8	44	ARG
48	I8	49	LYS
48	I8	56	ASP
48	I8	58	THR
48	I8	64	ASP
48	I8	67	VAL
48	I8	68	GLU
48	I8	74	ARG
48	I8	80	HIS
48	I8	81	VAL
49	J8	4	VAL
49	J8	11	ARG
49	J8	14	VAL
49	J8	18	ILE

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Mol	Chain	Res	Type
49	J8	21	ARG
49	J8	25	LYS
49	J8	26	ARG
49	J8	32	LYS
49	J8	41	ARG
49	J8	42	GLN
49	J8	59	THR
49	J8	61	ARG
49	J8	62	VAL
49	J8	65	SER
49	J8	74	VAL
49	J8	78	LYS
49	J8	80	LEU
49	J8	81	LYS
49	J8	82	LEU
49	J8	83	GLU
49	J8	85	LEU
49	J8	90	ILE
49	J8	91	LYS
49	J8	92	LYS
49	J8	94	LEU
50	K8	7	ARG
50	K8	10	LEU
50	K8	16	LEU
50	K8	19	VAL
50	K8	24	LEU
50	K8	30	ARG
50	K8	40	SER
50	K8	41	ILE
50	K8	44	LEU
50	K8	47	ASN
50	K8	48	HIS
50	K8	50	ILE
50	K8	51	ARG
50	K8	53	LEU
50	K8	54	LYS
50	K8	55	ARG
50	K8	57	ILE
50	K8	62	THR
50	K8	64	LEU
50	K8	67	LYS
51	L8	3	ARG

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Mol	Chain	Res	Type
51	L8	4	LEU
51	L8	6	VAL
51	L8	8	LEU
51	L8	11	SER
51	L8	16	PRO
51	L8	17	LYS
51	L8	29	ARG
51	L8	30	ARG
51	L8	31	LEU
51	L8	36	VAL
51	L8	37	LEU
51	L8	38	GLU
51	L8	40	THR
51	L8	48	GLU
51	L8	55	ARG
51	L8	56	VAL
51	L8	57	GLU
52	M8	2	LYS
52	M8	9	LEU
52	M8	10	VAL
52	M8	15	ILE
52	M8	16	CYS
52	M8	20	ASN
52	M8	37	SER
52	M8	38	LYS
52	M8	39	CYS
52	M8	42	PHE
52	M8	48	ARG
52	M8	50	VAL
52	M8	52	THR
52	M8	56	VAL
52	M8	59	PHE
52	M8	61	ARG
52	M8	62	ARG
52	M8	65	ASP
53	N8	6	VAL
53	N8	9	LYS
53	N8	16	ARG
53	N8	19	ARG
53	N8	25	LEU
53	N8	26	THR
53	N8	31	VAL

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Mol	Chain	Res	Type
53	N8	36	CYS
53	N8	40	LYS
53	N8	44	THR
53	N8	49	CYS
53	N8	51	TYR
53	N8	56	LYS
54	P8	1	MET
54	P8	4	THR
54	P8	8	ASN
54	P8	9	ARG
54	P8	23	ARG
54	P8	36	GLN
54	P8	43	THR
54	P8	46	VAL
55	Q8	8	LYS
55	Q8	12	LYS
55	Q8	14	VAL
55	Q8	19	SER
55	Q8	21	LYS
55	Q8	23	VAL
55	Q8	30	ARG
55	Q8	32	LEU
55	Q8	33	ASN
55	Q8	34	TRP
55	Q8	35	GLN
55	Q8	41	ILE
55	Q8	46	ARG
55	Q8	47	LYS
55	Q8	50	LEU
55	Q8	52	LYS
55	Q8	54	GLU
55	Q8	57	ARG
55	Q8	60	LEU
2	12	5	ILE
2	12	17	PHE
2	12	22	LYS
2	12	23	ARG
2	12	31	TYR
2	12	33	TYR
2	12	35	GLU
2	12	42	ILE
2	12	44	LEU

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Mol	Chain	Res	Type
2	12	56	ARG
2	12	69	LEU
2	12	71	VAL
2	12	75	LYS
2	12	76	GLN
2	12	78	GLN
2	12	80	ILE
2	12	82	ARG
2	12	83	MET
2	12	90	MET
2	12	96	ARG
2	12	101	MET
2	12	103	THR
2	12	108	ILE
2	12	111	ARG
2	12	121	LEU
2	12	122	PHE
2	12	134	GLU
2	12	137	ARG
2	12	138	LEU
2	12	145	LEU
2	12	149	LEU
2	12	155	LEU
2	12	158	LEU
2	12	164	VAL
2	12	165	VAL
2	12	170	GLU
2	12	172	ILE
2	12	178	ARG
2	12	182	ILE
2	12	185	ILE
2	12	191	ASP
2	12	200	ILE
2	12	201	ILE
2	12	209	ARG
2	12	210	SER
2	12	212	GLN
2	12	213	LEU
2	12	215	LEU
2	12	219	VAL
2	12	220	ASP
2	12	221	LEU

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Mol	Chain	Res	Type
2	12	223	ILE
2	12	233	SER
3	22	5	ILE
3	22	11	ARG
3	22	17	ASP
3	22	18	TRP
3	22	28	GLN
3	22	32	LEU
3	22	33	LEU
3	22	34	LEU
3	22	42	LEU
3	22	43	LEU
3	22	47	LEU
3	22	56	ASP
3	22	66	VAL
3	22	67	THR
3	22	76	VAL
3	22	79	ARG
3	22	84	ILE
3	22	91	LEU
3	22	94	LEU
3	22	95	THR
3	22	97	LYS
3	22	98	ASN
3	22	102	ASN
3	22	103	VAL
3	22	104	GLN
3	22	116	VAL
3	22	120	VAL
3	22	130	VAL
3	22	140	ARG
3	22	153	VAL
3	22	154	SER
3	22	167	TRP
3	22	175	LEU
3	22	182	ILE
3	22	190	ARG
3	22	191	THR
3	22	198	VAL
3	22	202	ILE
4	32	3	ARG
4	32	5	ILE

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Mol	Chain	Res	Type
4	32	8	VAL
4	32	10	ARG
4	32	14	ARG
4	32	24	GLU
4	32	27	TYR
4	32	28	SER
4	32	30	LYS
4	32	36	ARG
4	32	56	VAL
4	32	58	LEU
4	32	76	ARG
4	32	83	SER
4	32	85	LYS
4	32	94	LEU
4	32	110	PHE
4	32	112	VAL
4	32	120	LEU
4	32	126	ILE
4	32	127	THR
4	32	131	ARG
4	32	132	ARG
4	32	135	LEU
4	32	137	SER
4	32	145	GLU
4	32	148	VAL
4	32	157	LEU
4	32	158	ILE
4	32	160	GLN
4	32	162	LEU
4	32	176	LEU
4	32	177	ASP
4	32	184	LYS
4	32	187	ARG
4	32	191	ARG
4	32	196	LEU
4	32	200	GLU
5	42	10	MET
5	42	13	ILE
5	42	16	THR
5	42	18	ARG
5	42	19	MET
5	42	24	ARG

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Mol	Chain	Res	Type
5	42	25	ARG
5	42	31	LEU
5	42	34	VAL
5	42	40	ARG
5	42	41	VAL
5	42	43	LEU
5	42	45	PHE
5	42	47	LYS
5	42	50	GLU
5	42	51	VAL
5	42	66	MET
5	42	68	GLU
5	42	72	GLN
5	42	73	ASN
5	42	76	ILE
5	42	80	ILE
5	42	82	VAL
5	42	83	GLU
5	42	87	SER
5	42	88	LYS
5	42	90	VAL
5	42	91	LEU
5	42	100	VAL
5	42	101	ILE
5	42	112	LEU
5	42	115	VAL
5	42	116	THR
5	42	125	SER
5	42	126	ARG
5	42	141	GLN
5	42	144	THR
5	42	150	ARG
5	42	152	ARG
5	42	155	GLU
6	52	14	LEU
6	52	15	ASP
6	52	16	GLN
6	52	21	LEU
6	52	23	LYS
6	52	25	ILE
6	52	28	ARG
6	52	37	VAL

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Mol	Chain	Res	Type
6	52	39	LYS
6	52	40	VAL
6	52	46	ARG
6	52	54	LYS
6	52	63	TYR
6	52	64	GLN
6	52	72	VAL
6	52	74	ASP
6	52	77	ARG
6	52	83	ASP
7	62	5	ARG
7	62	8	GLU
7	62	10	ARG
7	62	12	LEU
7	62	27	ILE
7	62	49	ILE
7	62	50	ILE
7	62	51	GLN
7	62	54	THR
7	62	60	LYS
7	62	69	VAL
7	62	72	ARG
7	62	73	MET
7	62	86	GLN
7	62	89	MET
7	62	91	VAL
7	62	92	SER
7	62	94	ARG
7	62	99	LEU
7	62	101	LEU
7	62	104	LEU
7	62	114	ARG
7	62	124	LEU
7	62	131	LYS
7	62	137	LYS
7	62	140	ASP
7	62	146	GLU
7	62	148	ASN
8	72	1	MET
8	72	2	LEU
8	72	10	LEU
8	72	17	THR

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Mol	Chain	Res	Type
8	72	23	SER
8	72	26	VAL
8	72	33	GLU
8	72	35	ILE
8	72	39	LEU
8	72	50	ARG
8	72	51	VAL
8	72	54	ASP
8	72	56	LYS
8	72	63	LEU
8	72	70	GLN
8	72	73	ASP
8	72	79	VAL
8	72	83	ILE
8	72	91	ARG
8	72	92	ARG
8	72	95	VAL
8	72	97	VAL
8	72	99	GLU
8	72	100	ILE
8	72	102	ARG
8	72	111	ILE
8	72	112	LEU
8	72	114	THR
8	72	119	LEU
8	72	133	LEU
9	82	7	THR
9	82	31	GLN
9	82	35	GLU
9	82	38	GLN
9	82	40	LEU
9	82	42	ARG
9	82	47	LEU
9	82	56	LEU
9	82	87	GLN
9	82	95	LYS
9	82	99	LEU
9	82	104	ARG
9	82	113	LYS
9	82	117	HIS
9	82	118	LYS
9	82	128	ARG

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Mol	Chain	Res	Type
10	1A	13	HIS
10	1A	17	ASP
10	1A	42	THR
10	1A	44	VAL
10	1A	54	PHE
10	1A	55	LYS
10	1A	57	LYS
10	1A	58	ASP
10	1A	60	ARG
10	1A	62	HIS
10	1A	74	ILE
10	1A	75	ILE
10	1A	79	ARG
10	1A	82	ILE
11	2A	11	LYS
11	2A	12	ARG
11	2A	13	GLN
11	2A	14	VAL
11	2A	21	ILE
11	2A	29	ILE
11	2A	31	THR
11	2A	32	ILE
11	2A	40	ILE
11	2A	44	SER
11	2A	70	LYS
11	2A	79	SER
11	2A	82	VAL
11	2A	87	THR
11	2A	105	VAL
11	2A	106	LYS
11	2A	109	VAL
11	2A	124	LYS
11	2A	126	ARG
12	3A	7	ILE
12	3A	10	LEU
12	3A	24	VAL
12	3A	27	LEU
12	3A	36	VAL
12	3A	37	CYS
12	3A	38	THR
12	3A	39	VAL
12	3A	41	ARG

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Mol	Chain	Res	Type
12	3A	42	THR
12	3A	43	VAL
12	3A	46	LYS
12	3A	47	LYS
12	3A	54	LYS
12	3A	55	VAL
12	3A	59	ARG
12	3A	60	LEU
12	3A	61	THR
12	3A	64	TYR
12	3A	65	GLU
12	3A	66	VAL
12	3A	83	VAL
12	3A	84	LEU
12	3A	96	VAL
12	3A	98	TYR
12	3A	111	LYS
12	3A	112	ASP
12	3A	118	SER
13	4A	4	ILE
13	4A	8	GLU
13	4A	11	ARG
13	4A	17	VAL
13	4A	19	LEU
13	4A	32	GLU
13	4A	34	LEU
13	4A	37	THR
13	4A	39	ILE
13	4A	45	VAL
13	4A	47	ASP
13	4A	49	THR
13	4A	58	GLU
13	4A	64	TRP
13	4A	65	LYS
13	4A	66	LEU
13	4A	70	LEU
13	4A	77	ASN
13	4A	79	LYS
13	4A	82	MET
13	4A	83	ASP
13	4A	86	CYS
13	4A	88	ARG

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Mol	Chain	Res	Type
13	4A	92	HIS
13	4A	98	VAL
13	4A	99	ARG
13	4A	101	GLN
13	4A	102	ARG
13	4A	103	THR
13	4A	105	THR
13	4A	108	ARG
13	4A	115	LYS
13	4A	116	THR
14	5A	6	LEU
14	5A	7	ILE
14	5A	8	GLU
14	5A	12	ARG
14	5A	17	LYS
14	5A	25	VAL
14	5A	26	ARG
14	5A	33	VAL
14	5A	44	LEU
14	5A	53	LEU
15	6A	3	ILE
15	6A	10	LYS
15	6A	21	ASP
15	6A	24	SER
15	6A	27	VAL
15	6A	31	LEU
15	6A	39	LEU
15	6A	41	GLU
15	6A	48	LYS
15	6A	58	MET
15	6A	65	ARG
15	6A	66	LEU
15	6A	67	LEU
15	6A	71	GLN
15	6A	79	ARG
15	6A	82	ILE
15	6A	83	GLU
15	6A	88	ARG
16	7A	1	MET
16	7A	2	VAL
16	7A	6	LEU
16	7A	8	ARG

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Mol	Chain	Res	Type
16	7A	11	SER
16	7A	13	HIS
16	7A	21	VAL
16	7A	31	LYS
16	7A	34	GLU
16	7A	39	TYR
16	7A	45	THR
16	7A	62	VAL
16	7A	65	GLN
16	7A	67	THR
16	7A	69	THR
16	7A	73	LEU
16	7A	74	LEU
16	7A	76	GLN
16	7A	82	GLN
17	8A	6	LEU
17	8A	7	THR
17	8A	10	VAL
17	8A	11	VAL
17	8A	15	MET
17	8A	23	VAL
17	8A	26	GLN
17	8A	36	ILE
17	8A	38	ARG
17	8A	39	SER
17	8A	50	LYS
17	8A	52	LYS
17	8A	53	LEU
17	8A	60	ILE
17	8A	67	LYS
17	8A	68	ARG
17	8A	73	VAL
17	8A	74	LEU
17	8A	100	LYS
18	9A	21	LYS
18	9A	25	THR
18	9A	26	LEU
18	9A	28	GLU
18	9A	29	PHE
18	9A	31	LEU
18	9A	32	ARG
18	9A	36	ASN

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Mol	Chain	Res	Type
18	9A	37	VAL
18	9A	44	LEU
18	9A	47	THR
18	9A	53	ARG
18	9A	58	LEU
18	9A	65	ILE
18	9A	82	THR
18	9A	84	LYS
18	9A	86	VAL
19	AA	9	VAL
19	AA	11	VAL
19	AA	22	LEU
19	AA	23	ASN
19	AA	25	LYS
19	AA	28	LYS
19	AA	33	THR
19	AA	34	TRP
19	AA	41	VAL
19	AA	44	MET
19	AA	49	ILE
19	AA	53	ASN
19	AA	60	VAL
19	AA	66	MET
19	AA	78	ARG
20	BA	8	ARG
20	BA	10	LEU
20	BA	11	SER
20	BA	17	ARG
20	BA	22	ARG
20	BA	23	ARG
20	BA	24	LEU
20	BA	30	LYS
20	BA	37	SER
20	BA	60	GLU
20	BA	73	HIS
20	BA	84	LEU
21	1B	9	ARG
29	19	10	THR
29	19	24	ILE
29	19	28	GLU
29	19	31	LYS
29	19	32	SER

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Mol	Chain	Res	Type
29	19	34	VAL
29	19	38	LYS
29	19	39	LYS
29	19	40	THR
29	19	49	ILE
29	19	61	LEU
29	19	64	ILE
29	19	65	ILE
29	19	68	LYS
29	19	69	ARG
29	19	72	LYS
29	19	82	ILE
29	19	87	ASN
29	19	88	ARG
29	19	89	SER
29	19	94	LEU
29	19	99	ASP
29	19	101	GLU
29	19	103	ARG
29	19	105	ILE
29	19	111	LEU
29	19	113	VAL
29	19	115	GLN
29	19	116	GLN
29	19	118	VAL
29	19	125	ILE
29	19	126	GLN
29	19	138	VAL
29	19	142	VAL
29	19	147	LEU
29	19	154	LYS
29	19	157	ARG
29	19	166	GLN
29	19	169	GLU
29	19	173	VAL
29	19	176	ARG
29	19	182	LEU
29	19	192	THR
29	19	193	VAL
29	19	204	ILE
29	19	208	LYS
29	19	211	ARG

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Mol	Chain	Res	Type
29	19	212	SER
29	19	217	ARG
29	19	218	ARG
29	19	221	VAL
29	19	222	ARG
29	19	232	PRO
29	19	242	ARG
29	19	244	ARG
29	19	255	LYS
29	19	257	LEU
29	19	260	ARG
29	19	262	ARG
29	19	266	SER
29	19	268	ARG
29	19	270	ILE
29	19	271	ILE
30	29	1	MET
30	29	5	LEU
30	29	7	VAL
30	29	12	THR
30	29	17	ASP
30	29	19	ARG
30	29	38	THR
30	29	45	THR
30	29	47	VAL
30	29	48	GLN
30	29	52	LEU
30	29	60	ASN
30	29	64	LYS
30	29	69	LYS
30	29	76	ARG
30	29	77	ILE
30	29	90	THR
30	29	95	ILE
30	29	97	LYS
30	29	107	THR
30	29	111	ARG
30	29	113	PHE
30	29	117	MET
30	29	119	ARG
30	29	134	ILE
30	29	144	ARG

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Mol	Chain	Res	Type
30	29	154	LYS
30	29	167	VAL
30	29	168	MET
30	29	170	LEU
30	29	175	VAL
30	29	178	GLU
30	29	181	LEU
30	29	184	VAL
30	29	188	VAL
30	29	197	ILE
30	29	200	GLU
30	29	201	THR
30	29	202	LYS
30	29	203	LYS
31	39	6	VAL
31	39	7	TYR
31	39	8	GLN
31	39	9	ILE
31	39	11	VAL
31	39	18	ARG
31	39	20	LEU
31	39	23	ASP
31	39	24	LEU
31	39	29	ASN
31	39	33	LEU
31	39	38	ARG
31	39	46	ARG
31	39	62	ARG
31	39	63	LYS
31	39	67	GLN
31	39	68	LYS
31	39	69	HIS
31	39	72	ARG
31	39	74	ARG
31	39	78	ILE
31	39	83	PHE
31	39	88	VAL
31	39	89	VAL
31	39	105	VAL
31	39	107	LYS
31	39	110	LEU
31	39	123	LEU

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Mol	Chain	Res	Type
31	39	127	GLU
31	39	153	SER
31	39	154	VAL
31	39	158	THR
31	39	168	ARG
31	39	175	THR
31	39	176	LEU
31	39	181	LEU
31	39	183	VAL
31	39	189	THR
31	39	191	ARG
31	39	192	LEU
31	39	193	VAL
31	39	196	LEU
31	39	197	ASP
31	39	205	ARG
32	49	7	LEU
32	49	13	GLU
32	49	19	LEU
32	49	20	ILE
32	49	21	ARG
32	49	26	GLN
32	49	28	VAL
32	49	34	LEU
32	49	35	GLU
32	49	36	LYS
32	49	39	ILE
32	49	40	ASN
32	49	43	LEU
32	49	53	LEU
32	49	54	GLU
32	49	59	GLU
32	49	62	LEU
32	49	64	THR
32	49	66	GLN
32	49	67	LYS
32	49	74	LYS
32	49	80	PHE
32	49	81	LYS
32	49	82	LEU
32	49	91	ARG
32	49	101	ILE

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Mol	Chain	Res	Type
32	49	106	LEU
32	49	114	ILE
32	49	115	ARG
32	49	118	ARG
32	49	120	LEU
32	49	123	ASN
32	49	126	ASP
32	49	130	ASN
32	49	133	LEU
32	49	136	ARG
32	49	147	ASP
32	49	153	ARG
32	49	159	VAL
32	49	160	VAL
32	49	161	THR
32	49	172	LEU
32	49	173	LEU
32	49	176	LEU
33	59	3	ARG
33	59	6	ARG
33	59	7	LEU
33	59	9	ILE
33	59	11	VAL
33	59	15	VAL
33	59	24	VAL
33	59	27	LYS
33	59	32	GLU
33	59	37	VAL
33	59	41	MET
33	59	44	VAL
33	59	45	VAL
33	59	49	VAL
33	59	51	ARG
33	59	62	LYS
33	59	67	LEU
33	59	86	GLU
33	59	98	LEU
33	59	99	VAL
33	59	101	ARG
33	59	103	LEU
33	59	113	VAL
33	59	122	THR

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Mol	Chain	Res	Type
33	59	123	PHE
33	59	125	VAL
33	59	127	GLU
33	59	129	THR
33	59	133	VAL
33	59	134	SER
33	59	136	ILE
33	59	141	VAL
33	59	143	GLN
33	59	147	ASN
33	59	157	TYR
33	59	158	HIS
33	59	160	LYS
33	59	167	GLU
34	69	1	MET
34	69	2	LYS
34	69	4	ILE
34	69	6	LEU
34	69	14	ASP
34	69	15	VAL
34	69	21	VAL
34	69	37	VAL
34	69	50	ARG
34	69	51	ILE
34	69	54	GLN
34	69	56	LYS
34	69	57	ARG
34	69	58	LEU
34	69	68	LEU
34	69	69	LYS
34	69	75	LEU
34	69	76	THR
34	69	77	LEU
34	69	78	THR
34	69	79	ILE
34	69	81	VAL
34	69	82	ARG
34	69	86	THR
34	69	101	LEU
34	69	103	ARG
34	69	104	GLN
34	69	108	THR

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Mol	Chain	Res	Type
34	69	109	ILE
34	69	110	ASP
34	69	112	LYS
34	69	114	LEU
34	69	117	GLU
34	69	122	GLU
34	69	125	GLU
34	69	133	HIS
34	69	138	ILE
34	69	139	GLN
34	69	142	VAL
34	69	145	VAL
35	15	1	MET
35	15	5	VAL
35	15	10	GLU
35	15	12	ARG
35	15	30	ILE
35	15	32	THR
35	15	34	LEU
35	15	35	ARG
35	15	37	LYS
35	15	43	THR
35	15	46	VAL
35	15	48	MET
35	15	59	LYS
35	15	62	VAL
35	15	69	GLN
35	15	85	ILE
35	15	90	MET
35	15	91	LEU
35	15	93	THR
35	15	94	HIS
35	15	99	LEU
35	15	106	MET
35	15	112	LEU
35	15	127	ASP
35	15	134	ARG
35	15	136	GLU
36	25	3	GLN
36	25	5	GLN
36	25	8	LEU
36	25	10	VAL

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Mol	Chain	Res	Type
36	25	13	ASN
36	25	19	ILE
36	25	22	ILE
36	25	24	VAL
36	25	28	SER
36	25	35	VAL
36	25	38	VAL
36	25	39	ILE
36	25	42	SER
36	25	44	LYS
36	25	47	ILE
36	25	53	LYS
36	25	58	VAL
36	25	61	VAL
36	25	69	ILE
36	25	70	LYS
36	25	73	ASP
36	25	77	ILE
36	25	85	VAL
36	25	86	ILE
36	25	89	ASN
36	25	90	GLN
36	25	91	LEU
36	25	94	ARG
36	25	96	THR
36	25	97	ARG
36	25	113	LYS
36	25	114	ILE
36	25	117	LEU
37	35	3	LEU
37	35	6	LEU
37	35	7	ARG
37	35	10	PRO
37	35	15	ARG
37	35	16	ARG
37	35	18	ARG
37	35	19	VAL
37	35	21	ARG
37	35	27	HIS
37	35	30	THR
37	35	36	LYS
37	35	39	LYS

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Mol	Chain	Res	Type
37	35	41	ARG
37	35	49	ARG
37	35	52	GLU
37	35	55	ARG
37	35	59	LEU
37	35	61	ARG
37	35	64	LYS
37	35	65	ARG
37	35	67	MET
37	35	68	GLN
37	35	71	VAL
37	35	75	ILE
37	35	81	GLN
37	35	83	VAL
37	35	85	LEU
37	35	90	ARG
37	35	96	THR
37	35	98	GLU
37	35	101	VAL
37	35	110	TYR
37	35	111	ARG
37	35	112	LEU
37	35	114	ILE
37	35	117	GLU
37	35	121	LYS
37	35	123	LEU
37	35	124	LYS
37	35	125	VAL
37	35	128	HIS
37	35	133	SER
37	35	135	LEU
37	35	144	GLU
37	35	146	VAL
37	35	147	LEU
38	45	1	MET
38	45	3	MET
38	45	7	MET
38	45	16	ARG
38	45	18	LYS
38	45	22	LYS
38	45	27	VAL
38	45	32	TYR

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Mol	Chain	Res	Type
38	45	35	VAL
38	45	38	GLU
38	45	45	GLN
38	45	55	VAL
38	45	60	ARG
38	45	79	LEU
38	45	81	VAL
38	45	83	MET
38	45	89	ASN
38	45	90	VAL
38	45	91	GLU
38	45	103	MET
38	45	110	THR
38	45	115	MET
38	45	116	GLU
38	45	120	ILE
38	45	127	ILE
38	45	133	ARG
38	45	134	ARG
38	45	138	ASP
38	45	139	GLU
39	55	6	SER
39	55	18	LEU
39	55	27	SER
39	55	28	LEU
39	55	29	LEU
39	55	34	ILE
39	55	35	THR
39	55	36	THR
39	55	43	GLU
39	55	44	LEU
39	55	48	VAL
39	55	51	LEU
39	55	54	LEU
39	55	56	LYS
39	55	59	ASP
39	55	64	ARG
39	55	65	LEU
39	55	71	GLN
39	55	73	VAL
39	55	74	LYS
39	55	79	LEU

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Mol	Chain	Res	Type
39	55	81	ASP
39	55	82	GLU
39	55	91	GLN
39	55	104	ARG
39	55	105	ARG
39	55	113	LEU
39	55	115	GLU
39	55	118	GLU
40	65	4	LEU
40	65	12	PHE
40	65	16	ASN
40	65	19	LYS
40	65	21	THR
40	65	32	LEU
40	65	36	TYR
40	65	40	ILE
40	65	48	LEU
40	65	50	SER
40	65	56	LEU
40	65	58	LEU
40	65	78	LEU
40	65	82	ILE
40	65	93	LYS
40	65	98	VAL
40	65	101	LEU
40	65	106	ARG
40	65	107	GLU
40	65	110	LEU
41	75	6	LEU
41	75	8	LYS
41	75	11	GLU
41	75	16	ARG
41	75	17	THR
41	75	19	LEU
41	75	21	GLU
41	75	27	THR
41	75	28	VAL
41	75	30	VAL
41	75	36	GLU
41	75	40	THR
41	75	42	ILE
41	75	50	ILE

