Full wwPDB X-ray Structure Validation Report ⓘ

Sep 16, 2026 – 02:16 am BST

PDB ID	:	5LYB / pdb_00005lyb
Title	:	Crystal structure of the S.cerevisiae 80S ribosome in complex with the A-site bound aminoacyl-tRNA analog ACCPmn
Authors	:	Melnikov, S.; Mailliot, J.
Deposited on	:	2016-09-26
Resolution	:	3.25 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

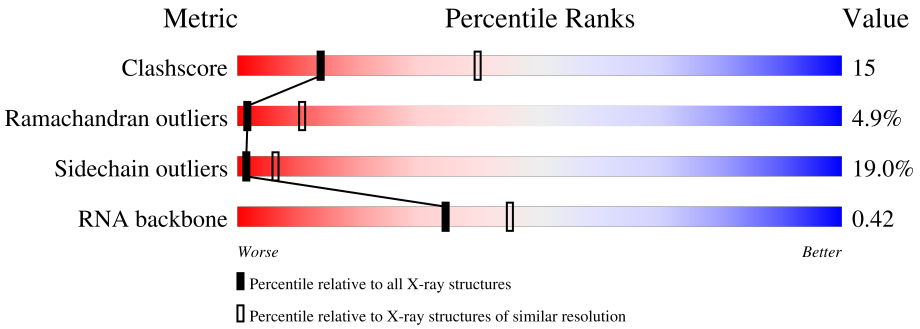
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	2.0
EDS	:	FAILED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

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 3.25 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))
Clashscore	190562	1660 (3.30-3.22)
Ramachandran outliers	187476	1630 (3.30-3.22)
Sidechain outliers	187428	1629 (3.30-3.22)
RNA backbone	3983	1006 (3.54-2.98)

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%

Note EDS failed to run properly.

Mol	Chain	Length	Quality of chain
1	2	1800	40% 43% 15%
1	6	1800	43% 41% 15%
2	S0	206	42% 45% 12%
2	s0	206	45% 44% 10%
3	S1	216	37% 44% 18%
3	s1	216	50% 37% 12%

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Mol	Chain	Length	Quality of chain
4	S2	217	53% 35% 12%
4	s2	217	47% 42% 10%
5	S3	223	56% 33% 10%
5	s3	223	57% 34% 9% •
6	S4	260	52% 37% 11%
6	s4	260	53% 37% 8% •
7	S5	206	55% 34% 10% •
7	s5	206	49% 39% 12%
8	S6	226	57% 34% 9%
8	s6	226	54% 33% 8% • •
9	S7	186	41% 41% 16% ••
9	s7	186	51% 40% 9% •
10	S8	199	56% 30% 8% • 6%
10	s8	199	57% 30% 7% • 6%
11	S9	185	53% 36% 10% •
11	s9	185	47% 42% 10% •
12	C0	96	42% 46% 12%
13	C1	155	62% 27% 11%
13	c1	155	49% 35% 10% 6%
14	C2	124	44% 40% 12% •
15	C3	150	58% 35% 5% •
15	c3	150	55% 35% 9% •
16	C4	128	59% 30% 11% •
16	c4	128	49% 37% 12% •
17	C5	131	46% 37% 11% • 5%

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Mol	Chain	Length	Quality of chain
18	C6	142	48% 38% 13%
18	c6	142	51% 41% 8%
19	C7	125	44% 41% 9%
19	c7	125	52% 34% 6% 6%
20	C8	145	39% 41% 19%
20	c8	145	54% 32% 12%
21	C9	143	49% 41% 9%
21	c9	143	57% 36% 6%
22	D0	110	39% 44% 15%
22	d0	110	48% 30% 20%
23	D1	87	48% 39% 13%
23	d1	87	49% 41% 9%
24	D2	129	56% 33% 12%
24	d2	129	60% 33% 6%
25	D3	144	49% 44% 6%
25	d3	144	67% 26% 8%
26	D4	134	61% 28% 10%
26	d4	134	48% 40% 12%
27	D5	70	37% 47% 13%
27	d5	70	49% 36% 13%
28	D6	97	41% 43% 8% 7%
28	d6	97	61% 31% 8%
29	D7	81	59% 33% 7%
29	d7	81	54% 37% 9%
30	D8	63	44% 43% 13%

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Mol	Chain	Length	Quality of chain
30	d8	63	44% 44% 11%
31	D9	53	60% 30% 9%
31	d9	53	66% 32%
32	E0	62	60% 31%
32	e0	62	52% 31% 16%
33	E1	76	37% 43% 13% 7%
33	e1	76	37% 41% 16% 7%
34	SR	318	59% 36% 5%
35	SM	159	66% 25% 7%
36	1	3394	45% 37% 11% 7%
36	5	3394	43% 38% 11% 7%
37	3	121	42% 50% 7%
37	7	121	53% 41% 6%
38	4	158	44% 46% 10%
38	8	158	41% 46% 13%
39	L2	252	62% 31% 7%
39	l2	252	53% 39% 7%
40	L3	386	47% 44% 9%
40	l3	386	50% 40% 10%
41	L4	361	48% 39% 13%
41	l4	361	54% 37% 9%
42	L5	296	51% 39% 10%
42	l5	296	50% 40% 9%
43	L6	175	55% 28% 11%
43	l6	175	54% 30% 6% 10%

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Mol	Chain	Length	Quality of chain
44	L7	223	56% 36% 7%
44	l7	223	60% 31% 9%
45	L8	233	60% 31% 8%
46	L9	191	53% 33% 14%
46	l9	191	46% 37% 17%
47	M0	220	45% 40% 10%
47	m0	220	45% 39% 13%
48	M1	169	51% 35% 12%
48	m1	169	54% 35% 9%
49	M3	194	55% 35% 8%
49	m3	194	58% 31% 10%
50	M4	137	57% 31% 10%
50	m4	137	60% 30% 10%
51	M5	203	54% 36% 8%
51	m5	203	57% 38% 5%
52	M6	197	65% 28% 6%
52	m6	197	66% 25% 8%
53	M7	183	55% 37% 8%
53	m7	183	45% 32% 8% 15%
54	M8	185	52% 41% 8%
54	m8	185	54% 37% 9%
55	M9	188	57% 32% 11%
55	m9	188	64% 28% 7%
56	N0	172	52% 37% 10%
56	n0	172	68% 24% 8%

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Mol	Chain	Length	Quality of chain
57	N1	159	58% 32% 10%
57	n1	159	60% 27% 13%
58	N2	100	66% 27% 7%
58	n2	100	59% 27% 12%
59	N3	136	60% 32% 9%
59	n3	136	60% 34% 7%
60	N4	98	71% 26%
61	N5	121	59% 31% 10%
61	n5	121	50% 36% 12%
62	N6	126	54% 36% 10%
62	n6	126	47% 34% 17%
63	N7	135	47% 42% 10%
63	n7	135	40% 39% 19%
64	N8	148	50% 39% 9%
64	n8	148	51% 42% 6%
65	N9	58	59% 29% 10%
65	n9	58	53% 28% 14% 5%
66	O0	100	57% 35% 5%
66	o0	100	54% 35% 10%
67	O1	109	67% 26% 6%
67	o1	109	59% 33% 8%
68	O2	127	62% 33% 5%
68	o2	127	57% 35% 7%
69	O3	106	55% 41% 5%
69	o3	106	58% 35% 6%

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Mol	Chain	Length	Quality of chain
70	O4	112	51% 39% 8%
70	o4	112	62% 35%
71	O5	119	47% 39% 13%
71	o5	119	48% 40% 10%
72	O6	99	56% 37% 6%
72	o6	99	49% 35% 12%
73	O7	87	60% 34% 6%
73	o7	87	56% 33% 10%
74	O8	77	47% 43% 10%
74	o8	77	66% 29% 5%
75	O9	50	56% 34% 10%
75	o9	50	58% 36% 6%
76	Q0	52	60% 29% 10%
76	q0	52	60% 27% 12%
77	Q1	25	52% 44%
77	q1	25	20% 64% 16%
78	Q2	105	49% 41% 10%
78	q2	105	52% 35% 11%
79	Q3	91	57% 33% 10%
79	q3	91	67% 26% 7%
80	c0	96	55% 33% 11%
81	c2	124	53% 32% 13%
82	c5	142	48% 35% 11% 5%
83	sR	318	63% 33% 5%
84	sM	104	63% 27% 8%

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Mol	Chain	Length	Quality of chain
85	l8	231	57% 34% 8%
86	m2	150	89% 11%
87	n4	135	61% 35%
88	p0	219	38% 22% 5% 35%
89	p1	47	91% 9%
89	p2	47	94%
90	A	3	33% 67%
90	a	3	33% 67%

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
92	OHX	1	4124	-	-	X	-
92	OHX	1	4192	-	-	X	-
92	OHX	1	4290	-	-	X	-
92	OHX	1	4376	-	-	X	-
92	OHX	1	4385	-	-	X	-
92	OHX	1	4415	-	-	X	-
92	OHX	1	4436	-	-	X	-
92	OHX	1	4446	-	-	X	-
92	OHX	1	4447	-	-	X	-
92	OHX	1	4487	-	-	X	-
92	OHX	1	4500	-	-	X	-
92	OHX	1	4501	-	-	X	-
92	OHX	2	2074	-	-	X	-
92	OHX	2	2077	-	-	X	-
92	OHX	2	2203	-	-	X	-
92	OHX	2	2243	-	-	X	-
92	OHX	5	4260	-	-	X	-
92	OHX	5	4409	-	-	X	-
92	OHX	6	2162	-	-	X	-
92	OHX	6	2339	-	-	X	-
92	OHX	C5	202	-	-	X	-
92	OHX	M0	307	-	-	X	-
92	OHX	M0	308	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	O7	107	-	-	X	-
92	OHX	Q2	505	-	-	X	-
92	OHX	c5	202	-	-	X	-

2 Entry composition

There are 93 unique types of molecules in this entry. The entry contains 414290 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 18S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	2	1781	Total	C	N	O	P	0	1	0
			37970	16975	6720	12493	1782			
1	6	1795	Total	C	N	O	P	0	1	0
			38260	17105	6763	12596	1796			

- Molecule 2 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	S0	206	Total	C	N	O	S	0	0	0
			1577	1014	278	283	2			
2	s0	206	Total	C	N	O	S	0	0	0
			1583	1017	281	283	2			

- Molecule 3 is a protein called 40S ribosomal protein S1-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	S1	214	Total	C	N	O	S	0	0	0
			1709	1084	310	311	4			
3	s1	216	Total	C	N	O	S	0	0	0
			1722	1091	312	315	4			

- Molecule 4 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	S2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			
4	s2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			

- Molecule 5 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	S3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			
5	s3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

- Molecule 6 is a protein called 40S ribosomal protein S4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	S4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			
6	s4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			

- Molecule 7 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	S5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			
7	s5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

- Molecule 8 is a protein called 40S ribosomal protein S6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	S6	226	Total	C	N	O	S	0	0	0
			1799	1129	346	321	3			
8	s6	218	Total	C	N	O	S	0	0	0
			1755	1102	337	313	3			

- Molecule 9 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	S7	184	Total	C	N	O	0	0	0
			1481	951	265	265			
9	s7	186	Total	C	N	O	0	0	0
			1491	957	267	267			

- Molecule 10 is a protein called 40S ribosomal protein S8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	S8	188	Total	C	N	O	S	0	0	0
			1489	925	298	264	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	s8	188	Total	C	N	O	S	0	0	0
			1489	925	298	264	2			

- Molecule 11 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	S9	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			
11	s9	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			

- Molecule 12 is a protein called 40S ribosomal protein S10-A,40S ribosomal protein S10-A,40S Ribosomal Protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	C0	96	Total	C	N	O	S	0	0	0
			773	500	126	145	2			

- Molecule 13 is a protein called 40S ribosomal protein S11-A,40S ribosomal protein S11-A,40S Ribosomal Protein S11-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	C1	155	Total	C	N	O	S	0	0	0
			1214	775	230	206	3			
13	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

- Molecule 14 is a protein called 40S Ribosomal Protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	C2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			

- Molecule 15 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	C3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			
15	c3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			

- Molecule 16 is a protein called 40S Ribosomal Protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	C4	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			
16	c4	128	Total	C	N	O	S	0	0	0
			949	582	188	176	3			

- Molecule 17 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	C5	124	Total	C	N	O	S	0	0	0
			977	622	182	166	7			

- Molecule 18 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	C6	141	Total	C	N	O	0	0	0
			1105	708	203	194			
18	c6	142	Total	C	N	O	0	0	0
			1111	711	204	196			

- Molecule 19 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	C7	120	Total	C	N	O	S	0	0	0
			926	577	177	170	2			
19	c7	117	Total	C	N	O	S	0	0	0
			906	563	174	167	2			

- Molecule 20 is a protein called 40S ribosomal protein S18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	C8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			
20	c8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			

- Molecule 21 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	C9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			
21	c9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			

- Molecule 22 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	D0	107	Total	C	N	O	S	0	0	0
			855	539	156	159	1			
22	d0	110	Total	C	N	O	S	0	0	0
			882	554	161	166	1			

- Molecule 23 is a protein called 40S ribosomal protein S21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	D1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			
23	d1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			

- Molecule 24 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	D2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			
24	d2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			

- Molecule 25 is a protein called 40S ribosomal protein S23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	D3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			
25	d3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			

- Molecule 26 is a protein called 40S ribosomal protein S24-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	D4	134	Total	C	N	O	0	0	0
			1073	676	208	189			
26	d4	134	Total	C	N	O	0	0	0
			1073	676	208	189			

- Molecule 27 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	D5	70	Total 563	C 360	N 104	O 99	0	0	0
27	d5	69	Total 558	C 357	N 103	O 98	0	0	0

- Molecule 28 is a protein called 40S ribosomal protein S26-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	D6	97	Total 769	C 475	N 160	O 129	S 5	0	0	0
28	d6	97	Total 769	C 475	N 160	O 129	S 5	0	0	0

- Molecule 29 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	D7	81	Total 610	C 382	N 110	O 113	S 5	0	0	0
29	d7	81	Total 610	C 382	N 110	O 113	S 5	0	0	0

- Molecule 30 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	D8	63	Total 497	C 306	N 99	O 91	S 1	0	0	0
30	d8	63	Total 497	C 306	N 99	O 91	S 1	0	0	0

- Molecule 31 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D9	53	Total 442	C 274	N 92	O 72	S 4	0	0	0
31	d9	53	Total 442	C 274	N 92	O 72	S 4	0	0	0

- Molecule 32 is a protein called 40S ribosomal protein S30-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	E0	60	Total 475	C 299	N 98	O 77	S 1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	e0	62	Total	C	N	O	S	0	0	0
			491	309	101	80	1			

- Molecule 33 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	E1	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			
33	e1	76	Total	C	N	O	S	0	0	0
			608	388	117	99	4			

- Molecule 34 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2437	1541	418	470	8			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SR	161	ALA	LYS	conflict	UNP P38011

- Molecule 35 is a protein called Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	SM	159	Total	C	N	O	0	0	0
			1104	654	221	229			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SM	134	LEU	ASP	conflict	UNP P39015

- Molecule 36 is a RNA chain called 25S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			
36	5	3150	Total	C	N	O	P	0	0	0
			67376	30095	12145	21987	3149			

- Molecule 37 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
37	7	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 38 is a RNA chain called 5.8S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
38	8	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 39 is a protein called 60S ribosomal protein L2-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	L2	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			
39	l2	252	Total	C	N	O	S	0	0	0
			1912	1190	388	333	1			

- Molecule 40 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	L3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			
40	l3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			

- Molecule 41 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	L4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			
41	l4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			

- Molecule 42 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	L5	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
42	l5	294	Total	C	N	O	S	0	0	0
			2359	1489	412	456	2			

- Molecule 43 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	L6	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
43	l6	157	Total	C	N	O	S	0	0	0
			1248	806	224	217	1			

- Molecule 44 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	L7	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
44	l7	223	Total	C	N	O	S	0	0	0
			1791	1155	325	310	1			

- Molecule 45 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	L8	233	Total	C	N	O	S	0	0	0
			1804	1151	323	327	3			

- Molecule 46 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	L9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
46	l9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

- Molecule 47 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	M0	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			
47	m0	213	Total	C	N	O	S	0	0	0
			1722	1094	325	297	6			

- Molecule 48 is a protein called 60S ribosomal protein L11-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	M1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			
48	m1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			

- Molecule 49 is a protein called 60S ribosomal protein L13-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	M3	193	Total	C	N	O	0	0	0
			1543	962	315	266			
49	m3	194	Total	C	N	O	0	0	0
			1548	965	316	267			

- Molecule 50 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	M4	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			
50	m4	137	Total	C	N	O	S	0	0	0
			1059	678	200	179	2			

- Molecule 51 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	M5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			
51	m5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			

- Molecule 52 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			
52	m6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

- Molecule 53 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	M7	183	Total 1420	C 882	N 281	O 257	0	0	0
53	m7	155	Total 1227	C 764	N 238	O 225	0	0	0

- Molecule 54 is a protein called 60S ribosomal protein L18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	M8	185	Total 1441	C 908	N 290	O 241	S 2	0	0	0
54	m8	185	Total 1441	C 908	N 290	O 241	S 2	0	0	0

- Molecule 55 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
55	M9	188	Total 1521	C 935	N 326	O 260	0	0	0
55	m9	188	Total 1521	C 935	N 326	O 260	0	0	0

- Molecule 56 is a protein called 60S ribosomal protein L20-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	N0	172	Total 1445	C 930	N 267	O 244	S 4	0	0	0
56	n0	172	Total 1445	C 930	N 267	O 244	S 4	0	0	0

- Molecule 57 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	N1	159	Total 1276	C 805	N 246	O 221	S 4	0	0	0
57	n1	159	Total 1276	C 805	N 246	O 221	S 4	0	0	0

- Molecule 58 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
58	N2	100	Total 796	C 516	N 131	O 149	0	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
58	n2	98	Total 778	C 505	N 127	O 146	0	0	0

- Molecule 59 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	N3	136	Total 1003	C 628	N 189	O 179	S 7	0	0	0
59	n3	136	Total 1003	C 628	N 189	O 179	S 7	0	0	0

- Molecule 60 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	N4	98	Total 699	C 443	N 137	O 118	S 1	0	0	0

- Molecule 61 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	N5	121	Total 964	C 620	N 169	O 173	S 2	0	0	0
61	n5	120	Total 959	C 617	N 168	O 172	S 2	0	0	0

- Molecule 62 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
62	N6	126	Total 993	C 625	N 192	O 176	0	0	0
62	n6	126	Total 993	C 625	N 192	O 176	0	0	0

- Molecule 63 is a protein called 60S ribosomal protein L27-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
63	N7	135	Total 1092	C 710	N 202	O 180	0	0	0
63	n7	135	Total 1092	C 710	N 202	O 180	0	0	0

- Molecule 64 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
64	N8	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			
64	n8	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			

- Molecule 65 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
65	N9	58	Total	C	N	O	0	0	0
			462	289	100	73			
65	n9	58	Total	C	N	O	0	0	0
			462	289	100	73			

- Molecule 66 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	O0	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			
66	o0	100	Total	C	N	O	S	0	0	0
			767	492	128	146	1			

- Molecule 67 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
67	O1	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			
67	o1	109	Total	C	N	O	S	0	0	0
			883	559	167	156	1			

- Molecule 68 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	O2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			
68	o2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			

- Molecule 69 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	O3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	o3	106	Total 850	C 540	N 165	O 144	S 1	0	0	0

- Molecule 70 is a protein called 60S ribosomal protein L34-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	O4	112	Total 880	C 545	N 179	O 152	S 4	0	0	0
70	o4	112	Total 880	C 545	N 179	O 152	S 4	0	0	0

- Molecule 71 is a protein called 60S ribosomal protein L35-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	O5	119	Total 969	C 615	N 186	O 167	S 1	0	0	0
71	o5	119	Total 965	C 612	N 185	O 167	S 1	0	0	0

- Molecule 72 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	O6	99	Total 771	C 481	N 156	O 132	S 2	0	0	0
72	o6	99	Total 770	C 481	N 156	O 131	S 2	0	0	0

- Molecule 73 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	O7	87	Total 681	C 414	N 148	O 114	S 5	0	0	0
73	o7	87	Total 681	C 414	N 148	O 114	S 5	0	0	0

- Molecule 74 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
74	O8	77	Total 612	C 391	N 115	O 106	0	0	0
74	o8	77	Total 608	C 388	N 114	O 106	0	0	0

- Molecule 75 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	O9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			
75	o9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			

- Molecule 76 is a protein called Ubiquitin-60S ribosomal protein L40.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	Q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			
76	q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			

- Molecule 77 is a protein called 60S ribosomal protein L41-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	Q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			
77	q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

- Molecule 78 is a protein called 60S ribosomal protein L42-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	Q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			
78	q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			

- Molecule 79 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	Q3	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			
79	q3	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			

- Molecule 80 is a protein called 40S ribosomal protein S10-A,40S ribosomal protein S10-A,40S Ribosomal Protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	c0	96	Total	C	N	O	S	0	0	0
			762	491	125	144	2			

- Molecule 81 is a protein called 40S Ribosomal Protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
81	c2	124	Total	C	N	O	S	0	0	0
			892	562	156	172	2			

- Molecule 82 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
82	c5	135	Total	C	N	O	S	0	0	0
			1039	658	196	178	7			

- Molecule 83 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
83	sR	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 84 is a protein called Suppressor protein STM1,Suppressor protein STM1,Ribosome-bound protein Stm1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
84	sM	104	Total	C	N	O	0	0	0
			681	404	140	137			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
sM	59	ALA	GLY	conflict	UNP P39015

- Molecule 85 is a protein called 60S ribosomal protein L8-A,60S ribosomal protein L8-A,60S Ribosomal Protein L8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
85	l8	231	Total	C	N	O	S	0	0	0
			1763	1130	316	314	3			

- Molecule 86 is a protein called 60S Ribosomal Protein L12.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
86	m2	150	Total	C	N	O	0	0	0
			750	450	150	150			

- Molecule 87 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
87	n4	135	Total	C	N	O	S	0	0	0
			1038	651	206	180	1			

- Molecule 88 is a protein called 60S acidic ribosomal protein P0,60S acidic ribosomal protein P0,60S Ribosomal Protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
88	p0	143	Total	C	N	O	S	0	0	0
			1077	687	192	195	3			

- Molecule 89 is a protein called 60S Ribosomal Protein P1/2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
89	p1	47	Total	C	N	O	0	0	0
			235	141	47	47			
89	p2	46	Total	C	N	O	0	0	0
			230	138	46	46			

- Molecule 90 is a RNA chain called aminoacyl-tRNA fragment ACCPmn.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
90	A	3	Total	C	N	O	P	0	0	0
			77	40	13	21	3			
90	a	3	Total	C	N	O	P	0	0	0
			77	40	13	21	3			

- Molecule 91 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
91	2	169	Total	Mg	0	0
			169	169		
91	S1	1	Total	Mg	0	0
			1	1		
91	S2	2	Total	Mg	0	0
			2	2		
91	S4	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
91	S6	1	Total Mg 1 1	0	0
91	S8	2	Total Mg 2 2	0	0
91	C1	2	Total Mg 2 2	0	0
91	C5	1	Total Mg 1 1	0	0
91	C8	1	Total Mg 1 1	0	0
91	D0	1	Total Mg 1 1	0	0
91	D3	1	Total Mg 1 1	0	0
91	D6	1	Total Mg 1 1	0	0
91	D9	2	Total Mg 2 2	0	0
91	E1	1	Total Mg 1 1	0	0
91	1	700	Total Mg 700 700	1	0
91	3	18	Total Mg 18 18	0	0
91	4	32	Total Mg 32 32	0	0
91	L2	4	Total Mg 4 4	0	0
91	L3	6	Total Mg 6 6	0	0
91	L4	7	Total Mg 7 7	0	0
91	L6	1	Total Mg 1 1	0	0
91	L7	1	Total Mg 1 1	0	0
91	L8	1	Total Mg 1 1	0	0
91	M0	4	Total Mg 4 4	0	0
91	M1	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
91	M3	4	Total Mg 4 4	0	0
91	M4	1	Total Mg 1 1	0	0
91	M5	8	Total Mg 8 8	0	0
91	M6	4	Total Mg 4 4	0	0
91	M7	8	Total Mg 8 8	0	0
91	M8	3	Total Mg 3 3	0	0
91	M9	3	Total Mg 3 3	0	0
91	N0	2	Total Mg 2 2	0	0
91	N1	1	Total Mg 1 1	0	0
91	N3	4	Total Mg 4 4	0	0
91	N6	1	Total Mg 1 1	0	0
91	N8	7	Total Mg 7 7	0	0
91	N9	1	Total Mg 1 1	0	0
91	O1	1	Total Mg 1 1	0	0
91	O2	2	Total Mg 2 2	0	0
91	O3	3	Total Mg 3 3	0	0
91	O4	1	Total Mg 1 1	0	0
91	O7	5	Total Mg 5 5	0	0
91	O9	1	Total Mg 1 1	0	0
91	Q0	2	Total Mg 2 2	0	0
91	Q2	3	Total Mg 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
91	6	242	Total Mg 242 242	0	0
91	s1	1	Total Mg 1 1	0	0
91	s4	1	Total Mg 1 1	0	0
91	s8	4	Total Mg 4 4	0	0
91	c6	3	Total Mg 3 3	0	0
91	c8	3	Total Mg 3 3	0	0
91	c9	1	Total Mg 1 1	0	0
91	d2	1	Total Mg 1 1	0	0
91	d3	1	Total Mg 1 1	0	0
91	d5	1	Total Mg 1 1	0	0
91	d6	1	Total Mg 1 1	0	0
91	d9	2	Total Mg 2 2	0	0
91	sM	1	Total Mg 1 1	0	0
91	5	758	Total Mg 758 758	0	0
91	7	27	Total Mg 27 27	0	0
91	8	21	Total Mg 21 21	0	0
91	l2	5	Total Mg 5 5	0	0
91	l3	11	Total Mg 11 11	0	0
91	l4	3	Total Mg 3 3	0	0
91	l5	7	Total Mg 7 7	0	0
91	l7	4	Total Mg 4 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
91	l8	1	Total Mg 1 1	0	0
91	l9	3	Total Mg 3 3	0	0
91	m0	1	Total Mg 1 1	0	0
91	m1	2	Total Mg 2 2	0	0
91	m3	2	Total Mg 2 2	0	0
91	m4	1	Total Mg 1 1	0	0
91	m5	2	Total Mg 2 2	0	0
91	m6	6	Total Mg 6 6	0	0
91	m7	7	Total Mg 7 7	0	0
91	m8	2	Total Mg 2 2	0	0
91	m9	1	Total Mg 1 1	0	0
91	n0	5	Total Mg 5 5	0	0
91	n1	3	Total Mg 3 3	0	0
91	n3	3	Total Mg 3 3	0	0
91	n6	1	Total Mg 1 1	0	0
91	n8	4	Total Mg 4 4	0	0
91	n9	2	Total Mg 2 2	0	0
91	o2	3	Total Mg 3 3	0	0
91	o3	5	Total Mg 5 5	0	0
91	o4	3	Total Mg 3 3	0	0
91	o6	1	Total Mg 1 1	0	0

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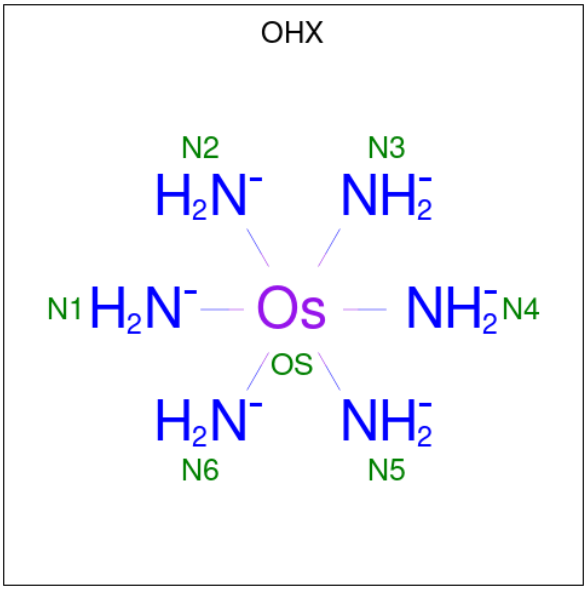
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
91	o7	3	Total Mg 3 3	0	0
91	o9	1	Total Mg 1 1	0	0
91	q0	1	Total Mg 1 1	0	0
91	q1	1	Total Mg 1 1	0	0
91	q2	1	Total Mg 1 1	0	0
91	q3	2	Total Mg 2 2	0	0
91	p0	1	Total Mg 1 1	0	0

- Molecule 92 is osmium (III) hexammine (CCD ID: OHX) (formula: $H_{12}N_6Os$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
92	2	1	Total N Os 7 6 1	0	0
92	2	1	Total N Os 7 6 1	0	0
92	2	1	Total N Os 7 6 1	0	0
92	2	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
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			7	6	1		
92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	2	1	Total 7	N 6	Os 1	0	0
92	S2	1	Total 7	N 6	Os 1	0	0
92	S6	1	Total 7	N 6	Os 1	0	0
92	S8	1	Total 7	N 6	Os 1	0	0
92	C3	1	Total 7	N 6	Os 1	0	0
92	C5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
92	C8	1	Total N Os 7 6 1	0	0
92	C8	1	Total N Os 7 6 1	0	0
92	D9	1	Total N Os 7 6 1	0	0
92	SR	1	Total N Os 7 6 1	0	0
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92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	1	1	Total N Os 7 6 1	0	0
92	3	1	Total N Os 7 6 1	0	0
92	3	1	Total N Os 7 6 1	0	0
92	3	1	Total N Os 7 6 1	0	0
92	3	1	Total N Os 7 6 1	0	0
92	3	1	Total N Os 7 6 1	0	0
92	3	1	Total N Os 7 6 1	0	0
92	3	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	L2	1	Total	N	Os	0	0
			7	6	1		
92	L3	1	Total	N	Os	0	0
			7	6	1		
92	L3	1	Total	N	Os	0	0
			7	6	1		
92	L3	1	Total	N	Os	0	0
			7	6	1		
92	L4	1	Total	N	Os	0	0
			7	6	1		
92	L5	1	Total	N	Os	0	0
			7	6	1		
92	M0	1	Total	N	Os	0	0
			7	6	1		
92	M0	1	Total	N	Os	0	0
			7	6	1		
92	M0	1	Total	N	Os	0	0
			7	6	1		
92	M0	1	Total	N	Os	0	0
			7	6	1		
92	M5	1	Total	N	Os	0	0
			7	6	1		
92	M5	1	Total	N	Os	0	0
			7	6	1		
92	M7	1	Total	N	Os	0	0
			7	6	1		
92	M9	1	Total	N	Os	0	0
			7	6	1		
92	N1	1	Total	N	Os	0	0
			7	6	1		
92	N8	1	Total	N	Os	0	0
			7	6	1		
92	N9	1	Total	N	Os	0	0
			7	6	1		
92	O1	1	Total	N	Os	0	0
			7	6	1		
92	O3	1	Total	N	Os	0	0
			7	6	1		
92	O7	1	Total	N	Os	0	0
			7	6	1		
92	O7	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	O7	1	Total	N	Os	0	0
			7	6	1		
92	Q2	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0
92	6	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	6	1	Total 7	N 6	Os 1	0	0
92	s1	1	Total 7	N 6	Os 1	0	0
92	s4	1	Total 7	N 6	Os 1	0	0
92	s8	1	Total 7	N 6	Os 1	0	0
92	c1	1	Total 7	N 6	Os 1	0	0
92	c3	1	Total 7	N 6	Os 1	0	0
92	c5	1	Total 7	N 6	Os 1	0	0
92	c5	1	Total 7	N 6	Os 1	0	0
92	c8	1	Total 7	N 6	Os 1	0	0
92	d4	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	d9	1	Total 7	N 6	Os 1	0	0
92	sR	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	5	1	Total 7	N 6	Os 1	0	0
92	7	1	Total 7	N 6	Os 1	0	0
92	7	1	Total 7	N 6	Os 1	0	0
92	7	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	l2	1	Total 7	N 6	Os 1	0	0
92	l3	1	Total 7	N 6	Os 1	0	0
92	l3	1	Total 7	N 6	Os 1	0	0
92	l4	1	Total 7	N 6	Os 1	0	0
92	l4	1	Total 7	N 6	Os 1	0	0
92	l5	1	Total 7	N 6	Os 1	0	0
92	l5	1	Total 7	N 6	Os 1	0	0
92	l5	1	Total 7	N 6	Os 1	0	0
92	l9	1	Total 7	N 6	Os 1	0	0
92	m0	1	Total 7	N 6	Os 1	0	0
92	m0	1	Total 7	N 6	Os 1	0	0
92	m0	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
92	m0	1	Total N Os 7 6 1	0	0
92	m1	1	Total N Os 7 6 1	0	0
92	m4	1	Total N Os 7 6 1	0	0
92	m5	1	Total N Os 7 6 1	0	0
92	m5	1	Total N Os 7 6 1	0	0
92	m7	1	Total N Os 7 6 1	0	0
92	m9	1	Total N Os 7 6 1	0	0
92	n1	1	Total N Os 7 6 1	0	0
92	n3	1	Total N Os 7 6 1	0	0
92	n9	1	Total N Os 7 6 1	0	0
92	o2	1	Total N Os 7 6 1	0	0
92	o3	1	Total N Os 7 6 1	0	0
92	o7	1	Total N Os 7 6 1	0	0
92	o9	1	Total N Os 7 6 1	0	0
92	q2	1	Total N Os 7 6 1	0	0
92	A	1	Total N Os 7 6 1	0	0
92	A	1	Total N Os 7 6 1	0	0
92	a	1	Total N Os 7 6 1	0	0

- Molecule 93 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
93	D6	1	Total Zn 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
93	D7	1	Total Zn 1 1	0	0
93	D9	1	Total Zn 1 1	0	0
93	E1	1	Total Zn 1 1	0	0
93	O7	1	Total Zn 1 1	0	0
93	Q0	1	Total Zn 1 1	0	0
93	Q2	1	Total Zn 1 1	0	0
93	Q3	1	Total Zn 1 1	0	0
93	d6	1	Total Zn 1 1	0	0
93	d7	1	Total Zn 1 1	0	0
93	d9	1	Total Zn 1 1	0	0
93	e1	1	Total Zn 1 1	0	0
93	o7	1	Total Zn 1 1	0	0
93	q0	1	Total Zn 1 1	0	0
93	q2	1	Total Zn 1 1	0	0
93	q3	1	Total Zn 1 1	0	0

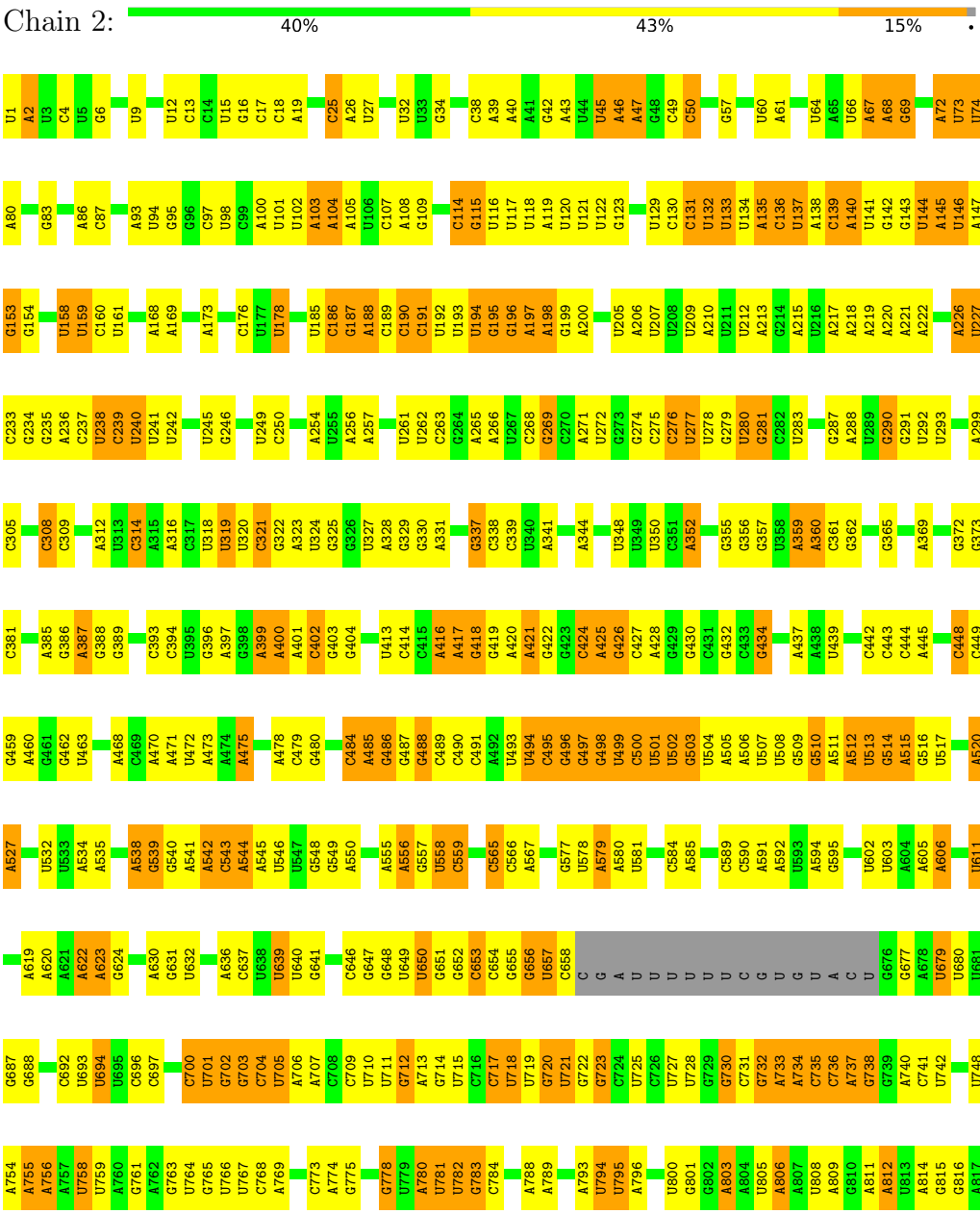
3 Residue-property plots (i)

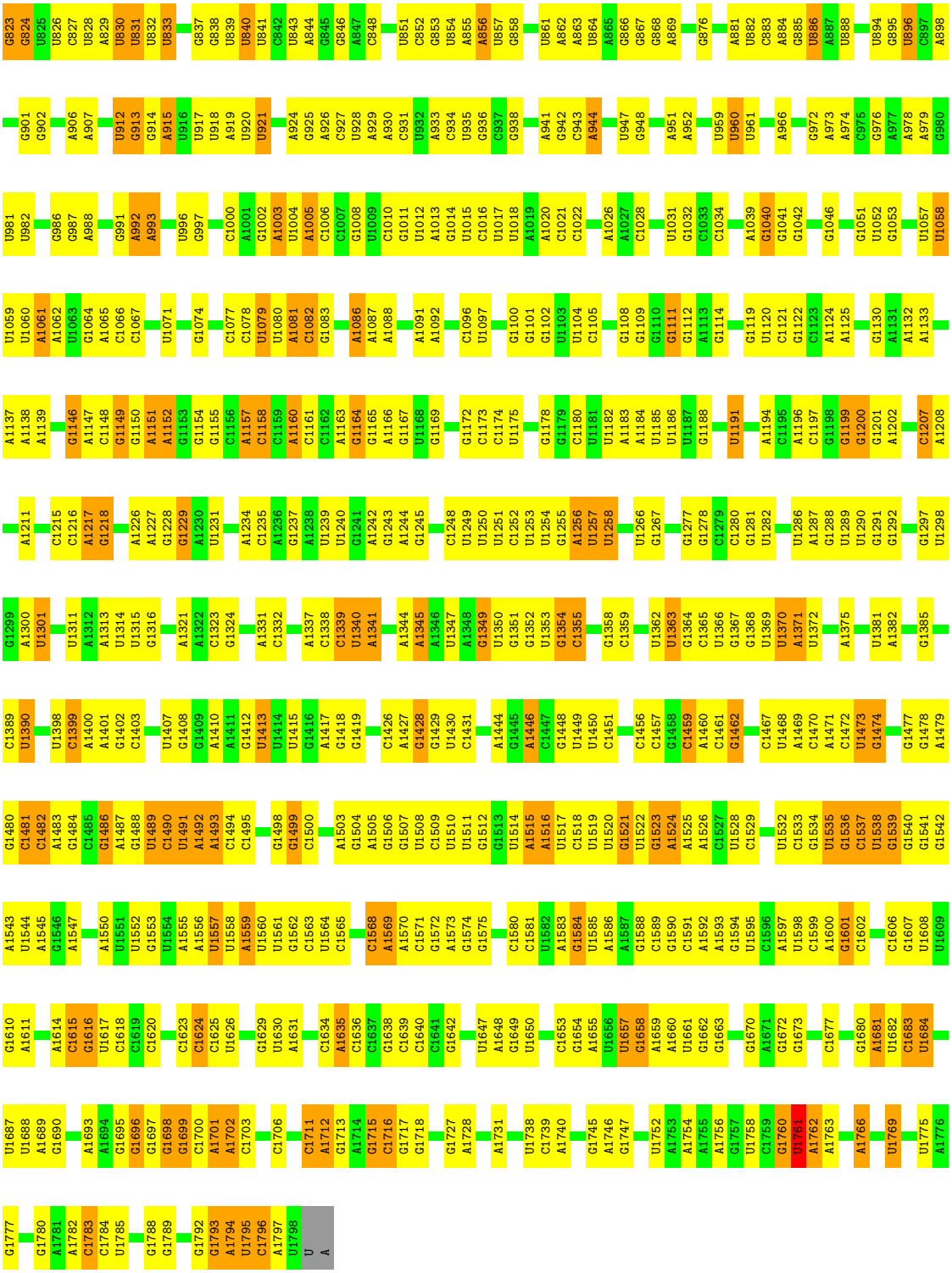
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded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

Note EDS failed to run properly.

- Molecule 1: 18S rRNA

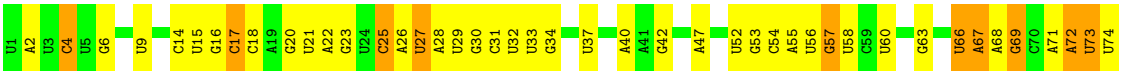
Chain 2:

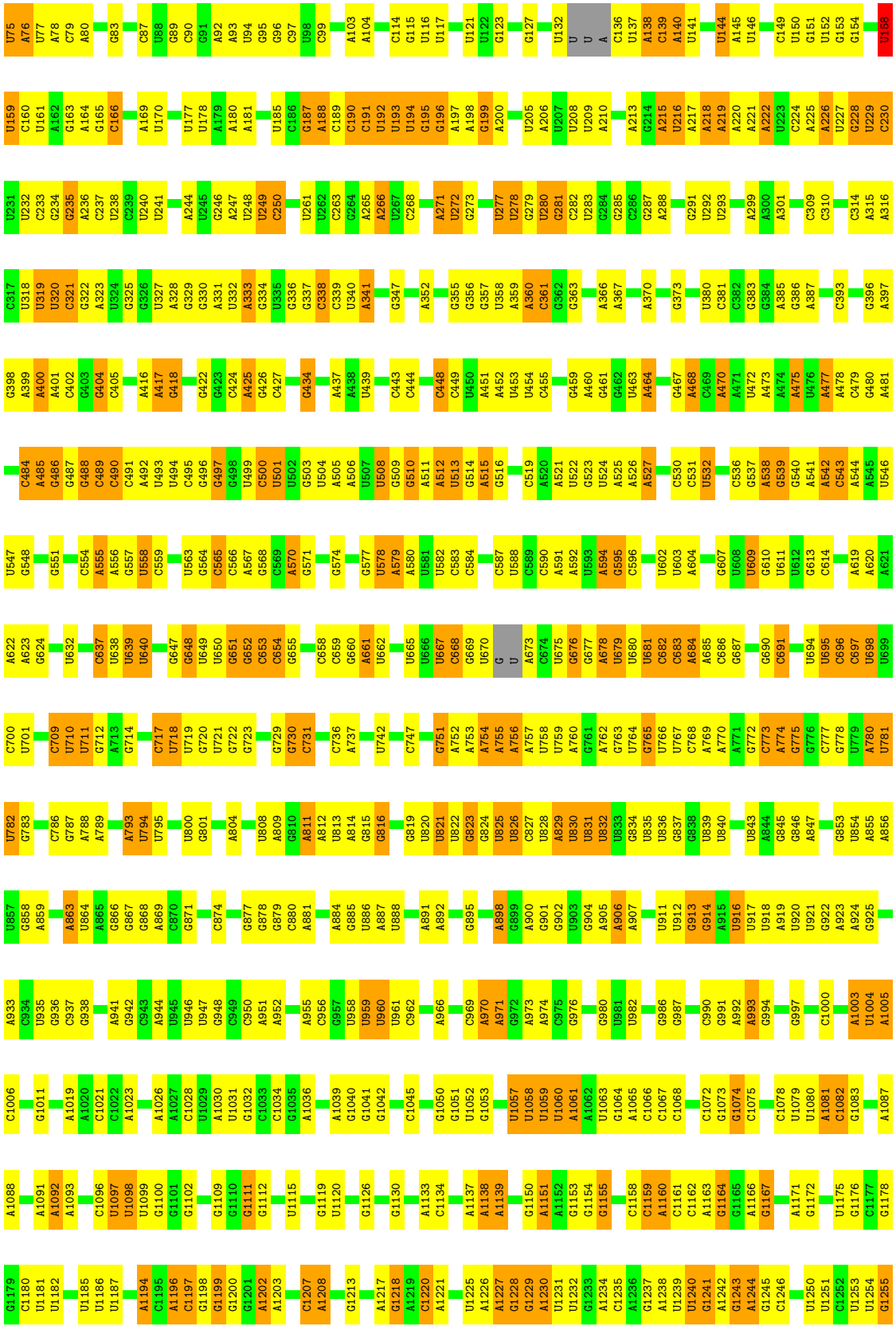


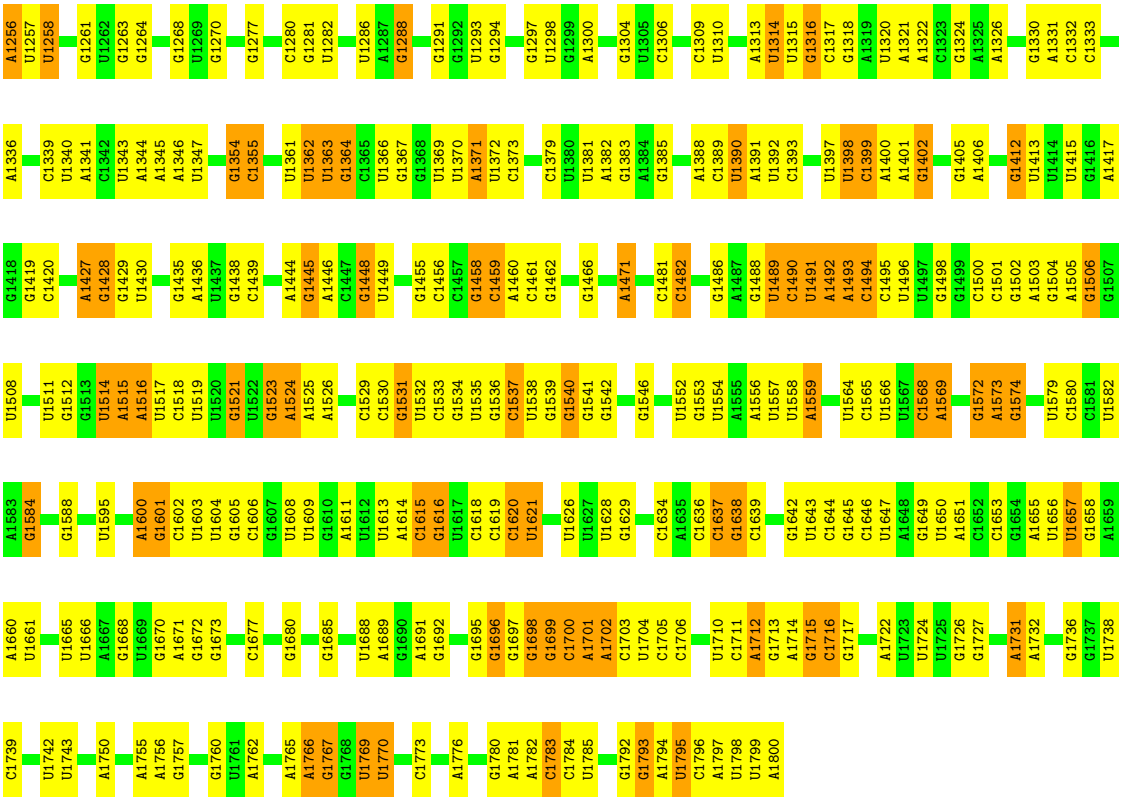


• Molecule 1: 18S rRNA

Chain 6:

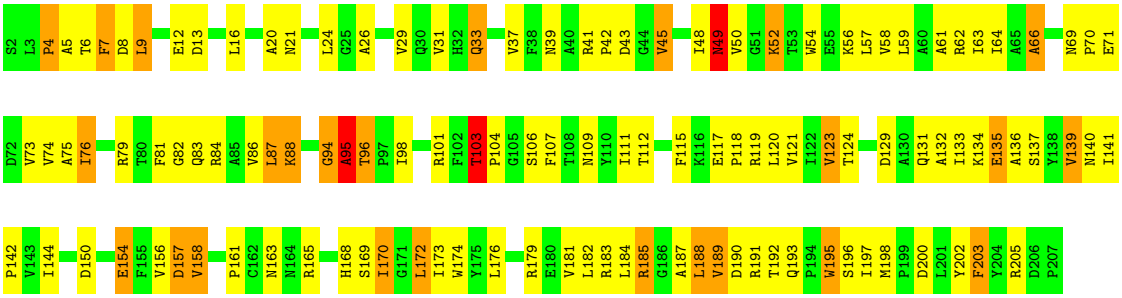






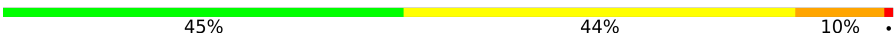
• Molecule 2: 40S ribosomal protein S0-A

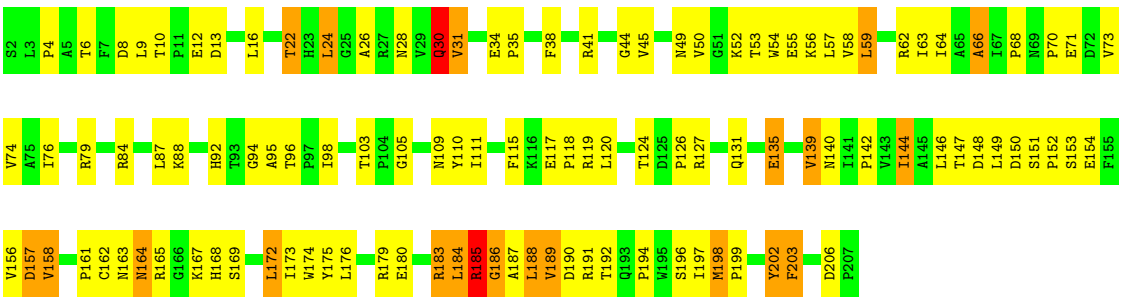
Chain S0:



• Molecule 2: 40S ribosomal protein S0-A

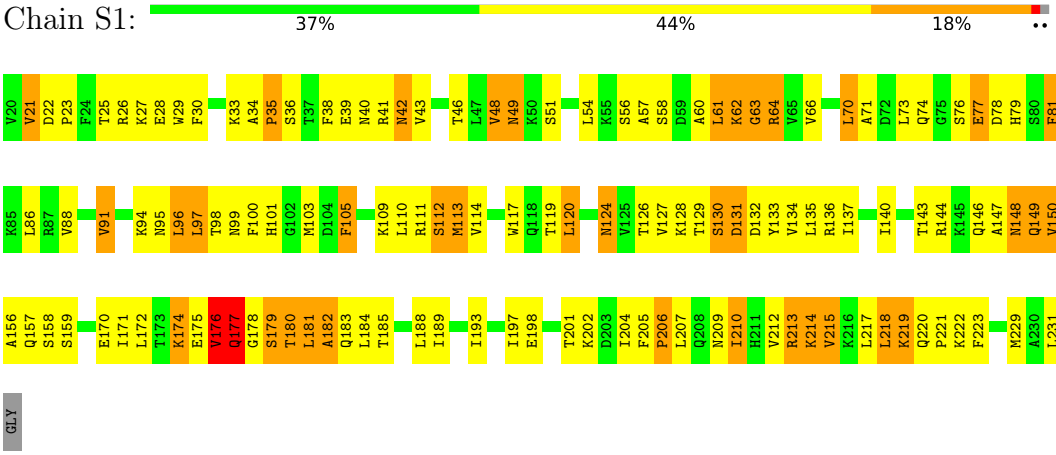
Chain s0:





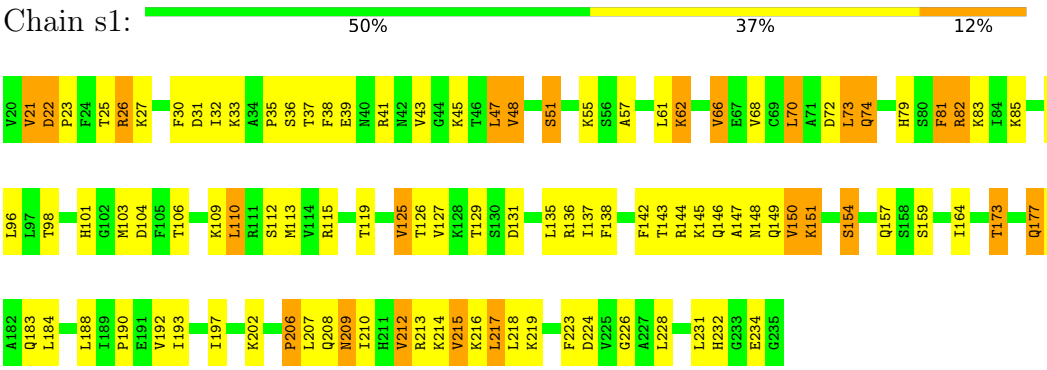
• Molecule 3: 40S ribosomal protein S1-A

Chain S1:



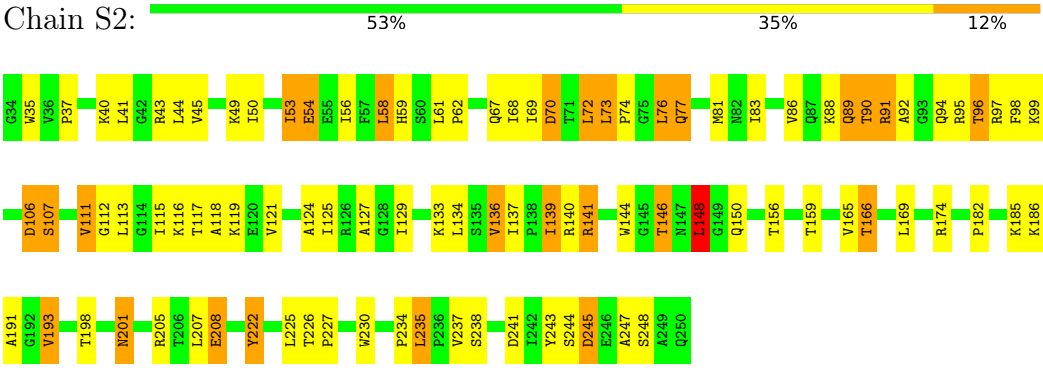
• Molecule 3: 40S ribosomal protein S1-A

Chain s1:



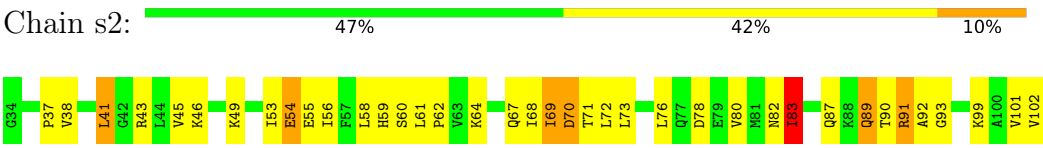
• Molecule 4: 40S ribosomal protein S2

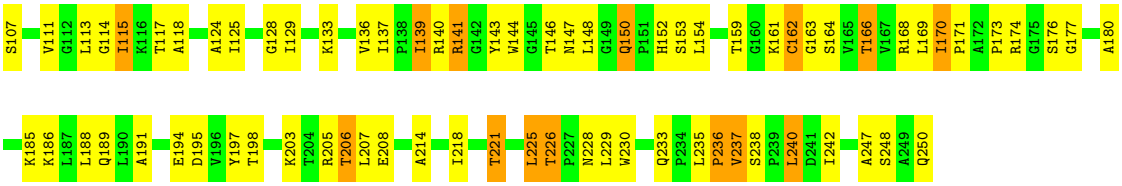
Chain S2:



• Molecule 4: 40S ribosomal protein S2

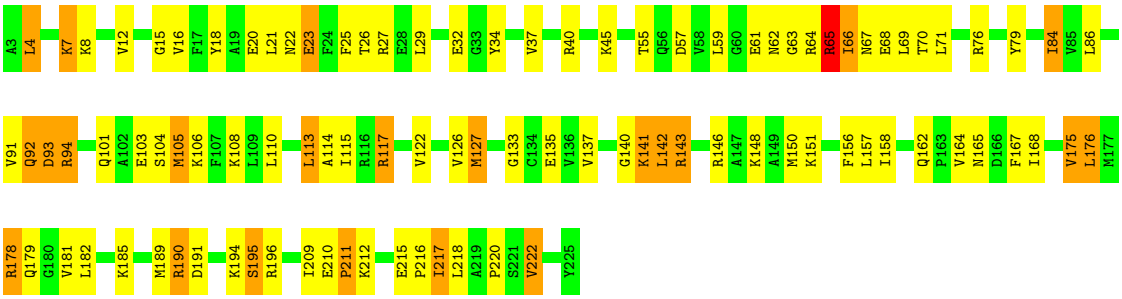
Chain s2:





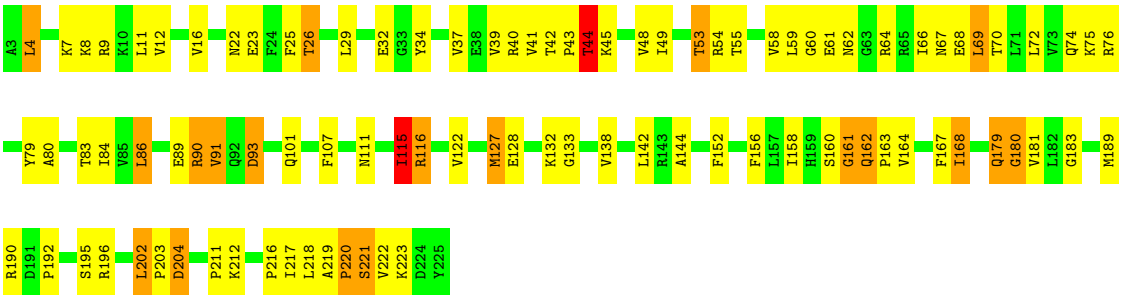
• Molecule 5: 40S ribosomal protein S3

Chain S3:



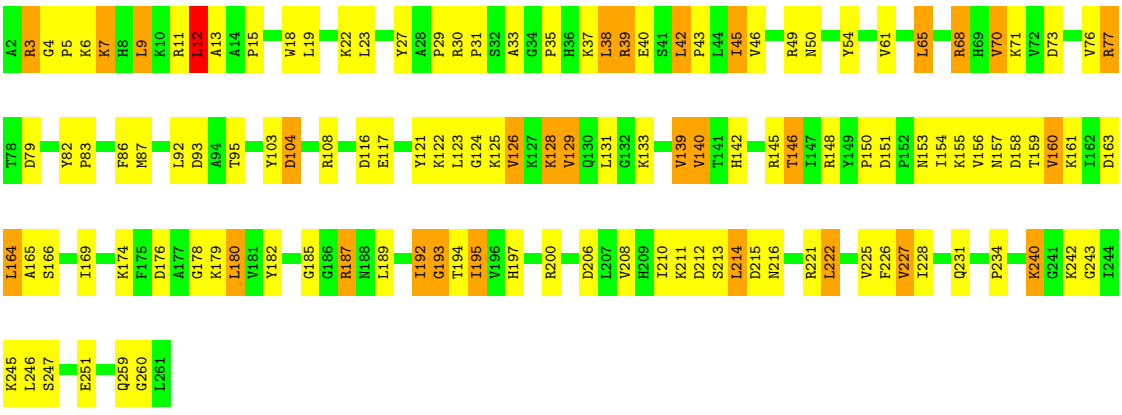
• Molecule 5: 40S ribosomal protein S3

Chain s3:



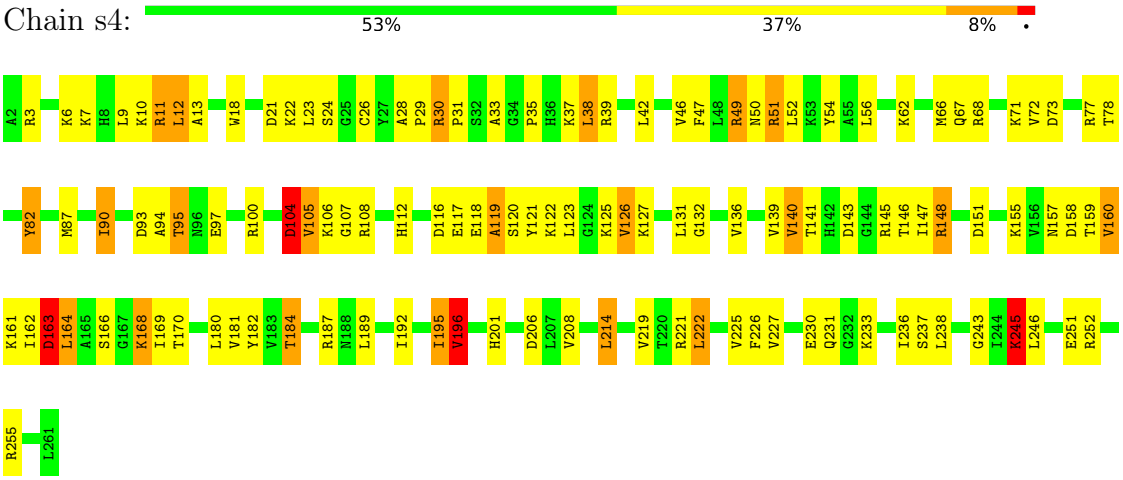
• Molecule 6: 40S ribosomal protein S4-A

Chain S4:



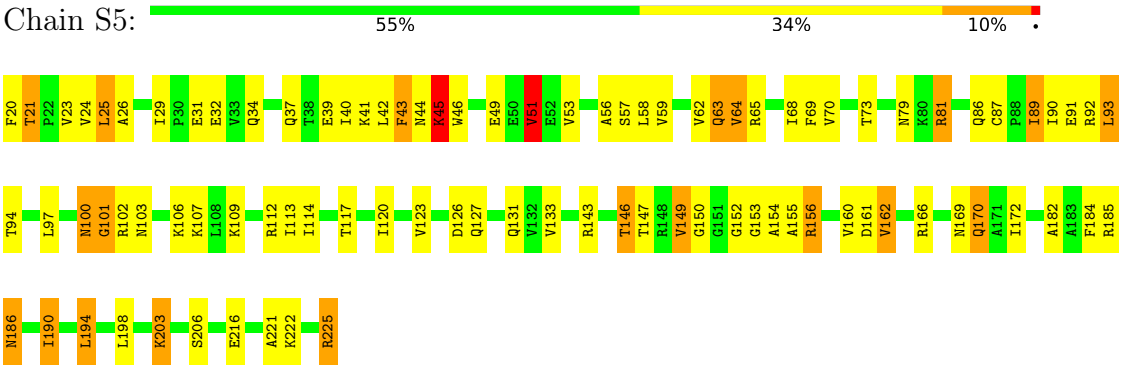
• Molecule 6: 40S ribosomal protein S4-A

Chain s4:



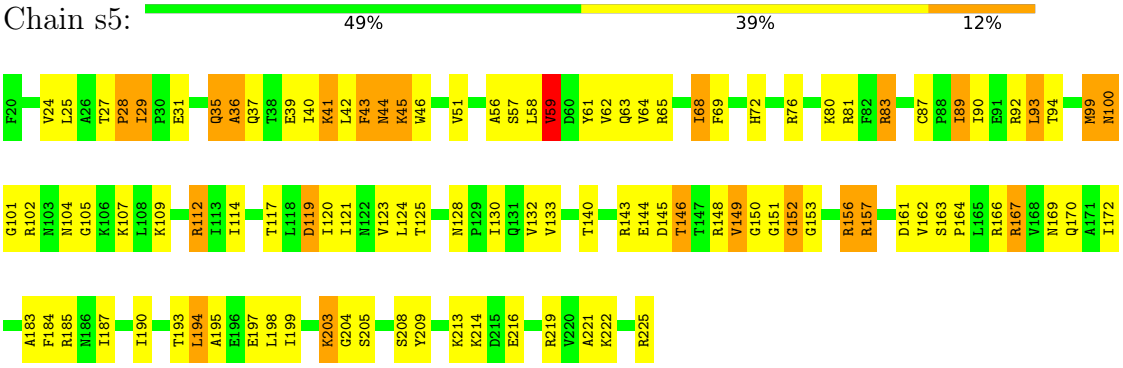
• Molecule 7: 40S ribosomal protein S5

Chain S5:



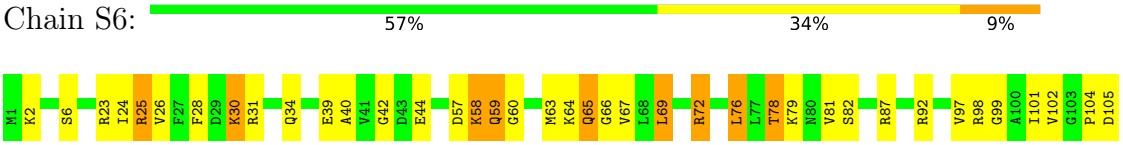
• Molecule 7: 40S ribosomal protein S5

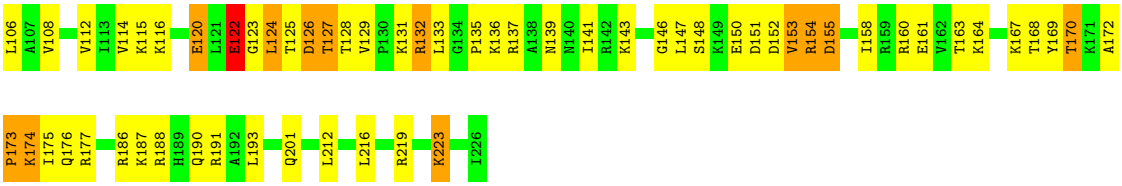
Chain s5:



• Molecule 8: 40S ribosomal protein S6-A

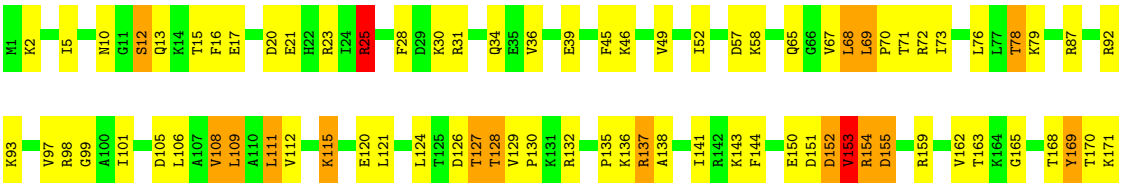
Chain S6:

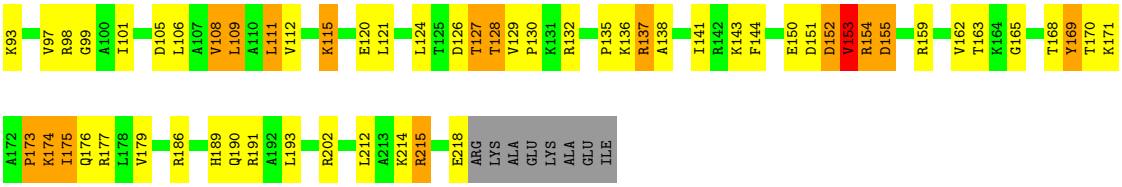




• Molecule 8: 40S ribosomal protein S6-A

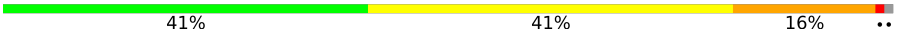
Chain s6:

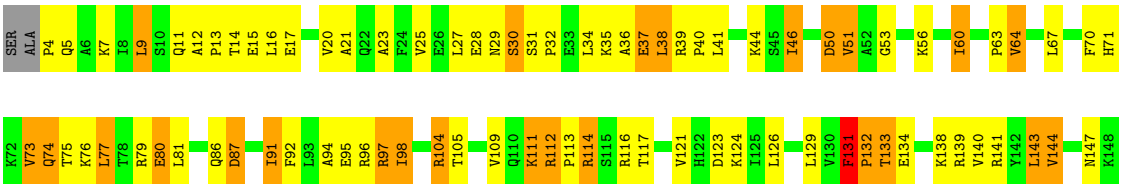


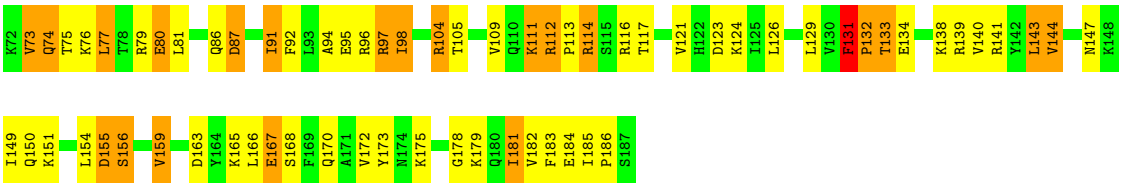


• Molecule 9: 40S ribosomal protein S7-A

Chain S7:

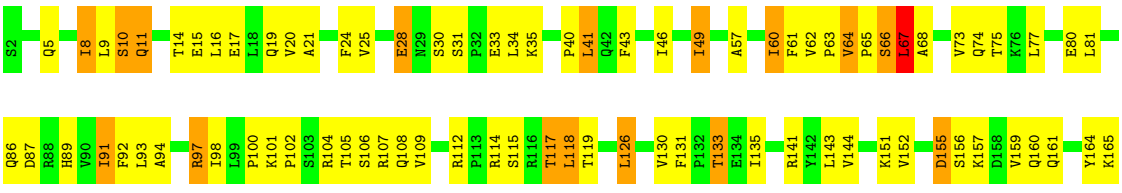


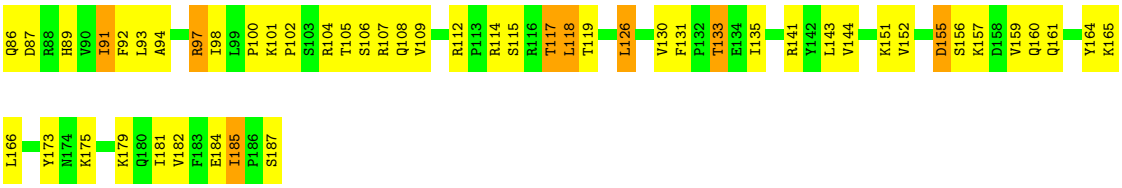




• Molecule 9: 40S ribosomal protein S7-A

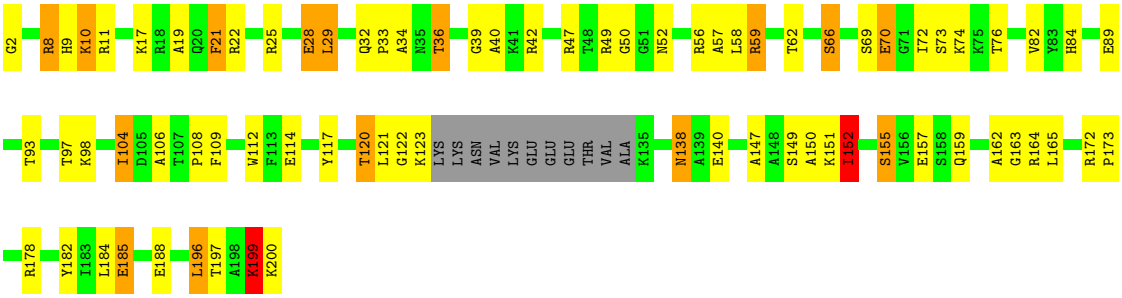
Chain s7:





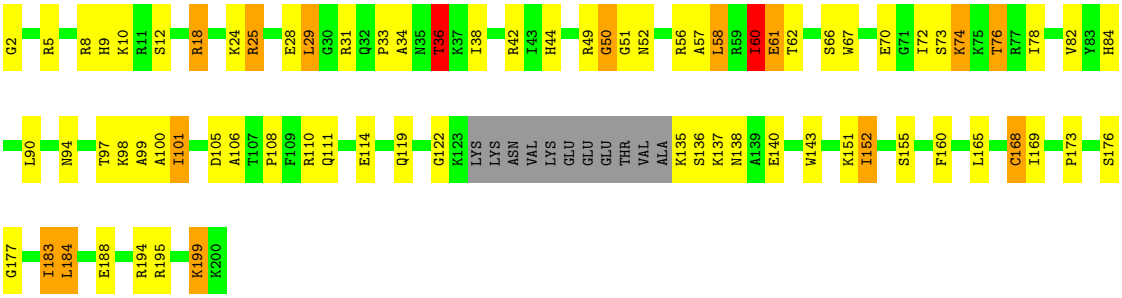
• Molecule 10: 40S ribosomal protein S8-A

Chain S8:



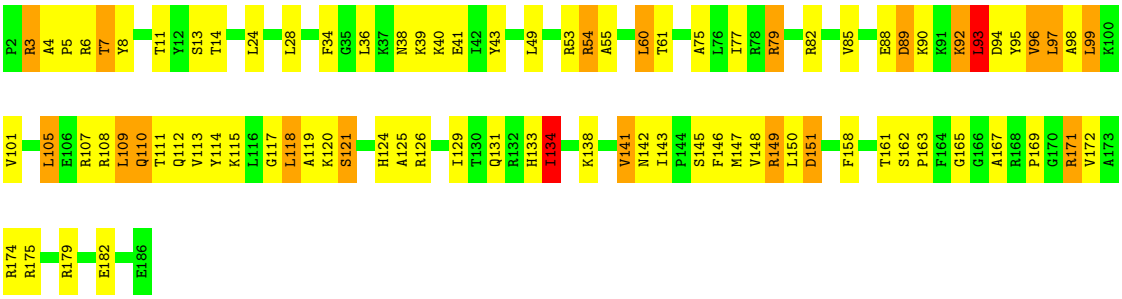
• Molecule 10: 40S ribosomal protein S8-A

Chain s8:



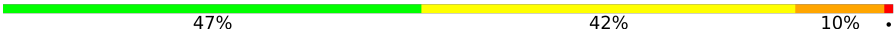
• Molecule 11: 40S ribosomal protein S9-A

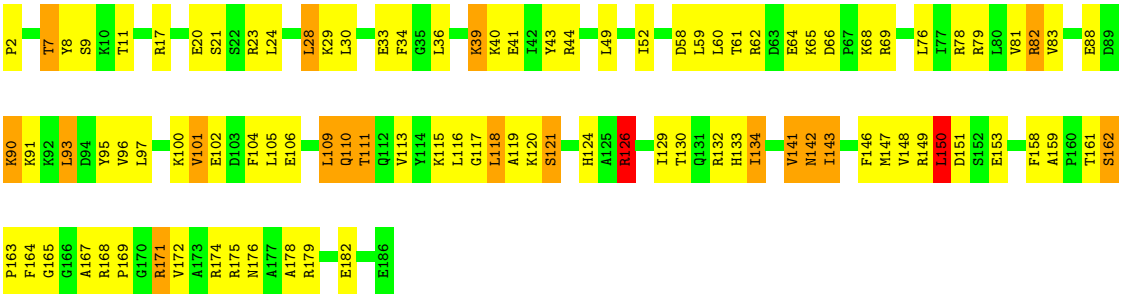
Chain S9:



• Molecule 11: 40S ribosomal protein S9-A

Chain s9:



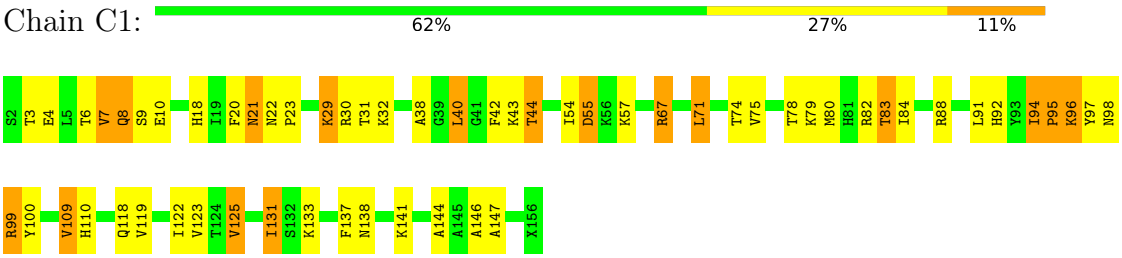


• Molecule 12: 40S ribosomal protein S10-A,40S ribosomal protein S10-A,40S Ribosomal Protein S10-A

Chain C0:

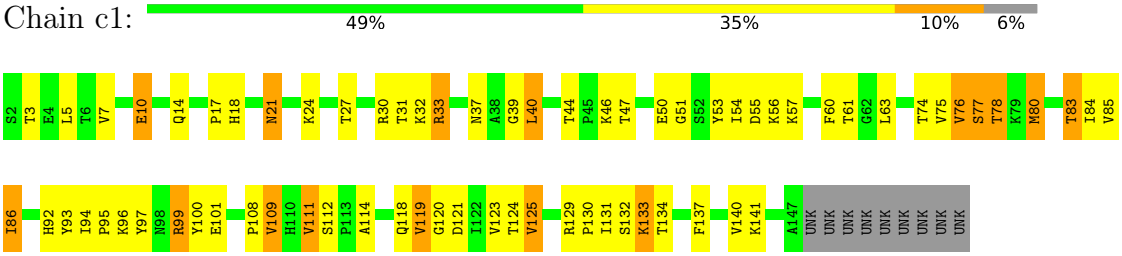
• Molecule 13: 40S ribosomal protein S11-A,40S ribosomal protein S11-A,40S Ribosomal Protein S11-A

Chain C1:



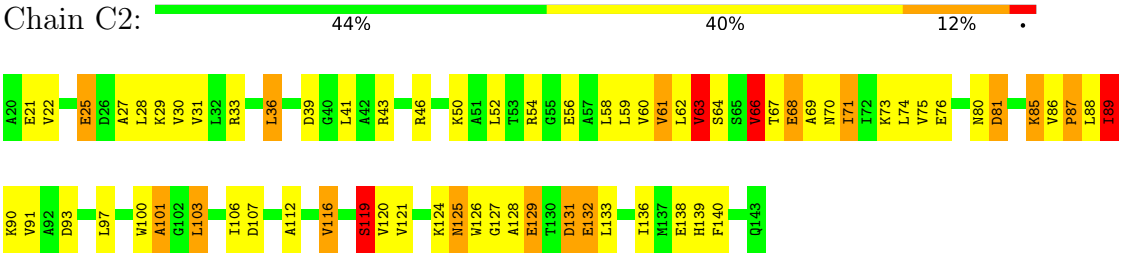
• Molecule 13: 40S ribosomal protein S11-A,40S ribosomal protein S11-A,40S Ribosomal Protein S11-A

Chain c1:



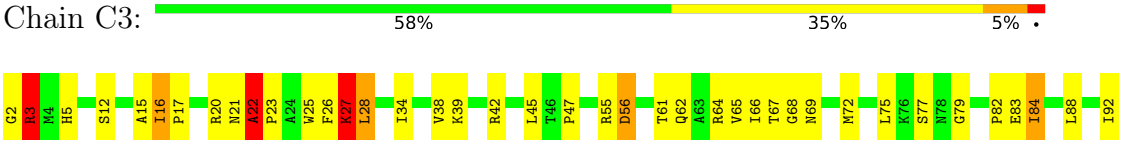
• Molecule 14: 40S Ribosomal Protein S12

Chain C2:



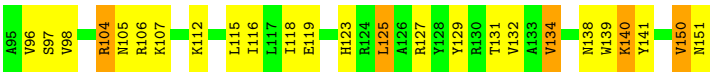
• Molecule 15: 40S ribosomal protein S13

Chain C3:



• Molecule 15: 40S ribosomal protein S13

Chain c3:

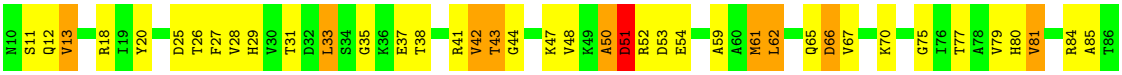


• Molecule 16: 40S Ribosomal Protein S14

Chain C4:

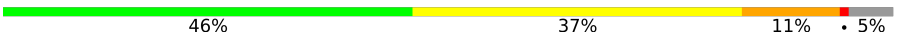
• Molecule 16: 40S Ribosomal Protein S14

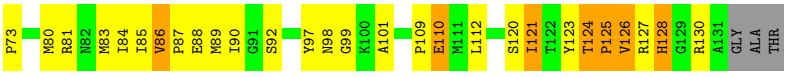
Chain c4:



• Molecule 17: 40S ribosomal protein S15

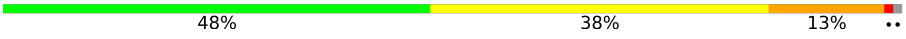
Chain C5:

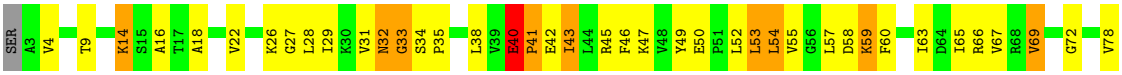




• Molecule 18: 40S ribosomal protein S16-A

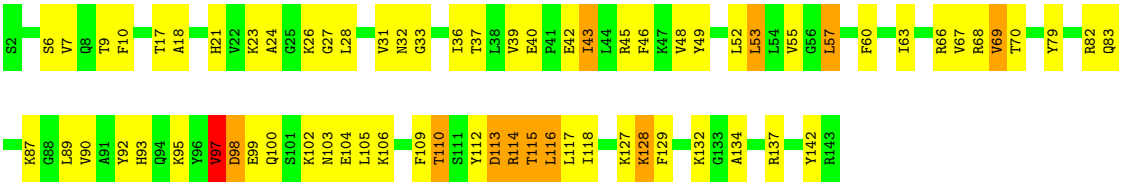
Chain C6:





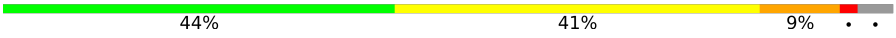
• Molecule 18: 40S ribosomal protein S16-A

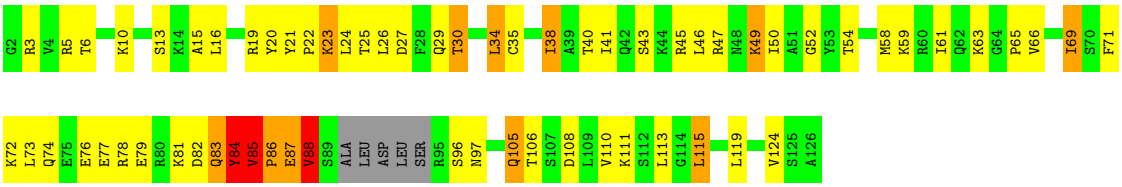
Chain c6:



• Molecule 19: 40S ribosomal protein S17-A

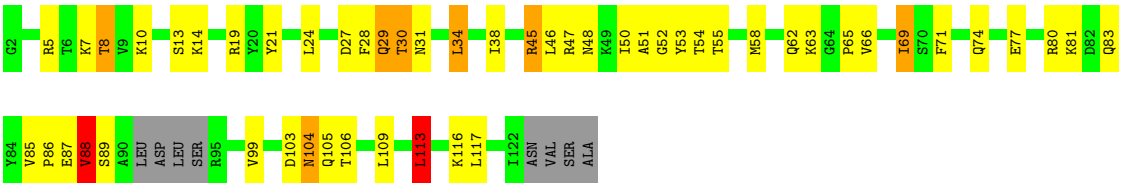
Chain C7:





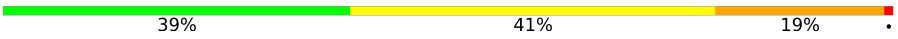
• Molecule 19: 40S ribosomal protein S17-A

Chain c7:



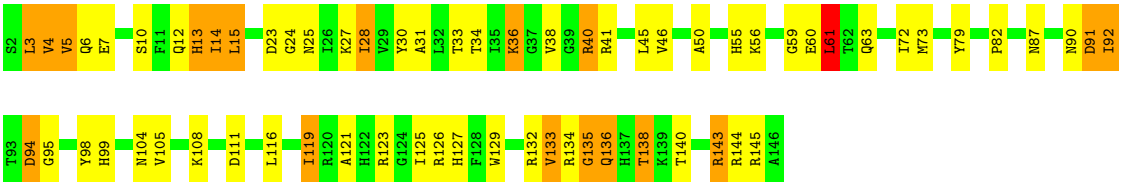
• Molecule 20: 40S ribosomal protein S18-A

Chain C8:



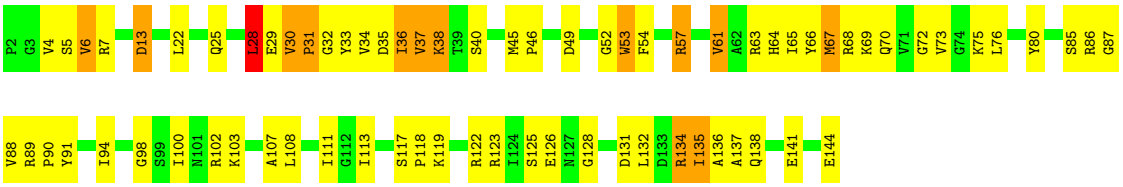
• Molecule 20: 40S ribosomal protein S18-A

Chain c8:



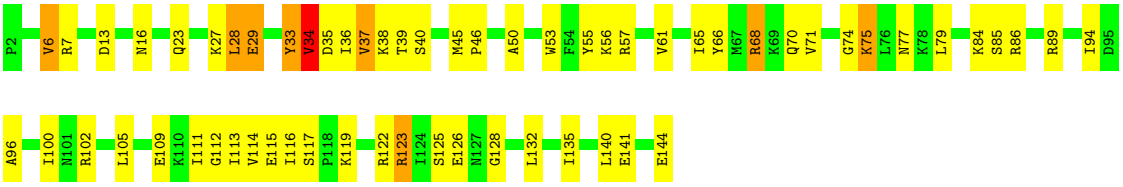
• Molecule 21: 40S ribosomal protein S19-A

Chain C9:



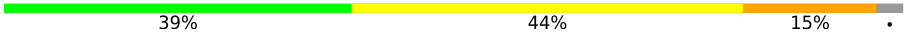
• Molecule 21: 40S ribosomal protein S19-A

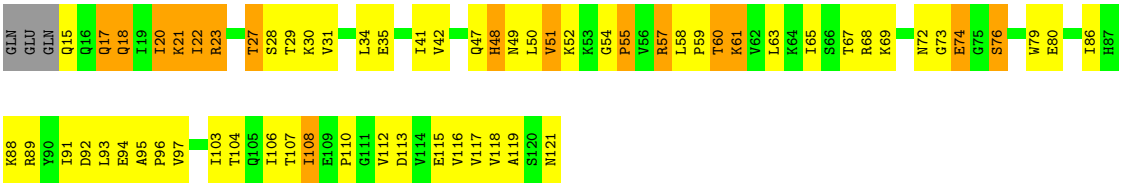
Chain c9:



• Molecule 22: 40S ribosomal protein S20

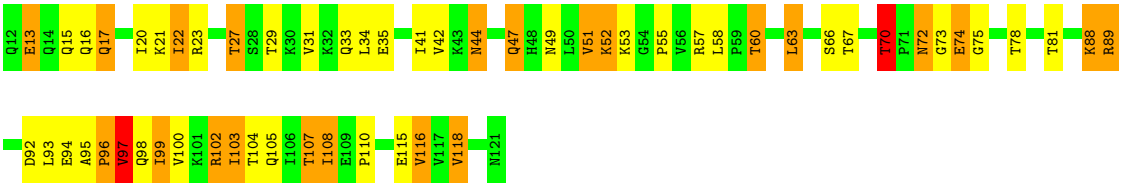
Chain D0:





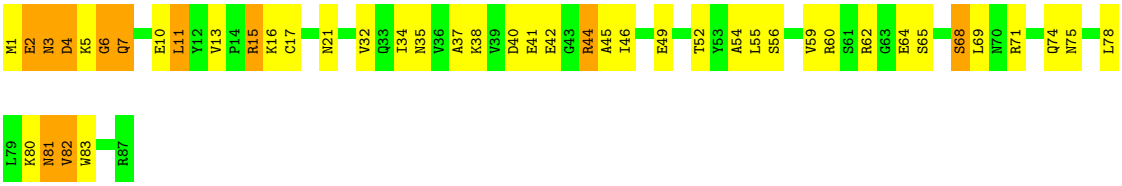
• Molecule 22: 40S ribosomal protein S20

Chain d0:



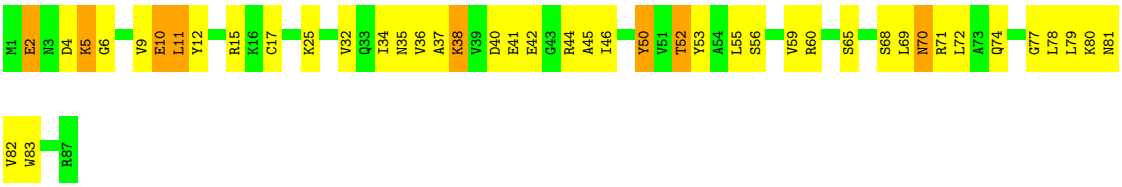
• Molecule 23: 40S ribosomal protein S21-A

Chain D1:



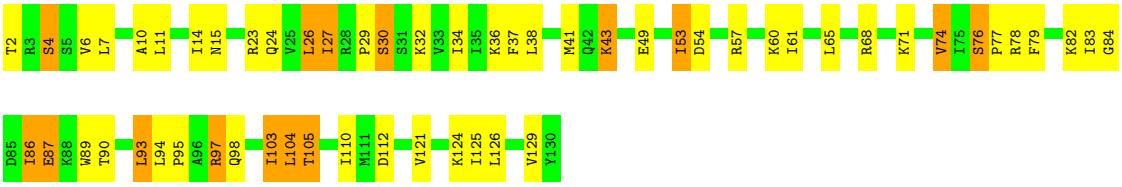
• Molecule 23: 40S ribosomal protein S21-A

Chain d1:



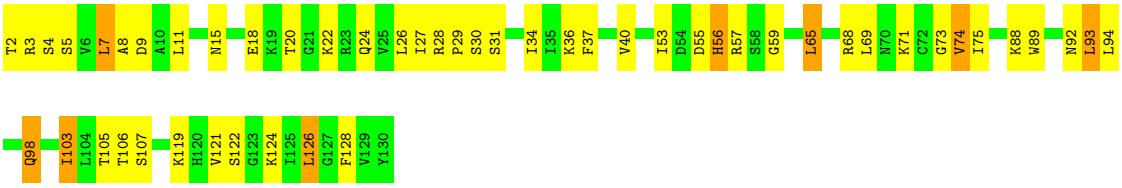
• Molecule 24: 40S ribosomal protein S22-A

Chain D2:



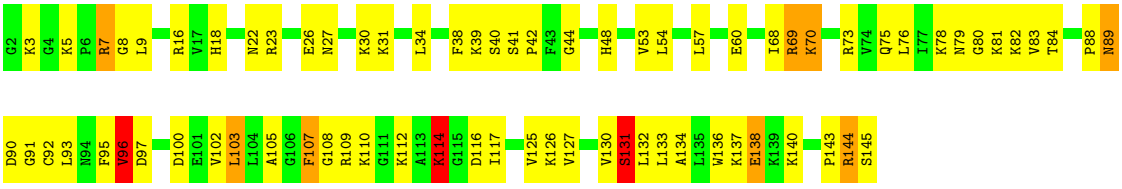
• Molecule 24: 40S ribosomal protein S22-A

Chain d2:



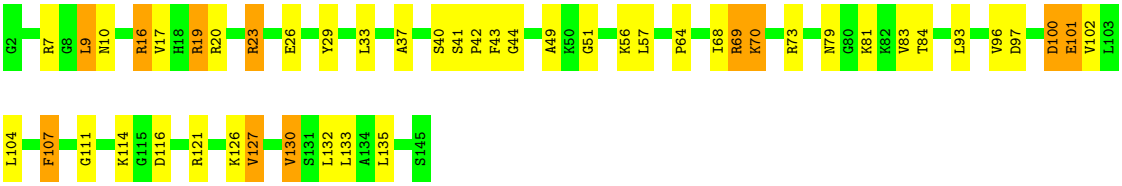
• Molecule 25: 40S ribosomal protein S23-A

Chain D3:



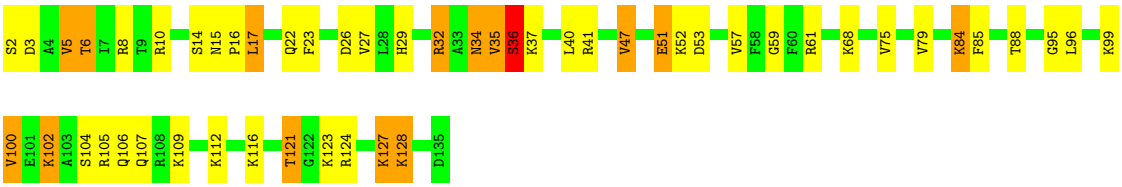
• Molecule 25: 40S ribosomal protein S23-A

Chain d3:



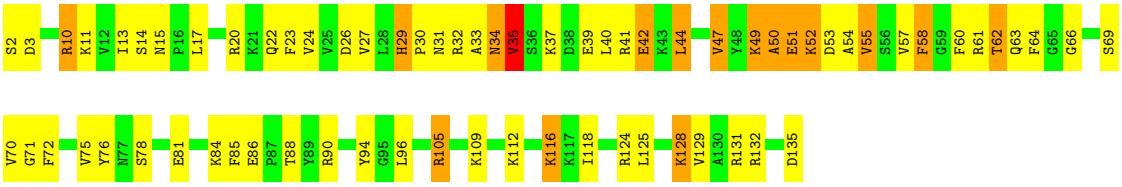
• Molecule 26: 40S ribosomal protein S24-A

Chain D4:



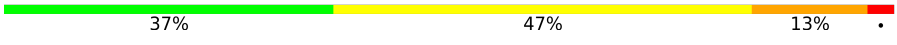
• Molecule 26: 40S ribosomal protein S24-A

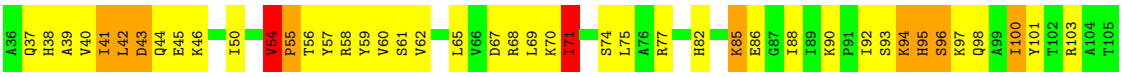
Chain d4:



• Molecule 27: 40S ribosomal protein S25-A

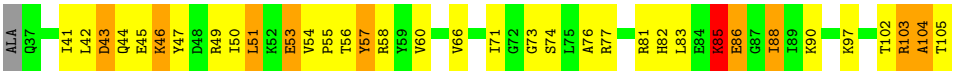
Chain D5:





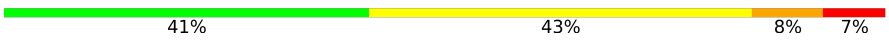
• Molecule 27: 40S ribosomal protein S25-A

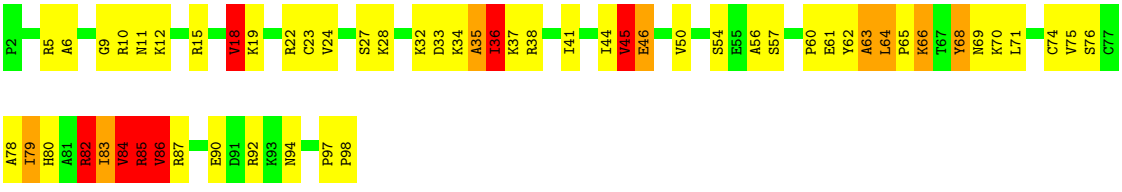
Chain d5:



• Molecule 28: 40S ribosomal protein S26-B

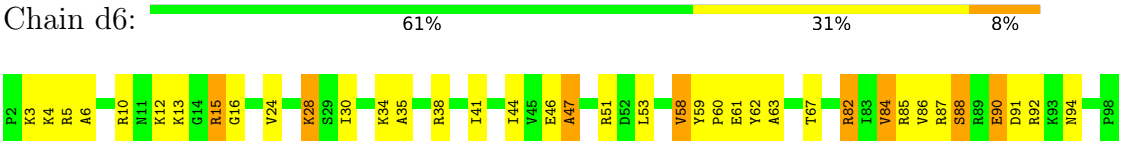
Chain D6:





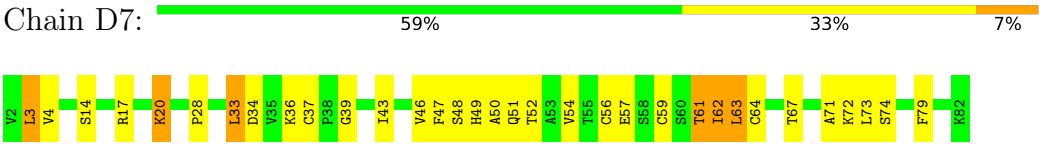
• Molecule 28: 40S ribosomal protein S26-B

Chain d6:



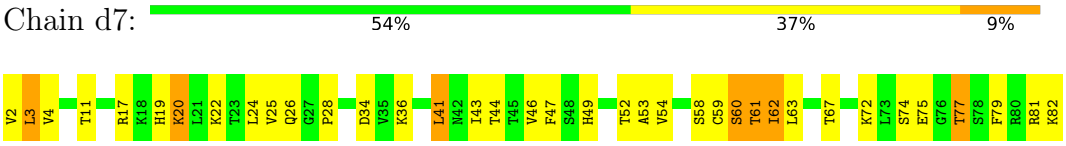
• Molecule 29: 40S ribosomal protein S27-A

Chain D7:



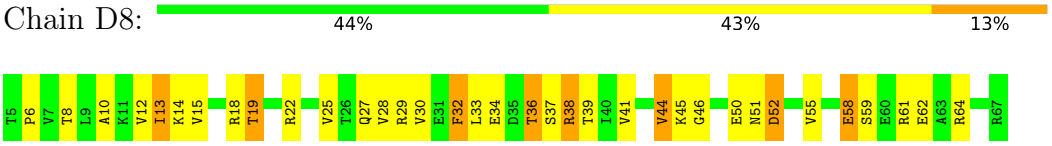
• Molecule 29: 40S ribosomal protein S27-A

Chain d7:



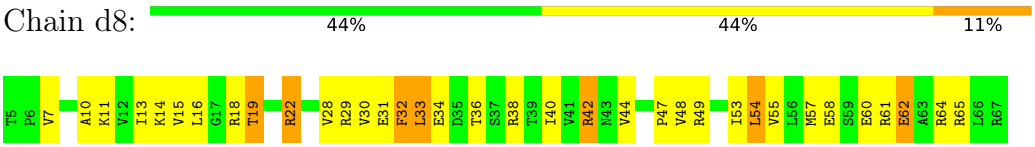
• Molecule 30: 40S ribosomal protein S28-A

Chain D8:



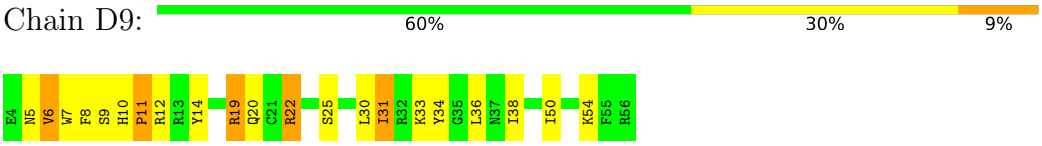
• Molecule 30: 40S ribosomal protein S28-A

Chain d8:



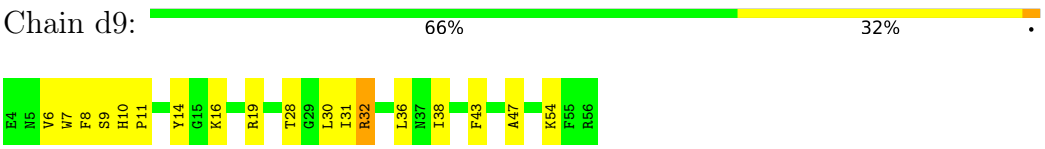
• Molecule 31: 40S ribosomal protein S29-A

Chain D9:



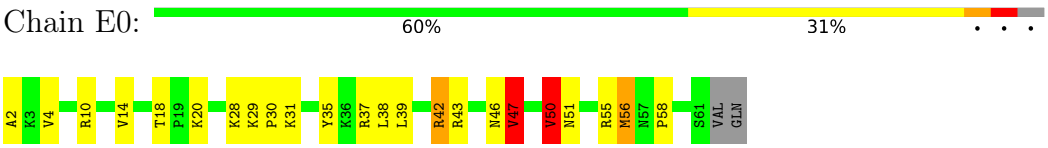
• Molecule 31: 40S ribosomal protein S29-A

Chain d9:



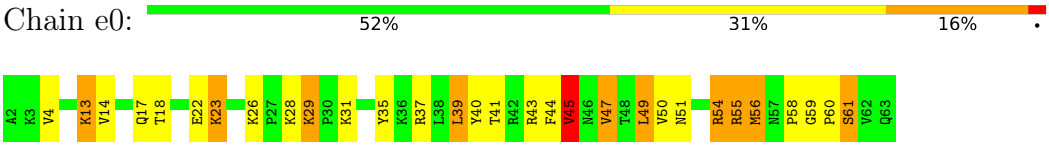
• Molecule 32: 40S ribosomal protein S30-A

Chain E0:



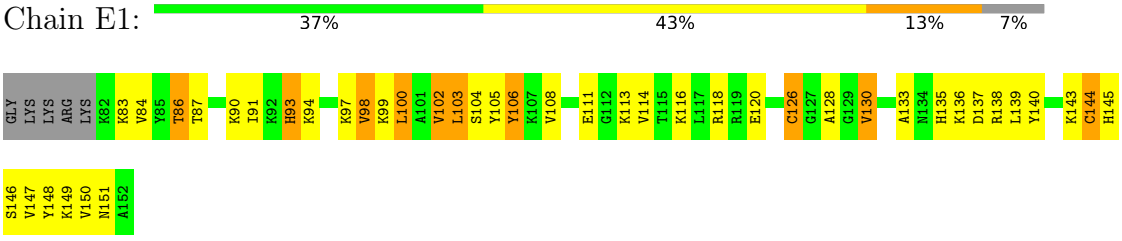
• Molecule 32: 40S ribosomal protein S30-A

Chain e0:



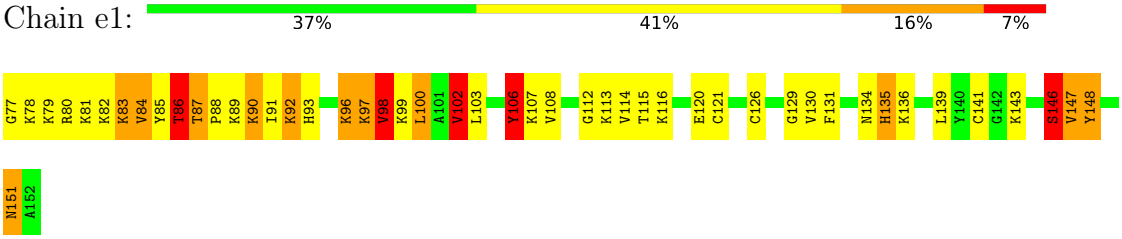
• Molecule 33: Ubiquitin-40S ribosomal protein S31

Chain E1:



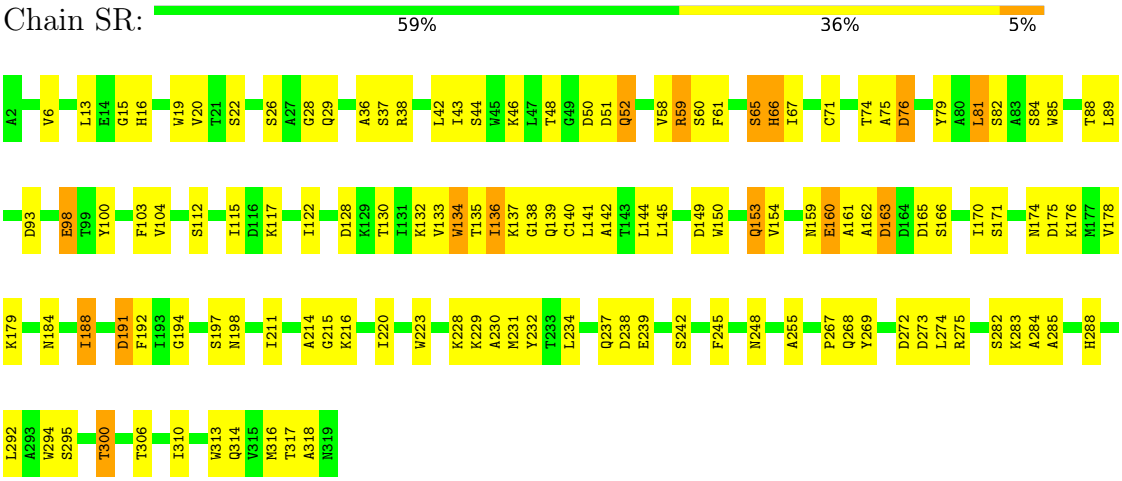
• Molecule 33: Ubiquitin-40S ribosomal protein S31

Chain e1:



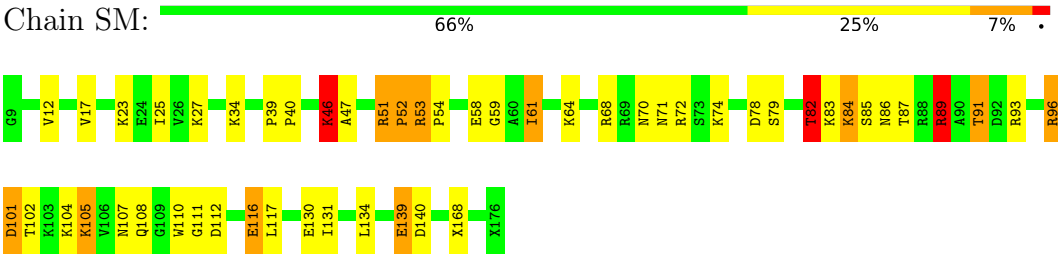
• Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

Chain SR:



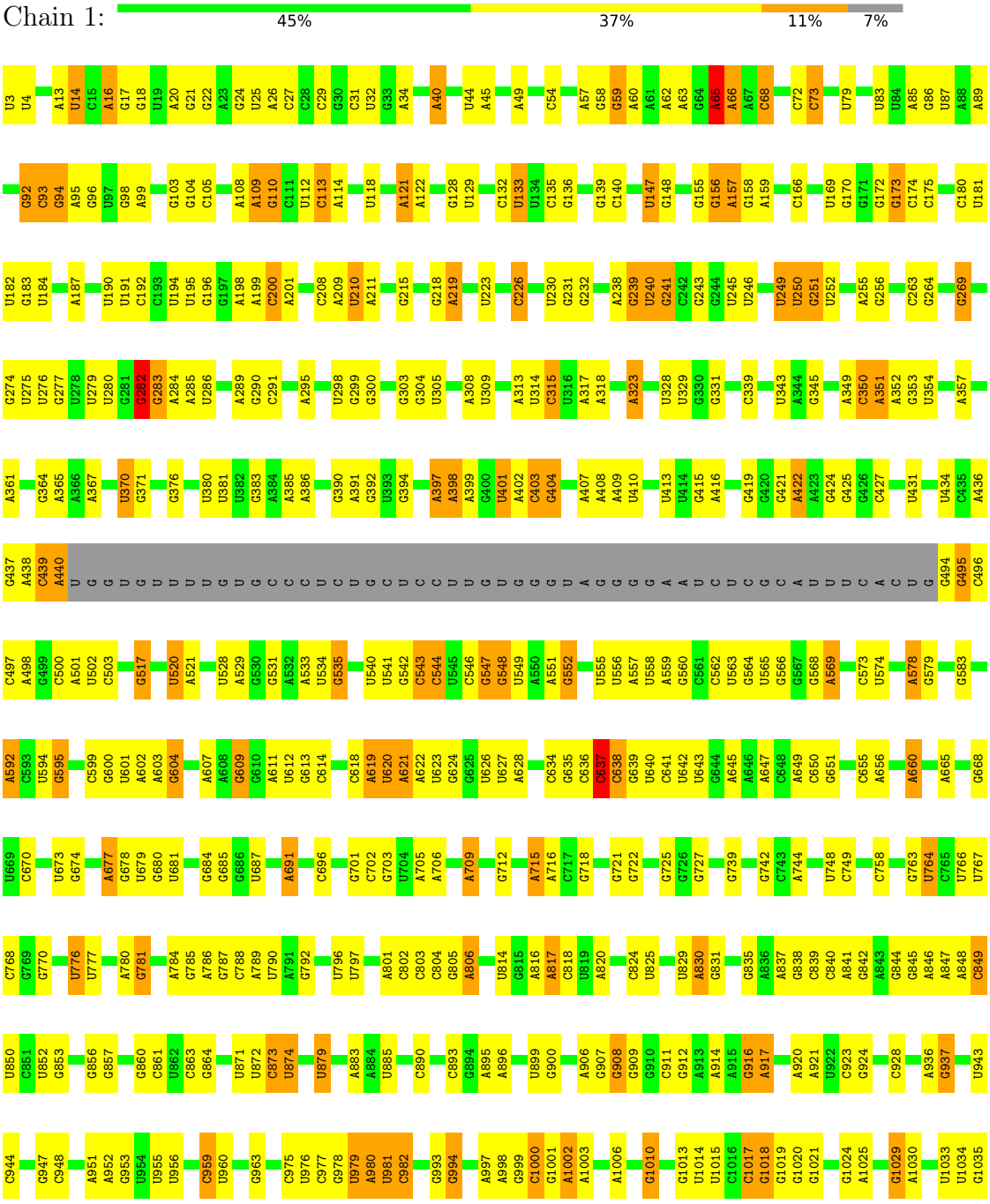
• Molecule 35: Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1

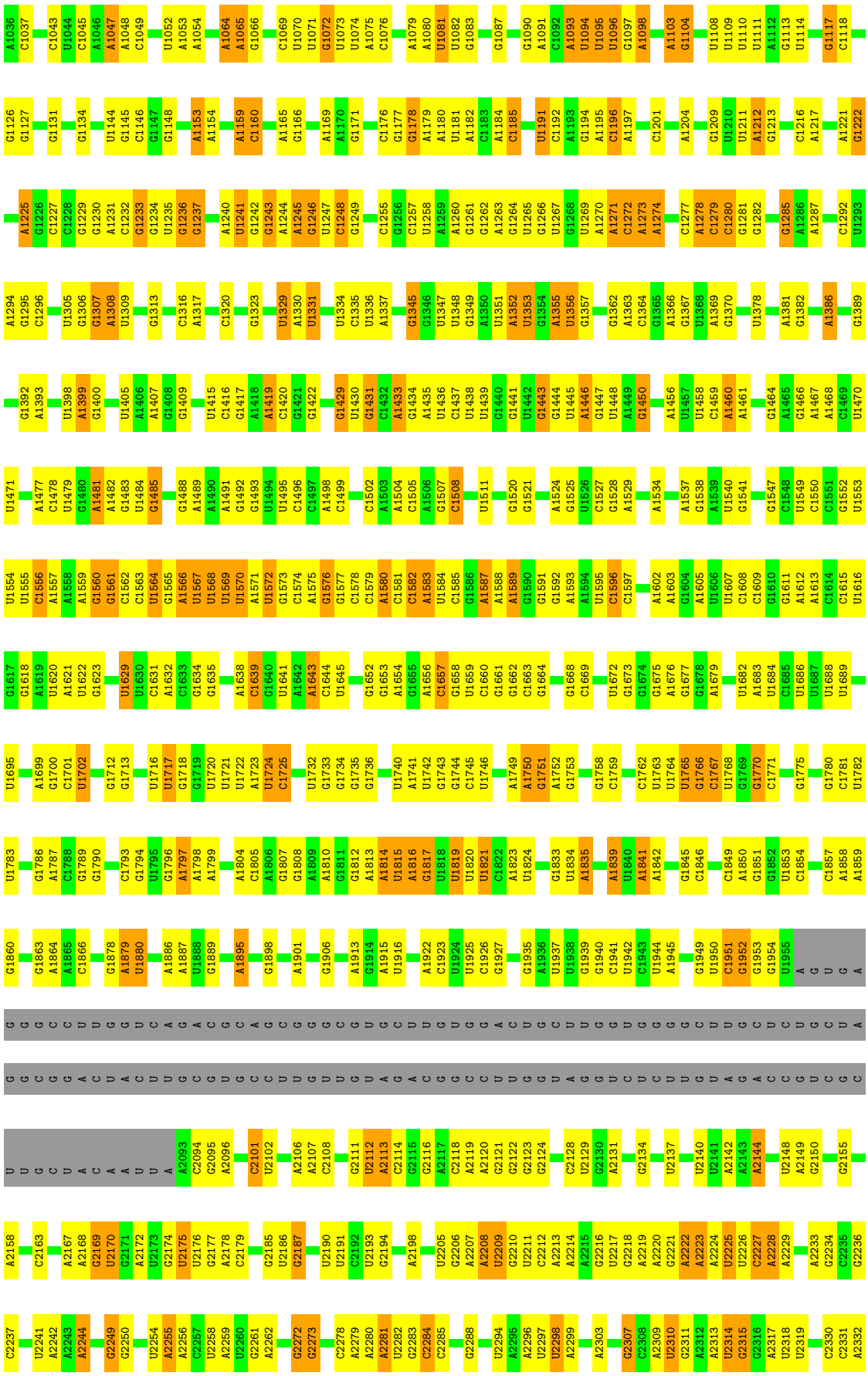
Chain SM:

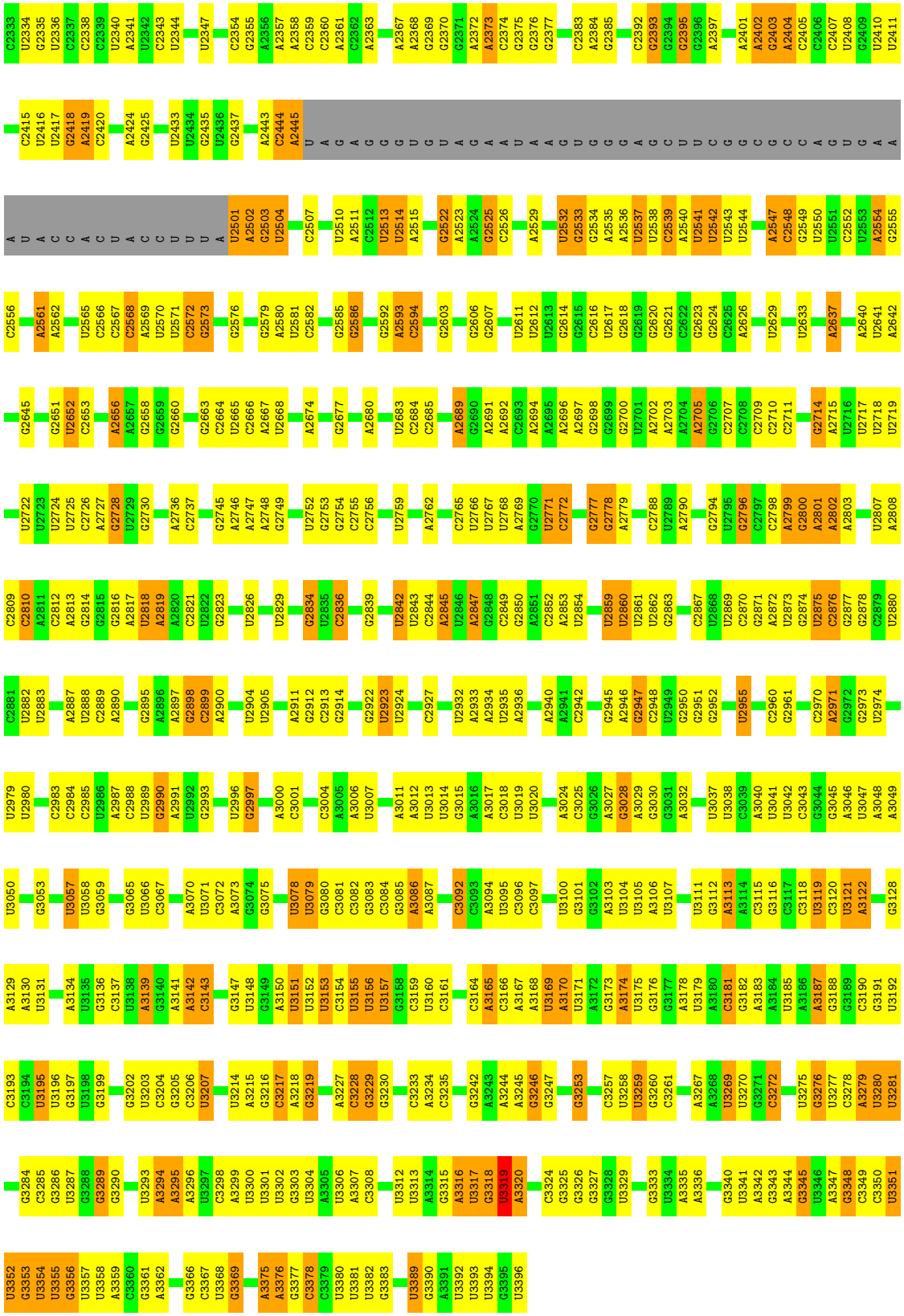


• Molecule 36: 25S rRNA

Chain 1:

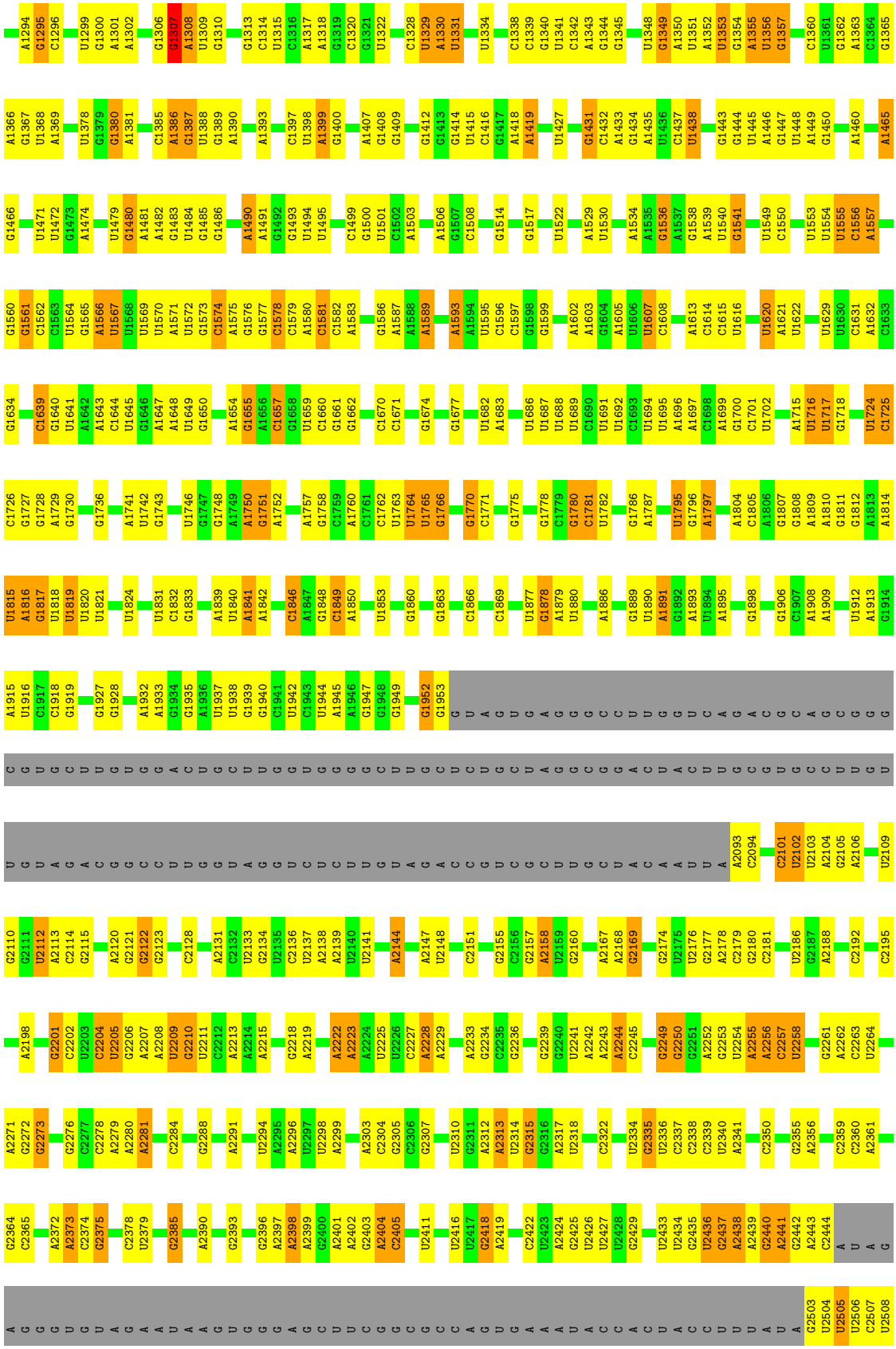


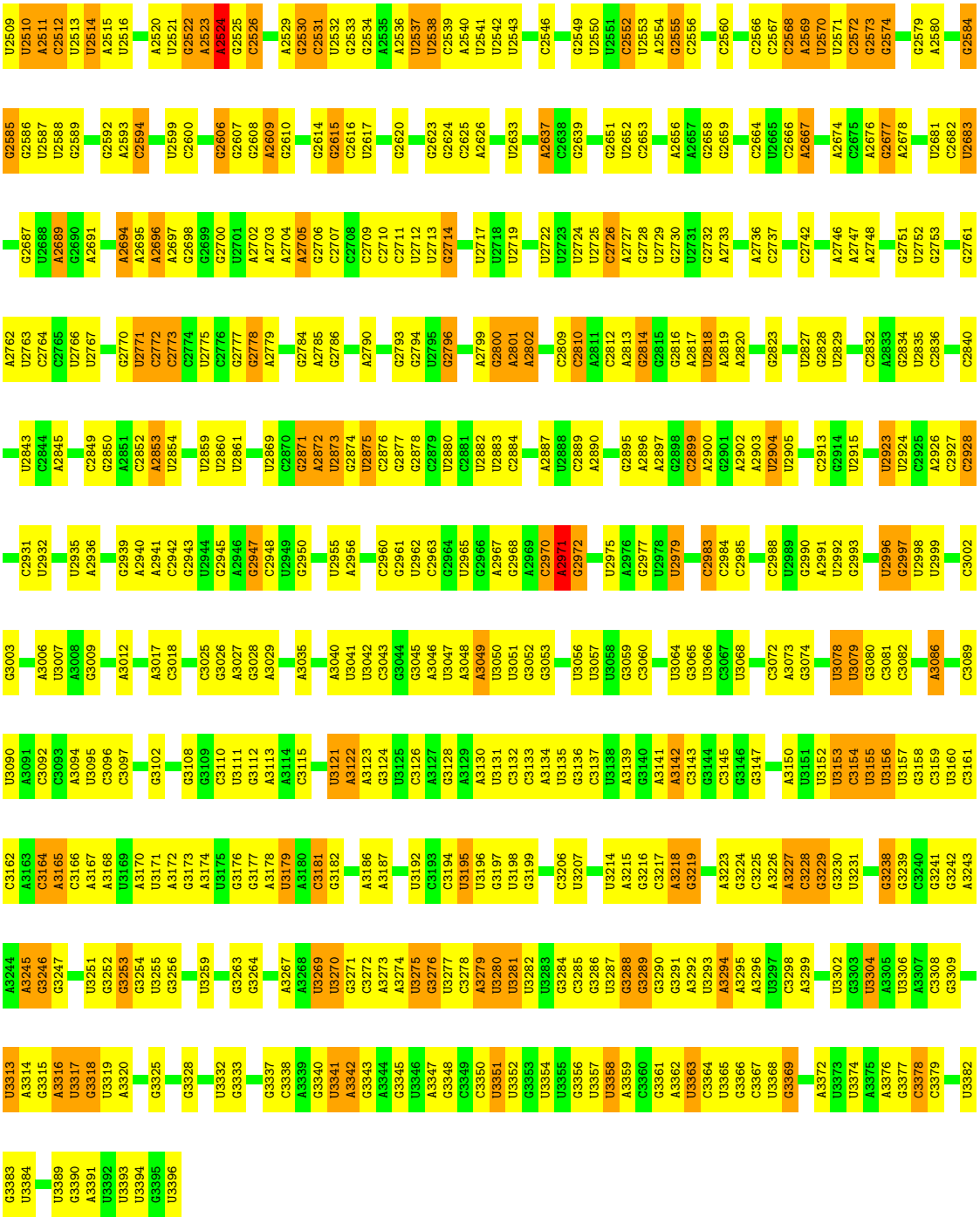




• Molecule 36: 25S rRNA

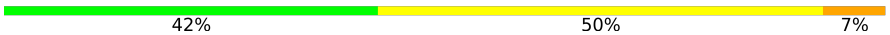
Chain 5: 43% 38% 11% 7%

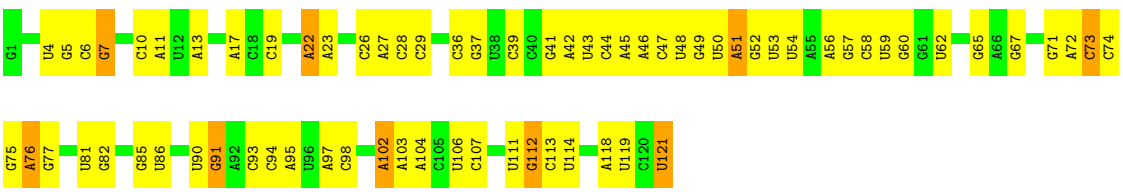




• Molecule 37: 5S rRNA

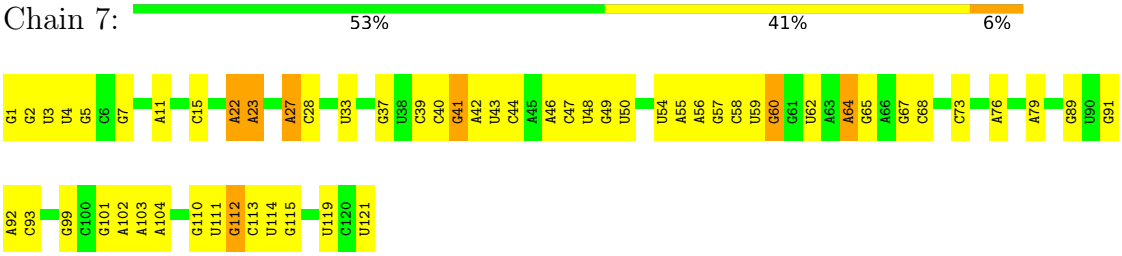
Chain 3:





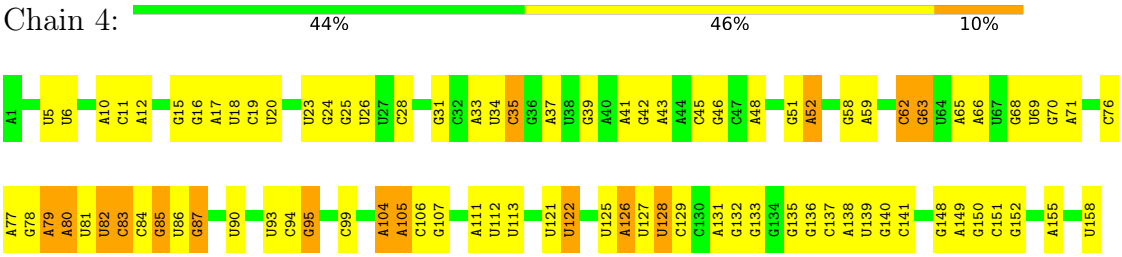
• Molecule 37: 5S rRNA

Chain 7:



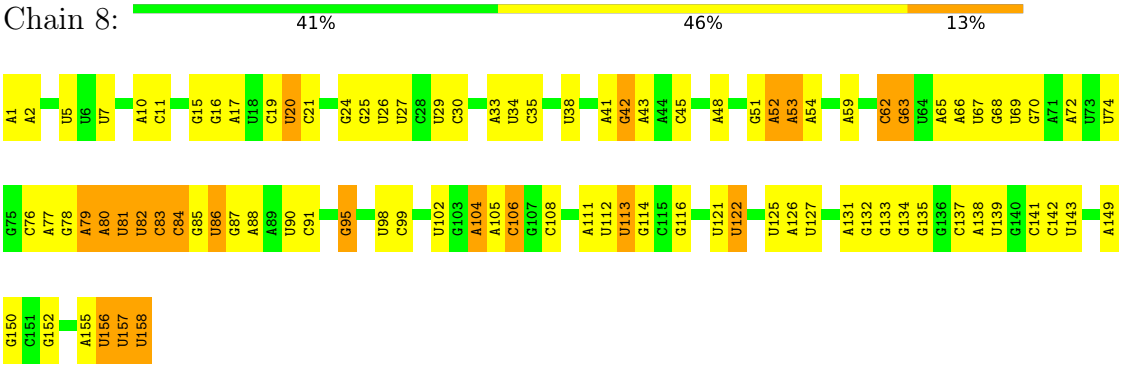
• Molecule 38: 5.8S rRNA

Chain 4:



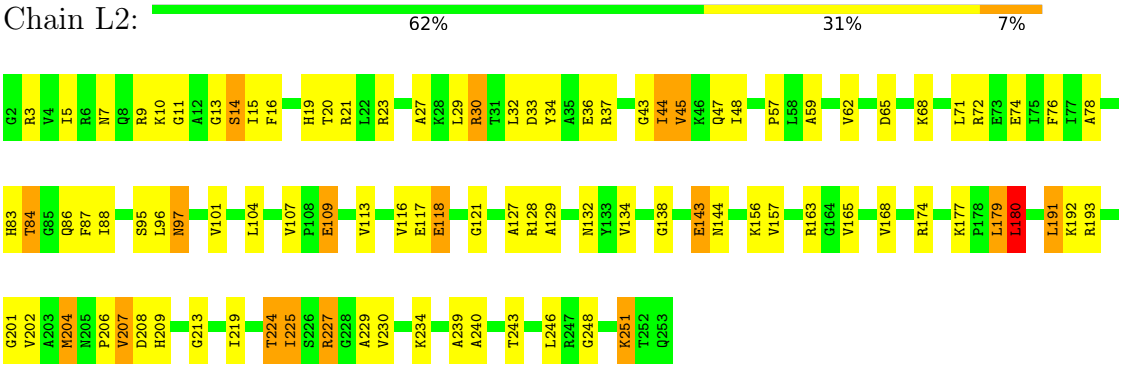
• Molecule 38: 5.8S rRNA

Chain 8:



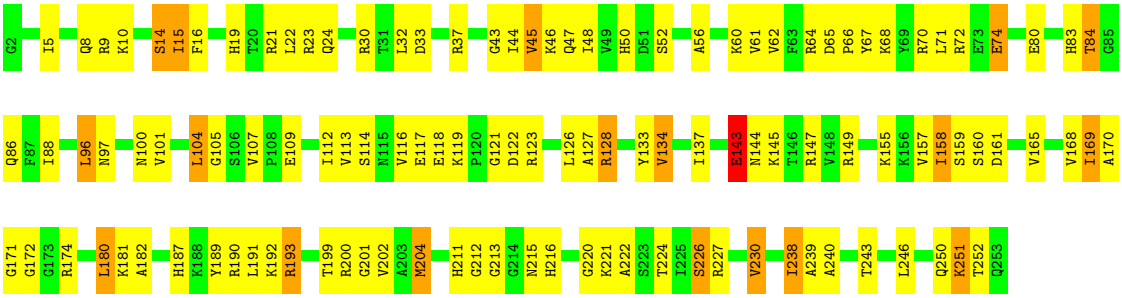
• Molecule 39: 60S ribosomal protein L2-A

Chain L2:



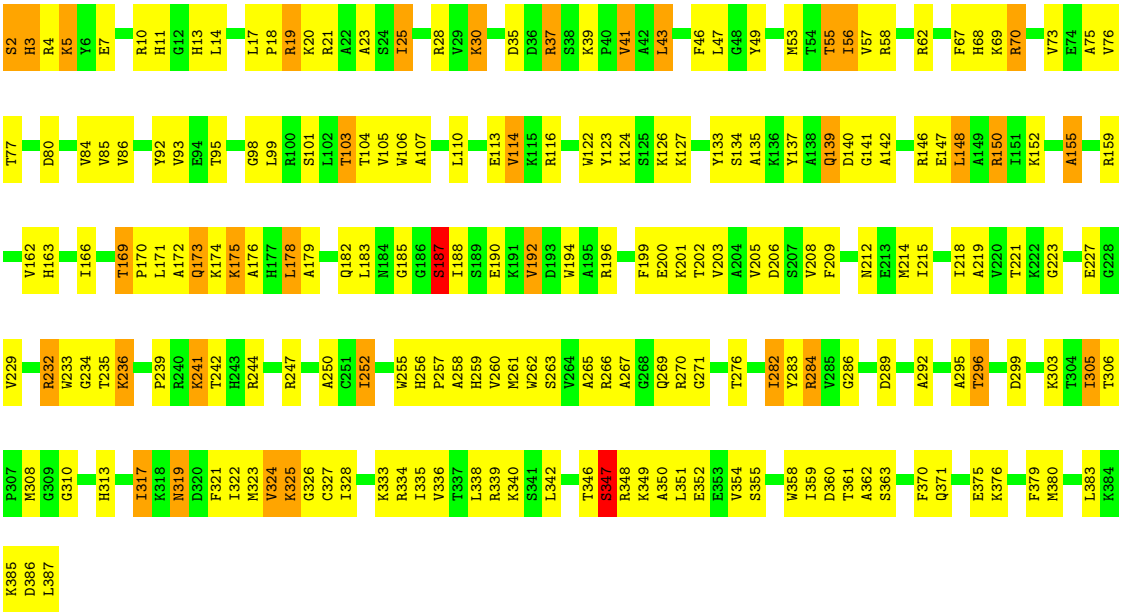
• Molecule 39: 60S ribosomal protein L2-A

Chain l2:



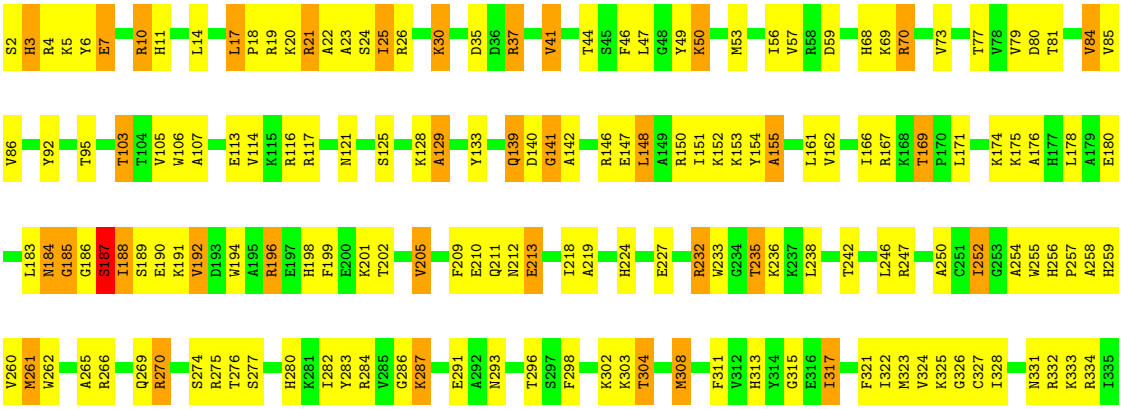
• Molecule 40: 60S ribosomal protein L3

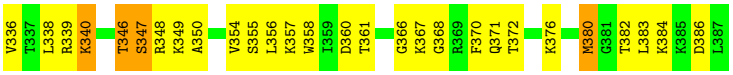
Chain L3:



• Molecule 40: 60S ribosomal protein L3

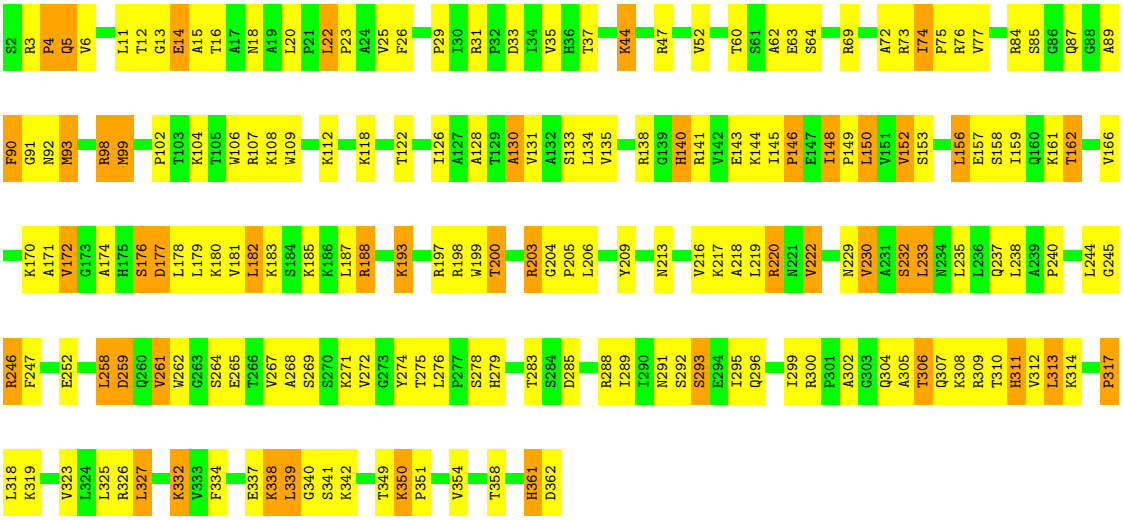
Chain l3:





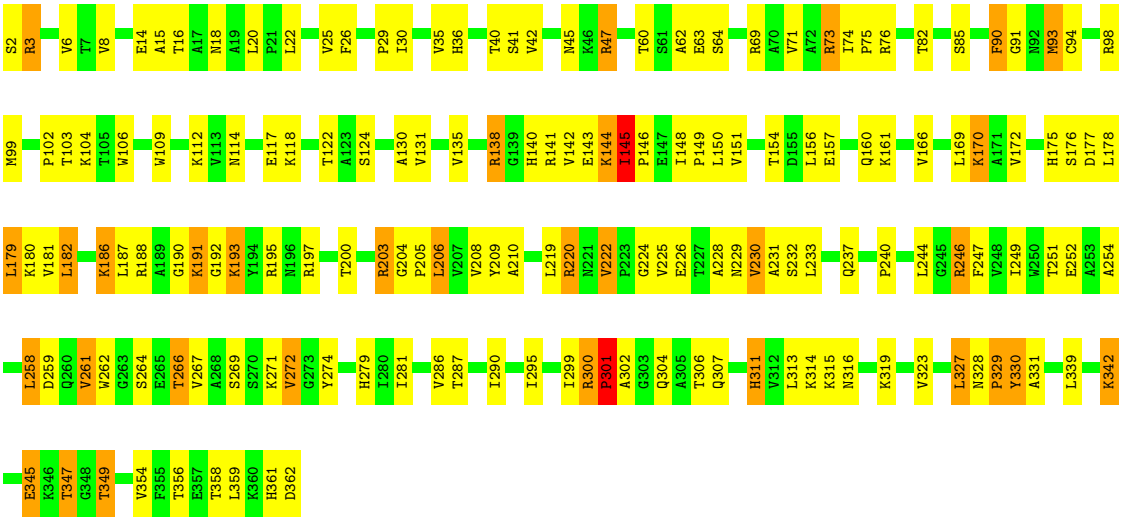
• Molecule 41: 60S ribosomal protein L4-A

Chain L4:



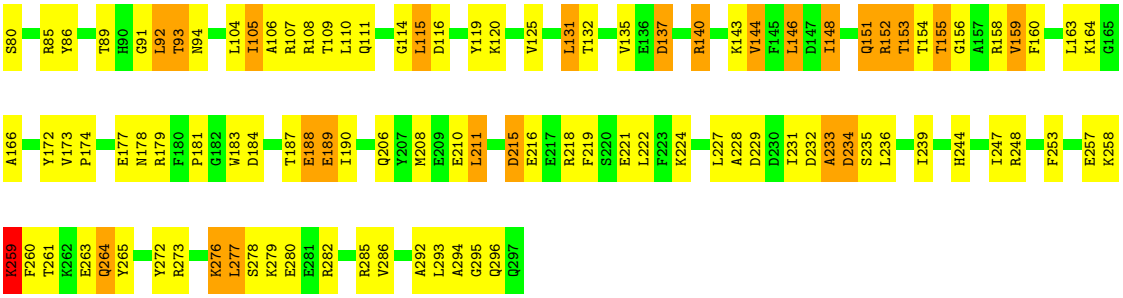
• Molecule 41: 60S ribosomal protein L4-A

Chain l4:



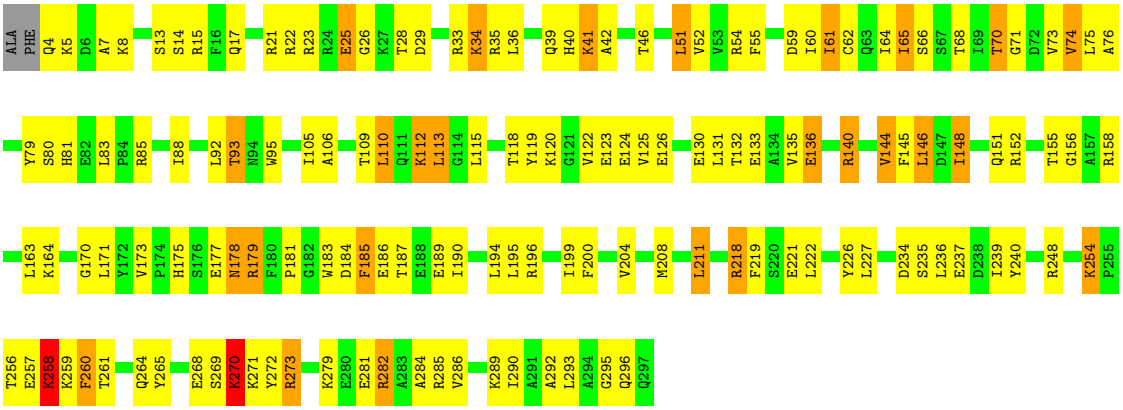
• Molecule 42: 60S ribosomal protein L5

Chain L5:



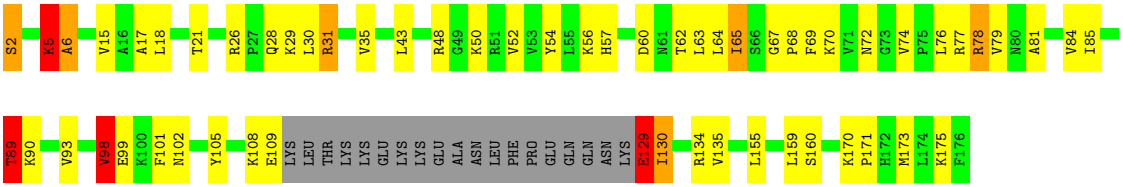
• Molecule 42: 60S ribosomal protein L5

Chain l5:



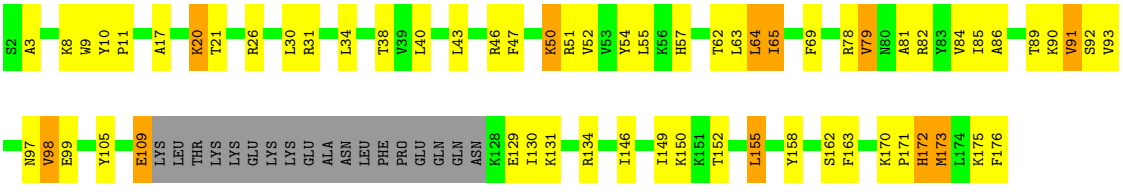
• Molecule 43: 60S ribosomal protein L6-A

Chain L6:



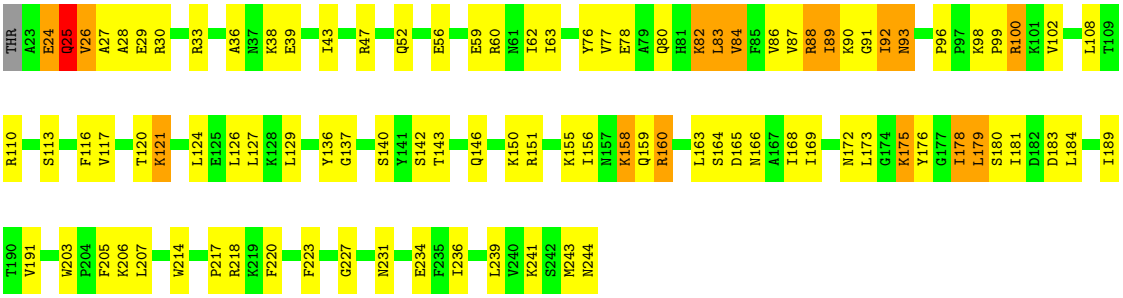
• Molecule 43: 60S ribosomal protein L6-A

Chain l6:



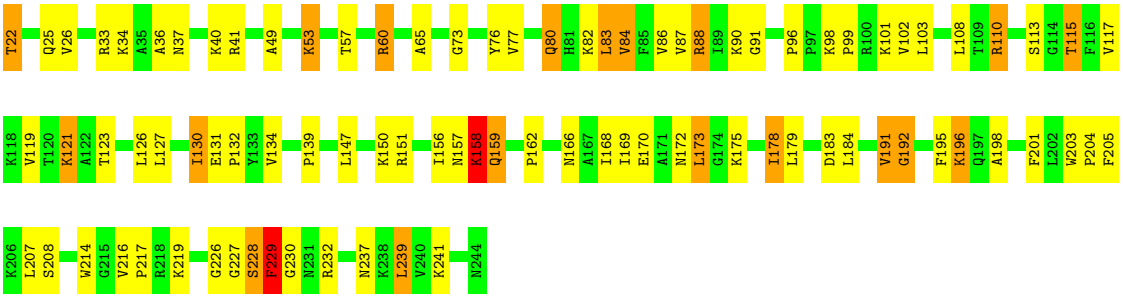
• Molecule 44: 60S ribosomal protein L7-A

Chain L7:



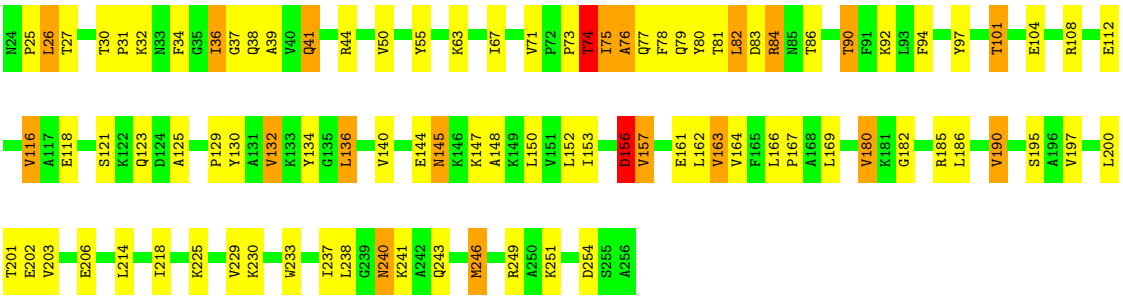
• Molecule 44: 60S ribosomal protein L7-A

Chain l7:



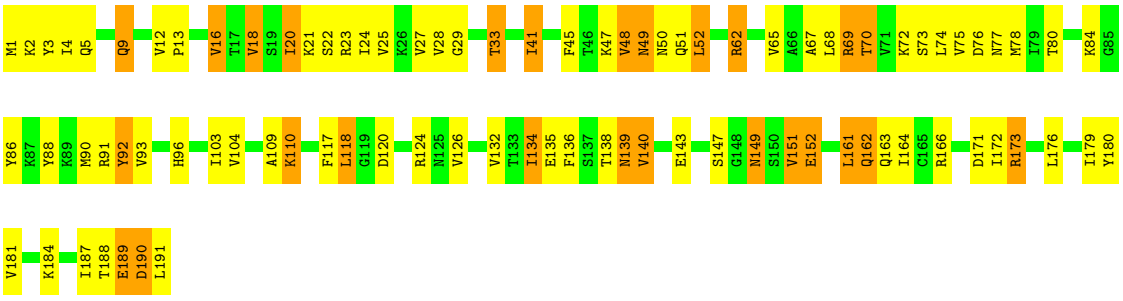
• Molecule 45: 60S ribosomal protein L8-A

Chain L8:



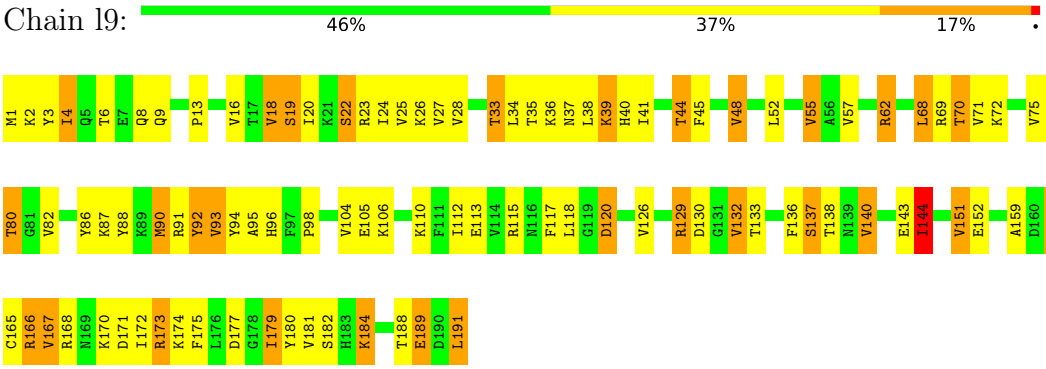
• Molecule 46: 60S ribosomal protein L9-A

Chain L9:



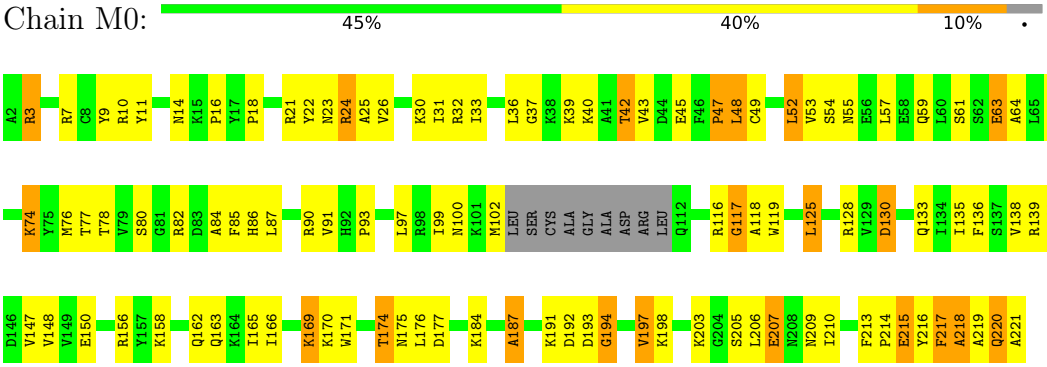
• Molecule 46: 60S ribosomal protein L9-A

Chain l9:



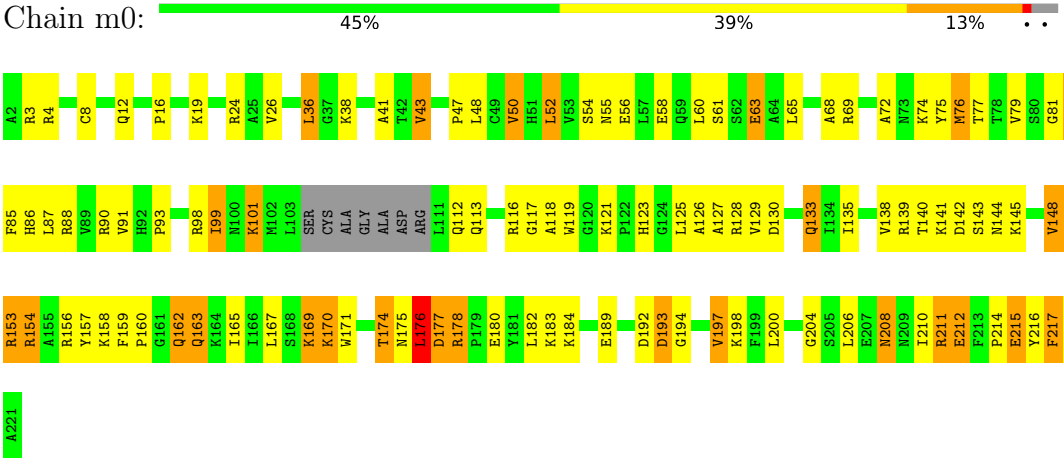
• Molecule 47: 60S ribosomal protein L10

Chain M0:



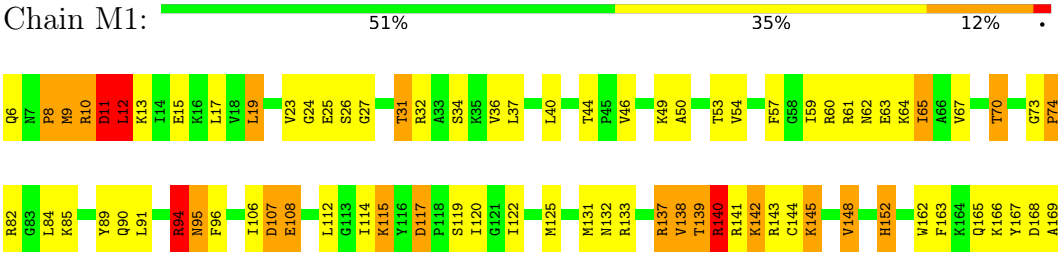
• Molecule 47: 60S ribosomal protein L10

Chain m0:



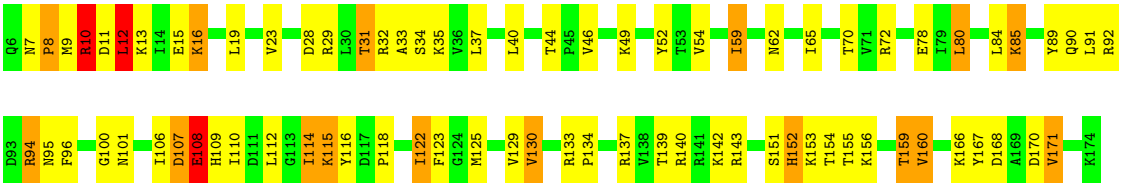
• Molecule 48: 60S ribosomal protein L11-B

Chain M1:



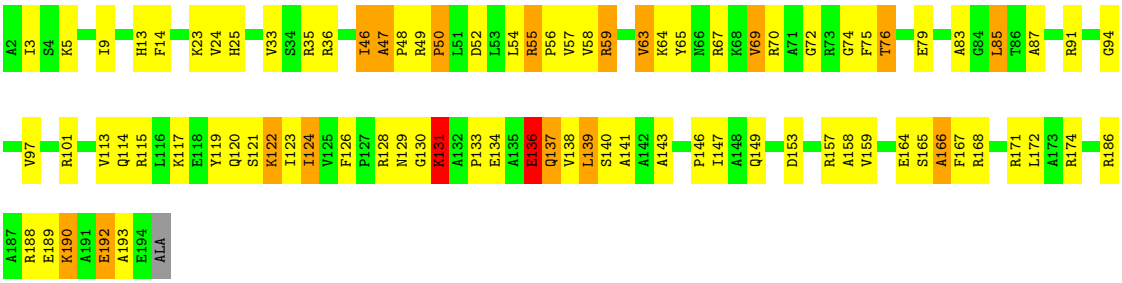
• Molecule 48: 60S ribosomal protein L11-B

Chain m1:



• Molecule 49: 60S ribosomal protein L13-A

Chain M3:

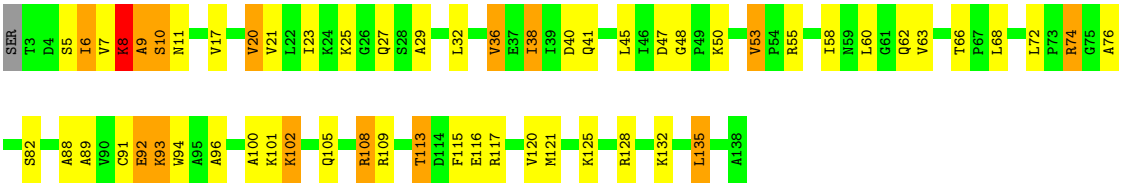


• Molecule 49: 60S ribosomal protein L13-A

Chain m3:

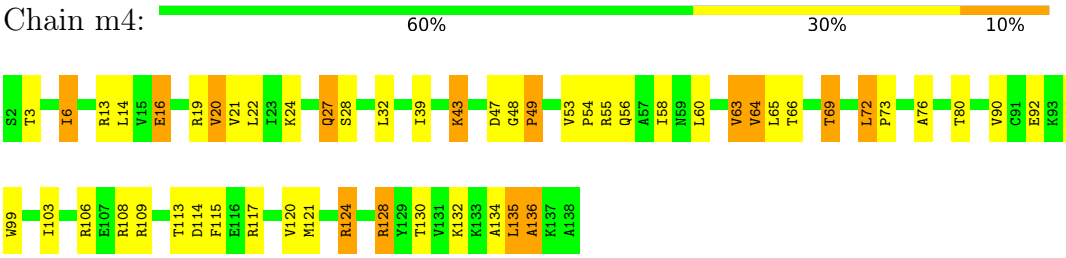
• Molecule 50: 60S ribosomal protein L14-A

Chain M4:



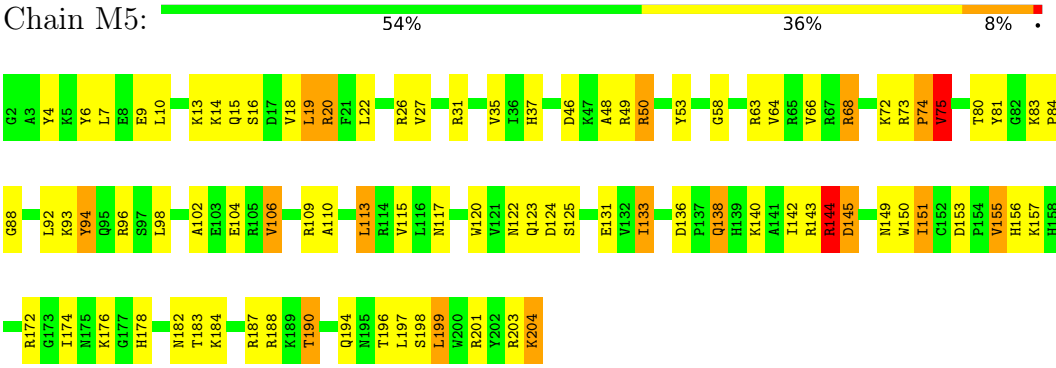
• Molecule 50: 60S ribosomal protein L14-A

Chain m4:



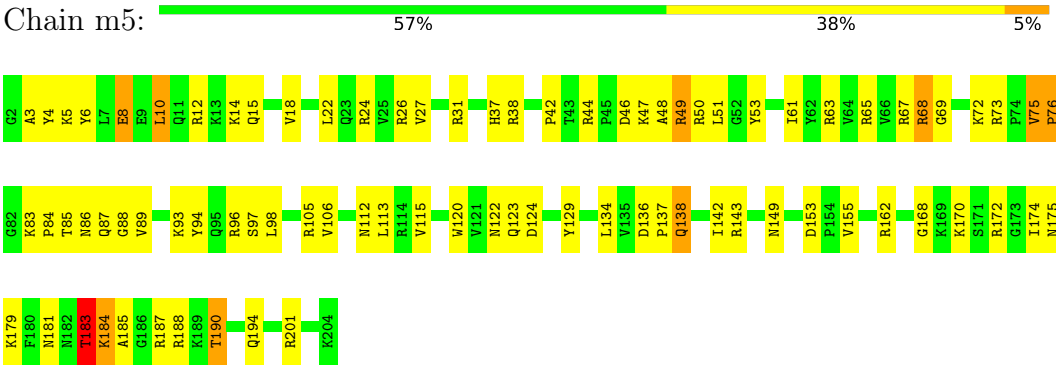
• Molecule 51: 60S ribosomal protein L15-A

Chain M5:



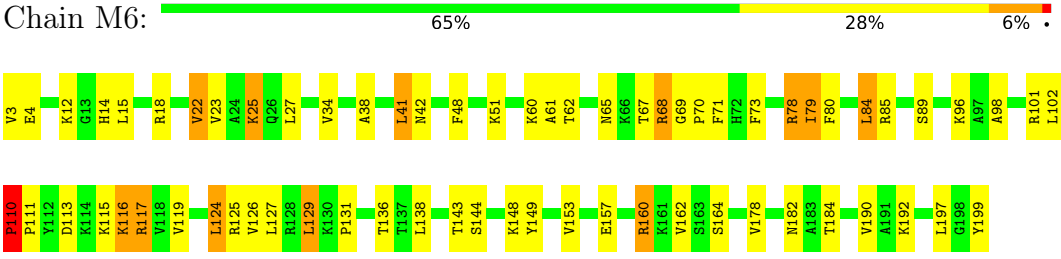
• Molecule 51: 60S ribosomal protein L15-A

Chain m5:



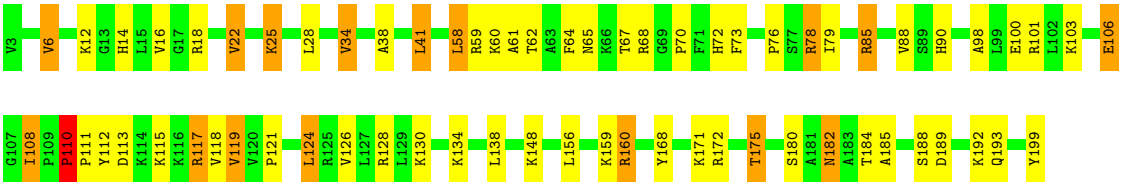
• Molecule 52: 60S ribosomal protein L16-A

Chain M6:



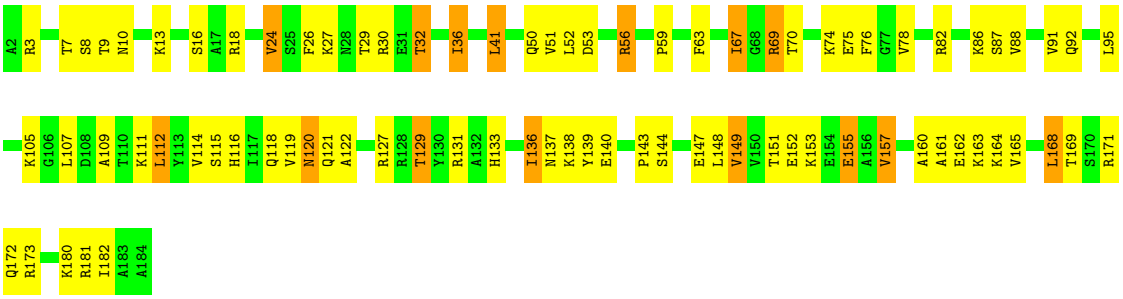
• Molecule 52: 60S ribosomal protein L16-A

Chain m6:



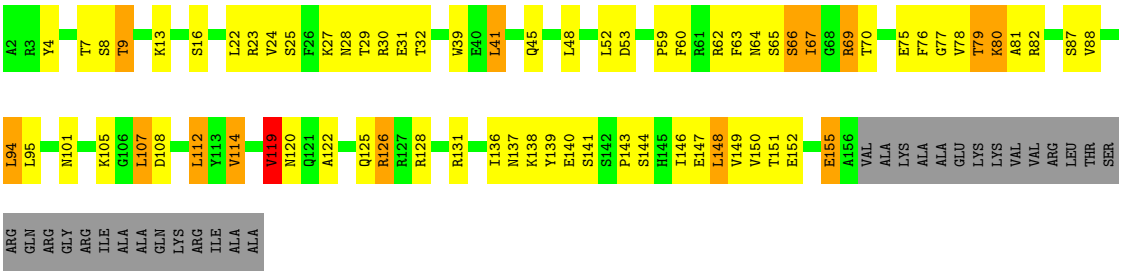
• Molecule 53: 60S ribosomal protein L17-A

Chain M7:



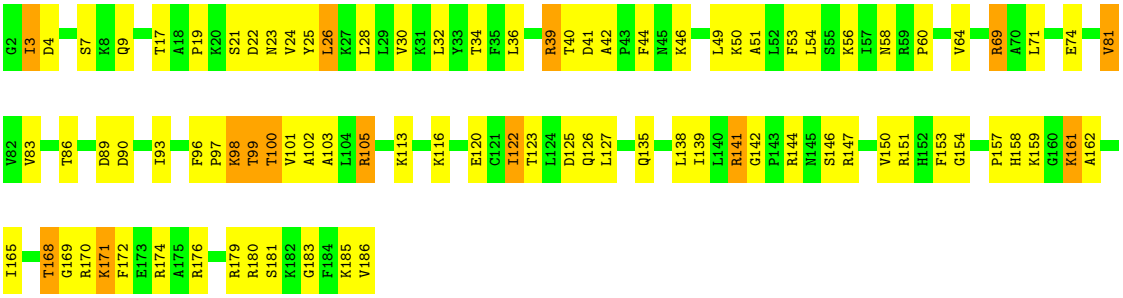
• Molecule 53: 60S ribosomal protein L17-A

Chain m7:



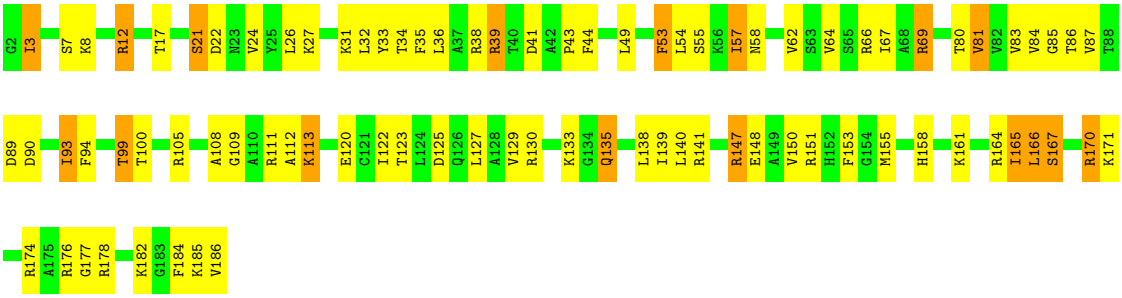
• Molecule 54: 60S ribosomal protein L18-A

Chain M8:



• Molecule 54: 60S ribosomal protein L18-A

Chain m8:

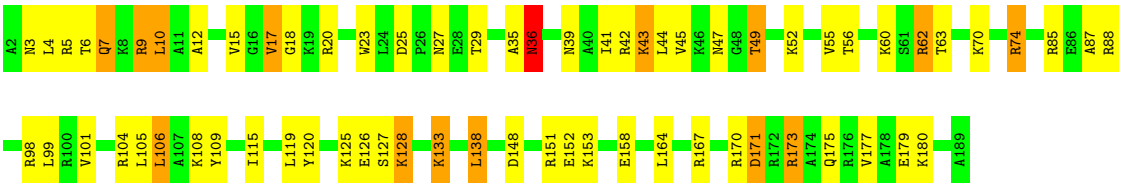


• Molecule 55: 60S ribosomal protein L19-A

Chain M9:

• Molecule 55: 60S ribosomal protein L19-A

Chain m9:

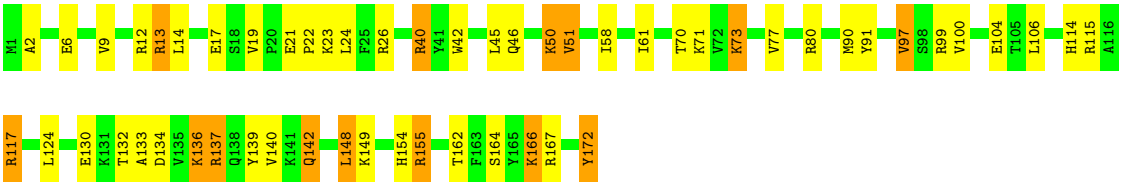


• Molecule 56: 60S ribosomal protein L20-A

Chain N0:

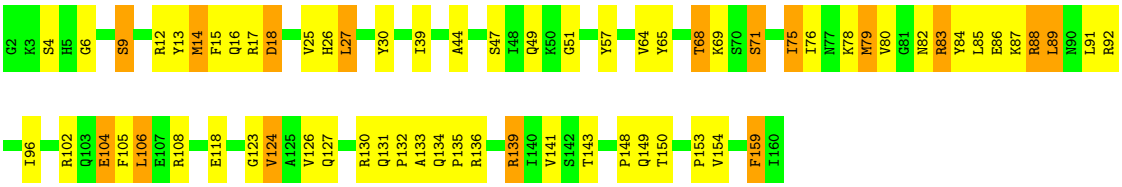
• Molecule 56: 60S ribosomal protein L20-A

Chain n0:



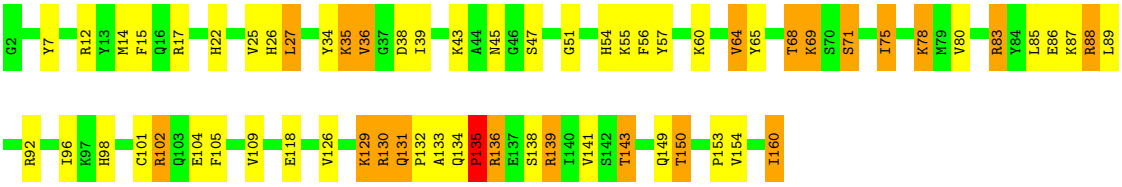
• Molecule 57: 60S ribosomal protein L21-A

Chain N1:



• Molecule 57: 60S ribosomal protein L21-A

Chain n1:

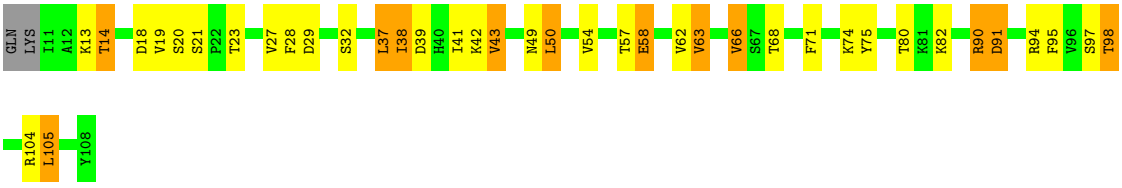


• Molecule 58: 60S ribosomal protein L22-A

Chain N2:

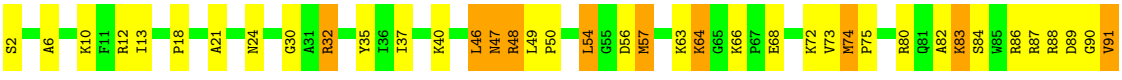
• Molecule 58: 60S ribosomal protein L22-A

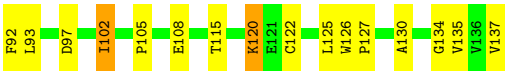
Chain n2:



• Molecule 59: 60S ribosomal protein L23-A

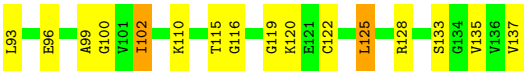
Chain N3:





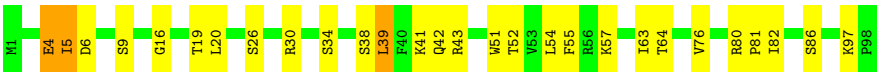
• Molecule 59: 60S ribosomal protein L23-A

Chain n3:



• Molecule 60: 60S ribosomal protein L24-A

Chain N4:

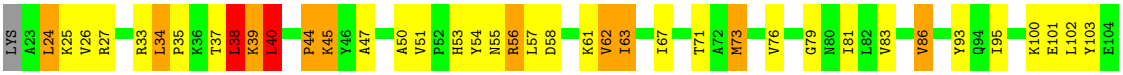


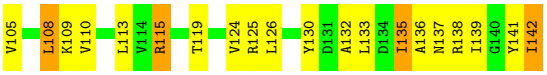
• Molecule 61: 60S ribosomal protein L25

Chain N5:

• Molecule 61: 60S ribosomal protein L25

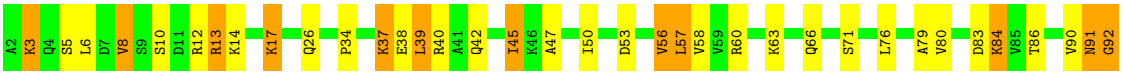
Chain n5:

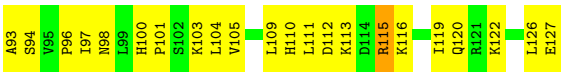




• Molecule 62: 60S ribosomal protein L26-A

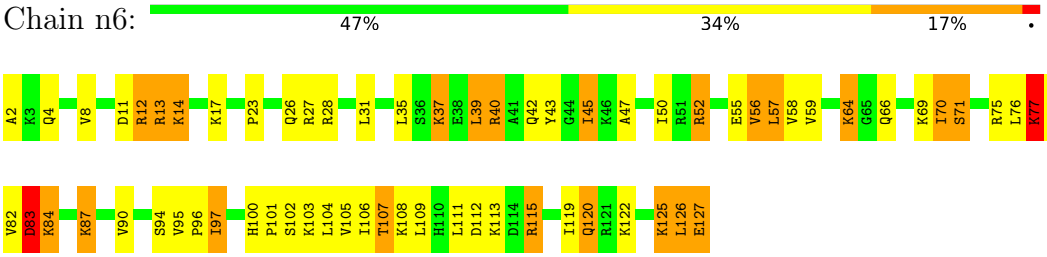
Chain N6:





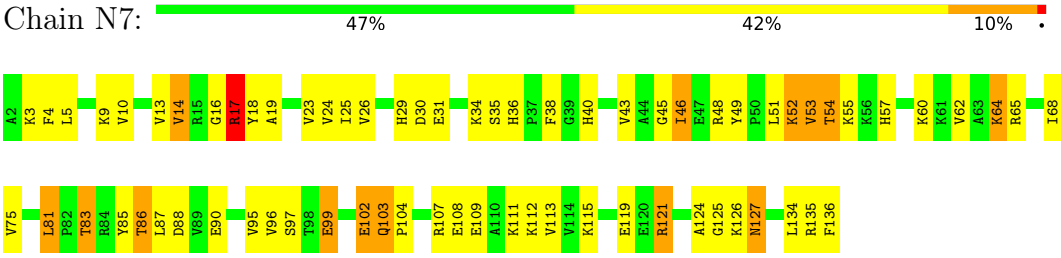
• Molecule 62: 60S ribosomal protein L26-A

Chain n6:



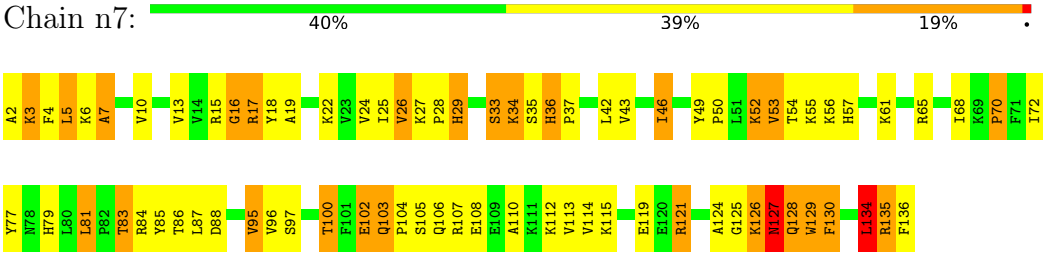
• Molecule 63: 60S ribosomal protein L27-A

Chain N7:



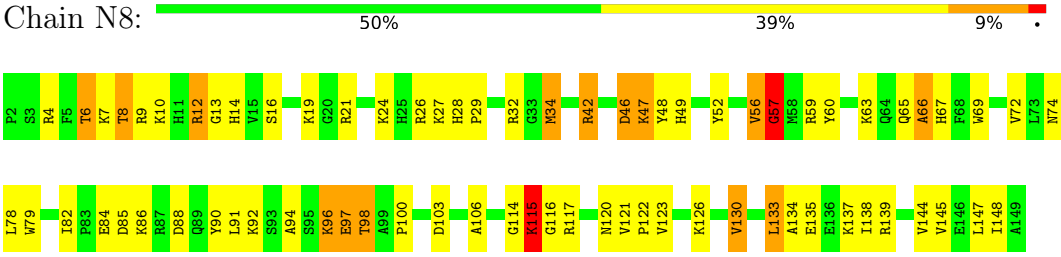
• Molecule 63: 60S ribosomal protein L27-A

Chain n7:



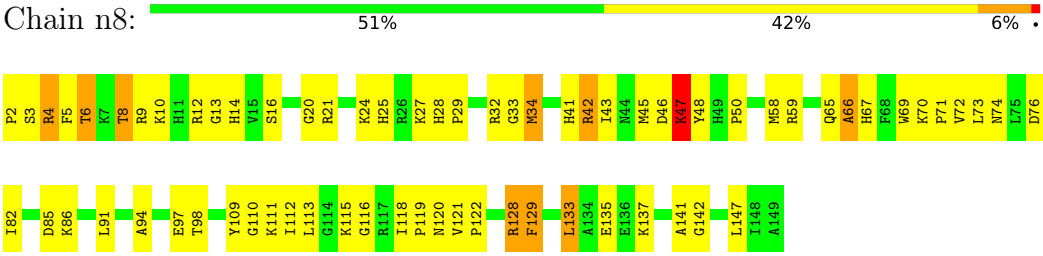
• Molecule 64: 60S ribosomal protein L28

Chain N8:



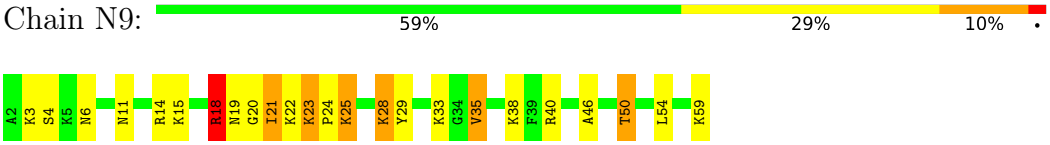
• Molecule 64: 60S ribosomal protein L28

Chain n8:



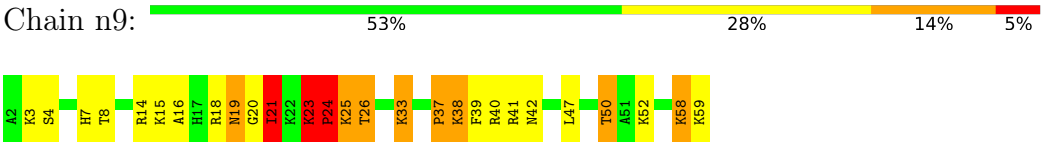
• Molecule 65: 60S ribosomal protein L29

Chain N9:



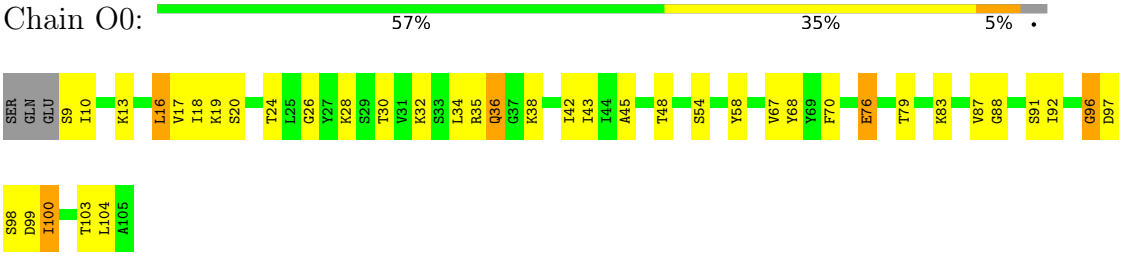
• Molecule 65: 60S ribosomal protein L29

Chain n9:



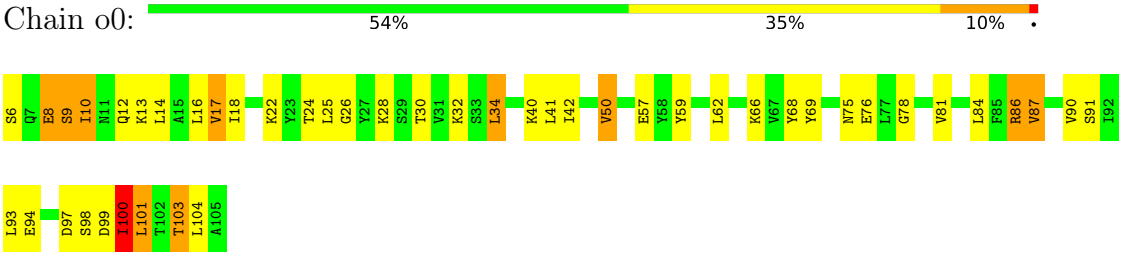
• Molecule 66: 60S ribosomal protein L30

Chain O0:



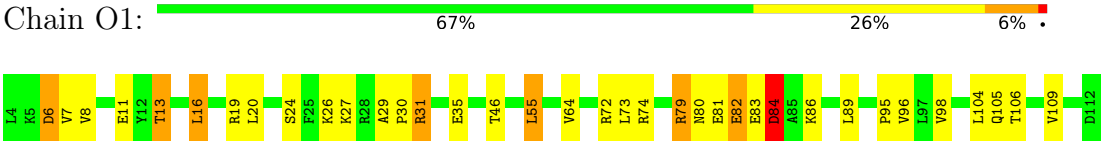
• Molecule 66: 60S ribosomal protein L30

Chain o0:



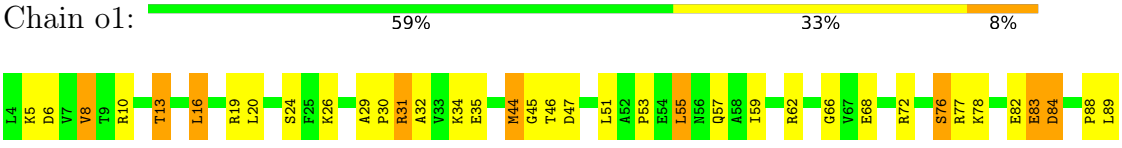
• Molecule 67: 60S ribosomal protein L31-A

Chain O1:



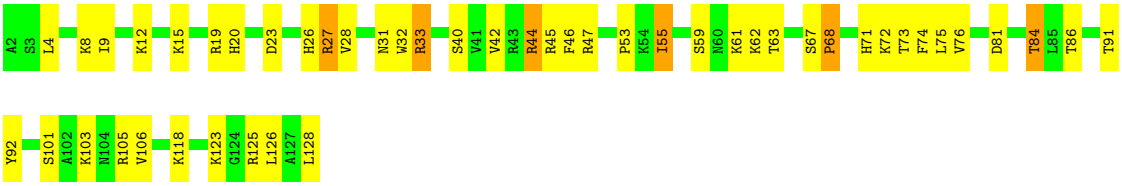
• Molecule 67: 60S ribosomal protein L31-A

Chain o1:



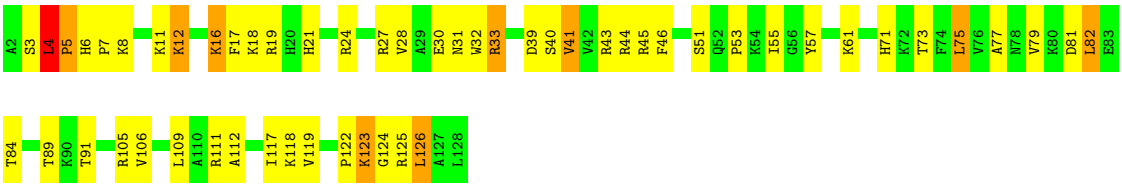
• Molecule 68: 60S ribosomal protein L32

Chain O2:



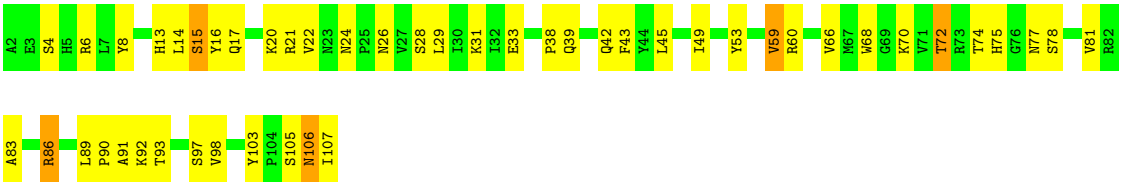
• Molecule 68: 60S ribosomal protein L32

Chain o2:



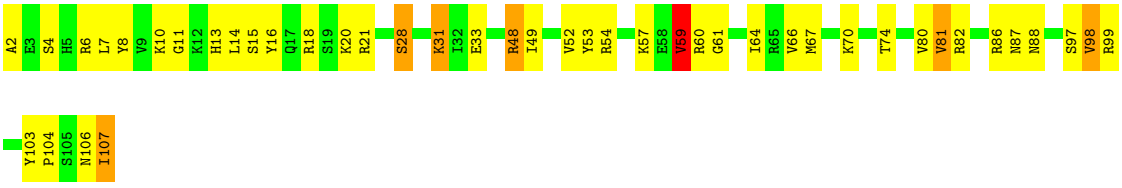
• Molecule 69: 60S ribosomal protein L33-A

Chain O3:



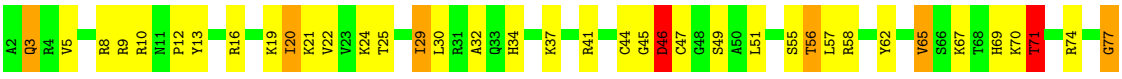
• Molecule 69: 60S ribosomal protein L33-A

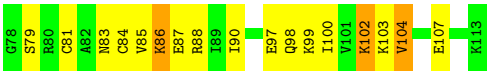
Chain o3:



• Molecule 70: 60S ribosomal protein L34-A

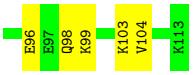
Chain O4:





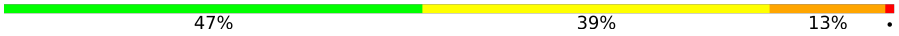
• Molecule 70: 60S ribosomal protein L34-A

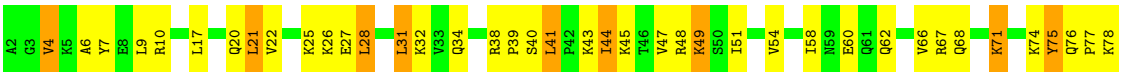
Chain o4:

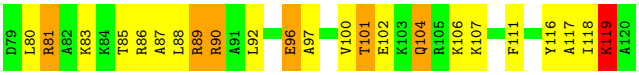


• Molecule 71: 60S ribosomal protein L35-A

Chain O5:

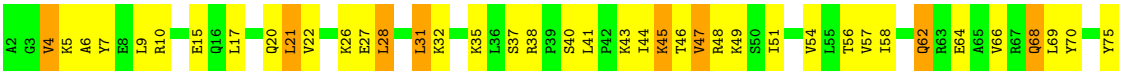


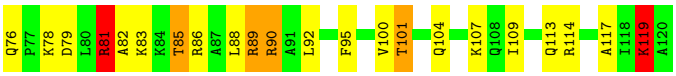




• Molecule 71: 60S ribosomal protein L35-A

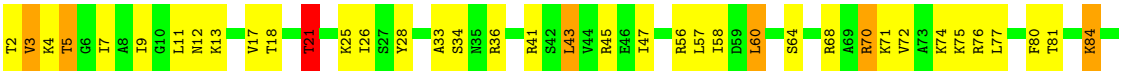
Chain o5:

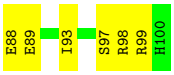




• Molecule 72: 60S ribosomal protein L36-A

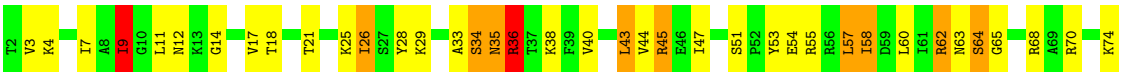
Chain O6:

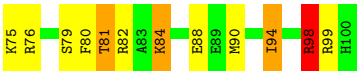




• Molecule 72: 60S ribosomal protein L36-A

Chain o6:





• Molecule 73: 60S ribosomal protein L37-A

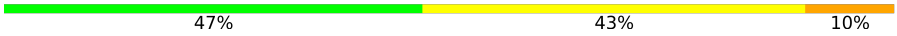
Chain O7:

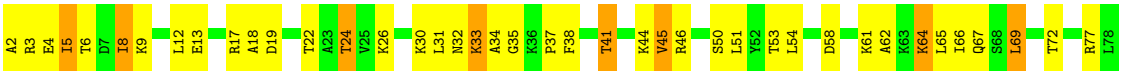
• Molecule 73: 60S ribosomal protein L37-A

Chain o7:

• Molecule 74: 60S ribosomal protein L38

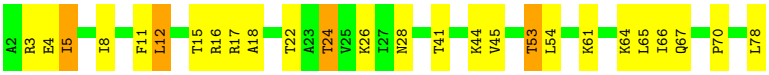
Chain O8:





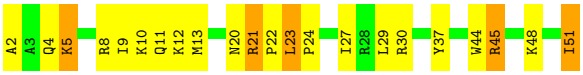
• Molecule 74: 60S ribosomal protein L38

Chain o8:



• Molecule 75: 60S ribosomal protein L39

Chain O9:

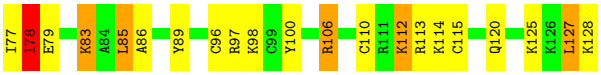


• Molecule 75: 60S ribosomal protein L39

Chain o9:

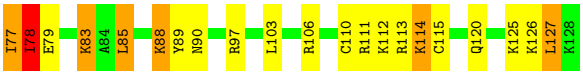
• Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain Q0:



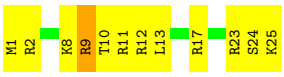
• Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain q0:



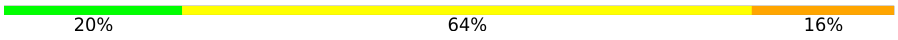
• Molecule 77: 60S ribosomal protein L41-A

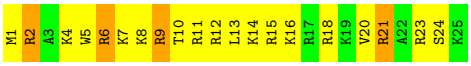
Chain Q1:



• Molecule 77: 60S ribosomal protein L41-A

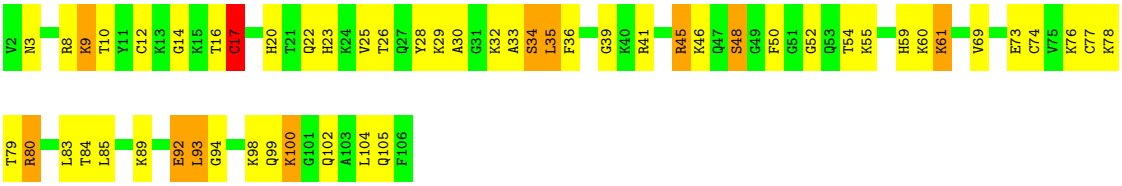
Chain q1:





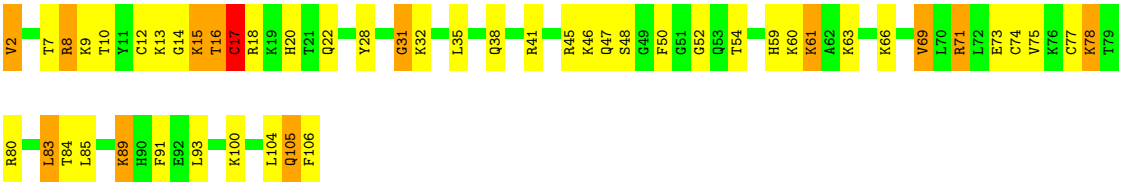
• Molecule 78: 60S ribosomal protein L42-A

Chain Q2:



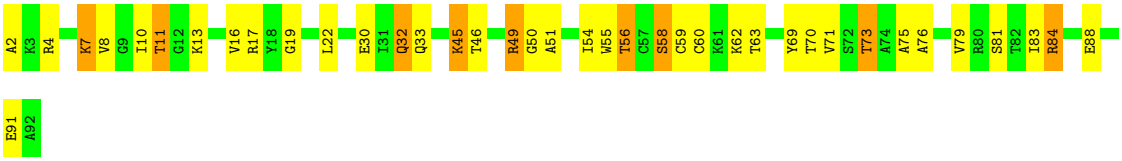
• Molecule 78: 60S ribosomal protein L42-A

Chain q2:



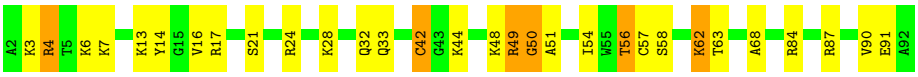
• Molecule 79: 60S ribosomal protein L43-A

Chain Q3:



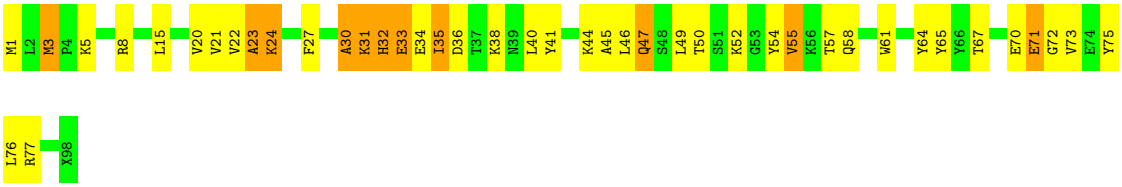
• Molecule 79: 60S ribosomal protein L43-A

Chain q3:



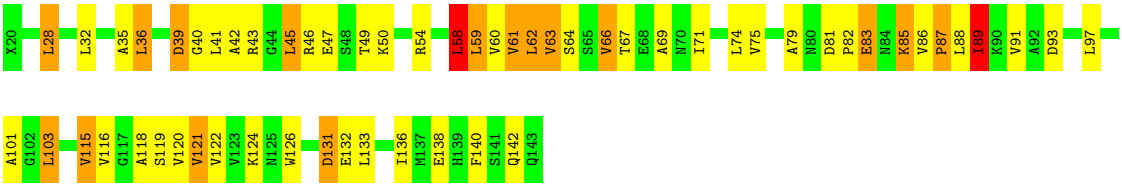
• Molecule 80: 40S ribosomal protein S10-A,40S ribosomal protein S10-A,40S Ribosomal Protein S10

Chain c0:



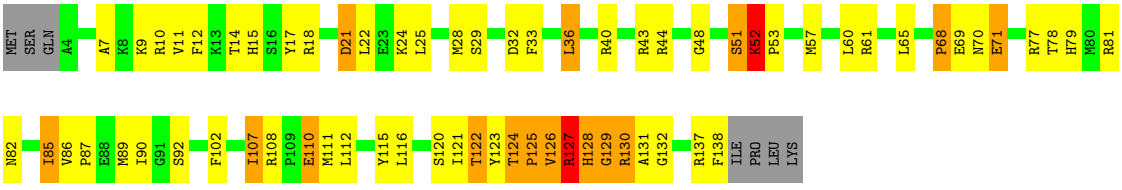
• Molecule 81: 40S Ribosomal Protein S12

Chain c2:



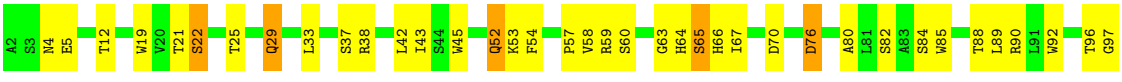
• Molecule 82: 40S ribosomal protein S15

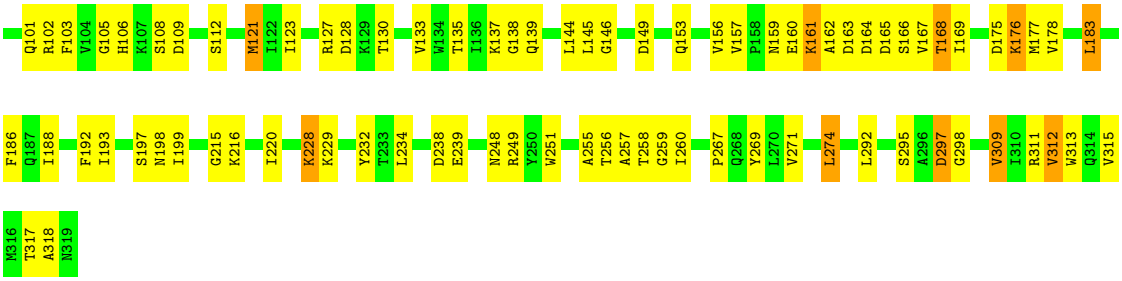
Chain c5:



• Molecule 83: Guanine nucleotide-binding protein subunit beta-like protein

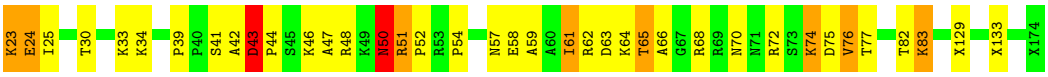
Chain sR:





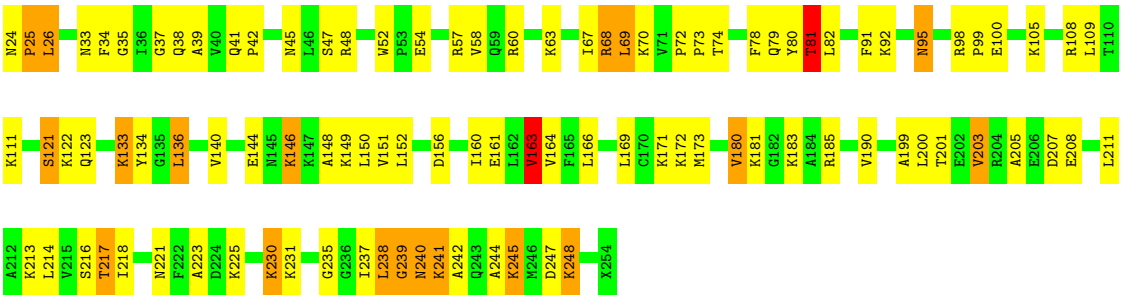
• Molecule 84: Suppressor protein STM1,Suppressor protein STM1,Ribosome-bound protein Stm1

Chain sM:



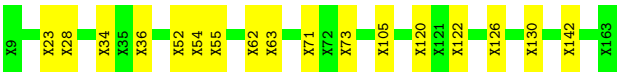
• Molecule 85: 60S ribosomal protein L8-A,60S ribosomal protein L8-A,60S Ribosomal Protein L8

Chain l8:



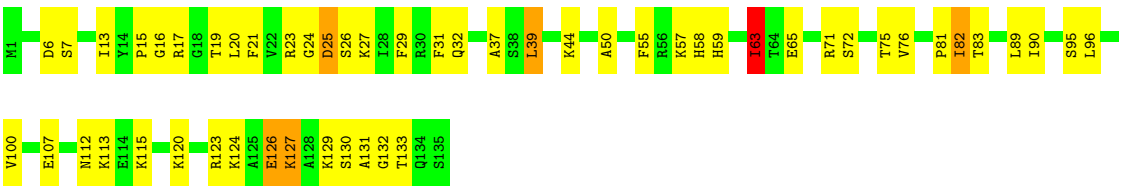
• Molecule 86: 60S Ribosomal Protein L12

Chain m2:



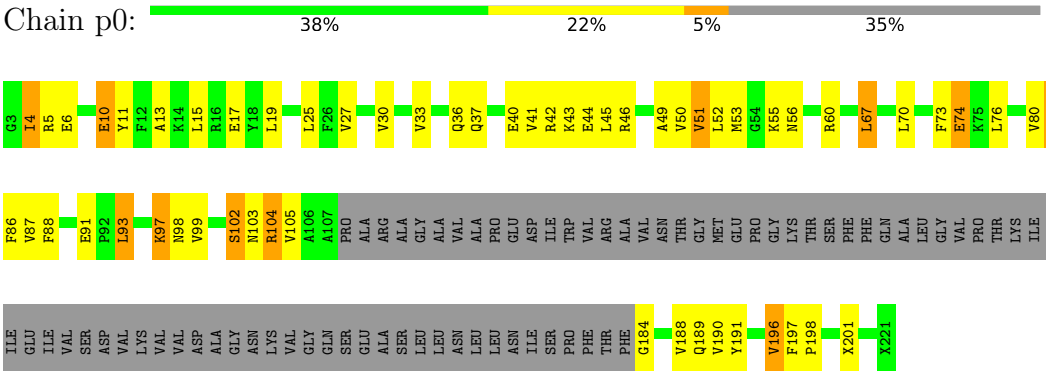
• Molecule 87: 60S ribosomal protein L24-A

Chain n4:



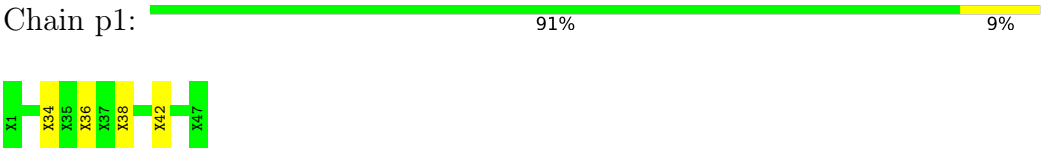
• Molecule 88: 60S acidic ribosomal protein P0,60S acidic ribosomal protein P0,60S Ribosomal Protein P0

Chain p0:



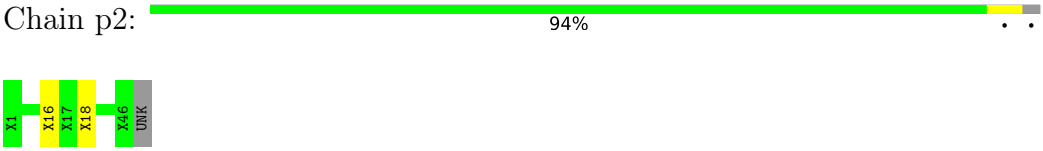
• Molecule 89: 60S Ribosomal Protein P1/2

Chain p1:



• Molecule 89: 60S Ribosomal Protein P1/2

Chain p2:



• Molecule 90: aminoacyl-tRNA fragment ACCPmn

Chain A:

• Molecule 90: aminoacyl-tRNA fragment ACCPmn

Chain a:

4 Data and refinement statistics (i)

EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	436.18Å 288.24Å 303.58Å 90.00° 98.87° 90.00°	Depositor
Resolution (Å)	172.59 – 3.25	Depositor
% Data completeness (in resolution range)	99.9 (172.59-3.25)	Depositor
R_{merge}	0.42	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.39 (at 3.26Å)	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
R, R_{free}	0.208 , 0.249	Depositor
Wilson B-factor (Å^2)	90.1	Xtriage
Anisotropy	0.116	Xtriage
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	414290	wwPDB-VP
Average B, all atoms (Å^2)	86.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.59% 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: ZN, MG, PPU, OHX

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	2	0.32	0/42468	0.53	1/66173 (0.0%)
1	6	0.36	0/42790	0.55	1/66673 (0.0%)
2	S0	0.35	1/1617 (0.1%)	0.56	0/2215
2	s0	0.35	0/1623	0.62	0/2222
3	S1	0.26	0/1735	0.59	0/2335
3	s1	0.32	0/1748	0.57	0/2352
4	S2	0.32	0/1665	0.55	0/2263
4	s2	0.40	0/1665	0.63	0/2263
5	S3	0.30	0/1759	0.54	0/2368
5	s3	0.30	0/1759	0.54	0/2368
6	S4	0.32	0/2109	0.64	0/2839
6	s4	0.37	1/2109 (0.0%)	0.64	1/2839 (0.0%)
7	S5	0.28	0/1629	0.56	0/2202
7	s5	0.29	0/1629	0.57	0/2202
8	S6	0.31	0/1823	0.55	0/2439
8	s6	0.35	0/1779	0.63	0/2379
9	S7	0.31	0/1506	0.63	0/2028
9	s7	0.32	0/1516	0.62	0/2043
10	S8	0.36	0/1514	0.59	0/2021
10	s8	0.39	0/1514	0.65	0/2021
11	S9	0.31	0/1519	0.58	0/2035
11	s9	0.37	0/1519	0.61	0/2035
12	C0	0.25	0/725	0.56	0/978
13	C1	0.34	0/1195	0.59	0/1612
13	c1	0.40	0/1194	0.64	0/1610
14	C2	0.30	0/898	0.66	0/1220
15	C3	0.32	0/1215	0.60	3/1638 (0.2%)
15	c3	0.34	0/1215	0.63	0/1638
16	C4	0.32	1/901 (0.1%)	0.59	0/1217
16	c4	0.34	0/960	0.62	0/1290
17	C5	0.34	0/998	0.61	0/1341
18	C6	0.32	0/1125	0.67	3/1510 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
18	c6	0.30	0/1131	0.61	1/1518 (0.1%)
19	C7	0.35	0/935	0.67	2/1254 (0.2%)
19	c7	0.29	0/914	0.64	0/1224
20	C8	0.31	0/1211	0.64	1/1628 (0.1%)
20	c8	0.32	0/1211	0.59	0/1628
21	C9	0.31	0/1130	0.59	0/1517
21	c9	0.30	0/1130	0.54	0/1517
22	D0	0.34	0/865	0.55	0/1169
22	d0	0.32	0/892	0.62	0/1205
23	D1	0.29	0/693	0.57	0/935
23	d1	0.37	0/693	0.56	0/935
24	D2	0.33	0/1038	0.60	0/1395
24	d2	0.39	0/1038	0.63	0/1395
25	D3	0.38	0/1139	0.65	0/1518
25	d3	0.44	0/1139	0.68	0/1518
26	D4	0.31	0/1087	0.56	0/1449
26	d4	0.37	0/1087	0.66	0/1449
27	D5	0.27	0/571	0.71	0/768
27	d5	0.28	0/566	0.53	0/761
28	D6	0.32	0/782	0.72	1/1047 (0.1%)
28	d6	0.38	0/782	0.64	0/1047
29	D7	0.28	0/620	0.54	0/838
29	d7	0.30	0/620	0.58	0/838
30	D8	0.26	0/499	0.56	0/670
30	d8	0.29	0/499	0.59	0/670
31	D9	0.34	0/452	0.60	0/600
31	d9	0.35	0/452	0.62	0/600
32	E0	0.31	0/483	0.56	0/643
32	e0	0.35	0/499	0.71	0/665
33	E1	0.32	0/577	0.81	0/770
33	e1	0.35	0/619	0.84	2/822 (0.2%)
34	SR	0.25	0/2490	0.48	0/3389
35	SM	0.37	0/984	0.66	0/1323
36	1	0.44	0/75394	0.62	8/117545 (0.0%)
36	5	0.46	1/75414 (0.0%)	0.63	7/117575 (0.0%)
37	3	0.39	0/2883	0.56	0/4491
37	7	0.45	0/2883	0.63	0/4491
38	4	0.44	0/3746	0.60	0/5832
38	8	0.42	0/3746	0.58	0/5832
39	L2	0.46	1/1948 (0.1%)	0.68	0/2617
39	l2	0.47	0/1946	0.76	2/2614 (0.1%)
40	L3	0.45	0/3146	0.69	0/4228
40	l3	0.50	0/3146	0.71	0/4228

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
41	L4	0.49	0/2800	0.74	0/3790
41	l4	0.45	0/2800	0.71	0/3790
42	L5	0.35	0/2425	0.61	0/3271
42	l5	0.48	1/2408 (0.0%)	0.65	0/3248
43	L6	0.44	0/1260	0.67	0/1694
43	l6	0.45	0/1269	0.71	0/1705
44	L7	0.49	0/1821	0.71	0/2451
44	l7	0.51	0/1828	0.68	1/2461 (0.0%)
45	L8	0.35	0/1836	0.58	0/2481
46	L9	0.41	0/1539	0.65	0/2073
46	l9	0.48	0/1539	0.70	0/2073
47	M0	0.50	0/1741	0.67	0/2335
47	m0	0.53	0/1758	0.72	0/2358
48	M1	0.34	0/1374	0.62	1/1842 (0.1%)
48	m1	0.47	0/1374	0.68	0/1842
49	M3	0.50	0/1568	0.71	0/2106
49	m3	0.44	0/1573	0.71	0/2113
50	M4	0.45	0/1068	0.68	0/1438
50	m4	0.49	0/1074	0.64	0/1446
51	M5	0.47	0/1757	0.71	0/2354
51	m5	0.41	0/1757	0.65	0/2354
52	M6	0.51	0/1585	0.68	0/2128
52	m6	0.57	0/1585	0.72	0/2128
53	M7	0.48	0/1443	0.69	0/1944
53	m7	0.55	0/1250	0.74	0/1683
54	M8	0.47	0/1465	0.70	0/1965
54	m8	0.46	0/1465	0.74	1/1965 (0.1%)
55	M9	0.36	0/1538	0.57	0/2050
55	m9	0.37	0/1538	0.55	0/2050
56	N0	0.45	0/1481	0.65	0/1990
56	n0	0.49	0/1481	0.69	0/1990
57	N1	0.43	0/1300	0.66	0/1743
57	n1	0.49	0/1300	0.68	0/1743
58	N2	0.28	0/812	0.51	0/1099
58	n2	0.30	0/794	0.54	0/1076
59	N3	0.48	0/1018	0.72	0/1369
59	n3	0.54	0/1018	0.75	0/1369
60	N4	0.44	0/712	0.64	0/958
61	N5	0.40	0/979	0.62	0/1321
61	n5	0.38	0/974	0.62	0/1314
62	N6	0.44	0/1004	0.73	0/1341
62	n6	0.43	0/1004	0.69	0/1341
63	N7	0.34	0/1118	0.58	0/1497

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
63	n7	0.39	1/1118 (0.1%)	0.58	0/1497
64	N8	0.45	0/1204	0.74	3/1612 (0.2%)
64	n8	0.49	1/1204 (0.1%)	0.69	0/1612
65	N9	0.47	0/473	0.68	0/629
65	n9	0.51	0/473	0.89	0/629
66	O0	0.31	0/751	0.50	0/1008
66	o0	0.34	0/775	0.53	0/1040
67	O1	0.40	0/890	0.59	0/1196
67	o1	0.49	0/897	0.66	0/1205
68	O2	0.51	0/1041	0.73	0/1394
68	o2	0.51	0/1041	0.72	0/1394
69	O3	0.57	0/868	0.70	0/1168
69	o3	0.55	0/868	0.68	0/1168
70	O4	0.42	0/890	0.62	0/1189
70	o4	0.39	0/890	0.62	0/1189
71	O5	0.43	0/978	0.65	0/1301
71	o5	0.36	0/974	0.58	0/1297
72	O6	0.39	0/778	0.65	0/1034
72	o6	0.34	0/777	0.61	0/1033
73	O7	0.46	0/696	0.70	0/923
73	o7	0.46	0/696	0.69	0/923
74	O8	0.30	0/618	0.50	0/826
74	o8	0.32	0/614	0.48	0/822
75	O9	0.50	0/443	0.72	0/588
75	o9	0.49	0/443	0.71	0/588
76	Q0	0.46	0/423	0.67	0/562
76	q0	0.58	0/423	0.74	0/562
77	Q1	0.44	0/234	0.63	0/300
77	q1	0.59	0/234	0.71	0/300
78	Q2	0.54	1/860 (0.1%)	0.68	0/1136
78	q2	0.53	1/860 (0.1%)	0.73	1/1136 (0.1%)
79	Q3	0.44	0/701	0.70	0/934
79	q3	0.47	0/701	0.68	0/934
80	c0	0.25	0/693	0.55	0/933
81	c2	0.24	0/824	0.57	0/1116
82	c5	0.37	0/1060	0.66	0/1426
83	sR	0.24	0/2495	0.46	0/3395
84	sM	0.39	0/481	0.60	0/644
85	l8	0.35	0/1765	0.58	0/2387
87	n4	0.46	0/1052	0.66	0/1398
88	p0	0.28	0/977	0.55	0/1313
90	A	0.38	0/43	0.57	0/64
90	a	0.44	0/43	0.75	0/64

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
All	All	0.41	10/430203 (0.0%)	0.61	40/631685 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	S1	0	1
6	S4	0	1
7	s5	0	2
9	S7	0	1
10	s8	0	1
11	s9	0	1
13	c1	0	1
18	c6	0	1
19	C7	0	2
22	d0	0	1
24	D2	0	1
25	D3	0	1
25	d3	0	1
27	D5	0	2
27	d5	0	1
28	D6	0	2
33	E1	0	1
33	e1	0	1
39	L2	0	1
39	l2	0	3
40	L3	0	1
40	l3	0	1
42	l5	0	2
43	L6	0	2
44	l7	0	2
45	L8	0	1
49	M3	0	1
50	m4	0	1
52	M6	0	1
52	m6	0	1
53	M7	0	1
53	m7	0	1
56	N0	0	2
56	n0	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
57	N1	0	1
61	N5	0	1
63	n7	0	1
64	n8	0	1
65	N9	0	2
65	n9	0	2
68	o2	0	1
70	O4	0	1
82	c5	0	1
87	n4	0	1
All	All	0	56

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	n7	36	HIS	C-N	7.63	1.51	1.33
78	Q2	17	CYS	CB-SG	7.60	2.06	1.81
2	S0	95	ALA	C-N	7.48	1.49	1.33
42	l5	179	ARG	C-N	-7.30	1.18	1.33
78	q2	17	CYS	CB-SG	6.47	2.02	1.81
36	5	430	U	P-OP2	6.10	1.61	1.49
64	n8	98	THR	C-N	6.00	1.46	1.33
39	L2	118	GLU	C-N	-5.91	1.21	1.33
6	s4	82	TYR	C-N	-5.89	1.20	1.33
16	C4	92	LYS	C-N	5.40	1.44	1.33

All (40) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	1	637	C	C4'-C3'-O3'	7.56	120.74	109.40
36	5	1307	G	C2'-C3'-O3'	7.45	120.67	109.50
19	C7	84	TYR	CA-C-N	7.03	135.13	122.13
19	C7	84	TYR	C-N-CA	7.03	135.13	122.13
39	l2	14	SER	CB-CA-C	-6.84	107.93	117.23
18	C6	40	GLU	C-N-CD	-6.54	106.20	120.60
6	s4	105	VAL	N-CA-C	-6.53	104.98	111.77
36	1	282	G	C2'-C3'-O3'	6.41	123.31	113.70
36	5	1607	U	C4'-C3'-O3'	6.34	118.91	109.40
36	1	65	A	P-O3'-C3'	6.33	129.70	120.20
15	C3	22	ALA	CA-C-N	6.25	142.01	127.00
15	C3	22	ALA	C-N-CA	6.25	142.01	127.00
18	C6	40	GLU	CA-C-N	6.19	141.86	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	C6	40	GLU	C-N-CA	6.19	141.86	127.00
36	1	637	C	P-O3'-C3'	6.18	129.47	120.20
20	C8	102	ALA	CB-CA-C	-6.15	109.49	116.63
36	5	1307	G	P-O3'-C3'	5.93	129.09	120.20
36	5	1607	U	P-O3'-C3'	5.90	129.05	120.20
15	C3	22	ALA	C-N-CD	-5.85	107.73	120.60
36	1	65	A	C4'-C3'-O3'	5.81	118.12	109.40
36	5	282	G	C2'-C3'-O3'	5.81	122.42	113.70
36	1	1329	U	C4'-C3'-O3'	5.67	117.90	109.40
44	l7	229	PHE	CA-CB-CG	5.64	119.44	113.80
36	1	3319	U	P-O3'-C3'	5.58	128.57	120.20
28	D6	84	VAL	CB-CA-C	-5.51	102.25	111.29
54	m8	99	THR	N-CA-C	5.45	122.42	110.80
48	M1	173	ASP	CB-CA-C	-5.36	109.41	115.79
78	q2	17	CYS	CA-CB-SG	5.33	126.65	114.40
33	e1	86	THR	CA-C-N	5.28	134.68	121.80
33	e1	86	THR	C-N-CA	5.28	134.68	121.80
1	2	1761	U	C2'-C3'-O3'	5.27	117.40	109.50
64	N8	115	LYS	CA-C-N	-5.20	111.23	121.41
64	N8	115	LYS	C-N-CA	-5.20	111.23	121.41
39	l2	251	LYS	N-CA-C	5.17	113.71	108.75
36	5	2971	A	C4'-C3'-O3'	5.14	120.71	113.00
64	N8	57	GLY	N-CA-C	5.13	125.33	113.18
36	1	2513	U	C4'-C3'-O3'	5.12	117.08	109.40
36	5	2524	A	N9-C1'-C2'	5.09	121.64	114.00
18	c6	97	VAL	CB-CA-C	5.08	119.62	111.29
1	6	158	U	P-O3'-C3'	5.06	127.79	120.20

There are no chirality outliers.

All (56) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
19	C7	22	PRO	Peptide
19	C7	85	VAL	Peptide
24	D2	54	ASP	Peptide
25	D3	44	GLY	Peptide
27	D5	54	VAL	Peptide
27	D5	94	LYS	Peptide
28	D6	84	VAL	Peptide
28	D6	85	ARG	Peptide
33	E1	105	TYR	Peptide
39	L2	19	HIS	Peptide

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Mol	Chain	Res	Type	Group
40	L3	172	ALA	Peptide
43	L6	129	GLU	Peptide
43	L6	89	THR	Peptide
45	L8	74	THR	Peptide
49	M3	137	GLN	Peptide
52	M6	110	PRO	Peptide
53	M7	120	ASN	Peptide
56	N0	133	ALA	Peptide
56	N0	22	PRO	Peptide
57	N1	16	GLN	Peptide
61	N5	137	ASN	Peptide
65	N9	19	ASN	Peptide
65	N9	20	GLY	Peptide
70	O4	71	THR	Peptide
3	S1	131	ASP	Peptide
6	S4	193	GLY	Peptide
9	S7	131	PHE	Peptide
13	c1	119	VAL	Peptide
82	c5	52	LYS	Peptide
18	c6	40	GLU	Peptide
22	d0	70	THR	Peptide
25	d3	44	GLY	Peptide
27	d5	85	LYS	Peptide
33	e1	106	TYR	Peptide
39	l2	143	GLU	Peptide
39	l2	171	GLY	Peptide
39	l2	211	HIS	Peptide
40	l3	185	GLY	Peptide
42	l5	270	LYS	Peptide
42	l5	271	LYS	Peptide
44	l7	192	GLY	Peptide
44	l7	226	GLY	Peptide
50	m4	20	VAL	Peptide
52	m6	110	PRO	Peptide
53	m7	119	VAL	Peptide
56	n0	133	ALA	Peptide
87	n4	75	THR	Peptide
63	n7	5	LEU	Peptide
64	n8	66	ALA	Peptide
65	n9	19	ASN	Peptide
65	n9	24	PRO	Peptide
68	o2	39	ASP	Peptide

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Mol	Chain	Res	Type	Group
7	s5	44	ASN	Peptide
7	s5	99	MET	Peptide
10	s8	60	ILE	Peptide
11	s9	100	LYS	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	2	37970	0	19102	860	1
1	6	38260	0	19246	852	0
2	S0	1577	0	1567	77	0
2	s0	1583	0	1578	78	0
3	S1	1709	0	1784	110	0
3	s1	1722	0	1793	73	0
4	S2	1635	0	1723	67	0
4	s2	1635	0	1723	63	0
5	S3	1734	0	1817	67	0
5	s3	1734	0	1817	56	0
6	S4	2068	0	2154	75	0
6	s4	2068	0	2154	87	0
7	S5	1609	0	1675	60	0
7	s5	1609	0	1675	69	0
8	S6	1799	0	1879	71	0
8	s6	1755	0	1845	61	0
9	S7	1481	0	1572	72	0
9	s7	1491	0	1578	49	0
10	S8	1489	0	1525	55	0
10	s8	1489	0	1525	57	0
11	S9	1494	0	1573	70	0
11	s9	1494	0	1573	94	0
12	C0	773	0	715	38	0
13	C1	1214	0	1244	45	0
13	c1	1168	0	1230	39	0
14	C2	890	0	887	39	0
15	C3	1192	0	1255	39	0
15	c3	1192	0	1255	44	0
16	C4	891	0	883	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	c4	949	0	985	44	0
17	C5	977	0	1002	46	0
18	C6	1105	0	1166	60	0
18	c6	1111	0	1171	50	0
19	C7	926	0	930	47	0
19	c7	906	0	909	31	0
20	C8	1192	0	1222	63	0
20	c8	1192	0	1222	49	0
21	C9	1112	0	1124	49	0
21	c9	1112	0	1124	39	0
22	D0	855	0	917	42	0
22	d0	882	0	939	39	0
23	D1	684	0	672	30	0
23	d1	684	0	672	32	0
24	D2	1021	0	1060	42	0
24	d2	1021	0	1060	45	0
25	D3	1121	0	1196	43	0
25	d3	1121	0	1196	30	0
26	D4	1073	0	1132	34	0
26	d4	1073	0	1132	49	0
27	D5	563	0	603	27	0
27	d5	558	0	598	25	0
28	D6	769	0	814	53	0
28	d6	769	0	814	28	0
29	D7	610	0	630	23	0
29	d7	610	0	632	23	0
30	D8	497	0	535	22	0
30	d8	497	0	535	21	0
31	D9	442	0	427	16	0
31	d9	442	0	428	7	0
32	E0	475	0	525	14	0
32	e0	491	0	542	20	0
33	E1	566	0	602	27	0
33	e1	608	0	657	33	0
34	SR	2437	0	2389	74	0
35	SM	1104	0	978	40	0
36	1	67355	0	33840	1311	0
36	5	67376	0	33851	1333	1
37	3	2579	0	1304	56	0
37	7	2579	0	1304	56	0
38	4	3353	0	1695	69	0
38	8	3353	0	1695	78	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	L2	1914	0	1981	61	0
39	l2	1912	0	1976	78	0
40	L3	3075	0	3142	145	0
40	l3	3075	0	3142	143	0
41	L4	2748	0	2859	138	0
41	l4	2748	0	2859	113	0
42	L5	2375	0	2325	103	0
42	l5	2359	0	2310	112	0
43	L6	1239	0	1326	38	0
43	l6	1248	0	1339	39	0
44	L7	1784	0	1862	71	0
44	l7	1791	0	1869	66	0
45	L8	1804	0	1877	58	0
46	L9	1518	0	1587	72	0
46	l9	1518	0	1587	79	0
47	M0	1705	0	1736	76	0
47	m0	1722	0	1755	89	0
48	M1	1353	0	1383	49	0
48	m1	1353	0	1383	53	1
49	M3	1543	0	1608	63	0
49	m3	1548	0	1613	60	0
50	M4	1053	0	1149	42	0
50	m4	1059	0	1154	39	0
51	M5	1720	0	1779	64	0
51	m5	1720	0	1779	66	0
52	M6	1555	0	1659	49	0
52	m6	1555	0	1659	50	0
53	M7	1420	0	1437	53	0
53	m7	1227	0	1236	49	0
54	M8	1441	0	1543	59	0
54	m8	1441	0	1543	58	0
55	M9	1521	0	1617	64	0
55	m9	1521	0	1617	38	0
56	N0	1445	0	1487	59	0
56	n0	1445	0	1487	36	0
57	N1	1276	0	1323	51	0
57	n1	1276	0	1323	50	0
58	N2	796	0	812	22	0
58	n2	778	0	791	22	0
59	N3	1003	0	1048	37	0
59	n3	1003	0	1048	36	0
60	N4	699	0	640	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	N5	964	0	1025	35	0
61	n5	959	0	1023	38	0
62	N6	993	0	1080	34	0
62	n6	993	0	1081	54	0
63	N7	1092	0	1155	49	0
63	n7	1092	0	1155	48	0
64	N8	1173	0	1215	60	0
64	n8	1173	0	1215	58	0
65	N9	462	0	491	18	0
65	n9	462	0	491	23	0
66	O0	743	0	797	25	0
66	o0	767	0	816	32	0
67	O1	876	0	912	21	0
67	o1	883	0	918	26	0
68	O2	1020	0	1090	31	0
68	o2	1020	0	1090	42	0
69	O3	850	0	880	36	0
69	o3	850	0	880	32	0
70	O4	880	0	945	39	0
70	o4	880	0	945	29	0
71	O5	969	0	1078	52	0
71	o5	965	0	1067	45	0
72	O6	771	0	849	23	0
72	o6	770	0	846	34	0
73	O7	681	0	682	27	0
73	o7	681	0	683	25	0
74	O8	612	0	682	18	0
74	o8	608	0	671	13	0
75	O9	436	0	475	27	0
75	o9	436	0	475	19	0
76	Q0	417	0	455	13	0
76	q0	417	0	455	15	0
77	Q1	233	0	284	6	0
77	q1	233	0	284	12	0
78	Q2	847	0	915	35	0
78	q2	847	0	915	40	0
79	Q3	694	0	734	33	0
79	q3	694	0	734	21	0
80	c0	762	0	689	26	0
81	c2	892	0	872	32	0
82	c5	1039	0	1050	56	0
83	sR	2442	0	2392	74	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
84	sM	681	0	544	30	0
85	l8	1763	0	1811	63	0
86	m2	750	0	177	9	0
87	n4	1038	0	1071	26	0
88	p0	1077	0	1012	32	0
89	p1	235	0	51	3	0
89	p2	230	0	50	1	0
90	A	77	0	50	7	0
90	a	77	0	50	9	0
91	1	700	0	0	0	0
91	2	169	0	0	0	0
91	3	18	0	0	0	0
91	4	32	0	0	0	0
91	5	758	0	0	0	0
91	6	242	0	0	0	0
91	7	27	0	0	0	0
91	8	21	0	0	0	0
91	C1	2	0	0	0	0
91	C5	1	0	0	0	0
91	C8	1	0	0	0	0
91	D0	1	0	0	0	0
91	D3	1	0	0	0	0
91	D6	1	0	0	0	0
91	D9	2	0	0	0	0
91	E1	1	0	0	0	0
91	L2	4	0	0	0	0
91	L3	6	0	0	0	0
91	L4	7	0	0	0	0
91	L6	1	0	0	0	0
91	L7	1	0	0	0	0
91	L8	1	0	0	0	0
91	M0	4	0	0	0	0
91	M1	1	0	0	0	0
91	M3	4	0	0	0	0
91	M4	1	0	0	0	0
91	M5	8	0	0	0	0
91	M6	4	0	0	0	0
91	M7	8	0	0	0	0
91	M8	3	0	0	1	0
91	M9	3	0	0	0	0
91	N0	2	0	0	0	0
91	N1	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
91	N3	4	0	0	0	0
91	N6	1	0	0	0	0
91	N8	7	0	0	0	0
91	N9	1	0	0	0	0
91	O1	1	0	0	0	0
91	O2	2	0	0	0	0
91	O3	3	0	0	0	0
91	O4	1	0	0	0	0
91	O7	5	0	0	0	0
91	O9	1	0	0	0	0
91	Q0	2	0	0	0	0
91	Q2	3	0	0	0	0
91	S1	1	0	0	0	0
91	S2	2	0	0	0	0
91	S4	1	0	0	0	0
91	S6	1	0	0	0	0
91	S8	2	0	0	0	0
91	c6	3	0	0	0	0
91	c8	3	0	0	0	0
91	c9	1	0	0	0	0
91	d2	1	0	0	0	0
91	d3	1	0	0	0	0
91	d5	1	0	0	0	0
91	d6	1	0	0	0	0
91	d9	2	0	0	0	0
91	l2	5	0	0	0	0
91	l3	11	0	0	0	0
91	l4	3	0	0	0	0
91	l5	7	0	0	0	0
91	l7	4	0	0	0	0
91	l8	1	0	0	0	0
91	l9	3	0	0	0	0
91	m0	1	0	0	0	0
91	m1	2	0	0	0	0
91	m3	2	0	0	0	0
91	m4	1	0	0	0	0
91	m5	2	0	0	0	0
91	m6	6	0	0	0	0
91	m7	7	0	0	0	0
91	m8	2	0	0	0	0
91	m9	1	0	0	0	0
91	n0	5	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
91	n1	3	0	0	0	0
91	n3	3	0	0	0	0
91	n6	1	0	0	0	0
91	n8	4	0	0	0	0
91	n9	2	0	0	0	0
91	o2	3	0	0	0	0
91	o3	5	0	0	0	0
91	o4	3	0	0	0	0
91	o6	1	0	0	0	0
91	o7	3	0	0	0	0
91	o9	1	0	0	0	0
91	p0	1	0	0	0	0
91	q0	1	0	0	0	0
91	q1	1	0	0	0	0
91	q2	1	0	0	0	0
91	q3	2	0	0	0	0
91	s1	1	0	0	0	0
91	s4	1	0	0	0	0
91	s8	4	0	0	0	0
91	sM	1	0	0	0	0
92	1	2856	0	0	265	0
92	2	1316	0	0	118	0
92	3	91	0	0	5	0
92	4	112	0	0	9	0
92	5	2905	0	0	227	0
92	6	1393	0	0	119	0
92	7	91	0	0	4	0
92	8	140	0	0	14	0
92	A	14	0	0	2	0
92	C3	7	0	0	1	0
92	C5	7	0	0	5	0
92	C8	14	0	0	2	0
92	D9	7	0	0	0	0
92	L2	7	0	0	1	0
92	L3	21	0	0	2	0
92	L4	7	0	0	2	0
92	L5	7	0	0	1	0
92	M0	28	0	0	11	0
92	M5	14	0	0	1	0
92	M7	7	0	0	1	0
92	M9	7	0	0	1	0
92	N1	7	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
92	N8	7	0	0	0	0
92	N9	7	0	0	1	0
92	O1	7	0	0	1	0
92	O3	7	0	0	0	0
92	O7	21	0	0	8	0
92	Q2	7	0	0	4	0
92	S2	7	0	0	3	0
92	S6	7	0	0	0	0
92	S8	7	0	0	1	0
92	SR	7	0	0	0	0
92	a	7	0	0	1	0
92	c1	7	0	0	1	0
92	c3	7	0	0	3	0
92	c5	14	0	0	10	0
92	c8	7	0	0	0	0
92	d4	7	0	0	1	0
92	d9	7	0	0	0	0
92	l2	7	0	0	0	0
92	l3	14	0	0	2	0
92	l4	14	0	0	3	0
92	l5	21	0	0	3	0
92	l9	7	0	0	0	1
92	m0	28	0	0	5	0
92	m1	7	0	0	1	0
92	m4	7	0	0	0	0
92	m5	14	0	0	3	0
92	m7	7	0	0	1	0
92	m9	7	0	0	1	0
92	n1	7	0	0	0	0
92	n3	7	0	0	1	0
92	n9	7	0	0	0	0
92	o2	7	0	0	0	0
92	o3	7	0	0	0	0
92	o7	7	0	0	0	0
92	o9	7	0	0	0	0
92	q2	7	0	0	3	0
92	s1	7	0	0	0	0
92	s4	7	0	0	0	0
92	s8	7	0	0	0	0
92	sR	7	0	0	0	0
93	D6	1	0	0	0	0
93	D7	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
93	D9	1	0	0	0	0
93	E1	1	0	0	0	0
93	O7	1	0	0	0	0
93	Q0	1	0	0	0	0
93	Q2	1	0	0	0	0
93	Q3	1	0	0	0	0
93	d6	1	0	0	0	0
93	d7	1	0	0	0	0
93	d9	1	0	0	0	0
93	e1	1	0	0	0	0
93	o7	1	0	0	0	0
93	q0	1	0	0	0	0
93	q2	1	0	0	0	0
93	q3	1	0	0	0	0
All	All	414290	0	297533	10173	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 15.