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Mol	Chain	Res	Type
41	75	51	ARG
41	75	54	ARG
41	75	55	ASN
41	75	59	THR
41	75	62	THR
41	75	64	ARG
41	75	65	LYS
41	75	74	ARG
41	75	78	LEU
41	75	86	ILE
41	75	88	ILE
41	75	89	VAL
41	75	91	ARG
41	75	93	ARG
41	75	105	LEU
41	75	108	ARG
41	75	109	GLU
41	75	110	ILE
41	75	111	ARG
41	75	113	LYS
41	75	123	GLN
41	75	124	ASP
41	75	133	GLU
41	75	134	GLU
41	75	137	LYS
42	85	3	ARG
42	85	5	LYS
42	85	8	VAL
42	85	15	LYS
42	85	17	ILE
42	85	20	LEU
42	85	27	LEU
42	85	29	SER
42	85	34	LYS
42	85	40	PHE
42	85	55	ARG
42	85	56	ASP
42	85	59	ARG
42	85	63	VAL
42	85	64	ARG
42	85	65	ILE
42	85	71	GLN

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Mol	Chain	Res	Type
42	85	83	LEU
42	85	88	ILE
42	85	92	ARG
42	85	93	LYS
42	85	97	ASP
42	85	101	ARG
42	85	105	VAL
43	95	7	THR
43	95	10	LYS
43	95	14	VAL
43	95	19	LYS
43	95	24	LYS
43	95	32	THR
43	95	35	LEU
43	95	38	LEU
43	95	40	LEU
43	95	44	LYS
43	95	45	THR
43	95	46	VAL
43	95	47	VAL
43	95	49	THR
43	95	56	SER
43	95	57	VAL
43	95	62	LEU
43	95	70	ILE
43	95	71	LEU
43	95	72	VAL
43	95	74	LYS
43	95	79	VAL
43	95	81	TYR
43	95	83	ARG
43	95	84	LYS
43	95	85	LYS
43	95	89	GLN
43	95	91	TYR
43	95	95	LEU
43	95	100	ARG
44	A5	11	ARG
44	A5	19	LEU
44	A5	20	VAL
44	A5	23	LEU
44	A5	28	SER

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Mol	Chain	Res	Type
44	A5	30	GLU
44	A5	37	ARG
44	A5	39	THR
44	A5	41	LYS
44	A5	59	VAL
44	A5	60	ASN
44	A5	65	LEU
44	A5	67	ASP
44	A5	70	TYR
44	A5	76	VAL
44	A5	82	LEU
44	A5	85	VAL
44	A5	86	LEU
44	A5	90	ARG
44	A5	92	ARG
44	A5	95	ILE
44	A5	96	ILE
44	A5	97	LYS
44	A5	100	THR
44	A5	105	VAL
44	A5	106	ILE
44	A5	107	LEU
44	A5	109	GLU
44	A5	110	LYS
44	A5	111	HIS
45	B5	3	THR
45	B5	8	ILE
45	B5	12	VAL
45	B5	23	GLU
45	B5	30	VAL
45	B5	35	THR
45	B5	40	LYS
45	B5	44	GLU
45	B5	45	THR
45	B5	48	LYS
45	B5	49	VAL
45	B5	51	VAL
45	B5	54	VAL
45	B5	59	VAL
45	B5	60	ARG
45	B5	63	LYS
45	B5	70	LEU

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Mol	Chain	Res	Type
45	B5	75	ASP
45	B5	76	ARG
45	B5	78	LYS
45	B5	80	ILE
45	B5	83	VAL
46	C5	2	ARG
46	C5	3	VAL
46	C5	19	LYS
46	C5	23	ARG
46	C5	24	VAL
46	C5	26	LYS
46	C5	29	GLU
46	C5	37	VAL
46	C5	38	ILE
46	C5	47	LYS
46	C5	49	VAL
46	C5	51	VAL
46	C5	55	TYR
46	C5	62	GLU
46	C5	63	LYS
46	C5	70	SER
46	C5	84	ARG
46	C5	85	VAL
46	C5	88	LYS
46	C5	89	PHE
46	C5	94	LYS
46	C5	97	ARG
46	C5	98	VAL
46	C5	99	CYS
46	C5	102	CYS
47	D5	4	ARG
47	D5	11	GLU
47	D5	13	GLU
47	D5	16	SER
47	D5	18	LEU
47	D5	19	ARG
47	D5	24	LEU
47	D5	31	ARG
47	D5	32	HIS
47	D5	39	VAL
47	D5	42	VAL
47	D5	53	ILE

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Mol	Chain	Res	Type
47	D5	57	ILE
47	D5	66	SER
47	D5	67	LEU
47	D5	70	LEU
47	D5	71	VAL
47	D5	72	ARG
47	D5	74	VAL
47	D5	80	ARG
47	D5	85	HIS
47	D5	86	VAL
47	D5	90	VAL
47	D5	91	LEU
47	D5	92	SER
47	D5	102	LEU
47	D5	103	ARG
47	D5	133	ILE
47	D5	154	ASP
47	D5	157	LEU
47	D5	165	VAL
47	D5	168	GLU
48	E5	9	SER
48	E5	10	THR
48	E5	12	ASN
48	E5	14	ARG
48	E5	19	LYS
48	E5	36	ILE
48	E5	40	GLN
48	E5	46	LYS
48	E5	49	LYS
48	E5	55	ARG
48	E5	58	THR
48	E5	63	VAL
48	E5	64	ASP
48	E5	66	VAL
48	E5	70	GLN
48	E5	79	VAL
48	E5	80	HIS
49	F5	4	VAL
49	F5	11	ARG
49	F5	13	ILE
49	F5	19	GLN
49	F5	21	ARG

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Mol	Chain	Res	Type
49	F5	23	LYS
49	F5	26	ARG
49	F5	27	GLU
49	F5	30	VAL
49	F5	32	LYS
49	F5	38	SER
49	F5	40	ARG
49	F5	49	VAL
49	F5	52	ARG
49	F5	59	THR
49	F5	65	SER
49	F5	72	GLU
49	F5	76	ARG
49	F5	78	LYS
49	F5	82	LEU
49	F5	83	GLU
49	F5	85	LEU
49	F5	88	LYS
49	F5	89	GLU
49	F5	90	ILE
49	F5	91	LYS
49	F5	93	GLU
50	G5	5	GLU
50	G5	10	LEU
50	G5	14	ARG
50	G5	15	LYS
50	G5	16	LEU
50	G5	24	LEU
50	G5	34	GLU
50	G5	46	GLN
50	G5	48	HIS
50	G5	49	LYS
50	G5	50	ILE
50	G5	52	ASP
50	G5	53	LEU
50	G5	55	ARG
50	G5	60	LEU
50	G5	61	LEU
50	G5	62	THR
50	G5	64	LEU
50	G5	65	ASN
50	G5	67	LYS

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Mol	Chain	Res	Type
50	G5	68	ARG
50	G5	69	ARG
51	H5	5	LYS
51	H5	8	LEU
51	H5	10	LYS
51	H5	13	ILE
51	H5	17	LYS
51	H5	20	LYS
51	H5	24	LYS
51	H5	35	ARG
51	H5	36	VAL
51	H5	40	THR
51	H5	43	ILE
51	H5	49	LYS
51	H5	53	LEU
51	H5	55	ARG
51	H5	59	VAL
52	I5	6	HIS
52	I5	8	LYS
52	I5	21	VAL
52	I5	22	ILE
52	I5	30	GLU
52	I5	32	TYR
52	I5	33	VAL
52	I5	35	VAL
52	I5	38	LYS
52	I5	46	GLN
52	I5	53	GLU
52	I5	58	ARG
52	I5	59	PHE
52	I5	61	ARG
52	I5	62	ARG
53	J5	3	LYS
53	J5	4	HIS
53	J5	15	ARG
53	J5	19	ARG
53	J5	22	HIS
53	J5	25	LEU
53	J5	29	THR
53	J5	35	GLU
53	J5	36	CYS
53	J5	37	LYS

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Mol	Chain	Res	Type
53	J5	45	VAL
53	J5	48	GLU
53	J5	55	ARG
54	L5	1	MET
54	L5	2	LYS
54	L5	4	THR
54	L5	8	ASN
54	L5	22	MET
54	L5	24	THR
54	L5	28	ARG
54	L5	32	LYS
54	L5	36	GLN
54	L5	41	ARG
54	L5	43	THR
54	L5	46	VAL
55	M5	3	LYS
55	M5	12	LYS
55	M5	14	VAL
55	M5	16	ILE
55	M5	22	VAL
55	M5	27	THR
55	M5	32	LEU
55	M5	33	ASN
55	M5	34	TRP
55	M5	37	SER
55	M5	46	ARG
55	M5	52	LYS
55	M5	53	PRO
55	M5	54	GLU
55	M5	59	LYS
55	M5	60	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (77) such sidechains are listed below:

Mol	Chain	Res	Type
2	1E	16	HIS
4	3E	42	GLN
5	4E	78	HIS
7	6E	84	ASN
15	6I	71	GLN
16	7I	16	HIS
17	8I	94	ASN

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Mol	Chain	Res	Type
19	AI	47	HIS
20	BI	9	ASN
20	BI	18	GLN
28	71	56	GLN
28	71	66	HIS
28	71	227	HIS
29	11	220	HIS
30	21	132	HIS
30	21	159	HIS
31	31	69	HIS
31	31	75	HIS
31	31	204	ASN
32	41	40	ASN
34	61	105	HIS
37	78	68	GLN
39	98	11	ASN
39	98	91	GLN
40	A8	34	HIS
41	B8	58	ASN
41	B8	136	GLN
43	D8	80	GLN
44	E8	40	ASN
44	E8	60	ASN
45	F8	55	ASN
47	H8	65	GLN
48	I8	29	GLN
49	J8	42	GLN
50	K8	65	ASN
55	Q8	35	GLN
2	12	19	HIS
3	22	37	GLN
3	22	139	GLN
4	32	42	GLN
5	42	38	GLN
5	42	65	ASN
7	62	51	GLN
7	62	106	GLN
7	62	109	ASN
9	82	124	GLN
10	1A	78	ASN
11	2A	117	ASN
13	4A	106	ASN

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Mol	Chain	Res	Type
15	6A	62	GLN
29	19	115	GLN
29	19	126	GLN
29	19	143	HIS
29	19	231	HIS
30	29	48	GLN
31	39	40	GLN
31	39	169	ASN
34	69	104	GLN
34	69	105	HIS
35	15	56	ASN
35	15	69	GLN
35	15	94	HIS
36	25	3	GLN
37	35	27	HIS
37	35	68	GLN
38	45	45	GLN
38	45	123	HIS
39	55	3	HIS
39	55	11	ASN
39	55	61	HIS
40	65	34	HIS
45	B5	41	ASN
46	C5	68	HIS
50	G5	47	ASN
50	G5	56	GLN
53	J5	23	HIS
55	M5	35	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1495/1522 (98%)	397 (26%)	38 (2%)
1	1G	1495/1522 (98%)	398 (26%)	36 (2%)
22	1K	65/77 (84%)	28 (43%)	3 (4%)
23	2K	76/77 (98%)	16 (21%)	1 (1%)
24	3K	76/76 (100%)	35 (46%)	6 (7%)
24	3L	75/76 (98%)	39 (52%)	2 (2%)
25	4K	12/27 (44%)	2 (16%)	0
25	4L	9/27 (33%)	4 (44%)	1 (11%)
26	14	2874/2917 (98%)	805 (28%)	48 (1%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
26	1H	2901/2917 (99%)	739 (25%)	52 (1%)
27	16	121/122 (99%)	25 (20%)	0
27	1J	121/122 (99%)	39 (32%)	1 (0%)
56	2L	76/77 (98%)	22 (28%)	3 (3%)
All	All	9396/9559 (98%)	2549 (27%)	191 (2%)

All (2549) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	5	U
1	13	6	G
1	13	7	G
1	13	8	A
1	13	9	G
1	13	31	G
1	13	32	A
1	13	39	G
1	13	44	G
1	13	47	C
1	13	48	C
1	13	50	A
1	13	51	A
1	13	54	C
1	13	61	G
1	13	65	U
1	13	66	G
1	13	74	C
1	13	76	G
1	13	77	C
1	13	78	G
1	13	79	G
1	13	90	C
1	13	91	C
1	13	95	G
1	13	101	A
1	13	108	G
1	13	117	G
1	13	121	C
1	13	129(A)	G
1	13	130	A
1	13	131	C
1	13	138	G

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Mol	Chain	Res	Type
1	13	142	G
1	13	144	G
1	13	147	G
1	13	150	C
1	13	151	A
1	13	160	A
1	13	163	C
1	13	164	U
1	13	168	G
1	13	169	C
1	13	172	A
1	13	173	U
1	13	174	C
1	13	180	U
1	13	188	U
1	13	190	G
1	13	191(A)	G
1	13	195	A
1	13	197	A
1	13	199	G
1	13	200	G
1	13	201	C
1	13	208	U
1	13	209	U
1	13	210	U
1	13	217	C
1	13	222	U
1	13	227	G
1	13	243	A
1	13	244	U
1	13	245	C
1	13	247	G
1	13	250	A
1	13	251	G
1	13	256	U
1	13	262	A
1	13	266	G
1	13	267	C
1	13	270	A
1	13	280	C
1	13	281	G
1	13	289	G

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Mol	Chain	Res	Type
1	13	299	G
1	13	318	G
1	13	321	A
1	13	324	G
1	13	326	G
1	13	327	A
1	13	328	C
1	13	330	C
1	13	332	G
1	13	342	C
1	13	344	A
1	13	345	C
1	13	346	G
1	13	347	G
1	13	350	G
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	382	A
1	13	384	G
1	13	388	G
1	13	390	C
1	13	397	A
1	13	398	C
1	13	406	G
1	13	412	A
1	13	413	G
1	13	414	A
1	13	419	C
1	13	422	C
1	13	423	G
1	13	429	U
1	13	430	A
1	13	435	C
1	13	452	A
1	13	455	C
1	13	465	A
1	13	466	C
1	13	467	G

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Mol	Chain	Res	Type
1	13	476	G
1	13	481	G
1	13	485	G
1	13	496	A
1	13	497	U
1	13	504	C
1	13	505	G
1	13	508	C
1	13	509	A
1	13	510	A
1	13	511	C
1	13	512	U
1	13	518	C
1	13	521	G
1	13	527	G
1	13	531	U
1	13	532	A
1	13	533	A
1	13	534	U
1	13	546	G
1	13	547	A
1	13	559	A
1	13	561	U
1	13	564	C
1	13	569	C
1	13	572	A
1	13	573	A
1	13	576	G
1	13	577	G
1	13	587	G
1	13	591	U
1	13	596	C
1	13	607	A
1	13	616	G
1	13	617	G
1	13	618	C
1	13	623	C
1	13	624	C
1	13	627	G
1	13	630	G
1	13	631	G
1	13	632	A

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Mol	Chain	Res	Type
1	13	633	G
1	13	639	G
1	13	650	G
1	13	652	U
1	13	653	A
1	13	665	A
1	13	679	C
1	13	683	G
1	13	684	A
1	13	687	A
1	13	688	G
1	13	698	G
1	13	702	A
1	13	704	A
1	13	721	G
1	13	723	U
1	13	724	G
1	13	728	A
1	13	735	C
1	13	747	C
1	13	748	C
1	13	749	C
1	13	750	G
1	13	752	G
1	13	753	A
1	13	755	G
1	13	759	A
1	13	766	A
1	13	767	A
1	13	768	A
1	13	769	G
1	13	777	A
1	13	792	A
1	13	793	U
1	13	794	A
1	13	796	C
1	13	803	G
1	13	804	U
1	13	813	U
1	13	815	A
1	13	817	C
1	13	820	U

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Mol	Chain	Res	Type
1	13	821	G
1	13	828	A
1	13	841	U
1	13	842	C
1	13	843	U
1	13	848	C
1	13	859	A
1	13	864	A
1	13	869	G
1	13	870	U
1	13	873	A
1	13	889	A
1	13	902	G
1	13	903	G
1	13	905	U
1	13	914	A
1	13	916	G
1	13	922	G
1	13	926	G
1	13	927	G
1	13	933	G
1	13	934	C
1	13	935	A
1	13	940	C
1	13	950	U
1	13	958	A
1	13	960	U
1	13	968	A
1	13	969	A
1	13	971	G
1	13	975	A
1	13	976	G
1	13	977	A
1	13	978	A
1	13	982	U
1	13	983	A
1	13	991	U
1	13	992	U
1	13	993	G
1	13	994	A
1	13	998	G
1	13	1004	A

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Mol	Chain	Res	Type
1	13	1005	A
1	13	1006	C
1	13	1008	C
1	13	1009	G
1	13	1017	G
1	13	1020	U
1	13	1021	G
1	13	1023	G
1	13	1024	G
1	13	1025	U
1	13	1027	C
1	13	1028	C
1	13	1028(B)	C
1	13	1029	G
1	13	1032(A)	G
1	13	1033	G
1	13	1035	A
1	13	1037	C
1	13	1038	C
1	13	1039	C
1	13	1040	U
1	13	1042	G
1	13	1053	G
1	13	1054	C
1	13	1055	A
1	13	1064	G
1	13	1065	U
1	13	1066	C
1	13	1067	A
1	13	1081	G
1	13	1085	U
1	13	1094	G
1	13	1095	U
1	13	1101	A
1	13	1118	C
1	13	1122	U
1	13	1124	G
1	13	1125	U
1	13	1126	U
1	13	1127	G
1	13	1129	C
1	13	1130	A

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Mol	Chain	Res	Type
1	13	1131	G
1	13	1136	U
1	13	1137	C
1	13	1138	G
1	13	1139	G
1	13	1146	A
1	13	1147	C
1	13	1148	U
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	1161	C
1	13	1171	G
1	13	1177	G
1	13	1178	G
1	13	1179	A
1	13	1181	G
1	13	1182	G
1	13	1184	G
1	13	1189	C
1	13	1191	A
1	13	1193	G
1	13	1196	U
1	13	1197	G
1	13	1201	A
1	13	1204	A
1	13	1212	U
1	13	1213	A
1	13	1214	C
1	13	1215	G
1	13	1218	C
1	13	1223	C
1	13	1225	A
1	13	1227	A
1	13	1238	A
1	13	1240	U
1	13	1248	A
1	13	1256	A
1	13	1257	U

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Mol	Chain	Res	Type
1	13	1258	G
1	13	1263	C
1	13	1267	C
1	13	1270	C
1	13	1272	G
1	13	1273	G
1	13	1277	C
1	13	1278	U
1	13	1280	A
1	13	1281	U
1	13	1282	C
1	13	1286	A
1	13	1287	A
1	13	1297	C
1	13	1299	A
1	13	1300	G
1	13	1301	U
1	13	1302	U
1	13	1303	C
1	13	1304	G
1	13	1319	A
1	13	1322	C
1	13	1323	G
1	13	1325	C
1	13	1331	G
1	13	1334	G
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	1361	G
1	13	1362(A)	C
1	13	1363	A
1	13	1364	U
1	13	1370	G
1	13	1377	A
1	13	1379	G
1	13	1381	U

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Mol	Chain	Res	Type
1	13	1398	A
1	13	1400	C
1	13	1402	C
1	13	1419	G
1	13	1436	U
1	13	1442	G
1	13	1443	G
1	13	1446	A
1	13	1449	C
1	13	1452	C
1	13	1453	G
1	13	1454	G
1	13	1469	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	1505	G
1	13	1506	U
1	13	1507	A
1	13	1517	G
1	13	1519	A
1	13	1520	G
1	13	1529	G
1	13	1530	G
22	1K	2	G
22	1K	3	C
22	1K	7	G
22	1K	8	U
22	1K	9	G
22	1K	10	G
22	1K	11	A
22	1K	13	C
22	1K	15	G
22	1K	24	C
22	1K	27	G
22	1K	41	C
22	1K	43	G
22	1K	46	G

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Mol	Chain	Res	Type
22	1K	47	G
22	1K	48	U
22	1K	49	C
22	1K	50	G
22	1K	52	C
22	1K	54	G
22	1K	59	A
22	1K	60	A
22	1K	61	U
22	1K	63	C
22	1K	64	G
22	1K	74	A
22	1K	75	C
22	1K	76	C
23	2K	6	G
23	2K	8	4SU
23	2K	9	G
23	2K	13	C
23	2K	16	C
23	2K	18	C
23	2K	19	G
23	2K	21	U
23	2K	22	A
23	2K	23	G
23	2K	48	U
23	2K	49	C
23	2K	53	G
23	2K	57	C
23	2K	73	A
23	2K	77	A
24	3K	2	C
24	3K	3	C
24	3K	7	A
24	3K	8	4SU
24	3K	9	A
24	3K	13	C
24	3K	14	A
24	3K	17	C
24	3K	19	G
24	3K	20	U
24	3K	21	A
24	3K	22	G

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Mol	Chain	Res	Type
24	3K	23	A
24	3K	26	A
24	3K	27	G
24	3K	33	U
24	3K	36	A
24	3K	42	C
24	3K	45	U
24	3K	46	7MG
24	3K	47	U
24	3K	48	C
24	3K	49	C
24	3K	50	U
24	3K	52	G
24	3K	55	PSU
24	3K	56	C
24	3K	59	U
24	3K	60	U
24	3K	65	G
24	3K	66	U
24	3K	71	G
24	3K	73	A
24	3K	74	C
24	3K	76	A
25	4K	14	A
25	4K	25	A
26	1H	7	G
26	1H	9	U
26	1H	15	G
26	1H	17	G
26	1H	29	U
26	1H	34	C
26	1H	35	G
26	1H	37	C
26	1H	45	G
26	1H	46	C
26	1H	49	A
26	1H	56	A
26	1H	63	U
26	1H	71	A
26	1H	72	U
26	1H	74	A
26	1H	75	G

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Mol	Chain	Res	Type
26	1H	85	G
26	1H	92	G
26	1H	93	C
26	1H	95	G
26	1H	102	G
26	1H	111	A
26	1H	118	A
26	1H	119	A
26	1H	120	U
26	1H	123	G
26	1H	125	G
26	1H	126	A
26	1H	133	C
26	1H	140	A
26	1H	155	C
26	1H	163	U
26	1H	164	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	200	U
26	1H	204	A
26	1H	214	G
26	1H	215	G
26	1H	216	A
26	1H	221	A
26	1H	222	A
26	1H	223	A
26	1H	224	G
26	1H	228	A
26	1H	229	A
26	1H	230	U
26	1H	233	A
26	1H	243	U
26	1H	248	G
26	1H	249	C
26	1H	252	G
26	1H	261	G
26	1H	263	C

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Mol	Chain	Res	Type
26	1H	264	C
26	1H	265	A
26	1H	266	G
26	1H	269	U
26	1H	270(M)	U
26	1H	270(N)	G
26	1H	270(O)	U
26	1H	270(P)	C
26	1H	270(V)	G
26	1H	271(C)	U
26	1H	271	G
26	1H	274	G
26	1H	275	G
26	1H	278	A
26	1H	279	C
26	1H	281	G
26	1H	299	A
26	1H	300	A
26	1H	311	A
26	1H	323	G
26	1H	324	A
26	1H	327	G
26	1H	329	G
26	1H	330	A
26	1H	331	A
26	1H	345	A
26	1H	346	A
26	1H	347	A
26	1H	352	G
26	1H	356	G
26	1H	363	G
26	1H	363(D)	G
26	1H	363(E)	U
26	1H	364	C
26	1H	370	G
26	1H	372	G
26	1H	384	U
26	1H	386	G
26	1H	388	G
26	1H	389	G
26	1H	396	G
26	1H	405	U

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Mol	Chain	Res	Type
26	1H	406	G
26	1H	411	G
26	1H	413	C
26	1H	428	A
26	1H	443	A
26	1H	444	C
26	1H	447	A
26	1H	448	U
26	1H	454	A
26	1H	455	C
26	1H	457	A
26	1H	458	G
26	1H	470	A
26	1H	471	A
26	1H	479	A
26	1H	480	A
26	1H	481	G
26	1H	482	A
26	1H	491	G
26	1H	494	G
26	1H	505	A
26	1H	508	G
26	1H	509	C
26	1H	510	C
26	1H	528	A
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	549	G
26	1H	556	G
26	1H	563	G
26	1H	564	C
26	1H	573	G
26	1H	575	A
26	1H	583	G
26	1H	586	A
26	1H	588	U
26	1H	592	G

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Mol	Chain	Res	Type
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	619	G
26	1H	621	A
26	1H	622	G
26	1H	627	A
26	1H	629	G
26	1H	636	G
26	1H	637	A
26	1H	640	C
26	1H	646	A
26	1H	649	G
26	1H	651	G
26	1H	654	A
26	1H	654(I)	C
26	1H	654(K)	C
26	1H	654(M)	C
26	1H	654(N)	G
26	1H	654(Q)	C
26	1H	654(T)	A
26	1H	664	C
26	1H	669	G
26	1H	676	A
26	1H	685	A
26	1H	686	G
26	1H	695	G
26	1H	701	G
26	1H	715	G
26	1H	717	G
26	1H	719	C
26	1H	723	G
26	1H	730	C
26	1H	731	C
26	1H	738	G
26	1H	752	A
26	1H	753	C
26	1H	765	G
26	1H	775	G

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Mol	Chain	Res	Type
26	1H	776	G
26	1H	777	A
26	1H	779	U
26	1H	782	A
26	1H	784	A
26	1H	785	G
26	1H	790	C
26	1H	791	C
26	1H	792	G
26	1H	801	G
26	1H	805	G
26	1H	806	C
26	1H	812	C
26	1H	827	U
26	1H	828	U
26	1H	836	G
26	1H	845	G
26	1H	846	C
26	1H	847	U
26	1H	859	G
26	1H	860	U
26	1H	866	A
26	1H	876	C
26	1H	879	G
26	1H	880	G
26	1H	881	G
26	1H	882	G
26	1H	883	G
26	1H	884	C
26	1H	885	C
26	1H	886	C
26	1H	887	A
26	1H	888	C
26	1H	890	A
26	1H	892	G
26	1H	893	C
26	1H	894	C
26	1H	895	U
26	1H	896	A
26	1H	897	C
26	1H	898	C
26	1H	900	A

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Mol	Chain	Res	Type
26	1H	901	A
26	1H	907	U
26	1H	910	A
26	1H	914	C
26	1H	917	A
26	1H	926	A
26	1H	932	G
26	1H	938	G
26	1H	941	A
26	1H	946	G
26	1H	957	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	983	A
26	1H	996	A
26	1H	997	G
26	1H	1003	G
26	1H	1010	A
26	1H	1011	G
26	1H	1012	U
26	1H	1013	C
26	1H	1015	G
26	1H	1016	G
26	1H	1020	A
26	1H	1022	G
26	1H	1023	U
26	1H	1025	G
26	1H	1026	U
26	1H	1027	A
26	1H	1033	U
26	1H	1046	A
26	1H	1047	G
26	1H	1051	G
26	1H	1054	A
26	1H	1057	A
26	1H	1058	U
26	1H	1060	U
26	1H	1061	U

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Mol	Chain	Res	Type
26	1H	1062	G
26	1H	1066	U
26	1H	1068	G
26	1H	1070	A
26	1H	1071	G
26	1H	1072	C
26	1H	1075	C
26	1H	1076	C
26	1H	1077	A
26	1H	1078	U
26	1H	1079	C
26	1H	1082	U
26	1H	1084	A
26	1H	1085	A
26	1H	1086	A
26	1H	1087	G
26	1H	1088	A
26	1H	1089	G
26	1H	1090	U
26	1H	1091	G
26	1H	1095	A
26	1H	1096	A
26	1H	1097	U
26	1H	1104	C
26	1H	1106	G
26	1H	1107	G
26	1H	1111	A
26	1H	1112	G
26	1H	1121	C
26	1H	1129	A
26	1H	1130	U
26	1H	1135	C
26	1H	1136	G
26	1H	1138	G
26	1H	1139	G
26	1H	1142	U
26	1H	1142(A)	A
26	1H	1151	G
26	1H	1155	A
26	1H	1156	A
26	1H	1165	U
26	1H	1169	G