All (10173) 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)
78:q2:17:CYS:SG	78:q2:17:CYS:CB	2.02	1.47
78:Q2:17:CYS:SG	78:Q2:17:CYS:CB	2.06	1.42
78:q2:17:CYS:SG	78:q2:77:CYS:SG	2.48	1.12
73:O7:87:SER:O	92:O7:107:OHX:N3	1.90	1.04
36:5:556:U:OP2	92:5:4474:OHX:N5	1.90	1.03
47:m0:76:MET:HE1	47:m0:148:VAL:HA	1.35	1.02
36:1:409:A:OP2	92:1:4290:OHX:N6	1.93	1.01
36:1:1639:C:OP2	70:O4:74:ARG:NH2	1.93	1.01
36:1:2533:G:N7	92:1:4440:OHX:N1	2.09	1.01
1:6:1636:C:H4'	1:6:1637:C:H5'	1.40	1.00
1:2:651:G:N7	92:2:2152:OHX:N6	2.10	1.00
1:2:1366:U:O4	92:2:2158:OHX:N6	1.94	0.99
1:2:1446:A:OP1	92:2:2255:OHX:N2	1.96	0.99
7:s5:94:THR:HG22	7:s5:114:ILE:HG13	1.45	0.98
40:l3:296:THR:HG22	40:l3:298:PHE:H	1.24	0.98
1:2:623:A:OP1	92:2:2225:OHX:N1	1.97	0.98
65:n9:23:LYS:HB3	65:n9:24:PRO:HD3	1.42	0.97
92:1:4192:OHX:N6	44:L7:217:PRO:O	1.97	0.96
36:1:2310:U:OP1	92:1:4385:OHX:N2	1.98	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:145:ILE:O	92:l4:404:OHX:N4	1.98	0.96
41:L4:317:PRO:O	41:L4:319:LYS:N	1.98	0.96
36:5:3214:U:OP2	50:m4:128:ARG:NH2	1.99	0.95
36:1:371:G:O6	92:1:4445:OHX:N4	1.99	0.95
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.29	0.95
47:M0:221:ALA:O	92:M0:308:OHX:N2	2.00	0.95
36:5:3288:G:HO2'	36:5:3289:G:H8	1.07	0.95
18:c6:93:HIS:HA	18:c6:97:VAL:HG13	1.48	0.94
1:2:1154:G:N7	92:2:2186:OHX:N1	2.16	0.94
36:1:555:U:O2'	92:1:4376:OHX:N2	2.00	0.94
36:5:2854:U:OP2	47:m0:3:ARG:NH2	2.01	0.94
2:s0:66:ALA:HB2	23:d1:37:ALA:HB2	1.49	0.94
1:2:701:U:H3	1:2:737:A:H61	1.13	0.94
36:5:409:A:OP2	92:5:4358:OHX:N3	2.00	0.93
51:M5:110:ALA:HB1	51:M5:113:LEU:HD23	1.50	0.93
1:2:991:G:OP2	92:2:2183:OHX:N1	2.02	0.93
78:q2:74:CYS:SG	78:q2:77:CYS:SG	2.65	0.93
1:2:1585:U:H3	1:2:1611:A:H2	1.12	0.93
78:Q2:74:CYS:SG	78:Q2:77:CYS:SG	2.66	0.93
40:l3:41:VAL:HA	40:l3:185:GLY:HA3	1.49	0.93
36:1:1949:G:OP1	55:M9:104:ARG:NH1	2.01	0.93
36:1:226:C:OP1	92:1:4501:OHX:N1	2.03	0.92
1:6:1154:G:N7	92:6:2230:OHX:N2	2.17	0.92
36:5:25:U:O4	92:5:4165:OHX:N6	2.02	0.92
1:2:1339:C:O2'	1:2:1341:A:N7	2.02	0.92
1:6:1370:U:H4'	1:6:1371:A:H4'	1.52	0.92
44:L7:143:THR:HG22	44:L7:241:LYS:HE3	1.50	0.91
36:1:3275:U:H5'	69:O3:68:TRP:HZ2	1.36	0.91
1:2:320:U:H3'	1:2:321:C:H5"	1.52	0.91
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.03	0.91
36:1:1233:G:H1	36:1:1255:C:H42	1.15	0.90
37:7:76:A:O2'	56:n0:50:LYS:NZ	2.04	0.90
30:D8:10:ALA:HA	30:D8:32:PHE:HA	1.52	0.90
36:5:1081:U:OP1	92:5:4408:OHX:N3	2.05	0.90
82:c5:137:ARG:O	92:c5:202:OHX:N4	2.04	0.90
36:1:25:U:O4	92:1:4104:OHX:N3	2.05	0.90
36:1:2705:A:OP2	92:1:4103:OHX:N1	2.04	0.90
36:5:3231:U:O4	92:5:4558:OHX:N6	2.04	0.90
36:5:3274:A:H3'	36:5:3275:U:H5"	1.52	0.90
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.05	0.90
40:L3:76:VAL:HG12	40:L3:325:LYS:HA	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1529:C:OP1	7:S5:112:ARG:NH1	2.04	0.89
36:5:3194:C:O2	36:5:3197:G:N2	2.04	0.89
1:6:578:U:O2	92:6:2250:OHX:N5	2.06	0.89
36:5:2705:A:OP2	92:5:4156:OHX:N2	2.04	0.89
50:m4:55:ARG:NH2	50:m4:76:ALA:O	2.05	0.89
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.36	0.89
36:1:2273:G:O6	92:1:4385:OHX:N5	2.06	0.89
41:L4:122:THR:HG22	41:L4:235:LEU:HB2	1.54	0.89
36:5:535:G:O6	92:5:4341:OHX:N2	2.06	0.89
1:6:1041:G:OP1	92:6:2278:OHX:N4	2.05	0.89
36:5:1555:U:O4	36:5:1557:A:N6	2.06	0.88
36:5:3074:G:OP1	92:5:4374:OHX:N4	2.06	0.88
1:6:1588:G:H1	1:6:1608:U:H3	1.18	0.88
4:s2:56:ILE:HG23	4:s2:61:LEU:HB2	1.54	0.88
92:5:4260:OHX:N3	44:l7:217:PRO:O	2.05	0.88
1:6:448:C:OP2	6:s4:49:ARG:NH1	2.05	0.88
1:2:1559:A:H5"	20:C8:135:GLY:HA3	1.56	0.88
41:L4:145:ILE:O	92:L4:408:OHX:N5	2.07	0.88
41:l4:329:PRO:O	41:l4:331:ALA:N	2.06	0.88
1:2:1287:A:OP1	92:2:2111:OHX:N5	2.06	0.88
68:O2:19:ARG:HH11	68:O2:28:VAL:HG13	1.39	0.88
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.55	0.88
36:1:624:G:OP2	92:1:4378:OHX:N3	2.06	0.88
36:1:2836:C:H5	36:1:2852:C:H42	1.21	0.88
1:2:9:U:O4	92:2:2219:OHX:N6	2.06	0.87
54:m8:176:ARG:NH1	64:n8:46:ASP:OD2	2.06	0.87
9:S7:50:ASP:HB3	9:S7:56:LYS:HG2	1.54	0.87
78:Q2:17:CYS:SG	78:Q2:77:CYS:SG	2.72	0.87
1:6:1098:U:OP2	4:s2:168:ARG:NE	2.07	0.87
48:m1:94:ARG:O	48:m1:96:PHE:N	2.05	0.87
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.08	0.87
78:Q2:17:CYS:SG	78:Q2:77:CYS:HB3	2.15	0.87
36:5:115:A:OP1	51:m5:49:ARG:NH2	2.06	0.87
36:5:510:G:O6	92:5:4281:OHX:N2	2.06	0.87
36:1:1345:G:N7	92:1:4194:OHX:N4	2.23	0.87
1:6:1626:U:OP1	92:6:2311:OHX:N3	2.07	0.87
36:1:626:U:O4	92:1:4233:OHX:N5	2.08	0.86
10:s8:34:ALA:HB2	10:s8:56:ARG:HD3	1.57	0.86
1:6:1595:U:H3	1:6:1600:A:H2	1.24	0.86
36:5:2233:A:OP2	92:5:4218:OHX:N5	2.09	0.86
1:2:301:A:OP2	92:2:2110:OHX:N2	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:d3:79:ASN:HB3	25:d3:81:LYS:HG3	1.55	0.86
68:o2:19:ARG:HH11	68:o2:28:VAL:HG13	1.37	0.86
1:2:514:G:H1	1:2:543:C:H5	1.23	0.86
36:1:3377:G:O6	92:1:4270:OHX:N2	2.09	0.86
19:c7:47:ARG:NH1	19:c7:48:ASN:OD1	2.09	0.86
57:n1:51:GLY:HA3	57:n1:92:ARG:HG3	1.57	0.86
21:C9:52:GLY:O	21:C9:54:PHE:N	2.08	0.86
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.09	0.86
36:1:2875:U:O2	90:A:76:PPU:O2'	1.94	0.86
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.58	0.86
16:c4:50:ALA:O	16:c4:52:ARG:N	2.08	0.86
82:c5:138:PHE:O	92:c5:202:OHX:N6	2.08	0.86
1:2:142:G:H22	1:2:173:A:H2	1.21	0.86
1:6:1155:G:O2'	92:6:2297:OHX:N5	2.09	0.86
1:6:1282:U:OP1	92:6:2232:OHX:N4	2.09	0.86
46:L9:49:ASN:O	46:L9:51:GLN:N	2.09	0.85
11:s9:109:LEU:HB2	11:s9:146:PHE:HB3	1.55	0.85
25:D3:79:ASN:HB3	25:D3:81:LYS:HG3	1.58	0.85
36:5:31:C:OP2	51:m5:188:ARG:NH2	2.09	0.85
36:1:2177:G:OP2	39:L2:128:ARG:NH1	2.10	0.85
45:L8:75:ILE:O	45:L8:77:GLN:N	2.09	0.85
74:O8:46:ARG:HH21	74:O8:51:LEU:HB2	1.42	0.85
30:d8:13:ILE:HB	30:d8:29:ARG:HG2	1.58	0.85
41:l4:203:ARG:NH1	41:l4:226:GLU:OE2	2.09	0.85
46:l9:28:VAL:HG22	46:l9:33:THR:HB	1.58	0.85
36:1:600:G:N7	92:1:4331:OHX:N1	2.25	0.85
36:5:651:G:OP2	92:5:4437:OHX:N3	2.09	0.85
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.58	0.85
36:5:1952:G:H1	36:5:2094:C:H42	1.22	0.85
1:2:104:A:OP2	1:2:308:C:N4	2.10	0.85
37:3:75:G:OP1	92:3:219:OHX:N6	2.10	0.85
1:6:67:A:O2'	1:6:69:G:OP1	1.95	0.84
82:c5:68:PRO:O	92:c5:201:OHX:N5	2.09	0.84
36:1:3129:A:OP2	92:1:4491:OHX:N4	2.09	0.84
24:d2:15:ASN:HD21	24:d2:71:LYS:HG3	1.41	0.84
36:1:2818:U:H6	36:1:2818:U:H5'	1.40	0.84
36:1:128:G:N7	92:1:4487:OHX:N2	2.26	0.84
1:2:1429:G:H1'	22:D0:74:GLU:HG2	1.59	0.84
1:6:1202:A:OP1	92:6:2225:OHX:N2	2.10	0.84
36:5:18:G:OP1	71:o5:81:ARG:NH2	2.10	0.84
36:5:1073:U:H1'	65:n9:50:THR:HG22	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:216:VAL:HG11	44:l7:227:GLY:HA3	1.57	0.84
1:2:1769:U:OP2	92:2:2202:OHX:N1	2.10	0.84
18:C6:93:HIS:HA	18:C6:97:VAL:HG13	1.57	0.84
1:6:513:U:OP1	11:s9:133:HIS:NE2	2.09	0.84
36:5:744:A:OP1	54:m8:66:ARG:NH2	2.11	0.84
53:m7:69:ARG:HG2	53:m7:79:THR:HG23	1.60	0.84
36:5:3035:A:OP2	92:5:4309:OHX:N5	2.11	0.84
50:m4:16:GLU:HB3	56:n0:149:LYS:HB3	1.60	0.84
36:1:2278:C:OP1	92:1:4191:OHX:N3	2.11	0.84
24:D2:15:ASN:HD21	24:D2:71:LYS:HA	1.41	0.84
67:O1:82:GLU:OE2	92:O1:202:OHX:N1	2.10	0.84
1:6:230:C:H42	1:6:235:G:H1	1.26	0.84
36:5:1639:C:OP2	70:o4:74:ARG:NH2	2.10	0.84
36:5:1937:U:O4	92:5:4554:OHX:N5	2.10	0.84
63:N7:26:VAL:HG11	63:N7:96:VAL:HB	1.60	0.83
92:5:4316:OHX:N6	90:a:74:C:H5"	1.94	0.83
36:1:283:G:OP1	78:Q2:45:ARG:NH2	2.12	0.83
40:l3:291:GLU:OE1	40:l3:302:LYS:NZ	2.10	0.83
1:2:992:A:H2	1:2:1012:U:H3	1.26	0.83
1:2:651:G:O6	92:2:2152:OHX:N4	2.12	0.83
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	1.58	0.83
36:5:2861:U:OP1	92:5:4158:OHX:N1	2.11	0.83
1:2:1011:G:OP2	92:2:2138:OHX:N6	2.10	0.83
1:2:1542:G:N2	1:2:1569:A:OP2	2.11	0.83
1:2:1738:U:O4	92:2:2087:OHX:N4	2.11	0.83
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.43	0.83
36:5:1466:G:O6	92:5:4170:OHX:N5	2.12	0.83
38:8:82:U:O5'	92:8:237:OHX:N2	2.11	0.83
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.61	0.83
36:1:3376:A:OP2	92:1:4140:OHX:N5	2.12	0.83
78:Q2:50:PHE:O	92:Q2:505:OHX:N2	2.12	0.83
18:c6:97:VAL:HG22	18:c6:98:ASP:H	1.41	0.82
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.12	0.82
36:1:128:G:O6	92:1:4487:OHX:N5	2.12	0.82
36:1:2393:G:H4'	40:L3:252:ILE:HG12	1.60	0.82
9:s7:66:SER:O	9:s7:68:ALA:N	2.11	0.82
39:l2:238:ILE:O	39:l2:240:ALA:N	2.12	0.82
36:5:2963:C:OP1	92:5:4518:OHX:N1	2.11	0.82
1:6:895:G:H21	16:c4:38:THR:HG21	1.44	0.82
21:c9:16:ASN:OD1	21:c9:56:LYS:NZ	2.12	0.82
36:5:155:G:H5"	36:5:156:G:C8	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2875:U:O2	90:a:76:PPU:O2'	1.97	0.82
1:2:1382:A:H5"	22:D0:60:THR:HG22	1.62	0.82
36:1:742:G:O6	92:1:4209:OHX:N1	2.13	0.82
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.44	0.82
82:c5:65:LEU:O	92:c5:201:OHX:N2	2.12	0.82
36:5:437:G:H22	36:5:622:A:H61	1.27	0.82
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.12	0.82
36:5:1819:U:O4	92:5:4308:OHX:N3	2.13	0.82
42:l5:68:THR:HG22	42:l5:70:THR:H	1.45	0.82
15:C3:151:ASN:O	92:C3:201:OHX:N6	2.12	0.82
57:n1:14:MET:HE1	57:n1:55:LYS:HB2	1.62	0.82
28:D6:9:GLY:HA3	28:D6:34:LYS:HE2	1.61	0.82
39:l2:172:GLY:HA3	79:q3:68:ALA:H	1.45	0.82
36:5:1070:U:O4	92:5:4366:OHX:N6	2.12	0.81
78:q2:50:PHE:O	92:q2:203:OHX:N1	2.12	0.81
36:1:2535:A:H61	36:1:2544:U:H3	1.26	0.81
1:6:1381:U:OP1	92:6:2283:OHX:N6	2.13	0.81
1:2:452:A:OP2	92:2:2084:OHX:N5	2.14	0.81
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.12	0.81
36:1:3329:U:H5"	40:L3:308:MET:HE3	1.63	0.81
36:5:1878:G:OP1	92:5:4213:OHX:N5	2.13	0.81
36:5:2983:C:OP1	92:5:4528:OHX:N6	2.13	0.81
35:SM:34:LYS:NZ	36:1:2707:C:OP1	2.12	0.81
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.12	0.81
8:s6:163:THR:HG22	8:s6:168:THR:HG22	1.61	0.81
1:6:1050:G:O6	92:6:2332:OHX:N4	2.13	0.81
36:5:3126:C:OP1	92:5:4479:OHX:N5	2.13	0.81
1:2:151:G:O6	26:D4:124:ARG:NH2	2.13	0.81
36:1:2875:U:O4	92:1:4446:OHX:N6	2.14	0.81
37:7:1:G:O2'	42:l5:270:LYS:HB3	1.81	0.81
4:S2:81:MET:HE1	4:S2:186:LYS:HB3	1.63	0.81
47:m0:175:ASN:OD1	47:m0:176:LEU:N	2.13	0.81
1:2:1625:C:OP1	4:S2:91:ARG:NH2	2.14	0.81
36:1:343:U:OP2	92:1:4118:OHX:N6	2.13	0.81
1:2:1381:U:OP1	92:2:2238:OHX:N3	2.13	0.80
33:e1:84:VAL:HG13	33:e1:85:TYR:HD1	1.45	0.80
1:2:1254:U:OP2	14:C2:46:ARG:NH1	2.15	0.80
72:o6:70:ARG:HD3	72:o6:84:LYS:HG2	1.63	0.80
1:2:1588:G:H1	1:2:1608:U:H3	1.27	0.80
18:C6:47:LYS:HZ1	18:C6:114:ARG:HG2	1.43	0.80
47:M0:76:MET:HE1	47:M0:138:VAL:HG11	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.15	0.80
36:1:2311:G:OP2	92:1:4385:OHX:N1	2.14	0.80
36:5:1239:C:H42	36:5:1249:G:H1	1.26	0.80
36:5:2522:G:O6	39:l2:70:ARG:NH2	2.14	0.80
36:1:556:U:OP2	92:1:4376:OHX:N4	2.14	0.80
36:5:2793:G:H5"	78:q2:66:LYS:HG2	1.64	0.80
41:l4:170:LYS:HG3	41:l4:175:HIS:HB2	1.64	0.80
38:4:137:C:OP2	92:4:244:OHX:N5	2.15	0.80
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	1.64	0.80
18:c6:82:ARG:HH22	18:c6:114:ARG:HG3	1.46	0.80
1:6:1542:G:N2	1:6:1569:A:OP2	2.15	0.80
17:C5:69:GLU:OE1	92:C5:202:OHX:N4	2.15	0.80
25:d3:42:PRO:O	25:d3:79:ASN:ND2	2.15	0.80
47:m0:193:ASP:OD2	47:m0:198:LYS:NZ	2.14	0.80
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.54	0.80
36:1:148:G:OP2	51:M5:4:TYR:OH	1.99	0.80
36:1:1789:G:O6	92:1:4420:OHX:N4	2.15	0.80
36:1:3253:G:N7	92:1:4289:OHX:N2	2.30	0.80
10:S8:122:GLY:O	92:S8:303:OHX:N6	2.15	0.79
36:5:149:U:OP2	51:m5:49:ARG:NH1	2.14	0.79
47:m0:54:SER:HB2	47:m0:135:ILE:HD11	1.64	0.79
1:2:523:G:OP2	26:D4:37:LYS:NZ	2.15	0.79
1:6:42:G:N7	92:6:2323:OHX:N6	2.30	0.79
32:e0:59:GLY:O	32:e0:61:SER:N	2.15	0.79
36:5:2967:A:H5"	39:l2:213:GLY:HA3	1.64	0.79
39:l2:68:LYS:HD3	39:l2:70:ARG:HH21	1.47	0.79
36:1:1564:U:H2'	36:1:1565:G:H8	1.47	0.79
1:6:235:G:H2'	1:6:236:A:H8	1.48	0.79
1:6:1471:A:OP1	7:s5:185:ARG:NH1	2.16	0.79
82:c5:68:PRO:O	92:c5:201:OHX:N1	2.15	0.79
66:o0:22:LYS:HD3	66:o0:94:GLU:HG3	1.63	0.79
70:o4:58:ARG:HG3	70:o4:59:PRO:HD2	1.65	0.79
1:2:820:U:H2'	1:2:821:U:H4'	1.65	0.79
36:1:2771:U:O2'	36:1:2772:C:O4'	2.00	0.79
11:s9:133:HIS:HD2	11:s9:162:SER:HB2	1.47	0.79
36:5:439:C:H4'	36:5:440:A:H5'	1.64	0.79
92:5:4363:OHX:N5	38:8:139:U:O4	2.15	0.79
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.14	0.79
36:1:542:G:O6	92:1:4505:OHX:N5	2.15	0.79
19:c7:27:ASP:O	19:c7:31:ASN:ND2	2.15	0.79
47:m0:38:LYS:HG3	47:m0:41:ALA:HB2	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:181:LEU:O	3:S1:185:THR:N	2.14	0.79
36:1:431:U:O4	92:1:4233:OHX:N2	2.16	0.79
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.65	0.79
36:1:3203:U:O4	92:1:4451:OHX:N3	2.16	0.79
36:5:2786:G:N2	64:n8:58:MET:SD	2.55	0.79
52:m6:110:PRO:O	52:m6:113:ASP:N	2.13	0.79
36:1:3344:A:H2	36:1:3361:G:H21	1.28	0.79
82:c5:138:PHE:O	92:c5:202:OHX:N2	2.15	0.79
46:l9:137:SER:HB2	46:l9:143:GLU:HB3	1.64	0.79
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.64	0.79
73:O7:48:ASN:OD1	73:O7:54:LYS:NZ	2.16	0.79
41:l4:144:LYS:HG2	41:l4:145:ILE:H	1.47	0.79
33:E1:144:CYS:HB3	33:E1:147:VAL:HB	1.65	0.78
36:1:781:G:N7	92:1:4174:OHX:N5	2.29	0.78
1:6:1579:U:OP1	92:6:2293:OHX:N4	2.15	0.78
36:5:673:U:OP1	54:m8:21:SER:OG	2.00	0.78
36:5:837:A:OP2	79:q3:4:ARG:NH1	2.14	0.78
47:m0:218:ALA:O	92:m0:302:OHX:N3	2.16	0.78
1:6:1385:G:N7	92:6:2217:OHX:N6	2.31	0.78
42:l5:76:ALA:HB3	42:l5:109:THR:HG22	1.64	0.78
92:2:2230:OHX:N5	11:S9:8:TYR:O	2.17	0.78
9:S7:51:VAL:HG12	9:S7:53:GLY:H	1.48	0.78
36:1:979:U:H1'	36:1:980:A:C8	2.18	0.78
1:6:301:A:OP2	92:6:2189:OHX:N1	2.16	0.78
1:6:1552:U:OP2	82:c5:43:ARG:NH2	2.16	0.78
8:S6:153:VAL:O	8:S6:155:ASP:N	2.16	0.78
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.17	0.78
36:5:299:G:N7	92:5:4462:OHX:N1	2.32	0.78
36:5:742:G:O6	92:5:4547:OHX:N2	2.16	0.78
24:D2:6:VAL:HG13	24:D2:29:PRO:HD2	1.64	0.78
38:4:150:G:N7	92:4:238:OHX:N4	2.30	0.78
16:C4:50:ALA:O	16:C4:52:ARG:N	2.17	0.78
47:M0:215:GLU:OE2	92:M0:308:OHX:N6	2.17	0.78
1:6:144:U:H5	8:s6:137:ARG:HH12	1.30	0.78
1:6:691:C:OP1	1:6:696:C:N4	2.17	0.78
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.65	0.78
36:1:764:U:O4	92:1:4196:OHX:N5	2.16	0.78
45:L8:148:ALA:HA	45:L8:201:THR:HG22	1.65	0.78
1:6:563:U:H4'	32:e0:17:GLN:NE2	1.99	0.78
65:n9:16:ALA:O	65:n9:20:GLY:HA3	1.83	0.78
36:1:2854:U:OP2	47:M0:3:ARG:NH2	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:725:G:OP2	92:5:4547:OHX:N5	2.17	0.78
36:5:1170:A:OP2	92:5:4260:OHX:N3	2.17	0.78
36:5:1235:U:H4'	36:5:1236:G:H5'	1.64	0.78
36:5:1824:U:OP1	74:o8:3:ARG:NH2	2.16	0.78
36:5:1833:G:H21	75:o9:4:GLN:HE21	1.27	0.78
36:5:2123:G:N7	92:5:4355:OHX:N1	2.32	0.78
2:S0:52:LYS:HB3	23:D1:82:VAL:HG22	1.66	0.78
36:1:1759:C:N4	36:1:1766:G:O6	2.17	0.78
36:1:3049:A:OP2	92:1:4447:OHX:N1	2.17	0.78
13:c1:125:VAL:HG13	13:c1:137:PHE:HB3	1.65	0.78
36:5:626:U:O4	92:5:4240:OHX:N4	2.17	0.78
36:5:1919:G:N7	92:5:4329:OHX:N4	2.32	0.78
1:2:471:A:OP2	92:2:2123:OHX:N4	2.17	0.78
18:C6:40:GLU:HA	18:C6:42:GLU:N	1.98	0.78
36:1:2875:U:O4	92:1:4446:OHX:N4	2.16	0.78
1:6:1366:U:O4	92:6:2302:OHX:N3	2.17	0.78
3:S1:48:VAL:HG13	3:S1:61:LEU:HD21	1.65	0.77
36:1:668:G:OP1	92:1:4362:OHX:N2	2.16	0.77
50:M4:113:THR:HG22	50:M4:116:GLU:H	1.49	0.77
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.17	0.77
36:5:1097:G:OP1	57:n1:129:LYS:NZ	2.17	0.77
1:2:1488:G:H3'	1:2:1515:A:H61	1.50	0.77
1:6:1534:G:OP2	27:d5:74:SER:OG	2.01	0.77
2:s0:79:ARG:NH1	2:s0:164:ASN:O	2.14	0.77
49:M3:165:SER:O	49:M3:167:PHE:N	2.15	0.77
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.17	0.77
1:6:1227:A:H4'	1:6:1228:G:H5'	1.64	0.77
63:n7:88:ASP:O	63:n7:121:ARG:NH2	2.16	0.77
33:e1:108:VAL:HG22	33:e1:114:VAL:HG22	1.66	0.77
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.16	0.77
36:5:839:C:O2'	36:5:1724:U:OP1	2.02	0.77
41:l4:99:MET:HE3	41:l4:102:PRO:HA	1.64	0.77
47:m0:86:HIS:HB3	47:m0:139:ARG:HG2	1.67	0.77
1:2:1282:U:OP1	92:2:2165:OHX:N5	2.18	0.77
21:c9:57:ARG:HG3	21:c9:57:ARG:HH11	1.48	0.77
36:5:1565:G:N1	36:5:1574:C:N3	2.33	0.77
36:5:3122:A:N1	46:l9:70:THR:HG21	1.99	0.77
63:n7:83:THR:HG23	63:n7:85:TYR:H	1.50	0.77
28:D6:38:ARG:HH21	28:D6:83:ILE:HG13	1.49	0.77
64:n8:6:THR:HG23	64:n8:8:THR:HG23	1.67	0.77
75:o9:5:LYS:HD3	75:o9:13:MET:HE1	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:144:VAL:HG12	42:L5:173:VAL:HG22	1.67	0.77
50:M4:135:LEU:HD11	52:M6:178:VAL:HG22	1.66	0.77
79:Q3:32:GLN:HG2	79:Q3:70:THR:HB	1.67	0.77
2:s0:52:LYS:NZ	23:d1:82:VAL:O	2.18	0.77
36:5:3153:U:H4'	36:5:3154:C:H5'	1.65	0.77
36:5:3182:G:OP1	52:m6:160:ARG:NH2	2.18	0.77
40:l3:185:GLY:O	40:l3:191:LYS:NZ	2.13	0.77
71:o5:76:GLN:O	71:o5:81:ARG:NH1	2.18	0.77
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.18	0.77
71:o5:85:THR:HG22	71:o5:88:LEU:H	1.50	0.77
1:2:895:G:H1	1:2:917:U:H3	1.32	0.76
36:5:2697:A:H2'	36:5:2698:G:C8	2.20	0.76
36:5:2697:A:H2'	36:5:2698:G:H8	1.50	0.76
1:2:434:G:N7	92:2:2094:OHX:N4	2.33	0.76
11:s9:110:GLN:HE22	11:s9:126:ARG:HG2	1.49	0.76
51:m5:47:LYS:HE3	51:m5:51:LEU:HD11	1.65	0.76
72:o6:63:ASN:O	72:o6:65:GLY:N	2.18	0.76
22:d0:95:ALA:HB1	22:d0:99:ILE:HG13	1.68	0.76
36:5:326:U:OP1	49:m3:31:LYS:NZ	2.17	0.76
36:5:1448:U:H5"	53:m7:66:SER:HB2	1.67	0.76
41:l4:16:THR:HG23	41:l4:18:ASN:H	1.49	0.76
36:1:978:G:O2'	36:1:979:U:O2	2.03	0.76
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.18	0.76
64:N8:94:ALA:HB1	64:N8:122:PRO:HD2	1.67	0.76
36:5:1019:G:N7	92:5:4524:OHX:N5	2.34	0.76
41:l4:20:LEU:HD11	41:l4:252:GLU:HG3	1.67	0.76
78:q2:73:GLU:HG3	78:q2:80:ARG:HG2	1.67	0.76
41:L4:143:GLU:O	92:L4:408:OHX:N2	2.18	0.76
71:O5:31:LEU:HD13	71:O5:47:VAL:HG11	1.67	0.76
36:5:431:U:O4	92:5:4240:OHX:N1	2.18	0.76
50:m4:22:LEU:HB3	50:m4:64:VAL:HG13	1.68	0.76
1:2:520:A:H2'	1:2:521:A:C8	2.21	0.76
1:6:1220:C:H5'	80:c0:52:LYS:HE2	1.67	0.76
1:6:1492:A:HO2'	1:6:1493:A:H8	1.33	0.76
28:d6:10:ARG:HB2	28:d6:34:LYS:HA	1.68	0.76
36:5:343:U:OP2	92:5:4182:OHX:N3	2.18	0.76
37:7:37:G:N2	37:7:43:U:O4	2.19	0.76
92:2:2078:OHX:N3	15:C3:12:SER:O	2.19	0.76
13:C1:3:THR:OG1	13:C1:82:ARG:NE	2.17	0.76
36:1:2236:G:OP1	92:1:4358:OHX:N6	2.19	0.76
1:6:800:U:H2'	1:6:801:G:H8	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:113:GLN:HG2	92:m0:303:OHX:N4	2.00	0.76
1:2:1173:C:H3'	20:C8:141:THR:HG21	1.68	0.76
1:6:1066:C:OP1	3:s1:151:LYS:NZ	2.17	0.76
36:5:1538:G:O6	92:5:4511:OHX:N4	2.19	0.76
1:2:190:C:N4	1:2:196:G:O6	2.19	0.76
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.19	0.76
1:6:1795:U:O2	28:d6:10:ARG:NE	2.17	0.76
15:c3:151:ASN:O	92:c3:201:OHX:N6	2.19	0.76
20:c8:127:HIS:CD2	20:c8:133:VAL:HG21	2.21	0.76
36:5:1025:A:H3'	36:5:1026:A:H4'	1.67	0.76
1:2:1618:C:O2'	92:2:2245:OHX:N3	2.18	0.75
78:Q2:17:CYS:SG	78:Q2:77:CYS:CB	2.73	0.75
8:s6:57:ASP:OD1	8:s6:72:ARG:NH1	2.19	0.75
74:O8:24:THR:HG23	74:O8:44:LYS:HB2	1.68	0.75
1:2:66:U:OP1	8:S6:136:LYS:NZ	2.17	0.75
1:2:818:C:N4	1:2:819:G:O6	2.19	0.75
25:d3:102:VAL:HG12	25:d3:127:VAL:HG13	1.68	0.75
36:5:2836:C:H5	36:5:2852:C:H42	1.33	0.75
42:l5:52:VAL:HG21	42:l5:65:ILE:HG13	1.68	0.75
6:S4:153:ASN:O	6:S4:174:LYS:NZ	2.18	0.75
36:1:1222:G:O2'	36:1:1285:G:N1	2.12	0.75
36:1:2338:C:H1'	59:N3:49:LEU:HD12	1.68	0.75
18:c6:37:THR:O	18:c6:45:ARG:NH1	2.19	0.75
36:5:2704:A:OP2	92:5:4156:OHX:N5	2.20	0.75
70:o4:8:ARG:HH21	70:o4:31:ARG:HD2	1.52	0.75
36:1:3195:U:O2'	36:1:3197:G:N2	2.20	0.75
1:6:902:G:N1	16:c4:51:ASP:OD1	2.13	0.75
1:6:1153:G:OP1	28:d6:82:ARG:NH1	2.19	0.75
5:s3:75:LYS:HB3	80:c0:22:VAL:HG22	1.68	0.75
80:c0:32:HIS:CD2	80:c0:33:GLU:H	2.05	0.75
78:q2:48:SER:O	92:q2:203:OHX:N3	2.20	0.75
1:2:1620:C:OP2	92:2:2245:OHX:N6	2.19	0.75
36:1:2392:C:O2'	40:L3:266:ARG:NH2	2.19	0.75
36:5:391:A:OP2	92:5:4560:OHX:N2	2.19	0.75
36:5:1898:G:OP2	92:5:4202:OHX:N5	2.19	0.75
11:S9:110:GLN:HE22	11:S9:126:ARG:HG2	1.52	0.75
22:d0:58:LEU:HD13	22:d0:88:LYS:HE3	1.66	0.75
36:5:1110:U:O4	92:5:4247:OHX:N4	2.20	0.75
46:l9:117:PHE:CE1	46:l9:165:CYS:HB3	2.21	0.75
3:S1:110:LEU:HD21	3:S1:213:ARG:HD2	1.66	0.75
22:D0:61:LYS:HG3	22:D0:86:ILE:HB	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:732:G:O6	92:2:2181:OHX:N5	2.19	0.75
36:1:1420:C:OP2	41:L4:193:LYS:NZ	2.20	0.75
21:c9:37:VAL:HG11	21:c9:100:ILE:HD11	1.68	0.75
1:2:1570:A:OP1	92:2:2218:OHX:N5	2.20	0.74
66:O0:58:TYR:OH	70:O4:97:GLU:OE2	2.03	0.74
1:6:759:U:OP1	92:6:2281:OHX:N2	2.19	0.74
36:5:145:G:O6	92:5:4276:OHX:N5	2.20	0.74
36:5:2877:G:N7	92:5:4398:OHX:N1	2.34	0.74
39:l2:189:TYR:HA	39:l2:192:LYS:HG3	1.68	0.74
41:l4:99:MET:HE3	41:l4:103:THR:H	1.51	0.74
41:l4:339:LEU:HA	41:l4:342:LYS:HB3	1.68	0.74
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.68	0.74
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.20	0.74
5:s3:34:TYR:HE2	5:s3:37:VAL:HG13	1.52	0.74
36:5:2869:U:O2	92:5:4458:OHX:N6	2.20	0.74
63:n7:115:LYS:NZ	63:n7:119:GLU:OE2	2.20	0.74
2:S0:198:MET:HE1	19:C7:88:VAL:HG22	1.69	0.74
36:1:2722:U:OP1	65:N9:33:LYS:NZ	2.15	0.74
36:1:2940:A:N7	40:L3:2:SER:N	2.34	0.74
38:4:107:G:OP2	92:4:244:OHX:N2	2.20	0.74
32:e0:41:THR:HA	32:e0:45:VAL:HB	1.69	0.74
73:o7:21:ARG:NH2	73:o7:41:ALA:O	2.20	0.74
52:M6:15:LEU:HD21	52:M6:125:ARG:HG3	1.69	0.74
33:e1:126:CYS:HB3	33:e1:130:VAL:HG21	1.68	0.74
36:5:604:G:N7	92:5:4434:OHX:N2	2.35	0.74
36:5:1213:G:H4'	56:n0:90:MET:HG2	1.70	0.74
36:5:2853:A:H5'	47:m0:63:GLU:HB2	1.69	0.74
40:l3:53:MET:HG2	40:l3:77:THR:HG22	1.70	0.74
59:n3:87:ARG:HH22	59:n3:137:VAL:HG22	1.53	0.74
1:2:1542:G:H22	1:2:1568:C:H1'	1.52	0.74
36:5:3243:A:OP1	52:m6:159:LYS:NZ	2.20	0.74
42:l5:95:TRP:CH2	42:l5:181:PRO:HD3	2.23	0.74
49:m3:47:ALA:HB1	49:m3:48:PRO:HD2	1.69	0.74
1:2:591:A:H2'	1:2:592:A:H8	1.51	0.74
9:S7:131:PHE:O	9:S7:133:THR:N	2.20	0.74
36:1:1389:G:OP2	92:1:4206:OHX:N4	2.21	0.74
38:4:136:G:OP1	61:N5:48:SER:OG	2.04	0.74
1:6:1130:G:OP2	92:6:2209:OHX:N1	2.21	0.74
36:5:1134:G:N7	92:5:4243:OHX:N3	2.34	0.74
39:l2:149:ARG:NH2	39:l2:252:THR:O	2.20	0.74
40:l3:37:ARG:HG2	40:l3:187:SER:H	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:216:TYR:O	92:m0:302:OHX:N4	2.20	0.74
6:S4:159:THR:HB	6:S4:227:VAL:HG23	1.68	0.74
1:6:1369:U:OP1	21:c9:119:LYS:NZ	2.19	0.74
22:d0:27:THR:HB	22:d0:88:LYS:HG2	1.69	0.74
67:o1:13:THR:HG22	67:o1:72:ARG:HH21	1.51	0.74
47:M0:220:GLN:O	92:M0:308:OHX:N1	2.21	0.74
71:O5:85:THR:HG22	71:O5:87:ALA:H	1.52	0.74
1:6:1769:U:OP2	92:6:2239:OHX:N2	2.20	0.74
13:c1:33:ARG:NH1	13:c1:53:TYR:O	2.21	0.74
40:l3:81:THR:HG22	40:l3:321:PHE:HA	1.69	0.74
88:p0:51:VAL:HB	88:p0:87:VAL:HG22	1.70	0.74
1:2:356:G:OP2	92:2:2082:OHX:N6	2.20	0.74
21:C9:28:LEU:HD13	21:C9:29:GLU:H	1.51	0.74
79:Q3:30:GLU:HA	79:Q3:33:GLN:HG2	1.70	0.74
7:s5:93:LEU:HD23	7:s5:172:ILE:HG23	1.68	0.74
36:5:3272:C:OP2	43:l6:78:ARG:NH1	2.21	0.74
3:S1:62:LYS:O	3:S1:64:ARG:N	2.18	0.74
7:S5:37:GLN:HB3	18:C6:53:LEU:HB3	1.70	0.74
36:5:2211:U:O4	92:5:4218:OHX:N4	2.20	0.74
40:L3:23:ALA:O	92:L3:407:OHX:N6	2.21	0.73
71:O5:10:ARG:NH1	71:O5:60:GLU:OE2	2.21	0.73
1:6:1126:G:OP1	77:q1:15:ARG:NH1	2.21	0.73
25:D3:30:LYS:HE3	25:D3:34:LEU:HD11	1.69	0.73
36:1:980:A:H2'	36:1:981:U:N1	2.02	0.73
36:1:3202:G:O6	92:1:4451:OHX:N1	2.21	0.73
75:O9:9:ILE:HG22	75:O9:13:MET:HE2	1.67	0.73
1:6:333:A:OP1	10:s8:31:ARG:NH2	2.20	0.73
2:s0:163:ASN:O	2:s0:165:ARG:N	2.20	0.73
66:o0:57:GLU:OE1	66:o0:69:TYR:OH	2.06	0.73
53:M7:109:ALA:HA	53:M7:112:LEU:HD22	1.69	0.73
36:5:1310:G:O6	92:5:4284:OHX:N4	2.21	0.73
36:5:2278:C:OP1	92:5:4346:OHX:N6	2.20	0.73
36:5:2897:A:H2'	36:5:2899:C:H5"	1.68	0.73
65:n9:23:LYS:HB3	65:n9:24:PRO:CD	2.18	0.73
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.21	0.73
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.21	0.73
8:s6:98:ARG:NH2	8:s6:101:ILE:O	2.19	0.73
11:s9:118:LEU:HD23	11:s9:158:PHE:CE1	2.23	0.73
26:d4:29:HIS:HB3	26:d4:32:ARG:HB2	1.68	0.73
36:5:354:U:OP1	92:5:4485:OHX:N5	2.21	0.73
63:n7:52:LYS:O	63:n7:65:ARG:NH1	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:n9:20:GLY:O	65:n9:21:ILE:HB	1.88	0.73
4:S2:133:LYS:O	4:S2:136:VAL:HG13	1.89	0.73
36:1:618:C:H5'	53:M7:169:THR:HG22	1.69	0.73
36:1:2946:A:H5"	36:1:2947:G:H5'	1.69	0.73
47:M0:24:ARG:HB2	47:M0:24:ARG:HH11	1.54	0.73
63:N7:51:LEU:HB2	63:N7:65:ARG:HD2	1.70	0.73
64:N8:96:LYS:O	64:N8:98:THR:N	2.21	0.73
1:6:79:C:H1'	8:s6:174:LYS:HG3	1.70	0.73
42:l5:226:TYR:HE1	42:l5:236:LEU:HD11	1.52	0.73
25:D3:34:LEU:O	25:D3:39:LYS:NZ	2.21	0.73
56:N0:155:ARG:NH2	56:N0:171:PHE:O	2.21	0.73
92:5:4385:OHX:N5	47:m0:112:GLN:O	2.21	0.73
92:5:4462:OHX:N4	72:o6:28:TYR:O	2.22	0.73
66:o0:34:LEU:HD23	66:o0:59:TYR:HB3	1.69	0.73
36:1:1443:G:O6	92:1:4211:OHX:N4	2.22	0.73
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.70	0.73
1:6:804:A:N3	24:d2:105:THR:HG22	2.04	0.73
13:c1:132:SER:O	13:c1:134:THR:N	2.21	0.73
20:c8:91:ASP:HB3	20:c8:95:GLY:H	1.54	0.73
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.18	0.73
36:1:1887:A:OP2	92:1:4126:OHX:N4	2.22	0.73
44:L7:163:LEU:O	44:L7:165:ASP:N	2.22	0.73
1:6:698:U:O4	92:6:2170:OHX:N3	2.21	0.73
42:l5:22:ARG:NH1	42:l5:28:THR:OG1	2.19	0.73
47:m0:36:LEU:HD21	47:m0:69:ARG:HD3	1.71	0.73
1:2:1681:A:H2'	1:2:1682:U:H5'	1.71	0.73
33:E1:102:VAL:O	33:E1:104:SER:N	2.19	0.73
67:O1:74:ARG:HH12	67:O1:109:VAL:HG11	1.53	0.73
1:6:1241:G:OP2	82:c5:77:ARG:NH1	2.21	0.73
83:sR:177:MET:HE1	83:sR:193:ILE:HG13	1.71	0.73
36:5:412:G:OP1	53:m7:62:ARG:NH1	2.22	0.73
64:n8:6:THR:HG22	64:n8:9:ARG:HG2	1.69	0.73
7:S5:40:ILE:HG23	7:S5:42:LEU:HD22	1.71	0.72
20:C8:26:ILE:HD11	20:C8:31:ALA:N	2.04	0.72
46:L9:28:VAL:HG22	46:L9:33:THR:HB	1.69	0.72
1:6:339:C:OP2	10:s8:10:LYS:NZ	2.22	0.72
36:5:2810:C:OP1	92:5:4336:OHX:N3	2.21	0.72
71:o5:78:LYS:HA	71:o5:81:ARG:HD3	1.70	0.72
17:C5:65:LEU:O	92:C5:202:OHX:N1	2.21	0.72
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.70	0.72
6:s4:9:LEU:HB2	6:s4:30:ARG:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1682:U:O2	58:n2:82:LYS:NZ	2.22	0.72
1:2:149:C:O2'	8:S6:132:ARG:NH1	2.23	0.72
36:1:2317:A:OP2	92:1:4304:OHX:N6	2.21	0.72
46:L9:48:VAL:HG13	46:L9:52:LEU:HB3	1.72	0.72
36:1:3165:A:H61	36:1:3285:C:H42	1.37	0.72
40:L3:284:ARG:HB3	40:L3:323:MET:HB3	1.70	0.72
3:s1:36:SER:HA	3:s1:41:ARG:HE	1.53	0.72
36:1:1541:G:OP2	92:1:4253:OHX:N5	2.23	0.72
20:c8:28:ILE:HD11	20:c8:56:LYS:HB2	1.72	0.72
1:2:1789:G:OP2	16:C4:132:ARG:NH2	2.18	0.72
23:D1:21:ASN:OD1	24:D2:23:ARG:NH2	2.22	0.72
41:L4:338:LYS:O	41:L4:340:GLY:N	2.19	0.72
1:6:405:C:OP1	92:6:2152:OHX:N5	2.23	0.72
11:s9:59:LEU:HD22	11:s9:69:ARG:HA	1.71	0.72
1:2:926:A:OP1	1:2:1016:C:O2'	2.06	0.72
92:2:2083:OHX:N4	92:2:2243:OHX:N1	2.38	0.72
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.72	0.72
29:D7:62:ILE:HG13	29:D7:63:LEU:H	1.53	0.72
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.69	0.72
41:L4:20:LEU:HD11	41:L4:252:GLU:HG3	1.71	0.72
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.55	0.72
73:O7:88:ALA:O	92:O7:107:OHX:N3	2.23	0.72
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.71	0.72
36:5:2510:U:O2'	36:5:2511:A:H5"	1.90	0.72
37:7:1:G:N3	42:l5:269:SER:OG	2.21	0.72
1:2:1280:C:H2'	1:2:1281:G:H8	1.55	0.72
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.71	0.72
24:D2:82:LYS:O	24:D2:84:GLY:N	2.22	0.72
36:1:1815:U:O2'	36:1:1816:A:OP2	2.07	0.72
55:M9:27:ASN:O	92:M9:204:OHX:N6	2.23	0.72
1:6:1793:G:O2'	28:d6:5:ARG:NH2	2.23	0.72
1:2:1479:A:OP1	21:C9:57:ARG:NH1	2.23	0.72
92:2:2082:OHX:N2	10:S8:17:LYS:O	2.23	0.72
36:1:1733:G:O5'	92:1:4500:OHX:N2	2.22	0.72
36:1:2525:G:OP2	39:L2:37:ARG:NH1	2.23	0.72
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.72	0.72
1:6:1235:C:H5'	33:e1:146:SER:HB2	1.70	0.72
25:d3:70:LYS:HB3	25:d3:93:LEU:HD22	1.71	0.72
36:5:273:A:N7	92:5:4322:OHX:N3	2.38	0.72
86:m2:120:UNK:O	86:m2:122:UNK:N	2.22	0.72
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:838:G:O6	79:Q3:4:ARG:NH2	2.22	0.72
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.38	0.72
52:M6:3:VAL:HG13	52:M6:4:GLU:HG3	1.70	0.72
1:6:1087:A:H2'	1:6:1088:A:C8	2.25	0.72
36:5:368:G:OP1	92:5:4182:OHX:N4	2.23	0.72
41:l4:35:VAL:HG21	41:l4:244:LEU:HD21	1.71	0.72
74:o8:24:THR:HG23	74:o8:44:LYS:HB2	1.71	0.72
1:2:245:U:O4	92:2:2141:OHX:N5	2.23	0.71
1:2:637:C:O2	9:S7:114:ARG:NH2	2.22	0.71
7:S5:57:SER:O	7:S5:59:VAL:N	2.23	0.71
13:C1:3:THR:HG1	13:C1:82:ARG:HE	1.38	0.71
36:1:906:A:OP1	92:1:4234:OHX:N1	2.22	0.71
36:1:3375:A:O2'	36:1:3378:C:OP2	2.07	0.71
73:O7:19:CYS:SG	73:O7:34:CYS:HB2	2.29	0.71
36:5:1409:G:N7	92:5:4428:OHX:N6	2.38	0.71
85:l8:148:ALA:HA	85:l8:201:THR:HG22	1.72	0.71
1:2:1311:U:O4	92:2:2252:OHX:N3	2.23	0.71
3:S1:157:GLN:O	3:S1:159:SER:N	2.22	0.71
36:1:776:U:H5	36:1:2719:U:O2	1.73	0.71
1:6:1253:U:O4	33:e1:97:LYS:NZ	2.21	0.71
1:2:140:A:OP2	8:S6:187:LYS:NZ	2.24	0.71
1:2:1046:G:OP1	3:S1:157:GLN:NE2	2.23	0.71
36:1:1794:G:H4'	39:L2:191:LEU:HD13	1.71	0.71
42:L5:294:ALA:O	42:L5:296:GLN:N	2.23	0.71
1:6:679:U:O4	92:6:2274:OHX:N5	2.23	0.71
1:6:1178:G:H4'	84:sM:83:LYS:HE2	1.71	0.71
36:5:1654:A:H2'	36:5:1655:G:H5'	1.71	0.71
22:D0:20:ILE:HD13	22:D0:22:ILE:HD13	1.71	0.71
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.72	0.71
1:6:417:A:H4'	1:6:418:G:O5'	1.90	0.71
36:5:284:A:OP2	78:q2:41:ARG:NH1	2.24	0.71
56:n0:91:TYR:O	56:n0:137:ARG:NH1	2.23	0.71
1:2:753:A:H5'	6:S4:221:ARG:HG3	1.72	0.71
21:C9:57:ARG:HH21	21:C9:80:TYR:HB3	1.56	0.71
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.72	0.71
20:c8:30:TYR:HE2	20:c8:40:ARG:HH11	1.38	0.71
36:5:640:U:OP1	64:n8:21:ARG:NH2	2.22	0.71
1:2:357:G:OP2	92:2:2106:OHX:N6	2.24	0.71
33:e1:91:ILE:HG12	33:e1:92:LYS:HG2	1.72	0.71
36:5:539:C:H42	36:5:552:G:H1	1.37	0.71
43:l6:146:ILE:HG22	43:l6:150:LYS:HD2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:m4:13:ARG:NH1	50:m4:65:LEU:O	2.22	0.71
3:S1:129:THR:HA	3:S1:177:GLN:HA	1.73	0.71
1:6:1280:C:H2'	1:6:1281:G:H8	1.54	0.71
40:L3:214:MET:HE2	40:L3:350:ALA:HB2	1.71	0.71
1:6:280:U:OP2	87:n4:113:LYS:NZ	2.18	0.71
36:5:838:G:O6	79:q3:4:ARG:NH2	2.22	0.71
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.72	0.71
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.71	0.71
1:6:1383:G:O2'	22:d0:35:GLU:OE2	2.08	0.71
36:5:1231:A:H5"	36:5:1232:C:H5'	1.72	0.71
36:5:1308:A:OP2	36:5:1308:A:H8	1.72	0.71
40:l3:232:ARG:NH1	40:l3:269:GLN:O	2.23	0.71
42:l5:211:LEU:HB3	42:l5:219:PHE:HB2	1.73	0.71
47:m0:99:ILE:HG13	47:m0:123:HIS:HB2	1.71	0.71
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.56	0.71
13:C1:6:THR:O	13:C1:8:GLN:N	2.24	0.71
8:s6:10:ASN:ND2	8:s6:127:THR:O	2.23	0.71
36:5:2284:C:O2	92:5:4449:OHX:N1	2.24	0.71
36:5:2996:U:H4'	36:5:2996:U:OP1	1.89	0.71
47:m0:88:ARG:HG2	47:m0:90:ARG:HG2	1.73	0.71
62:n6:112:ASP:HB3	62:n6:115:ARG:HB2	1.73	0.71
83:sR:161:LYS:HE3	83:sR:162:ALA:H	1.56	0.70
39:l2:144:ASN:ND2	39:l2:161:ASP:OD1	2.24	0.70
34:SR:300:THR:HG23	34:SR:314:GLN:HG3	1.73	0.70
36:1:770:G:N7	92:1:4330:OHX:N3	2.39	0.70
36:1:2895:G:O2'	76:Q0:100:TYR:O	2.07	0.70
41:L4:128:ALA:HB1	41:L4:134:LEU:HD12	1.73	0.70
48:M1:107:ASP:OD1	48:M1:107:ASP:N	2.23	0.70
64:N8:74:ASN:HB2	64:N8:76:ASP:HB2	1.73	0.70
37:7:28:C:H5"	48:m1:137:ARG:HG2	1.73	0.70
1:2:1550:A:P	17:C5:42:ARG:HH22	2.13	0.70
23:D1:74:GLN:NE2	23:D1:81:ASN:O	2.24	0.70
27:d5:71:ILE:HG21	27:d5:76:ALA:HB2	1.73	0.70
33:e1:78:LYS:O	33:e1:80:ARG:N	2.23	0.70
36:5:67:A:OP2	92:5:4551:OHX:N5	2.24	0.70
1:2:853:G:O6	55:M9:173:ARG:NH2	2.25	0.70
36:1:830:A:OP1	92:1:4245:OHX:N4	2.25	0.70
36:1:899:U:O4	92:1:4431:OHX:N1	2.24	0.70
58:N2:56:VAL:HG22	58:N2:65:VAL:HG22	1.73	0.70
1:6:218:A:H2'	1:6:219:A:H5"	1.73	0.70
36:5:583:G:O6	92:5:4279:OHX:N1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:m7:64:ASN:O	53:m7:80:LYS:NZ	2.24	0.70
58:n2:19:VAL:HG12	58:n2:105:LEU:HD22	1.73	0.70
61:n5:115:ARG:NH1	61:n5:119:THR:OG1	2.24	0.70
62:n6:52:ARG:HA	62:n6:70:ILE:HG22	1.73	0.70
1:2:1553:G:O2'	31:D9:14:TYR:OH	2.09	0.70
36:1:2137:U:OP2	36:1:2142:A:N6	2.19	0.70
1:6:687:G:H5"	24:d2:119:LYS:HG3	1.73	0.70
82:c5:108:ARG:HH21	20:c8:119:ILE:HD12	1.56	0.70
1:2:176:C:OP1	92:2:2120:OHX:N3	2.23	0.70
1:2:591:A:H2'	1:2:592:A:C8	2.26	0.70
1:2:1300:A:OP1	4:S2:99:LYS:NZ	2.24	0.70
36:1:385:A:H2'	36:1:386:A:C8	2.27	0.70
36:1:1721:U:O4	55:M9:128:LYS:NZ	2.19	0.70
42:L5:156:GLY:HA2	42:L5:181:PRO:HD3	1.72	0.70
1:6:1502:G:N7	21:c9:102:ARG:NH2	2.39	0.70
3:s1:101:HIS:HA	3:s1:217:LEU:HD22	1.72	0.70
27:d5:71:ILE:HG23	27:d5:73:GLY:H	1.56	0.70
36:5:679:U:O4	92:5:4273:OHX:N2	2.25	0.70
41:l4:26:PHE:HD1	41:l4:130:ALA:HB2	1.55	0.70
1:2:833:U:O4	92:2:2243:OHX:N1	2.25	0.70
18:C6:50:GLU:OE1	18:C6:112:TYR:OH	2.10	0.70
36:1:2861:U:OP1	92:1:4101:OHX:N2	2.23	0.70
65:N9:14:ARG:CZ	65:N9:18:ARG:HD2	2.22	0.70
36:5:272:G:OP2	92:5:4331:OHX:N6	2.24	0.70
36:5:1348:U:OP2	54:m8:38:ARG:NH2	2.24	0.70
9:s7:30:SER:HB2	9:s7:34:LEU:HB2	1.74	0.70
36:5:1686:U:OP1	58:n2:42:LYS:NZ	2.22	0.70
1:2:1331:A:OP1	19:C7:45:ARG:NH2	2.25	0.70
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.19	0.70
36:1:2717:U:OP1	92:1:4217:OHX:N6	2.25	0.70
36:1:3134:A:OP1	92:1:4135:OHX:N4	2.24	0.70
37:3:49:G:N7	42:L5:58:LYS:HG3	2.07	0.70
25:D3:69:ARG:NH1	25:D3:116:ASP:OD1	2.24	0.70
36:5:86:G:O2'	36:5:98:G:O6	2.09	0.70
92:8:231:OHX:N3	73:o7:88:ALA:O	2.25	0.70
36:1:1712:G:O6	66:O0:28:LYS:NZ	2.25	0.69
41:L4:25:VAL:HG22	41:L4:262:TRP:HB2	1.73	0.69
53:M7:172:GLN:NE2	69:O3:60:ARG:O	2.25	0.69
78:Q2:35:LEU:HD23	78:Q2:35:LEU:H	1.56	0.69
1:6:213:A:OP2	92:6:2245:OHX:N1	2.25	0.69
1:6:228:G:H1	1:6:236:A:H61	1.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:c2:61:VAL:HG13	81:c2:121:VAL:HG23	1.74	0.69
36:5:2818:U:H5'	36:5:2818:U:H6	1.56	0.69
90:A:74:C:OP2	92:A:101:OHX:N5	2.24	0.69
1:2:40:A:OP1	11:S9:3:ARG:NH1	2.25	0.69
1:2:614:C:OP2	25:D3:5:LYS:NZ	2.24	0.69
1:2:915:A:OP1	92:2:2142:OHX:N3	2.25	0.69
36:5:30:G:O5'	51:m5:172:ARG:HD2	1.92	0.69
41:l4:144:LYS:O	92:l4:404:OHX:N1	2.25	0.69
47:m0:81:GLY:O	47:m0:83:ASP:N	2.23	0.69
49:m3:128:ARG:NH1	71:o5:109:ILE:O	2.24	0.69
49:m3:166:ALA:HB1	64:n8:147:LEU:HD21	1.74	0.69
77:q1:2:ARG:HG3	77:q1:4:LYS:H	1.56	0.69
1:2:478:A:O2'	11:S9:124:HIS:ND1	2.24	0.69
6:S4:125:LYS:NZ	6:S4:225:VAL:O	2.19	0.69
36:1:2766:U:O4	92:1:4272:OHX:N2	2.25	0.69
18:c6:97:VAL:CG2	18:c6:98:ASP:H	2.06	0.69
36:5:1145:G:OP1	68:o2:44:ARG:NH1	2.25	0.69
37:7:91:G:H2'	37:7:92:A:C8	2.27	0.69
63:n7:102:GLU:H	63:n7:107:ARG:HH21	1.40	0.69
1:2:805:U:H2'	1:2:806:A:H5"	1.75	0.69
16:C4:128:LYS:NZ	28:D6:27:SER:OG	2.25	0.69
36:1:440:A:OP1	36:1:494:G:H1'	1.93	0.69
36:1:2307:G:O2'	36:1:2310:U:OP2	2.09	0.69
47:M0:193:ASP:OD2	47:M0:194:GLY:N	2.22	0.69
48:M1:50:ALA:HB2	48:M1:65:ILE:HD12	1.75	0.69
1:6:1067:C:H5"	3:s1:150:VAL:HG13	1.75	0.69
13:c1:99:ARG:NH1	25:d3:7:ARG:O	2.25	0.69
36:5:2211:U:H5	36:5:2234:G:H1	1.40	0.69
1:2:1564:U:H2'	1:2:1565:C:C6	2.27	0.69
8:S6:24:ILE:O	8:S6:26:VAL:N	2.24	0.69
36:1:599:C:OP1	41:L4:332:LYS:NZ	2.24	0.69
38:4:135:G:OP2	61:N5:56:ARG:NH2	2.26	0.69
47:M0:216:TYR:HA	92:M0:307:OHX:N5	2.07	0.69
61:N5:137:ASN:HB3	61:N5:142:ILE:HG12	1.71	0.69
1:6:475:A:OP2	11:s9:126:ARG:NH1	2.26	0.69
1:6:782:U:OP2	92:6:2296:OHX:N3	2.26	0.69
36:5:1541:G:OP2	92:5:4348:OHX:N4	2.25	0.69
47:m0:119:TRP:O	92:m0:305:OHX:N5	2.26	0.69
1:2:1358:G:H2'	1:2:1359:C:C6	2.27	0.69
1:2:1562:G:OP1	21:C9:89:ARG:NH2	2.25	0.69
20:C8:27:LYS:O	20:C8:29:VAL:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:95:GLY:O	92:C8:203:OHX:N2	2.26	0.69
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.26	0.69
36:1:2718:U:O4	92:1:4400:OHX:N3	2.24	0.69
44:L7:178:ILE:HA	44:L7:183:ASP:HB3	1.75	0.69
1:6:1251:U:H4'	33:e1:134:ASN:H	1.58	0.69
3:s1:48:VAL:HG21	3:s1:61:LEU:HD22	1.75	0.69
11:s9:106:GLU:O	11:s9:111:THR:OG1	2.11	0.69
46:l9:166:ARG:NH2	46:l9:168:ARG:HH12	1.91	0.69
1:2:136:C:H4'	1:2:137:U:OP1	1.91	0.69
2:S0:179:ARG:HD3	2:S0:183:ARG:HH11	1.57	0.69
4:S2:139:ILE:HG22	4:S2:141:ARG:HD2	1.75	0.69
58:N2:50:LEU:HB3	58:N2:54:VAL:HG23	1.75	0.69
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.05	0.69
1:6:647:G:N2	1:6:687:G:H22	1.90	0.69
15:c3:20:ARG:HD3	24:d2:56:HIS:CD2	2.27	0.69
36:5:315:C:OP2	72:o6:28:TYR:OH	2.10	0.69
1:2:169:A:H5"	8:S6:176:GLN:HG2	1.75	0.69
1:2:1572:G:H1'	7:S5:185:ARG:HH12	1.56	0.69
6:S4:129:VAL:HB	6:S4:139:VAL:HG23	1.75	0.69
7:S5:64:VAL:HG12	7:S5:65:ARG:HD3	1.73	0.69
36:1:2718:U:OP2	92:1:4217:OHX:N3	2.25	0.69
36:1:3103:A:OP2	92:1:4419:OHX:N1	2.25	0.69
48:M1:94:ARG:O	48:M1:96:PHE:N	2.26	0.69
6:s4:95:THR:HG23	6:s4:97:GLU:HG3	1.74	0.69
9:s7:73:VAL:O	9:s7:75:THR:N	2.26	0.69
13:c1:14:GLN:HB3	13:c1:54:ILE:HG13	1.74	0.69
36:5:1076:C:O3'	65:n9:38:LYS:NZ	2.23	0.69
36:5:2255:A:H5'	36:5:2261:G:H22	1.58	0.69
36:5:3361:G:O6	92:5:4469:OHX:N3	2.26	0.69
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.26	0.69
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.26	0.69
24:d2:31:SER:HB3	24:d2:34:ILE:HG13	1.74	0.69
55:m9:109:TYR:HB3	55:m9:115:ILE:HG12	1.74	0.69
1:6:206:A:OP2	92:6:2226:OHX:N4	2.26	0.69
82:c5:44:ARG:NH2	82:c5:82:ASN:O	2.26	0.69
36:5:618:C:O2'	36:5:621:A:N3	2.24	0.69
36:5:3299:A:H61	36:5:3315:G:H1	1.38	0.69
1:2:283:U:H5"	8:S6:188:ARG:HD3	1.73	0.68
36:1:1878:G:OP1	92:1:4160:OHX:N4	2.26	0.68
92:5:4260:OHX:N5	44:l7:217:PRO:HA	2.09	0.68
43:l6:86:ALA:H	69:o3:107:ILE:HG21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:178:ILE:HA	44:l7:183:ASP:HB3	1.73	0.68
49:m3:166:ALA:N	64:n8:135:GLU:OE1	2.23	0.68
21:C9:117:SER:HB2	21:C9:123:ARG:HB2	1.72	0.68
36:1:300:G:O6	92:1:4399:OHX:N1	2.26	0.68
21:c9:77:ASN:ND2	21:c9:96:ALA:O	2.27	0.68
36:5:3304:U:O2'	40:l3:334:ARG:NH2	2.25	0.68
36:1:1230:G:H1	36:1:1279:C:H42	1.41	0.68
36:1:2579:G:O6	92:1:4159:OHX:N2	2.24	0.68
46:L9:75:VAL:HA	46:L9:78:MET:HE2	1.75	0.68
4:s2:67:GLN:HA	4:s2:70:ASP:HB2	1.74	0.68
7:s5:222:LYS:HA	7:s5:225:ARG:HH11	1.58	0.68
36:5:2724:U:O4	92:5:4422:OHX:N5	2.26	0.68
46:l9:166:ARG:HH21	46:l9:168:ARG:HH12	1.40	0.68
90:A:76:PPU:H5"	90:A:76:PPU:H8	1.75	0.68
1:2:759:U:OP1	92:2:2230:OHX:N1	2.27	0.68
1:2:1794:A:H1'	28:D6:79:ILE:HD12	1.74	0.68
10:S8:162:ALA:HA	36:1:3353:G:H5'	1.74	0.68
36:1:1740:U:H1'	36:1:1741:A:H2	1.59	0.68
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.28	0.68
63:N7:88:ASP:HB3	63:N7:121:ARG:NH2	2.08	0.68
1:6:822:U:H2'	1:6:823:G:H5"	1.75	0.68
1:6:1533:C:H4'	1:6:1539:G:C6	2.28	0.68
36:5:94:G:H2'	36:5:95:A:C8	2.28	0.68
36:5:239:G:N7	92:5:4388:OHX:N5	2.42	0.68
36:5:2588:U:OP1	85:l8:48:ARG:NH2	2.26	0.68
44:l7:96:PRO:O	44:l7:99:PRO:HD2	1.92	0.68
12:C0:27:PHE:HB3	12:C0:40:LEU:HD23	1.76	0.68
63:N7:16:GLY:O	63:N7:18:TYR:N	2.26	0.68
1:6:755:A:H2'	1:6:756:A:C8	2.29	0.68
1:6:1565:C:OP1	20:c8:41:ARG:HD3	1.92	0.68
9:s7:67:LEU:HG	9:s7:94:ALA:HB2	1.75	0.68
83:sR:42:LEU:HD21	83:sR:82:SER:HB3	1.76	0.68
83:sR:178:VAL:HB	83:sR:192:PHE:HB2	1.75	0.68
36:5:75:G:H5"	49:m3:58:VAL:HG13	1.75	0.68
36:5:1381:A:OP1	41:l4:197:ARG:NH1	2.25	0.68
36:5:2828:G:O2'	47:m0:4:ARG:NH1	2.26	0.68
36:5:3064:U:OP2	92:5:4532:OHX:N5	2.26	0.68
1:2:1385:G:N7	92:2:2185:OHX:N3	2.42	0.68
5:S3:7:LYS:NZ	22:D0:115:GLU:OE2	2.26	0.68
36:1:3118:C:H4'	76:Q0:106:ARG:HH22	1.58	0.68
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:895:G:H1	1:6:917:U:H3	1.40	0.68
1:6:1552:U:O4	82:c5:40:ARG:NH2	2.27	0.68
83:sR:38:ARG:HA	83:sR:67:ILE:HG23	1.76	0.68
36:5:2573:G:N7	92:5:4467:OHX:N2	2.40	0.68
36:5:2736:A:OP1	57:n1:92:ARG:NH1	2.27	0.68
47:m0:174:THR:OG1	47:m0:175:ASN:N	2.23	0.68
36:1:1277:C:HO2'	36:1:1278:A:H8	1.42	0.68
36:1:2572:C:O2'	36:1:2573:G:O4'	2.10	0.68
1:6:151:G:N2	8:s6:13:GLN:OE1	2.26	0.68
92:6:2281:OHX:N4	11:s9:8:TYR:O	2.27	0.68
4:s2:143:TYR:O	24:d2:98:GLN:NE2	2.27	0.68
36:5:1841:A:N3	75:o9:45:ARG:NH2	2.40	0.68
71:o5:64:GLU:OE1	71:o5:68:GLN:NE2	2.26	0.68
11:S9:92:LYS:O	11:S9:94:ASP:N	2.25	0.68
15:C3:72:MET:HE1	15:C3:82:PRO:HD2	1.75	0.68
67:O1:84:ASP:N	67:O1:84:ASP:OD1	2.27	0.68
72:O6:2:THR:OG1	72:O6:3:VAL:N	2.25	0.68
1:6:1521:G:O6	21:c9:68:ARG:NH1	2.25	0.68
81:c2:42:ALA:HB1	81:c2:47:GLU:HB3	1.75	0.68
37:7:68:C:OP1	42:l5:14:SER:OG	2.11	0.68
40:l3:311:PHE:HE2	40:l3:317:ILE:HG13	1.59	0.68
1:2:1169:G:N1	1:2:1575:G:OP2	2.20	0.68
40:L3:3:HIS:O	40:L3:5:LYS:N	2.27	0.68
40:L3:171:LEU:O	92:L3:408:OHX:N6	2.26	0.68
4:s2:45:VAL:HG21	4:s2:68:ILE:HG23	1.75	0.68
67:o1:19:ARG:HD3	67:o1:35:GLU:HG3	1.76	0.68
1:2:145:A:O2'	1:2:146:U:O5'	2.11	0.68
1:2:1369:U:O4	92:2:2198:OHX:N6	2.26	0.68
3:S1:134:VAL:HB	3:S1:219:LYS:HB2	1.74	0.68
7:S5:73:THR:HG23	18:C6:114:ARG:HD2	1.76	0.68
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.74	0.68
41:L4:292:SER:OG	41:L4:293:SER:N	2.24	0.68
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.74	0.68
36:5:2102:U:H2'	36:5:2103:U:H6	1.59	0.68
43:l6:31:ARG:NH1	69:o3:107:ILE:HG22	2.09	0.68
63:n7:124:ALA:O	63:n7:126:LYS:N	2.27	0.68
64:n8:77:LYS:O	64:n8:79:TRP:N	2.27	0.68
11:S9:38:ASN:HB3	11:S9:40:LYS:H	1.58	0.67
14:C2:67:THR:HG22	14:C2:68:GLU:HG3	1.76	0.67
36:1:583:G:O6	92:1:4238:OHX:N2	2.27	0.67
1:6:397:A:O3'	10:s8:50:GLY:HA2	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:639:U:H5"	9:s7:101:LYS:HD3	1.76	0.67
20:c8:30:TYR:O	20:c8:33:THR:OG1	2.12	0.67
36:5:1659:U:H2'	36:5:1660:C:C6	2.29	0.67
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.27	0.67
36:1:1382:G:OP2	41:L4:188:ARG:NH1	2.26	0.67
36:1:2703:A:OP2	42:L5:23:ARG:NH1	2.27	0.67
42:L5:107:ARG:HH22	42:L5:120:LYS:HA	1.59	0.67
53:M7:18:ARG:NH2	53:M7:147:GLU:OE1	2.24	0.67
1:6:1506:G:O6	92:6:2325:OHX:N3	2.26	0.67
3:s1:180:THR:HG23	3:s1:183:GLN:HE22	1.58	0.67
36:5:1238:C:O2'	36:5:1239:C:OP1	2.12	0.67
36:5:2444:C:H42	36:5:2503:G:H1	1.40	0.67
36:5:2975:U:OP1	92:5:4345:OHX:N3	2.28	0.67
40:l3:81:THR:HG21	40:l3:322:ILE:HD13	1.76	0.67
25:D3:102:VAL:HG12	25:D3:127:VAL:HG12	1.76	0.67
30:D8:52:ASP:N	30:D8:52:ASP:OD1	2.27	0.67
40:L3:25:ILE:HD13	40:L3:25:ILE:H	1.60	0.67
47:M0:218:ALA:HB3	92:M0:307:OHX:N4	2.09	0.67
1:6:75:U:O2'	1:6:76:A:O5'	2.09	0.67
1:6:768:C:C2	11:s9:143:ILE:HG12	2.29	0.67
36:5:2726:C:O2'	36:5:2727:A:H2'	1.94	0.67
36:5:2924:U:O4	92:5:4316:OHX:N2	2.27	0.67
36:5:3192:U:O4	92:5:4402:OHX:N2	2.27	0.67
1:2:501:U:HO2'	1:2:502:U:H6	1.40	0.67
1:2:1130:G:OP2	92:2:2121:OHX:N2	2.27	0.67
6:S4:13:ALA:O	6:S4:39:ARG:NH2	2.28	0.67
32:e0:29:LYS:HG2	32:e0:35:TYR:HE2	1.57	0.67
54:m8:86:THR:HG22	54:m8:105:ARG:HB2	1.76	0.67
54:m8:153:PHE:O	54:m8:161:LYS:HG2	1.94	0.67
1:2:1240:U:OP2	92:2:2201:OHX:N1	2.27	0.67
15:C3:5:HIS:HB3	15:C3:117:LEU:HD13	1.75	0.67
67:O1:19:ARG:HD3	67:O1:35:GLU:HG2	1.75	0.67
5:s3:64:ARG:NH1	5:s3:68:GLU:OE1	2.27	0.67
19:c7:13:SER:HA	19:c7:54:THR:HG22	1.76	0.67
36:5:114:A:N1	36:5:266:A:O2'	2.28	0.67
36:5:1615:C:OP1	92:5:4459:OHX:N6	2.28	0.67
1:2:1280:C:H2'	1:2:1281:G:C8	2.28	0.67
20:C8:30:TYR:O	20:C8:33:THR:OG1	2.12	0.67
33:E1:144:CYS:O	33:E1:146:SER:N	2.28	0.67
36:1:3019:U:O4	92:1:4223:OHX:N1	2.27	0.67
10:s8:8:ARG:NH2	10:s8:28:GLU:OE1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2820:A:H2'	90:a:76:PPU:HD2	1.76	0.67
22:D0:48:HIS:ND1	22:D0:48:HIS:O	2.27	0.67
36:1:1477:A:OP1	36:1:3075:G:O2'	2.11	0.67
36:1:2810:C:OP1	92:1:4317:OHX:N6	2.28	0.67
68:O2:81:ASP:O	68:O2:84:THR:HG23	1.94	0.67
1:6:74:U:H3'	1:6:75:U:H3'	1.77	0.67
83:sR:260:ILE:HB	83:sR:274:LEU:HD12	1.75	0.67
53:m7:122:ALA:HB3	53:m7:143:PRO:HB2	1.75	0.67
61:n5:132:ALA:HA	61:n5:135:ILE:HG22	1.75	0.67
62:n6:39:LEU:HD13	62:n6:43:TYR:HE2	1.60	0.67
36:1:425:G:O6	92:1:4109:OHX:N6	2.28	0.67
36:1:1807:G:H5"	63:N7:135:ARG:HH22	1.60	0.67
36:1:2617:U:H5	36:1:2621:G:OP2	1.76	0.67
36:1:2960:C:OP1	92:1:4236:OHX:N4	2.27	0.67
75:O9:9:ILE:O	75:O9:13:MET:HG3	1.95	0.67
1:6:1402:G:OP2	19:c7:5:ARG:NH1	2.27	0.67
63:n7:33:SER:OG	63:n7:35:SER:O	2.10	0.67
69:o3:14:LEU:HD11	69:o3:31:LYS:HB2	1.76	0.67
1:2:936:G:N7	28:D6:15:ARG:NH1	2.42	0.67
5:S3:164:VAL:HG13	5:S3:168:ILE:HD11	1.76	0.67
5:S3:194:LYS:O	5:S3:196:ARG:N	2.27	0.67
38:4:11:C:OP2	92:4:245:OHX:N1	2.28	0.67