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Mol	Chain	Res	Type
26	1H	1171	G
26	1H	1175	U
26	1H	1176	G
26	1H	1177	A
26	1H	1178	C
26	1H	1179	C
26	1H	1188	U
26	1H	1192	G
26	1H	1195	G
26	1H	1200	C
26	1H	1204	A
26	1H	1205	U
26	1H	1210	A
26	1H	1220	A
26	1H	1237	A
26	1H	1244	G
26	1H	1250	G
26	1H	1253	A
26	1H	1255	U
26	1H	1256	G
26	1H	1265	A
26	1H	1269	A
26	1H	1271	G
26	1H	1272	A
26	1H	1273	U
26	1H	1274	A
26	1H	1275	A
26	1H	1282	U
26	1H	1298	C
26	1H	1300	U
26	1H	1301	A
26	1H	1313	U
26	1H	1320	C
26	1H	1325	G
26	1H	1329	U
26	1H	1332	G
26	1H	1334	G
26	1H	1338	G
26	1H	1343	G
26	1H	1344	G
26	1H	1345	C
26	1H	1348	G

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Mol	Chain	Res	Type
26	1H	1349	A
26	1H	1352	U
26	1H	1359	A
26	1H	1360	A
26	1H	1365	A
26	1H	1368	G
26	1H	1370	C
26	1H	1374	G
26	1H	1378	A
26	1H	1379	A
26	1H	1380	G
26	1H	1384	A
26	1H	1385	G
26	1H	1386	C
26	1H	1416	G
26	1H	1417	C
26	1H	1420	U
26	1H	1421	G
26	1H	1427	A
26	1H	1428	C
26	1H	1430	C
26	1H	1444(A)	A
26	1H	1449	A
26	1H	1449(A)	G
26	1H	1453	A
26	1H	1454	U
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	1483	G
26	1H	1493	C
26	1H	1495	A
26	1H	1497	U
26	1H	1508	A
26	1H	1509	C
26	1H	1510	A
26	1H	1511	A
26	1H	1522	G

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Mol	Chain	Res	Type
26	1H	1534	G
26	1H	1535	U
26	1H	1536	A
26	1H	1537	C
26	1H	1538	G
26	1H	1540	G
26	1H	1543	A
26	1H	1545	A
26	1H	1546	C
26	1H	1547	C
26	1H	1548	C
26	1H	1552	G
26	1H	1554	A
26	1H	1558	A
26	1H	1559	G
26	1H	1560	G
26	1H	1569	A
26	1H	1578	U
26	1H	1582	C
26	1H	1585	C
26	1H	1586	A
26	1H	1587	A
26	1H	1606	G
26	1H	1608	A
26	1H	1609	A
26	1H	1610	A
26	1H	1613	G
26	1H	1617	C
26	1H	1618	A
26	1H	1633	G
26	1H	1647	G
26	1H	1648	C
26	1H	1651	G
26	1H	1674	G
26	1H	1678	G
26	1H	1694	C
26	1H	1695	G
26	1H	1728	G
26	1H	1729	A
26	1H	1730	U
26	1H	1731	G
26	1H	1746	G

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Mol	Chain	Res	Type
26	1H	1756	G
26	1H	1758	G
26	1H	1763	G
26	1H	1764	G
26	1H	1773	A
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	1816	G
26	1H	1819	A
26	1H	1826	G
26	1H	1829	A
26	1H	1839	G
26	1H	1847	A
26	1H	1848	A
26	1H	1858	G
26	1H	1860	G
26	1H	1870	C
26	1H	1889	A
26	1H	1899	G
26	1H	1900	A
26	1H	1906	G
26	1H	1914	C
26	1H	1919	A
26	1H	1926	U
26	1H	1929	G
26	1H	1930	G
26	1H	1931	U
26	1H	1938	A
26	1H	1952	A
26	1H	1955	U
26	1H	1960	A
26	1H	1963	U
26	1H	1964	G
26	1H	1965	C
26	1H	1967	C
26	1H	1969	A

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Mol	Chain	Res	Type
26	1H	1970	A
26	1H	1971	A
26	1H	1972	A
26	1H	1982	C
26	1H	1987	G
26	1H	1992	G
26	1H	1993	U
26	1H	2023	G
26	1H	2030	A
26	1H	2031	A
26	1H	2032	G
26	1H	2033	A
26	1H	2036	C
26	1H	2039	C
26	1H	2043	C
26	1H	2047	U
26	1H	2054	A
26	1H	2055	C
26	1H	2056	G
26	1H	2058	A
26	1H	2060	A
26	1H	2061	G
26	1H	2062	A
26	1H	2063	C
26	1H	2069	G
26	1H	2093	G
26	1H	2096	U
26	1H	2099	U
26	1H	2100	G
26	1H	2102	U
26	1H	2104	G
26	1H	2108	C
26	1H	2111	C
26	1H	2112	G
26	1H	2113	U
26	1H	2114	A
26	1H	2116	G
26	1H	2118	U
26	1H	2119	A
26	1H	2122	U
26	1H	2123	G
26	1H	2125	G

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Mol	Chain	Res	Type
26	1H	2126	A
26	1H	2127	G
26	1H	2128	C
26	1H	2129	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	2140	C
26	1H	2145	C
26	1H	2146	C
26	1H	2147	G
26	1H	2148	G
26	1H	2151	G
26	1H	2154	G
26	1H	2155	G
26	1H	2156	G
26	1H	2157	G
26	1H	2158	A
26	1H	2161	C
26	1H	2163	C
26	1H	2166	G
26	1H	2167	U
26	1H	2168	G
26	1H	2170	A
26	1H	2171	A
26	1H	2172	U
26	1H	2173	A
26	1H	2174	C
26	1H	2176	A
26	1H	2177	C
26	1H	2178	C
26	1H	2181	G
26	1H	2190	G
26	1H	2192	G
26	1H	2198	A
26	1H	2210	G
26	1H	2211	G
26	1H	2213	U

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Mol	Chain	Res	Type
26	1H	2215	G
26	1H	2225	A
26	1H	2226	C
26	1H	2238	G
26	1H	2239	G
26	1H	2246	G
26	1H	2253	G
26	1H	2269	A
26	1H	2275	C
26	1H	2278	A
26	1H	2283	C
26	1H	2287	A
26	1H	2288	A
26	1H	2291	U
26	1H	2298	A
26	1H	2305	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	2319	G
26	1H	2320	A
26	1H	2321	G
26	1H	2325	G
26	1H	2327	A
26	1H	2334	G
26	1H	2336	A
26	1H	2337	G
26	1H	2341	G
26	1H	2343	C
26	1H	2344	U
26	1H	2347	C
26	1H	2349	G
26	1H	2350	C
26	1H	2361	A
26	1H	2376	A
26	1H	2377	A
26	1H	2379	G
26	1H	2383	G

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Mol	Chain	Res	Type
26	1H	2385	C
26	1H	2388	A
26	1H	2389	G
26	1H	2396	G
26	1H	2402	C
26	1H	2403	C
26	1H	2406	U
26	1H	2413	G
26	1H	2423	U
26	1H	2424	C
26	1H	2425	A
26	1H	2428	G
26	1H	2429	G
26	1H	2430	A
26	1H	2431	U
26	1H	2435	A
26	1H	2439	A
26	1H	2441	C
26	1H	2447	G
26	1H	2448	A
26	1H	2464	C
26	1H	2468	G
26	1H	2469	A
26	1H	2470	G
26	1H	2474	C
26	1H	2475	C
26	1H	2476	A
26	1H	2478	A
26	1H	2482	G
26	1H	2484	G
26	1H	2502	G
26	1H	2505	G
26	1H	2506	U
26	1H	2513	G
26	1H	2518	A
26	1H	2520	C
26	1H	2529	G
26	1H	2531	A
26	1H	2534	A
26	1H	2548	G
26	1H	2554	U
26	1H	2566	A

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Mol	Chain	Res	Type
26	1H	2567	G
26	1H	2573	C
26	1H	2577	A
26	1H	2582	G
26	1H	2584	U
26	1H	2585	U
26	1H	2602	A
26	1H	2609	U
26	1H	2611	U
26	1H	2612	C
26	1H	2615	U
26	1H	2629	A
26	1H	2630	G
26	1H	2631	G
26	1H	2634	G
26	1H	2636	U
26	1H	2637	U
26	1H	2656	U
26	1H	2657	A
26	1H	2661	G
26	1H	2665	A
26	1H	2666	C
26	1H	2673	G
26	1H	2682	U
26	1H	2686	G
26	1H	2687	U
26	1H	2689	U
26	1H	2690	C
26	1H	2702	U
26	1H	2703	C
26	1H	2704	C
26	1H	2707	G
26	1H	2711	A
26	1H	2712(A)	A
26	1H	2713	A
26	1H	2714	G
26	1H	2715	C
26	1H	2718	G
26	1H	2726	U
26	1H	2729	G
26	1H	2733	A
26	1H	2734	A

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Mol	Chain	Res	Type
26	1H	2742	C
26	1H	2744	G
26	1H	2756	U
26	1H	2757	A
26	1H	2759	G
26	1H	2763	G
26	1H	2764	A
26	1H	2765	A
26	1H	2766	G
26	1H	2778	A
26	1H	2779	U
26	1H	2781	A
26	1H	2787	C
26	1H	2789	C
26	1H	2790	A
26	1H	2791	C
26	1H	2793	G
26	1H	2794	C
26	1H	2795	G
26	1H	2797	U
26	1H	2798	C
26	1H	2799	A
26	1H	2801	A
26	1H	2802	G
26	1H	2803	C
26	1H	2805	G
26	1H	2808	U
26	1H	2813	A
26	1H	2818	G
26	1H	2820	A
26	1H	2821	A
26	1H	2830	G
26	1H	2831	G
26	1H	2833	G
26	1H	2834	G
26	1H	2835	A
26	1H	2849	U
26	1H	2850	A
26	1H	2856	C
26	1H	2866	U
26	1H	2872	G
26	1H	2873	A

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Mol	Chain	Res	Type
26	1H	2874	C
26	1H	2879	C
26	1H	2884	U
26	1H	2887	U
26	1H	2892	A
26	1H	2893	G
26	1H	2894	G
26	1H	2895	U
27	16	0	A
27	16	1	U
27	16	4	C
27	16	7	G
27	16	9	G
27	16	13	A
27	16	15	A
27	16	25	A
27	16	31	C
27	16	33	G
27	16	35	U
27	16	39	A
27	16	45	A
27	16	56	G
27	16	65	C
27	16	66	A
27	16	73	A
27	16	81	G
27	16	82	G
27	16	85	G
27	16	95	U
27	16	96	G
27	16	105	G
27	16	109	G
27	16	115	G
1	1G	5	U
1	1G	7	G
1	1G	9	G
1	1G	14	U
1	1G	22	G
1	1G	32	A
1	1G	39	G
1	1G	41	G
1	1G	42	G

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Mol	Chain	Res	Type
1	1G	47	C
1	1G	48	C
1	1G	50	A
1	1G	51	A
1	1G	65	U
1	1G	73	G
1	1G	75	C
1	1G	76	G
1	1G	79	G
1	1G	80	G
1	1G	90	C
1	1G	91	C
1	1G	95	G
1	1G	108	G
1	1G	116	A
1	1G	121	C
1	1G	129	U
1	1G	131	C
1	1G	143	A
1	1G	144	G
1	1G	154	C
1	1G	162	A
1	1G	163	C
1	1G	168	G
1	1G	173	U
1	1G	174	C
1	1G	182	U
1	1G	186	C
1	1G	187	C
1	1G	188	U
1	1G	189	U
1	1G	190	G
1	1G	191(A)	G
1	1G	191(D)	U
1	1G	195	A
1	1G	197	A
1	1G	198	G
1	1G	201	C
1	1G	208	U
1	1G	209	U
1	1G	210	U
1	1G	216	G

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Mol	Chain	Res	Type
1	1G	231	G
1	1G	242	C
1	1G	243	A
1	1G	244	U
1	1G	247	G
1	1G	250	A
1	1G	251	G
1	1G	266	G
1	1G	267	C
1	1G	275	G
1	1G	281	G
1	1G	289	G
1	1G	298	A
1	1G	299	G
1	1G	321	A
1	1G	328	C
1	1G	329	A
1	1G	330	C
1	1G	332	G
1	1G	345	C
1	1G	346	G
1	1G	349	A
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	365	U
1	1G	366	C
1	1G	367	U
1	1G	372	C
1	1G	373	A
1	1G	375	U
1	1G	382	A
1	1G	384	G
1	1G	388	G
1	1G	398	C
1	1G	406	G
1	1G	409	G
1	1G	411	A
1	1G	412	A

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Mol	Chain	Res	Type
1	1G	413	G
1	1G	414	A
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	436	C
1	1G	439	A
1	1G	440	A
1	1G	449	C
1	1G	452	A
1	1G	454	C
1	1G	458	C
1	1G	466	C
1	1G	467	G
1	1G	475	G
1	1G	478	A
1	1G	482	A
1	1G	483	C
1	1G	484	G
1	1G	485	G
1	1G	486	U
1	1G	496	A
1	1G	497	U
1	1G	504	C
1	1G	505	G
1	1G	511	C
1	1G	518	C
1	1G	527	G
1	1G	530	G
1	1G	531	U
1	1G	532	A
1	1G	533	A
1	1G	536	C
1	1G	546	G
1	1G	547	A
1	1G	553	A
1	1G	554	C
1	1G	559	A
1	1G	561	U

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Mol	Chain	Res	Type
1	1G	562	C
1	1G	564	C
1	1G	566	G
1	1G	572	A
1	1G	573	A
1	1G	576	G
1	1G	577	G
1	1G	581	G
1	1G	600	C
1	1G	607	A
1	1G	616	G
1	1G	618	C
1	1G	629	G
1	1G	630	G
1	1G	631	G
1	1G	632	A
1	1G	633	G
1	1G	635	G
1	1G	643	C
1	1G	651	C
1	1G	652	U
1	1G	653	A
1	1G	660	G
1	1G	665	A
1	1G	687	A
1	1G	688	G
1	1G	704	A
1	1G	723	U
1	1G	724	G
1	1G	731	G
1	1G	734	G
1	1G	746	A
1	1G	749	C
1	1G	752	G
1	1G	755	G
1	1G	767	A
1	1G	769	G
1	1G	771	G
1	1G	776	G
1	1G	777	A
1	1G	788	U
1	1G	792	A

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Mol	Chain	Res	Type
1	1G	793	U
1	1G	794	A
1	1G	803	G
1	1G	804	U
1	1G	816	A
1	1G	817	C
1	1G	818	G
1	1G	821	G
1	1G	828	A
1	1G	842	C
1	1G	843	U
1	1G	848	C
1	1G	859	A
1	1G	867	G
1	1G	873	A
1	1G	884	U
1	1G	885	G
1	1G	913	A
1	1G	914	A
1	1G	916	G
1	1G	919	A
1	1G	926	G
1	1G	927	G
1	1G	934	C
1	1G	935	A
1	1G	936	C
1	1G	953	G
1	1G	954	G
1	1G	955	U
1	1G	958	A
1	1G	960	U
1	1G	961	U
1	1G	963	G
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

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Mol	Chain	Res	Type
1	1G	980	C
1	1G	981	U
1	1G	991	U
1	1G	992	U
1	1G	993	G
1	1G	995	C
1	1G	1003	G
1	1G	1004	A
1	1G	1006	C
1	1G	1009	G
1	1G	1016	A
1	1G	1017	G
1	1G	1023	G
1	1G	1024	G
1	1G	1025	U
1	1G	1026	G
1	1G	1028	C
1	1G	1028(B)	C
1	1G	1029	G
1	1G	1031	G
1	1G	1032(A)	G
1	1G	1033	G
1	1G	1034	G
1	1G	1035	A
1	1G	1036	G
1	1G	1038	C
1	1G	1040	U
1	1G	1041	A
1	1G	1042	G
1	1G	1043	C
1	1G	1045	C
1	1G	1046	A
1	1G	1053	G
1	1G	1054	C
1	1G	1055	A
1	1G	1056	U
1	1G	1064	G
1	1G	1066	C
1	1G	1081	G
1	1G	1082	G
1	1G	1092	A
1	1G	1094	G

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Mol	Chain	Res	Type
1	1G	1095	U
1	1G	1096	C
1	1G	1101	A
1	1G	1111	A
1	1G	1118	C
1	1G	1124	G
1	1G	1125	U
1	1G	1127	G
1	1G	1129	C
1	1G	1130	A
1	1G	1131	G
1	1G	1133	G
1	1G	1135	U
1	1G	1137	C
1	1G	1138	G
1	1G	1139	G
1	1G	1142	G
1	1G	1145	C
1	1G	1146	A
1	1G	1154	G
1	1G	1157	A
1	1G	1158	C
1	1G	1159	U
1	1G	1160	G
1	1G	1161	C
1	1G	1170	A
1	1G	1171	G
1	1G	1177	G
1	1G	1178	G
1	1G	1181	G
1	1G	1183	A
1	1G	1185	G
1	1G	1188	A
1	1G	1191	A
1	1G	1193	G
1	1G	1196	U
1	1G	1198	G
1	1G	1200	C
1	1G	1201	A
1	1G	1202	G
1	1G	1208	C
1	1G	1211	U

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Mol	Chain	Res	Type
1	1G	1212	U
1	1G	1213	A
1	1G	1214	C
1	1G	1225	A
1	1G	1227	A
1	1G	1232	U
1	1G	1238	A
1	1G	1240	U
1	1G	1241	G
1	1G	1250	A
1	1G	1256	A
1	1G	1257	U
1	1G	1258	G
1	1G	1260	C
1	1G	1263	C
1	1G	1267	C
1	1G	1269	A
1	1G	1274	G
1	1G	1275	A
1	1G	1278	U
1	1G	1279	A
1	1G	1280	A
1	1G	1286	A
1	1G	1287	A
1	1G	1293	G
1	1G	1294	G
1	1G	1295	G
1	1G	1296	C
1	1G	1297	C
1	1G	1298	C
1	1G	1299	A
1	1G	1300	G
1	1G	1301	U
1	1G	1303	C
1	1G	1305	G
1	1G	1313	U
1	1G	1320	C
1	1G	1322	C
1	1G	1323	G
1	1G	1331	G
1	1G	1335	C
1	1G	1336	C

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Mol	Chain	Res	Type
1	1G	1338	G
1	1G	1339	A
1	1G	1340	A
1	1G	1346	A
1	1G	1347	G
1	1G	1348	U
1	1G	1353	G
1	1G	1360	A
1	1G	1362(A)	C
1	1G	1363	A
1	1G	1364	U
1	1G	1365	G
1	1G	1370	G
1	1G	1377	A
1	1G	1378	C
1	1G	1379	G
1	1G	1382	C
1	1G	1394	A
1	1G	1396	A
1	1G	1397	C
1	1G	1398	A
1	1G	1400	C
1	1G	1401	G
1	1G	1419	G
1	1G	1442	G
1	1G	1443	G
1	1G	1446	A
1	1G	1450	U
1	1G	1451	A
1	1G	1452	C
1	1G	1453	G
1	1G	1454	G
1	1G	1466	C
1	1G	1490	C
1	1G	1491	G
1	1G	1492	A
1	1G	1494	G
1	1G	1496	C
1	1G	1499	A
1	1G	1502	A
1	1G	1503	A
1	1G	1504	G

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Mol	Chain	Res	Type
1	1G	1505	G
1	1G	1506	U
1	1G	1507	A
1	1G	1508	G
1	1G	1509	C
1	1G	1517	G
1	1G	1519	A
1	1G	1520	G
1	1G	1525	G
1	1G	1529	G
1	1G	1530	G
56	2L	2	G
56	2L	6	G
56	2L	7	G
56	2L	8	4SU
56	2L	9	G
56	2L	16	C
56	2L	17	C
56	2L	19	G
56	2L	20	G
56	2L	21	U
56	2L	22	A
56	2L	32	G
56	2L	47	7MG
56	2L	48	U
56	2L	49	C
56	2L	50	G
56	2L	51	U
56	2L	53	G
56	2L	54	G
56	2L	57	C
56	2L	63	C
56	2L	77	A
24	3L	2	C
24	3L	5	G
24	3L	6	G
24	3L	9	A
24	3L	13	C
24	3L	16	U
24	3L	17	C
24	3L	19	G
24	3L	21	A

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Mol	Chain	Res	Type
24	3L	22	G
24	3L	23	A
24	3L	27	G
24	3L	30	G
24	3L	31	A
24	3L	33	U
24	3L	34	G
24	3L	36	A
24	3L	37	MIA
24	3L	38	A
24	3L	39	PSU
24	3L	40	C
24	3L	42	C
24	3L	44	G
24	3L	45	U
24	3L	46	7MG
24	3L	47	U
24	3L	49	C
24	3L	50	U
24	3L	52	G
24	3L	58	A
24	3L	59	U
24	3L	61	C
24	3L	62	C
24	3L	64	A
24	3L	65	G
24	3L	70	G
24	3L	72	C
24	3L	73	A
24	3L	76	A
25	4L	14	A
25	4L	15	A
25	4L	19	A
25	4L	20	A
26	14	6	A
26	14	9	U
26	14	15	G
26	14	24	G
26	14	34	C
26	14	35	G
26	14	43	G
26	14	46	C

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Mol	Chain	Res	Type
26	14	49	A
26	14	50	U
26	14	54	G
26	14	55	G
26	14	58	G
26	14	61	G
26	14	71	A
26	14	72	U
26	14	74	A
26	14	75	G
26	14	82	G
26	14	84	A
26	14	93	C
26	14	95	G
26	14	99	U
26	14	102	G
26	14	112	U
26	14	116	C
26	14	118	A
26	14	119	A
26	14	120	U
26	14	121	G
26	14	125	G
26	14	129	C
26	14	131	G
26	14	133	C
26	14	137(A)	G
26	14	138	G
26	14	139	G
26	14	140	A
26	14	153	C
26	14	154	G
26	14	155	C
26	14	161	U
26	14	162	U
26	14	171	G
26	14	173	G
26	14	174	C
26	14	181	A
26	14	182	A
26	14	188	G
26	14	196	A

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Mol	Chain	Res	Type
26	14	197	A
26	14	199	A
26	14	205	G
26	14	209	C
26	14	213	A
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	228	A
26	14	229	A
26	14	233	A
26	14	241	A
26	14	248	G
26	14	249	C
26	14	250	G
26	14	252	G
26	14	267	C
26	14	270(J)	G
26	14	270(K)	C
26	14	270(L)	U
26	14	270(M)	U
26	14	270(N)	G
26	14	270(O)	U
26	14	270(P)	C
26	14	271(B)	G
26	14	271	G
26	14	273(C)	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	288	C
26	14	289	A
26	14	299	A
26	14	303	U
26	14	308	G

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Mol	Chain	Res	Type
26	14	311	A
26	14	312	G
26	14	324	A
26	14	327	G
26	14	329	G
26	14	330	A
26	14	332	A
26	14	339	U
26	14	352	G
26	14	353	G
26	14	363	G
26	14	363(D)	G
26	14	363(E)	U
26	14	363(F)	A
26	14	372	G
26	14	386	G
26	14	395	U
26	14	405	U
26	14	406	G
26	14	411	G
26	14	412	A
26	14	413	C
26	14	421	U
26	14	428	A
26	14	434	U
26	14	436	C
26	14	443	A
26	14	444	C
26	14	447	A
26	14	448	U
26	14	449	A
26	14	451	C
26	14	454	A
26	14	455	C
26	14	457	A
26	14	470	A
26	14	471	A
26	14	481	G
26	14	483	A
26	14	501	A
26	14	505	A
26	14	507	A

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Mol	Chain	Res	Type
26	14	509	C
26	14	527	C
26	14	528	A
26	14	529	A
26	14	530	G
26	14	531	C
26	14	532	A
26	14	533	G
26	14	537	C
26	14	546	C
26	14	549	G
26	14	550	G
26	14	556	G
26	14	563	G
26	14	570	G
26	14	573	G
26	14	574	C
26	14	575	A
26	14	584	C
26	14	602	G
26	14	603	A
26	14	604	G
26	14	607	U
26	14	609(A)	G
26	14	614	U
26	14	615	G
26	14	617	G
26	14	618(A)	C
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(E)	C
26	14	654(G)	C
26	14	654(H)	G
26	14	654(I)	C

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Mol	Chain	Res	Type
26	14	654(K)	C
26	14	654(L)	G
26	14	654(Q)	C
26	14	654(T)	A
26	14	656	G
26	14	665	C
26	14	669	G
26	14	678	C
26	14	682	G
26	14	686	G
26	14	708	C
26	14	709	U
26	14	715	G
26	14	717	G
26	14	722	A
26	14	730	C
26	14	740	U
26	14	758	C
26	14	764	A
26	14	775	G
26	14	776	G
26	14	779	U
26	14	782	A
26	14	784	A
26	14	785	G
26	14	788	A
26	14	791	C
26	14	792	G
26	14	797	C
26	14	805	G
26	14	812	C
26	14	814	C
26	14	819	A
26	14	827	U
26	14	828	U
26	14	830	G
26	14	832	G
26	14	845	G
26	14	846	C
26	14	847	U
26	14	848	G
26	14	856	C

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Mol	Chain	Res	Type
26	14	859	G
26	14	865	C
26	14	868	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	890	A
26	14	893	C
26	14	894	C
26	14	896	A
26	14	897	C
26	14	899	A
26	14	900	A
26	14	901	A
26	14	903	C
26	14	904	C
26	14	907	U
26	14	910	A
26	14	911	A
26	14	914	C
26	14	917	A
26	14	918	A
26	14	920	G
26	14	924	C
26	14	926	A
26	14	932	G
26	14	933	A
26	14	934	G
26	14	935	C
26	14	938	G
26	14	941	A
26	14	945	A
26	14	946	G
26	14	947	G
26	14	957	A

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Mol	Chain	Res	Type
26	14	958	U
26	14	959	A
26	14	961	C
26	14	974	G
26	14	974(A)	C
26	14	978	G
26	14	980	A
26	14	981	A
26	14	982	C
26	14	983	A
26	14	989	G
26	14	990	A
26	14	991	C
26	14	993	G
26	14	996	A
26	14	999	U
26	14	1008	C
26	14	1010	A
26	14	1012	U
26	14	1013	C
26	14	1017	G
26	14	1020	A
26	14	1021	A
26	14	1022	G
26	14	1023	U
26	14	1025	G
26	14	1026	U
26	14	1034	G
26	14	1037	G
26	14	1044	G
26	14	1045	A
26	14	1046	A
26	14	1047	G
26	14	1048	A
26	14	1049	C
26	14	1051	G
26	14	1054	A
26	14	1056	G
26	14	1057	A
26	14	1059	G
26	14	1060	U
26	14	1062	G

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Mol	Chain	Res	Type
26	14	1063	G
26	14	1065	U
26	14	1067	A
26	14	1068	G
26	14	1069	A
26	14	1070	A
26	14	1071	G
26	14	1072	C
26	14	1073	A
26	14	1091	G
26	14	1093	G
26	14	1095	A
26	14	1096	A
26	14	1098	A
26	14	1099	G
26	14	1104	C
26	14	1105	U
26	14	1111	A
26	14	1112	G
26	14	1122	G
26	14	1129	A
26	14	1130	U
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
26	14	1149	G
26	14	1155	A
26	14	1156	A
26	14	1168	G
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	1183	G
26	14	1190	G
26	14	1196	C
26	14	1204	A

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Mol	Chain	Res	Type
26	14	1205	U
26	14	1208	C
26	14	1211	U
26	14	1212	G
26	14	1214	A
26	14	1220	A
26	14	1230	C
26	14	1236	G
26	14	1244	G
26	14	1248	G
26	14	1250	G
26	14	1253	A
26	14	1256	G
26	14	1271	G
26	14	1272	A
26	14	1273	U
26	14	1274	A
26	14	1275	A
26	14	1286	A
26	14	1300	U
26	14	1301	A
26	14	1302	A
26	14	1313	U
26	14	1314	C
26	14	1319	G
26	14	1320	C
26	14	1321	A
26	14	1324	G
26	14	1329	U
26	14	1332	G
26	14	1338	G
26	14	1342	A
26	14	1343	G
26	14	1345	C
26	14	1349	A
26	14	1359	A
26	14	1360	A
26	14	1365	A
26	14	1368	G
26	14	1369	G
26	14	1370	C
26	14	1380	G

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Mol	Chain	Res	Type
26	14	1382	G
26	14	1383	C
26	14	1384	A
26	14	1385	G
26	14	1386	C
26	14	1395	A
26	14	1406	U
26	14	1407	C
26	14	1408	C
26	14	1414	G
26	14	1416	G
26	14	1417	C
26	14	1419	A
26	14	1420	U
26	14	1421	G
26	14	1425	G
26	14	1427	A
26	14	1428	C
26	14	1436	G
26	14	1437	C
26	14	1444(A)	A
26	14	1445	C
26	14	1449	A
26	14	1449(A)	G
26	14	1455	G
26	14	1458	C
26	14	1459	G
26	14	1460	A
26	14	1461	G
26	14	1467	C
26	14	1471	A
26	14	1474	C
26	14	1475	G
26	14	1478	G
26	14	1483	G
26	14	1489	U
26	14	1490	A
26	14	1493	C
26	14	1494	A
26	14	1500	G
26	14	1508	A
26	14	1509	C

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Mol	Chain	Res	Type
26	14	1510	A
26	14	1515	C
26	14	1516	U
26	14	1522	G
26	14	1524	G
26	14	1528	A
26	14	1533	C
26	14	1534	G
26	14	1535	U
26	14	1537	C
26	14	1538	G
26	14	1543	A
26	14	1544	C
26	14	1547	C
26	14	1558	A
26	14	1559	G
26	14	1560	G
26	14	1565	C
26	14	1566	A
26	14	1569	A
26	14	1570	A
26	14	1576	U
26	14	1578	U
26	14	1585	C
26	14	1586	A
26	14	1587	A
26	14	1588	C
26	14	1593	G
26	14	1594	G
26	14	1595	G
26	14	1598	C
26	14	1599	C
26	14	1608	A
26	14	1609	A
26	14	1610	A
26	14	1613	G
26	14	1616	A
26	14	1618	A
26	14	1619	G
26	14	1621	U
26	14	1625	C
26	14	1627	G

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Mol	Chain	Res	Type
26	14	1635	G
26	14	1638	C
26	14	1640	C
26	14	1641	A
26	14	1647	G
26	14	1648	C
26	14	1669	A
26	14	1672	C
26	14	1674	G
26	14	1682	G
26	14	1693	U
26	14	1695	G
26	14	1700	A
26	14	1701	A
26	14	1703	G
26	14	1718	G
26	14	1725	G
26	14	1726	G
26	14	1728	G
26	14	1729	A
26	14	1730	U
26	14	1731	G
26	14	1735	C
26	14	1742	C
26	14	1743	G
26	14	1750	G
26	14	1756	G
26	14	1762	A
26	14	1763	G
26	14	1764	G
26	14	1773	A
26	14	1780	A
26	14	1782	C
26	14	1788	C
26	14	1791	A
26	14	1800	C
26	14	1801	G
26	14	1802	A
26	14	1812	A
26	14	1816	G
26	14	1820	U
26	14	1828	G

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Mol	Chain	Res	Type
26	14	1829	A
26	14	1830	C
26	14	1839	G
26	14	1847	A
26	14	1848	A
26	14	1856	G
26	14	1858	G
26	14	1878	G
26	14	1888	G
26	14	1889	A
26	14	1903	G
26	14	1905	C
26	14	1906	G
26	14	1911	U
26	14	1913	A
26	14	1917	U
26	14	1919	A
26	14	1920	C
26	14	1929	G
26	14	1930	G
26	14	1936	A
26	14	1938	A
26	14	1945	G
26	14	1955	U
26	14	1963	U
26	14	1966	A
26	14	1967	C
26	14	1970	A
26	14	1971	A
26	14	1972	A
26	14	1991	U
26	14	1992	G
26	14	1993	U
26	14	2005	A
26	14	2019	A
26	14	2023	G
26	14	2031	A
26	14	2032	G
26	14	2033	A
26	14	2043	C
26	14	2044	C
26	14	2049	G

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Mol	Chain	Res	Type
26	14	2053	G
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	2082	A
26	14	2084	C
26	14	2086	U
26	14	2096	U
26	14	2099	U
26	14	2100	G
26	14	2108	C
26	14	2111	C
26	14	2112	G
26	14	2113	U
26	14	2114	A
26	14	2117	A
26	14	2118	U
26	14	2119	A
26	14	2127	G
26	14	2128	C
26	14	2131	G
26	14	2132	U
26	14	2133	G
26	14	2134	A
26	14	2135	A
26	14	2136	C
26	14	2137	C
26	14	2140	C
26	14	2145	C
26	14	2146	C
26	14	2147	G
26	14	2152	G
26	14	2157	G
26	14	2158	A
26	14	2160	G
26	14	2161	C

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Mol	Chain	Res	Type
26	14	2165	G
26	14	2166	G
26	14	2169	A
26	14	2170	A
26	14	2171	A
26	14	2172	U
26	14	2173	A
26	14	2174	C
26	14	2182	G
26	14	2188	C
26	14	2189	U
26	14	2191	G
26	14	2192	G
26	14	2198	A
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	2236	C
26	14	2238	G
26	14	2239	G
26	14	2251	G
26	14	2252	G
26	14	2261	C
26	14	2267	A
26	14	2268	A
26	14	2273	A
26	14	2275	C
26	14	2276	G
26	14	2278	A
26	14	2283	C
26	14	2286	A
26	14	2287	A
26	14	2288	A
26	14	2291	U
26	14	2294	C
26	14	2305	A
26	14	2307	G
26	14	2308	G

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Mol	Chain	Res	Type
26	14	2309	A
26	14	2310	A
26	14	2311	A
26	14	2318	G
26	14	2319	G
26	14	2320	A
26	14	2322	A
26	14	2324	C
26	14	2325	G
26	14	2326	C
26	14	2333	A
26	14	2334	G
26	14	2335	A
26	14	2336	A
26	14	2342	C
26	14	2343	C
26	14	2345	G
26	14	2346	A
26	14	2347	C
26	14	2350	C
26	14	2355	C
26	14	2372	G
26	14	2376	A
26	14	2381	C
26	14	2383	G
26	14	2385	C
26	14	2388	A
26	14	2389	G
26	14	2390	U
26	14	2391	G
26	14	2392	A
26	14	2393	A
26	14	2394	C
26	14	2401	U
26	14	2402	C
26	14	2403	C
26	14	2406	U
26	14	2407	G
26	14	2411	A
26	14	2414	G
26	14	2422	A
26	14	2423	U

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Mol	Chain	Res	Type
26	14	2425	A
26	14	2429	G
26	14	2430	A
26	14	2431	U
26	14	2439	A
26	14	2440	C
26	14	2441	C
26	14	2446	G
26	14	2448	A
26	14	2450	A
26	14	2452	C
26	14	2458	G
26	14	2459	A
26	14	2468	G
26	14	2469	A
26	14	2470	G
26	14	2475	C
26	14	2476	A
26	14	2478	A
26	14	2480	C
26	14	2481	G
26	14	2482	G
26	14	2487	G
26	14	2496	C
26	14	2502	G
26	14	2504	U
26	14	2505	G
26	14	2506	U
26	14	2518	A
26	14	2526	G
26	14	2527	C
26	14	2528	U
26	14	2529	G
26	14	2542	A
26	14	2543	G
26	14	2546	U
26	14	2554	U
26	14	2556	C
26	14	2564	A
26	14	2566	A
26	14	2567	G
26	14	2569	G

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Mol	Chain	Res	Type
26	14	2573	C
26	14	2574	G
26	14	2581	G
26	14	2584	U
26	14	2585	U
26	14	2587	A
26	14	2598	A
26	14	2599	G
26	14	2601	C
26	14	2602	A
26	14	2603	G
26	14	2609	U
26	14	2611	U
26	14	2612	C
26	14	2613	U
26	14	2615	U
26	14	2630	G
26	14	2632	A
26	14	2636	U
26	14	2638	G
26	14	2639	A
26	14	2654	A
26	14	2655	G
26	14	2665	A
26	14	2667	C
26	14	2673	G
26	14	2679	A
26	14	2689	U
26	14	2690	C
26	14	2691	C
26	14	2698	U
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	2744	G
26	14	2750	A
26	14	2751	G

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Mol	Chain	Res	Type
26	14	2752	C
26	14	2754	U
26	14	2758	A
26	14	2761	G
26	14	2762	G
26	14	2763	G
26	14	2764	A
26	14	2765	A
26	14	2766	G
26	14	2769	C
26	14	2777	G
26	14	2778	A
26	14	2779	U
26	14	2786	U
26	14	2787	C
26	14	2788	C
26	14	2789	C
26	14	2790	A
26	14	2791	C
26	14	2804	C
26	14	2807	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	2836	U
26	14	2849	U
26	14	2860	A
26	14	2872	G
26	14	2873	A
26	14	2874	C
26	14	2879	C
26	14	2880	C
26	14	2883	A
26	14	2886	G
26	14	2892	A
26	14	2894	G
27	1J	0	A

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Mol	Chain	Res	Type
27	1J	8	U
27	1J	13	A
27	1J	15	A
27	1J	16	G
27	1J	19	G
27	1J	20	C
27	1J	22	U
27	1J	24	G
27	1J	25	A
27	1J	26	A
27	1J	29	A
27	1J	30	C
27	1J	33	G
27	1J	35	U
27	1J	39	A
27	1J	40	U
27	1J	41	U
27	1J	42	C
27	1J	45	A
27	1J	47	C
27	1J	52	A
27	1J	53	A
27	1J	58	A
27	1J	60	C
27	1J	67	G
27	1J	73	A
27	1J	75	G
27	1J	76	G
27	1J	88	C
27	1J	89	G
27	1J	89(A)	A
27	1J	90	C
27	1J	94	C
27	1J	101	A
27	1J	108	C
27	1J	109	G
27	1J	113	C
27	1J	114	G

All (191) RNA pucker outliers are listed below:

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Mol	Chain	Res	Type

Mol	Chain	Res	Type
1	13	5	U
1	13	50	A
1	13	190	G
1	13	244	U
1	13	266	G
1	13	412	A
1	13	422	C
1	13	429	U
1	13	484	G
1	13	509	A
1	13	560	U
1	13	687	A
1	13	703	G
1	13	748	C
1	13	758	G
1	13	793	U
1	13	812	C
1	13	991	U
1	13	992	U
1	13	1027	C
1	13	1053	G
1	13	1054	C
1	13	1064	G
1	13	1065	U
1	13	1126	U
1	13	1157	A
1	13	1183	A
1	13	1211	U
1	13	1256	A
1	13	1281	U
1	13	1285	A
1	13	1302	U
1	13	1336	C
1	13	1363	A
1	13	1452	C
1	13	1498	U
1	13	1504	G
1	13	1529	G
22	1K	9	G
22	1K	49	C
22	1K	59	A

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Mol	Chain	Res	Type
23	2K	48	U
24	3K	1	G
24	3K	2	C
24	3K	18	G
24	3K	20	U
24	3K	46	7MG
24	3K	58	A
26	1H	33	U
26	1H	125	G
26	1H	196	A
26	1H	199	A
26	1H	222	A
26	1H	229	A
26	1H	404	C
26	1H	457	A
26	1H	508	G
26	1H	668	G
26	1H	685	A
26	1H	752	A
26	1H	800	A
26	1H	845	G
26	1H	880	G
26	1H	1022	G
26	1H	1026	U
26	1H	1045	A
26	1H	1060	U
26	1H	1085	A
26	1H	1095	A
26	1H	1110	G
26	1H	1178	C
26	1H	1273	U
26	1H	1299	G
26	1H	1312	U
26	1H	1416	G
26	1H	1420	U
26	1H	1508	A
26	1H	1558	A
26	1H	1608	A
26	1H	1609	A
26	1H	1617	C
26	1H	1694	C
26	1H	1781	C

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Mol	Chain	Res	Type
26	1H	1799	G
26	1H	1800	C
26	1H	2060	A
26	1H	2062	A
26	1H	2157	G
26	1H	2167	U
26	1H	2171	A
26	1H	2213	U
26	1H	2447	G
26	1H	2468	G
26	1H	2475	C
26	1H	2481	G
26	1H	2566	A
26	1H	2611	U
26	1H	2689	U
26	1H	2756	U
26	1H	2873	A
1	1G	64	G
1	1G	115	G
1	1G	197	A
1	1G	243	A
1	1G	250	A
1	1G	266	G
1	1G	274	A
1	1G	328	C
1	1G	345	C
1	1G	350	G
1	1G	412	A
1	1G	413	G
1	1G	421	U
1	1G	429	U
1	1G	560	U
1	1G	632	A
1	1G	687	A
1	1G	748	C
1	1G	884	U
1	1G	913	A
1	1G	992	U
1	1G	1023	G
1	1G	1025	U
1	1G	1053	G
1	1G	1126	U

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Mol	Chain	Res	Type
1	1G	1128	C
1	1G	1145	C
1	1G	1157	A
1	1G	1200	C
1	1G	1285	A
1	1G	1300	G
1	1G	1346	A
1	1G	1449	C
1	1G	1453	G
1	1G	1498	U
1	1G	1506	U
56	2L	19	G
56	2L	47	7MG
56	2L	48	U
24	3L	16	U
24	3L	20	U
25	4L	13	A
26	14	34	C
26	14	49	A
26	14	128	C
26	14	196	A
26	14	278	A
26	14	385	C
26	14	503	A
26	14	529	A
26	14	573	G
26	14	614	U
26	14	669	G
26	14	686	G
26	14	764	A
26	14	774	A
26	14	790	C
26	14	791	C
26	14	1022	G
26	14	1128	A
26	14	1273	U
26	14	1379	A
26	14	1385	G
26	14	1396	U
26	14	1420	U
26	14	1427	A
26	14	1460	A

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Mol	Chain	Res	Type
26	14	1558	A
26	14	1559	G
26	14	1608	A
26	14	1609	A
26	14	1647	G
26	14	1801	G
26	14	1819	A
26	14	1971	A
26	14	2062	A
26	14	2157	G
26	14	2191	G
26	14	2225	A
26	14	2286	A
26	14	2402	C
26	14	2406	U
26	14	2439	A
26	14	2602	A
26	14	2629	A
26	14	2638	G
26	14	2689	U
26	14	2776	A
26	14	2778	A
26	14	2859	G
27	1J	88	C

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

23 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	$\#\|Z\| > 2$
24	MIA	3L	37	24	28,31,32	2.56	4 (14%)	38,44,47	3.16	17 (44%)
24	7MG	3K	46	24	23,26,27	2.96	7 (30%)	27,39,42	2.92	9 (33%)
24	4SU	3L	8	24	18,21,22	1.97	4 (22%)	25,30,33	2.02	5 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
24	7MG	3L	46	24	23,26,27	3.20	8 (34%)	27,39,42	2.82	9 (33%)
24	4SU	3K	8	24	18,21,22	1.92	3 (16%)	25,30,33	2.51	5 (20%)
23	OMC	2K	33	23	19,22,23	1.82	3 (15%)	25,31,34	0.94	1 (4%)
24	PSU	3L	32	24	18,21,22	1.31	1 (5%)	21,30,33	1.58	2 (9%)
23	5MU	2K	55	23	19,22,23	3.82	5 (26%)	27,32,35	3.18	10 (37%)
56	OMC	2L	33	56	19,22,23	1.76	3 (15%)	25,31,34	1.12	3 (12%)
24	PSU	3L	39	24	18,21,22	1.09	1 (5%)	21,30,33	1.76	4 (19%)
24	PSU	3K	32	24	18,21,22	1.10	1 (5%)	21,30,33	1.76	4 (19%)
22	OMC	1K	33	22	19,22,23	1.71	3 (15%)	25,31,34	0.77	0
22	5MU	1K	55	22	19,22,23	3.91	5 (26%)	27,32,35	3.31	10 (37%)
24	PSU	3K	39	24	18,21,22	1.13	1 (5%)	21,30,33	1.84	4 (19%)
24	MIA	3K	37	24	28,31,32	2.33	4 (14%)	38,44,47	3.33	13 (34%)
56	4SU	2L	8	56	18,21,22	1.98	5 (27%)	25,30,33	2.74	6 (24%)
24	PSU	3L	55	24	18,21,22	1.19	1 (5%)	21,30,33	1.75	3 (14%)
23	4SU	2K	8	23	18,21,22	1.70	4 (22%)	25,30,33	3.22	5 (20%)
24	PSU	3K	55	24	18,21,22	1.18	1 (5%)	21,30,33	2.15	7 (33%)
56	7MG	2L	47	56	23,26,27	2.96	8 (34%)	27,39,42	2.90	9 (33%)
56	PSU	2L	56	56	18,21,22	1.37	2 (11%)	21,30,33	1.85	4 (19%)
23	PSU	2K	56	23	18,21,22	1.28	2 (11%)	21,30,33	2.36	5 (23%)
23	7MG	2K	47	23	23,26,27	2.88	8 (34%)	27,39,42	2.94	9 (33%)

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
24	MIA	3L	37	24	-	7/15/33/34	0/3/3/3
24	7MG	3K	46	24	-	2/7/37/38	0/3/3/3
24	4SU	3L	8	24	-	0/7/25/26	0/2/2/2
24	7MG	3L	46	24	-	2/7/37/38	0/3/3/3
24	4SU	3K	8	24	-	5/7/25/26	0/2/2/2
23	OMC	2K	33	23	-	1/9/27/28	0/2/2/2
24	PSU	3L	32	24	-	1/7/25/26	0/2/2/2
23	5MU	2K	55	23	-	0/7/25/26	0/2/2/2
56	OMC	2L	33	56	-	0/9/27/28	0/2/2/2
24	PSU	3L	39	24	-	2/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	PSU	3K	32	24	-	0/7/25/26	0/2/2/2
22	OMC	1K	33	22	-	0/9/27/28	0/2/2/2
22	5MU	1K	55	22	-	0/7/25/26	0/2/2/2
24	PSU	3K	39	24	-	0/7/25/26	0/2/2/2
24	MIA	3K	37	24	-	6/15/33/34	0/3/3/3
56	4SU	2L	8	56	-	2/7/25/26	0/2/2/2
24	PSU	3L	55	24	-	0/7/25/26	0/2/2/2
23	4SU	2K	8	23	-	0/7/25/26	0/2/2/2
24	PSU	3K	55	24	-	3/7/25/26	0/2/2/2
56	7MG	2L	47	56	-	3/7/37/38	0/3/3/3
56	PSU	2L	56	56	-	0/7/25/26	0/2/2/2
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2
23	7MG	2K	47	23	-	2/7/37/38	0/3/3/3

All (84) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1K	55	5MU	C2-N1	12.61	1.58	1.38
23	2K	55	5MU	C2-N1	12.01	1.57	1.38
24	3L	46	7MG	C5-N7	8.67	1.46	1.35
24	3K	37	MIA	C13-C14	8.33	1.57	1.32
24	3L	37	MIA	C13-C14	8.30	1.57	1.32
56	2L	47	7MG	C5-N7	7.85	1.45	1.35
24	3K	46	7MG	C5-N7	7.75	1.45	1.35
24	3L	46	7MG	C4-N9	-7.54	1.28	1.37
23	2K	47	7MG	C5-N7	7.51	1.45	1.35
24	3L	37	MIA	C6-N6	7.39	1.45	1.34
24	3K	37	MIA	C6-N6	6.73	1.44	1.34
24	3K	46	7MG	C4-N9	-6.37	1.30	1.37
24	3L	37	MIA	C2-S10	6.26	1.80	1.75
24	3L	46	7MG	C4-N3	6.20	1.48	1.34
56	2L	47	7MG	C4-N9	-6.17	1.30	1.37
24	3K	46	7MG	C4-N3	6.08	1.48	1.34
56	2L	47	7MG	C4-N3	6.06	1.48	1.34
22	1K	55	5MU	C4-N3	-6.03	1.27	1.38
23	2K	55	5MU	C2-N3	6.03	1.48	1.38
24	3L	8	4SU	C5-C4	6.00	1.49	1.42
24	3K	8	4SU	C5-C4	5.99	1.49	1.42
23	2K	47	7MG	C4-N3	5.99	1.47	1.34
56	2L	8	4SU	C5-C4	5.94	1.49	1.42
22	1K	55	5MU	C6-N1	5.77	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2K	47	7MG	C4-N9	-5.72	1.30	1.37
23	2K	55	5MU	C4-C5	5.70	1.54	1.44
22	1K	55	5MU	C2-N3	5.61	1.47	1.38
23	2K	55	5MU	C6-N1	5.50	1.47	1.38
23	2K	55	5MU	C4-N3	-5.46	1.28	1.38
22	1K	55	5MU	C4-C5	5.12	1.53	1.44
23	2K	8	4SU	C5-C4	4.92	1.48	1.42
23	2K	33	OMC	C2-N3	4.79	1.45	1.36
23	2K	47	7MG	C8-N7	4.78	1.65	1.42
24	3L	32	PSU	C6-C5	4.67	1.40	1.35
24	3L	46	7MG	C5-C4	-4.65	1.23	1.37
56	2L	33	OMC	C2-N3	4.63	1.45	1.36
24	3K	46	7MG	C8-N7	4.62	1.64	1.42
24	3L	46	7MG	C8-N7	4.61	1.64	1.42
56	2L	56	PSU	C6-C5	4.55	1.40	1.35
56	2L	47	7MG	C8-N7	4.53	1.64	1.42
56	2L	33	OMC	C4-N4	4.48	1.44	1.33
24	3K	46	7MG	C5-C4	-4.47	1.24	1.37
23	2K	33	OMC	C4-N4	4.31	1.44	1.33
22	1K	33	OMC	C4-N4	4.30	1.44	1.33
56	2L	47	7MG	C5-C4	-4.23	1.25	1.37
22	1K	33	OMC	C2-N3	4.22	1.44	1.36
23	2K	47	7MG	C5-C4	-4.18	1.25	1.37
24	3K	39	PSU	C6-C5	3.99	1.39	1.35
23	2K	56	PSU	C6-C5	3.98	1.39	1.35
24	3L	55	PSU	C6-C5	3.96	1.39	1.35
24	3L	8	4SU	C2-N1	3.89	1.44	1.38
24	3K	8	4SU	C2-N1	3.82	1.44	1.38
24	3K	37	MIA	C2-S10	3.80	1.78	1.75
24	3K	55	PSU	C6-C5	3.78	1.39	1.35
23	2K	33	OMC	C5-C4	3.73	1.51	1.42
24	3K	32	PSU	C6-C5	3.64	1.39	1.35
24	3L	39	PSU	C6-C5	3.55	1.39	1.35
22	1K	33	OMC	C5-C4	3.44	1.50	1.42
56	2L	8	4SU	C2-N1	3.44	1.43	1.38
56	2L	33	OMC	C5-C4	3.22	1.50	1.42
56	2L	8	4SU	C6-N1	3.21	1.45	1.38
24	3K	46	7MG	C2-N2	3.13	1.41	1.34
24	3L	46	7MG	C2-N2	3.07	1.41	1.34
56	2L	47	7MG	C2-N2	3.07	1.41	1.34
23	2K	8	4SU	C2-N1	3.06	1.43	1.38
24	3K	8	4SU	C6-N1	2.88	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	3L	8	4SU	C6-N1	2.85	1.44	1.38
23	2K	47	7MG	C2-N2	2.77	1.40	1.34
23	2K	8	4SU	C4-S4	-2.65	1.64	1.68
23	2K	8	4SU	C6-N1	2.59	1.44	1.38
56	2L	47	7MG	C6-N1	-2.52	1.34	1.38
24	3K	37	MIA	C5-C4	2.40	1.43	1.39
56	2L	56	PSU	C2-N1	2.40	1.39	1.36
23	2K	47	7MG	C8-N9	2.36	1.47	1.45
23	2K	56	PSU	C4-C5	-2.35	1.37	1.44
56	2L	8	4SU	C4-N3	2.33	1.40	1.37
23	2K	47	7MG	C5-C6	2.25	1.49	1.43
24	3L	37	MIA	C5-N7	-2.25	1.35	1.39
24	3K	46	7MG	C6-N1	-2.24	1.34	1.38
24	3L	8	4SU	C2-N3	2.21	1.41	1.38
24	3L	46	7MG	C5-C6	2.18	1.49	1.43
56	2L	47	7MG	C5-C6	2.07	1.48	1.43
56	2L	8	4SU	C2-N3	2.07	1.41	1.38
24	3L	46	7MG	C6-N1	-2.03	1.35	1.38