55:M9:104:ARG:HH21	55:M9:105:LEU:HB2	1.60	0.67
68:O2:9:ILE:HG12	68:O2:63:THR:HB	1.75	0.67
71:o5:45:LYS:O	71:o5:49:LYS:HG2	1.94	0.67
18:C6:113:ASP:CG	18:C6:114:ARG:H	2.03	0.67
36:1:2947:G:OP2	36:1:2947:G:H4'	1.95	0.67
83:sR:164:ASP:O	83:sR:166:SER:N	2.27	0.67
36:5:173:G:HO2'	36:5:174:C:H6	1.41	0.67
36:5:900:G:H1'	36:5:1589:A:N6	2.09	0.67
44:l7:80:GLN:HG3	57:n1:136:ARG:HB2	1.77	0.67
47:m0:12:GLN:HE21	47:m0:128:ARG:HB3	1.60	0.67
49:m3:56:PRO:HG3	49:m3:74:GLY:O	1.95	0.67
40:L3:139:GLN:O	40:L3:141:GLY:N	2.27	0.66
55:M9:76:SER:O	55:M9:81:ARG:NH1	2.28	0.66
1:6:660:G:H2'	1:6:661:A:H4'	1.77	0.66
1:6:1564:U:H2'	1:6:1565:C:C6	2.30	0.66
18:c6:18:ALA:HB2	18:c6:69:VAL:HG13	1.75	0.66
36:5:361:A:O3'	73:o7:45:ARG:NH2	2.28	0.66
70:o4:80:ARG:HG3	70:o4:88:ARG:HH21	1.60	0.66
1:2:734:A:H5"	1:2:735:C:OP1	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:86:ARG:NH1	21:C9:90:PRO:O	2.27	0.66
35:SM:23:LYS:H	35:SM:23:LYS:HD2	1.59	0.66
36:1:1591:G:OP1	70:O4:16:ARG:NH1	2.27	0.66
1:6:123:G:H21	6:s4:146:THR:HG21	1.61	0.66
36:5:3241:G:H2'	36:5:3245:A:C8	2.29	0.66
1:2:656:G:O2'	1:2:657:U:O4'	2.13	0.66
3:S1:146:GLN:HB3	3:S1:149:GLN:HE22	1.59	0.66
23:D1:71:ARG:O	23:D1:75:ASN:ND2	2.28	0.66
42:L5:115:LEU:H	42:L5:115:LEU:HD22	1.60	0.66
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.59	0.66
11:s9:133:HIS:CD2	11:s9:162:SER:HB2	2.29	0.66
37:7:2:G:O2'	37:7:23:A:N1	2.25	0.66
63:n7:135:ARG:HB3	63:n7:135:ARG:HH21	1.59	0.66
79:q3:6:LYS:HG2	79:q3:7:LYS:HG3	1.77	0.66
2:S0:70:PRO:HB2	2:S0:94:GLY:HA3	1.77	0.66
9:S7:74:GLN:HE22	9:S7:92:PHE:HB2	1.61	0.66
28:D6:24:VAL:HG11	28:D6:71:LEU:HD12	1.77	0.66
36:1:408:A:OP1	92:1:4290:OHX:N3	2.29	0.66
36:1:1492:G:N7	75:O9:2:ALA:HB1	2.10	0.66
36:1:2233:A:OP2	92:1:4278:OHX:N5	2.28	0.66
41:L4:181:VAL:O	41:L4:182:LEU:HB2	1.95	0.66
44:L7:24:GLU:O	44:L7:26:VAL:N	2.29	0.66
48:m1:15:GLU:HB3	48:m1:130:VAL:HG22	1.77	0.66
1:2:1492:A:HO2'	1:2:1493:A:H8	1.43	0.66
3:S1:99:ASN:OD1	3:S1:100:PHE:N	2.29	0.66
4:S2:241:ASP:HA	4:S2:244:SER:HB2	1.78	0.66
33:E1:106:TYR:HE2	33:E1:116:LYS:HG2	1.59	0.66
83:sR:216:LYS:HA	83:sR:239:GLU:HG3	1.77	0.66
36:5:2102:U:H2'	36:5:2103:U:C6	2.30	0.66
36:5:2556:C:O2'	63:n7:135:ARG:NH2	2.28	0.66
41:l4:144:LYS:CG	41:l4:145:ILE:H	2.08	0.66
36:1:1940:G:H21	36:1:3362:A:H8	1.42	0.66
36:1:2979:U:O2	92:1:4446:OHX:N1	2.29	0.66
36:1:3174:A:OP1	69:O3:97:SER:OG	2.12	0.66
92:1:4235:OHX:N4	38:4:139:U:O4	2.29	0.66
37:3:71:G:H2'	37:3:72:A:H8	1.61	0.66
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	1.78	0.66
47:M0:76:MET:HE3	47:M0:148:VAL:HA	1.77	0.66
1:6:139:C:H4'	1:6:140:A:O5'	1.96	0.66
1:6:219:A:H2'	1:6:831:U:O2	1.95	0.66
3:s1:51:SER:HB3	3:s1:57:ALA:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:c5:25:LEU:HA	82:c5:28:MET:HE2	1.78	0.66
36:5:2207:A:H62	36:5:2236:G:H1	1.42	0.66
43:l6:40:LEU:HD13	43:l6:84:VAL:HG11	1.78	0.66
47:m0:68:ALA:HB2	47:m0:158:LYS:HB2	1.78	0.66
48:m1:166:LYS:O	48:m1:168:ASP:N	2.26	0.66
89:p1:34:UNK:O	89:p1:36:UNK:N	2.29	0.66
1:2:207:U:O2	10:S8:178:ARG:NH1	2.29	0.66
1:2:851:U:H2'	1:2:852:C:C6	2.31	0.66
3:S1:201:THR:HG21	3:S1:207:LEU:HD22	1.77	0.66
19:C7:26:LEU:HD22	19:C7:59:LYS:HA	1.77	0.66
36:1:544:C:H1'	36:1:548:G:H22	1.60	0.66
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.29	0.66
39:L2:14:SER:OG	39:L2:15:ILE:N	2.25	0.66
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.28	0.66
41:l4:99:MET:CE	41:l4:103:THR:H	2.08	0.66
44:l7:102:VAL:HG12	44:l7:130:ILE:HD12	1.76	0.66
1:2:66:U:H5	8:S6:173:PRO:HG3	1.61	0.66
1:2:1413:U:O2	92:2:2118:OHX:N4	2.28	0.66
9:S7:165:LYS:O	9:S7:168:SER:OG	2.12	0.66
15:C3:34:ILE:HG13	15:C3:67:THR:HG21	1.76	0.66
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.29	0.66
36:1:3275:U:H5'	69:O3:68:TRP:CZ2	2.26	0.66
39:L2:20:THR:HA	39:L2:23:ARG:HD2	1.76	0.66
1:6:800:U:H2'	1:6:801:G:C8	2.28	0.66
3:s1:129:THR:OG1	3:s1:131:ASP:O	2.11	0.66
49:m3:105:ASN:OD1	49:m3:107:GLU:HG2	1.96	0.66
53:m7:48:LEU:HB3	53:m7:88:VAL:HG13	1.76	0.66
78:q2:12:CYS:SG	78:q2:17:CYS:HB3	2.36	0.66
1:2:1727:G:H2'	1:2:1728:A:C8	2.31	0.66
36:1:2850:G:O6	92:1:4310:OHX:N6	2.29	0.66
83:sR:76:ASP:N	83:sR:76:ASP:OD1	2.28	0.66
36:5:776:U:H5	36:5:2719:U:O2	1.76	0.66
54:m8:67:ILE:HG23	54:m8:81:VAL:HG11	1.77	0.66
63:n7:5:LEU:HD22	63:n7:77:TYR:CZ	2.31	0.66
1:2:688:G:O6	92:2:2212:OHX:N1	2.29	0.66
6:S4:176:ASP:HB2	6:S4:179:LYS:HZ2	1.61	0.66
7:S5:91:GLU:OE2	7:S5:107:LYS:NZ	2.28	0.66
20:C8:120:ARG:NH2	35:SM:58:GLU:OE1	2.24	0.66
36:1:1014:U:H2'	36:1:1015:U:H5"	1.78	0.66
40:L3:169:THR:HG22	40:L3:171:LEU:H	1.61	0.66
56:N0:9:VAL:HG22	56:N0:61:ILE:HD12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:132:LYS:HB3	5:s3:189:MET:HG3	1.78	0.66
36:5:1294:A:O2'	36:5:1295:G:H5"	1.96	0.66
92:8:222:OHX:N6	73:o7:88:ALA:O	2.28	0.66
41:l4:300:ARG:O	54:m8:39:ARG:NH1	2.29	0.66
53:m7:31:GLU:CG	53:m7:60:PHE:HA	2.25	0.66
1:2:320:U:H3'	1:2:321:C:C5'	2.26	0.65
36:1:595:G:N1	36:1:609:G:H5"	2.12	0.65
36:1:1733:G:P	92:1:4500:OHX:N2	2.69	0.65
42:L5:85:ARG:NH1	42:L5:86:TYR:OH	2.29	0.65
51:M5:140:LYS:O	51:M5:144:ARG:HG3	1.95	0.65
66:O0:9:SER:OG	66:O0:10:ILE:N	2.28	0.65
1:6:356:G:OP2	92:6:2163:OHX:N3	2.29	0.65
3:s1:35:PRO:HB3	3:s1:231:LEU:HD11	1.78	0.65
82:c5:86:VAL:HG22	82:c5:89:MET:HE3	1.78	0.65
41:l4:47:ARG:NH1	41:l4:109:TRP:O	2.30	0.65
92:2:2077:OHX:N6	92:2:2203:OHX:N5	2.43	0.65
36:1:1631:C:OP2	63:N7:48:ARG:NH2	2.29	0.65
51:M5:53:TYR:HD1	51:M5:133:ILE:HD13	1.60	0.65
1:6:1460:A:OP2	20:c8:145:ARG:NH2	2.29	0.65
47:m0:85:PHE:HA	47:m0:140:THR:HG22	1.77	0.65
68:o2:19:ARG:HD3	68:o2:28:VAL:HG13	1.77	0.65
1:2:1459:C:OP1	20:C8:126:ARG:NH2	2.28	0.65
10:S8:36:THR:HB	10:S8:57:ALA:O	1.96	0.65
36:1:1603:A:OP1	55:M9:38:ARG:NH1	2.29	0.65
41:L4:193:LYS:HA	41:L4:198:ARG:HA	1.78	0.65
37:7:5:G:OP1	48:m1:143:ARG:NH2	2.29	0.65
42:l5:270:LYS:HG3	42:l5:273:ARG:HB3	1.78	0.65
1:2:66:U:C5	8:S6:173:PRO:HG3	2.31	0.65
1:2:1298:U:OP1	92:2:2074:OHX:N5	2.29	0.65
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.24	0.65
34:SR:179:LYS:NZ	34:SR:191:ASP:OD1	2.25	0.65
1:6:757:A:H4'	6:s4:22:LYS:HD3	1.77	0.65
20:c8:125:ILE:HD11	84:sM:57:ASN:HB3	1.78	0.65
24:d2:73:GLY:HA3	24:d2:128:PHE:CZ	2.31	0.65
36:5:2418:G:O6	92:5:4534:OHX:N2	2.30	0.65
38:8:79:A:H3'	38:8:80:A:C8	2.32	0.65
55:m9:148:ASP:OD1	55:m9:151:ARG:NH2	2.29	0.65
1:2:959:U:H6	15:C3:61:THR:HB	1.61	0.65
36:1:655:C:H2'	36:1:656:A:H8	1.61	0.65
36:1:1786:G:H2'	36:1:1787:A:C8	2.31	0.65
36:1:2123:G:N7	92:1:4343:OHX:N2	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:175:LYS:HD2	44:L7:176:TYR:CZ	2.31	0.65
54:M8:36:LEU:O	54:M8:40:THR:OG1	2.11	0.65
1:6:373:G:N7	92:6:2300:OHX:N3	2.43	0.65
2:s0:179:ARG:HD3	2:s0:183:ARG:CZ	2.26	0.65
4:s2:69:ILE:HG12	4:s2:133:LYS:HB3	1.77	0.65
36:5:541:U:H2'	36:5:542:G:C8	2.32	0.65
36:5:3318:G:OP2	92:5:4397:OHX:N5	2.30	0.65
36:5:3369:G:C6	40:l3:380:MET:HE3	2.31	0.65
36:1:2120:A:OP2	92:1:4243:OHX:N2	2.30	0.65
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.30	0.65
36:1:2242:A:H5'	39:L2:243:THR:HG23	1.78	0.65
36:1:2534:G:H2'	36:1:2535:A:H8	1.61	0.65
1:6:491:C:H42	1:6:497:G:H21	1.43	0.65
2:s0:24:LEU:O	2:s0:163:ASN:ND2	2.28	0.65
11:s9:117:GLY:O	11:s9:119:ALA:N	2.28	0.65
36:5:2882:U:H2'	36:5:2883:U:C6	2.32	0.65
1:2:972:G:O2'	36:1:847:A:N1	2.30	0.65
1:2:1401:A:O3'	19:C7:10:LYS:NZ	2.29	0.65
9:S7:143:LEU:HB2	9:S7:147:ASN:HB2	1.78	0.65
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.78	0.65
36:1:3199:G:H5"	50:M4:6:ILE:HG21	1.79	0.65
36:1:3353:G:O2'	36:1:3356:G:H5'	1.96	0.65
1:6:823:G:H2'	1:6:824:G:O4'	1.96	0.65
6:s4:13:ALA:O	6:s4:39:ARG:NH2	2.30	0.65
18:c6:55:VAL:HG21	18:c6:105:LEU:HG	1.79	0.65
36:5:530:G:N7	92:5:4206:OHX:N3	2.44	0.65
36:5:1010:G:N2	47:m0:193:ASP:OD1	2.30	0.65
36:5:2522:G:H1	39:l2:70:ARG:HH22	1.45	0.65
57:n1:17:ARG:HG2	57:n1:17:ARG:HH11	1.62	0.65
7:S5:37:GLN:HG2	18:C6:53:LEU:HD13	1.78	0.65
36:1:1409:G:N7	92:1:4301:OHX:N3	2.44	0.65
36:1:2433:U:H1'	51:M5:125:SER:HB3	1.79	0.65
1:6:244:A:OP1	6:s4:155:LYS:NZ	2.29	0.65
1:6:363:G:OP1	92:6:2208:OHX:N1	2.29	0.65
3:s1:103:MET:H	3:s1:215:VAL:HG13	1.62	0.65
5:s3:220:PRO:O	5:s3:221:SER:OG	2.11	0.65
36:5:90:C:OP1	64:n8:59:ARG:NH1	2.29	0.65
42:l5:93:THR:HG22	42:l5:158:ARG:HH11	1.60	0.65
1:2:399:A:H4'	6:S4:3:ARG:HG2	1.79	0.65
1:2:1738:U:H2'	1:2:1739:C:C6	2.32	0.65
31:D9:33:LYS:O	31:D9:36:LEU:HD23	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:548:G:O6	92:1:4292:OHX:N2	2.30	0.65
36:1:1240:A:H61	36:1:1244:A:H5"	1.62	0.65
36:1:3119:U:OP2	92:1:4125:OHX:N6	2.30	0.65
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.32	0.65
1:6:159:U:O2'	8:s6:87:ARG:NH1	2.29	0.65
1:6:422:G:OP1	92:6:2152:OHX:N3	2.30	0.65
1:6:1297:G:N2	1:6:1300:A:OP2	2.29	0.65
36:5:602:A:H2'	36:5:603:A:C8	2.32	0.65
36:5:1757:A:OP1	58:n2:94:ARG:NH2	2.30	0.65
36:5:2509:U:H2'	36:5:2510:U:H5"	1.78	0.65
36:5:3094:A:H2'	36:5:3095:U:C6	2.32	0.65
40:l3:303:LYS:HD2	40:l3:361:THR:HG21	1.78	0.65
67:o1:31:ARG:O	67:o1:35:GLU:HB2	1.97	0.65
92:2:2077:OHX:N6	92:2:2203:OHX:N2	2.45	0.65
10:S8:163:GLY:HA3	36:1:3354:U:H1'	1.79	0.65
24:D2:10:ALA:HB1	24:D2:27:ILE:HD12	1.79	0.65
40:L3:123:TYR:CZ	40:L3:124:LYS:HG3	2.32	0.65
46:L9:49:ASN:O	46:L9:49:ASN:ND2	2.30	0.65
1:6:1620:C:H2'	1:6:1621:U:H6	1.61	0.65
18:c6:6:SER:HA	18:c6:23:LYS:HA	1.79	0.65
42:l5:40:HIS:CE1	42:l5:42:ALA:HB3	2.32	0.65
59:n3:2:SER:N	59:n3:56:ASP:OD1	2.30	0.65
36:1:2108:C:H1'	36:1:3344:A:C8	2.32	0.64
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.79	0.64
47:M0:219:ALA:N	92:M0:307:OHX:N4	2.45	0.64
6:s4:121:TYR:HA	6:s4:163:ASP:O	1.97	0.64
26:d4:27:VAL:HG11	26:d4:35:VAL:HG11	1.79	0.64
33:e1:98:VAL:HG12	33:e1:99:LYS:H	1.62	0.64
41:l4:30:ILE:HA	41:l4:124:SER:HB3	1.78	0.64
7:S5:133:VAL:HG22	7:S5:198:LEU:HD13	1.78	0.64
36:1:1492:G:O2'	75:O9:48:LYS:NZ	2.30	0.64
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.30	0.64
38:4:52:A:H62	75:O9:27:ILE:HD13	1.61	0.64
11:s9:149:ARG:HG3	11:s9:149:ARG:HH11	1.62	0.64
15:c3:55:ARG:NH1	15:c3:56:ASP:OD1	2.28	0.64
23:d1:60:ARG:HA	23:d1:65:SER:HB2	1.78	0.64
36:5:410:U:O4	92:5:4358:OHX:N1	2.30	0.64
36:5:1148:G:N7	92:5:4495:OHX:N5	2.45	0.64
36:5:1564:U:H2'	36:5:1565:G:C8	2.32	0.64
47:m0:16:PRO:HG3	47:m0:128:ARG:HH11	1.62	0.64
1:2:768:C:C2	11:S9:143:ILE:HG12	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.78	0.64
16:C4:81:VAL:H	16:C4:115:ILE:HG22	1.61	0.64
41:L4:33:ASP:O	41:L4:37:THR:HG23	1.97	0.64
76:Q0:97:ARG:HB2	76:Q0:120:GLN:O	1.97	0.64
1:6:57:G:OP2	26:d4:116:LYS:HE2	1.97	0.64
1:6:151:G:H1	1:6:163:G:H1	1.45	0.64
1:6:399:A:N3	6:s4:3:ARG:NH1	2.46	0.64
1:6:1280:C:H2'	1:6:1281:G:C8	2.32	0.64
6:s4:49:ARG:NH2	6:s4:50:ASN:OD1	2.25	0.64
1:2:979:A:N3	1:2:1775:U:O2'	2.30	0.64
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.77	0.64
23:D1:40:ASP:HB3	23:D1:46:ILE:HD11	1.79	0.64
36:1:1841:A:N3	75:O9:45:ARG:NH2	2.44	0.64
58:N2:51:GLY:O	58:N2:52:ASN:ND2	2.22	0.64
69:O3:90:PRO:O	69:O3:92:LYS:N	2.30	0.64
2:s0:185:ARG:H	23:d1:45:ALA:H	1.45	0.64
8:s6:98:ARG:HD3	8:s6:99:GLY:N	2.12	0.64
83:sR:167:VAL:HG23	83:sR:183:LEU:HB2	1.80	0.64
36:5:1427:U:OP2	64:n8:4:ARG:NH2	2.31	0.64
46:l9:166:ARG:HD2	46:l9:168:ARG:NH1	2.12	0.64
54:m8:158:HIS:H	54:m8:186:VAL:HG12	1.62	0.64
33:E1:135:HIS:HB2	33:E1:138:ARG:HB2	1.80	0.64
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.31	0.64
36:1:1752:A:OP2	92:1:4281:OHX:N5	2.30	0.64
36:1:3343:G:H21	36:1:3362:A:H2	1.45	0.64
50:M4:38:ILE:HD11	56:N0:150:PHE:CE2	2.33	0.64
62:N6:56:VAL:HG11	62:N6:104:LEU:HD13	1.78	0.64
1:6:1207:C:H42	1:6:1456:C:H5	1.46	0.64
36:5:3134:A:OP1	92:5:4183:OHX:N5	2.31	0.64
40:l3:323:MET:HE1	40:l3:356:LEU:HD11	1.80	0.64
44:l7:158:LYS:HD2	44:l7:159:GLN:N	2.12	0.64
85:l8:100:GLU:OE1	85:l8:108:ARG:NH1	2.31	0.64
54:m8:94:PHE:CZ	64:n8:119:PRO:HD3	2.32	0.64
1:2:1242:A:OP1	17:C5:59:LYS:NZ	2.30	0.64
4:S2:230:TRP:CD2	24:D2:68:ARG:HD3	2.32	0.64
40:L3:227:GLU:HG3	40:L3:232:ARG:HB2	1.80	0.64
1:6:793:A:H3'	1:6:794:U:H5'	1.78	0.64
20:c8:129:TRP:O	84:sM:68:ARG:HB2	1.97	0.64
36:5:2315:G:OP2	92:5:4228:OHX:N3	2.30	0.64
40:l3:77:THR:HG23	40:l3:326:GLY:O	1.98	0.64
47:m0:177:ASP:OD2	47:m0:177:ASP:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:m7:105:LYS:HB3	53:m7:107:LEU:HD13	1.78	0.64
1:2:355:G:OP2	92:2:2082:OHX:N4	2.30	0.64
40:L3:41:VAL:CA	40:L3:185:GLY:HA3	2.27	0.64
41:L4:89:ALA:O	41:L4:91:GLY:N	2.28	0.64
43:L6:102:ASN:OD1	43:L6:105:TYR:N	2.28	0.64
1:6:1081:A:H1'	1:6:1082:C:H5	1.63	0.64
22:d0:22:ILE:HG22	22:d0:93:LEU:HB2	1.79	0.64
25:d3:97:ASP:O	25:d3:100:ASP:HB2	1.98	0.64
83:sR:267:PRO:HD2	83:sR:269:TYR:HE1	1.62	0.64
36:5:1650:G:O6	92:5:4451:OHX:N1	2.31	0.64
85:l8:33:ASN:O	85:l8:35:GLY:N	2.30	0.64
1:2:732:G:O2'	1:2:733:A:O4'	2.16	0.64
1:2:796:A:OP2	92:2:2103:OHX:N6	2.30	0.64
36:1:542:G:H1	36:1:549:U:H3	1.43	0.64
38:4:70:G:O6	92:O7:107:OHX:N4	2.31	0.64
1:6:484:C:H42	1:6:503:G:H1	1.44	0.64
16:c4:20:TYR:HB3	16:c4:27:PHE:HB2	1.79	0.64
28:d6:87:ARG:HB3	28:d6:91:ASP:HB2	1.80	0.64
54:m8:54:LEU:HD13	54:m8:58:ASN:HB3	1.78	0.64
63:n7:26:VAL:HG11	63:n7:96:VAL:HB	1.78	0.64
1:2:539:G:OP2	1:2:539:G:H8	1.80	0.64
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	1.78	0.64
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.61	0.64
36:1:1798:A:H2'	36:1:1799:A:C8	2.33	0.64
41:L4:157:GLU:HG2	41:L4:209:TYR:HB2	1.80	0.64
71:O5:78:LYS:HA	71:O5:81:ARG:HD3	1.79	0.64
1:6:794:U:H4'	1:6:795:U:OP2	1.98	0.64
3:s1:190:PRO:HG2	3:s1:192:VAL:HG23	1.78	0.64
8:s6:10:ASN:HB3	8:s6:128:THR:HA	1.80	0.64
36:5:2666:C:H2'	36:5:2667:A:H5"	1.80	0.64
54:m8:178:ARG:HD3	64:n8:50:PRO:HB2	1.79	0.64
1:2:1606:C:H2'	1:2:1607:G:C8	2.33	0.64
7:S5:42:LEU:HB2	7:S5:46:TRP:O	1.98	0.64
9:S7:35:LYS:O	9:S7:37:GLU:N	2.30	0.64
21:C9:30:VAL:O	21:C9:32:GLY:N	2.31	0.64
34:SR:136:ILE:H	34:SR:136:ILE:HD13	1.63	0.64
36:1:547:G:O2'	36:1:548:G:C8	2.51	0.64
36:1:1464:G:O6	92:1:4172:OHX:N6	2.31	0.64
46:L9:171:ASP:OD1	46:L9:173:ARG:HD3	1.98	0.64
49:M3:56:PRO:HG3	49:M3:74:GLY:O	1.98	0.64
62:N6:112:ASP:H	62:N6:115:ARG:HB2	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:639:U:OP1	9:s7:118:LEU:N	2.31	0.64
80:c0:50:THR:HG22	80:c0:55:VAL:HG22	1.78	0.64
36:5:73:C:O2	49:m3:59:ARG:HD3	1.96	0.64
36:5:549:U:O4	92:5:4271:OHX:N4	2.31	0.64
36:5:1631:C:H5"	36:5:1632:A:H5"	1.79	0.64
61:n5:86:VAL:HG21	61:n5:95:ILE:HG12	1.80	0.64
1:2:1533:C:H4'	1:2:1539:G:N1	2.13	0.63
20:C8:123:ARG:HG3	20:C8:133:VAL:HG11	1.81	0.63
36:1:13:A:H5'	36:1:14:U:OP2	1.98	0.63
92:1:4315:OHX:N1	72:O6:28:TYR:O	2.31	0.63
57:N1:57:TYR:OH	57:N1:87:LYS:HD2	1.99	0.63
21:c9:53:TRP:HH2	21:c9:100:ILE:HD12	1.61	0.63
36:5:1329:U:O2'	36:5:1330:A:OP1	2.17	0.63
17:C5:19:GLY:N	20:C8:93:THR:O	2.25	0.63
36:1:230:U:H2'	36:1:231:G:O4'	1.98	0.63
36:1:1196:C:O2	92:1:4228:OHX:N2	2.32	0.63
36:1:1688:U:H2'	36:1:1689:U:C6	2.33	0.63
83:sR:19:TRP:HB2	83:sR:38:ARG:HG3	1.80	0.63
36:5:1307:G:H1'	36:5:1308:A:C8	2.33	0.63
1:2:206:A:OP2	92:2:2149:OHX:N5	2.32	0.63
7:S5:162:VAL:HB	30:D8:45:LYS:HB3	1.80	0.63
36:1:2216:G:OP1	72:O6:75:LYS:NZ	2.20	0.63
63:N7:14:VAL:HG13	70:O4:86:LYS:HG2	1.80	0.63
8:s6:153:VAL:O	8:s6:155:ASP:N	2.31	0.63
36:5:1232:C:O2'	88:p0:36:GLN:OE1	2.12	0.63
41:l4:16:THR:HG23	41:l4:18:ASN:N	2.14	0.63
74:o8:26:LYS:NZ	74:o8:28:ASN:OD1	2.29	0.63
74:o8:44:LYS:HG2	74:o8:53:THR:HB	1.80	0.63
78:q2:46:LYS:O	92:q2:203:OHX:N3	2.31	0.63
2:S0:123:VAL:HG11	2:S0:133:ILE:HD11	1.79	0.63
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.33	0.63
10:S8:197:THR:HA	10:S8:200:LYS:HB2	1.78	0.63
36:1:172:G:N7	92:1:4226:OHX:N5	2.47	0.63
36:1:542:G:O6	92:1:4505:OHX:N2	2.31	0.63
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.80	0.63
57:N1:17:ARG:O	57:N1:18:ASP:HB2	1.97	0.63
71:O5:102:GLU:OE1	71:O5:106:LYS:HE3	1.99	0.63
24:d2:55:ASP:O	24:d2:57:ARG:N	2.30	0.63
36:5:860:G:OP1	79:q3:17:ARG:NH1	2.31	0.63
41:l4:206:LEU:HD23	41:l4:226:GLU:HB2	1.81	0.63
49:m3:140:SER:OG	49:m3:141:ALA:N	2.18	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:m8:83:VAL:O	54:m8:85:GLY:N	2.31	0.63
57:n1:36:VAL:HA	57:n1:64:VAL:HG22	1.81	0.63
36:1:427:C:OP2	68:O2:15:LYS:NZ	2.30	0.63
36:1:1951:C:H42	36:1:2095:G:H1	1.44	0.63
36:1:2376:G:H2'	36:1:2377:G:C8	2.34	0.63
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.32	0.63
50:M4:121:MET:O	50:M4:125:LYS:HG2	1.98	0.63
74:O8:5:ILE:HG22	74:O8:54:LEU:HB2	1.80	0.63
1:6:1000:C:N4	1:6:1003:A:OP2	2.28	0.63
36:5:2514:U:H6	36:5:2514:U:OP1	1.80	0.63
59:n3:54:LEU:HD12	59:n3:78:VAL:HG12	1.81	0.63
1:2:523:G:H5"	26:D4:59:GLY:O	1.98	0.63
1:2:919:A:H5'	16:C4:18:ARG:HH12	1.63	0.63
1:2:978:A:OP1	92:2:2231:OHX:N5	2.31	0.63
1:2:1599:C:O2	92:2:2161:OHX:N3	2.31	0.63
1:2:1657:U:O4	92:2:2137:OHX:N4	2.32	0.63
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.26	0.63
24:D2:104:LEU:HB2	24:D2:124:LYS:O	1.99	0.63
36:1:3215:A:O5'	50:M4:121:MET:HE1	1.98	0.63
51:M5:143:ARG:HH21	71:O5:92:LEU:HD23	1.63	0.63
1:6:66:U:O2'	1:6:67:A:H5"	1.99	0.63
1:6:161:U:OP2	8:s6:87:ARG:NH2	2.30	0.63
1:6:868:G:H1	1:6:960:U:H3	1.47	0.63
1:6:886:U:O2'	16:c4:121:VAL:O	2.17	0.63
1:6:1600:A:H4'	1:6:1601:G:OP1	1.97	0.63
2:s0:63:ILE:HG12	23:d1:36:VAL:HG22	1.79	0.63
16:c4:87:GLY:HA3	16:c4:120:PRO:HG2	1.81	0.63
36:5:72:C:H5'	49:m3:63:VAL:HG22	1.79	0.63
36:5:549:U:H2'	36:5:550:A:C8	2.34	0.63
36:5:3206:C:O2	56:n0:155:ARG:NH1	2.32	0.63
51:m5:31:ARG:NH1	51:m5:124:ASP:OD1	2.32	0.63
62:n6:45:ILE:HD12	62:n6:119:ILE:HG23	1.81	0.63
1:2:1041:G:H2'	1:2:1042:G:C8	2.34	0.63
36:1:370:U:OP1	92:1:4357:OHX:N2	2.30	0.63
36:1:1679:A:OP1	58:N2:94:ARG:NH1	2.32	0.63
53:M7:50:GLN:OE1	53:M7:56:ARG:NH2	2.32	0.63
1:6:208:U:H4'	10:s8:176:SER:HB3	1.80	0.63
1:6:1087:A:H2'	1:6:1088:A:H8	1.63	0.63
16:c4:92:LYS:HD2	16:c4:121:VAL:HG22	1.80	0.63
20:c8:33:THR:HA	20:c8:38:VAL:HG23	1.81	0.63
36:5:3043:C:P	59:n3:48:ARG:HH22	2.22	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3049:A:H5'	36:5:3049:A:H8	1.62	0.63
41:l4:138:ARG:HE	41:l4:240:PRO:HD2	1.64	0.63
41:l4:301:PRO:O	54:m8:39:ARG:NH1	2.30	0.63
42:l5:64:ILE:HG13	42:l5:109:THR:HG21	1.80	0.63
42:l5:75:LEU:HD23	42:l5:112:LYS:HE2	1.80	0.63
42:l5:295:GLY:HA3	92:l5:309:OHX:N2	2.13	0.63
72:o6:62:ARG:O	72:o6:63:ASN:ND2	2.31	0.63
1:2:377:G:O6	92:2:2125:OHX:N5	2.31	0.63
2:S0:56:LYS:HD2	2:S0:158:VAL:HG23	1.80	0.63
5:S3:40:ARG:HG2	22:D0:110:PRO:HB3	1.80	0.63
6:S4:151:ASP:HB3	6:S4:154:ILE:HG13	1.81	0.63
36:1:1581:C:H2'	36:1:1582:C:H5"	1.80	0.63
36:1:1634:G:N7	63:N7:17:ARG:NH2	2.44	0.63
47:M0:170:LYS:NZ	47:M0:175:ASN:O	2.31	0.63
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.28	0.63
1:6:205:U:O4	92:6:2224:OHX:N6	2.32	0.63
1:6:489:C:O2'	1:6:490:C:O4'	2.17	0.63
6:s4:107:GLY:HA2	6:s4:189:LEU:HG	1.80	0.63
8:s6:130:PRO:HB3	87:n4:81:PRO:HG2	1.79	0.63
10:s8:36:THR:HG21	10:s8:173:PRO:HB2	1.80	0.63
41:l4:8:VAL:HB	41:l4:16:THR:HG21	1.81	0.63
46:l9:140:VAL:HG22	46:l9:143:GLU:HB2	1.80	0.63
66:o0:9:SER:OG	66:o0:10:ILE:N	2.32	0.63
73:o7:65:ARG:HG3	73:o7:65:ARG:HH11	1.63	0.63
74:o8:5:ILE:HG22	74:o8:54:LEU:HB2	1.80	0.63
1:2:1524:A:H2'	1:2:1525:A:C8	2.34	0.63
10:S8:138:ASN:OD1	10:S8:138:ASN:N	2.25	0.63
36:1:18:G:OP1	71:O5:81:ARG:NH2	2.25	0.63
36:1:129:U:O4	92:1:4487:OHX:N5	2.32	0.63
36:1:1460:A:H2'	36:1:1461:A:C8	2.34	0.63
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	1.81	0.63
44:L7:158:LYS:HG2	44:L7:203:TRP:HH2	1.63	0.63
47:M0:9:TYR:O	47:M0:59:GLN:NE2	2.32	0.63
1:6:1417:A:OP1	92:6:2183:OHX:N4	2.31	0.63
1:6:1653:C:OP2	92:6:2174:OHX:N6	2.32	0.63
5:s3:179:GLN:OE1	5:s3:180:GLY:N	2.32	0.63
82:c5:22:LEU:HA	82:c5:25:LEU:HB2	1.81	0.63
22:d0:53:LYS:HB2	22:d0:92:ASP:HB2	1.81	0.63
36:5:801:A:OP1	64:n8:27:LYS:NZ	2.32	0.63
36:5:3218:A:H5"	36:5:3219:G:C8	2.33	0.63
46:l9:90:MET:HB2	46:l9:144:ILE:HG22	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:129:VAL:HG13	47:m0:133:GLN:HG2	1.81	0.63
48:m1:9:MET:O	48:m1:11:ASP:N	2.30	0.63
62:n6:47:ALA:O	62:n6:122:LYS:NZ	2.32	0.63
67:o1:77:ARG:HD2	67:o1:89:LEU:HD23	1.79	0.63
1:2:868:G:H1	1:2:960:U:H3	1.46	0.62
36:1:655:C:H2'	36:1:656:A:C8	2.34	0.62
36:1:3259:U:H6	36:1:3259:U:H5'	1.64	0.62
37:3:37:G:O6	92:3:231:OHX:N1	2.32	0.62
59:N3:80:ARG:NE	59:N3:97:ASP:OD2	2.32	0.62
64:N8:85:ASP:OD1	64:N8:86:LYS:N	2.30	0.62
1:6:667:U:H4'	1:6:668:C:OP1	1.98	0.62
20:c8:145:ARG:HG3	84:sM:68:ARG:HH22	1.64	0.62
36:5:209:A:OP1	41:l4:161:LYS:NZ	2.31	0.62
63:n7:104:PRO:O	63:n7:108:GLU:HG3	1.99	0.62
1:2:514:G:N1	1:2:543:C:H5	1.96	0.62
1:2:1542:G:N2	1:2:1568:C:H1'	2.13	0.62
11:S9:108:ARG:HG2	11:S9:147:MET:HE2	1.82	0.62
18:C6:40:GLU:HA	18:C6:42:GLU:H	1.62	0.62
36:1:1895:A:O2'	36:1:3053:G:H4'	1.98	0.62
36:1:3139:A:H8	36:1:3139:A:H5"	1.64	0.62
41:L4:146:PRO:HG2	41:L4:150:LEU:HD21	1.81	0.62
62:N6:60:ARG:HB2	62:N6:103:LYS:HB3	1.80	0.62
1:6:1263:G:C2	1:6:1264:G:H1'	2.34	0.62
36:5:73:C:N3	49:m3:59:ARG:NH1	2.47	0.62
36:5:269:G:OP1	51:m5:44:ARG:NH2	2.32	0.62
36:5:591:G:N2	36:5:612:U:OP1	2.27	0.62
36:5:1169:A:OP1	92:5:4260:OHX:N6	2.33	0.62
38:8:143:U:OP1	51:m5:38:ARG:NH2	2.32	0.62
46:l9:91:ARG:HG2	46:l9:182:SER:HB3	1.79	0.62
49:m3:50:PRO:O	49:m3:52:ASP:N	2.32	0.62
53:m7:41:LEU:O	53:m7:45:GLN:HG3	2.00	0.62
72:o6:54:GLU:HG2	72:o6:90:MET:HE1	1.81	0.62
78:q2:71:ARG:HH21	78:q2:80:ARG:NH1	1.97	0.62
1:2:700:C:H42	1:2:738:G:H1	1.47	0.62
1:2:1006:C:OP1	92:2:2081:OHX:N5	2.32	0.62
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.31	0.62
36:1:352:A:H61	36:1:365:A:H5"	1.64	0.62
53:M7:129:THR:HG23	53:M7:139:TYR:HB2	1.82	0.62
70:O4:65:VAL:HG12	70:O4:70:LYS:HE2	1.81	0.62
71:O5:67:ARG:HG2	71:O5:80:LEU:HD22	1.80	0.62
79:Q3:8:VAL:HB	79:Q3:11:THR:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1724:U:OP2	92:6:2320:OHX:N1	2.32	0.62
10:s8:61:GLU:HG2	10:s8:62:THR:HG23	1.80	0.62
11:s9:141:VAL:HG21	11:s9:146:PHE:CD2	2.34	0.62
36:5:213:A:OP1	62:n6:2:ALA:N	2.32	0.62
1:2:159:U:O2'	8:S6:87:ARG:NH1	2.32	0.62
10:S8:8:ARG:NH2	10:S8:19:ALA:O	2.31	0.62
15:C3:67:THR:O	15:C3:69:ASN:N	2.31	0.62
18:C6:50:GLU:OE2	18:C6:82:ARG:NH2	2.27	0.62
41:L4:269:SER:O	41:L4:271:LYS:N	2.28	0.62
49:M3:50:PRO:HB2	49:M3:140:SER:O	1.99	0.62
16:c4:47:LYS:HB3	16:c4:62:LEU:HD23	1.81	0.62
36:5:1012:G:O6	92:5:4486:OHX:N3	2.32	0.62
36:5:1743:G:O6	92:5:4356:OHX:N1	2.32	0.62
36:5:3155:U:H3'	36:5:3156:U:H5"	1.81	0.62
54:m8:170:ARG:O	54:m8:171:LYS:HB2	1.98	0.62
61:n5:73:MET:HE1	61:n5:141:TYR:HE1	1.63	0.62
1:2:1482:C:OP2	1:2:1521:G:N2	2.32	0.62
6:S4:49:ARG:HH11	6:S4:50:ASN:HD21	1.45	0.62
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.00	0.62
36:1:3042:U:OP2	36:1:3092:C:N4	2.26	0.62
44:L7:77:VAL:HG22	57:N1:139:ARG:HG2	1.82	0.62
1:6:500:C:O2'	1:6:501:U:O4'	2.18	0.62
1:6:1533:C:H4'	1:6:1539:G:N1	2.14	0.62
4:S2:77:GLN:NE2	4:S2:106:ASP:O	2.32	0.62
7:S5:100:ASN:O	7:S5:102:ARG:N	2.33	0.62
11:S9:53:ARG:NH2	11:S9:97:LEU:O	2.32	0.62
19:C7:13:SER:HA	19:C7:54:THR:HG22	1.82	0.62
36:1:2209:U:OP2	36:1:2209:U:H6	1.82	0.62
64:N8:28:HIS:CD2	64:N8:32:ARG:HG2	2.34	0.62
64:N8:74:ASN:HB3	64:N8:115:LYS:H	1.64	0.62
36:5:1331:U:OP2	92:5:4157:OHX:N3	2.33	0.62
42:l5:122:VAL:O	42:l5:124:GLU:N	2.32	0.62
53:m7:53:ASP:O	92:m7:208:OHX:N6	2.32	0.62
9:S7:144:VAL:HG13	24:D2:49:GLU:HB3	1.80	0.62
11:S9:96:VAL:HA	11:S9:99:LEU:HD22	1.81	0.62
20:C8:24:GLY:O	20:C8:26:ILE:N	2.33	0.62
36:1:239:G:O2'	36:1:240:U:OP1	2.15	0.62
36:1:383:G:O6	92:1:4296:OHX:N2	2.32	0.62
36:1:3122:A:N1	46:L9:70:THR:HG21	2.14	0.62
36:1:3301:U:O4	92:1:4130:OHX:N2	2.32	0.62
1:6:263:C:H4'	1:6:292:U:H5'	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:c1:33:ARG:NH2	13:c1:51:GLY:O	2.31	0.62
36:5:824:C:H5"	39:l2:21:ARG:HD3	1.82	0.62
36:5:942:U:N3	64:n8:16:SER:HA	2.14	0.62
36:5:1098:A:OP2	57:n1:130:ARG:HD3	2.00	0.62
51:m5:84:PRO:HA	51:m5:87:GLN:HB2	1.80	0.62
1:2:149:C:OP1	26:D4:121:THR:OG1	2.15	0.62
1:2:488:G:H4'	1:2:488:G:OP1	1.99	0.62
1:2:1316:G:HO2'	1:2:1401:A:HO2'	1.47	0.62
1:2:1683:C:O2'	1:2:1684:U:O5'	2.17	0.62
27:D5:60:VAL:HG22	27:D5:101:TYR:HB2	1.80	0.62
36:1:1456:A:N7	67:O1:26:LYS:HE2	2.15	0.62
36:1:1733:G:P	92:1:4500:OHX:N6	2.72	0.62
36:1:2403:G:H21	36:1:2404:A:H62	1.47	0.62
40:L3:347:SER:HB3	40:L3:350:ALA:H	1.64	0.62
45:L8:130:TYR:CD1	45:L8:202:GLU:HB3	2.34	0.62
51:M5:190:THR:O	51:M5:194:GLN:HG2	1.98	0.62
81:c2:40:GLY:O	81:c2:124:LYS:N	2.32	0.62
26:d4:29:HIS:O	26:d4:31:ASN:N	2.33	0.62
36:5:283:G:OP1	78:q2:45:ARG:NH2	2.33	0.62
36:5:860:G:C6	39:l2:181:LYS:HB2	2.35	0.62
36:5:1717:U:H2'	36:5:1718:G:C8	2.35	0.62
36:5:2569:A:H4'	36:5:2570:U:H5'	1.82	0.62
42:l5:106:ALA:O	42:l5:110:LEU:HD22	2.00	0.62
43:l6:109:GLU:CD	43:l6:109:GLU:H	2.08	0.62
1:2:1544:U:OP1	20:C8:136:GLN:NE2	2.33	0.62
2:S0:41:ARG:HD2	2:S0:42:PRO:O	1.98	0.62
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.32	0.62
44:L7:150:LYS:HG2	44:L7:151:ARG:HG2	1.82	0.62
48:M1:9:MET:O	48:M1:9:MET:HG3	1.99	0.62
49:M3:75:PHE:O	49:M3:79:GLU:HB2	1.99	0.62
54:M8:116:LYS:NZ	64:N8:88:ASP:OD2	2.29	0.62
63:N7:46:ILE:HD11	63:N7:49:TYR:HA	1.82	0.62
67:O1:79:ARG:H	67:O1:79:ARG:NE	1.97	0.62
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.80	0.62
2:s0:157:ASP:N	2:s0:157:ASP:OD1	2.32	0.62
24:d2:5:SER:O	24:d2:7:LEU:N	2.32	0.62
27:d5:43:ASP:O	27:d5:45:GLU:N	2.33	0.62
36:5:990:U:H1'	57:n1:101:CYS:HB3	1.82	0.62
36:5:2258:U:OP2	92:5:4205:OHX:N4	2.32	0.62
36:5:2385:G:O6	92:5:4191:OHX:N4	2.33	0.62
38:8:155:A:H5'	85:l8:185:ARG:HD2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:m8:185:LYS:HD3	54:m8:186:VAL:HG23	1.81	0.62
1:2:45:U:O2'	1:2:46:A:H2'	1.99	0.62
1:2:139:C:O2'	8:S6:187:LYS:NZ	2.33	0.62
1:2:425:A:H5'	1:2:425:A:H8	1.64	0.62
1:2:581:U:OP2	5:S3:143:ARG:NH1	2.33	0.62
1:2:794:U:O2'	1:2:795:U:O2	2.18	0.62
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.81	0.62
36:1:718:G:C2	36:1:721:G:H1'	2.35	0.62
41:L4:309:ARG:NH2	41:L4:312:VAL:HB	2.14	0.62
61:N5:80:ASN:HD21	61:N5:126:LEU:HB2	1.65	0.62
78:Q2:12:CYS:SG	78:Q2:77:CYS:SG	2.98	0.62
1:6:73:U:H2'	1:6:74:U:C6	2.35	0.62
7:s5:59:VAL:C	7:s5:61:TYR:H	2.07	0.62
9:s7:49:ILE:HG22	9:s7:175:LYS:HD2	1.82	0.62
36:5:172:G:N7	92:5:4557:OHX:N4	2.48	0.62
36:5:531:G:N7	92:5:4474:OHX:N3	2.48	0.62
36:5:1781:C:H2'	36:5:1782:U:C6	2.35	0.62
36:5:2209:U:H1'	36:5:2210:G:H5"	1.82	0.62
68:o2:40:SER:O	68:o2:44:ARG:HG3	1.99	0.62
36:1:434:U:O4	92:1:4415:OHX:N5	2.32	0.61
36:1:1593:A:N3	36:1:1615:C:O2'	2.31	0.61
36:1:2514:U:OP1	36:1:2514:U:H6	1.81	0.61
36:1:3128:G:OP2	92:1:4419:OHX:N6	2.33	0.61
51:M5:14:LYS:HA	51:M5:19:LEU:HD23	1.80	0.61
1:6:1429:G:H1'	22:d0:74:GLU:HG2	1.81	0.61
6:s4:104:ASP:HB3	6:s4:106:LYS:H	1.65	0.61
36:5:132:C:H2'	36:5:133:U:H5"	1.81	0.61
36:5:3178:A:C2	52:m6:115:LYS:HG2	2.35	0.61
37:7:46:A:OP1	42:l5:158:ARG:HD3	2.00	0.61
1:2:67:A:C2	1:2:69:G:H1'	2.35	0.61
1:2:197:A:H61	10:S8:138:ASN:ND2	1.98	0.61
1:2:717:C:H42	1:2:720:G:H22	1.48	0.61
1:2:926:A:H2	16:C4:125:SER:HB3	1.64	0.61
1:2:1796:C:OP2	28:D6:5:ARG:NH1	2.33	0.61
4:S2:67:GLN:HA	4:S2:70:ASP:HB2	1.81	0.61
13:C1:95:PRO:O	13:C1:98:ASN:N	2.33	0.61
36:1:595:G:H1	36:1:609:G:H5"	1.65	0.61
36:1:1720:U:OP2	55:M9:110:ARG:NH1	2.33	0.61
36:1:1724:U:H4'	36:1:1725:C:OP1	2.00	0.61
46:L9:140:VAL:HG22	46:L9:143:GLU:HB2	1.82	0.61
53:M7:53:ASP:O	92:M7:209:OHX:N3	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:828:U:H2'	1:6:829:A:H5"	1.82	0.61
81:c2:81:ASP:O	81:c2:83:GLU:N	2.33	0.61
36:5:2770:G:N7	92:5:4420:OHX:N5	2.47	0.61
1:2:280:U:O2'	1:2:281:G:OP2	2.16	0.61
1:2:867:G:OP2	15:C3:3:ARG:NH1	2.33	0.61
7:S5:161:ASP:O	30:D8:44:VAL:HA	2.00	0.61
29:D7:61:THR:HG23	29:D7:62:ILE:H	1.65	0.61
36:1:2534:G:N7	92:1:4440:OHX:N2	2.47	0.61
58:N2:90:ARG:O	58:N2:91:ASP:HB2	2.00	0.61
1:6:820:U:O2'	1:6:821:U:H5"	1.99	0.61
1:6:1229:G:O6	81:c2:47:GLU:N	2.32	0.61
1:6:1767:G:OP1	1:6:1770:U:H4'	2.00	0.61
8:s6:20:ASP:HB3	8:s6:23:ARG:HG3	1.82	0.61
36:5:943:U:H3'	64:n8:13:GLY:HA2	1.82	0.61
36:5:1915:A:H2'	36:5:1916:U:C6	2.35	0.61
36:5:2568:C:N4	36:5:2574:G:O6	2.33	0.61
44:l7:134:VAL:O	44:l7:229:PHE:HA	2.01	0.61
47:m0:41:ALA:O	47:m0:139:ARG:NH2	2.32	0.61
49:m3:64:LYS:HG3	64:n8:69:TRP:CG	2.34	0.61
63:n7:83:THR:HG23	63:n7:85:TYR:N	2.15	0.61
72:o6:74:LYS:HD2	72:o6:80:PHE:HD2	1.64	0.61
1:2:132:U:H1'	1:2:133:U:OP2	2.00	0.61
36:1:824:C:H5"	39:L2:21:ARG:HD3	1.81	0.61
36:1:2979:U:O4	92:1:4446:OHX:N2	2.33	0.61
36:1:2997:G:O6	92:1:4408:OHX:N5	2.34	0.61
70:O4:81:CYS:O	70:O4:83:ASN:N	2.33	0.61
1:6:563:U:H4'	32:e0:17:GLN:HE21	1.66	0.61
1:6:754:A:N6	1:6:793:A:N7	2.38	0.61
1:6:1034:C:HO2'	24:d2:2:THR:N	1.97	0.61
1:6:1665:U:O4	92:6:2219:OHX:N6	2.34	0.61
8:s6:78:THR:HG23	8:s6:92:ARG:HG2	1.83	0.61
36:5:2195:C:OP2	92:5:4491:OHX:N4	2.33	0.61
85:l8:144:GLU:OE1	72:o6:36:ARG:NH2	2.34	0.61
85:l8:221:ASN:HA	85:l8:225:LYS:HE3	1.82	0.61
6:S4:208:VAL:HG11	6:S4:225:VAL:HG21	1.83	0.61
23:D1:1:MET:HE2	23:D1:13:VAL:HG22	1.82	0.61
36:1:2310:U:OP1	92:1:4385:OHX:N4	2.33	0.61
36:1:2897:A:H2'	36:1:2899:C:H5"	1.82	0.61
36:1:3094:A:H2'	36:1:3095:U:C6	2.36	0.61
42:L5:153:THR:HG22	42:L5:179:ARG:HD2	1.83	0.61
61:N5:67:ILE:HD12	61:N5:121:LYS:HG3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:228:G:N2	1:6:237:C:N3	2.49	0.61
1:6:1738:U:O4	92:6:2158:OHX:N5	2.33	0.61
7:s5:90:ILE:O	7:s5:94:THR:HG23	2.00	0.61
36:5:860:G:C5	39:l2:181:LYS:HB2	2.36	0.61
36:5:1040:A:O2'	47:m0:198:LYS:HE2	1.99	0.61
41:l4:26:PHE:CD1	41:l4:130:ALA:HB2	2.36	0.61
42:l5:218:ARG:NH2	42:l5:221:GLU:OE1	2.34	0.61
1:2:565:C:O2	92:2:2085:OHX:N5	2.34	0.61
1:2:693:U:H5'	1:2:694:U:H5'	1.81	0.61
1:2:1114:G:O6	92:2:2121:OHX:N5	2.33	0.61
1:2:1591:C:H2'	1:2:1592:A:H8	1.65	0.61
3:S1:62:LYS:HD2	3:S1:91:VAL:HB	1.82	0.61
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.33	0.61
34:SR:22:SER:HB3	34:SR:36:ALA:HB3	1.81	0.61
36:1:1113:G:OP2	92:1:4307:OHX:N1	2.33	0.61
36:1:2683:U:H2'	36:1:2684:C:C6	2.36	0.61
46:L9:88:TYR:CE2	46:L9:184:LYS:HG2	2.36	0.61
1:6:1060:U:H4'	1:6:1061:A:H5"	1.83	0.61
83:sR:159:ASN:O	83:sR:161:LYS:N	2.28	0.61
36:5:300:G:O6	92:5:4464:OHX:N2	2.34	0.61
49:m3:64:LYS:HD2	64:n8:66:ALA:HB1	1.81	0.61
59:n3:54:LEU:HD11	59:n3:79:VAL:C	2.25	0.61
17:C5:110:GLU:HB2	20:C8:119:ILE:HD11	1.83	0.61
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.82	0.61
36:1:501:A:H2'	36:1:502:U:C6	2.35	0.61
53:M7:168:LEU:HB2	53:M7:172:GLN:HB3	1.82	0.61
60:N4:4:GLU:HG2	60:N4:30:ARG:HD3	1.82	0.61
6:s4:118:GLU:HA	6:s4:121:TYR:CE1	2.35	0.61
28:d6:87:ARG:NH2	28:d6:91:ASP:O	2.34	0.61
46:l9:171:ASP:OD2	46:l9:173:ARG:NH1	2.33	0.61
49:m3:85:LEU:HD23	49:m3:85:LEU:H	1.66	0.61
4:S2:83:ILE:HD12	35:SM:117:LEU:HD12	1.83	0.61
15:C3:55:ARG:NH1	15:C3:56:ASP:OD2	2.33	0.61
19:C7:63:LYS:HE2	34:SR:284:ALA:HB2	1.83	0.61
36:1:2818:U:H5'	36:1:2818:U:C6	2.30	0.61
36:1:3358:U:H2'	36:1:3359:A:O4'	2.00	0.61
46:L9:126:VAL:HG21	46:L9:161:LEU:HA	1.81	0.61
53:M7:172:GLN:OE1	69:O3:60:ARG:NH1	2.33	0.61
1:6:1067:C:H2'	1:6:1068:C:H6	1.64	0.61
81:c2:97:LEU:HD11	81:c2:121:VAL:HG22	1.83	0.61
16:c4:47:LYS:HG3	16:c4:62:LEU:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2552:C:N4	66:o0:57:GLU:OE2	2.34	0.61
37:7:110:G:OP2	42:l5:279:LYS:NZ	2.33	0.61
41:l4:204:GLY:O	41:l4:246:ARG:NH1	2.33	0.61
43:l6:40:LEU:HD12	43:l6:65:ILE:HD11	1.81	0.61
85:l8:54:GLU:OE2	92:m5:303:OHX:N4	2.34	0.61
46:l9:162:GLN:HB2	46:l9:179:ILE:O	2.01	0.61
58:n2:58:GLU:HB2	58:n2:63:VAL:HG13	1.81	0.61
5:S3:64:ARG:O	5:S3:67:ASN:N	2.29	0.61
6:S4:123:LEU:HD23	6:S4:228:ILE:HG22	1.81	0.61
25:D3:90:ASP:O	25:D3:136:TRP:NE1	2.28	0.61
36:1:1564:U:H2'	36:1:1565:G:C8	2.31	0.61
36:1:3047:U:O2'	40:L3:53:MET:HE1	2.01	0.61
52:M6:62:THR:HG21	52:M6:68:ARG:HG3	1.83	0.61
20:c8:24:GLY:O	20:c8:59:GLY:N	2.33	0.61
40:l3:116:ARG:HG2	40:l3:175:LYS:HA	1.81	0.61
41:l4:26:PHE:HE2	41:l4:258:LEU:HD23	1.66	0.61
1:2:1160:A:H2'	1:2:1161:C:C6	2.36	0.61
16:C4:127:ARG:HG3	28:D6:22:ARG:HH12	1.64	0.61
34:SR:267:PRO:HG2	34:SR:269:TYR:HE1	1.66	0.61
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.35	0.61
36:1:3276:G:H1	69:O3:60:ARG:HH22	1.48	0.61
41:L4:23:PRO:HD2	41:L4:26:PHE:CD2	2.36	0.61
59:N3:87:ARG:HH22	59:N3:137:VAL:HG22	1.65	0.61
61:N5:105:VAL:HG13	61:N5:130:TYR:CD2	2.36	0.61
1:6:1466:G:O2'	1:6:1602:C:OP1	2.18	0.61
2:s0:55:GLU:HG2	23:d1:79:LEU:HD22	1.82	0.61
83:sR:144:LEU:HD21	83:sR:186:PHE:HB3	1.82	0.61
39:l2:70:ARG:HD2	39:l2:72:ARG:HE	1.66	0.61
46:l9:87:LYS:NZ	46:l9:191:LEU:HD21	2.16	0.61
1:2:75:U:H2'	1:2:76:A:O4'	2.01	0.60
1:2:491:C:N3	1:2:496:G:N2	2.47	0.60
1:2:1158:C:OP2	92:2:2184:OHX:N5	2.34	0.60
1:2:1291:G:N2	1:2:1324:G:H22	1.99	0.60
2:S0:185:ARG:HB2	23:D1:45:ALA:H	1.66	0.60
22:D0:23:ARG:NH1	22:D0:92:ASP:OD2	2.33	0.60
24:D2:38:LEU:HD23	24:D2:41:MET:HE3	1.82	0.60
36:1:830:A:OP1	92:1:4499:OHX:N3	2.34	0.60
36:1:2730:G:OP2	92:1:4143:OHX:N5	2.33	0.60
50:M4:94:TRP:CE2	50:M4:100:ALA:HB2	2.36	0.60
1:6:990:C:O2'	16:c4:127:ARG:HD3	2.01	0.60
1:6:1584:G:N2	1:6:1611:A:OP2	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1769:U:O2	16:c4:136:ARG:HD2	2.01	0.60
3:s1:103:MET:HE2	3:s1:215:VAL:HG12	1.83	0.60
13:c1:21:ASN:OD1	13:c1:21:ASN:N	2.34	0.60
16:c4:107:ARG:HH21	16:c4:107:ARG:HB2	1.66	0.60
36:5:1064:A:N6	36:5:1096:U:H3	1.99	0.60
36:5:2997:G:N7	92:5:4453:OHX:N4	2.49	0.60
1:2:888:U:H1'	16:C4:126:THR:HG21	1.81	0.60
1:2:1500:C:OP1	21:C9:122:ARG:NH2	2.33	0.60
1:2:1591:C:H2'	1:2:1592:A:C8	2.36	0.60
1:2:1695:G:H21	1:2:1706:C:H41	1.48	0.60
13:C1:125:VAL:HG13	13:C1:137:PHE:HB3	1.82	0.60
36:1:627:U:H4'	36:1:1399:A:O2'	2.01	0.60
36:1:1821:U:C2	70:O4:67:LYS:HB2	2.36	0.60
1:6:913:G:O6	36:5:2205:U:H1'	2.01	0.60
36:5:3230:G:H4'	50:m4:132:LYS:HD3	1.83	0.60
62:n6:120:GLN:CD	62:n6:126:LEU:HA	2.26	0.60
75:o9:28:ARG:HH11	75:o9:36:ARG:HD3	1.65	0.60
77:q1:16:LYS:O	77:q1:20:VAL:HG23	2.00	0.60
1:2:15:U:H2'	1:2:16:G:O4'	2.00	0.60
5:S3:94:ARG:HH21	35:SM:134:LEU:HD23	1.66	0.60
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.83	0.60
36:1:1108:U:H2'	36:1:1109:U:C6	2.36	0.60
40:L3:43:LEU:HD22	40:L3:203:VAL:HG11	1.83	0.60
42:L5:58:LYS:HB3	42:L5:93:THR:HG21	1.82	0.60
42:L5:211:LEU:HB3	42:L5:219:PHE:HB2	1.81	0.60
45:L8:41:GLN:HG3	45:L8:44:ARG:NH1	2.15	0.60
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.36	0.60
3:s1:179:SER:HB3	3:s1:183:GLN:HB2	1.83	0.60
82:c5:127:ARG:CZ	84:sM:66:ALA:HB2	2.31	0.60
36:5:2207:A:H2'	36:5:2208:A:O4'	2.01	0.60
36:5:2770:G:O6	92:5:4420:OHX:N2	2.35	0.60
36:5:2850:G:O6	92:5:4310:OHX:N3	2.34	0.60
40:l3:41:VAL:CA	40:l3:185:GLY:HA3	2.26	0.60
41:l4:181:VAL:HG11	41:l4:224:GLY:HA3	1.84	0.60
1:2:25:C:O2	92:2:2131:OHX:N1	2.34	0.60
1:2:896:U:O4'	16:C4:38:THR:HG21	2.01	0.60
1:2:1793:G:N2	28:D6:76:SER:OG	2.29	0.60
5:S3:127:MET:HE1	5:S3:133:GLY:HA2	1.83	0.60
18:C6:38:LEU:O	18:C6:45:ARG:NE	2.34	0.60
36:1:531:G:O6	92:1:4376:OHX:N5	2.34	0.60
36:1:621:A:O2'	92:1:4415:OHX:N5	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:673:U:OP1	54:M8:21:SER:OG	2.16	0.60
36:1:1169:A:OP1	92:1:4192:OHX:N3	2.33	0.60
36:1:1278:A:O2'	36:1:1279:C:O5'	2.19	0.60
41:L4:261:VAL:HG22	41:L4:262:TRP:CD1	2.37	0.60
66:O0:26:GLY:O	66:O0:30:THR:HG23	2.02	0.60
79:Q3:46:THR:HB	79:Q3:58:SER:HB2	1.82	0.60
1:6:513:U:H2'	1:6:514:G:C8	2.36	0.60
6:s4:251:GLU:O	6:s4:255:ARG:HG2	2.00	0.60
7:s5:146:THR:HG23	7:s5:157:ARG:HB3	1.83	0.60
82:c5:126:VAL:HG22	82:c5:127:ARG:H	1.67	0.60
36:5:1308:A:OP2	36:5:1308:A:C8	2.52	0.60
36:5:1599:G:OP1	92:5:4394:OHX:N4	2.34	0.60
85:l8:244:ALA:HA	85:l8:247:ASP:HB2	1.84	0.60
62:n6:23:PRO:HG2	62:n6:26:GLN:HG3	1.83	0.60
36:1:627:U:H2'	36:1:628:A:C8	2.36	0.60
36:1:1596:C:H2'	36:1:1597:C:C6	2.36	0.60
41:L4:84:ARG:O	41:L4:87:GLN:HG3	2.02	0.60
54:M8:185:LYS:HD3	54:M8:186:VAL:HG23	1.84	0.60
56:N0:106:LEU:HD23	56:N0:110:MET:HG2	1.84	0.60
69:O3:29:LEU:HD22	69:O3:75:HIS:CD2	2.36	0.60
1:6:434:G:N7	92:6:2178:OHX:N5	2.49	0.60
1:6:694:U:H3'	1:6:695:U:O2	2.01	0.60
6:s4:87:MET:HE3	6:s4:226:PHE:CE1	2.37	0.60
8:s6:136:LYS:HG3	8:s6:173:PRO:HB3	1.82	0.60
9:s7:164:TYR:CE1	9:s7:165:LYS:HG3	2.36	0.60
36:5:1485:G:OP2	92:5:4291:OHX:N2	2.35	0.60
36:5:2703:A:OP2	42:l5:23:ARG:NH2	2.28	0.60
36:5:3287:U:H2'	36:5:3288:G:H5'	1.83	0.60
59:n3:96:GLU:OE1	87:n4:24:GLY:N	2.34	0.60
1:2:1239:U:O4	92:2:2093:OHX:N2	2.35	0.60
1:2:1677:C:OP1	10:S8:42:ARG:NH1	2.35	0.60
12:C0:46:LEU:O	12:C0:50:THR:HG23	2.02	0.60
42:L5:40:HIS:HB3	42:L5:43:LYS:HG3	1.82	0.60
45:L8:101:THR:HG23	45:L8:104:GLU:H	1.67	0.60
1:6:1336:A:OP1	92:6:2283:OHX:N1	2.35	0.60
2:s0:140:ASN:ND2	4:s2:62:PRO:HD3	2.17	0.60
81:c2:36:LEU:HG	81:c2:41:LEU:HD12	1.83	0.60
15:c3:76:LYS:HA	15:c3:81:ALA:HB2	1.83	0.60
36:5:3051:U:H1'	59:n3:92:PHE:CE1	2.36	0.60
44:l7:229:PHE:C	44:l7:229:PHE:HD1	2.10	0.60
47:m0:150:GLU:HG3	47:m0:154:ARG:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:m1:16:LYS:HG3	48:m1:130:VAL:HG13	1.83	0.60
88:p0:190:VAL:HB	88:p0:197:PHE:HB2	1.83	0.60
1:2:1353:U:O4	92:2:2198:OHX:N5	2.35	0.60
25:D3:126:LYS:HA	25:D3:131:SER:HA	1.84	0.60
36:1:1103:A:C8	44:L7:158:LYS:HD3	2.36	0.60
48:M1:94:ARG:C	48:M1:96:PHE:H	2.09	0.60
48:M1:117:ASP:OD2	48:M1:119:SER:OG	2.19	0.60
66:O0:13:LYS:HB3	66:O0:100:ILE:HG23	1.84	0.60
1:6:331:A:H5'	10:s8:33:PRO:HA	1.83	0.60
1:6:1241:G:P	82:c5:77:ARG:HH12	2.25	0.60
22:d0:20:ILE:HD12	22:d0:100:VAL:HG21	1.84	0.60
22:d0:21:LYS:HA	22:d0:94:GLU:HG2	1.83	0.60
36:5:22:G:H1'	38:8:104:A:N3	2.17	0.60
36:5:420:G:O6	92:5:4191:OHX:N3	2.34	0.60
37:7:2:G:H5'	42:l5:270:LYS:HG2	1.82	0.60
38:8:137:C:OP2	92:8:235:OHX:N4	2.35	0.60
40:l3:311:PHE:CE2	40:l3:317:ILE:HG13	2.37	0.60
59:n3:10:LYS:NZ	59:n3:54:LEU:O	2.27	0.60
59:n3:54:LEU:HD21	59:n3:119:GLY:HA3	1.84	0.60
1:2:782:U:H4'	1:2:783:G:OP2	2.00	0.60
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	1.83	0.60
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	1.82	0.60
18:C6:114:ARG:O	18:C6:115:THR:OG1	2.19	0.60
19:C7:20:TYR:CE1	19:C7:38:ILE:HD11	2.36	0.60
36:1:1580:A:H5'	36:1:2522:G:C5	2.37	0.60
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.84	0.60
46:L9:171:ASP:OD2	46:L9:173:ARG:NH1	2.34	0.60
1:6:488:G:N2	1:6:499:U:H3	1.99	0.60
1:6:845:G:H2'	1:6:846:G:H8	1.65	0.60
16:c4:107:ARG:HB2	16:c4:107:ARG:NH2	2.15	0.60
26:d4:129:VAL:O	26:d4:132:ARG:HB3	2.01	0.60
83:sR:157:VAL:HB	83:sR:168:THR:HG22	1.84	0.60
36:5:249:U:O2'	36:5:250:U:H5"	2.01	0.60
47:m0:210:ILE:HA	47:m0:217:PHE:CE2	2.37	0.60
62:n6:37:LYS:H	62:n6:37:LYS:CD	2.15	0.60
65:n9:14:ARG:NH1	65:n9:18:ARG:HD3	2.15	0.60
66:o0:100:ILE:HG13	66:o0:101:LEU:HD22	1.83	0.60
1:2:579:A:H2	5:S3:143:ARG:HG3	1.67	0.60
7:S5:51:VAL:HB	7:S5:131:GLN:HB2	1.83	0.60
36:1:109:A:H4'	36:1:110:G:OP1	2.02	0.60
38:4:85:G:OP2	92:8:237:OHX:N4	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:L6:31:ARG:NH1	69:O3:107:ILE:O	2.35	0.60
49:M3:69:VAL:HG12	49:M3:149:GLN:HE22	1.66	0.60
58:N2:43:VAL:HB	58:N2:49:ASN:HB3	1.82	0.60
79:Q3:56:THR:HB	79:Q3:63:THR:OG1	2.01	0.60
1:6:770:A:OP2	92:6:2233:OHX:N3	2.34	0.60
1:6:959:U:OP2	29:d7:20:LYS:NZ	2.34	0.60
1:6:1491:U:H5'	1:6:1492:A:OP1	2.02	0.60
36:5:198:A:N3	36:5:218:G:O2'	2.33	0.60
36:5:247:C:C2	36:5:248:U:H1'	2.37	0.60
36:5:419:G:N7	92:5:4162:OHX:N3	2.50	0.60
36:5:2181:C:OP1	39:l2:193:ARG:NH2	2.35	0.60
39:l2:52:SER:HB3	39:l2:191:LEU:HD12	1.84	0.60
39:l2:187:HIS:ND1	39:l2:190:ARG:NH1	2.49	0.60
44:l7:229:PHE:C	44:l7:229:PHE:CD1	2.79	0.60
57:n1:132:PRO:O	57:n1:134:GLN:HG2	2.02	0.60
1:2:158:U:O2'	1:2:160:C:OP2	2.18	0.60
1:2:1592:A:H2'	1:2:1593:A:H8	1.66	0.60
11:S9:149:ARG:O	11:S9:151:ASP:N	2.34	0.60
18:C6:34:SER:HB3	18:C6:38:LEU:HD12	1.83	0.60
19:C7:50:ILE:O	19:C7:54:THR:HG23	2.02	0.60
36:1:2221:G:N2	36:1:2224:A:OP2	2.26	0.60
38:4:24:G:OP2	62:N6:13:ARG:HD3	2.01	0.60
46:L9:189:GLU:O	46:L9:191:LEU:N	2.34	0.60
56:N0:77:VAL:HG13	56:N0:126:VAL:HG22	1.84	0.60
74:O8:8:ILE:H	74:O8:8:ILE:HD12	1.66	0.60
1:6:21:U:H2'	1:6:22:A:H8	1.65	0.60
1:6:477:A:OP1	32:e0:31:LYS:HG2	2.02	0.60
2:s0:26:ALA:HB3	2:s0:149:LEU:HB2	1.83	0.60
36:5:830:A:O2'	36:5:1866:C:H2'	2.02	0.60
36:5:2177:G:OP2	39:l2:128:ARG:NH1	2.35	0.60
36:5:2579:G:O6	92:5:4289:OHX:N1	2.35	0.60
36:5:2970:C:H4'	36:5:2971:A:N1	2.16	0.60
40:l3:347:SER:HB3	40:l3:350:ALA:H	1.67	0.60
4:S2:230:TRP:NE1	24:D2:68:ARG:HB3	2.16	0.59
28:D6:78:ALA:O	28:D6:84:VAL:HG22	2.01	0.59
36:1:3230:G:H4'	50:M4:132:LYS:HD3	1.84	0.59
39:L2:201:GLY:HA2	39:L2:204:MET:HG3	1.83	0.59
40:L3:11:HIS:ND1	40:L3:234:GLY:O	2.35	0.59
42:L5:218:ARG:HA	42:L5:221:GLU:OE2	2.02	0.59
18:c6:89:LEU:HG	18:c6:105:LEU:HD23	1.84	0.59
36:5:507:U:H2'	36:5:508:U:C6	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:218:ILE:HG13	40:l3:276:THR:HG23	1.84	0.59
44:l7:88:ARG:HD2	44:l7:90:LYS:O	2.01	0.59
49:m3:2:ALA:N	64:n8:33:GLY:O	2.35	0.59
65:n9:14:ARG:HH12	65:n9:18:ARG:NH1	2.00	0.59
1:2:501:U:O2'	1:2:502:U:H6	1.85	0.59
1:2:938:G:N2	1:2:941:A:OP2	2.31	0.59
17:C5:15:HIS:HB3	17:C5:22:LEU:HD23	1.82	0.59
28:D6:79:ILE:HA	28:D6:84:VAL:HG11	1.83	0.59
36:1:2150:G:H4'	79:Q3:22:LEU:HD21	1.84	0.59
36:1:2726:C:O2'	36:1:2727:A:H2'	2.01	0.59
36:1:2808:A:H4'	36:1:2809:C:O5'	2.01	0.59
36:1:3393:U:H2'	36:1:3394:U:C6	2.37	0.59
40:L3:105:VAL:HG21	40:L3:148:LEU:HD13	1.84	0.59
51:M5:13:LYS:O	51:M5:16:SER:OG	2.19	0.59
1:6:452:A:H3'	1:6:453:U:C5	2.36	0.59
1:6:463:U:OP1	92:6:2305:OHX:N1	2.36	0.59
1:6:950:C:H4'	15:c3:104:ARG:HH22	1.67	0.59
11:s9:110:GLN:NE2	11:s9:126:ARG:HG2	2.17	0.59
20:c8:140:THR:HA	20:c8:143:ARG:HH11	1.67	0.59
26:d4:20:ARG:HE	26:d4:22:GLN:HE21	1.48	0.59
36:5:2560:C:O2	92:5:4289:OHX:N2	2.35	0.59
47:m0:43:VAL:HG21	47:m0:197:VAL:HG13	1.84	0.59
54:m8:165:ILE:HG23	54:m8:167:SER:H	1.67	0.59
61:n5:58:ASP:O	61:n5:62:VAL:HG23	2.02	0.59
1:2:337:G:H3'	13:C1:133:LYS:HB2	1.84	0.59
1:2:418:G:O2'	8:S6:59:GLN:NE2	2.35	0.59
8:S6:141:ILE:HG21	8:S6:153:VAL:HG13	1.83	0.59
18:C6:22:VAL:HG22	18:C6:65:ILE:HD13	1.84	0.59
36:1:2794:G:N7	92:1:4167:OHX:N2	2.50	0.59
41:L4:5:GLN:HA	41:L4:20:LEU:O	2.02	0.59
47:M0:144:ASN:O	47:M0:147:VAL:N	2.31	0.59
50:M4:25:LYS:HE2	50:M4:62:GLN:HA	1.83	0.59
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.14	0.59
1:6:484:C:N4	1:6:503:G:H1	2.00	0.59
1:6:1700:C:O2'	1:6:1701:A:OP1	2.20	0.59
4:s2:133:LYS:O	4:s2:136:VAL:HG13	2.01	0.59
18:c6:82:ARG:HH12	18:c6:114:ARG:HB2	1.67	0.59
33:e1:80:ARG:NH1	33:e1:80:ARG:HB2	2.16	0.59
36:5:1388:U:O4	41:l4:186:LYS:NZ	2.35	0.59
40:l3:224:HIS:HB2	40:l3:270:ARG:HG2	1.84	0.59
51:m5:42:PRO:HG3	51:m5:61:ILE:HG13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:n8:116:GLY:O	64:n8:137:LYS:NZ	2.28	0.59
1:2:1067:C:H5"	3:S1:150:VAL:HG13	1.83	0.59
1:2:1229:G:O2'	1:2:1255:G:N2	2.34	0.59
1:2:1472:C:OP1	7:S5:102:ARG:NH2	2.36	0.59
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.83	0.59
3:S1:154:SER:O	3:S1:154:SER:OG	2.18	0.59
4:S2:44:LEU:HG	4:S2:247:ALA:HB2	1.83	0.59
11:S9:60:LEU:HD23	11:S9:93:LEU:HD11	1.83	0.59
11:S9:109:LEU:HD13	11:S9:129:ILE:HD13	1.84	0.59
24:D2:6:VAL:HG12	24:D2:34:ILE:HD11	1.82	0.59
26:D4:36:SER:O	26:D4:40:LEU:HG	2.01	0.59
36:1:249:U:O2	36:1:250:U:N3	2.29	0.59
36:1:309:U:OP1	72:O6:84:LYS:NZ	2.35	0.59
36:1:1308:A:C8	36:1:1308:A:OP2	2.55	0.59
36:1:2790:A:OP2	54:M8:181:SER:HB3	2.02	0.59
36:1:3048:A:O2'	92:1:4447:OHX:N3	2.35	0.59
37:3:71:G:H2'	37:3:72:A:C8	2.37	0.59
41:L4:11:LEU:HD13	41:L4:159:ILE:HD11	1.84	0.59
51:M5:102:ALA:O	51:M5:106:VAL:HG12	2.03	0.59
71:O5:89:ARG:HG2	71:O5:89:ARG:HH11	1.66	0.59
1:6:1688:U:H3	1:6:1713:G:H1	1.48	0.59
24:d2:106:THR:HG21	24:d2:121:VAL:HG23	1.83	0.59
36:5:1080:A:OP2	42:l5:140:ARG:NH2	2.35	0.59
39:l2:133:TYR:HB3	39:l2:168:VAL:HG12	1.84	0.59
47:m0:12:GLN:NE2	47:m0:128:ARG:HB3	2.18	0.59
53:m7:25:SER:HB3	53:m7:28:ASN:HB2	1.83	0.59
1:2:918:U:H2'	1:2:919:A:C8	2.37	0.59
1:2:1460:A:C8	17:C5:128:HIS:HB3	2.38	0.59
36:1:1308:A:OP2	36:1:1308:A:H8	1.85	0.59
36:1:2227:C:OP1	78:Q2:32:LYS:NZ	2.31	0.59
53:M7:16:SER:HB3	53:M7:149:VAL:HB	1.84	0.59
64:N8:135:GLU:HG2	64:N8:145:VAL:HG21	1.84	0.59