All (144) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	1K	55	5MU	C5-C4-N3	11.44	125.26	115.32
24	3K	37	MIA	C11-S10-C2	11.35	110.77	102.25
23	2K	8	4SU	C4-N3-C2	-10.09	117.64	127.31
24	3K	37	MIA	C12-C13-C14	-10.07	108.93	127.01
23	2K	8	4SU	C5-C4-N3	9.49	123.58	114.75
24	3L	37	MIA	C12-C13-C14	-9.46	110.03	127.01
23	2K	55	5MU	C5-C4-N3	9.16	123.28	115.32
23	2K	47	7MG	C4-C5-N7	8.33	115.22	105.38
24	3K	8	4SU	C4-N3-C2	-8.30	119.35	127.31
56	2L	8	4SU	C4-N3-C2	-8.28	119.38	127.31
56	2L	47	7MG	C4-C5-N7	8.25	115.12	105.38
24	3L	37	MIA	C11-S10-C2	8.23	108.43	102.25
24	3K	46	7MG	C4-C5-N7	8.11	114.96	105.38
24	3L	46	7MG	C4-C5-N7	8.00	114.83	105.38
56	2L	8	4SU	C5-C4-N3	7.96	122.15	114.75
24	3L	37	MIA	C5-C4-N3	-7.23	119.56	127.18
24	3K	37	MIA	C5-C4-N3	-6.96	119.85	127.18
24	3L	8	4SU	C4-N3-C2	-6.42	121.16	127.31
22	1K	55	5MU	C4-N3-C2	-6.39	118.96	127.34
23	2K	47	7MG	C6-C5-N7	-6.29	122.19	131.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	3K	8	4SU	C5-C4-N3	6.17	120.49	114.75
23	2K	56	PSU	N1-C2-N3	6.03	121.53	115.17
23	2K	47	7MG	C5-C4-N9	6.01	114.03	106.33
23	2K	55	5MU	C4-N3-C2	-5.93	119.57	127.34
24	3L	37	MIA	N3-C4-N9	5.81	134.36	126.99
24	3K	46	7MG	C5-C4-N9	5.81	113.77	106.33
23	2K	55	5MU	C5M-C5-C6	-5.74	115.08	122.85
23	2K	55	5MU	C6-C5-C4	5.70	122.72	118.02
23	2K	8	4SU	C5-C4-S4	-5.65	117.85	124.31
56	2L	47	7MG	C5-C4-N9	5.62	113.54	106.33
22	1K	55	5MU	C5-C6-N1	-5.51	117.33	123.31
24	3L	46	7MG	C5-C6-N1	5.38	120.42	110.94
24	3L	46	7MG	C5-C4-N9	5.35	113.19	106.33
23	2K	55	5MU	C5-C6-N1	-5.34	117.51	123.31
24	3K	55	PSU	N1-C2-N3	5.33	120.79	115.17
56	2L	47	7MG	C6-C5-N7	-5.26	123.78	131.93
24	3K	37	MIA	N3-C4-N9	5.18	133.57	126.99
22	1K	55	5MU	O4-C4-C5	-5.16	119.02	124.92
23	2K	47	7MG	C5-C4-N3	-5.04	118.67	128.13
24	3K	46	7MG	C6-C5-N7	-4.99	124.20	131.93
23	2K	56	PSU	C4-N3-C2	-4.99	119.50	126.37
56	2L	8	4SU	C5-C4-S4	-4.98	118.61	124.31
24	3K	55	PSU	C4-N3-C2	-4.92	119.60	126.37
24	3K	46	7MG	C5-C6-N1	4.88	119.53	110.94
24	3L	55	PSU	C4-N3-C2	-4.88	119.66	126.37
24	3K	46	7MG	C2-N3-C4	4.86	120.67	112.30
56	2L	47	7MG	C5-C6-N1	4.84	119.45	110.94
56	2L	47	7MG	C5-C4-N3	-4.81	119.09	128.13
24	3K	46	7MG	C5-C4-N3	-4.77	119.17	128.13
23	2K	56	PSU	C6-N1-C2	-4.71	118.32	122.69
24	3K	8	4SU	N3-C2-N1	4.68	120.99	114.89
24	3K	39	PSU	C4-N3-C2	-4.53	120.13	126.37
22	1K	55	5MU	C6-C5-C4	4.53	121.75	118.02
23	2K	55	5MU	O4-C4-C5	-4.52	119.74	124.92
24	3L	39	PSU	C4-N3-C2	-4.51	120.16	126.37
24	3L	46	7MG	C2-N3-C4	4.50	120.05	112.30
56	2L	47	7MG	C2-N3-C4	4.46	119.97	112.30
24	3K	39	PSU	N1-C2-N3	4.42	119.83	115.17
56	2L	56	PSU	C4-N3-C2	-4.41	120.30	126.37
56	2L	56	PSU	N1-C2-N3	4.40	119.81	115.17
22	1K	55	5MU	C5M-C5-C6	-4.39	116.90	122.85
24	3L	39	PSU	N1-C2-N3	4.37	119.78	115.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	3L	37	MIA	C5-N7-C8	4.31	110.22	103.45
24	3K	32	PSU	C4-N3-C2	-4.29	120.46	126.37
24	3L	8	4SU	C5-C4-N3	4.24	118.70	114.75
24	3L	32	PSU	C4-N3-C2	-4.19	120.60	126.37
23	2K	47	7MG	C5-C6-N1	4.18	118.30	110.94
24	3L	37	MIA	C16-C14-C13	-4.10	110.35	122.66
24	3K	37	MIA	C15-C14-C13	-4.10	110.36	122.66
24	3L	55	PSU	N1-C2-N3	4.05	119.44	115.17
23	2K	47	7MG	C2-N3-C4	4.02	119.23	112.30
24	3L	8	4SU	N3-C2-N1	4.00	120.09	114.89
24	3K	32	PSU	N1-C2-N3	3.98	119.36	115.17
24	3L	46	7MG	C5-C4-N3	-3.97	120.67	128.13
24	3K	37	MIA	C5-N7-C8	3.94	109.64	103.45
24	3L	46	7MG	C6-C5-N7	-3.91	125.87	131.93
23	2K	8	4SU	N3-C2-N1	3.90	119.96	114.89
24	3L	37	MIA	C15-C14-C13	-3.85	111.12	122.66
24	3K	37	MIA	C6-C5-N7	3.82	136.59	132.43
24	3K	32	PSU	O2-C2-N1	-3.68	118.99	122.79
24	3K	37	MIA	C16-C14-C13	-3.61	111.82	122.66
24	3L	37	MIA	C4-C5-N7	-3.61	106.46	110.58
24	3K	55	PSU	C6-C5-C4	3.55	120.57	118.17
24	3K	37	MIA	C4-C5-N7	-3.54	106.54	110.58
24	3L	32	PSU	N1-C2-N3	3.40	118.75	115.17
24	3K	8	4SU	C5-C4-S4	-3.36	120.47	124.31
56	2L	8	4SU	N3-C2-N1	3.35	119.26	114.89
24	3L	37	MIA	N9-C8-N7	-3.35	109.18	113.94
24	3K	39	PSU	O2-C2-N1	-3.33	119.36	122.79
24	3L	46	7MG	N9-C8-N7	-3.32	98.67	103.37
23	2K	47	7MG	C2-N1-C6	-3.29	119.14	125.11
24	3L	37	MIA	C2-N3-C4	3.28	120.89	112.29
24	3L	8	4SU	C5-C4-S4	-3.27	120.57	124.31
23	2K	55	5MU	C5M-C5-C4	3.20	122.20	118.78
23	2K	55	5MU	O2-C2-N1	-3.17	118.67	122.80
24	3K	37	MIA	C2-N3-C4	3.11	120.44	112.29
24	3L	37	MIA	N3-C2-N1	-3.09	121.36	127.00
24	3L	46	7MG	O6-C6-C5	-3.03	120.18	127.62
24	3L	46	7MG	C2-N1-C6	-3.02	119.64	125.11
56	2L	47	7MG	C2-N1-C6	-3.01	119.66	125.11
24	3K	46	7MG	O6-C6-C5	-2.97	120.34	127.62
23	2K	47	7MG	O6-C6-C5	-2.95	120.39	127.62
23	2K	56	PSU	O2-C2-N1	-2.89	119.81	122.79
24	3K	46	7MG	C2-N1-C6	-2.87	119.90	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	2L	8	4SU	C6-C5-C4	-2.83	117.50	119.95
23	2K	56	PSU	C6-C5-C4	2.82	120.08	118.17
56	2L	56	PSU	C6-C5-C4	2.76	120.03	118.17
24	3K	37	MIA	N9-C8-N7	-2.75	110.03	113.94
24	3K	37	MIA	N3-C2-N1	-2.73	122.01	127.00
56	2L	33	OMC	N4-C4-N3	2.70	122.74	117.91
56	2L	8	4SU	O2-C2-N1	-2.68	119.30	122.80
56	2L	47	7MG	O6-C6-C5	-2.66	121.10	127.62
24	3K	46	7MG	N9-C8-N7	-2.59	99.70	103.37
24	3K	55	PSU	C6-N1-C2	-2.59	120.29	122.69
23	2K	55	5MU	C6-N1-C2	-2.54	118.77	121.30
24	3K	39	PSU	C6-N1-C2	-2.51	120.37	122.69
23	2K	55	5MU	N3-C2-N1	2.50	118.14	114.89
24	3K	32	PSU	C6-N1-C2	-2.49	120.38	122.69
24	3K	37	MIA	C2-N1-C6	2.45	122.20	117.54
24	3L	37	MIA	C6-C5-N7	2.42	135.07	132.43
24	3L	39	PSU	C6-N1-C2	-2.41	120.45	122.69
56	2L	56	PSU	C6-N1-C2	-2.41	120.46	122.69
22	1K	55	5MU	C5M-C5-C4	2.40	121.34	118.78
56	2L	33	OMC	C1'-N1-C2	2.39	123.72	118.44
23	2K	8	4SU	C6-C5-C4	-2.39	117.88	119.95
24	3K	55	PSU	O4'-C1'-C2'	2.39	108.45	105.15
24	3L	37	MIA	C16-C14-C15	-2.38	109.11	114.59
56	2L	33	OMC	C1'-N1-C6	-2.38	115.69	120.78
24	3L	39	PSU	O2-C2-N1	-2.35	120.37	122.79
22	1K	55	5MU	O4-C4-N3	-2.34	115.72	120.11
22	1K	55	5MU	C6-N1-C2	-2.33	118.99	121.30
24	3K	8	4SU	O2-C2-N1	-2.32	119.77	122.80
24	3L	37	MIA	N6-C6-N1	2.30	121.42	118.33
24	3L	37	MIA	C2-N1-C6	2.24	121.80	117.54
24	3L	37	MIA	C4-N9-C8	2.21	108.06	105.74
24	3K	55	PSU	O2-C2-N1	-2.20	120.51	122.79
56	2L	47	7MG	N9-C8-N7	-2.20	100.26	103.37
23	2K	47	7MG	N9-C8-N7	-2.19	100.27	103.37
23	2K	33	OMC	N4-C4-N3	2.17	121.80	117.91
22	1K	55	5MU	N3-C2-N1	2.16	117.70	114.89
24	3L	37	MIA	C4-C5-C6	2.04	118.48	116.78
24	3L	8	4SU	C1'-N1-C2	2.03	121.24	117.59
24	3L	55	PSU	C5-C4-N3	2.03	121.02	116.55
24	3K	55	PSU	C5-C6-N1	-2.01	119.36	122.14

There are no chirality outliers.

All (36) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
23	2K	33	OMC	C1'-C2'-O2'-CM2
24	3K	8	4SU	C2'-C1'-N1-C2
24	3K	8	4SU	C2'-C1'-N1-C6
24	3K	37	MIA	C5-C6-N6-C12
24	3K	37	MIA	N1-C2-S10-C11
24	3K	37	MIA	N3-C2-S10-C11
24	3K	37	MIA	C12-C13-C14-C15
24	3K	37	MIA	C12-C13-C14-C16
24	3L	37	MIA	O4'-C4'-C5'-O5'
24	3L	37	MIA	C3'-C4'-C5'-O5'
24	3L	37	MIA	C5-C6-N6-C12
24	3L	37	MIA	N1-C2-S10-C11
24	3L	37	MIA	N3-C2-S10-C11
24	3L	37	MIA	C12-C13-C14-C16
24	3L	39	PSU	O4'-C4'-C5'-O5'
24	3L	46	7MG	O4'-C4'-C5'-O5'
24	3K	55	PSU	C2'-C1'-C5-C4
24	3L	39	PSU	C3'-C4'-C5'-O5'
24	3K	46	7MG	O4'-C4'-C5'-O5'
24	3K	46	7MG	C3'-C4'-C5'-O5'
24	3K	55	PSU	C3'-C4'-C5'-O5'
56	2L	47	7MG	O4'-C1'-N9-C4
24	3K	37	MIA	N1-C6-N6-C12
24	3L	46	7MG	C3'-C4'-C5'-O5'
23	2K	47	7MG	C2'-C1'-N9-C8
24	3K	55	PSU	O4'-C4'-C5'-O5'
24	3L	37	MIA	N1-C6-N6-C12
56	2L	8	4SU	O4'-C4'-C5'-O5'
56	2L	47	7MG	O4'-C1'-N9-C8
24	3K	8	4SU	O4'-C1'-N1-C2
56	2L	8	4SU	C3'-C4'-C5'-O5'
24	3K	8	4SU	O4'-C1'-N1-C6
24	3L	32	PSU	O4'-C1'-C5-C4
56	2L	47	7MG	C4'-C5'-O5'-P
23	2K	47	7MG	C4'-C5'-O5'-P
24	3K	8	4SU	O4'-C4'-C5'-O5'

There are no ring outliers.

15 monomers are involved in 29 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
24	3L	37	MIA	2	0
24	3K	46	7MG	2	0
24	3L	8	4SU	5	0
24	3K	8	4SU	1	0
23	2K	33	OMC	2	0
56	2L	33	OMC	1	0
24	3K	39	PSU	2	0
24	3K	37	MIA	2	0
56	2L	8	4SU	1	0
24	3L	55	PSU	1	0
23	2K	8	4SU	1	0
24	3K	55	PSU	2	0
56	2L	47	7MG	2	0
56	2L	56	PSU	2	0
23	2K	47	7MG	3	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 995 ligands modelled in this entry, 995 are monoatomic - leaving 0 for Mogul analysis.

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.

No monomer is involved in short contacts.

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
22	1K	1
56	2L	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	1K	69:C	O3'	70:C	P	5.53
1	2L	54:G	O3'	55:U	P	2.94

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	1497/1522 (98%)	-0.59	3 (0%) 91 86	70, 114, 187, 287	0
1	1G	1497/1522 (98%)	-0.55	3 (0%) 91 86	79, 129, 197, 297	0
2	12	237/256 (92%)	0.10	5 (2%) 63 44	143, 175, 203, 210	0
2	1E	237/256 (92%)	-0.11	1 (0%) 88 79	124, 155, 178, 191	0
3	22	206/239 (86%)	-0.12	2 (0%) 79 63	132, 155, 182, 195	0
3	2E	205/239 (85%)	-0.19	0 100 100	101, 124, 154, 164	0
4	32	208/209 (99%)	0.06	1 (0%) 87 76	118, 137, 157, 163	0
4	3E	208/209 (99%)	-0.06	2 (0%) 79 63	100, 127, 145, 153	0
5	42	151/162 (93%)	0.00	4 (2%) 57 38	115, 132, 153, 171	0
5	4E	151/162 (93%)	-0.01	3 (1%) 65 46	93, 117, 136, 166	0
6	52	101/101 (100%)	-0.59	0 100 100	102, 116, 134, 144	0
6	5E	101/101 (100%)	-0.44	0 100 100	89, 112, 132, 144	0
7	62	147/156 (94%)	-0.29	1 (0%) 84 70	122, 138, 151, 165	0
7	6E	155/156 (99%)	-0.20	3 (1%) 66 48	108, 123, 152, 169	0
8	72	138/138 (100%)	0.08	3 (2%) 62 43	111, 137, 150, 157	0
8	7E	138/138 (100%)	-0.11	3 (2%) 62 43	107, 122, 136, 144	0
9	82	127/128 (99%)	0.31	7 (5%) 30 21	125, 161, 179, 186	0
9	8E	127/128 (99%)	0.05	3 (2%) 59 40	98, 142, 161, 174	0
10	1A	66/105 (62%)	0.70	8 (12%) 8 7	130, 158, 176, 188	0
10	1I	99/105 (94%)	-0.01	0 100 100	98, 147, 178, 183	0
11	2A	116/129 (89%)	-0.17	2 (1%) 69 50	103, 124, 142, 169	0
11	2I	119/129 (92%)	0.04	8 (6%) 24 16	85, 112, 156, 180	0
12	3A	122/132 (92%)	-0.11	2 (1%) 70 52	97, 113, 129, 145	0
12	3I	122/132 (92%)	-0.26	0 100 100	83, 93, 119, 143	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	4A	117/126 (92%)	-0.03	6 (5%) 33 22	125, 155, 178, 192	0
13	4I	117/126 (92%)	0.10	5 (4%) 40 25	95, 131, 145, 162	0
14	5A	52/61 (85%)	0.72	3 (5%) 29 19	138, 151, 163, 167	0
14	5I	60/61 (98%)	0.02	0 100 100	101, 113, 127, 134	0
15	6A	88/89 (98%)	-0.23	0 100 100	99, 120, 141, 148	0
15	6I	88/89 (98%)	-0.17	0 100 100	87, 110, 128, 134	0
16	7A	84/88 (95%)	-0.16	0 100 100	108, 123, 139, 168	0
16	7I	84/88 (95%)	0.47	5 (5%) 27 19	113, 127, 155, 174	0
17	8A	99/105 (94%)	-0.26	0 100 100	101, 116, 131, 136	0
17	8I	100/105 (95%)	-0.13	2 (2%) 65 46	100, 117, 127, 131	0
18	9A	72/88 (81%)	-0.54	0 100 100	109, 130, 167, 194	0
18	9I	72/88 (81%)	-0.39	0 100 100	96, 115, 152, 185	0
19	AA	78/93 (83%)	0.09	3 (3%) 44 30	137, 178, 195, 198	0
19	AI	81/93 (87%)	-0.01	2 (2%) 58 39	107, 129, 146, 157	0
20	BA	99/106 (93%)	-0.10	2 (2%) 65 46	104, 122, 141, 156	0
20	BI	99/106 (93%)	0.07	2 (2%) 65 46	120, 135, 156, 164	0
21	1B	22/27 (81%)	1.17	4 (18%) 3 3	122, 142, 149, 152	0
21	1F	25/27 (92%)	0.40	1 (4%) 42 28	106, 118, 135, 147	0
22	1K	68/77 (88%)	-0.37	1 (1%) 72 53	117, 196, 214, 216	0
23	2K	72/77 (93%)	-0.79	0 100 100	80, 108, 138, 146	0
24	3K	70/76 (92%)	-0.32	0 100 100	83, 231, 262, 266	0
24	3L	70/76 (92%)	-0.13	1 (1%) 73 55	96, 239, 268, 279	0
25	4K	13/27 (48%)	-0.02	1 (7%) 19 14	83, 115, 170, 170	0
25	4L	9/27 (33%)	0.65	1 (11%) 10 9	100, 136, 151, 157	0
26	14	2877/2917 (98%)	-0.78	2 (0%) 92 90	62, 96, 237, 329	0
26	1H	2902/2917 (99%)	-0.90	1 (0%) 100 100	50, 81, 226, 314	0
27	16	122/122 (100%)	-0.93	0 100 100	76, 99, 116, 199	0
27	1J	122/122 (100%)	-0.43	1 (0%) 82 68	98, 136, 162, 199	0
28	71	93/229 (40%)	0.13	1 (1%) 78 60	109, 115, 131, 143	0
29	11	272/276 (98%)	-0.24	1 (0%) 88 79	52, 71, 87, 95	0
29	19	273/276 (98%)	-0.21	4 (1%) 72 53	60, 83, 100, 111	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
30	21	205/206 (99%)	-0.07	5 (2%) 59 40	59, 95, 137, 152	0
30	29	205/206 (99%)	-0.09	3 (1%) 72 53	70, 104, 144, 178	0
31	31	202/210 (96%)	-0.41	0 100 100	55, 84, 120, 142	0
31	39	206/210 (98%)	-0.23	0 100 100	70, 110, 163, 190	0
32	41	181/182 (99%)	-0.09	5 (2%) 55 36	85, 110, 141, 149	0
32	49	181/182 (99%)	0.10	6 (3%) 49 33	133, 152, 174, 187	0
33	51	174/180 (96%)	-0.24	1 (0%) 85 73	88, 108, 123, 136	0
33	59	170/180 (94%)	0.35	12 (7%) 22 15	131, 193, 221, 241	0
34	61	146/148 (98%)	-0.28	0 100 100	81, 135, 151, 154	0
34	69	146/148 (98%)	0.04	5 (3%) 48 32	97, 138, 155, 163	0
35	15	138/140 (98%)	0.10	2 (1%) 73 55	87, 114, 146, 168	0
35	58	138/140 (98%)	-0.22	0 100 100	73, 95, 129, 147	0
36	25	122/122 (100%)	-0.36	0 100 100	75, 96, 112, 124	0
36	68	122/122 (100%)	-0.39	1 (0%) 82 68	65, 85, 103, 115	0
37	35	147/150 (98%)	0.07	8 (5%) 31 21	70, 114, 145, 159	0
37	78	150/150 (100%)	-0.12	2 (1%) 75 56	57, 85, 111, 159	0
38	45	141/141 (100%)	0.05	6 (4%) 40 25	80, 111, 139, 153	0
38	88	137/141 (97%)	-0.23	1 (0%) 84 70	63, 84, 103, 146	0
39	55	117/118 (99%)	-0.27	2 (1%) 69 50	69, 88, 105, 121	0
39	98	118/118 (100%)	-0.20	0 100 100	70, 91, 111, 121	0
40	65	111/112 (99%)	0.08	3 (2%) 56 37	104, 128, 140, 146	0
40	A8	111/112 (99%)	-0.23	0 100 100	81, 95, 120, 129	0
41	75	137/146 (93%)	-0.15	2 (1%) 72 53	86, 104, 164, 200	0
41	B8	137/146 (93%)	-0.21	2 (1%) 72 53	80, 99, 151, 186	0
42	85	117/118 (99%)	-0.01	1 (0%) 81 65	76, 103, 142, 163	0
42	C8	117/118 (99%)	-0.02	2 (1%) 69 50	63, 83, 117, 136	0
43	95	101/101 (100%)	-0.02	0 100 100	72, 129, 143, 161	0
43	D8	101/101 (100%)	-0.15	0 100 100	63, 108, 131, 145	0
44	A5	111/113 (98%)	-0.27	0 100 100	69, 83, 117, 151	0
44	E8	113/113 (100%)	-0.20	0 100 100	66, 80, 116, 158	0
45	B5	92/96 (95%)	-0.14	3 (3%) 49 33	78, 94, 113, 133	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
45	F8	94/96 (97%)	-0.34	0 100 100	65, 77, 101, 118	0
46	C5	104/110 (94%)	0.16	4 (3%) 44 30	98, 120, 152, 163	0
46	G8	104/110 (94%)	0.04	2 (1%) 66 48	76, 98, 132, 143	0
47	D5	137/206 (66%)	-0.18	2 (1%) 72 53	118, 147, 190, 205	0
47	H8	135/206 (65%)	-0.28	0 100 100	89, 115, 161, 182	0
48	E5	77/85 (90%)	0.20	1 (1%) 75 56	81, 97, 115, 148	0
48	I8	80/85 (94%)	-0.14	2 (2%) 58 39	66, 78, 106, 122	0
49	F5	94/98 (95%)	0.09	1 (1%) 78 60	72, 94, 135, 145	0
49	J8	97/98 (98%)	-0.32	1 (1%) 79 63	60, 79, 122, 155	0
50	G5	66/72 (91%)	-0.15	0 100 100	95, 113, 128, 155	0
50	K8	67/72 (93%)	-0.34	0 100 100	70, 89, 107, 139	0
51	H5	59/60 (98%)	-0.31	0 100 100	87, 104, 146, 161	0
51	L8	57/60 (95%)	-0.57	0 100 100	70, 86, 105, 121	0
52	I5	63/71 (88%)	-0.27	0 100 100	163, 192, 207, 213	0
52	M8	66/71 (92%)	0.18	1 (1%) 72 53	120, 156, 195, 205	0
53	J5	56/60 (93%)	-0.13	0 100 100	69, 94, 139, 149	0
53	N8	54/60 (90%)	-0.13	0 100 100	62, 100, 155, 165	0
54	L5	46/49 (93%)	-0.41	1 (2%) 62 43	61, 71, 82, 95	0
54	P8	47/49 (95%)	-0.40	0 100 100	53, 60, 76, 85	0
55	M5	60/65 (92%)	0.29	2 (3%) 49 33	78, 90, 114, 129	0
55	Q8	60/65 (92%)	0.61	5 (8%) 17 13	64, 77, 102, 113	0
56	2L	73/77 (94%)	-0.85	0 100 100	91, 123, 156, 173	0
All	All	20765/21734 (95%)	-0.38	207 (0%) 79 63	50, 110, 186, 329	0

All (207) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
41	B8	1	MET	6.5
11	2I	127	LYS	6.1
24	3L	34	G	5.7
32	41	26	GLN	5.4
11	2I	129	SER	5.0
14	5A	6	LEU	4.8
9	82	115	GLY	4.7

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Mol	Chain	Res	Type	RSRZ
34	69	1	MET	4.6
42	C8	118	GLY	4.6
27	1J	88	C	4.4
32	49	34	LEU	4.3
2	12	214	ILE	4.3
32	49	160	VAL	4.3
32	41	25	TYR	4.2
11	2I	124	LYS	4.2
14	5A	44	LEU	4.1
13	4A	102	ARG	3.8
5	4E	81	GLU	3.8
21	1F	16	GLY	3.6
33	59	171	LEU	3.6
13	4A	87	TYR	3.6
37	35	18	ARG	3.6
21	1B	13	ILE	3.5
32	49	35	GLU	3.4
26	14	1026	U	3.4
33	59	131	VAL	3.4
37	35	71	VAL	3.3
19	AA	79	THR	3.3
8	7E	4	ASP	3.3
13	4I	6	GLY	3.3
40	65	5	THR	3.3
11	2I	11	LYS	3.2
49	J8	98	LEU	3.2
19	AA	78	ARG	3.2
10	1A	44	VAL	3.1
11	2I	128	ALA	3.1
34	69	35	LEU	3.1
13	4I	102	ARG	3.1
38	45	90	VAL	3.1
34	69	4	ILE	3.1
7	62	2	ALA	3.1
38	45	83	MET	3.0
30	21	204	ALA	3.0
10	1A	16	LEU	3.0
55	Q8	61	LEU	3.0
32	49	36	LYS	3.0
20	BI	12	ALA	2.9
16	7I	39	TYR	2.9
13	4A	6	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
45	B5	94	GLY	2.9
20	BA	25	ARG	2.9
37	35	16	ARG	2.9
35	15	46	VAL	2.9
29	19	105	ILE	2.9
9	82	106	ALA	2.9
11	2A	126	ARG	2.8
12	3A	19	ARG	2.8
7	6E	83	ALA	2.8
55	Q8	56	GLU	2.8
21	1B	14	TRP	2.8
25	4L	20	A	2.8
45	B5	69	TYR	2.8
10	1A	38	ILE	2.7
17	8I	36	ILE	2.7
32	49	159	VAL	2.7
38	45	65	PHE	2.7
13	4A	88	ARG	2.7
46	C5	33	LYS	2.7
41	75	104	ASN	2.7
33	59	103	LEU	2.7
52	M8	56	VAL	2.7
22	1K	76	C	2.7
55	Q8	34	TRP	2.7
48	I8	9	SER	2.7
9	82	109	VAL	2.7
33	59	133	VAL	2.7
8	72	1	MET	2.6
20	BI	18	GLN	2.6
2	12	93	VAL	2.6
17	8I	35	VAL	2.6
10	1A	53	PRO	2.6
55	Q8	55	ALA	2.6
5	4E	88	LYS	2.6
32	41	3	LEU	2.6
37	78	58	THR	2.6
8	7E	91	ARG	2.6
16	7I	9	PHE	2.6
20	BA	9	ASN	2.6
10	1A	42	THR	2.6
2	12	202	PRO	2.6
46	C5	29	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
12	3A	20	LYS	2.6
33	59	168	PRO	2.5
25	4K	13	A	2.5
33	59	89	ILE	2.5
37	35	110	TYR	2.5
33	59	87	LEU	2.5
16	7I	2	VAL	2.5
33	59	128	PRO	2.5
38	45	88	GLY	2.5
9	82	12	GLU	2.5
26	14	2146	C	2.5
33	59	98	LEU	2.5
41	75	6	LEU	2.5
9	8E	117	HIS	2.5
14	5A	33	VAL	2.5
33	51	171	LEU	2.4
48	I8	10	THR	2.4
32	49	133	LEU	2.4
13	4I	2	ALA	2.4
3	22	199	LYS	2.4
38	45	80	GLU	2.4
30	21	90	THR	2.4
34	69	36	ALA	2.4
1	13	630	G	2.4
13	4I	100	GLY	2.4
37	35	47	ASP	2.4
19	AI	78	ARG	2.4
7	6E	34	GLY	2.3
34	69	34	GLY	2.3
5	4E	21	ALA	2.3
5	42	130	ASN	2.3
1	1G	966	G	2.3
32	41	164	GLU	2.3
1	13	351	G	2.3
30	29	76	ARG	2.3
10	1A	59	SER	2.3
29	19	238	GLY	2.3
30	29	70	ALA	2.3
30	29	204	ALA	2.3
26	1H	2117	A	2.3
32	41	35	GLU	2.3
11	2I	12	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
46	C5	61	ILE	2.3
19	AA	83	HIS	2.3
10	1A	64	GLU	2.3
42	C8	116	ALA	2.3
38	88	81	VAL	2.3
1	1G	1202	G	2.2
2	1E	44	LEU	2.2
37	35	147	LEU	2.2
9	8E	126	SER	2.2
30	21	79	ARG	2.2
4	3E	12	CYS	2.2
30	21	72	VAL	2.2
4	32	5	ILE	2.2
2	12	187	LEU	2.2
9	8E	115	GLY	2.2
55	M5	34	TRP	2.2
3	22	186	PHE	2.2
46	C5	34	LYS	2.2
54	L5	46	VAL	2.2
29	11	30	GLU	2.2
5	42	12	LEU	2.2
5	42	94	ALA	2.2
36	68	84	ALA	2.2
11	2I	125	PHE	2.2
47	D5	105	VAL	2.2
30	21	195	LEU	2.2
40	65	2	ALA	2.2
55	Q8	45	GLY	2.2
35	15	104	LYS	2.2
42	85	56	ASP	2.2
9	82	128	ARG	2.2
37	78	30	THR	2.2
10	1A	35	SER	2.2
49	F5	85	LEU	2.2
1	1G	1224	G	2.2
13	4I	98	VAL	2.1
8	7E	10	LEU	2.1
55	M5	35	GLN	2.1
11	2A	12	ARG	2.1
19	AI	84	GLY	2.1
2	12	163	PHE	2.1
8	72	86	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
16	7I	17	TYR	2.1
8	72	112	LEU	2.1
9	82	127	LYS	2.1
21	1B	3	LYS	2.1
38	45	79	LEU	2.1
11	2I	126	ARG	2.1
39	55	9	LYS	2.1
47	D5	83	PRO	2.1
29	19	147	LEU	2.1
7	6E	32	ARG	2.1
45	B5	68	ARG	2.1
41	B8	21	GLU	2.1
13	4A	98	VAL	2.1
9	82	116	LYS	2.1
33	59	64	LEU	2.1
39	55	8	ARG	2.1
28	71	222	VAL	2.0
5	42	123	LEU	2.0
37	35	33	ARG	2.0
46	G8	106	LEU	2.0
37	35	35	HIS	2.0
46	G8	86	ARG	2.0
48	E5	21	LEU	2.0
29	19	270	ILE	2.0
13	4A	100	GLY	2.0
21	1B	2	GLY	2.0
16	7I	41	PRO	2.0
33	59	114	VAL	2.0
40	65	20	ARG	2.0
4	3E	21	LEU	2.0
33	59	4	ILE	2.0
1	13	307	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
24	PSU	3L	55	20/21	0.42	0.09	244,253,256,256	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
24	PSU	3K	55	20/21	0.59	0.08	233,248,253,253	0
24	7MG	3K	46	24/25	0.59	0.09	234,242,250,254	0
24	7MG	3L	46	24/25	0.60	0.10	242,245,250,252	0
24	4SU	3K	8	20/21	0.64	0.10	240,248,252,254	0
24	PSU	3L	32	20/21	0.66	0.14	165,176,183,185	0
24	PSU	3L	39	20/21	0.76	0.10	156,173,181,188	0
22	5MU	1K	55	21/22	0.79	0.09	147,158,168,170	0
24	4SU	3L	8	20/21	0.83	0.07	239,245,250,250	0
24	MIA	3L	37	29/30	0.84	0.14	158,185,200,208	0
24	PSU	3K	39	20/21	0.85	0.08	126,143,151,159	0
24	MIA	3K	37	29/30	0.85	0.13	139,155,160,161	0
24	PSU	3K	32	20/21	0.88	0.09	149,154,157,159	0
56	7MG	2L	47	24/25	0.88	0.06	137,143,153,157	0
56	4SU	2L	8	20/21	0.89	0.08	127,132,138,139	0
23	7MG	2K	47	24/25	0.90	0.07	113,121,127,130	0
56	PSU	2L	56	20/21	0.90	0.07	116,124,129,135	0
23	5MU	2K	55	21/22	0.91	0.06	96,109,114,116	0
22	OMC	1K	33	21/22	0.94	0.11	114,132,138,141	0
23	4SU	2K	8	20/21	0.94	0.06	101,110,114,119	0
23	PSU	2K	56	20/21	0.94	0.06	95,103,113,113	0
56	OMC	2L	33	21/22	0.95	0.08	105,114,117,119	0
23	OMC	2K	33	21/22	0.96	0.08	84,91,99,106	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
57	MG	1G	1641	1/1	0.40	0.49	113,113,113,113	0
57	MG	13	1667	1/1	0.47	0.25	119,119,119,119	0
57	MG	1G	1646	1/1	0.53	0.34	117,117,117,117	0
57	MG	1H	3252	1/1	0.59	0.38	92,92,92,92	0
57	MG	1G	1631	1/1	0.59	0.34	97,97,97,97	0
57	MG	1J	203	1/1	0.59	0.37	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1G	1658	1/1	0.61	0.19	132,132,132,132	0
57	MG	13	1659	1/1	0.61	0.36	100,100,100,100	0
57	MG	45	201	1/1	0.62	0.20	98,98,98,98	0
57	MG	1H	3191	1/1	0.63	0.41	102,102,102,102	0
57	MG	1G	1660	1/1	0.63	0.20	124,124,124,124	0
57	MG	13	1664	1/1	0.64	0.33	95,95,95,95	0
57	MG	1H	3184	1/1	0.64	0.25	86,86,86,86	0
57	MG	1H	3190	1/1	0.64	0.26	94,94,94,94	0
57	MG	3L	101	1/1	0.65	0.16	156,156,156,156	0
57	MG	14	3180	1/1	0.65	0.25	112,112,112,112	0
57	MG	1G	1648	1/1	0.65	0.36	99,99,99,99	0
57	MG	1G	1651	1/1	0.65	0.36	94,94,94,94	0
57	MG	1H	3168	1/1	0.66	0.28	100,100,100,100	0
57	MG	13	1655	1/1	0.67	0.17	81,81,81,81	0
57	MG	2L	102	1/1	0.67	0.26	96,96,96,96	0
57	MG	13	1657	1/1	0.67	0.21	129,129,129,129	0
57	MG	1H	3240	1/1	0.68	0.20	73,73,73,73	0
57	MG	1H	3174	1/1	0.68	0.26	88,88,88,88	0
57	MG	1H	3254	1/1	0.68	0.30	94,94,94,94	0
57	MG	13	1634	1/1	0.68	0.22	110,110,110,110	0
57	MG	1H	3232	1/1	0.68	0.25	102,102,102,102	0
57	MG	13	1661	1/1	0.69	0.32	89,89,89,89	0
57	MG	14	3211	1/1	0.69	0.30	101,101,101,101	0
57	MG	14	3128	1/1	0.69	0.20	98,98,98,98	0
57	MG	14	3179	1/1	0.69	0.33	100,100,100,100	0
57	MG	14	3212	1/1	0.70	0.34	86,86,86,86	0
57	MG	1G	1663	1/1	0.70	0.20	89,89,89,89	0
57	MG	14	3098	1/1	0.70	0.20	78,78,78,78	0
57	MG	1H	3236	1/1	0.71	0.23	80,80,80,80	0
57	MG	1H	3099	1/1	0.71	0.16	88,88,88,88	0
57	MG	1G	1654	1/1	0.71	0.29	92,92,92,92	0
57	MG	1H	3257	1/1	0.71	0.38	90,90,90,90	0
57	MG	1G	1612	1/1	0.72	0.23	99,99,99,99	0
57	MG	1H	3098	1/1	0.72	0.25	83,83,83,83	0
57	MG	1H	3248	1/1	0.73	0.31	76,76,76,76	0
57	MG	1H	3269	1/1	0.73	0.30	74,74,74,74	0
57	MG	1H	3048	1/1	0.74	0.22	69,69,69,69	0
57	MG	14	3129	1/1	0.74	0.26	90,90,90,90	0
57	MG	13	1650	1/1	0.74	0.27	88,88,88,88	0
57	MG	1G	1621	1/1	0.74	0.31	92,92,92,92	0
57	MG	13	1662	1/1	0.74	0.32	88,88,88,88	0
57	MG	14	3027	1/1	0.74	0.28	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1H	3109	1/1	0.74	0.22	76,76,76,76	0
57	MG	14	3127	1/1	0.74	0.27	77,77,77,77	0
57	MG	13	1666	1/1	0.75	0.19	116,116,116,116	0
57	MG	1G	1642	1/1	0.75	0.28	93,93,93,93	0
57	MG	13	1615	1/1	0.75	0.26	85,85,85,85	0
57	MG	14	3142	1/1	0.75	0.19	86,86,86,86	0
57	MG	1G	1616	1/1	0.75	0.19	105,105,105,105	0
57	MG	1H	3114	1/1	0.75	0.23	77,77,77,77	0
57	MG	14	3022	1/1	0.75	0.27	89,89,89,89	0
57	MG	1H	3267	1/1	0.75	0.27	106,106,106,106	0
57	MG	1G	1655	1/1	0.75	0.30	82,82,82,82	0
57	MG	14	3111	1/1	0.75	0.36	89,89,89,89	0
57	MG	13	1611	1/1	0.76	0.29	107,107,107,107	0
57	MG	14	3156	1/1	0.76	0.17	107,107,107,107	0
57	MG	14	3100	1/1	0.76	0.22	82,82,82,82	0
57	MG	4I	201	1/1	0.76	0.14	97,97,97,97	0
57	MG	14	3199	1/1	0.76	0.32	95,95,95,95	0
57	MG	14	3124	1/1	0.76	0.27	97,97,97,97	0
57	MG	1H	3238	1/1	0.76	0.25	101,101,101,101	0
57	MG	1H	3207	1/1	0.76	0.24	80,80,80,80	0
57	MG	14	3069	1/1	0.76	0.35	97,97,97,97	0
57	MG	1H	3171	1/1	0.77	0.29	84,84,84,84	0
57	MG	14	3160	1/1	0.77	0.14	83,83,83,83	0
57	MG	1H	3069	1/1	0.77	0.26	69,69,69,69	0
57	MG	1H	3277	1/1	0.77	0.17	89,89,89,89	0
57	MG	14	3188	1/1	0.77	0.23	87,87,87,87	0
57	MG	16	205	1/1	0.77	0.23	90,90,90,90	0
57	MG	14	3201	1/1	0.77	0.37	78,78,78,78	0
57	MG	41	202	1/1	0.77	0.23	93,93,93,93	0
57	MG	13	1612	1/1	0.77	0.28	84,84,84,84	0
57	MG	14	3215	1/1	0.77	0.31	97,97,97,97	0
57	MG	1H	3221	1/1	0.77	0.31	79,79,79,79	0
57	MG	1H	3266	1/1	0.77	0.19	85,85,85,85	0
57	MG	13	1652	1/1	0.78	0.19	104,104,104,104	0
57	MG	3L	102	1/1	0.78	0.11	165,165,165,165	0
57	MG	16	207	1/1	0.78	0.18	88,88,88,88	0
57	MG	14	3025	1/1	0.78	0.24	95,95,95,95	0
57	MG	1H	3173	1/1	0.78	0.20	99,99,99,99	0
57	MG	1G	1610	1/1	0.78	0.22	111,111,111,111	0
57	MG	1H	3043	1/1	0.78	0.17	75,75,75,75	0
57	MG	13	1610	1/1	0.78	0.27	72,72,72,72	0
57	MG	14	3203	1/1	0.78	0.19	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1G	1656	1/1	0.78	0.26	97,97,97,97	0
57	MG	1H	3188	1/1	0.78	0.18	82,82,82,82	0
57	MG	1H	3050	1/1	0.78	0.12	68,68,68,68	0
57	MG	1J	201	1/1	0.78	0.40	88,88,88,88	0
57	MG	1G	1635	1/1	0.78	0.22	79,79,79,79	0
57	MG	13	1630	1/1	0.78	0.22	83,83,83,83	0
57	MG	14	3151	1/1	0.79	0.34	71,71,71,71	0
57	MG	1G	1645	1/1	0.79	0.24	107,107,107,107	0
57	MG	13	1607	1/1	0.79	0.31	88,88,88,88	0
57	MG	14	3174	1/1	0.79	0.38	87,87,87,87	0
57	MG	14	3060	1/1	0.79	0.24	83,83,83,83	0
57	MG	1H	3255	1/1	0.79	0.26	81,81,81,81	0
57	MG	1H	3107	1/1	0.79	0.30	81,81,81,81	0
57	MG	1G	1653	1/1	0.79	0.28	91,91,91,91	0
57	MG	1H	3118	1/1	0.80	0.19	76,76,76,76	0
57	MG	14	3075	1/1	0.80	0.22	103,103,103,103	0
57	MG	1H	3120	1/1	0.80	0.26	56,56,56,56	0
57	MG	13	1629	1/1	0.80	0.30	74,74,74,74	0
57	MG	1H	3100	1/1	0.80	0.16	84,84,84,84	0
57	MG	14	3119	1/1	0.80	0.19	67,67,67,67	0
57	MG	14	3122	1/1	0.80	0.16	76,76,76,76	0
57	MG	1H	3087	1/1	0.80	0.30	80,80,80,80	0
57	MG	1H	3096	1/1	0.80	0.14	65,65,65,65	0
57	MG	14	3210	1/1	0.80	0.33	78,78,78,78	0
57	MG	1H	3178	1/1	0.80	0.27	91,91,91,91	0
57	MG	1H	3181	1/1	0.80	0.15	75,75,75,75	0
57	MG	14	3141	1/1	0.80	0.27	67,67,67,67	0
57	MG	1G	1634	1/1	0.80	0.20	93,93,93,93	0
57	MG	14	3148	1/1	0.80	0.16	93,93,93,93	0
57	MG	13	1671	1/1	0.80	0.28	97,97,97,97	0
57	MG	1H	3244	1/1	0.81	0.36	88,88,88,88	0
57	MG	14	3153	1/1	0.81	0.38	87,87,87,87	0
57	MG	1H	3146	1/1	0.81	0.32	80,80,80,80	0
57	MG	1H	3147	1/1	0.81	0.25	74,74,74,74	0
57	MG	1H	3053	1/1	0.81	0.33	76,76,76,76	0
57	MG	1H	3022	1/1	0.81	0.29	64,64,64,64	0
57	MG	1G	1659	1/1	0.81	0.18	101,101,101,101	0
57	MG	1H	3219	1/1	0.81	0.23	77,77,77,77	0
57	MG	1H	3070	1/1	0.81	0.25	64,64,64,64	0
57	MG	1H	3225	1/1	0.81	0.29	95,95,95,95	0
57	MG	13	1663	1/1	0.81	0.40	77,77,77,77	0
57	MG	1H	3095	1/1	0.81	0.37	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	13	1638	1/1	0.81	0.24	84,84,84,84	0
57	MG	14	3134	1/1	0.81	0.20	72,72,72,72	0
57	MG	14	3138	1/1	0.81	0.17	74,74,74,74	0
57	MG	14	3218	1/1	0.81	0.28	74,74,74,74	0
57	MG	13	1616	1/1	0.81	0.28	93,93,93,93	0
57	MG	1H	3242	1/1	0.81	0.40	79,79,79,79	0
57	MG	14	3032	1/1	0.81	0.21	98,98,98,98	0
57	MG	1G	1636	1/1	0.82	0.31	96,96,96,96	0
57	MG	13	1645	1/1	0.82	0.17	89,89,89,89	0
57	MG	14	3166	1/1	0.82	0.33	82,82,82,82	0
57	MG	14	3169	1/1	0.82	0.27	59,59,59,59	0
57	MG	1G	1601	1/1	0.82	0.23	90,90,90,90	0
57	MG	1G	1602	1/1	0.82	0.32	79,79,79,79	0
57	MG	13	1621	1/1	0.82	0.21	88,88,88,88	0
57	MG	1H	3199	1/1	0.82	0.17	98,98,98,98	0
57	MG	14	3007	1/1	0.82	0.19	76,76,76,76	0
57	MG	14	3200	1/1	0.82	0.28	90,90,90,90	0
57	MG	1G	1650	1/1	0.82	0.31	86,86,86,86	0
57	MG	1H	3270	1/1	0.82	0.23	102,102,102,102	0
57	MG	14	3205	1/1	0.82	0.24	80,80,80,80	0
57	MG	1H	3226	1/1	0.82	0.24	70,70,70,70	0
57	MG	16	201	1/1	0.82	0.20	90,90,90,90	0
57	MG	14	3040	1/1	0.82	0.20	62,62,62,62	0
57	MG	14	3213	1/1	0.82	0.27	102,102,102,102	0
57	MG	14	3058	1/1	0.82	0.25	77,77,77,77	0
57	MG	14	3144	1/1	0.82	0.21	72,72,72,72	0
57	MG	1G	1632	1/1	0.82	0.24	131,131,131,131	0
57	MG	1H	3256	1/1	0.82	0.29	72,72,72,72	0
57	MG	1H	3097	1/1	0.82	0.22	93,93,93,93	0
57	MG	55	201	1/1	0.82	0.19	57,57,57,57	0
57	MG	1H	3115	1/1	0.83	0.20	63,63,63,63	0
57	MG	1G	1644	1/1	0.83	0.31	90,90,90,90	0
57	MG	1H	3020	1/1	0.83	0.26	70,70,70,70	0
57	MG	13	1626	1/1	0.83	0.24	73,73,73,73	0
57	MG	14	3197	1/1	0.83	0.28	78,78,78,78	0
57	MG	14	3008	1/1	0.83	0.24	59,59,59,59	0
57	MG	14	3018	1/1	0.83	0.45	66,66,66,66	0
57	MG	1H	3218	1/1	0.83	0.28	91,91,91,91	0
57	MG	1H	3030	1/1	0.83	0.27	79,79,79,79	0
57	MG	1G	1619	1/1	0.83	0.19	103,103,103,103	0
57	MG	1H	3042	1/1	0.83	0.20	77,77,77,77	0
57	MG	1G	1628	1/1	0.83	0.21	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1H	3150	1/1	0.83	0.26	65,65,65,65	0
57	MG	16	203	1/1	0.83	0.15	98,98,98,98	0
57	MG	1H	3153	1/1	0.83	0.25	83,83,83,83	0
57	MG	1H	3230	1/1	0.83	0.36	97,97,97,97	0
57	MG	13	1643	1/1	0.83	0.20	91,91,91,91	0
57	MG	68	202	1/1	0.83	0.28	91,91,91,91	0
57	MG	14	3106	1/1	0.83	0.25	86,86,86,86	0
57	MG	14	3108	1/1	0.83	0.26	77,77,77,77	0
57	MG	M5	101	1/1	0.83	0.30	85,85,85,85	0
57	MG	1H	3129	1/1	0.84	0.21	93,93,93,93	0
57	MG	14	3170	1/1	0.84	0.50	83,83,83,83	0
57	MG	1H	3016	1/1	0.84	0.24	71,71,71,71	0
57	MG	14	3176	1/1	0.84	0.48	85,85,85,85	0
57	MG	1H	3074	1/1	0.84	0.22	63,63,63,63	0
57	MG	14	3114	1/1	0.84	0.21	88,88,88,88	0
57	MG	14	3182	1/1	0.84	0.33	84,84,84,84	0
57	MG	13	1636	1/1	0.84	0.20	103,103,103,103	0
57	MG	14	3194	1/1	0.84	0.23	79,79,79,79	0
57	MG	1H	3090	1/1	0.84	0.35	47,47,47,47	0
57	MG	1H	3259	1/1	0.84	0.20	73,73,73,73	0
57	MG	1H	3262	1/1	0.84	0.24	75,75,75,75	0
57	MG	13	1670	1/1	0.84	0.25	101,101,101,101	0
57	MG	1H	3198	1/1	0.84	0.19	77,77,77,77	0
57	MG	1H	3268	1/1	0.84	0.23	96,96,96,96	0
57	MG	14	3207	1/1	0.84	0.16	70,70,70,70	0
57	MG	13	1632	1/1	0.84	0.20	74,74,74,74	0
57	MG	1H	3172	1/1	0.84	0.26	73,73,73,73	0
57	MG	1H	3062	1/1	0.84	0.28	78,78,78,78	0
57	MG	1H	3245	1/1	0.84	0.25	96,96,96,96	0
57	MG	13	1640	1/1	0.84	0.20	141,141,141,141	0
57	MG	14	3088	1/1	0.84	0.21	76,76,76,76	0
57	MG	14	3152	1/1	0.84	0.15	93,93,93,93	0
57	MG	14	3095	1/1	0.84	0.24	83,83,83,83	0
57	MG	1G	1662	1/1	0.84	0.33	91,91,91,91	0
57	MG	1H	3251	1/1	0.84	0.30	84,84,84,84	0
57	MG	14	3103	1/1	0.84	0.24	74,74,74,74	0
57	MG	1H	3228	1/1	0.85	0.27	83,83,83,83	0
57	MG	1H	3039	1/1	0.85	0.26	69,69,69,69	0
57	MG	14	3086	1/1	0.85	0.22	82,82,82,82	0
57	MG	1G	1649	1/1	0.85	0.32	70,70,70,70	0
57	MG	1H	3011	1/1	0.85	0.33	63,63,63,63	0
57	MG	1H	3234	1/1	0.85	0.30	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	13	1624	1/1	0.85	0.16	84,84,84,84	0
57	MG	1H	3126	1/1	0.85	0.21	67,67,67,67	0
57	MG	1H	3018	1/1	0.85	0.13	80,80,80,80	0
57	MG	1H	3143	1/1	0.85	0.30	64,64,64,64	0
57	MG	14	3109	1/1	0.85	0.17	84,84,84,84	0
57	MG	14	3164	1/1	0.85	0.22	94,94,94,94	0
57	MG	13	1641	1/1	0.85	0.27	74,74,74,74	0
57	MG	14	3029	1/1	0.85	0.21	78,78,78,78	0
57	MG	4E	201	1/1	0.85	0.25	88,88,88,88	0
57	MG	14	3034	1/1	0.85	0.23	82,82,82,82	0
57	MG	1J	202	1/1	0.85	0.23	74,74,74,74	0
57	MG	13	1614	1/1	0.85	0.23	70,70,70,70	0
57	MG	14	3043	1/1	0.85	0.24	71,71,71,71	0
57	MG	1G	1661	1/1	0.85	0.15	109,109,109,109	0
57	MG	1H	3152	1/1	0.85	0.28	92,92,92,92	0
57	MG	1H	3089	1/1	0.86	0.15	74,74,74,74	0
57	MG	14	3132	1/1	0.86	0.19	81,81,81,81	0
57	MG	1G	1647	1/1	0.86	0.32	101,101,101,101	0
57	MG	1H	3014	1/1	0.86	0.18	67,67,67,67	0
57	MG	1H	3237	1/1	0.86	0.30	64,64,64,64	0
57	MG	1H	3073	1/1	0.86	0.19	55,55,55,55	0
57	MG	14	3102	1/1	0.86	0.30	81,81,81,81	0
57	MG	1G	1608	1/1	0.86	0.28	88,88,88,88	0
57	MG	14	3105	1/1	0.86	0.14	89,89,89,89	0
57	MG	14	3204	1/1	0.86	0.17	71,71,71,71	0
57	MG	1H	3179	1/1	0.86	0.31	81,81,81,81	0
57	MG	1H	3064	1/1	0.86	0.14	52,52,52,52	0
57	MG	14	3045	1/1	0.86	0.21	66,66,66,66	0
57	MG	14	3051	1/1	0.86	0.32	74,74,74,74	0
57	MG	13	1639	1/1	0.86	0.28	83,83,83,83	0
57	MG	14	3165	1/1	0.86	0.32	86,86,86,86	0
57	MG	14	3214	1/1	0.86	0.16	84,84,84,84	0
57	MG	1H	3215	1/1	0.86	0.26	79,79,79,79	0
57	MG	14	3167	1/1	0.86	0.25	91,91,91,91	0
57	MG	14	3063	1/1	0.86	0.20	80,80,80,80	0
57	MG	14	3012	1/1	0.86	0.26	60,60,60,60	0
57	MG	14	3171	1/1	0.86	0.26	71,71,71,71	0
57	MG	14	3125	1/1	0.86	0.31	68,68,68,68	0
57	MG	14	3073	1/1	0.86	0.29	81,81,81,81	0
57	MG	1H	3216	1/1	0.86	0.22	75,75,75,75	0
57	MG	11	301	1/1	0.87	0.15	62,62,62,62	0