69:O3:42:GLN:HA	69:O3:45:LEU:HG	1.84	0.59
1:6:66:U:H5	8:s6:173:PRO:HG3	1.68	0.59
1:6:454:U:OP1	1:6:455:C:N4	2.30	0.59
6:s4:126:VAL:HG13	6:s4:158:ASP:O	2.03	0.59
16:c4:50:ALA:HB3	16:c4:53:ASP:HB2	1.83	0.59
82:c5:21:ASP:O	82:c5:25:LEU:N	2.35	0.59
36:5:209:A:H4'	36:5:211:A:C8	2.38	0.59
36:5:546:C:O2	36:5:546:C:H2'	2.01	0.59
36:5:3068:U:OP2	55:m9:62:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:46:ASP:OD1	51:m5:50:ARG:NH2	2.36	0.59
1:2:397:A:O3'	10:S8:50:GLY:HA2	2.02	0.59
1:2:768:C:H1'	11:S9:143:ILE:HG21	1.84	0.59
1:2:1291:G:H5'	4:S2:119:LYS:HE2	1.84	0.59
92:2:2074:OHX:N5	92:S2:303:OHX:N6	2.50	0.59
6:S4:192:ILE:HG13	6:S4:243:GLY:HA3	1.83	0.59
14:C2:52:LEU:O	14:C2:85:LYS:NZ	2.36	0.59
27:D5:43:ASP:O	27:D5:46:LYS:N	2.25	0.59
34:SR:267:PRO:HG2	34:SR:269:TYR:CE1	2.36	0.59
36:1:768:C:OP1	49:M3:186:ARG:NH2	2.28	0.59
46:L9:149:ASN:N	46:L9:149:ASN:OD1	2.35	0.59
49:M3:186:ARG:O	49:M3:190:LYS:HB3	2.02	0.59
64:N8:126:LYS:HB3	64:N8:148:ILE:HD13	1.85	0.59
1:6:604:A:OP2	92:6:2246:OHX:N4	2.35	0.59
1:6:922:G:H2'	1:6:923:A:H8	1.68	0.59
1:6:1150:G:O6	92:6:2211:OHX:N5	2.35	0.59
1:6:1324:G:OP2	92:6:2200:OHX:N2	2.36	0.59
92:6:2294:OHX:N1	25:d3:64:PRO:O	2.35	0.59
2:s0:16:LEU:HB3	2:s0:172:LEU:HD11	1.84	0.59
2:s0:50:VAL:HG23	19:c7:109:LEU:HD21	1.83	0.59
36:5:2854:U:P	47:m0:3:ARG:HH22	2.25	0.59
36:5:3343:G:H21	36:5:3362:A:H2	1.50	0.59
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.35	0.59
1:2:478:A:OP1	32:E0:37:ARG:NH1	2.36	0.59
1:2:930:A:OP1	28:D6:32:LYS:NZ	2.25	0.59
1:2:1369:U:O4	92:2:2143:OHX:N5	2.35	0.59
5:S3:22:ASN:O	5:S3:26:THR:OG1	2.18	0.59
6:S4:176:ASP:HB2	6:S4:179:LYS:NZ	2.17	0.59
20:C8:54:LEU:H	20:C8:54:LEU:HD22	1.67	0.59
26:D4:2:SER:N	26:D4:32:ARG:HG3	2.18	0.59
36:1:2503:G:H1'	36:1:2504:U:H5	1.68	0.59
43:L6:31:ARG:NH2	43:L6:81:ALA:O	2.36	0.59
45:L8:94:PHE:CE2	45:L8:200:LEU:HG	2.37	0.59
70:O4:67:LYS:HA	70:O4:70:LYS:HE3	1.85	0.59
1:6:1492:A:O2'	1:6:1493:A:H8	1.84	0.59
3:s1:66:VAL:CG1	16:c4:33:LEU:HB3	2.33	0.59
4:s2:103:VAL:HG22	4:s2:113:LEU:HD23	1.83	0.59
4:s2:139:ILE:HG22	4:s2:141:ARG:HD2	1.85	0.59
6:s4:166:SER:O	6:s4:168:LYS:HG2	2.03	0.59
81:c2:60:VAL:HG22	81:c2:122:VAL:HG22	1.83	0.59
21:c9:84:LYS:HD2	21:c9:94:ILE:HG13	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:d5:47:TYR:CZ	27:d5:51:LEU:HD11	2.38	0.59
36:5:990:U:O4	92:5:4454:OHX:N6	2.35	0.59
36:5:1916:U:O3'	55:m9:85:ARG:NH2	2.36	0.59
36:5:2971:A:H3'	36:5:2971:A:OP2	2.03	0.59
38:8:149:A:H2'	38:8:150:G:C8	2.37	0.59
46:l9:76:ASP:O	46:l9:80:THR:HG22	2.03	0.59
48:m1:166:LYS:C	48:m1:168:ASP:H	2.10	0.59
1:2:1688:U:H2'	1:2:1689:A:C8	2.37	0.59
2:S0:134:LYS:O	2:S0:137:SER:OG	2.21	0.59
3:S1:36:SER:HB3	3:S1:231:LEU:HD22	1.84	0.59
33:E1:108:VAL:HG22	33:E1:114:VAL:HG22	1.84	0.59
36:1:2395:G:H5"	40:L3:255:TRP:CD1	2.38	0.59
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.67	0.59
75:O9:5:LYS:HE3	75:O9:13:MET:HE1	1.85	0.59
5:s3:40:ARG:HG2	22:d0:110:PRO:HB3	1.85	0.59
9:s7:40:PRO:HG2	9:s7:41:LEU:HD23	1.85	0.59
83:sR:52:GLN:HG2	83:sR:53:LYS:H	1.68	0.59
36:5:339:C:OP1	36:5:1380:G:O2'	2.19	0.59
36:5:1389:G:OP2	92:5:4269:OHX:N5	2.35	0.59
36:5:2971:A:H3'	36:5:2971:A:N3	2.18	0.59
41:l4:237:GLN:O	41:l4:246:ARG:HG3	2.02	0.59
1:2:365:G:N7	92:2:2154:OHX:N5	2.50	0.59
9:S7:129:LEU:HD21	9:S7:172:VAL:HG11	1.84	0.59
36:1:651:G:O2'	36:1:1435:A:OP1	2.20	0.59
36:1:655:C:H5"	68:O2:26:HIS:HB2	1.83	0.59
36:1:874:U:OP1	40:L3:241:LYS:HG3	2.02	0.59
36:1:1615:C:OP1	92:1:4444:OHX:N3	2.36	0.59
92:1:4192:OHX:N4	44:L7:217:PRO:HA	2.18	0.59
92:1:4348:OHX:N4	65:N9:6:ASN:OD1	2.36	0.59
2:s0:71:GLU:O	2:s0:96:THR:HG22	2.02	0.59
36:5:1080:A:P	42:l5:140:ARG:HH21	2.26	0.59
36:5:1947:G:O6	92:5:4460:OHX:N3	2.35	0.59
36:5:3041:U:H2'	36:5:3042:U:C6	2.38	0.59
40:l3:293:ASN:HB2	40:l3:304:THR:HA	1.84	0.59
78:q2:105:GLN:HB2	78:q2:106:PHE:CD1	2.37	0.59
1:2:66:U:O4	8:S6:158:ILE:HG21	2.02	0.59
1:2:738:G:O6	92:2:2145:OHX:N4	2.36	0.59
1:2:1600:A:O2'	1:2:1602:C:N4	2.35	0.59
36:1:2213:A:H2'	36:1:2214:A:C8	2.37	0.59
47:M0:42:THR:HG23	47:M0:45:GLU:HB2	1.85	0.59
1:6:417:A:H5'	1:6:418:G:C5	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:755:A:H2'	1:6:756:A:H8	1.64	0.59
8:s6:144:PHE:HZ	87:n4:90:ILE:HD13	1.68	0.59
26:d4:42:GLU:HG3	26:d4:52:LYS:HD2	1.85	0.59
36:5:1120:A:H2'	36:5:1121:U:C6	2.38	0.59
36:5:1235:U:C4'	36:5:1236:G:H5'	2.31	0.59
36:5:1764:U:H3'	36:5:1765:U:H5"	1.84	0.59
36:5:3243:A:C8	52:m6:156:LEU:HD13	2.37	0.59
44:l7:121:LYS:HB2	57:n1:133:ALA:HB3	1.84	0.59
53:m7:69:ARG:HG2	53:m7:79:THR:CG2	2.31	0.59
55:m9:27:ASN:O	92:m9:202:OHX:N3	2.36	0.59
62:n6:57:LEU:HB3	62:n6:105:VAL:HG12	1.84	0.59
1:2:711:U:H1'	1:2:712:G:H5'	1.84	0.58
1:2:767:U:C6	11:S9:141:VAL:HA	2.36	0.58
1:2:1474:G:P	7:S5:109:LYS:HE2	2.43	0.58
6:S4:121:TYR:CD2	6:S4:161:LYS:HE3	2.38	0.58
36:1:1235:U:H4'	36:1:1236:G:H5'	1.85	0.58
36:1:3326:G:H2'	36:1:3327:G:H8	1.68	0.58
42:L5:233:ALA:O	42:L5:235:SER:N	2.36	0.58
59:N3:32:ARG:HB3	59:N3:64:LYS:O	2.04	0.58
59:N3:57:MET:HE1	59:N3:105:PRO:HA	1.85	0.58
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	1.83	0.58
70:O4:99:LYS:HG2	70:O4:103:LYS:HE3	1.84	0.58
1:6:397:A:H5"	10:s8:51:GLY:H	1.66	0.58
1:6:987:G:O6	92:6:2215:OHX:N4	2.36	0.58
3:s1:30:PHE:HB3	3:s1:96:LEU:HD22	1.85	0.58
15:c3:22:ALA:HB1	15:c3:23:PRO:HA	1.85	0.58
36:5:1366:A:C2	36:5:1367:G:C4	2.91	0.58
36:5:1486:G:N2	70:o4:6:THR:HG22	2.18	0.58
44:l7:219:LYS:O	44:l7:228:SER:HB2	2.02	0.58
46:l9:13:PRO:HG2	46:l9:16:VAL:HG21	1.86	0.58
46:l9:87:LYS:HZ3	46:l9:191:LEU:HD21	1.66	0.58
66:o0:78:GLY:HA2	66:o0:87:VAL:HG13	1.85	0.58
1:2:205:U:O4	92:2:2114:OHX:N3	2.36	0.58
9:S7:35:LYS:HZ2	9:S7:39:ARG:HD2	1.68	0.58
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.02	0.58
36:1:1134:G:O2'	36:1:2642:A:N3	2.31	0.58
36:1:1942:U:OP2	55:M9:74:ARG:NH1	2.34	0.58
36:1:3276:G:H1	69:O3:60:ARG:HH12	1.49	0.58
46:L9:48:VAL:HG11	46:L9:52:LEU:HD13	1.85	0.58
49:M3:9:ILE:HD13	64:N8:52:TYR:CE1	2.38	0.58
52:M6:84:LEU:HD13	52:M6:102:LEU:HD21	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:N8:24:LYS:HD2	64:N8:26:ARG:NH2	2.18	0.58
66:O0:16:LEU:HD11	66:O0:97:ASP:HB3	1.85	0.58
1:6:755:A:O2'	1:6:756:A:O4'	2.09	0.58
1:6:1699:G:H22	1:6:1702:A:H5"	1.68	0.58
9:s7:126:LEU:HD13	9:s7:173:TYR:CD2	2.38	0.58
36:5:1615:C:H2'	36:5:1616:U:C6	2.39	0.58
38:8:72:A:N3	38:8:88:A:O2'	2.36	0.58
52:m6:110:PRO:O	52:m6:111:PRO:C	2.46	0.58
56:n0:42:TRP:O	56:n0:46:GLN:HG3	2.03	0.58
1:2:751:G:H2'	1:2:752:A:H8	1.68	0.58
1:2:1450:U:H2'	1:2:1451:C:C6	2.38	0.58
1:2:1504:G:H2'	1:2:1505:A:C8	2.39	0.58
18:C6:47:LYS:NZ	18:C6:114:ARG:HG2	2.16	0.58
36:1:1577:G:H2'	36:1:1578:C:O4'	2.03	0.58
36:1:1733:G:O5'	92:1:4500:OHX:N6	2.37	0.58
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	1.85	0.58
36:5:1236:G:N2	36:5:1244:A:OP1	2.33	0.58
36:5:3254:G:O6	92:5:4558:OHX:N4	2.35	0.58
38:8:74:U:O2	92:8:226:OHX:N3	2.36	0.58
53:m7:125:GLN:HB2	53:m7:141:SER:HB2	1.85	0.58
1:2:95:G:HO2'	1:2:460:A:HO2'	1.50	0.58
1:2:484:C:H42	1:2:503:G:H22	1.51	0.58
1:2:912:U:H4'	1:2:913:G:H3'	1.86	0.58
1:2:1402:G:H2'	1:2:1403:C:C6	2.39	0.58
1:2:1521:G:O2'	1:2:1523:G:OP2	2.15	0.58
1:2:1592:A:H2'	1:2:1593:A:C8	2.38	0.58
1:2:1597:A:OP1	31:D9:19:ARG:NH2	2.36	0.58
12:C0:3:MET:HE1	12:C0:45:ALA:HB2	1.83	0.58
14:C2:30:VAL:HB	14:C2:132:GLU:HG3	1.85	0.58
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.69	0.58
36:1:3155:U:H3'	36:1:3156:U:C4'	2.33	0.58
92:1:4105:OHX:N5	92:1:4501:OHX:N3	2.52	0.58
38:4:37:A:H5"	38:4:39:G:O4'	2.03	0.58
80:c0:54:TYR:CE2	80:c0:75:TYR:HB2	2.38	0.58
26:d4:84:LYS:HD3	26:d4:85:PHE:CE2	2.38	0.58
38:8:77:A:OP2	92:8:226:OHX:N1	2.36	0.58
42:l5:22:ARG:HA	42:l5:25:GLU:HG3	1.85	0.58
52:m6:110:PRO:O	52:m6:112:TYR:N	2.36	0.58
78:q2:17:CYS:SG	78:q2:77:CYS:CB	2.91	0.58
78:q2:28:TYR:HB3	78:q2:69:VAL:HB	1.84	0.58
1:2:702:G:O2'	1:2:703:G:H8	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1122:G:N2	1:2:1125:A:OP2	2.35	0.58
11:S9:92:LYS:HA	11:S9:92:LYS:HE3	1.86	0.58
25:D3:42:PRO:O	25:D3:79:ASN:ND2	2.36	0.58
33:E1:136:LYS:C	33:E1:138:ARG:H	2.12	0.58
36:1:410:U:O4	92:1:4290:OHX:N2	2.37	0.58
36:1:551:A:O2'	36:1:552:G:O5'	2.21	0.58
36:1:1145:G:OP1	68:O2:44:ARG:NH1	2.37	0.58
36:1:2683:U:H2'	36:1:2684:C:H6	1.68	0.58
36:1:3343:G:O6	92:1:4411:OHX:N6	2.36	0.58
45:L8:240:ASN:HA	45:L8:243:GLN:HB2	1.84	0.58
1:6:9:U:O4	92:6:2241:OHX:N3	2.37	0.58
1:6:947:U:H2'	1:6:948:G:H8	1.68	0.58
1:6:1650:U:H2'	1:6:1651:A:C8	2.38	0.58
11:s9:66:ASP:HB3	11:s9:69:ARG:HB3	1.84	0.58
20:c8:108:LYS:HA	20:c8:111:ASP:HB2	1.86	0.58
36:5:1307:G:H5"	52:m6:60:LYS:HE2	1.86	0.58
36:5:1701:C:H2'	36:5:1702:U:O4'	2.03	0.58
36:5:2180:G:H2'	36:5:2181:C:C6	2.39	0.58
36:5:3295:A:H2'	36:5:3296:A:C8	2.39	0.58
86:m2:23:UNK:O	86:m2:28:UNK:N	2.37	0.58
75:o9:24:PRO:HB2	75:o9:27:ILE:HD12	1.85	0.58
1:2:108:A:H2'	1:2:109:G:C8	2.38	0.58
1:2:1031:U:H4'	1:2:1032:G:OP2	2.03	0.58
3:S1:76:SER:OG	3:S1:78:ASP:OD1	2.20	0.58
3:S1:83:LYS:NZ	16:C4:116:GLU:OE2	2.23	0.58
12:C0:31:LYS:HE3	12:C0:36:ASP:OD1	2.03	0.58
36:1:44:U:OP1	51:M5:84:PRO:HG2	2.04	0.58
36:1:58:G:OP1	51:M5:157:LYS:NZ	2.30	0.58
36:1:1623:G:OP2	92:1:4275:OHX:N1	2.37	0.58
36:1:2913:C:OP2	92:1:4283:OHX:N4	2.37	0.58
36:1:3020:U:O4	92:1:4223:OHX:N4	2.36	0.58
36:1:3299:A:H61	36:1:3315:G:H1	1.51	0.58
37:3:93:C:O2'	37:3:94:C:H5'	2.03	0.58
40:L3:283:TYR:HB2	40:L3:323:MET:HE2	1.86	0.58
46:L9:41:ILE:HD11	46:L9:67:ALA:HB1	1.86	0.58
1:6:1339:C:O2'	1:6:1341:A:N7	2.36	0.58
8:s6:135:PRO:HB2	8:s6:141:ILE:HG12	1.85	0.58
23:d1:35:ASN:OD1	23:d1:52:THR:HB	2.03	0.58
28:d6:90:GLU:H	28:d6:90:GLU:CD	2.10	0.58
36:5:2239:G:O6	92:5:4465:OHX:N5	2.35	0.58
36:5:2429:G:OP2	92:5:4303:OHX:N5	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3078:U:H4'	36:5:3079:U:O5'	2.04	0.58
38:8:155:A:H2'	38:8:156:U:O4'	2.03	0.58
57:n1:68:THR:HG22	57:n1:71:SER:O	2.03	0.58
71:o5:86:ARG:HG3	71:o5:90:ARG:NH2	2.19	0.58
1:2:1504:G:C6	1:2:1505:A:C6	2.92	0.58
92:2:2077:OHX:N3	92:2:2203:OHX:N5	2.52	0.58
10:S8:152:ILE:HD13	10:S8:157:GLU:OE1	2.04	0.58
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.85	0.58
34:SR:93:ASP:HB2	34:SR:100:TYR:CE1	2.39	0.58
36:1:155:G:H5"	36:1:156:G:C8	2.38	0.58
36:1:534:U:O2	56:N0:146:LYS:HA	2.04	0.58
50:M4:36:VAL:HB	50:M4:45:LEU:HD23	1.86	0.58
63:N7:97:SER:HB2	63:N7:99:GLU:HG3	1.86	0.58
1:6:976:G:O6	92:6:2176:OHX:N6	2.36	0.58
36:5:273:A:OP1	92:5:4568:OHX:N4	2.36	0.58
36:5:1724:U:H1'	36:5:1725:C:C6	2.39	0.58
36:5:2244:A:H5"	39:l2:243:THR:OG1	2.04	0.58
43:l6:3:ALA:HB2	68:o2:77:ALA:HB2	1.84	0.58
44:l7:110:ARG:NH2	54:m8:3:ILE:HD12	2.19	0.58
1:2:1600:A:HO2'	1:2:1602:C:N4	2.01	0.58
6:S4:19:LEU:HD11	6:S4:108:ARG:HD2	1.86	0.58
6:S4:45:ILE:HA	6:S4:61:VAL:HG11	1.84	0.58
14:C2:89:ILE:HG12	14:C2:90:LYS:H	1.68	0.58
21:C9:6:VAL:HG13	21:C9:66:TYR:CE1	2.39	0.58
26:D4:35:VAL:O	26:D4:36:SER:HB3	2.02	0.58
36:1:1430:U:H2'	64:N8:9:ARG:NH2	2.18	0.58
36:1:3298:C:OP1	92:1:4130:OHX:N3	2.36	0.58
48:M1:17:LEU:HD21	48:M1:19:LEU:HD21	1.86	0.58
49:M3:153:ASP:OD1	49:M3:157:ARG:NH2	2.36	0.58
71:O5:101:THR:HG22	71:O5:104:GLN:H	1.69	0.58
24:d2:18:GLU:OE1	24:d2:69:LEU:HB3	2.04	0.58
28:d6:3:LYS:HD3	28:d6:6:ALA:HA	1.86	0.58
36:5:1070:U:C4	36:5:1071:U:C4	2.92	0.58
40:l3:308:MET:HE2	40:l3:372:THR:C	2.28	0.58
43:l6:38:THR:HA	43:l6:90:LYS:HG3	1.86	0.58
44:l7:228:SER:HA	44:l7:232:ARG:NH2	2.19	0.58
85:l8:161:GLU:HA	85:l8:164:VAL:HG22	1.84	0.58
65:n9:14:ARG:HH12	65:n9:18:ARG:HH11	1.52	0.58
1:2:1166:A:H5"	7:S5:101:GLY:H	1.69	0.58
3:S1:129:THR:HB	3:S1:180:THR:HA	1.84	0.58
11:S9:85:VAL:HG12	11:S9:99:LEU:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:46:VAL:HG22	20:C8:72:ILE:HG22	1.86	0.58
25:D3:91:GLY:O	25:D3:93:LEU:N	2.37	0.58
36:1:1540:U:OP1	92:1:4253:OHX:N1	2.37	0.58
38:4:63:G:O3'	71:O5:49:LYS:NZ	2.36	0.58
41:L4:265:GLU:OE1	41:L4:265:GLU:N	2.32	0.58
56:N0:11:GLY:HA2	56:N0:59:VAL:HG23	1.86	0.58
61:N5:73:MET:HA	61:N5:73:MET:HE3	1.84	0.58
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.02	0.58
1:6:539:G:H8	1:6:539:G:OP2	1.86	0.58
3:s1:113:MET:HE2	3:s1:142:PHE:CE2	2.39	0.58
13:c1:18:HIS:O	92:c1:201:OHX:N3	2.37	0.58
36:5:3159:C:H2'	36:5:3160:U:C6	2.39	0.58
40:l3:35:ASP:HA	40:l3:184:ASN:ND2	2.18	0.58
46:l9:126:VAL:HG21	46:l9:161:LEU:HA	1.85	0.58
53:m7:27:LYS:HG2	53:m7:63:PHE:CG	2.39	0.58
58:n2:90:ARG:O	58:n2:91:ASP:HB2	2.03	0.58
36:1:45:A:OP1	92:Q2:505:OHX:N1	2.37	0.58
36:1:1064:A:H4'	36:1:1065:A:O5'	2.03	0.58
36:1:1211:U:H2'	36:1:1212:A:C8	2.38	0.58
36:1:2875:U:C4	92:1:4446:OHX:N6	2.72	0.58
36:1:3148:U:O4	92:1:4347:OHX:N2	2.37	0.58
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.38	0.58
52:M6:62:THR:H	52:M6:69:GLY:HA3	1.69	0.58
61:N5:80:ASN:ND2	61:N5:126:LEU:HB2	2.18	0.58
1:6:658:C:N4	1:6:673:A:N1	2.52	0.58
2:s0:175:TYR:HE1	2:s0:197:ILE:HG22	1.69	0.58
36:5:3139:A:OP2	40:l3:30:LYS:NZ	2.35	0.58
38:8:63:G:O2'	71:o5:49:LYS:NZ	2.24	0.58
38:8:95:G:OP2	73:o7:72:ARG:NH1	2.37	0.58
88:p0:102:SER:OG	88:p0:103:ASN:N	2.37	0.58
25:D3:137:LYS:O	25:D3:138:GLU:HB2	2.02	0.57
28:D6:79:ILE:HA	28:D6:84:VAL:CG1	2.34	0.57
36:1:1498:A:H2'	36:1:1499:C:C6	2.39	0.57
36:1:2403:G:N2	36:1:2404:A:H62	2.01	0.57
62:N6:91:ASN:O	62:N6:93:ALA:N	2.34	0.57
68:O2:101:SER:O	68:O2:105:ARG:HG3	2.03	0.57
78:Q2:46:LYS:O	92:Q2:505:OHX:N6	2.37	0.57
1:6:824:G:N7	92:6:2339:OHX:N5	2.52	0.57
1:6:1524:A:H2'	1:6:1525:A:C8	2.39	0.57
7:s5:41:LYS:HG2	7:s5:69:PHE:CZ	2.39	0.57
10:s8:101:ILE:HD13	10:s8:168:CYS:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:4:ARG:NH1	40:l3:6:TYR:O	2.37	0.57
42:l5:290:ILE:HD11	47:m0:206:LEU:HD11	1.85	0.57
44:l7:86:VAL:HG21	44:l7:127:LEU:HD21	1.85	0.57
46:l9:77:ASN:HA	46:l9:80:THR:HG23	1.86	0.57
47:m0:61:SER:OG	47:m0:63:GLU:HG2	2.04	0.57
52:m6:121:PRO:HA	52:m6:124:LEU:HD22	1.86	0.57
63:n7:128:GLN:O	63:n7:130:PHE:N	2.37	0.57
65:n9:38:LYS:HB3	65:n9:41:ARG:HH12	1.69	0.57
72:o6:62:ARG:NH1	72:o6:94:ILE:HD11	2.19	0.57
1:2:1034:C:HO2'	24:D2:2:THR:N	2.02	0.57
1:2:1535:U:O2'	1:2:1536:G:N3	2.35	0.57
13:C1:91:LEU:HB3	13:C1:100:TYR:HB3	1.86	0.57
35:SM:25:ILE:HG12	37:3:39:C:H5'	1.86	0.57
36:1:1565:G:H1'	36:1:1575:A:C2	2.39	0.57
36:1:1732:U:H3'	92:1:4500:OHX:N6	2.20	0.57
36:1:1733:G:H3'	92:1:4500:OHX:N5	2.19	0.57
36:1:2645:G:OP2	47:M0:117:GLY:HA2	2.03	0.57
36:1:3078:U:H4'	36:1:3079:U:O5'	2.04	0.57
38:4:126:A:O2'	38:4:128:U:OP1	2.21	0.57
42:L5:76:ALA:CB	42:L5:109:THR:HG22	2.34	0.57
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	2.03	0.57
1:6:1333:C:O4'	5:s3:162:GLN:HG3	2.04	0.57
1:6:1462:G:N7	20:c8:143:ARG:NH2	2.50	0.57
1:6:1726:G:N7	92:6:2242:OHX:N5	2.52	0.57
1:6:1766:A:H5"	92:6:2221:OHX:N6	2.19	0.57
2:s0:109:ASN:H	4:s2:64:LYS:NZ	2.03	0.57
21:c9:50:ALA:HA	21:c9:53:TRP:HD1	1.69	0.57
22:d0:41:ILE:HG13	22:d0:107:THR:HG21	1.85	0.57
33:e1:80:ARG:HB2	33:e1:80:ARG:HH11	1.69	0.57
36:5:2261:G:O6	92:5:4205:OHX:N5	2.37	0.57
39:l2:14:SER:OG	39:l2:15:ILE:N	2.37	0.57
42:l5:34:LYS:HA	57:n1:27:LEU:HD11	1.86	0.57
42:l5:177:GLU:O	42:l5:179:ARG:N	2.37	0.57
47:m0:77:THR:O	47:m0:81:GLY:N	2.32	0.57
49:m3:100:ARG:O	49:m3:101:ARG:HB3	2.04	0.57
2:S0:26:ALA:HB2	2:S0:165:ARG:HH21	1.70	0.57
2:S0:168:HIS:HB3	2:S0:203:PHE:CZ	2.39	0.57
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	1.84	0.57
12:C0:16:PHE:HD2	12:C0:76:LEU:HD23	1.69	0.57
13:C1:94:ILE:HG12	25:D3:16:ARG:HD2	1.87	0.57
30:D8:10:ALA:HB1	30:D8:30:VAL:HB	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:133:VAL:HB	34:SR:142:ALA:HB3	1.86	0.57
34:SR:282:SER:H	34:SR:285:ALA:HB3	1.68	0.57
36:1:1033:U:H2'	36:1:1034:U:C6	2.40	0.57
40:L3:313:HIS:O	40:L3:333:LYS:HD2	2.04	0.57
54:M8:44:PHE:CD1	54:M8:139:ILE:HD11	2.40	0.57
63:N7:104:PRO:O	63:N7:108:GLU:HG3	2.05	0.57
73:O7:60:GLY:O	92:O7:108:OHX:N6	2.38	0.57
1:6:827:C:H2'	1:6:828:U:H6	1.68	0.57
1:6:891:A:H2'	1:6:892:A:C8	2.39	0.57
1:6:982:U:OP1	92:6:2172:OHX:N2	2.37	0.57
1:6:1218:G:O4'	1:6:1444:A:N6	2.37	0.57
2:s0:66:ALA:HB1	23:d1:50:TYR:HD1	1.69	0.57
3:s1:62:LYS:O	3:s1:88:VAL:HB	2.03	0.57
6:s4:10:LYS:HZ3	11:s9:2:PRO:HB3	1.69	0.57
11:s9:34:PHE:HD1	11:s9:111:THR:HG21	1.69	0.57
82:c5:123:TYR:OH	20:c8:126:ARG:NH1	2.31	0.57
26:d4:58:PHE:CE2	26:d4:72:PHE:HB3	2.40	0.57
29:d7:2:VAL:O	29:d7:3:LEU:HB2	2.04	0.57
36:5:107:A:OP1	49:m3:39:ARG:NH1	2.37	0.57
36:5:3379:C:H4'	40:l3:315:GLY:HA2	1.85	0.57
36:5:3383:G:H2'	36:5:3384:U:C6	2.38	0.57
40:l3:313:HIS:O	40:l3:333:LYS:HE3	2.04	0.57
46:l9:137:SER:HB3	46:l9:140:VAL:HG13	1.85	0.57
63:n7:46:ILE:HG12	63:n7:49:TYR:CE1	2.39	0.57
1:2:97:C:H2'	1:2:98:U:C6	2.39	0.57
1:2:1087:A:H2'	1:2:1088:A:C8	2.39	0.57
92:2:2085:OHX:N3	35:SM:99:LYS:O	2.35	0.57
8:S6:186:ARG:O	8:S6:190:GLN:HG2	2.04	0.57
15:C3:62:GLN:HB2	15:C3:65:VAL:HG23	1.86	0.57
24:D2:105:THR:HG23	24:D2:110:ILE:HG12	1.85	0.57
25:D3:107:PHE:CD2	25:D3:114:LYS:HB2	2.40	0.57
36:1:2532:U:H3	36:1:2547:A:H61	1.52	0.57
36:1:3276:G:OP1	36:1:3276:G:H4'	2.03	0.57
36:1:3393:U:H2'	36:1:3394:U:H6	1.69	0.57
92:1:4231:OHX:N4	92:1:4440:OHX:N3	2.52	0.57
42:L5:105:ILE:O	42:L5:109:THR:HG23	2.04	0.57
1:6:357:G:OP2	92:6:2171:OHX:N3	2.37	0.57
1:6:653:C:N4	1:6:677:G:H1	2.03	0.57
1:6:730:G:N7	92:6:2298:OHX:N3	2.51	0.57
1:6:961:U:H2'	1:6:962:C:H6	1.70	0.57
1:6:1241:G:H5"	82:c5:102:PHE:HZ	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:74:VAL:HG23	2:s0:118:PRO:HB3	1.85	0.57
6:s4:93:ASP:O	6:s4:95:THR:N	2.34	0.57
26:d4:44:LEU:HA	26:d4:47:VAL:HG13	1.86	0.57
36:5:2314:U:H4'	36:5:2314:U:OP2	2.03	0.57
36:5:2771:U:O2'	36:5:2772:C:O4'	2.16	0.57
39:l2:70:ARG:HD2	39:l2:72:ARG:NE	2.19	0.57
85:l8:68:ARG:O	85:l8:69:LEU:HB2	2.04	0.57
85:l8:238:LEU:HB3	85:l8:242:ALA:HB3	1.86	0.57
52:m6:79:ILE:HG21	52:m6:138:LEU:HD11	1.86	0.57
59:n3:89:ASP:OD1	59:n3:91:VAL:HG12	2.04	0.57
65:n9:24:PRO:HG2	65:n9:26:THR:HG22	1.85	0.57
88:p0:43:LYS:HA	88:p0:46:ARG:HG2	1.85	0.57
1:2:1642:G:O3'	77:Q1:9:ARG:NH2	2.37	0.57
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.87	0.57
18:C6:97:VAL:CG2	18:C6:98:ASP:H	2.18	0.57
20:C8:91:ASP:O	20:C8:92:ILE:HB	2.04	0.57
36:1:1355:A:H4'	36:1:1356:U:O5'	2.02	0.57
36:1:1495:U:H5	36:1:1835:A:N1	2.02	0.57
45:L8:162:LEU:HA	51:M5:7:LEU:HD11	1.86	0.57
54:M8:26:LEU:O	54:M8:30:VAL:HG23	2.03	0.57
1:6:1011:G:OP2	92:6:2216:OHX:N3	2.38	0.57
4:s2:83:ILE:HA	4:s2:99:LYS:O	2.04	0.57
19:c7:24:LEU:HB2	19:c7:58:MET:HE3	1.86	0.57
33:e1:90:LYS:HB2	33:e1:93:HIS:NE2	2.20	0.57
36:5:191:U:H2'	36:5:192:C:C6	2.40	0.57
36:5:274:G:O6	92:5:4322:OHX:N1	2.38	0.57
36:5:2737:C:H4'	57:n1:68:THR:OG1	2.03	0.57
36:5:3206:C:N3	50:m4:13:ARG:NH2	2.53	0.57
41:l4:327:LEU:HA	44:l7:166:ASN:HD21	1.67	0.57
43:l6:3:ALA:HB1	68:o2:75:LEU:HD13	1.86	0.57
86:m2:126:UNK:O	86:m2:130:UNK:N	2.38	0.57
56:n0:155:ARG:NH2	56:n0:172:TYR:H	2.02	0.57
57:n1:138:SER:C	57:n1:139:ARG:HG3	2.28	0.57
67:o1:53:PRO:O	67:o1:57:GLN:HG3	2.05	0.57
1:2:1065:A:H2	3:S1:146:GLN:HE22	1.53	0.57
1:2:1483:A:C6	1:2:1484:G:C6	2.93	0.57
2:S0:9:LEU:HD23	2:S0:54:TRP:CG	2.39	0.57
7:S5:62:VAL:HG13	7:S5:89:ILE:HG21	1.85	0.57
13:C1:57:LYS:HD3	13:C1:131:ILE:HG23	1.85	0.57
36:1:621:A:O2'	92:1:4415:OHX:N3	2.38	0.57
36:1:2347:U:O4	92:1:4126:OHX:N3	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:152:VAL:HG23	41:L4:172:VAL:HG21	1.85	0.57
41:L4:274:TYR:HE1	41:L4:276:LEU:HD23	1.68	0.57
78:Q2:48:SER:O	92:Q2:505:OHX:N6	2.38	0.57
1:6:591:A:H2'	1:6:592:A:C8	2.38	0.57
30:d8:10:ALA:HB1	30:d8:30:VAL:HB	1.87	0.57
36:5:2823:G:N7	92:5:4210:OHX:N2	2.52	0.57
36:5:3003:G:P	40:l3:26:ARG:HH22	2.27	0.57
85:l8:136:LEU:HD22	51:m5:3:ALA:HB2	1.87	0.57
1:2:1600:A:H4'	1:2:1601:G:OP1	2.03	0.57
24:D2:27:ILE:HG12	24:D2:61:ILE:HB	1.85	0.57
25:D3:125:VAL:HG12	25:D3:126:LYS:HG3	1.86	0.57
27:D5:41:ILE:HG23	27:D5:42:LEU:H	1.67	0.57
48:M1:139:THR:O	48:M1:139:THR:OG1	2.22	0.57
49:M3:76:THR:HG22	49:M3:101:ARG:HB3	1.86	0.57
53:M7:116:HIS:HB3	53:M7:149:VAL:HG13	1.86	0.57
1:6:52:U:H2'	1:6:53:G:C8	2.39	0.57
1:6:1182:U:O4	92:c5:202:OHX:N4	2.37	0.57
1:6:1330:G:H21	19:c7:8:THR:HG21	1.70	0.57
1:6:1726:G:O6	92:6:2242:OHX:N2	2.37	0.57
13:c1:124:THR:HB	13:c1:141:LYS:HB3	1.85	0.57
20:c8:140:THR:HA	20:c8:143:ARG:NH1	2.20	0.57
21:c9:23:GLN:HG3	21:c9:55:TYR:CE2	2.39	0.57
22:d0:104:THR:HG22	22:d0:116:VAL:HG21	1.87	0.57
24:d2:53:ILE:HD13	29:d7:24:LEU:HD11	1.85	0.57
33:e1:86:THR:O	33:e1:87:THR:OG1	2.22	0.57
47:m0:192:ASP:HA	47:m0:197:VAL:HG12	1.85	0.57
53:m7:126:ARG:HA	53:m7:140:GLU:HG2	1.85	0.57
56:n0:6:GLU:OE1	56:n0:99:ARG:NH2	2.31	0.57
63:n7:85:TYR:HE2	63:n7:129:TRP:CE2	2.22	0.57
2:S0:150:ASP:OD1	2:S0:165:ARG:NH2	2.37	0.57
6:S4:206:ASP:HB2	6:S4:222:LEU:HD12	1.87	0.57
16:C4:85:ALA:N	16:C4:119:THR:HG22	2.18	0.57
30:D8:12:VAL:HG22	30:D8:28:VAL:HG11	1.86	0.57
36:1:542:G:H2'	36:1:543:C:C6	2.39	0.57
36:1:805:G:H1'	41:L4:73:ARG:NH1	2.20	0.57
42:L5:40:HIS:CE1	42:L5:42:ALA:HB3	2.40	0.57
47:M0:16:PRO:O	47:M0:18:PRO:HD3	2.05	0.57
1:6:1508:U:O4	92:6:2149:OHX:N4	2.37	0.57
2:s0:84:ARG:HD3	2:s0:203:PHE:O	2.05	0.57
3:s1:113:MET:HE2	3:s1:142:PHE:HE2	1.70	0.57
5:s3:164:VAL:O	5:s3:168:ILE:HG13	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:c5:92:SER:HB2	82:c5:107:ILE:HD11	1.86	0.57
29:d7:61:THR:OG1	29:d7:62:ILE:N	2.38	0.57
36:5:2812:C:H2'	36:5:2813:A:H8	1.70	0.57
36:5:2880:U:H1'	40:l3:250:ALA:HB3	1.87	0.57
36:5:3280:U:O2'	36:5:3281:U:H5"	2.05	0.57
36:5:3294:A:H5'	40:l3:128:LYS:HG3	1.86	0.57
38:8:135:G:OP2	61:n5:56:ARG:NH2	2.38	0.57
42:l5:41:LYS:HB2	57:n1:68:THR:O	2.04	0.57
42:l5:61:ILE:HG23	42:l5:79:TYR:CE1	2.39	0.57
44:l7:191:VAL:HG12	44:l7:192:GLY:H	1.69	0.57
47:m0:177:ASP:O	47:m0:180:GLU:N	2.38	0.57
69:o3:6:ARG:NH1	69:o3:8:TYR:O	2.36	0.57
1:2:647:G:N2	1:2:687:G:H22	2.03	0.57
11:S9:110:GLN:NE2	11:S9:126:ARG:HG2	2.19	0.57
12:C0:80:LEU:O	12:C0:82:LEU:N	2.37	0.57
36:1:1537:A:OP2	92:1:4401:OHX:N2	2.38	0.57
36:1:2984:C:H2'	36:1:2985:C:H6	1.69	0.57
36:1:3166:C:H42	36:1:3284:G:H1	1.51	0.57
38:4:79:A:H2'	38:4:80:A:H1'	1.86	0.57
40:L3:2:SER:O	40:L3:3:HIS:HB3	2.05	0.57
1:6:959:U:H4'	15:c3:16:ILE:HD12	1.86	0.57
1:6:961:U:H2'	1:6:962:C:C6	2.40	0.57
1:6:1227:A:O2'	1:6:1228:G:OP2	2.19	0.57
1:6:1559:A:H5"	20:c8:135:GLY:HA3	1.87	0.57
36:5:495:G:H2'	36:5:496:C:O4'	2.05	0.57
36:5:792:G:N7	92:5:4456:OHX:N2	2.52	0.57
36:5:2977:G:OP1	92:5:4416:OHX:N4	2.38	0.57
36:5:3115:C:OP1	46:l9:62:ARG:NH2	2.37	0.57
37:7:121:U:OP2	42:l5:265:TYR:OH	2.18	0.57
40:l3:41:VAL:HA	40:l3:185:GLY:CA	2.30	0.57
42:l5:110:LEU:HA	42:l5:113:LEU:HB2	1.86	0.57
70:o4:65:VAL:HG12	70:o4:70:LYS:HE2	1.87	0.57
1:2:649:U:O2'	1:2:650:U:O5'	2.18	0.57
1:2:1752:U:OP2	92:2:2104:OHX:N2	2.38	0.57
3:S1:34:ALA:HB2	3:S1:43:VAL:HG23	1.87	0.57
3:S1:111:ARG:HG3	28:D6:68:TYR:HB2	1.85	0.57
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.39	0.57
6:S4:179:LYS:N	6:S4:194:THR:O	2.37	0.57
36:1:284:A:OP2	78:Q2:41:ARG:NH1	2.35	0.57
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.34	0.57
36:1:1592:G:OP2	70:O4:37:LYS:NZ	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3242:G:N7	40:L3:150:ARG:HD2	2.20	0.57
57:N1:86:GLU:OE1	57:N1:88:ARG:NH1	2.38	0.57
1:6:530:C:O2	26:d4:61:ARG:NH2	2.38	0.57
1:6:1670:G:N7	92:6:2312:OHX:N4	2.53	0.57
3:s1:103:MET:HE1	3:s1:212:VAL:HG22	1.86	0.57
3:s1:178:GLY:O	3:s1:179:SER:HB2	2.04	0.57
4:s2:56:ILE:HA	4:s2:61:LEU:HD12	1.87	0.57
16:c4:11:SER:OG	16:c4:12:GLN:N	2.38	0.57
36:5:1750:A:H4'	36:5:1751:G:H5'	1.86	0.57
37:7:91:G:H2'	37:7:92:A:H8	1.69	0.57
72:o6:62:ARG:HH12	72:o6:94:ILE:HD11	1.67	0.57
4:S2:227:PRO:HA	4:S2:230:TRP:CD1	2.40	0.56
9:S7:4:PRO:HA	9:S7:7:LYS:HD2	1.86	0.56
36:1:496:C:H2'	36:1:497:C:O4'	2.04	0.56
36:1:2988:C:O2	40:L3:266:ARG:NH1	2.38	0.56
36:1:3192:U:O4	92:1:4373:OHX:N1	2.38	0.56
39:L2:30:ARG:NH2	39:L2:33:ASP:OD2	2.38	0.56
42:L5:60:ILE:HB	42:L5:80:SER:HB2	1.87	0.56
48:M1:108:GLU:HA	48:M1:122:ILE:HG22	1.86	0.56
55:M9:21:LYS:O	55:M9:53:LYS:HB2	2.05	0.56
59:N3:30:GLY:HA3	59:N3:66:LYS:HD2	1.87	0.56
59:N3:90:GLY:O	60:N4:16:GLY:HA2	2.05	0.56
1:6:1254:U:OP1	33:e1:143:LYS:HD3	2.04	0.56
1:6:1309:C:O2'	1:6:1401:A:N1	2.37	0.56
2:s0:56:LYS:NZ	2:s0:158:VAL:HA	2.19	0.56
8:s6:2:LYS:HB3	8:s6:108:VAL:HG12	1.87	0.56
26:d4:125:LEU:O	26:d4:128:LYS:HB2	2.05	0.56
36:5:412:G:H1'	53:m7:120:ASN:HB3	1.86	0.56
36:5:1315:U:OP1	52:m6:18:ARG:NH1	2.37	0.56
36:5:1621:A:H2'	36:5:1622:U:C6	2.40	0.56
39:l2:30:ARG:HA	39:l2:74:GLU:OE2	2.04	0.56
40:l3:139:GLN:O	40:l3:141:GLY:N	2.37	0.56
48:m1:90:GLN:HG2	48:m1:170:ASP:HB2	1.87	0.56
62:n6:59:VAL:HG22	62:n6:103:LYS:O	2.05	0.56
1:2:814:A:H5"	55:M9:170:ARG:HH22	1.70	0.56
1:2:856:A:H62	9:S7:97:ARG:H	1.53	0.56
1:2:1066:C:H4'	3:S1:149:GLN:NE2	2.20	0.56
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	1.87	0.56
6:S4:124:GLY:HA2	6:S4:142:HIS:CE1	2.40	0.56
9:S7:50:ASP:OD1	9:S7:50:ASP:N	2.35	0.56
14:C2:76:GLU:OE2	14:C2:90:LYS:NZ	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:77:PRO:O	24:D2:79:PHE:N	2.37	0.56
36:1:634:C:H4'	68:O2:47:ARG:NH1	2.21	0.56
36:1:1752:A:OP2	92:1:4281:OHX:N3	2.38	0.56
36:1:2279:A:O2'	92:1:4359:OHX:N6	2.38	0.56
36:1:3183:A:H2	36:1:3188:G:H4'	1.70	0.56
45:L8:116:VAL:HG23	45:L8:125:ALA:HB3	1.87	0.56
63:N7:25:ILE:HA	63:N7:43:VAL:HG12	1.86	0.56
75:O9:10:LYS:HA	75:O9:13:MET:HE3	1.86	0.56
1:6:747:C:OP2	92:6:2329:OHX:N5	2.38	0.56
7:s5:156:ARG:HA	7:s5:157:ARG:HH21	1.68	0.56
36:5:408:A:OP1	92:5:4358:OHX:N6	2.39	0.56
36:5:2722:U:OP1	65:n9:33:LYS:NZ	2.37	0.56
36:5:3241:G:H2'	36:5:3245:A:H8	1.70	0.56
36:5:3316:A:H5"	36:5:3318:G:N2	2.19	0.56
1:2:118:U:O4	92:2:2217:OHX:N5	2.38	0.56
1:2:323:A:OP2	10:S8:10:LYS:HG3	2.05	0.56
1:2:1064:G:O6	92:2:2249:OHX:N6	2.38	0.56
1:2:1470:C:OP1	1:2:1540:G:O2'	2.23	0.56
1:2:1796:C:OP1	28:D6:87:ARG:NH1	2.39	0.56
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.69	0.56
3:S1:175:GLU:HG3	3:S1:193:ILE:HD12	1.87	0.56
3:S1:178:GLY:O	3:S1:180:THR:N	2.38	0.56
4:S2:35:TRP:CE2	4:S2:37:PRO:HB3	2.40	0.56
4:S2:73:LEU:HG	4:S2:76:LEU:HD13	1.86	0.56
8:S6:164:LYS:HB3	8:S6:167:LYS:HB3	1.88	0.56
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.05	0.56
11:S9:175:ARG:HD3	11:S9:179:ARG:CZ	2.35	0.56
15:C3:103:GLU:HA	15:C3:106:ARG:HH22	1.70	0.56
16:C4:102:LEU:HD22	16:C4:105:LEU:HD11	1.86	0.56
18:C6:14:LYS:O	18:C6:123:ARG:NH1	2.35	0.56
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.87	0.56
36:1:739:G:O6	92:1:4151:OHX:N3	2.39	0.56
36:1:1017:C:O2'	36:1:1018:G:OP2	2.22	0.56
36:1:1043:C:O3'	47:M0:90:ARG:NH1	2.38	0.56
36:1:1433:A:N3	68:O2:27:ARG:NH1	2.53	0.56
36:1:1952:G:H3'	36:1:1953:G:H5"	1.87	0.56
36:1:2193:U:H5'	36:1:2194:G:H5'	1.86	0.56
36:1:2393:G:H4'	40:L3:252:ILE:CG1	2.35	0.56
36:1:2873:U:C2	92:1:4436:OHX:N1	2.73	0.56
36:1:3153:U:H3	36:1:3293:U:H3	1.51	0.56
92:1:4492:OHX:N6	38:4:43:A:OP1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:62:VAL:HG11	39:L2:71:LEU:HD23	1.87	0.56
40:L3:232:ARG:NH1	40:L3:269:GLN:O	2.36	0.56
43:L6:98:VAL:HA	43:L6:101:PHE:HD2	1.70	0.56
45:L8:86:THR:O	45:L8:90:THR:OG1	2.24	0.56
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.38	0.56
68:O2:123:LYS:HA	68:O2:126:LEU:HD12	1.88	0.56
71:O5:101:THR:HG22	71:O5:104:GLN:HB2	1.87	0.56
1:6:138:A:N6	1:6:266:A:H61	2.04	0.56
1:6:782:U:OP2	92:6:2296:OHX:N1	2.38	0.56
1:6:1180:C:O2'	82:c5:128:HIS:HA	2.05	0.56
1:6:1230:A:H2	1:6:1255:G:H21	1.49	0.56
1:6:1698:G:N2	1:6:1699:G:N7	2.53	0.56
5:s3:22:ASN:O	5:s3:26:THR:OG1	2.21	0.56
8:s6:155:ASP:N	8:s6:155:ASP:OD2	2.33	0.56
15:c3:112:LYS:O	15:c3:116:ILE:HD13	2.04	0.56
18:c6:115:THR:O	18:c6:117:LEU:N	2.39	0.56
83:sR:80:ALA:HB3	83:sR:92:TRP:HB2	1.86	0.56
36:5:595:G:H1	36:5:609:G:H5"	1.70	0.56
36:5:1471:U:H2'	36:5:1472:U:H6	1.70	0.56
36:5:1938:U:O4	92:5:4554:OHX:N5	2.38	0.56
36:5:2554:A:H62	79:q3:62:LYS:HZ2	1.53	0.56
41:l4:62:ALA:HB3	41:l4:90:PHE:HE2	1.68	0.56
43:l6:55:LEU:HB2	43:l6:64:LEU:HB3	1.86	0.56
51:m5:183:THR:O	51:m5:183:THR:OG1	2.17	0.56
56:n0:12:ARG:HB3	56:n0:24:LEU:HD23	1.87	0.56
62:n6:11:ASP:HB3	62:n6:14:LYS:HG3	1.86	0.56
67:o1:72:ARG:NH2	67:o1:105:GLN:O	2.35	0.56
1:2:100:A:H61	1:2:385:A:H1'	1.70	0.56
1:2:1218:G:N2	1:2:1444:A:OP2	2.19	0.56
1:2:1483:A:H2'	1:2:1484:G:C8	2.41	0.56
7:S5:51:VAL:HA	7:S5:131:GLN:OE1	2.04	0.56
14:C2:129:GLU:HA	14:C2:133:LEU:HD22	1.88	0.56
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.87	0.56
36:1:357:A:OP2	92:1:4390:OHX:N4	2.38	0.56
36:1:804:C:H4'	41:L4:93:MET:HE1	1.87	0.56
41:L4:52:VAL:HG11	41:L4:99:MET:HE3	1.87	0.56
46:L9:90:MET:HE2	46:L9:179:ILE:HG22	1.87	0.56
1:6:230:C:N4	1:6:235:G:H1	2.00	0.56
1:6:900:A:OP1	16:c4:43:THR:OG1	2.18	0.56
1:6:1518:C:OP2	92:6:2238:OHX:N1	2.38	0.56
5:s3:29:LEU:HD21	5:s3:69:LEU:HD21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1556:C:H2'	36:5:2169:G:N1	2.20	0.56
36:5:1696:A:OP2	92:5:4455:OHX:N6	2.38	0.56
36:5:2211:U:H5	36:5:2234:G:N1	2.02	0.56
36:5:2659:G:H4'	36:5:2751:G:O2'	2.06	0.56
36:5:2834:G:OP1	92:5:4200:OHX:N3	2.39	0.56
39:l2:118:GLU:HG3	39:l2:126:LEU:HD21	1.86	0.56
1:2:337:G:H1'	10:S8:10:LYS:HZ1	1.70	0.56
1:2:1338:C:H1'	1:2:1410:A:C4	2.40	0.56
1:2:1583:A:N1	1:2:1611:A:H5"	2.20	0.56
15:C3:56:ASP:OD1	29:D7:52:THR:OG1	2.17	0.56
21:C9:61:VAL:O	21:C9:65:ILE:HG13	2.05	0.56
36:1:1108:U:H2'	36:1:1109:U:H6	1.70	0.56
36:1:3118:C:H4'	76:Q0:106:ARG:NH2	2.21	0.56
39:L2:129:ALA:HB3	39:L2:132:ASN:OD1	2.05	0.56
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	1.87	0.56
1:6:1230:A:H8	1:6:1258:U:C4	2.24	0.56
36:5:1431:G:N7	64:n8:9:ARG:NH2	2.53	0.56
38:8:24:G:OP2	62:n6:13:ARG:NH1	2.33	0.56
85:l8:54:GLU:O	85:l8:58:VAL:HG23	2.05	0.56
46:l9:57:VAL:HG23	46:l9:68:LEU:HG	1.87	0.56
54:m8:170:ARG:HA	54:m8:174:ARG:HD2	1.88	0.56
62:n6:87:LYS:HG3	62:n6:97:ILE:HD11	1.88	0.56
1:2:800:U:H2'	1:2:801:G:H8	1.70	0.56
11:S9:34:PHE:HD1	11:S9:111:THR:HG21	1.69	0.56
36:1:776:U:C5	36:1:2719:U:O2	2.58	0.56
36:1:980:A:H2'	36:1:981:U:C2	2.40	0.56
36:1:1240:A:H3'	36:1:1241:U:H5'	1.87	0.56
36:1:2402:A:OP2	92:1:4323:OHX:N5	2.38	0.56
1:6:169:A:H5'	8:s6:176:GLN:HG2	1.86	0.56
1:6:486:G:O6	1:6:488:G:N2	2.38	0.56
1:6:1159:C:N3	92:6:2232:OHX:N5	2.53	0.56
36:5:652:G:OP2	92:5:4437:OHX:N4	2.38	0.56
36:5:3089:C:H2'	36:5:3090:U:O4'	2.06	0.56
37:7:3:U:H2'	37:7:4:U:C6	2.40	0.56
38:8:77:A:H2'	38:8:78:G:O4'	2.05	0.56
40:l3:227:GLU:HG3	40:l3:270:ARG:CD	2.35	0.56
42:l5:257:GLU:C	42:l5:258:LYS:HD3	2.30	0.56
51:m5:149:ASN:OD1	92:m5:304:OHX:N1	2.38	0.56
66:o0:26:GLY:O	66:o0:30:THR:HG23	2.05	0.56
68:o2:81:ASP:O	68:o2:84:THR:OG1	2.22	0.56
73:o7:76:ASN:O	73:o7:79:GLN:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:138:A:N6	1:2:266:A:H61	2.04	0.56
1:2:986:G:OP2	39:L2:251:LYS:NZ	2.39	0.56
1:2:1754:A:O2'	92:2:2104:OHX:N5	2.39	0.56
2:S0:189:VAL:HG22	2:S0:190:ASP:H	1.70	0.56
20:C8:30:TYR:HE2	20:C8:40:ARG:HH11	1.54	0.56
36:1:805:G:H1'	41:L4:73:ARG:HH11	1.71	0.56
36:1:1260:A:H1'	36:1:1280:C:H1'	1.87	0.56
36:1:1460:A:H2'	36:1:1461:A:H8	1.69	0.56
36:1:3018:C:H2'	36:1:3019:U:O4'	2.06	0.56
40:L3:123:TYR:CE2	40:L3:124:LYS:HG3	2.40	0.56
40:L3:171:LEU:HD21	40:L3:333:LYS:HB3	1.86	0.56
41:L4:141:ARG:HB2	41:L4:176:SER:HB3	1.88	0.56
43:L6:72:ASN:ND2	43:L6:159:LEU:O	2.34	0.56
46:L9:47:LYS:HZ2	50:M4:6:ILE:H	1.54	0.56
47:M0:187:ALA:O	92:M0:308:OHX:N5	2.38	0.56
54:M8:64:VAL:HG22	54:M8:96:PHE:CE2	2.41	0.56
55:M9:105:LEU:HD11	55:M9:139:VAL:HG23	1.88	0.56
63:N7:124:ALA:O	63:N7:126:LYS:N	2.39	0.56
1:6:558:U:OP1	32:e0:58:PRO:HA	2.06	0.56
1:6:658:C:H5'	1:6:659:C:OP2	2.06	0.56
2:s0:56:LYS:HZ2	2:s0:158:VAL:HA	1.70	0.56
36:5:219:A:HO2'	36:5:220:G:H21	1.53	0.56
36:5:252:U:H4'	36:5:253:A:C5'	2.35	0.56
36:5:949:C:O2'	36:5:971:G:OP1	2.21	0.56
36:5:980:A:H2'	36:5:981:U:C2	2.41	0.56
36:5:1671:C:OP1	55:m9:60:LYS:HE2	2.06	0.56
36:5:3128:G:OP2	92:5:4425:OHX:N3	2.39	0.56
40:l3:227:GLU:HG3	40:l3:270:ARG:HD3	1.87	0.56
48:m1:16:LYS:HD3	48:m1:70:THR:HG23	1.88	0.56
1:2:959:U:C6	15:C3:61:THR:HB	2.40	0.56
1:2:973:A:H2'	1:2:974:A:H8	1.70	0.56
2:S0:182:LEU:HB3	2:S0:188:LEU:HD23	1.87	0.56
11:S9:114:TYR:HD1	11:S9:121:SER:H	1.53	0.56
13:C1:3:THR:HG21	13:C1:82:ARG:HH21	1.70	0.56
17:C5:98:ASN:HB3	17:C5:120:SER:OG	2.04	0.56
36:1:1103:A:H1'	36:1:1104:G:OP1	2.06	0.56
36:1:1240:A:H2	36:1:1248:C:H41	1.52	0.56
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.88	0.56
36:1:1866:C:OP1	92:1:4338:OHX:N6	2.38	0.56
38:4:87:G:OP2	71:O5:7:TYR:OH	2.21	0.56
1:6:163:G:H8	1:6:163:G:O5'	1.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1429:G:H2'	1:6:1430:U:C6	2.41	0.56
36:5:437:G:H22	36:5:622:A:N6	2.00	0.56
36:5:2617:U:H3'	65:n9:3:LYS:HD3	1.88	0.56
44:l7:157:ASN:O	44:l7:159:GLN:HG2	2.04	0.56
47:m0:127:ALA:O	47:m0:129:VAL:HG23	2.05	0.56
57:n1:105:PHE:O	57:n1:109:VAL:HG23	2.06	0.56
1:2:115:G:OP1	13:C1:67:ARG:NH1	2.39	0.56
1:2:1258:U:H4'	12:C0:2:LEU:HD13	1.88	0.56
3:S1:171:ILE:HD12	3:S1:197:ILE:HD13	1.87	0.56
6:S4:139:VAL:HB	6:S4:150:PRO:HG3	1.87	0.56
11:S9:77:ILE:HD11	11:S9:93:LEU:HB3	1.87	0.56
30:D8:13:ILE:O	30:D8:14:LYS:HD2	2.06	0.56
36:1:263:C:H2'	36:1:264:G:O4'	2.06	0.56
36:1:1103:A:H4'	36:1:1103:A:OP2	2.06	0.56
36:1:2641:U:OP1	92:1:4370:OHX:N4	2.39	0.56
36:1:2979:U:N3	92:1:4446:OHX:N5	2.54	0.56
40:L3:76:VAL:HG21	40:L3:323:MET:HE3	1.87	0.56
47:M0:193:ASP:OD1	47:M0:198:LYS:HE3	2.05	0.56
69:O3:6:ARG:HG3	69:O3:8:TYR:CZ	2.41	0.56
1:6:653:C:H42	1:6:677:G:H1	1.54	0.56
2:s0:184:LEU:HD12	23:d1:45:ALA:HB2	1.88	0.56
3:s1:66:VAL:HG13	16:c4:33:LEU:HB3	1.87	0.56
7:s5:72:HIS:ND1	18:c6:79:TYR:OH	2.36	0.56
11:s9:20:GLU:HB2	11:s9:23:ARG:HB3	1.88	0.56
11:s9:129:ILE:HA	11:s9:134:ILE:HG12	1.88	0.56
11:s9:146:PHE:O	11:s9:147:MET:HB2	2.05	0.56
15:c3:119:GLU:HG2	15:c3:141:TYR:CE2	2.41	0.56
36:5:3:U:H3	38:8:156:U:H3	1.53	0.56
36:5:979:U:H1'	36:5:980:A:C4	2.41	0.56
36:5:2554:A:N7	79:q3:62:LYS:NZ	2.54	0.56
40:l3:81:THR:HG23	40:l3:81:THR:O	2.06	0.56
42:l5:148:ILE:HG23	42:l5:151:GLN:HB3	1.87	0.56
42:l5:279:LYS:HD3	42:l5:282:ARG:NH2	2.21	0.56
66:o0:99:ASP:OD2	66:o0:99:ASP:N	2.39	0.56
70:o4:99:LYS:O	70:o4:103:LYS:HG2	2.06	0.56
1:2:639:U:OP1	9:S7:117:THR:OG1	2.23	0.56
6:S4:68:ARG:NH1	6:S4:76:VAL:HG21	2.20	0.56
6:S4:194:THR:O	6:S4:195:ILE:HB	2.05	0.56
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	1.86	0.56
15:C3:103:GLU:HA	15:C3:106:ARG:NH2	2.20	0.56
36:1:1393:A:N3	36:1:1419:A:O2'	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:10:ARG:NH2	40:L3:263:SER:O	2.38	0.56
1:6:538:A:H8	1:6:543:C:H41	1.51	0.56
3:s1:27:LYS:NZ	16:c4:37:GLU:OE1	2.36	0.56
3:s1:85:LYS:HB3	3:s1:101:HIS:HB3	1.88	0.56
26:d4:50:ALA:HB1	26:d4:54:ALA:HB3	1.88	0.56
36:5:595:G:N1	36:5:609:G:H5"	2.20	0.56
36:5:641:C:H42	36:5:645:A:H8	1.54	0.56
36:5:1661:G:H2'	36:5:1662:G:C8	2.41	0.56
36:5:1765:U:H4'	36:5:1765:U:OP1	2.05	0.56
40:l3:81:THR:HG22	40:l3:321:PHE:CA	2.35	0.56
40:l3:152:LYS:HD3	40:l3:189:SER:HA	1.88	0.56
56:n0:12:ARG:HG3	56:n0:13:ARG:O	2.06	0.56
68:o2:12:LYS:HD3	68:o2:57:TYR:O	2.06	0.56
1:2:1339:C:H4'	1:2:1340:U:OP2	2.06	0.55
1:2:1745:G:O6	92:2:2134:OHX:N6	2.38	0.55
22:D0:72:ASN:HD22	22:D0:73:GLY:H	1.54	0.55
25:D3:144:ARG:HD2	25:D3:145:SER:H	1.71	0.55
36:1:1245:A:H3'	36:1:1246:G:H5"	1.87	0.55
38:4:104:A:C8	38:4:105:A:C8	2.94	0.55
47:M0:84:ALA:O	47:M0:140:THR:HG22	2.05	0.55
56:N0:91:TYR:OH	56:N0:93:GLU:OE2	2.18	0.55
66:O0:43:ILE:HG22	66:O0:70:PHE:HB2	1.87	0.55
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	1.71	0.55
1:6:453:U:O4	92:6:2157:OHX:N4	2.38	0.55
1:6:760:A:OP2	92:6:2180:OHX:N5	2.39	0.55
1:6:1672:G:H2'	1:6:1673:G:C8	2.40	0.55
42:l5:119:TYR:CZ	42:l5:135:VAL:HG23	2.41	0.55
47:m0:47:PRO:HB3	47:m0:171:TRP:CZ2	2.41	0.55
53:m7:94:LEU:HB3	53:m7:148:LEU:HD21	1.87	0.55
1:2:393:C:OP2	10:S8:2:GLY:N	2.38	0.55
1:2:413:U:H2'	1:2:414:C:C6	2.40	0.55
1:2:637:C:OP1	24:D2:32:LYS:HG3	2.06	0.55
33:E1:106:TYR:CE2	33:E1:116:LYS:HG2	2.41	0.55
36:1:147:U:OP2	45:L8:136:LEU:N	2.39	0.55
2:s0:76:ILE:HG12	2:s0:98:ILE:HB	1.87	0.55
19:c7:105:GLN:O	19:c7:109:LEU:N	2.38	0.55
20:c8:4:VAL:HG21	27:d5:82:HIS:CG	2.41	0.55
20:c8:46:VAL:HG11	20:c8:73:MET:HE3	1.88	0.55
36:5:547:G:C5	36:5:548:G:H1'	2.42	0.55
36:5:651:G:O2'	36:5:1435:A:OP1	2.22	0.55
36:5:1596:C:H2'	36:5:1597:C:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3275:U:C4	69:o3:60:ARG:HD2	2.42	0.55
39:l2:105:GLY:HA3	39:l2:160:SER:HB3	1.89	0.55
59:n3:70:ARG:O	59:n3:72:LYS:HE3	2.06	0.55
59:n3:74:MET:HG3	59:n3:102:ILE:HG23	1.87	0.55
67:o1:44:MET:O	67:o1:46:THR:N	2.40	0.55
1:2:417:A:H4'	1:2:418:G:O5'	2.05	0.55
1:2:1133:A:N3	1:2:1650:U:O2'	2.35	0.55
4:S2:102:VAL:HG11	4:S2:129:ILE:HG12	1.88	0.55
9:S7:173:TYR:HE1	9:S7:179:LYS:HB2	1.69	0.55
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.88	0.55
36:1:911:C:N4	39:L2:3:ARG:HD3	2.21	0.55
36:1:2989:U:O2'	40:L3:267:ALA:O	2.21	0.55
36:1:3096:C:H2'	36:1:3097:C:C6	2.41	0.55
40:L3:346:THR:O	40:L3:348:ARG:N	2.39	0.55
42:L5:155:THR:HA	42:L5:179:ARG:HD3	1.86	0.55
57:N1:15:PHE:CE2	57:N1:44:ALA:HB3	2.42	0.55
57:N1:39:ILE:HD11	57:N1:102:ARG:HD3	1.87	0.55
72:O6:5:THR:OG1	72:O6:7:ILE:HG12	2.06	0.55
1:6:1389:C:O2'	19:c7:52:GLY:HA3	2.05	0.55
2:s0:66:ALA:HB1	23:d1:50:TYR:CD1	2.41	0.55
15:c3:26:PHE:CE2	15:c3:28:LEU:HB2	2.41	0.55
26:d4:57:VAL:HB	26:d4:60:PHE:HE2	1.71	0.55
36:5:223:U:O4	92:5:4549:OHX:N4	2.39	0.55
36:5:314:U:H2'	36:5:315:C:H6	1.72	0.55
36:5:655:C:H2'	36:5:656:A:C8	2.41	0.55
36:5:781:G:N7	92:5:4249:OHX:N4	2.55	0.55
36:5:1320:C:O2	56:n0:115:ARG:NH2	2.40	0.55
36:5:1340:G:H2'	36:5:1341:U:H6	1.71	0.55
36:5:1688:U:H2'	36:5:1689:U:C6	2.42	0.55
36:5:1940:G:H21	36:5:3362:A:H8	1.55	0.55
36:5:2101:C:O2'	36:5:2102:U:OP1	2.23	0.55
36:5:2204:C:H4'	36:5:2205:U:OP1	2.05	0.55
36:5:3383:G:H2'	36:5:3384:U:H6	1.69	0.55
46:l9:90:MET:HE2	46:l9:179:ILE:HG22	1.87	0.55
51:m5:190:THR:O	51:m5:194:GLN:HG2	2.06	0.55
61:n5:110:VAL:HG22	61:n5:124:VAL:HG13	1.87	0.55
61:n5:137:ASN:HD22	61:n5:142:ILE:HD11	1.71	0.55
1:2:448:C:OP1	6:S4:29:PRO:HD3	2.07	0.55
1:2:803:A:N3	9:S7:104:ARG:NE	2.54	0.55
23:D1:81:ASN:O	23:D1:83:TRP:N	2.39	0.55
36:1:314:U:H2'	36:1:315:C:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1467:A:N1	36:1:1511:U:O2'	2.35	0.55
36:1:1675:G:H2'	36:1:1676:A:H8	1.71	0.55
92:1:4390:OHX:N2	75:O9:48:LYS:O	2.39	0.55
38:4:45:C:H4'	75:O9:11:GLN:NE2	2.21	0.55
20:c8:5:VAL:O	27:d5:42:LEU:HB2	2.06	0.55
33:e1:84:VAL:HG13	33:e1:85:TYR:CD1	2.35	0.55
36:5:437:G:N7	92:5:4556:OHX:N3	2.54	0.55
36:5:656:A:H2'	36:5:657:A:C8	2.42	0.55
36:5:2537:U:O2'	36:5:2538:U:O4'	2.20	0.55
36:5:3186:A:N3	46:l9:44:THR:HG22	2.21	0.55
36:5:3364:C:OP1	92:5:4199:OHX:N1	2.39	0.55
41:l4:93:MET:H	41:l4:93:MET:HE2	1.70	0.55
48:m1:155:THR:O	48:m1:159:THR:HG23	2.07	0.55
1:2:1595:U:N3	1:2:1600:A:H2	2.04	0.55
3:S1:176:VAL:C	3:S1:178:GLY:H	2.14	0.55
36:1:118:U:O2	36:1:121:A:H5'	2.05	0.55
36:1:431:U:OP1	69:O3:53:TYR:OH	2.18	0.55
36:1:853:G:N7	79:Q3:2:ALA:HB2	2.22	0.55
36:1:1064:A:H5"	36:1:1066:G:O4'	2.07	0.55
36:1:2234:G:O6	92:1:4278:OHX:N4	2.40	0.55
36:1:2767:U:OP1	92:1:4379:OHX:N2	2.40	0.55
36:1:3084:C:H2'	36:1:3085:G:O4'	2.06	0.55
40:L3:76:VAL:HG11	40:L3:323:MET:HE3	1.88	0.55
43:L6:54:TYR:CE2	43:L6:63:LEU:HD22	2.42	0.55
44:L7:52:GLN:O	44:L7:56:GLU:HG2	2.07	0.55
44:L7:88:ARG:NH1	44:L7:91:GLY:O	2.40	0.55
49:M3:166:ALA:HB1	64:N8:147:LEU:HD21	1.88	0.55
53:M7:24:VAL:HG12	53:M7:86:LYS:HG2	1.88	0.55
75:O9:8:ARG:O	75:O9:12:LYS:HG3	2.06	0.55
29:d7:19:HIS:HB3	29:d7:22:LYS:HD2	1.89	0.55
36:5:156:G:OP2	72:o6:25:LYS:HB3	2.06	0.55
36:5:869:G:H2'	36:5:870:G:C8	2.42	0.55
36:5:1024:G:O6	36:5:1029:G:N2	2.39	0.55
36:5:1222:G:O6	92:5:4384:OHX:N1	2.39	0.55
36:5:1318:A:OP1	52:m6:18:ARG:NH2	2.40	0.55
37:7:3:U:H2'	37:7:4:U:H6	1.70	0.55
37:7:22:A:H1'	42:l5:272:TYR:CE1	2.41	0.55
42:l5:83:LEU:HB3	42:l5:88:ILE:HB	1.87	0.55
56:n0:137:ARG:HG2	56:n0:139:TYR:CZ	2.40	0.55
63:n7:22:LYS:HE3	63:n7:134:LEU:HB2	1.88	0.55
1:2:16:G:H2'	1:2:17:C:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:70:LEU:HD21	3:S1:79:HIS:CD2	2.42	0.55
5:S3:162:GLN:NE2	5:S3:165:ASN:HB2	2.21	0.55
24:D2:27:ILE:HD11	24:D2:61:ILE:HD12	1.89	0.55
27:D5:60:VAL:CG2	27:D5:101:TYR:HB2	2.36	0.55
36:1:540:U:OP2	92:1:4482:OHX:N4	2.39	0.55
36:1:3366:G:H2'	36:1:3367:C:C6	2.41	0.55
41:L4:342:LYS:NZ	44:L7:56:GLU:OE2	2.24	0.55
55:M9:90:PRO:HB2	55:M9:93:VAL:HG23	1.88	0.55
59:N3:40:LYS:HG3	59:N3:57:MET:HG2	1.88	0.55
64:N8:88:ASP:O	64:N8:92:LYS:HG3	2.06	0.55
1:6:149:C:H2'	1:6:150:U:H6	1.72	0.55
1:6:1098:U:H6	1:6:1098:U:H5"	1.72	0.55
1:6:1405:G:H2'	1:6:1406:A:C8	2.41	0.55
1:6:1699:G:H22	1:6:1701:A:H3'	1.72	0.55
5:s3:70:THR:HG22	5:s3:86:LEU:HB2	1.88	0.55
21:c9:105:LEU:HB3	21:c9:122:ARG:NE	2.21	0.55
84:sM:23:LYS:HE3	84:sM:24:GLU:H	1.72	0.55
36:5:2599:U:H2'	36:5:2600:C:C6	2.41	0.55
39:l2:238:ILE:HG22	39:l2:239:ALA:N	2.22	0.55
85:l8:152:LEU:HB3	85:l8:180:VAL:HG21	1.88	0.55
46:l9:24:ILE:HD11	46:l9:39:LYS:HD2	1.87	0.55
46:l9:86:TYR:CE2	46:l9:151:VAL:HG22	2.42	0.55
70:o4:96:GLU:OE1	70:o4:99:LYS:NZ	2.33	0.55
36:1:501:A:H2'	36:1:502:U:H6	1.72	0.55
44:L7:83:LEU:HD22	44:L7:84:VAL:H	1.71	0.55
45:L8:152:LEU:HB3	45:L8:180:VAL:HG21	1.89	0.55
52:M6:23:VAL:HG11	52:M6:84:LEU:HD11	1.89	0.55
56:N0:155:ARG:HD3	56:N0:172:TYR:CD1	2.42	0.55
1:6:55:A:OP1	26:d4:112:LYS:NZ	2.39	0.55
1:6:1230:A:H2'	1:6:1258:U:C5	2.42	0.55
5:s3:116:ARG:HG3	5:s3:152:PHE:HE1	1.72	0.55
18:c6:109:PHE:O	18:c6:113:ASP:N	2.39	0.55
36:5:1204:A:H2'	36:5:1205:A:H5'	1.89	0.55
36:5:2580:A:O2'	92:5:4386:OHX:N1	2.39	0.55
38:8:38:U:O2'	71:o5:83:LYS:NZ	2.37	0.55
42:l5:120:LYS:O	42:l5:248:ARG:NH2	2.40	0.55
42:l5:132:THR:HG21	42:l5:170:GLY:HA2	1.87	0.55
68:o2:16:LYS:O	68:o2:17:PHE:HB2	2.06	0.55
88:p0:25:LEU:HD13	88:p0:88:PHE:CE2	2.41	0.55
1:2:61:A:H8	1:2:269:G:HO2'	1.53	0.55
1:2:348:U:O4	92:2:2179:OHX:N5	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1487:A:H2'	1:2:1488:G:C8	2.41	0.55
3:S1:127:VAL:HG11	3:S1:176:VAL:HG21	1.88	0.55
4:S2:98:PHE:CZ	35:SM:116:GLU:HG3	2.42	0.55
14:C2:119:SER:OG	14:C2:120:VAL:N	2.39	0.55
36:1:665:A:OP1	51:M5:203:ARG:HD2	2.07	0.55
36:1:1814:A:H4'	36:1:1815:U:H5'	1.87	0.55
36:1:2800:G:O6	64:N8:42:ARG:NH2	2.31	0.55
36:1:3100:U:O2	36:1:3101:G:C8	2.60	0.55
41:L4:291:ASN:O	41:L4:296:GLN:HG3	2.07	0.55
59:N3:86:ARG:HB2	59:N3:92:PHE:CE1	2.42	0.55
1:6:14:C:OP2	4:s2:206:THR:HG21	2.06	0.55
1:6:292:U:H2'	1:6:293:U:C6	2.42	0.55
1:6:523:G:H5'	26:d4:60:PHE:O	2.06	0.55
3:s1:47:LEU:HD12	3:s1:47:LEU:H	1.72	0.55
8:s6:214:LYS:HB3	8:s6:218:GLU:OE1	2.07	0.55
11:s9:33:GLU:OE1	32:e0:40:TYR:OH	2.25	0.55
36:5:1378:U:OP1	92:5:4285:OHX:N3	2.40	0.55
36:5:2573:G:OP1	63:n7:61:LYS:HE3	2.07	0.55
36:5:3066:U:O4	92:5:4361:OHX:N4	2.40	0.55
85:l8:151:VAL:HG13	85:l8:199:ALA:HB2	1.89	0.55
1:2:1266:U:H2'	1:2:1267:G:C8	2.42	0.55
3:S1:70:LEU:O	3:S1:74:GLN:N	2.39	0.55
11:S9:171:ARG:NH1	11:S9:174:ARG:HG3	2.22	0.55
13:C1:71:LEU:HB3	13:C1:88:ARG:NH1	2.22	0.55
36:1:1491:A:N7	75:O9:2:ALA:HB3	2.22	0.55
36:1:2395:G:H4'	40:L3:258:ALA:HB1	1.87	0.55
36:1:2550:U:H6	45:L8:37:GLY:HA3	1.71	0.55
37:3:50:U:H2'	37:3:51:A:H5'	1.88	0.55
40:L3:77:THR:HG23	40:L3:326:GLY:O	2.07	0.55
43:L6:130:ILE:HG21	43:L6:135:VAL:HG23	1.89	0.55
1:6:1660:A:H2'	1:6:1661:U:C6	2.42	0.55
1:6:1797:A:C6	28:d6:84:VAL:HG22	2.42	0.55
1:6:1798:U:OP2	28:d6:38:ARG:NH2	2.40	0.55
5:s3:80:ALA:O	5:s3:83:THR:OG1	2.24	0.55
6:s4:127:LYS:HA	6:s4:127:LYS:HE2	1.88	0.55
19:c7:28:PHE:HA	19:c7:55:THR:HG21	1.89	0.55
21:c9:33:TYR:C	21:c9:35:ASP:H	2.15	0.55
83:sR:22:SER:OG	83:sR:70:ASP:HA	2.06	0.55
36:5:314:U:H2'	36:5:315:C:C6	2.42	0.55
36:5:2201:G:H21	39:l2:224:THR:HG21	1.71	0.55
36:5:3072:C:H2'	36:5:3073:A:O4'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:65:A:O3'	71:o5:10:ARG:NH2	2.40	0.55
42:l5:122:VAL:C	42:l5:124:GLU:H	2.14	0.55
1:2:17:C:H2'	1:2:18:C:C6	2.42	0.55
1:2:704:C:H3'	1:2:704:C:OP2	2.07	0.55
1:2:866:G:OP1	15:C3:2:GLY:HA2	2.06	0.55
3:S1:137:ILE:HD11	3:S1:172:LEU:HD22	1.88	0.55