57	MG	14	3015	1/1	0.87	0.24	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1H	3249	1/1	0.87	0.28	79,79,79,79	0
57	MG	14	3019	1/1	0.87	0.24	77,77,77,77	0
57	MG	14	3020	1/1	0.87	0.35	76,76,76,76	0
57	MG	13	1628	1/1	0.87	0.33	90,90,90,90	0
57	MG	78	201	1/1	0.87	0.23	60,60,60,60	0
57	MG	14	3117	1/1	0.87	0.19	80,80,80,80	0
57	MG	14	3181	1/1	0.87	0.32	85,85,85,85	0
57	MG	1H	3031	1/1	0.87	0.18	87,87,87,87	0
57	MG	1H	3180	1/1	0.87	0.17	80,80,80,80	0
57	MG	1H	3148	1/1	0.87	0.15	64,64,64,64	0
57	MG	1H	3032	1/1	0.87	0.22	75,75,75,75	0
57	MG	13	1646	1/1	0.87	0.19	102,102,102,102	0
57	MG	1H	3021	1/1	0.87	0.22	62,62,62,62	0
57	MG	1H	3233	1/1	0.87	0.29	86,86,86,86	0
57	MG	1G	1657	1/1	0.87	0.30	91,91,91,91	0
57	MG	1H	3162	1/1	0.87	0.23	83,83,83,83	0
57	MG	1H	3166	1/1	0.87	0.31	75,75,75,75	0
57	MG	14	3139	1/1	0.87	0.14	93,93,93,93	0
57	MG	1H	3122	1/1	0.87	0.47	81,81,81,81	0
57	MG	1H	3202	1/1	0.87	0.19	84,84,84,84	0
57	MG	1H	3203	1/1	0.87	0.23	62,62,62,62	0
57	MG	14	3147	1/1	0.87	0.24	79,79,79,79	0
57	MG	13	1648	1/1	0.87	0.22	84,84,84,84	0
57	MG	14	3080	1/1	0.87	0.24	89,89,89,89	0
57	MG	14	3084	1/1	0.87	0.18	82,82,82,82	0
57	MG	14	3220	1/1	0.87	0.17	84,84,84,84	0
57	MG	14	3291	1/1	0.87	0.08	126,126,126,126	0
57	MG	1H	3103	1/1	0.87	0.17	80,80,80,80	0
57	MG	1G	1637	1/1	0.87	0.38	85,85,85,85	0
57	MG	1H	3091	1/1	0.87	0.16	71,71,71,71	0
57	MG	1H	3247	1/1	0.87	0.16	97,97,97,97	0
57	MG	1H	3144	1/1	0.87	0.13	95,95,95,95	0
57	MG	14	3010	1/1	0.87	0.20	58,58,58,58	0
58	ZN	C5	201	1/1	0.87	0.12	187,187,187,187	0
57	MG	1H	3158	1/1	0.88	0.23	59,59,59,59	0
57	MG	14	3191	1/1	0.88	0.32	72,72,72,72	0
57	MG	14	3101	1/1	0.88	0.18	84,84,84,84	0
57	MG	14	3196	1/1	0.88	0.21	86,86,86,86	0
57	MG	13	1604	1/1	0.88	0.19	79,79,79,79	0
57	MG	1H	3229	1/1	0.88	0.16	72,72,72,72	0
57	MG	1H	3164	1/1	0.88	0.22	66,66,66,66	0
57	MG	1H	3001	1/1	0.88	0.31	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	14	3202	1/1	0.88	0.16	88,88,88,88	0
57	MG	1H	3019	1/1	0.88	0.17	72,72,72,72	0
57	MG	1H	3131	1/1	0.88	0.21	67,67,67,67	0
57	MG	14	3049	1/1	0.88	0.26	63,63,63,63	0
57	MG	14	3157	1/1	0.88	0.21	79,79,79,79	0
57	MG	14	3112	1/1	0.88	0.24	78,78,78,78	0
57	MG	14	3161	1/1	0.88	0.20	88,88,88,88	0
57	MG	1H	3105	1/1	0.88	0.24	81,81,81,81	0
57	MG	1H	3204	1/1	0.88	0.22	77,77,77,77	0
57	MG	1H	3010	1/1	0.88	0.16	51,51,51,51	0
57	MG	13	1637	1/1	0.88	0.12	105,105,105,105	0
57	MG	14	3217	1/1	0.88	0.10	83,83,83,83	0
57	MG	1G	1611	1/1	0.88	0.09	98,98,98,98	0
57	MG	1H	3110	1/1	0.88	0.31	84,84,84,84	0
57	MG	1G	1613	1/1	0.88	0.18	89,89,89,89	0
57	MG	13	1603	1/1	0.88	0.20	78,78,78,78	0
57	MG	1H	3071	1/1	0.88	0.21	66,66,66,66	0
57	MG	14	3178	1/1	0.88	0.18	76,76,76,76	0
57	MG	1H	3072	1/1	0.88	0.29	66,66,66,66	0
57	MG	1G	1622	1/1	0.88	0.26	80,80,80,80	0
57	MG	1G	1627	1/1	0.88	0.20	103,103,103,103	0
57	MG	1H	3024	1/1	0.88	0.11	72,72,72,72	0
57	MG	1H	3140	1/1	0.89	0.21	74,74,74,74	0
57	MG	14	3175	1/1	0.89	0.36	75,75,75,75	0
57	MG	14	3030	1/1	0.89	0.25	64,64,64,64	0
57	MG	1G	1615	1/1	0.89	0.30	90,90,90,90	0
57	MG	14	3115	1/1	0.89	0.20	71,71,71,71	0
57	MG	13	1672	1/1	0.89	0.20	84,84,84,84	0
57	MG	1G	1618	1/1	0.89	0.16	100,100,100,100	0
57	MG	1H	3211	1/1	0.89	0.15	78,78,78,78	0
57	MG	1H	3275	1/1	0.89	0.24	63,63,63,63	0
57	MG	13	1673	1/1	0.89	0.28	87,87,87,87	0
57	MG	14	3192	1/1	0.89	0.31	74,74,74,74	0
57	MG	1H	3012	1/1	0.89	0.15	69,69,69,69	0
57	MG	1H	3047	1/1	0.89	0.25	61,61,61,61	0
57	MG	13	1693	1/1	0.89	0.08	118,118,118,118	0
57	MG	14	3062	1/1	0.89	0.21	70,70,70,70	0
57	MG	16	206	1/1	0.89	0.16	83,83,83,83	0
57	MG	14	3067	1/1	0.89	0.23	71,71,71,71	0
57	MG	14	3068	1/1	0.89	0.17	81,81,81,81	0
57	MG	1G	1633	1/1	0.89	0.17	141,141,141,141	0
57	MG	1H	3116	1/1	0.89	0.11	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	14	3143	1/1	0.89	0.15	92,92,92,92	0
57	MG	14	3074	1/1	0.89	0.30	82,82,82,82	0
57	MG	14	3208	1/1	0.89	0.19	77,77,77,77	0
57	MG	13	1647	1/1	0.89	0.15	81,81,81,81	0
57	MG	1H	3182	1/1	0.89	0.22	78,78,78,78	0
57	MG	13	1625	1/1	0.89	0.18	80,80,80,80	0
57	MG	1G	1639	1/1	0.89	0.21	90,90,90,90	0
57	MG	1H	3157	1/1	0.89	0.24	89,89,89,89	0
57	MG	L8	101	1/1	0.89	0.14	70,70,70,70	0
57	MG	14	3013	1/1	0.89	0.27	55,55,55,55	0
57	MG	14	3159	1/1	0.89	0.17	73,73,73,73	0
57	MG	14	3099	1/1	0.89	0.16	108,108,108,108	0
57	MG	1H	3076	1/1	0.89	0.23	77,77,77,77	0
57	MG	1H	3054	1/1	0.89	0.23	41,41,41,41	0
57	MG	1G	1605	1/1	0.89	0.28	104,104,104,104	0
57	MG	1H	3104	1/1	0.89	0.13	69,69,69,69	0
57	MG	1H	3130	1/1	0.89	0.31	81,81,81,81	0
57	MG	14	3024	1/1	0.89	0.33	78,78,78,78	0
57	MG	13	1613	1/1	0.89	0.20	74,74,74,74	0
57	MG	1H	3170	1/1	0.89	0.21	88,88,88,88	0
57	MG	14	3039	1/1	0.90	0.21	75,75,75,75	0
57	MG	1H	3239	1/1	0.90	0.24	71,71,71,71	0
57	MG	1H	3271	1/1	0.90	0.32	90,90,90,90	0
57	MG	1H	3078	1/1	0.90	0.11	73,73,73,73	0
57	MG	14	3120	1/1	0.90	0.20	49,49,49,49	0
57	MG	1H	3212	1/1	0.90	0.42	62,62,62,62	0
57	MG	1H	3279	1/1	0.90	0.18	78,78,78,78	0
57	MG	1H	3280	1/1	0.90	0.38	72,72,72,72	0
57	MG	1H	3151	1/1	0.90	0.32	75,75,75,75	0
57	MG	16	202	1/1	0.90	0.24	62,62,62,62	0
57	MG	14	3193	1/1	0.90	0.23	78,78,78,78	0
57	MG	1G	1630	1/1	0.90	0.19	102,102,102,102	0
57	MG	14	3066	1/1	0.90	0.25	63,63,63,63	0
57	MG	1H	3085	1/1	0.90	0.17	58,58,58,58	0
57	MG	14	3137	1/1	0.90	0.13	76,76,76,76	0
57	MG	1H	3065	1/1	0.90	0.13	58,58,58,58	0
57	MG	1H	3006	1/1	0.90	0.20	58,58,58,58	0
57	MG	14	3001	1/1	0.90	0.21	58,58,58,58	0
57	MG	14	3002	1/1	0.90	0.17	64,64,64,64	0
57	MG	1H	3049	1/1	0.90	0.11	58,58,58,58	0
57	MG	1H	3222	1/1	0.90	0.25	81,81,81,81	0
57	MG	14	3081	1/1	0.90	0.14	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	13	1623	1/1	0.90	0.16	77,77,77,77	0
57	MG	14	3209	1/1	0.90	0.17	84,84,84,84	0
57	MG	1H	3253	1/1	0.90	0.22	67,67,67,67	0
57	MG	1H	3017	1/1	0.90	0.18	81,81,81,81	0
57	MG	78	202	1/1	0.90	0.24	84,84,84,84	0
57	MG	1H	3142	1/1	0.90	0.12	55,55,55,55	0
57	MG	1H	3167	1/1	0.90	0.33	79,79,79,79	0
57	MG	14	3158	1/1	0.90	0.15	94,94,94,94	0
57	MG	14	3216	1/1	0.90	0.35	84,84,84,84	0
57	MG	1H	3196	1/1	0.90	0.12	84,84,84,84	0
57	MG	1H	3112	1/1	0.90	0.21	76,76,76,76	0
57	MG	1G	1606	1/1	0.90	0.15	92,92,92,92	0
57	MG	1H	3169	1/1	0.90	0.36	72,72,72,72	0
57	MG	1G	1609	1/1	0.90	0.12	106,106,106,106	0
57	MG	13	1618	1/1	0.90	0.18	63,63,63,63	0
57	MG	1H	3027	1/1	0.90	0.18	35,35,35,35	0
57	MG	1H	3075	1/1	0.90	0.31	59,59,59,59	0
57	MG	14	3110	1/1	0.90	0.15	82,82,82,82	0
57	MG	3E	301	1/1	0.90	0.12	127,127,127,127	0
58	ZN	G8	201	1/1	0.90	0.15	176,176,176,176	0
57	MG	14	3035	1/1	0.90	0.14	59,59,59,59	0
57	MG	1H	3121	1/1	0.91	0.24	73,73,73,73	0
57	MG	14	3042	1/1	0.91	0.16	75,75,75,75	0
57	MG	14	3113	1/1	0.91	0.17	76,76,76,76	0
57	MG	14	3177	1/1	0.91	0.19	65,65,65,65	0
57	MG	1G	1620	1/1	0.91	0.22	71,71,71,71	0
57	MG	14	3044	1/1	0.91	0.32	82,82,82,82	0
57	MG	1H	3165	1/1	0.91	0.14	96,96,96,96	0
57	MG	14	3048	1/1	0.91	0.16	59,59,59,59	0
57	MG	1H	3314	1/1	0.91	0.07	86,86,86,86	0
57	MG	14	3186	1/1	0.91	0.51	75,75,75,75	0
57	MG	1H	3063	1/1	0.91	0.13	56,56,56,56	0
57	MG	14	3189	1/1	0.91	0.22	69,69,69,69	0
57	MG	14	3053	1/1	0.91	0.24	64,64,64,64	0
57	MG	13	1665	1/1	0.91	0.24	86,86,86,86	0
57	MG	1G	1629	1/1	0.91	0.24	96,96,96,96	0
57	MG	1H	3036	1/1	0.91	0.17	57,57,57,57	0
57	MG	1H	3067	1/1	0.91	0.20	70,70,70,70	0
57	MG	14	3131	1/1	0.91	0.20	76,76,76,76	0
57	MG	13	1601	1/1	0.91	0.15	82,82,82,82	0
57	MG	14	3133	1/1	0.91	0.25	77,77,77,77	0
57	MG	1H	3137	1/1	0.91	0.21	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1H	3217	1/1	0.91	0.34	97,97,97,97	0
57	MG	1H	3040	1/1	0.91	0.14	67,67,67,67	0
57	MG	1H	3101	1/1	0.91	0.25	70,70,70,70	0
57	MG	13	1631	1/1	0.91	0.12	83,83,83,83	0
57	MG	13	1627	1/1	0.91	0.23	84,84,84,84	0
57	MG	1G	1640	1/1	0.91	0.10	107,107,107,107	0
57	MG	1H	3145	1/1	0.91	0.36	66,66,66,66	0
57	MG	14	3083	1/1	0.91	0.32	57,57,57,57	0
57	MG	14	3016	1/1	0.91	0.14	86,86,86,86	0
57	MG	14	3085	1/1	0.91	0.17	64,64,64,64	0
57	MG	1H	3044	1/1	0.91	0.18	60,60,60,60	0
57	MG	1H	3258	1/1	0.91	0.28	86,86,86,86	0
57	MG	1H	3023	1/1	0.91	0.18	68,68,68,68	0
57	MG	14	3097	1/1	0.91	0.15	62,62,62,62	0
57	MG	14	3021	1/1	0.91	0.18	65,65,65,65	0
57	MG	13	1633	1/1	0.91	0.22	90,90,90,90	0
57	MG	1H	3264	1/1	0.91	0.13	65,65,65,65	0
57	MG	1H	3025	1/1	0.91	0.14	66,66,66,66	0
57	MG	2K	102	1/1	0.91	0.08	111,111,111,111	0
57	MG	1H	3052	1/1	0.91	0.17	42,42,42,42	0
57	MG	1H	3028	1/1	0.91	0.20	71,71,71,71	0
57	MG	29	302	1/1	0.91	0.13	68,68,68,68	0
57	MG	1H	3235	1/1	0.91	0.19	69,69,69,69	0
57	MG	14	3168	1/1	0.91	0.20	51,51,51,51	0
57	MG	13	1658	1/1	0.91	0.20	91,91,91,91	0
57	MG	1H	3060	1/1	0.91	0.29	63,63,63,63	0
57	MG	1H	3002	1/1	0.91	0.20	47,47,47,47	0
57	MG	1H	3092	1/1	0.92	0.30	67,67,67,67	0
57	MG	14	3009	1/1	0.92	0.23	59,59,59,59	0
57	MG	14	3183	1/1	0.92	0.24	77,77,77,77	0
57	MG	98	201	1/1	0.92	0.25	70,70,70,70	0
57	MG	14	3187	1/1	0.92	0.19	81,81,81,81	0
57	MG	J8	101	1/1	0.92	0.17	62,62,62,62	0
57	MG	1G	1638	1/1	0.92	0.14	83,83,83,83	0
57	MG	J8	102	1/1	0.92	0.17	68,68,68,68	0
57	MG	1H	3260	1/1	0.92	0.28	71,71,71,71	0
57	MG	1H	3111	1/1	0.92	0.34	71,71,71,71	0
57	MG	1H	3200	1/1	0.92	0.26	73,73,73,73	0
57	MG	14	3195	1/1	0.92	0.24	88,88,88,88	0
57	MG	1G	1603	1/1	0.92	0.19	77,77,77,77	0
57	MG	1H	3141	1/1	0.92	0.23	81,81,81,81	0
57	MG	14	3087	1/1	0.92	0.26	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	13	1668	1/1	0.92	0.12	119,119,119,119	0
57	MG	13	1602	1/1	0.92	0.17	80,80,80,80	0
57	MG	14	3096	1/1	0.92	0.14	70,70,70,70	0
57	MG	14	3149	1/1	0.92	0.16	96,96,96,96	0
57	MG	13	1656	1/1	0.92	0.12	96,96,96,96	0
57	MG	13	1617	1/1	0.92	0.24	70,70,70,70	0
57	MG	14	3206	1/1	0.92	0.26	78,78,78,78	0
57	MG	13	1642	1/1	0.92	0.16	80,80,80,80	0
57	MG	14	3155	1/1	0.92	0.16	70,70,70,70	0
57	MG	1H	3080	1/1	0.92	0.17	81,81,81,81	0
57	MG	1G	1652	1/1	0.92	0.27	82,82,82,82	0
57	MG	1H	3084	1/1	0.92	0.14	53,53,53,53	0
57	MG	1H	3246	1/1	0.92	0.30	78,78,78,78	0
57	MG	1H	3068	1/1	0.92	0.17	63,63,63,63	0
57	MG	1H	3125	1/1	0.92	0.23	77,77,77,77	0
57	MG	14	3041	1/1	0.92	0.14	60,60,60,60	0
57	MG	1H	3003	1/1	0.92	0.14	53,53,53,53	0
57	MG	1H	3250	1/1	0.92	0.20	71,71,71,71	0
57	MG	1H	3127	1/1	0.92	0.21	63,63,63,63	0
57	MG	14	3219	1/1	0.92	0.34	81,81,81,81	0
57	MG	1H	3128	1/1	0.92	0.18	52,52,52,52	0
57	MG	1G	1625	1/1	0.92	0.21	81,81,81,81	0
57	MG	13	1622	1/1	0.92	0.22	65,65,65,65	0
57	MG	1H	3161	1/1	0.92	0.13	71,71,71,71	0
57	MG	13	1635	1/1	0.92	0.16	92,92,92,92	0
57	MG	29	301	1/1	0.92	0.23	67,67,67,67	0
57	MG	11	303	1/1	0.92	0.17	48,48,48,48	0
57	MG	1H	3163	1/1	0.92	0.28	65,65,65,65	0
57	MG	68	201	1/1	0.92	0.11	80,80,80,80	0
57	MG	1H	3192	1/1	0.92	0.13	66,66,66,66	0
57	MG	14	3005	1/1	0.92	0.20	61,61,61,61	0
57	MG	1H	3061	1/1	0.92	0.23	52,52,52,52	0
57	MG	14	3052	1/1	0.93	0.15	63,63,63,63	0
57	MG	1H	3041	1/1	0.93	0.17	68,68,68,68	0
57	MG	14	3057	1/1	0.93	0.12	78,78,78,78	0
57	MG	1H	3051	1/1	0.93	0.14	50,50,50,50	0
57	MG	14	3123	1/1	0.93	0.30	73,73,73,73	0
57	MG	1H	3231	1/1	0.93	0.30	79,79,79,79	0
57	MG	14	3061	1/1	0.93	0.31	67,67,67,67	0
57	MG	14	3184	1/1	0.93	0.25	75,75,75,75	0
57	MG	14	3185	1/1	0.93	0.28	71,71,71,71	0
57	MG	1H	3077	1/1	0.93	0.28	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1H	3197	1/1	0.93	0.12	53,53,53,53	0
57	MG	P8	101	1/1	0.93	0.20	65,65,65,65	0
57	MG	1H	3066	1/1	0.93	0.18	59,59,59,59	0
57	MG	14	3011	1/1	0.93	0.29	60,60,60,60	0
57	MG	1H	3005	1/1	0.93	0.22	51,51,51,51	0
57	MG	14	3070	1/1	0.93	0.20	74,74,74,74	0
57	MG	14	3135	1/1	0.93	0.28	74,74,74,74	0
57	MG	1H	3081	1/1	0.93	0.15	47,47,47,47	0
57	MG	1H	3201	1/1	0.93	0.21	68,68,68,68	0
57	MG	1H	3083	1/1	0.93	0.24	61,61,61,61	0
57	MG	14	3076	1/1	0.93	0.13	80,80,80,80	0
57	MG	14	3017	1/1	0.93	0.10	75,75,75,75	0
57	MG	1H	3102	1/1	0.93	0.07	82,82,82,82	0
57	MG	13	1669	1/1	0.93	0.26	79,79,79,79	0
57	MG	14	3145	1/1	0.93	0.17	64,64,64,64	0
57	MG	14	3146	1/1	0.93	0.19	71,71,71,71	0
57	MG	1H	3241	1/1	0.93	0.35	73,73,73,73	0
57	MG	1H	3008	1/1	0.93	0.16	53,53,53,53	0
57	MG	1H	3208	1/1	0.93	0.21	48,48,48,48	0
57	MG	14	3150	1/1	0.93	0.24	79,79,79,79	0
57	MG	14	3023	1/1	0.93	0.20	50,50,50,50	0
57	MG	1H	3210	1/1	0.93	0.12	70,70,70,70	0
57	MG	1G	1614	1/1	0.93	0.32	72,72,72,72	0
57	MG	14	3154	1/1	0.93	0.28	59,59,59,59	0
57	MG	1H	3059	1/1	0.93	0.15	75,75,75,75	0
57	MG	1H	3175	1/1	0.93	0.17	64,64,64,64	0
57	MG	1H	3046	1/1	0.93	0.30	75,75,75,75	0
57	MG	16	204	1/1	0.93	0.10	78,78,78,78	0
57	MG	14	3033	1/1	0.93	0.12	74,74,74,74	0
57	MG	1H	3156	1/1	0.93	0.28	81,81,81,81	0
57	MG	1H	3037	1/1	0.93	0.32	55,55,55,55	0
57	MG	14	3162	1/1	0.93	0.15	102,102,102,102	0
57	MG	14	3258	1/1	0.93	0.09	80,80,80,80	0
57	MG	2K	101	1/1	0.93	0.20	77,77,77,77	0
57	MG	14	3304	1/1	0.93	0.07	103,103,103,103	0
57	MG	1G	1624	1/1	0.93	0.23	71,71,71,71	0
57	MG	1H	3159	1/1	0.93	0.23	67,67,67,67	0
57	MG	11	302	1/1	0.93	0.13	48,48,48,48	0
57	MG	1H	3183	1/1	0.93	0.30	87,87,87,87	0
57	MG	13	1644	1/1	0.93	0.16	78,78,78,78	0
57	MG	1G	1664	1/1	0.93	0.30	87,87,87,87	0
57	MG	1H	3186	1/1	0.93	0.14	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1H	3138	1/1	0.93	0.10	67,67,67,67	0
57	MG	14	3050	1/1	0.93	0.19	63,63,63,63	0
57	MG	1H	3093	1/1	0.93	0.16	69,69,69,69	0
57	MG	1H	3220	1/1	0.94	0.23	62,62,62,62	0
57	MG	14	3054	1/1	0.94	0.24	53,53,53,53	0
57	MG	1H	3057	1/1	0.94	0.17	60,60,60,60	0
57	MG	1G	1607	1/1	0.94	0.13	98,98,98,98	0
57	MG	14	3107	1/1	0.94	0.18	76,76,76,76	0
57	MG	14	3059	1/1	0.94	0.40	45,45,45,45	0
57	MG	13	1649	1/1	0.94	0.06	97,97,97,97	0
57	MG	1H	3224	1/1	0.94	0.26	66,66,66,66	0
57	MG	16	208	1/1	0.94	0.06	102,102,102,102	0
57	MG	1H	3265	1/1	0.94	0.10	83,83,83,83	0
57	MG	14	3064	1/1	0.94	0.18	84,84,84,84	0
57	MG	14	3065	1/1	0.94	0.14	58,58,58,58	0
57	MG	1H	3136	1/1	0.94	0.08	55,55,55,55	0
57	MG	14	3116	1/1	0.94	0.14	60,60,60,60	0
57	MG	1H	3082	1/1	0.94	0.22	60,60,60,60	0
57	MG	14	3118	1/1	0.94	0.24	58,58,58,58	0
57	MG	14	3026	1/1	0.94	0.10	83,83,83,83	0
57	MG	1G	1668	1/1	0.94	0.07	120,120,120,120	0
57	MG	14	3121	1/1	0.94	0.07	65,65,65,65	0
57	MG	14	3028	1/1	0.94	0.19	67,67,67,67	0
57	MG	2L	101	1/1	0.94	0.10	80,80,80,80	0
57	MG	41	201	1/1	0.94	0.12	82,82,82,82	0
57	MG	1H	3013	1/1	0.94	0.16	63,63,63,63	0
57	MG	1H	3045	1/1	0.94	0.21	70,70,70,70	0
57	MG	14	3172	1/1	0.94	0.20	68,68,68,68	0
57	MG	1G	1617	1/1	0.94	0.16	88,88,88,88	0
57	MG	1H	3209	1/1	0.94	0.22	76,76,76,76	0
57	MG	14	3004	1/1	0.94	0.19	60,60,60,60	0
57	MG	13	1653	1/1	0.94	0.09	92,92,92,92	0
57	MG	14	3244	1/1	0.94	0.07	93,93,93,93	0
57	MG	14	3006	1/1	0.94	0.16	53,53,53,53	0
57	MG	1H	3274	1/1	0.94	0.29	86,86,86,86	0
57	MG	14	3293	1/1	0.94	0.12	84,84,84,84	0
57	MG	14	3302	1/1	0.94	0.11	106,106,106,106	0
57	MG	1H	3124	1/1	0.94	0.13	61,61,61,61	0
57	MG	14	3307	1/1	0.94	0.14	91,91,91,91	0
57	MG	1H	3034	1/1	0.94	0.11	62,62,62,62	0
57	MG	14	3094	1/1	0.94	0.27	94,94,94,94	0
57	MG	1H	3213	1/1	0.94	0.34	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	14	3046	1/1	0.94	0.21	61,61,61,61	0
57	MG	1H	3160	1/1	0.94	0.18	67,67,67,67	0
57	MG	1H	3088	1/1	0.94	0.20	65,65,65,65	0
57	MG	1H	3015	1/1	0.94	0.15	52,52,52,52	0
57	MG	1H	3113	1/1	0.94	0.20	81,81,81,81	0
57	MG	1H	3079	1/1	0.94	0.21	66,66,66,66	0
57	MG	14	3190	1/1	0.94	0.23	72,72,72,72	0
57	MG	1H	3149	1/1	0.95	0.07	61,61,61,61	0
57	MG	1H	3058	1/1	0.95	0.06	71,71,71,71	0
57	MG	14	3071	1/1	0.95	0.15	68,68,68,68	0
57	MG	1H	3272	1/1	0.95	0.18	71,71,71,71	0
57	MG	1H	3273	1/1	0.95	0.29	85,85,85,85	0
57	MG	13	1698	1/1	0.95	0.09	105,105,105,105	0
57	MG	13	1606	1/1	0.95	0.14	83,83,83,83	0
57	MG	14	3163	1/1	0.95	0.23	72,72,72,72	0
57	MG	1H	3187	1/1	0.95	0.33	81,81,81,81	0
57	MG	1H	3278	1/1	0.95	0.34	68,68,68,68	0
57	MG	1H	3135	1/1	0.95	0.30	74,74,74,74	0
57	MG	1H	3189	1/1	0.95	0.17	70,70,70,70	0
57	MG	1H	3205	1/1	0.95	0.18	73,73,73,73	0
57	MG	14	3126	1/1	0.95	0.27	66,66,66,66	0
57	MG	1G	1626	1/1	0.95	0.15	81,81,81,81	0
57	MG	14	3047	1/1	0.95	0.28	56,56,56,56	0
57	MG	1H	3363	1/1	0.95	0.10	69,69,69,69	0
57	MG	14	3091	1/1	0.95	0.16	69,69,69,69	0
57	MG	14	3092	1/1	0.95	0.33	79,79,79,79	0
57	MG	14	3093	1/1	0.95	0.13	62,62,62,62	0
57	MG	1H	3392	1/1	0.95	0.13	96,96,96,96	0
57	MG	1H	3425	1/1	0.95	0.07	110,110,110,110	0
57	MG	1H	3154	1/1	0.95	0.23	101,101,101,101	0
57	MG	14	3228	1/1	0.95	0.05	69,69,69,69	0
57	MG	1G	1604	1/1	0.95	0.13	91,91,91,91	0
57	MG	1H	3007	1/1	0.95	0.19	47,47,47,47	0
57	MG	14	3281	1/1	0.95	0.07	95,95,95,95	0
57	MG	1H	3261	1/1	0.95	0.32	80,80,80,80	0
57	MG	14	3056	1/1	0.95	0.11	65,65,65,65	0
57	MG	13	1608	1/1	0.95	0.12	88,88,88,88	0
57	MG	1H	3227	1/1	0.95	0.20	66,66,66,66	0
57	MG	1H	3193	1/1	0.95	0.18	65,65,65,65	0
57	MG	14	3310	1/1	0.95	0.07	102,102,102,102	0
57	MG	14	3318	1/1	0.95	0.06	84,84,84,84	0
57	MG	14	3325	1/1	0.95	0.12	104,104,104,104	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	14	3104	1/1	0.95	0.23	68,68,68,68	0
57	MG	1H	3195	1/1	0.95	0.23	70,70,70,70	0
57	MG	1G	1665	1/1	0.95	0.05	117,117,117,117	0
57	MG	1H	3094	1/1	0.95	0.16	60,60,60,60	0
57	MG	1G	1669	1/1	0.95	0.06	129,129,129,129	0
57	MG	35	201	1/1	0.95	0.10	77,77,77,77	0
57	MG	1G	1670	1/1	0.95	0.07	129,129,129,129	0
57	MG	1G	1671	1/1	0.95	0.06	117,117,117,117	0
57	MG	1H	3004	1/1	0.95	0.18	56,56,56,56	0
57	MG	1H	3214	1/1	0.95	0.21	55,55,55,55	0
57	MG	14	3031	1/1	0.95	0.18	73,73,73,73	0
57	MG	14	3082	1/1	0.96	0.09	63,63,63,63	0
57	MG	1H	3035	1/1	0.96	0.11	64,64,64,64	0
57	MG	1H	3132	1/1	0.96	0.10	49,49,49,49	0
57	MG	1H	3119	1/1	0.96	0.26	62,62,62,62	0
57	MG	13	1620	1/1	0.96	0.06	61,61,61,61	0
57	MG	1H	3108	1/1	0.96	0.26	73,73,73,73	0
57	MG	1H	3055	1/1	0.96	0.17	64,64,64,64	0
57	MG	14	3089	1/1	0.96	0.09	56,56,56,56	0
57	MG	14	3090	1/1	0.96	0.15	77,77,77,77	0
57	MG	1H	3139	1/1	0.96	0.19	62,62,62,62	0
57	MG	14	3130	1/1	0.96	0.10	84,84,84,84	0
57	MG	1H	3123	1/1	0.96	0.14	58,58,58,58	0
57	MG	1H	3223	1/1	0.96	0.29	63,63,63,63	0
57	MG	1G	1623	1/1	0.96	0.25	66,66,66,66	0
57	MG	13	1651	1/1	0.96	0.06	110,110,110,110	0
57	MG	1H	3038	1/1	0.96	0.10	55,55,55,55	0
57	MG	1H	3287	1/1	0.96	0.06	71,71,71,71	0
57	MG	1H	3312	1/1	0.96	0.14	93,93,93,93	0
57	MG	1H	3243	1/1	0.96	0.24	65,65,65,65	0
57	MG	14	3234	1/1	0.96	0.07	86,86,86,86	0
57	MG	14	3237	1/1	0.96	0.09	69,69,69,69	0
57	MG	14	3140	1/1	0.96	0.09	54,54,54,54	0
57	MG	14	3248	1/1	0.96	0.07	103,103,103,103	0
57	MG	14	3254	1/1	0.96	0.07	69,69,69,69	0
57	MG	1H	3320	1/1	0.96	0.06	76,76,76,76	0
57	MG	14	3260	1/1	0.96	0.06	86,86,86,86	0
57	MG	14	3263	1/1	0.96	0.06	99,99,99,99	0
57	MG	14	3278	1/1	0.96	0.04	109,109,109,109	0
57	MG	14	3280	1/1	0.96	0.10	75,75,75,75	0
57	MG	1H	3326	1/1	0.96	0.08	105,105,105,105	0
57	MG	14	3288	1/1	0.96	0.06	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1H	3335	1/1	0.96	0.08	74,74,74,74	0
57	MG	13	1609	1/1	0.96	0.21	82,82,82,82	0
57	MG	14	3294	1/1	0.96	0.07	107,107,107,107	0
57	MG	14	3296	1/1	0.96	0.06	110,110,110,110	0
57	MG	1H	3376	1/1	0.96	0.07	90,90,90,90	0
57	MG	1H	3377	1/1	0.96	0.06	103,103,103,103	0
57	MG	1H	3263	1/1	0.96	0.39	75,75,75,75	0
57	MG	14	3308	1/1	0.96	0.07	106,106,106,106	0
57	MG	1H	3400	1/1	0.96	0.10	85,85,85,85	0
57	MG	1H	3404	1/1	0.96	0.05	110,110,110,110	0
57	MG	13	1678	1/1	0.96	0.06	106,106,106,106	0
57	MG	14	3327	1/1	0.96	0.07	108,108,108,108	0
57	MG	1H	3427	1/1	0.96	0.05	122,122,122,122	0
57	MG	1H	3439	1/1	0.96	0.08	65,65,65,65	0
57	MG	1H	3444	1/1	0.96	0.08	96,96,96,96	0
57	MG	14	3037	1/1	0.96	0.15	61,61,61,61	0
57	MG	14	3038	1/1	0.96	0.21	55,55,55,55	0
57	MG	1H	3194	1/1	0.96	0.10	83,83,83,83	0
57	MG	14	3198	1/1	0.96	0.23	86,86,86,86	0
57	MG	13	1605	1/1	0.96	0.12	75,75,75,75	0
57	MG	14	3079	1/1	0.96	0.16	56,56,56,56	0
57	MG	13	1694	1/1	0.96	0.06	111,111,111,111	0
57	MG	13	1654	1/1	0.96	0.07	133,133,133,133	0
57	MG	1H	3418	1/1	0.97	0.10	82,82,82,82	0
57	MG	13	1675	1/1	0.97	0.05	70,70,70,70	0
57	MG	1H	3426	1/1	0.97	0.06	97,97,97,97	0
57	MG	13	1619	1/1	0.97	0.15	72,72,72,72	0
57	MG	14	3232	1/1	0.97	0.08	67,67,67,67	0
57	MG	1H	3428	1/1	0.97	0.07	103,103,103,103	0
57	MG	1H	3435	1/1	0.97	0.11	90,90,90,90	0
57	MG	14	3238	1/1	0.97	0.08	76,76,76,76	0
57	MG	14	3241	1/1	0.97	0.10	69,69,69,69	0
57	MG	1H	3281	1/1	0.97	0.06	55,55,55,55	0
57	MG	1G	1672	1/1	0.97	0.05	117,117,117,117	0
57	MG	1H	3086	1/1	0.97	0.25	48,48,48,48	0
57	MG	1H	3301	1/1	0.97	0.08	61,61,61,61	0
57	MG	1H	3033	1/1	0.97	0.08	54,54,54,54	0
57	MG	14	3072	1/1	0.97	0.09	62,62,62,62	0
57	MG	14	3268	1/1	0.97	0.05	84,84,84,84	0
57	MG	14	3271	1/1	0.97	0.07	92,92,92,92	0
57	MG	14	3276	1/1	0.97	0.07	83,83,83,83	0
57	MG	1H	3313	1/1	0.97	0.05	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	14	3036	1/1	0.97	0.29	64,64,64,64	0
57	MG	1H	3106	1/1	0.97	0.33	69,69,69,69	0
57	MG	1G	1643	1/1	0.97	0.10	97,97,97,97	0
57	MG	14	3078	1/1	0.97	0.07	70,70,70,70	0
57	MG	14	3003	1/1	0.97	0.13	54,54,54,54	0
57	MG	1H	3117	1/1	0.97	0.17	74,74,74,74	0
57	MG	1H	3321	1/1	0.97	0.07	74,74,74,74	0
57	MG	1H	3322	1/1	0.97	0.08	74,74,74,74	0
57	MG	13	1699	1/1	0.97	0.04	119,119,119,119	0
57	MG	16	211	1/1	0.97	0.07	99,99,99,99	0
57	MG	1H	3056	1/1	0.97	0.11	46,46,46,46	0
57	MG	1H	3336	1/1	0.97	0.05	67,67,67,67	0
57	MG	14	3312	1/1	0.97	0.03	115,115,115,115	0
57	MG	14	3315	1/1	0.97	0.06	80,80,80,80	0
57	MG	14	3316	1/1	0.97	0.06	88,88,88,88	0
57	MG	1H	3344	1/1	0.97	0.08	57,57,57,57	0
57	MG	13	1686	1/1	0.97	0.05	89,89,89,89	0
57	MG	1H	3029	1/1	0.97	0.10	55,55,55,55	0
57	MG	14	3014	1/1	0.97	0.12	72,72,72,72	0
57	MG	1H	3133	1/1	0.97	0.15	54,54,54,54	0
57	MG	1H	3379	1/1	0.97	0.05	83,83,83,83	0
57	MG	1H	3134	1/1	0.97	0.27	62,62,62,62	0
57	MG	1H	3394	1/1	0.97	0.07	83,83,83,83	0
57	MG	13	1674	1/1	0.97	0.04	83,83,83,83	0
57	MG	I8	101	1/1	0.97	0.08	91,91,91,91	0
57	MG	1H	3177	1/1	0.97	0.11	57,57,57,57	0
57	MG	14	3136	1/1	0.97	0.12	66,66,66,66	0
57	MG	1H	3408	1/1	0.97	0.12	67,67,67,67	0
57	MG	1H	3410	1/1	0.97	0.08	102,102,102,102	0
57	MG	1H	3440	1/1	0.98	0.04	64,64,64,64	0
57	MG	1H	3441	1/1	0.98	0.06	70,70,70,70	0
57	MG	1H	3443	1/1	0.98	0.04	100,100,100,100	0
57	MG	1H	3026	1/1	0.98	0.08	62,62,62,62	0
57	MG	13	1687	1/1	0.98	0.06	103,103,103,103	0
57	MG	1H	3315	1/1	0.98	0.15	81,81,81,81	0
57	MG	1H	3317	1/1	0.98	0.05	76,76,76,76	0
57	MG	1H	3318	1/1	0.98	0.04	55,55,55,55	0
57	MG	1H	3185	1/1	0.98	0.05	121,121,121,121	0
57	MG	13	1688	1/1	0.98	0.09	74,74,74,74	0
57	MG	1H	3155	1/1	0.98	0.12	68,68,68,68	0
57	MG	13	1689	1/1	0.98	0.04	115,115,115,115	0
57	MG	1H	3327	1/1	0.98	0.13	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1H	3328	1/1	0.98	0.04	91,91,91,91	0
57	MG	1H	3329	1/1	0.98	0.11	80,80,80,80	0
57	MG	13	1677	1/1	0.98	0.08	98,98,98,98	0
57	MG	1H	3206	1/1	0.98	0.18	73,73,73,73	0
57	MG	1H	3340	1/1	0.98	0.04	64,64,64,64	0
57	MG	1H	3342	1/1	0.98	0.06	63,63,63,63	0
57	MG	13	1660	1/1	0.98	0.17	61,61,61,61	0
57	MG	1H	3348	1/1	0.98	0.14	90,90,90,90	0
57	MG	1H	3349	1/1	0.98	0.04	68,68,68,68	0
57	MG	1G	1666	1/1	0.98	0.05	89,89,89,89	0
57	MG	88	201	1/1	0.98	0.08	76,76,76,76	0
57	MG	1H	3351	1/1	0.98	0.07	79,79,79,79	0
57	MG	1H	3354	1/1	0.98	0.06	66,66,66,66	0
57	MG	1H	3356	1/1	0.98	0.07	81,81,81,81	0
57	MG	1H	3357	1/1	0.98	0.06	77,77,77,77	0
57	MG	1H	3276	1/1	0.98	0.21	67,67,67,67	0
57	MG	14	3225	1/1	0.98	0.06	55,55,55,55	0
57	MG	1H	3367	1/1	0.98	0.04	90,90,90,90	0
57	MG	14	3229	1/1	0.98	0.04	82,82,82,82	0
57	MG	14	3231	1/1	0.98	0.05	66,66,66,66	0
57	MG	1H	3371	1/1	0.98	0.04	66,66,66,66	0
57	MG	14	3233	1/1	0.98	0.05	82,82,82,82	0
57	MG	13	1696	1/1	0.98	0.03	101,101,101,101	0
57	MG	13	1680	1/1	0.98	0.04	91,91,91,91	0
57	MG	13	1681	1/1	0.98	0.05	71,71,71,71	0
57	MG	14	3239	1/1	0.98	0.07	92,92,92,92	0
57	MG	14	3077	1/1	0.98	0.07	61,61,61,61	0
57	MG	1H	3381	1/1	0.98	0.09	58,58,58,58	0
57	MG	1H	3382	1/1	0.98	0.07	74,74,74,74	0
57	MG	14	3250	1/1	0.98	0.05	56,56,56,56	0
57	MG	1H	3385	1/1	0.98	0.07	112,112,112,112	0
57	MG	14	3255	1/1	0.98	0.05	72,72,72,72	0
57	MG	14	3257	1/1	0.98	0.05	89,89,89,89	0
57	MG	1H	3388	1/1	0.98	0.04	75,75,75,75	0
57	MG	1H	3389	1/1	0.98	0.04	87,87,87,87	0
57	MG	1H	3390	1/1	0.98	0.08	99,99,99,99	0
57	MG	14	3264	1/1	0.98	0.06	57,57,57,57	0
57	MG	14	3266	1/1	0.98	0.07	73,73,73,73	0
57	MG	1H	3391	1/1	0.98	0.05	91,91,91,91	0
57	MG	14	3269	1/1	0.98	0.05	108,108,108,108	0
57	MG	14	3270	1/1	0.98	0.04	97,97,97,97	0
57	MG	13	1682	1/1	0.98	0.14	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	14	3273	1/1	0.98	0.06	69,69,69,69	0
57	MG	14	3274	1/1	0.98	0.06	74,74,74,74	0
57	MG	14	3275	1/1	0.98	0.04	90,90,90,90	0
57	MG	1H	3009	1/1	0.98	0.16	47,47,47,47	0
57	MG	14	3277	1/1	0.98	0.04	98,98,98,98	0
57	MG	1H	3396	1/1	0.98	0.06	80,80,80,80	0
57	MG	1H	3398	1/1	0.98	0.03	98,98,98,98	0
57	MG	1H	3399	1/1	0.98	0.03	111,111,111,111	0
57	MG	14	3283	1/1	0.98	0.04	74,74,74,74	0
57	MG	14	3284	1/1	0.98	0.06	84,84,84,84	0
57	MG	14	3287	1/1	0.98	0.05	101,101,101,101	0
57	MG	1H	3282	1/1	0.98	0.05	65,65,65,65	0
57	MG	14	3290	1/1	0.98	0.04	114,114,114,114	0
57	MG	1H	3401	1/1	0.98	0.08	80,80,80,80	0
57	MG	1H	3402	1/1	0.98	0.04	88,88,88,88	0
57	MG	13	1683	1/1	0.98	0.04	96,96,96,96	0
57	MG	14	3295	1/1	0.98	0.05	78,78,78,78	0
57	MG	1H	3407	1/1	0.98	0.07	77,77,77,77	0
57	MG	14	3297	1/1	0.98	0.05	92,92,92,92	0
57	MG	14	3299	1/1	0.98	0.03	114,114,114,114	0
57	MG	1H	3295	1/1	0.98	0.05	76,76,76,76	0
57	MG	1H	3409	1/1	0.98	0.04	99,99,99,99	0
57	MG	14	3305	1/1	0.98	0.09	74,74,74,74	0
57	MG	1H	3296	1/1	0.98	0.06	51,51,51,51	0
57	MG	1H	3411	1/1	0.98	0.06	133,133,133,133	0
57	MG	1H	3414	1/1	0.98	0.10	87,87,87,87	0
57	MG	14	3311	1/1	0.98	0.05	78,78,78,78	0
57	MG	1H	3300	1/1	0.98	0.05	68,68,68,68	0
57	MG	14	3313	1/1	0.98	0.05	101,101,101,101	0
57	MG	14	3314	1/1	0.98	0.03	91,91,91,91	0
57	MG	1H	3419	1/1	0.98	0.07	83,83,83,83	0
57	MG	1H	3421	1/1	0.98	0.03	104,104,104,104	0
57	MG	1H	3422	1/1	0.98	0.07	86,86,86,86	0
57	MG	1H	3423	1/1	0.98	0.12	65,65,65,65	0
57	MG	13	1684	1/1	0.98	0.04	95,95,95,95	0
57	MG	1H	3302	1/1	0.98	0.05	60,60,60,60	0
57	MG	1H	3303	1/1	0.98	0.06	61,61,61,61	0
57	MG	1H	3308	1/1	0.98	0.06	91,91,91,91	0
57	MG	1H	3429	1/1	0.98	0.07	60,60,60,60	0
57	MG	1H	3431	1/1	0.98	0.05	66,66,66,66	0
57	MG	25	201	1/1	0.98	0.04	111,111,111,111	0
57	MG	1H	3432	1/1	0.98	0.11	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	1H	3433	1/1	0.98	0.06	56,56,56,56	0
57	MG	1H	3434	1/1	0.98	0.04	68,68,68,68	0
57	MG	1H	3310	1/1	0.98	0.04	91,91,91,91	0
58	ZN	3E	302	1/1	0.98	0.17	95,95,95,95	0
57	MG	1H	3437	1/1	0.98	0.05	64,64,64,64	0
57	MG	13	1676	1/1	0.98	0.04	110,110,110,110	0
57	MG	1H	3286	1/1	0.99	0.03	62,62,62,62	0
57	MG	1H	3368	1/1	0.99	0.03	65,65,65,65	0
57	MG	14	3055	1/1	0.99	0.07	62,62,62,62	0
57	MG	1H	3369	1/1	0.99	0.04	60,60,60,60	0
57	MG	1H	3370	1/1	0.99	0.05	60,60,60,60	0
57	MG	13	1679	1/1	0.99	0.04	100,100,100,100	0
57	MG	1H	3372	1/1	0.99	0.11	62,62,62,62	0
57	MG	14	3221	1/1	0.99	0.04	67,67,67,67	0
57	MG	14	3223	1/1	0.99	0.03	79,79,79,79	0
57	MG	14	3224	1/1	0.99	0.05	55,55,55,55	0
57	MG	1H	3373	1/1	0.99	0.10	55,55,55,55	0
57	MG	14	3227	1/1	0.99	0.04	64,64,64,64	0
57	MG	1H	3374	1/1	0.99	0.06	83,83,83,83	0
57	MG	1H	3316	1/1	0.99	0.04	75,75,75,75	0
57	MG	14	3230	1/1	0.99	0.03	65,65,65,65	0
57	MG	16	209	1/1	0.99	0.03	76,76,76,76	0
57	MG	16	210	1/1	0.99	0.05	88,88,88,88	0
57	MG	1H	3289	1/1	0.99	0.03	48,48,48,48	0
57	MG	1H	3378	1/1	0.99	0.04	59,59,59,59	0
57	MG	14	3235	1/1	0.99	0.03	66,66,66,66	0
57	MG	14	3236	1/1	0.99	0.05	63,63,63,63	0
57	MG	1H	3291	1/1	0.99	0.04	56,56,56,56	0
57	MG	1H	3380	1/1	0.99	0.07	57,57,57,57	0
57	MG	1H	3319	1/1	0.99	0.03	60,60,60,60	0
57	MG	14	3240	1/1	0.99	0.03	71,71,71,71	0
57	MG	1H	3292	1/1	0.99	0.09	58,58,58,58	0
57	MG	14	3242	1/1	0.99	0.03	65,65,65,65	0
57	MG	14	3243	1/1	0.99	0.04	74,74,74,74	0
57	MG	1G	1667	1/1	0.99	0.05	98,98,98,98	0
57	MG	14	3245	1/1	0.99	0.02	99,99,99,99	0
57	MG	14	3246	1/1	0.99	0.06	96,96,96,96	0
57	MG	14	3247	1/1	0.99	0.03	65,65,65,65	0
57	MG	1H	3383	1/1	0.99	0.12	82,82,82,82	0
57	MG	14	3249	1/1	0.99	0.04	62,62,62,62	0
57	MG	1H	3384	1/1	0.99	0.05	68,68,68,68	0
57	MG	14	3252	1/1	0.99	0.03	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	14	3253	1/1	0.99	0.03	66,66,66,66	0
57	MG	1H	3293	1/1	0.99	0.03	62,62,62,62	0
57	MG	1H	3386	1/1	0.99	0.06	96,96,96,96	0
57	MG	14	3256	1/1	0.99	0.03	57,57,57,57	0
57	MG	1H	3387	1/1	0.99	0.05	82,82,82,82	0
57	MG	1H	3294	1/1	0.99	0.06	65,65,65,65	0
57	MG	14	3259	1/1	0.99	0.06	71,71,71,71	0
57	MG	1H	3323	1/1	0.99	0.05	83,83,83,83	0
57	MG	14	3262	1/1	0.99	0.06	55,55,55,55	0
57	MG	I8	102	1/1	0.99	0.08	69,69,69,69	0
57	MG	1H	3324	1/1	0.99	0.08	76,76,76,76	0
57	MG	14	3265	1/1	0.99	0.04	72,72,72,72	0
57	MG	1H	3325	1/1	0.99	0.03	75,75,75,75	0
57	MG	14	3267	1/1	0.99	0.04	48,48,48,48	0
57	MG	13	1685	1/1	0.99	0.04	93,93,93,93	0
57	MG	1H	3393	1/1	0.99	0.03	58,58,58,58	0
57	MG	13	1695	1/1	0.99	0.03	87,87,87,87	0
57	MG	1H	3395	1/1	0.99	0.06	73,73,73,73	0
57	MG	1H	3298	1/1	0.99	0.04	65,65,65,65	0
57	MG	1H	3397	1/1	0.99	0.03	76,76,76,76	0
57	MG	13	1690	1/1	0.99	0.03	83,83,83,83	0
57	MG	1H	3331	1/1	0.99	0.04	74,74,74,74	0
57	MG	1H	3332	1/1	0.99	0.05	49,49,49,49	0
57	MG	1H	3333	1/1	0.99	0.07	54,54,54,54	0
57	MG	14	3279	1/1	0.99	0.04	69,69,69,69	0
57	MG	1H	3334	1/1	0.99	0.05	54,54,54,54	0
57	MG	14	3173	1/1	0.99	0.15	44,44,44,44	0
57	MG	14	3282	1/1	0.99	0.09	92,92,92,92	0
57	MG	1H	3403	1/1	0.99	0.04	76,76,76,76	0
57	MG	13	1697	1/1	0.99	0.04	76,76,76,76	0
57	MG	14	3286	1/1	0.99	0.10	91,91,91,91	0
57	MG	1H	3405	1/1	0.99	0.04	72,72,72,72	0
57	MG	1H	3406	1/1	0.99	0.05	106,106,106,106	0
57	MG	14	3289	1/1	0.99	0.03	106,106,106,106	0
57	MG	1H	3176	1/1	0.99	0.11	42,42,42,42	0
57	MG	1H	3337	1/1	0.99	0.04	65,65,65,65	0
57	MG	14	3292	1/1	0.99	0.04	91,91,91,91	0
57	MG	1H	3338	1/1	0.99	0.03	60,60,60,60	0
57	MG	13	1691	1/1	0.99	0.05	78,78,78,78	0
57	MG	1H	3341	1/1	0.99	0.08	47,47,47,47	0
57	MG	1H	3412	1/1	0.99	0.07	94,94,94,94	0
57	MG	1H	3304	1/1	0.99	0.05	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
57	MG	14	3298	1/1	0.99	0.03	78,78,78,78	0
57	MG	1H	3415	1/1	0.99	0.03	105,105,105,105	0
57	MG	14	3300	1/1	0.99	0.03	87,87,87,87	0
57	MG	14	3301	1/1	0.99	0.07	92,92,92,92	0
57	MG	1H	3416	1/1	0.99	0.09	81,81,81,81	0
57	MG	14	3303	1/1	0.99	0.10	85,85,85,85	0
57	MG	1H	3417	1/1	0.99	0.06	73,73,73,73	0
57	MG	1H	3343	1/1	0.99	0.06	57,57,57,57	0
57	MG	14	3306	1/1	0.99	0.06	82,82,82,82	0
57	MG	1H	3305	1/1	0.99	0.04	49,49,49,49	0
57	MG	1H	3420	1/1	0.99	0.04	60,60,60,60	0
57	MG	14	3309	1/1	0.99	0.04	86,86,86,86	0
57	MG	1H	3346	1/1	0.99	0.05	58,58,58,58	0
57	MG	1H	3306	1/1	0.99	0.04	70,70,70,70	0
57	MG	1H	3307	1/1	0.99	0.02	114,114,114,114	0
57	MG	1H	3424	1/1	0.99	0.03	94,94,94,94	0
57	MG	1H	3350	1/1	0.99	0.03	74,74,74,74	0
57	MG	13	1692	1/1	0.99	0.03	100,100,100,100	0
57	MG	1H	3352	1/1	0.99	0.09	68,68,68,68	0
57	MG	14	3317	1/1	0.99	0.07	76,76,76,76	0
57	MG	1H	3353	1/1	0.99	0.11	62,62,62,62	0
57	MG	14	3320	1/1	0.99	0.04	73,73,73,73	0
57	MG	14	3321	1/1	0.99	0.03	78,78,78,78	0
57	MG	14	3322	1/1	0.99	0.03	79,79,79,79	0
57	MG	14	3323	1/1	0.99	0.03	73,73,73,73	0
57	MG	14	3324	1/1	0.99	0.04	77,77,77,77	0
57	MG	1H	3283	1/1	0.99	0.04	65,65,65,65	0
57	MG	14	3326	1/1	0.99	0.03	104,104,104,104	0
57	MG	1H	3430	1/1	0.99	0.03	50,50,50,50	0
57	MG	1H	3311	1/1	0.99	0.04	70,70,70,70	0
57	MG	1H	3284	1/1	0.99	0.05	51,51,51,51	0
57	MG	1H	3359	1/1	0.99	0.03	79,79,79,79	0
57	MG	1H	3360	1/1	0.99	0.03	67,67,67,67	0
57	MG	1H	3361	1/1	0.99	0.08	95,95,95,95	0
57	MG	1H	3436	1/1	0.99	0.05	50,50,50,50	0
57	MG	1H	3362	1/1	0.99	0.05	60,60,60,60	0
57	MG	1H	3438	1/1	0.99	0.06	55,55,55,55	0
57	MG	1H	3285	1/1	0.99	0.04	53,53,53,53	0
57	MG	1H	3364	1/1	0.99	0.03	93,93,93,93	0
57	MG	1H	3365	1/1	0.99	0.03	68,68,68,68	0
58	ZN	5I	101	1/1	0.99	0.03	100,100,100,100	0
57	MG	1H	3442	1/1	0.99	0.06	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	ZN	32	301	1/1	0.99	0.17	117,117,117,117	0
58	ZN	5A	101	1/1	0.99	0.03	139,139,139,139	0
57	MG	1H	3366	1/1	0.99	0.03	75,75,75,75	0
57	MG	14	3285	1/1	1.00	0.03	87,87,87,87	0
57	MG	1H	3347	1/1	1.00	0.03	64,64,64,64	0
57	MG	14	3251	1/1	1.00	0.04	77,77,77,77	0
57	MG	1H	3358	1/1	1.00	0.03	73,73,73,73	0
57	MG	14	3222	1/1	1.00	0.03	62,62,62,62	0
57	MG	1H	3339	1/1	1.00	0.05	50,50,50,50	0
57	MG	14	3272	1/1	1.00	0.05	58,58,58,58	0
57	MG	1H	3299	1/1	1.00	0.04	49,49,49,49	0
57	MG	1H	3290	1/1	1.00	0.04	49,49,49,49	0
57	MG	14	3226	1/1	1.00	0.02	67,67,67,67	0
57	MG	1H	3309	1/1	1.00	0.02	66,66,66,66	0
57	MG	1H	3330	1/1	1.00	0.02	49,49,49,49	0
57	MG	1H	3375	1/1	1.00	0.07	60,60,60,60	0
57	MG	14	3261	1/1	1.00	0.04	56,56,56,56	0
57	MG	1H	3297	1/1	1.00	0.01	47,47,47,47	0
57	MG	14	3319	1/1	1.00	0.04	63,63,63,63	0
57	MG	1H	3413	1/1	1.00	0.02	57,57,57,57	0
57	MG	1H	3345	1/1	1.00	0.02	53,53,53,53	0
57	MG	1H	3355	1/1	1.00	0.02	56,56,56,56	0
57	MG	1H	3288	1/1	1.00	0.04	55,55,55,55	0

6.5 Other polymers (i)

There are no such residues in this entry.