18:C6:55:VAL:HG21	18:C6:105:LEU:HG	1.89	0.55
21:C9:134:ARG:HD3	21:C9:138:GLN:HE21	1.72	0.55
32:E0:55:ARG:HB3	32:E0:58:PRO:HG3	1.87	0.55
36:1:911:C:H42	39:L2:3:ARG:HD3	1.71	0.55
36:1:2228:A:H2'	36:1:2229:A:C8	2.42	0.55
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.07	0.55
41:L4:362:ASP:C	57:N1:150:THR:HG21	2.31	0.55
18:c6:97:VAL:CG2	18:c6:98:ASP:N	2.70	0.55
19:c7:77:GLU:O	19:c7:81:LYS:HG3	2.07	0.55
22:d0:20:ILE:HG22	22:d0:21:LYS:H	1.72	0.55
83:sR:149:ASP:HB2	83:sR:175:ASP:HB3	1.88	0.55
36:5:1506:A:H1'	36:5:1848:G:O6	2.06	0.55
36:5:3328:G:OP2	92:5:4293:OHX:N2	2.40	0.55
40:l3:198:HIS:O	40:l3:201:LYS:HB2	2.07	0.55
85:l8:161:GLU:OE2	51:m5:26:ARG:NH2	2.40	0.55
46:l9:36:LYS:HD3	46:l9:38:LEU:HD21	1.89	0.55
64:n8:25:HIS:C	64:n8:25:HIS:CD2	2.85	0.55
1:2:327:U:H2'	1:2:328:A:C8	2.42	0.54
1:2:422:G:OP1	92:2:2088:OHX:N6	2.40	0.54
1:2:761:G:OP1	11:S9:54:ARG:NH1	2.37	0.54
18:C6:58:ASP:OD2	18:C6:59:LYS:N	2.40	0.54
19:C7:76:GLU:HA	19:C7:79:GLU:HB2	1.88	0.54
27:D5:59:TYR:HE2	27:D5:61:SER:HB3	1.72	0.54
36:1:863:C:H2'	36:1:864:G:O4'	2.06	0.54
36:1:2539:C:H5'	36:1:2541:U:O4	2.06	0.54
41:L4:99:MET:SD	41:L4:102:PRO:HA	2.47	0.54
42:L5:34:LYS:O	42:L5:38:THR:HG23	2.07	0.54
44:L7:26:VAL:HG13	44:L7:27:ALA:H	1.72	0.54
7:s5:43:PHE:CZ	7:s5:90:ILE:HG21	2.41	0.54
7:s5:143:ARG:HD3	30:d8:55:VAL:HG11	1.89	0.54
9:s7:173:TYR:HE1	9:s7:179:LYS:HB2	1.72	0.54
18:c6:103:ASN:HA	18:c6:106:LYS:HB2	1.87	0.54
18:c6:127:LYS:HE2	18:c6:132:LYS:O	2.07	0.54
84:sM:50:ASN:OD1	84:sM:50:ASN:N	2.39	0.54
36:5:264:G:O6	92:5:4550:OHX:N2	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:314:U:O4	92:5:4464:OHX:N2	2.40	0.54
36:5:1493:G:O6	75:o9:2:ALA:N	2.40	0.54
36:5:3198:U:H4'	36:5:3199:G:OP2	2.07	0.54
36:5:3298:C:OP1	92:5:4184:OHX:N6	2.40	0.54
44:l7:84:VAL:HG12	44:l7:117:VAL:HB	1.89	0.54
1:2:138:A:OP2	1:2:1706:C:O2'	2.24	0.54
1:2:1795:U:O2	28:D6:10:ARG:HD2	2.08	0.54
3:S1:119:THR:HB	3:S1:143:THR:HG23	1.89	0.54
6:S4:65:LEU:HG	6:S4:70:VAL:HG21	1.88	0.54
9:S7:38:LEU:HD23	9:S7:41:LEU:HD12	1.89	0.54
9:S7:131:PHE:HB3	9:S7:132:PRO:HD3	1.88	0.54
36:1:239:G:N7	92:1:4268:OHX:N4	2.55	0.54
36:1:980:A:H2'	36:1:981:U:C6	2.42	0.54
36:1:1767:C:H2'	36:1:1768:U:C6	2.43	0.54
36:1:3246:G:O6	92:1:4345:OHX:N4	2.40	0.54
40:L3:227:GLU:HG2	40:L3:270:ARG:HD3	1.89	0.54
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	1.89	0.54
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.71	0.54
45:L8:90:THR:HA	45:L8:214:LEU:HD21	1.89	0.54
46:L9:47:LYS:HZ2	50:M4:5:SER:HB2	1.72	0.54
49:M3:48:PRO:HA	49:M3:137:GLN:HB3	1.89	0.54
52:M6:73:PHE:CG	52:M6:78:ARG:HG2	2.43	0.54
72:O6:74:LYS:HD2	72:O6:80:PHE:HD2	1.72	0.54
79:Q3:73:THR:HG23	79:Q3:76:ALA:H	1.72	0.54
1:6:590:C:H5"	32:e0:43:ARG:HH12	1.73	0.54
1:6:1637:C:OP2	92:6:2211:OHX:N4	2.39	0.54
6:s4:160:VAL:HG13	6:s4:169:ILE:HG23	1.88	0.54
21:c9:86:ARG:HB2	21:c9:89:ARG:HB2	1.90	0.54
36:5:129:U:H2'	36:5:130:A:C8	2.42	0.54
36:5:1399:A:N1	38:8:7:U:O2'	2.38	0.54
36:5:3041:U:H2'	36:5:3042:U:H6	1.72	0.54
88:p0:105:VAL:HG23	88:p0:184:GLY:N	2.21	0.54
1:2:318:U:O4	92:2:2177:OHX:N5	2.40	0.54
1:2:703:G:H2'	1:2:704:C:H5'	1.88	0.54
1:2:1353:U:O4	92:2:2198:OHX:N1	2.40	0.54
1:2:1488:G:H5'	1:2:1489:U:OP1	2.08	0.54
92:2:2143:OHX:N6	92:2:2158:OHX:N2	2.55	0.54
36:1:660:A:OP1	41:L4:92:ASN:ND2	2.41	0.54
37:3:39:C:N3	48:M1:70:THR:HG23	2.22	0.54
40:L3:206:ASP:N	40:L3:206:ASP:OD1	2.39	0.54
41:L4:141:ARG:NH1	41:L4:180:LYS:HD3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:205:PRO:HB3	41:L4:247:PHE:CD2	2.42	0.54
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.08	0.54
46:L9:49:ASN:O	46:L9:52:LEU:N	2.41	0.54
52:M6:27:LEU:HD22	52:M6:101:ARG:HB2	1.88	0.54
64:N8:74:ASN:HB3	64:N8:115:LYS:HB2	1.89	0.54
1:6:235:G:H2'	1:6:236:A:C8	2.37	0.54
4:s2:225:LEU:HD13	24:d2:68:ARG:HA	1.88	0.54
80:c0:54:TYR:HD2	80:c0:72:GLY:HA2	1.72	0.54
36:5:73:C:O2'	49:m3:59:ARG:HG2	2.06	0.54
36:5:1064:A:H5"	36:5:1066:G:O4'	2.07	0.54
36:5:1650:G:N7	92:5:4451:OHX:N3	2.55	0.54
36:5:2355:G:H4'	53:m7:139:TYR:CE2	2.43	0.54
36:5:2404:A:H2'	36:5:2405:C:H5'	1.88	0.54
36:5:2530:G:H2'	36:5:2531:C:H5'	1.88	0.54
36:5:3276:G:H2'	36:5:3276:G:OP2	2.07	0.54
41:l4:135:VAL:O	41:l4:140:HIS:HB2	2.08	0.54
48:m1:110:ILE:HD13	48:m1:122:ILE:HD11	1.90	0.54
55:m9:43:LYS:O	55:m9:47:ASN:HB2	2.07	0.54
58:n2:37:LEU:O	58:n2:41:ILE:HG13	2.06	0.54
67:o1:29:ALA:HB3	67:o1:30:PRO:HD3	1.89	0.54
70:o4:87:GLU:OE1	70:o4:91:ARG:NH1	2.39	0.54
1:2:991:G:O2'	1:2:1013:A:N6	2.40	0.54
1:2:1492:A:O2'	1:2:1493:A:H8	1.91	0.54
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.88	0.54
20:C8:139:LYS:O	20:C8:143:ARG:NH1	2.41	0.54
36:1:528:U:H2'	36:1:529:A:C8	2.42	0.54
36:1:831:G:OP2	92:1:4499:OHX:N4	2.40	0.54
36:1:1081:U:OP1	92:1:4435:OHX:N6	2.40	0.54
36:1:1524:A:OP1	61:N5:92:LYS:NZ	2.39	0.54
37:3:48:U:O4	42:L5:58:LYS:HE2	2.07	0.54
1:6:315:A:O2'	92:6:2257:OHX:N1	2.40	0.54
1:6:654:C:H2'	1:6:655:G:C8	2.41	0.54
1:6:729:G:O2'	1:6:730:G:O5'	2.26	0.54
1:6:922:G:H2'	1:6:923:A:C8	2.42	0.54
1:6:1495:C:OP1	92:6:2324:OHX:N6	2.41	0.54
1:6:1558:U:H3	82:c5:122:THR:HG22	1.72	0.54
1:6:1620:C:H2'	1:6:1621:U:C6	2.41	0.54
1:6:1714:A:H2'	1:6:1715:G:O4'	2.07	0.54
5:s3:34:TYR:CE2	5:s3:37:VAL:HG13	2.38	0.54
36:5:528:U:H2'	36:5:529:A:C8	2.43	0.54
36:5:1691:U:H2'	36:5:1692:U:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3135:U:OP1	52:m6:148:LYS:HE2	2.07	0.54
49:m3:75:PHE:H	49:m3:97:VAL:HA	1.73	0.54
61:n5:103:TYR:O	61:n5:138:ARG:NH1	2.41	0.54
1:2:292:U:H2'	1:2:293:U:C6	2.42	0.54
1:2:839:U:H2'	1:2:840:U:H5'	1.89	0.54
5:S3:18:TYR:CE1	5:S3:37:VAL:HG23	2.42	0.54
36:1:595:G:C8	36:1:609:G:C6	2.95	0.54
36:1:1117:G:OP1	65:N9:4:SER:HB2	2.07	0.54
36:1:1565:G:N2	36:1:1574:C:N3	2.56	0.54
36:1:2947:G:C2	40:L3:250:ALA:HB1	2.42	0.54
36:1:3169:U:H2'	36:1:3170:A:O4'	2.07	0.54
49:M3:94:GLY:HA3	71:O5:116:TYR:OH	2.07	0.54
1:6:639:U:H1'	1:6:640:U:C5	2.43	0.54
1:6:709:C:O2	1:6:730:G:N2	2.40	0.54
1:6:886:U:H2'	1:6:887:A:H8	1.73	0.54
1:6:946:U:H2'	1:6:947:U:C6	2.42	0.54
3:s1:72:ASP:OD1	16:c4:114:ARG:NH1	2.40	0.54
23:d1:5:LYS:NZ	23:d1:5:LYS:HB3	2.22	0.54
36:5:290:G:H4'	51:m5:69:GLY:O	2.07	0.54
36:5:1654:A:C2'	36:5:1655:G:H5'	2.36	0.54
40:l3:153:LYS:HG2	40:l3:154:TYR:CZ	2.42	0.54
41:l4:60:THR:HG22	41:l4:62:ALA:N	2.22	0.54
56:n0:73:LYS:NZ	56:n0:97:VAL:O	2.39	0.54
70:o4:41:ARG:O	70:o4:43:LYS:HE3	2.07	0.54
1:2:46:A:N1	1:2:432:G:O2'	2.30	0.54
1:2:237:C:H5"	1:2:238:U:H5'	1.89	0.54
1:2:1313:A:O2'	1:2:1315:U:OP1	2.26	0.54
1:2:1597:A:C8	31:D9:14:TYR:CD2	2.96	0.54
3:S1:40:ASN:ND2	3:S1:42:ASN:O	2.37	0.54
19:C7:84:TYR:O	19:C7:85:VAL:HG13	2.07	0.54
36:1:92:G:OP2	36:1:93:C:H5"	2.08	0.54
36:1:2174:G:H8	36:1:2174:G:OP1	1.91	0.54
36:1:2259:A:OP2	92:1:4166:OHX:N2	2.40	0.54
36:1:2736:A:O3'	57:N1:71:SER:OG	2.25	0.54
36:1:2821:C:N3	92:1:4436:OHX:N6	2.55	0.54
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.07	0.54
41:L4:217:LYS:HG2	41:L4:220:ARG:HH21	1.72	0.54
46:L9:92:TYR:N	46:L9:92:TYR:CD1	2.74	0.54
47:M0:68:ALA:HB2	47:M0:158:LYS:HB2	1.90	0.54
48:M1:84:LEU:HD11	48:M1:163:PHE:HE1	1.72	0.54
61:N5:105:VAL:HG11	61:N5:126:LEU:HD22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:9:LEU:HB3	71:O5:17:LEU:HD21	1.90	0.54
1:6:1253:U:OP2	81:c2:46:ARG:NH2	2.32	0.54
7:s5:58:LEU:HD11	7:s5:167:ARG:NH1	2.23	0.54
36:5:982:C:H42	36:5:1101:G:H1	1.54	0.54
36:5:1283:C:OP1	88:p0:81:LYS:HD3	2.07	0.54
36:5:1573:G:C6	36:5:1574:C:H1'	2.43	0.54
36:5:3096:C:H2'	36:5:3097:C:C6	2.43	0.54
36:5:3164:C:H1'	36:5:3165:A:H5'	1.88	0.54
37:7:62:U:O3'	42:l5:285:ARG:NH1	2.41	0.54
38:8:83:C:H4'	38:8:85:G:N3	2.23	0.54
40:l3:286:GLY:HA3	40:l3:321:PHE:CE2	2.43	0.54
1:2:526:A:H2'	1:2:527:A:O4'	2.06	0.54
3:S1:39:GLU:HB3	3:S1:73:LEU:O	2.07	0.54
6:S4:5:PRO:HB2	6:S4:7:LYS:HE3	1.90	0.54
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.40	0.54
18:C6:82:ARG:HH22	18:C6:114:ARG:HB3	1.72	0.54
36:1:1722:U:OP1	55:M9:100:ARG:NH1	2.40	0.54
36:1:2899:C:C5	46:L9:171:ASP:HA	2.43	0.54
37:3:77:G:N2	37:3:102:A:OP2	2.25	0.54
44:L7:84:VAL:HG12	44:L7:117:VAL:HB	1.89	0.54
48:M1:143:ARG:HG2	48:M1:144:CYS:SG	2.47	0.54
54:M8:71:LEU:HD13	54:M8:99:THR:HG21	1.88	0.54
54:M8:89:ASP:OD1	54:M8:90:ASP:N	2.41	0.54
1:6:515:A:OP2	92:6:2198:OHX:N6	2.40	0.54
1:6:567:A:N1	1:6:583:C:H1'	2.23	0.54
1:6:578:U:O2	92:6:2250:OHX:N3	2.40	0.54
3:s1:119:THR:HB	3:s1:143:THR:HG23	1.90	0.54
36:5:2915:U:C5	40:l3:7:GLU:HG2	2.43	0.54
36:5:3003:G:HO2'	40:l3:92:TYR:HH	1.53	0.54
40:l3:46:PHE:CE2	40:l3:205:VAL:HG13	2.43	0.54
47:m0:47:PRO:O	47:m0:178:ARG:NH1	2.41	0.54
53:m7:25:SER:O	53:m7:29:THR:HG23	2.07	0.54
54:m8:158:HIS:H	54:m8:186:VAL:CG1	2.21	0.54
1:2:767:U:H6	11:S9:141:VAL:HA	1.72	0.54
1:2:929:A:OP2	1:2:931:C:N4	2.41	0.54
5:S3:61:GLU:O	5:S3:63:GLY:N	2.41	0.54
5:S3:79:TYR:CD2	5:S3:84:ILE:HG13	2.43	0.54
5:S3:167:PHE:HD1	5:S3:190:ARG:HD3	1.73	0.54
6:S4:37:LYS:HB2	6:S4:40:GLU:HG2	1.89	0.54
17:C5:14:THR:HB	17:C5:22:LEU:HB2	1.90	0.54
18:C6:46:PHE:O	18:C6:50:GLU:HG3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:38:ARG:NH2	28:D6:83:ILE:HG13	2.21	0.54
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.41	0.54
36:1:2314:U:O2'	36:1:2315:G:OP1	2.24	0.54
36:1:3050:U:OP2	92:1:4447:OHX:N2	2.41	0.54
36:1:3166:C:H2'	36:1:3167:A:O4'	2.08	0.54
39:L2:192:LYS:HD3	39:L2:193:ARG:HH22	1.72	0.54
44:L7:96:PRO:O	44:L7:99:PRO:HD2	2.07	0.54
45:L8:195:SER:O	45:L8:197:VAL:N	2.40	0.54
1:6:454:U:C4	6:s4:66:MET:HB3	2.42	0.54
13:c1:57:LYS:HD3	13:c1:131:ILE:HG23	1.90	0.54
36:5:992:A:H5"	57:n1:43:LYS:HD2	1.89	0.54
36:5:1003:A:H1'	42:l5:15:ARG:CZ	2.38	0.54
36:5:2988:C:P	52:m6:68:ARG:NH1	2.80	0.54
36:5:3112:G:O2'	46:l9:70:THR:HB	2.07	0.54
85:l8:52:TRP:NE1	85:l8:60:ARG:HH12	2.06	0.54
49:m3:106:GLN:HB3	72:o6:18:THR:OG1	2.08	0.54
59:n3:23:MET:HE3	59:n3:100:GLY:HA3	1.90	0.54
88:p0:44:GLU:CD	88:p0:99:VAL:HG13	2.32	0.54
1:2:430:G:OP2	92:2:2236:OHX:N5	2.41	0.54
1:2:491:C:H42	1:2:496:G:H1	1.56	0.54
1:2:823:G:H2'	1:2:824:G:C8	2.42	0.54
1:2:856:A:N6	9:S7:96:ARG:HB3	2.23	0.54
2:S0:64:ILE:HG23	2:S0:73:VAL:HG11	1.90	0.54
3:S1:86:LEU:HB3	3:S1:98:THR:OG1	2.08	0.54
16:C4:29:HIS:ND1	16:C4:29:HIS:O	2.41	0.54
19:C7:20:TYR:CD1	19:C7:38:ILE:HD11	2.42	0.54
36:1:132:C:H2'	36:1:133:U:H5"	1.89	0.54
36:1:1230:G:H2'	36:1:1231:A:H8	1.73	0.54
36:1:1724:U:H1'	36:1:1725:C:C6	2.42	0.54
36:1:2298:U:O4	36:1:2923:U:H5	1.91	0.54
36:1:2561:A:HO2'	36:1:2562:A:H8	1.56	0.54
36:1:2592:G:H4'	36:1:2594:C:C2	2.42	0.54
92:1:4486:OHX:N4	43:L6:129:GLU:HA	2.23	0.54
41:L4:130:ALA:HA	41:L4:148:ILE:HG23	1.90	0.54
47:M0:218:ALA:N	92:M0:307:OHX:N3	2.56	0.54
57:N1:68:THR:OG1	57:N1:69:LYS:N	2.38	0.54
64:N8:74:ASN:CB	64:N8:115:LYS:HB2	2.37	0.54
1:6:1065:A:N3	3:s1:146:GLN:NE2	2.56	0.54
1:6:1795:U:OP2	28:d6:4:LYS:NZ	2.37	0.54
3:s1:144:ARG:HB3	3:s1:208:GLN:HG2	1.90	0.54
80:c0:44:LYS:HA	80:c0:47:GLN:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:d1:40:ASP:HB3	23:d1:46:ILE:HD11	1.90	0.54
36:5:743:C:O2	54:m8:141:ARG:HD3	2.08	0.54
36:5:2361:A:OP2	92:5:4437:OHX:N2	2.41	0.54
36:5:2761:G:N7	78:q2:63:LYS:NZ	2.49	0.54
85:l8:70:LYS:HA	85:l8:235:GLY:HA3	1.89	0.54
85:l8:140:VAL:HG22	85:l8:166:LEU:HD21	1.89	0.54
57:n1:39:ILE:HD12	57:n1:102:ARG:HE	1.73	0.54
87:n4:20:LEU:HD23	87:n4:21:PHE:N	2.22	0.54
76:q0:103:LEU:HD13	76:q0:110:CYS:HA	1.89	0.54
1:2:123:G:H21	6:S4:146:THR:HG21	1.72	0.54
1:2:209:U:H2'	1:2:210:A:C8	2.43	0.54
7:S5:56:ALA:O	7:S5:57:SER:OG	2.24	0.54
9:S7:13:PRO:HB3	9:S7:14:THR:HB	1.90	0.54
18:C6:38:LEU:O	18:C6:40:GLU:N	2.40	0.54
18:C6:47:LYS:NZ	18:C6:50:GLU:OE2	2.40	0.54
18:C6:127:LYS:HA	18:C6:134:ALA:HA	1.90	0.54
36:1:1658:G:H2'	36:1:1659:U:C6	2.43	0.54
36:1:1808:G:O6	92:1:4216:OHX:N3	2.40	0.54
36:1:1887:A:OP1	92:1:4322:OHX:N3	2.41	0.54
36:1:2319:U:O4	92:1:4274:OHX:N2	2.41	0.54
36:1:2987:A:O2'	40:L3:259:HIS:HB3	2.08	0.54
49:M3:75:PHE:H	49:M3:97:VAL:HA	1.73	0.54
49:M3:174:ARG:HB2	72:O6:9:ILE:HD12	1.90	0.54
57:N1:82:ASN:N	57:N1:82:ASN:OD1	2.40	0.54
59:N3:74:MET:HG3	59:N3:102:ILE:HD13	1.90	0.54
2:s0:163:ASN:C	2:s0:165:ARG:H	2.12	0.54
7:s5:36:ALA:HB1	7:s5:42:LEU:HD12	1.89	0.54
7:s5:43:PHE:N	7:s5:46:TRP:O	2.36	0.54
9:s7:46:ILE:HG12	9:s7:60:ILE:HG23	1.89	0.54
11:s9:121:SER:HB3	11:s9:124:HIS:HB2	1.90	0.54
27:d5:54:VAL:HA	27:d5:57:TYR:CE1	2.42	0.54
36:5:627:U:H2'	36:5:628:A:C8	2.43	0.54
36:5:1064:A:H4'	36:5:1065:A:O5'	2.08	0.54
36:5:1796:G:O6	92:5:4526:OHX:N5	2.40	0.54
41:l4:144:LYS:O	92:l4:404:OHX:N4	2.41	0.54
87:n4:25:ASP:OD2	87:n4:25:ASP:N	2.40	0.54
61:n5:103:TYR:HB3	61:n5:135:ILE:HD11	1.90	0.54
73:o7:52:LYS:HA	73:o7:55:ARG:HD2	1.90	0.54
1:2:359:A:C2	25:D3:38:PHE:HB3	2.43	0.53
1:2:1487:A:H2'	1:2:1488:G:H8	1.74	0.53
13:C1:6:THR:HB	13:C1:9:SER:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:65:PRO:HG3	19:C7:78:ARG:HH21	1.72	0.53
34:SR:274:LEU:HD13	34:SR:313:TRP:CD2	2.43	0.53
36:1:980:A:OP2	36:1:980:A:H8	1.91	0.53
36:1:2207:A:H2'	36:1:2208:A:H5'	1.90	0.53
36:1:3006:A:H2'	36:1:3007:U:O4'	2.07	0.53
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.40	0.53
46:L9:69:ARG:HD3	46:L9:72:LYS:HD3	1.89	0.53
51:M5:73:ARG:NH1	51:M5:88:GLY:O	2.40	0.53
55:M9:104:ARG:C	55:M9:104:ARG:HE	2.16	0.53
57:N1:39:ILE:CD1	57:N1:102:ARG:HD3	2.38	0.53
1:6:320:U:H2'	1:6:321:C:H2'	1.90	0.53
1:6:1379:C:H5'	18:c6:10:PHE:CE2	2.42	0.53
6:s4:118:GLU:C	6:s4:120:SER:H	2.15	0.53
7:s5:190:ILE:O	7:s5:194:LEU:HB2	2.07	0.53
18:c6:110:THR:HA	18:c6:113:ASP:HB2	1.90	0.53
36:5:677:A:H4'	36:5:678:G:O5'	2.08	0.53
36:5:1447:G:H3'	53:m7:67:ILE:HD11	1.89	0.53
36:5:1486:G:H21	70:o4:6:THR:HG22	1.73	0.53
36:5:2227:C:H2'	36:5:2228:A:H5"	1.88	0.53
36:5:2440:G:O2'	36:5:2441:A:OP1	2.23	0.53
40:l3:117:ARG:NH1	40:l3:175:LYS:HD3	2.22	0.53
85:l8:133:LYS:HB2	85:l8:199:ALA:O	2.08	0.53
71:o5:6:ALA:O	71:o5:10:ARG:HG3	2.08	0.53
71:o5:17:LEU:HA	71:o5:20:GLN:HB2	1.90	0.53
1:2:1301:U:OP1	4:S2:88:LYS:HB2	2.08	0.53
1:2:1519:U:H2'	1:2:1520:U:C5	2.43	0.53
18:C6:58:ASP:O	18:C6:60:PHE:N	2.41	0.53
20:C8:86:LEU:HG	20:C8:99:HIS:HB2	1.89	0.53
22:D0:72:ASN:HD22	22:D0:74:GLU:H	1.57	0.53
28:D6:35:ALA:HB3	28:D6:37:LYS:HE3	1.90	0.53
36:1:3147:G:OP1	92:1:4345:OHX:N6	2.41	0.53
36:1:3178:A:C2	52:M6:115:LYS:HG2	2.43	0.53
40:L3:199:PHE:C	40:L3:201:LYS:H	2.16	0.53
41:L4:237:GLN:O	41:L4:246:ARG:HG3	2.09	0.53
56:N0:82:ASP:OD1	56:N0:87:THR:HB	2.08	0.53
1:6:1241:G:H5"	82:c5:102:PHE:CZ	2.42	0.53
1:6:1445:G:C6	33:e1:91:ILE:HB	2.44	0.53
9:s7:89:HIS:CG	9:s7:165:LYS:HG2	2.43	0.53
18:c6:46:PHE:HA	18:c6:49:TYR:HB2	1.90	0.53
26:d4:55:VAL:HG12	26:d4:75:VAL:HG13	1.90	0.53
26:d4:94:TYR:HB2	26:d4:96:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:268:A:C4	51:m5:12:ARG:HG3	2.44	0.53
36:5:1322:U:OP1	56:n0:117:ARG:NH2	2.39	0.53
67:o1:44:MET:HB3	67:o1:77:ARG:NH1	2.23	0.53
67:o1:88:PRO:HG2	67:o1:89:LEU:HD13	1.91	0.53
1:2:38:C:H2'	1:2:39:A:H5'	1.88	0.53
1:2:494:U:O2'	1:2:495:C:O5'	2.23	0.53
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	1.90	0.53
15:C3:94:LYS:HG2	15:C3:118:ILE:HD13	1.90	0.53
27:D5:41:ILE:HG13	27:D5:42:LEU:HG	1.89	0.53
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.26	0.53
36:1:2847:A:O4'	76:Q0:125:LYS:NZ	2.40	0.53
36:1:3029:A:C5	36:1:3030:G:H1'	2.44	0.53
92:1:4490:OHX:N5	53:M7:138:LYS:HE2	2.23	0.53
39:L2:10:LYS:HA	39:L2:16:PHE:CD2	2.43	0.53
40:L3:286:GLY:HA3	40:L3:321:PHE:CE2	2.44	0.53
47:M0:36:LEU:HD21	47:M0:69:ARG:HD3	1.91	0.53
62:N6:37:LYS:H	62:N6:37:LYS:HD3	1.73	0.53
62:N6:40:ARG:HG3	62:N6:45:ILE:O	2.08	0.53
72:O6:56:ARG:O	72:O6:60:LEU:HB2	2.08	0.53
1:6:25:C:OP2	1:6:25:C:H4'	2.09	0.53
1:6:542:A:H1'	1:6:543:C:H5'	1.90	0.53
1:6:1081:A:H1'	1:6:1082:C:C5	2.43	0.53
6:s4:184:THR:C	6:s4:189:LEU:HD13	2.33	0.53
27:d5:53:GLU:O	27:d5:56:THR:N	2.28	0.53
84:sM:65:THR:OG1	84:sM:66:ALA:N	2.41	0.53
36:5:304:G:C6	51:m5:178:HIS:HD2	2.27	0.53
36:5:929:A:H2'	36:5:930:U:C6	2.43	0.53
36:5:1390:A:H5'	36:5:1390:A:N3	2.23	0.53
36:5:1540:U:OP1	92:5:4348:OHX:N2	2.42	0.53
36:5:1758:G:H5'	58:n2:104:ARG:NH2	2.23	0.53
36:5:2801:A:O2'	36:5:2802:A:H2'	2.08	0.53
38:8:68:G:O6	92:8:232:OHX:N6	2.41	0.53
50:m4:47:ASP:OD1	50:m4:55:ARG:HB2	2.08	0.53
68:o2:21:HIS:CE1	68:o2:24:ARG:HD2	2.43	0.53
75:o9:9:ILE:HG22	75:o9:13:MET:HE2	1.90	0.53
1:2:158:U:O2'	1:2:159:U:H3'	2.08	0.53
1:2:226:A:H2'	1:2:227:U:H5'	1.91	0.53
1:2:855:A:C2	1:2:857:U:H1'	2.43	0.53
6:S4:163:ASP:HB3	6:S4:166:SER:O	2.09	0.53
23:D1:3:ASN:OD1	23:D1:7:GLN:HB2	2.08	0.53
36:1:3159:C:H2'	36:1:3160:U:C6	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:7:G:O3'	42:L5:33:ARG:NH2	2.42	0.53
37:3:26:C:H5'	42:L5:56:THR:HB	1.90	0.53
40:L3:18:PRO:HG2	40:L3:20:LYS:HD2	1.90	0.53
54:M8:93:ILE:HG13	54:M8:113:LYS:HE2	1.89	0.53
55:M9:105:LEU:HD12	55:M9:135:LYS:HD2	1.90	0.53
60:N4:9:SER:HA	60:N4:52:THR:HG22	1.91	0.53
1:6:1280:C:O2'	22:d0:70:THR:HG23	2.08	0.53
1:6:1482:C:OP2	1:6:1521:G:N1	2.42	0.53
13:c1:109:VAL:HG11	13:c1:125:VAL:HG21	1.90	0.53
16:c4:99:GLN:NE2	28:d6:46:GLU:HB3	2.23	0.53
20:c8:134:ARG:O	20:c8:136:GLN:NE2	2.41	0.53
36:5:1853:U:OP2	92:5:4313:OHX:N6	2.41	0.53
36:5:3094:A:H2'	36:5:3095:U:H6	1.73	0.53
53:m7:31:GLU:HG2	53:m7:60:PHE:HA	1.89	0.53
1:2:542:A:H5"	1:2:544:A:C8	2.44	0.53
15:C3:47:PRO:HG3	15:C3:75:LEU:HD22	1.90	0.53
21:C9:57:ARG:NH2	21:C9:80:TYR:HB3	2.21	0.53
21:C9:111:ILE:HG23	21:C9:113:ILE:HG13	1.90	0.53
36:1:845:G:O6	92:1:4155:OHX:N3	2.42	0.53
36:1:2338:C:OP1	40:L3:236:LYS:HE2	2.08	0.53
40:L3:303:LYS:HD2	40:L3:361:THR:HG21	1.89	0.53
73:O7:31:LYS:O	73:O7:33:THR:HG22	2.09	0.53
78:Q2:52:GLY:O	78:Q2:54:THR:HG23	2.08	0.53
1:6:340:U:H2'	1:6:341:A:C8	2.44	0.53
1:6:383:G:N7	92:6:2244:OHX:N5	2.56	0.53
1:6:1696:G:H2'	1:6:1698:G:O6	2.07	0.53
8:s6:57:ASP:HA	8:s6:106:LEU:HA	1.91	0.53
11:s9:171:ARG:HH11	11:s9:174:ARG:HB3	1.73	0.53
81:c2:63:VAL:HG13	81:c2:64:SER:N	2.23	0.53
82:c5:18:ARG:NH1	20:c8:90:ASN:OD1	2.41	0.53
82:c5:22:LEU:HA	82:c5:25:LEU:HD12	1.91	0.53
83:sR:66:HIS:HB3	83:sR:85:TRP:HB2	1.91	0.53
36:5:2814:G:OP1	41:l4:73:ARG:NH2	2.40	0.53
36:5:2979:U:O4	92:5:4409:OHX:N1	2.42	0.53
36:5:3123:A:OP2	92:5:4537:OHX:N5	2.42	0.53
36:5:3279:A:N6	36:5:3280:U:O4	2.41	0.53
39:l2:222:ALA:HB1	39:l2:224:THR:HG22	1.90	0.53
48:m1:28:ASP:OD2	48:m1:32:ARG:NH2	2.39	0.53
49:m3:3:ILE:HG21	64:n8:45:MET:HE3	1.90	0.53
51:m5:143:ARG:HH21	71:o5:92:LEU:HA	1.72	0.53
53:m7:59:PRO:HG3	53:m7:76:PHE:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:o7:28:HIS:ND1	73:o7:31:LYS:HB2	2.23	0.53
1:2:1102:G:OP1	24:D2:76:SER:OG	2.24	0.53
1:2:1139:A:OP2	92:2:2112:OHX:N5	2.41	0.53
2:S0:109:ASN:O	2:S0:112:THR:HG22	2.09	0.53
36:1:1450:G:OP1	92:1:4470:OHX:N1	2.42	0.53
36:1:3206:C:O2	56:N0:155:ARG:NH1	2.42	0.53
38:4:148:G:H2'	38:4:149:A:C8	2.44	0.53
41:L4:198:ARG:HD3	41:L4:199:TRP:NE1	2.23	0.53
54:M8:30:VAL:O	54:M8:34:THR:HG23	2.09	0.53
56:N0:80:ARG:HB3	56:N0:122:HIS:HB2	1.91	0.53
57:N1:108:ARG:HD2	57:N1:130:ARG:HD3	1.91	0.53
63:N7:53:VAL:HG11	63:N7:62:VAL:HG13	1.90	0.53
67:O1:13:THR:HG22	67:O1:72:ARG:HH11	1.74	0.53
1:6:58:U:O2'	1:6:451:A:N3	2.34	0.53
1:6:355:G:OP2	92:6:2163:OHX:N5	2.42	0.53
1:6:1653:C:O3'	77:q1:21:ARG:HD2	2.09	0.53
2:s0:55:GLU:OE2	23:d1:80:LYS:N	2.36	0.53
3:s1:23:PRO:HB3	3:s1:26:ARG:NH1	2.24	0.53
4:s2:161:LYS:HG3	4:s2:166:THR:HG22	1.91	0.53
11:s9:113:VAL:HG12	11:s9:119:ALA:HB2	1.89	0.53
28:d6:88:SER:O	28:d6:92:ARG:HG3	2.08	0.53
83:sR:5:GLU:HA	83:sR:317:THR:HA	1.91	0.53
36:5:528:U:H2'	36:5:529:A:H8	1.72	0.53
36:5:1369:A:O3'	64:n8:20:GLY:HA2	2.09	0.53
36:5:1386:A:H5"	41:l4:141:ARG:HH22	1.73	0.53
37:7:15:C:HO2'	42:l5:8:LYS:HD2	1.74	0.53
58:n2:98:THR:HG23	58:n2:104:ARG:HH21	1.74	0.53
63:n7:15:ARG:HD2	63:n7:79:HIS:CD2	2.44	0.53
78:q2:14:GLY:O	78:q2:18:ARG:HG3	2.09	0.53
1:2:1017:U:H2'	1:2:1018:U:C6	2.43	0.53
21:C9:134:ARG:HD3	21:C9:138:GLN:NE2	2.23	0.53
36:1:1047:A:N3	36:1:2633:U:O2'	2.39	0.53
42:L5:68:THR:HB	42:L5:71:GLY:O	2.09	0.53
46:L9:163:GLN:HB3	46:L9:166:ARG:HH11	1.74	0.53
48:M1:10:ARG:HB2	48:M1:133:ARG:HD3	1.91	0.53
48:M1:27:GLY:O	48:M1:31:THR:HG23	2.09	0.53
49:M3:159:VAL:HG13	64:N8:144:VAL:HG13	1.90	0.53
1:6:230:C:N3	1:6:235:G:N2	2.54	0.53
1:6:753:A:N7	6:s4:187:ARG:NH2	2.51	0.53
1:6:1229:G:O6	81:c2:47:GLU:HG2	2.09	0.53
5:s3:48:VAL:HB	5:s3:86:LEU:HD12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:202:LEU:H	5:s3:202:LEU:HD22	1.74	0.53
7:s5:68:ILE:HD13	7:s5:69:PHE:H	1.72	0.53
13:c1:76:VAL:HA	13:c1:119:VAL:HG13	1.90	0.53
82:c5:137:ARG:C	92:c5:202:OHX:N4	2.67	0.53
36:5:999:G:C6	36:5:1000:C:N4	2.77	0.53
85:l8:121:SER:O	85:l8:123:GLN:N	2.42	0.53
48:m1:28:ASP:HA	48:m1:31:THR:HG23	1.90	0.53
71:o5:4:VAL:CG1	71:o5:9:LEU:HD11	2.39	0.53
88:p0:4:ILE:HD13	88:p0:4:ILE:H	1.74	0.53
1:2:12:U:H2'	1:2:13:C:C6	2.44	0.53
1:2:885:G:H21	16:C4:123:SER:HB2	1.73	0.53
1:2:1290:U:H2'	1:2:1291:G:C8	2.43	0.53
1:2:1369:U:OP1	21:C9:119:LYS:NZ	2.41	0.53
1:2:1698:G:H22	1:2:1703:C:H42	1.56	0.53
3:S1:23:PRO:O	3:S1:27:LYS:HG2	2.09	0.53
5:S3:141:LYS:HD2	5:S3:179:GLN:HG3	1.90	0.53
17:C5:69:GLU:OE1	92:C5:202:OHX:N2	2.42	0.53
20:C8:29:VAL:O	20:C8:43:SER:OG	2.16	0.53
30:D8:32:PHE:CZ	30:D8:38:ARG:HB3	2.44	0.53
36:1:503:C:OP1	43:L6:26:ARG:NH1	2.41	0.53
36:1:679:U:H2'	36:1:680:G:C8	2.44	0.53
36:1:1556:C:O5'	36:1:2169:G:N2	2.41	0.53
38:4:85:G:C8	38:4:85:G:H3'	2.44	0.53
39:L2:83:HIS:CE1	39:L2:86:GLN:HB2	2.43	0.53
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.90	0.53
40:L3:80:ASP:OD1	40:L3:319:ASN:ND2	2.41	0.53
45:L8:74:THR:HB	45:L8:230:LYS:NZ	2.24	0.53
46:L9:20:ILE:HG13	50:M4:7:VAL:HG22	1.89	0.53
52:M6:38:ALA:O	52:M6:41:LEU:HB2	2.08	0.53
55:M9:96:ILE:O	55:M9:100:ARG:HG3	2.08	0.53
62:N6:90:VAL:HG23	62:N6:91:ASN:H	1.73	0.53
73:O7:5:THR:HA	73:O7:8:PHE:CD2	2.44	0.53
1:6:327:U:H1'	13:c1:10:GLU:HG2	1.89	0.53
1:6:918:U:H2'	1:6:919:A:H8	1.74	0.53
1:6:1558:U:H3	82:c5:122:THR:CG2	2.22	0.53
1:6:1638:G:C2	1:6:1639:C:H1'	2.44	0.53
3:s1:110:LEU:HD11	3:s1:213:ARG:HD2	1.89	0.53
3:s1:138:PHE:CD2	3:s1:214:LYS:HB3	2.44	0.53
81:c2:75:VAL:O	81:c2:79:ALA:N	2.41	0.53
15:c3:132:VAL:HG23	15:c3:134:VAL:HG13	1.91	0.53
82:c5:29:SER:OG	82:c5:32:ASP:OD2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1141:C:O2'	36:5:1153:A:N3	2.31	0.53
36:5:2869:U:O2'	36:5:2873:U:OP1	2.26	0.53
42:l5:68:THR:HB	42:l5:71:GLY:O	2.09	0.53
46:l9:77:ASN:HA	46:l9:80:THR:CG2	2.39	0.53
53:m7:22:LEU:HD12	53:m7:146:ILE:HG13	1.91	0.53
54:m8:120:GLU:OE2	54:m8:130:ARG:NH2	2.32	0.53
1:2:1347:U:O2	1:2:1516:A:H5'	2.07	0.53
3:S1:33:LYS:NZ	3:S1:95:ASN:HD21	2.07	0.53
3:S1:171:ILE:HA	3:S1:174:LYS:HE3	1.90	0.53
6:S4:122:LYS:HB3	6:S4:164:LEU:HD21	1.89	0.53
7:S5:184:PHE:CD1	7:S5:185:ARG:HG3	2.44	0.53
13:C1:125:VAL:CG1	13:C1:137:PHE:HB3	2.39	0.53
20:C8:5:VAL:HG23	27:D5:42:LEU:HD23	1.90	0.53
36:1:73:C:C2	49:M3:59:ARG:HD3	2.44	0.53
36:1:1565:G:N2	36:1:1574:C:C2	2.77	0.53
36:1:2186:U:H5'	36:1:2314:U:OP2	2.08	0.53
36:1:2853:A:O3'	47:M0:64:ALA:HB2	2.09	0.53
36:1:3159:C:H2'	36:1:3160:U:H6	1.74	0.53
36:1:3312:U:O4	92:1:4467:OHX:N6	2.41	0.53
39:L2:192:LYS:HB3	39:L2:193:ARG:NH2	2.23	0.53
40:L3:107:ALA:HA	40:L3:199:PHE:CD2	2.43	0.53
41:L4:141:ARG:CZ	41:L4:180:LYS:HD3	2.38	0.53
70:O4:16:ARG:O	70:O4:19:LYS:HG3	2.09	0.53
72:O6:21:THR:O	72:O6:21:THR:OG1	2.26	0.53
1:6:151:G:H21	8:s6:13:GLN:CD	2.16	0.53
1:6:647:G:H22	1:6:687:G:H22	1.54	0.53
1:6:871:G:O2'	29:d7:67:THR:O	2.21	0.53
1:6:1783:C:H2'	1:6:1784:C:H6	1.73	0.53
2:s0:119:ARG:HB3	2:s0:119:ARG:NH1	2.24	0.53
7:s5:133:VAL:HG22	7:s5:198:LEU:HD13	1.90	0.53
11:s9:36:LEU:HD11	11:s9:105:LEU:HD21	1.91	0.53
16:c4:42:VAL:HG13	16:c4:67:VAL:HG23	1.90	0.53
16:c4:61:MET:O	16:c4:65:GLN:HG2	2.08	0.53
83:sR:255:ALA:HA	83:sR:260:ILE:HA	1.89	0.53
36:5:1024:G:N2	36:5:1026:A:OP2	2.42	0.53
36:5:1340:G:H2'	36:5:1341:U:C6	2.43	0.53
38:8:142:C:OP1	51:m5:38:ARG:NH1	2.42	0.53
51:m5:27:VAL:HB	51:m5:122:ASN:ND2	2.24	0.53
1:2:543:C:H5'	1:2:543:C:O2	2.09	0.53
1:2:1180:C:O2	17:C5:128:HIS:HE1	1.92	0.53
3:S1:134:VAL:O	3:S1:218:LEU:HD22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:49:TYR:HB3	18:C6:53:LEU:HD11	1.91	0.53
20:C8:35:ILE:O	20:C8:38:VAL:HG23	2.08	0.53
28:D6:10:ARG:HB3	28:D6:34:LYS:HA	1.91	0.53
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.90	0.53
36:1:1555:U:H5	36:1:1559:A:H61	1.57	0.53
36:1:2554:A:H62	79:Q3:62:LYS:HZ2	1.56	0.53
36:1:3081:C:OP1	92:1:4504:OHX:N5	2.42	0.53
44:L7:159:GLN:O	44:L7:160:ARG:C	2.51	0.53
45:L8:78:PHE:C	45:L8:80:TYR:H	2.16	0.53
54:M8:19:PRO:HD3	54:M8:53:PHE:CD1	2.43	0.53
62:N6:58:VAL:HB	62:N6:63:LYS:O	2.09	0.53
66:O0:42:ILE:HD11	66:O0:67:VAL:HG22	1.90	0.53
75:O9:20:ASN:O	75:O9:20:ASN:ND2	2.42	0.53
1:6:42:G:C8	92:6:2323:OHX:N6	2.76	0.53
1:6:1255:G:H4'	1:6:1256:A:OP1	2.08	0.53
7:s5:163:SER:HB2	30:d8:48:VAL:HG22	1.91	0.53
9:s7:173:TYR:CE1	9:s7:181:ILE:HD11	2.44	0.53
80:c0:70:GLU:O	80:c0:73:VAL:HG22	2.09	0.53
84:sM:68:ARG:HH22	84:sM:72:ARG:HD3	1.74	0.53
36:5:155:G:H1'	72:o6:26:ILE:HD13	1.90	0.53
36:5:209:A:H4'	36:5:211:A:N7	2.23	0.53
36:5:996:A:C2	36:5:1054:A:C4	2.97	0.53
36:5:2105:G:H2'	36:5:2106:A:H8	1.73	0.53
36:5:2874:G:O2'	36:5:2875:U:H5"	2.09	0.53
38:8:41:A:O2'	73:o7:59:THR:HG22	2.09	0.53
40:l3:25:ILE:HD11	40:l3:334:ARG:HE	1.74	0.53
46:l9:19:SER:HB3	50:m4:6:ILE:H	1.74	0.53
56:n0:77:VAL:HG11	56:n0:106:LEU:HG	1.91	0.53
77:q1:7:LYS:HE2	77:q1:11:ARG:NH1	2.24	0.53
89:p2:16:UNK:O	89:p2:18:UNK:N	2.42	0.53
1:2:1623:C:H2'	1:2:1624:C:C6	2.43	0.52
5:S3:137:VAL:HB	5:S3:185:LYS:HB2	1.91	0.52
7:S5:93:LEU:HD23	7:S5:172:ILE:HG23	1.92	0.52
7:S5:166:ARG:HB2	30:D8:46:GLY:HA3	1.91	0.52
15:C3:142:GLU:HG3	15:C3:145:THR:HG23	1.90	0.52
36:1:283:G:O6	36:1:304:G:H1'	2.09	0.52
36:1:1127:G:H5'	47:M0:118:ALA:O	2.09	0.52
39:L2:27:ALA:O	39:L2:128:ARG:NH2	2.42	0.52
48:M1:8:PRO:HD2	48:M1:9:MET:H	1.74	0.52
50:M4:108:ARG:NH2	52:M6:197:LEU:HA	2.24	0.52
53:M7:10:ASN:HD22	53:M7:13:LYS:NZ	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:11:GLU:OE2	67:O1:74:ARG:NH2	2.42	0.52
67:O1:13:THR:CG2	67:O1:72:ARG:HH11	2.22	0.52
71:O5:21:LEU:HD21	71:O5:51:ILE:HG23	1.90	0.52
1:6:272:U:O3'	87:n4:123:ARG:HD3	2.10	0.52
7:s5:166:ARG:HA	7:s5:169:ASN:HB2	1.91	0.52
25:d3:57:LEU:HD13	32:e0:4:VAL:HG13	1.91	0.52
26:d4:135:ASP:HA	92:d4:201:OHX:N4	2.24	0.52
27:d5:85:LYS:HG3	27:d5:86:GLU:H	1.74	0.52
36:5:123:A:C6	36:5:150:A:C5	2.97	0.52
36:5:438:A:H2'	36:5:494:G:N2	2.24	0.52
40:l3:113:GLU:HB3	40:l3:176:ALA:HB2	1.91	0.52
87:n4:27:LYS:HB3	87:n4:29:PHE:HE2	1.73	0.52
1:2:161:U:OP2	8:S6:87:ARG:NH2	2.42	0.52
11:S9:151:ASP:N	11:S9:151:ASP:OD1	2.42	0.52
11:S9:174:ARG:HA	11:S9:174:ARG:HE	1.74	0.52
36:1:27:C:H1'	36:1:328:U:H1'	1.91	0.52
36:1:353:G:O2'	36:1:364:G:O6	2.23	0.52
36:1:533:A:OP2	92:1:4478:OHX:N5	2.42	0.52
36:1:796:U:H2'	36:1:797:U:C6	2.44	0.52
36:1:814:U:H5'	73:O7:45:ARG:HH12	1.75	0.52
51:M5:155:VAL:HG23	51:M5:156:HIS:ND1	2.24	0.52
1:6:140:A:N6	1:6:281:G:OP1	2.39	0.52
24:d2:7:LEU:HD11	24:d2:37:PHE:HD2	1.74	0.52
36:5:817:A:C4	73:o7:13:ASN:O	2.62	0.52
36:5:835:G:O2'	36:5:857:G:N2	2.31	0.52
36:5:1047:A:N3	36:5:2633:U:O2'	2.41	0.52
36:5:1307:G:OP2	52:m6:59:ARG:NH1	2.43	0.52
36:5:1500:G:H2'	36:5:1501:U:O4'	2.09	0.52
36:5:3150:A:H5'	40:l3:129:ALA:O	2.09	0.52
37:7:121:U:H5"	42:l5:265:TYR:HE1	1.74	0.52
44:l7:33:ARG:HH12	44:l7:34:LYS:HE2	1.74	0.52
46:l9:166:ARG:HH21	46:l9:168:ARG:NH1	2.07	0.52
53:m7:141:SER:O	53:m7:143:PRO:HD3	2.10	0.52
72:o6:35:ASN:OD1	72:o6:35:ASN:N	2.40	0.52
1:2:76:A:H5'	1:2:77:U:OP2	2.10	0.52
1:2:751:G:H2'	1:2:752:A:C8	2.44	0.52
1:2:1487:A:OP1	31:D9:34:TYR:OH	2.20	0.52
1:2:1584:G:O2'	1:2:1610:G:O6	2.16	0.52
1:2:1681:A:H1'	8:S6:66:GLY:HA2	1.91	0.52
1:2:1701:A:H3'	1:2:1702:A:H5"	1.91	0.52
92:2:2074:OHX:N2	92:S2:303:OHX:N6	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:70:LEU:HD11	3:S1:79:HIS:HB3	1.90	0.52
14:C2:124:LYS:O	14:C2:126:TRP:N	2.39	0.52
19:C7:71:PHE:HD1	19:C7:73:LEU:HB3	1.75	0.52
20:C8:125:ILE:HG12	35:SM:61:ILE:HG23	1.91	0.52
36:1:2163:C:H4'	39:L2:7:ASN:O	2.09	0.52
36:1:2534:G:H2'	36:1:2535:A:C8	2.44	0.52
36:1:2611:U:H2'	36:1:2612:U:C6	2.44	0.52
36:1:2697:A:H2'	36:1:2698:G:C8	2.45	0.52
64:N8:46:ASP:OD1	64:N8:46:ASP:N	2.42	0.52
66:O0:45:ALA:O	66:O0:48:THR:HG22	2.09	0.52
71:O5:34:GLN:OE1	71:O5:38:ARG:NH1	2.34	0.52
1:6:1688:U:H2'	1:6:1689:A:C8	2.44	0.52
5:s3:68:GLU:OE2	80:c0:67:THR:OG1	2.27	0.52
13:c1:86:ILE:HD12	13:c1:109:VAL:HG11	1.91	0.52
36:5:361:A:OP1	73:o7:24:ARG:NH1	2.43	0.52
36:5:622:A:H2'	36:5:623:U:O4'	2.09	0.52
36:5:1573:G:C5	36:5:1574:C:H1'	2.44	0.52
36:5:2790:A:O2'	92:5:4325:OHX:N4	2.42	0.52
92:5:4182:OHX:N5	38:8:17:A:OP1	2.41	0.52
38:8:99:C:OP1	61:n5:53:HIS:NE2	2.41	0.52
78:q2:17:CYS:SG	78:q2:77:CYS:HB3	2.49	0.52
1:2:947:U:H2'	1:2:948:G:C8	2.45	0.52
1:2:1000:C:O2'	1:2:1002:G:N7	2.41	0.52
1:2:1559:A:C6	20:C8:134:ARG:HD2	2.44	0.52
1:2:1595:U:H3	1:2:1600:A:H2	1.57	0.52
1:2:1640:C:H1'	1:2:1763:A:N1	2.25	0.52
2:S0:172:LEU:O	2:S0:176:LEU:HG	2.09	0.52
20:C8:84:TRP:HA	20:C8:89:GLN:NE2	2.25	0.52
28:D6:35:ALA:O	28:D6:36:ILE:HB	2.08	0.52
36:1:79:U:OP2	92:1:4152:OHX:N5	2.43	0.52
36:1:291:C:H5"	51:M5:68:ARG:HH12	1.73	0.52
46:L9:41:ILE:O	46:L9:41:ILE:HD13	2.09	0.52
65:N9:14:ARG:NH1	65:N9:18:ARG:HD2	2.24	0.52
74:O8:58:ASP:OD2	74:O8:61:LYS:N	2.24	0.52
1:6:675:U:H2'	1:6:676:G:C8	2.45	0.52
1:6:819:G:O2'	1:6:821:U:OP2	2.28	0.52
1:6:1171:A:H2'	1:6:1172:G:C8	2.44	0.52
1:6:1699:G:N1	1:6:1701:A:H5"	2.24	0.52
6:s4:230:GLU:HB2	6:s4:233:LYS:NZ	2.24	0.52
13:c1:101:GLU:OE2	25:d3:16:ARG:NH2	2.31	0.52
16:c4:131:GLY:O	16:c4:133:ARG:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:c5:129:GLY:HA3	84:sM:74:LYS:HG2	1.92	0.52
23:d1:17:CYS:HB2	23:d1:56:SER:HB3	1.91	0.52
26:d4:11:LYS:HB2	26:d4:24:VAL:HG23	1.90	0.52
36:5:136:G:H5'	71:o5:95:PHE:CG	2.44	0.52
36:5:408:A:N6	38:8:15:G:H1'	2.24	0.52
36:5:1232:C:C5	36:5:1261:G:H2'	2.45	0.52
36:5:1412:G:OP1	68:o2:105:ARG:NH2	2.43	0.52
36:5:1486:G:O6	92:5:4338:OHX:N4	2.42	0.52
36:5:2724:U:H3	36:5:2732:G:H1	1.57	0.52
85:l8:108:ARG:HA	85:l8:111:LYS:HB3	1.92	0.52
70:o4:54:ILE:HD11	70:o4:78:GLY:HA2	1.89	0.52
1:2:1332:C:H6	1:2:1332:C:O5'	1.91	0.52
1:2:1532:U:O3'	20:C8:27:LYS:NZ	2.42	0.52
4:S2:53:ILE:HG23	4:S2:56:ILE:HD12	1.91	0.52
6:S4:163:ASP:O	6:S4:164:LEU:HB2	2.10	0.52
9:S7:11:GLN:HG3	9:S7:13:PRO:HD2	1.92	0.52
19:C7:61:ILE:HD11	19:C7:69:ILE:HG13	1.91	0.52
20:C8:4:VAL:HG13	27:D5:82:HIS:CG	2.44	0.52
34:SR:38:ARG:HG2	34:SR:67:ILE:HG23	1.90	0.52
36:1:13:A:OP2	92:1:4477:OHX:N5	2.43	0.52
36:1:1029:G:H2'	36:1:1030:A:C8	2.44	0.52
41:L4:269:SER:C	41:L4:271:LYS:H	2.17	0.52
44:L7:27:ALA:HA	44:L7:30:ARG:HB3	1.91	0.52
63:N7:5:LEU:HD11	66:O0:35:ARG:HD2	1.90	0.52
73:O7:14:LYS:NZ	75:O9:51:ILE:HD11	2.24	0.52
1:6:386:G:C6	1:6:387:A:N6	2.78	0.52
1:6:532:U:OP1	11:s9:132:ARG:NH2	2.42	0.52
1:6:788:A:OP2	6:s4:108:ARG:NH1	2.40	0.52
1:6:1677:C:OP1	10:s8:42:ARG:NH1	2.42	0.52
1:6:1680:G:O6	92:6:2310:OHX:N4	2.42	0.52
2:s0:13:ASP:OD1	2:s0:179:ARG:NH2	2.30	0.52
3:s1:109:LYS:O	3:s1:112:SER:OG	2.27	0.52
11:s9:129:ILE:HA	11:s9:134:ILE:CG1	2.40	0.52
11:s9:134:ILE:HD13	11:s9:141:VAL:O	2.09	0.52
80:c0:3:MET:HE1	80:c0:45:ALA:HB2	1.92	0.52
36:5:1135:A:C2	36:5:1136:A:C8	2.98	0.52
40:l3:366:GLY:O	40:l3:368:GLY:N	2.42	0.52
49:m3:144:THR:C	49:m3:146:PRO:HD3	2.35	0.52
51:m5:168:GLY:O	51:m5:172:ARG:HB2	2.09	0.52
1:2:97:C:H2'	1:2:98:U:H6	1.74	0.52
1:2:1518:C:OP1	92:2:2171:OHX:N5	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1639:C:OP1	92:2:2242:OHX:N4	2.42	0.52
28:D6:10:ARG:HB2	28:D6:34:LYS:HG3	1.91	0.52
36:1:796:U:H2'	36:1:797:U:H6	1.75	0.52
36:1:1767:C:H2'	36:1:1768:U:H6	1.75	0.52
36:1:2710:C:H2'	36:1:2711:C:C6	2.45	0.52
36:1:3041:U:OP1	59:N3:12:ARG:NH1	2.42	0.52
36:1:3233:C:H2'	36:1:3234:A:C8	2.44	0.52
38:4:35:C:H5"	73:O7:70:VAL:HG11	1.91	0.52
39:L2:118:GLU:HG2	39:L2:156:LYS:NZ	2.25	0.52
58:N2:18:ASP:HA	58:N2:62:VAL:HG22	1.91	0.52
72:O6:5:THR:HG23	72:O6:12:ASN:C	2.34	0.52
79:Q3:81:SER:HA	79:Q3:84:ARG:HB2	1.91	0.52
1:6:190:C:N4	1:6:196:G:O6	2.42	0.52
1:6:1241:G:H2'	1:6:1242:A:O4'	2.10	0.52
1:6:1313:A:O2'	1:6:1315:U:OP1	2.27	0.52
2:s0:185:ARG:HG2	23:d1:45:ALA:O	2.09	0.52
6:s4:73:ASP:OD2	6:s4:122:LYS:NZ	2.27	0.52
10:s8:136:SER:O	10:s8:140:GLU:HG3	2.10	0.52
20:c8:45:LEU:HD11	21:c9:36:ILE:HG22	1.92	0.52
36:5:215:G:OP1	62:n6:12:ARG:HG2	2.08	0.52
36:5:1686:U:O2	36:5:1688:U:H1'	2.10	0.52
36:5:3048:A:H5"	40:l3:53:MET:HE3	1.91	0.52
39:l2:65:ASP:HB3	39:l2:68:LYS:O	2.09	0.52
46:l9:22:SER:OG	46:l9:39:LYS:NZ	2.39	0.52
46:l9:166:ARG:HD2	46:l9:168:ARG:HH11	1.75	0.52
68:o2:82:LEU:HD22	68:o2:117:ILE:HD13	1.90	0.52
1:2:780:A:C8	26:D4:8:ARG:HB3	2.45	0.52
1:2:838:G:O6	92:2:2243:OHX:N2	2.43	0.52
5:S3:29:LEU:HD21	5:S3:69:LEU:HD11	1.92	0.52
36:1:789:A:H2'	36:1:790:U:C6	2.44	0.52
36:1:2225:U:H2'	36:1:2226:U:C6	2.44	0.52
36:1:2663:G:H5'	42:L5:152:ARG:HD3	1.91	0.52
41:L4:140:HIS:H	41:L4:180:LYS:HE2	1.74	0.52
49:M3:136:GLU:HG3	49:M3:136:GLU:O	2.09	0.52
49:M3:174:ARG:CZ	72:O6:9:ILE:HD13	2.40	0.52
59:N3:89:ASP:OD1	59:N3:91:VAL:HG13	2.09	0.52
62:N6:91:ASN:C	62:N6:93:ALA:H	2.17	0.52
72:O6:89:GLU:O	72:O6:93:ILE:HG12	2.09	0.52
5:s3:42:THR:OG1	5:s3:44:THR:O	2.27	0.52
8:s6:67:VAL:HG23	8:s6:68:LEU:O	2.09	0.52
13:c1:46:LYS:O	13:c1:50:GLU:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:c5:85:ILE:HG22	82:c5:112:LEU:HD23	1.92	0.52
36:5:20:A:OP2	71:o5:90:ARG:NH1	2.43	0.52
36:5:541:U:H2'	36:5:542:G:H8	1.72	0.52
36:5:1393:A:N3	36:5:1419:A:O2'	2.36	0.52
36:5:2228:A:H2'	36:5:2229:A:C8	2.45	0.52
40:l3:169:THR:HG23	40:l3:171:LEU:H	1.74	0.52
40:l3:296:THR:HG21	40:l3:357:LYS:HA	1.90	0.52
44:l7:40:LYS:HE2	44:l7:170:GLU:OE1	2.10	0.52
46:l9:75:VAL:HA	46:l9:78:MET:HE2	1.92	0.52
47:m0:77:THR:HG22	47:m0:82:ARG:HA	1.92	0.52
51:m5:136:ASP:OD2	51:m5:138:GLN:HG2	2.10	0.52
87:n4:63:ILE:O	87:n4:65:GLU:N	2.43	0.52
62:n6:31:LEU:HB3	62:n6:101:PRO:HG3	1.91	0.52
71:o5:47:VAL:O	71:o5:51:ILE:HG13	2.10	0.52
1:2:489:C:H42	1:2:497:G:H22	1.57	0.52
1:2:780:A:H8	26:D4:8:ARG:HB3	1.73	0.52
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	1.90	0.52
10:S8:9:HIS:O	10:S8:10:LYS:HB3	2.09	0.52
10:S8:69:SER:HB2	13:C1:22:ASN:OD1	2.09	0.52
28:D6:75:VAL:O	28:D6:79:ILE:N	2.38	0.52
34:SR:81:LEU:HD12	34:SR:115:ILE:HD12	1.91	0.52
35:SM:107:ASN:CG	35:SM:112:ASP:HB3	2.33	0.52
36:1:565:U:H2'	36:1:566:G:H8	1.75	0.52
36:1:1273:A:O2'	36:1:1274:A:OP1	2.25	0.52
36:1:1430:U:H2'	64:N8:9:ARG:HH22	1.75	0.52
36:1:1851:G:OP2	92:1:4212:OHX:N4	2.43	0.52
36:1:2582:C:OP1	92:1:4397:OHX:N6	2.43	0.52
36:1:2842:U:OP1	36:1:2844:C:N4	2.43	0.52
37:3:106:U:H2'	37:3:107:C:C6	2.45	0.52
38:4:18:U:OP1	92:4:241:OHX:N2	2.43	0.52
39:L2:5:ILE:HG22	39:L2:208:ASP:O	2.09	0.52
44:L7:168:ILE:O	44:L7:172:ASN:ND2	2.41	0.52
50:M4:20:VAL:HG22	50:M4:66:THR:OG1	2.10	0.52
1:6:950:C:H4'	15:c3:104:ARG:NH2	2.24	0.52
2:s0:126:PRO:HB2	2:s0:152:PRO:HG2	1.90	0.52
8:s6:98:ARG:HD3	8:s6:99:GLY:H	1.75	0.52
36:5:345:G:O2'	38:8:25:G:N3	2.43	0.52
36:5:576:C:OP1	44:l7:241:LYS:NZ	2.42	0.52
36:5:3393:U:H2'	36:5:3394:U:C6	2.45	0.52
39:l2:43:GLY:O	39:l2:88:ILE:N	2.37	0.52
43:l6:172:HIS:C	43:l6:173:MET:HG2	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:m8:133:LYS:HB2	54:m8:135:GLN:HE22	1.75	0.52
1:2:109:G:H1	1:2:305:C:H42	1.57	0.52
1:2:1351:G:C2	1:2:1375:A:C2	2.97	0.52
17:C5:33:PHE:HA	17:C5:36:LEU:HD23	1.92	0.52
20:C8:120:ARG:HD2	35:SM:58:GLU:OE1	2.09	0.52
24:D2:30:SER:HB2	24:D2:61:ILE:HG13	1.92	0.52
36:1:345:G:OP1	36:1:1429:G:N1	2.36	0.52
36:1:916:G:N1	39:L2:207:VAL:HG21	2.25	0.52
36:1:1305:U:N1	40:L3:257:PRO:HG3	2.25	0.52
36:1:1807:G:C5'	63:N7:135:ARG:HH22	2.22	0.52
36:1:3380:U:O4	92:1:4168:OHX:N4	2.43	0.52
42:L5:131:LEU:HD22	42:L5:131:LEU:H	1.74	0.52
43:L6:56:LYS:HD2	43:L6:98:VAL:HG13	1.91	0.52
57:N1:82:ASN:HA	65:N9:21:ILE:HD13	1.91	0.52
1:6:17:C:H2'	1:6:18:C:C6	2.44	0.52
1:6:152:U:N3	1:6:163:G:N2	2.58	0.52
5:s3:11:LEU:HD13	22:d0:29:THR:HG23	1.90	0.52
15:c3:151:ASN:O	92:c3:201:OHX:N3	2.42	0.52
20:c8:12:GLN:NE2	20:c8:13:HIS:O	2.43	0.52
27:d5:49:ARG:O	27:d5:53:GLU:HB2	2.10	0.52
84:sM:64:LYS:O	84:sM:66:ALA:N	2.42	0.52
36:5:408:A:H61	38:8:15:G:H1'	1.74	0.52
36:5:1013:G:H2'	36:5:1014:U:O4'	2.09	0.52
36:5:2155:G:O2'	39:l2:227:ARG:NH2	2.42	0.52
36:5:3121:U:H1'	36:5:3122:A:H5"	1.92	0.52
36:5:3278:C:O2'	36:5:3279:A:OP2	2.24	0.52
41:l4:74:ILE:HG13	41:l4:75:PRO:HD2	1.91	0.52
69:o3:54:ARG:NH1	69:o3:64:ILE:HD11	2.25	0.52
1:2:442:C:H2'	1:2:443:C:H6	1.73	0.52
1:2:702:G:HO2'	1:2:703:G:H8	1.57	0.52
1:2:1426:C:H5"	35:SM:93:ARG:HH12	1.74	0.52
1:2:1563:C:H2'	1:2:1564:U:C6	2.45	0.52
6:S4:71:LYS:HA	6:S4:76:VAL:O	2.09	0.52
6:S4:95:THR:HG22	26:D4:16:PRO:HG2	1.92	0.52
8:S6:163:THR:HA	8:S6:168:THR:HA	1.92	0.52
11:S9:171:ARG:HH12	11:S9:174:ARG:HG3	1.75	0.52
18:C6:113:ASP:CG	18:C6:115:THR:H	2.18	0.52
34:SR:28:GLY:N	34:SR:75:ALA:O	2.35	0.52
36:1:226:C:O5'	92:1:4501:OHX:N2	2.43	0.52
36:1:829:U:H3	36:1:895:A:H62	1.58	0.52
36:1:1145:G:H5'	68:O2:46:PHE:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2229:A:OP1	92:1:4480:OHX:N3	2.43	0.52
36:1:2550:U:C6	45:L8:37:GLY:HA3	2.45	0.52
40:L3:70:ARG:HH22	59:N3:120:LYS:HE3	1.74	0.52
64:N8:79:TRP:CE3	64:N8:82:ILE:HD12	2.45	0.52
78:Q2:74:CYS:CB	78:Q2:77:CYS:SG	2.98	0.52
1:6:221:A:C2'	1:6:222:A:H5'	2.40	0.52
1:6:1087:A:H5'	1:6:1298:U:O4	2.09	0.52
2:s0:142:PRO:HB3	23:d1:34:ILE:HD13	1.92	0.52
5:s3:167:PHE:O	5:s3:190:ARG:HG2	2.10	0.52
21:c9:33:TYR:HD1	21:c9:34:VAL:H	1.56	0.52
24:d2:36:LYS:O	24:d2:40:VAL:HG23	2.10	0.52
33:e1:88:PRO:HB2	33:e1:89:LYS:HD3	1.92	0.52
83:sR:309:VAL:HG23	83:sR:311:ARG:HH12	1.75	0.52
36:5:252:U:H4'	36:5:253:A:H5"	1.92	0.52
36:5:567:G:O6	92:5:4387:OHX:N2	2.42	0.52
36:5:826:G:O6	92:5:4219:OHX:N2	2.43	0.52
36:5:2766:U:O4	92:5:4373:OHX:N1	2.43	0.52
36:5:3165:A:H2'	36:5:3166:C:C6	2.45	0.52
46:l9:9:GLN:O	46:l9:72:LYS:NZ	2.33	0.52
46:l9:181:VAL:HG11	46:l9:184:LYS:HE2	1.92	0.52
61:n5:137:ASN:HB3	61:n5:142:ILE:HG13	1.91	0.52
1:2:121:U:O2'	6:S4:33:ALA:O	2.19	0.51
1:2:924:A:H2'	1:2:925:G:C8	2.45	0.51
1:2:1067:C:H5"	3:S1:150:VAL:CG1	2.39	0.51
1:2:1389:C:O2'	19:C7:52:GLY:HA3	2.10	0.51
1:2:1507:G:O6	92:2:2203:OHX:N5	2.42	0.51
1:2:1590:G:H2'	1:2:1591:C:H6	1.75	0.51
1:2:1689:A:H2'	1:2:1690:G:H8	1.74	0.51
5:S3:175:VAL:HG13	5:S3:182:LEU:HB2	1.91	0.51
17:C5:121:ILE:HG23	17:C5:123:TYR:H	1.74	0.51
26:D4:14:SER:O	26:D4:16:PRO:HD3	2.10	0.51
36:1:419:G:N7	92:1:4107:OHX:N6	2.57	0.51
36:1:1495:U:H5	36:1:1835:A:C2	2.28	0.51
36:1:3047:U:O2'	36:1:3048:A:H5'	2.10	0.51
39:L2:204:MET:HE2	39:L2:209:HIS:HB2	1.91	0.51
42:L5:236:LEU:HA	42:L5:239:ILE:HD12	1.90	0.51
45:L8:32:LYS:HD3	45:L8:34:PHE:CZ	2.45	0.51
45:L8:82:LEU:HD12	45:L8:83:ASP:H	1.74	0.51
46:L9:117:PHE:HB3	46:L9:124:ARG:HH21	1.75	0.51
72:O6:98:ARG:H	72:O6:98:ARG:HD2	1.76	0.51
78:Q2:59:HIS:O	78:Q2:61:LYS:N	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:33:GLN:HB3	79:Q3:69:TYR:HB3	1.92	0.51
1:6:884:A:H2'	1:6:885:G:C8	2.45	0.51
82:c5:87:PRO:HA	82:c5:90:ILE:HG13	1.92	0.51
36:5:508:U:O4	92:5:4279:OHX:N3	2.42	0.51
36:5:1614:C:H2'	36:5:1615:C:C6	2.44	0.51
36:5:1657:C:O2'	36:5:1797:A:OP2	2.23	0.51
36:5:3155:U:H4'	36:5:3156:U:OP2	2.08	0.51
41:l4:170:LYS:HE3	41:l4:175:HIS:ND1	2.25	0.51
46:l9:180:TYR:HB2	76:q0:85:LEU:HD13	1.92	0.51
63:n7:95:VAL:HG21	63:n7:113:VAL:HG11	1.92	0.51
1:2:515:A:OP2	92:2:2117:OHX:N3	2.43	0.51
1:2:838:G:N7	92:2:2243:OHX:N2	2.59	0.51
1:2:1490:C:H4'	1:2:1491:U:OP1	2.09	0.51
2:S0:4:PRO:HB2	2:S0:7:PHE:HB2	1.91	0.51
4:S2:234:PRO:O	4:S2:235:LEU:HB2	2.09	0.51
12:C0:8:ARG:HD2	12:C0:12:HIS:CE1	2.45	0.51
12:C0:80:LEU:C	12:C0:82:LEU:H	2.19	0.51
16:C4:85:ALA:H	16:C4:119:THR:CG2	2.21	0.51
29:D7:54:VAL:O	29:D7:63:LEU:HB2	2.09	0.51
36:1:1939:G:OP1	55:M9:77:GLY:HA3	2.10	0.51
36:1:2719:U:O4	92:1:4400:OHX:N3	2.44	0.51
36:1:2875:U:C4	92:1:4446:OHX:N4	2.78	0.51
38:4:45:C:H2'	38:4:46:G:O4'	2.10	0.51
38:4:121:U:H2'	38:4:122:U:C6	2.46	0.51
41:L4:89:ALA:C	41:L4:91:GLY:H	2.19	0.51
44:L7:88:ARG:HD2	44:L7:90:LYS:O	2.10	0.51
53:M7:13:LYS:HB3	53:M7:152:GLU:HB2	1.92	0.51
61:N5:92:LYS:HE3	61:N5:110:VAL:O	2.11	0.51
74:O8:17:ARG:O	74:O8:19:ASP:N	2.44	0.51
1:6:32:U:O4	92:6:2184:OHX:N6	2.43	0.51
1:6:753:A:H62	6:s4:187:ARG:NH2	2.07	0.51
1:6:1645:G:OP2	92:6:2295:OHX:N3	2.43	0.51
9:s7:64:VAL:HG22	9:s7:94:ALA:HB1	1.92	0.51
81:c2:35:ALA:HA	81:c2:126:TRP:HA	1.92	0.51
36:5:90:C:H2'	36:5:91:G:H5'	1.91	0.51
36:5:269:G:P	51:m5:44:ARG:HH22	2.33	0.51
36:5:1895:A:O2'	36:5:3053:G:H4'	2.09	0.51
36:5:2767:U:O3'	78:q2:31:GLY:HA3	2.10	0.51
40:l3:53:MET:CG	40:l3:77:THR:HG22	2.40	0.51
46:l9:117:PHE:O	46:l9:120:ASP:HB2	2.09	0.51
47:m0:153:ARG:HG3	47:m0:165:ILE:HD12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:n5:103:TYR:O	61:n5:105:VAL:HG23	2.10	0.51
67:o1:51:LEU:HD22	67:o1:55:LEU:HD12	1.91	0.51
68:o2:79:VAL:HG13	68:o2:111:ARG:HG2	1.92	0.51
71:o5:54:VAL:O	71:o5:58:ILE:HG13	2.10	0.51
71:o5:101:THR:HG22	71:o5:104:GLN:HB2	1.92	0.51
1:2:319:U:H1'	1:2:323:A:C4	2.46	0.51
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.43	0.51
1:2:652:G:H1	1:2:682:C:N4	2.08	0.51
1:2:706:A:N1	1:2:734:A:N6	2.58	0.51
1:2:720:G:H1'	1:2:721:U:H5"	1.93	0.51
1:2:1132:A:OP1	25:D3:30:LYS:HE2	2.10	0.51
1:2:1186:U:O4	1:2:1200:G:N2	2.43	0.51
1:2:1482:C:O2'	18:C6:72:GLY:O	2.28	0.51
1:2:1670:G:O6	92:2:2254:OHX:N5	2.43	0.51
10:S8:155:SER:O	10:S8:159:GLN:HG3	2.10	0.51
36:1:240:U:H4'	36:1:241:G:OP1	2.09	0.51
36:1:364:G:OP1	41:L4:60:THR:HG23	2.10	0.51
36:1:818:C:N3	36:1:920:A:H5'	2.25	0.51
36:1:835:G:N2	36:1:857:G:O2'	2.42	0.51
36:1:1915:A:H2'	36:1:1916:U:C6	2.45	0.51
37:3:121:U:OP2	42:L5:265:TYR:OH	2.24	0.51
46:L9:20:ILE:HD12	46:L9:45:PHE:CD1	2.46	0.51
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.91	0.51
49:M3:64:LYS:HE3	64:N8:69:TRP:CD1	2.45	0.51
59:N3:10:LYS:NZ	59:N3:56:ASP:OD1	2.38	0.51
59:N3:24:ASN:ND2	59:N3:97:ASP:OD1	2.42	0.51
71:O5:62:GLN:O	71:O5:66:VAL:HG23	2.10	0.51
71:O5:85:THR:HB	71:O5:88:LEU:HB2	1.93	0.51
1:6:986:G:OP2	92:6:2215:OHX:N2	2.44	0.51
1:6:1199:G:O6	22:d0:67:THR:HG22	2.11	0.51
1:6:1445:G:N1	33:e1:87:THR:O	2.43	0.51
2:s0:88:LYS:HB3	2:s0:202:TYR:CZ	2.45	0.51
3:s1:173:THR:O	3:s1:177:GLN:HB2	2.11	0.51
11:s9:64:GLU:HA	11:s9:69:ARG:HD3	1.93	0.51
36:5:787:G:H2'	36:5:788:C:C6	2.46	0.51
36:5:1018:G:H2'	36:5:1019:G:O4'	2.10	0.51
36:5:2215:A:O5'	36:5:2215:A:H8	1.93	0.51
36:5:3060:C:OP1	92:5:4374:OHX:N5	2.43	0.51
41:l4:138:ARG:HH21	41:l4:240:PRO:HB2	1.74	0.51
47:m0:72:ALA:O	47:m0:76:MET:HG2	2.10	0.51
55:m9:167:ARG:HB3	55:m9:167:ARG:NH1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:o2:32:TRP:CZ2	68:o2:53:PRO:HD2	2.45	0.51
69:o3:6:ARG:HG3	69:o3:8:TYR:CE1	2.46	0.51
1:2:38:C:C2'	1:2:39:A:H5'	2.40	0.51
1:2:795:U:C5	1:2:796:A:C8	2.98	0.51
1:2:1477:G:H2'	1:2:1478:G:C8	2.46	0.51
1:2:1682:U:O2'	1:2:1683:C:H5'	2.11	0.51
4:S2:139:ILE:CD1	4:S2:191:ALA:HB1	2.40	0.51
13:C1:3:THR:O	13:C1:4:GLU:HB3	2.10	0.51
19:C7:35:CYS:HA	19:C7:38:ILE:HG22	1.91	0.51
24:D2:37:PHE:CD2	24:D2:103:ILE:HD12	2.45	0.51
36:1:1447:G:H3'	53:M7:67:ILE:CD1	2.40	0.51
36:1:2898:G:H5"	36:1:2899:C:H5'	1.92	0.51
42:L5:234:ASP:OD2	42:L5:234:ASP:N	2.44	0.51
44:L7:244:ASN:HD22	44:L7:244:ASN:C	2.18	0.51
47:M0:77:THR:HG22	47:M0:82:ARG:HA	1.93	0.51
47:M0:171:TRP:O	47:M0:174:THR:HG22	2.11	0.51
53:M7:138:LYS:HD2	53:M7:140:GLU:CD	2.35	0.51
59:N3:93:LEU:HD23	59:N3:93:LEU:H	1.76	0.51
1:6:234:G:H2'	1:6:235:G:O4'	2.10	0.51
1:6:637:C:O2'	1:6:638:U:H5'	2.09	0.51
2:s0:28:ASN:O	2:s0:150:ASP:HB3	2.10	0.51
80:c0:23:ALA:O	80:c0:24:LYS:HB3	2.09	0.51
20:c8:14:ILE:HD12	20:c8:23:ASP:HA	1.93	0.51
31:d9:19:ARG:CD	31:d9:32:ARG:HD2	2.41	0.51
36:5:1368:U:H5'	68:o2:43:ARG:NH1	2.25	0.51
36:5:1534:A:H62	36:5:1586:G:H2'	1.75	0.51
36:5:1581:C:OP2	36:5:1581:C:H4'	2.11	0.51
36:5:3218:A:H5"	36:5:3219:G:C5	2.45	0.51
40:l3:210:GLU:O	40:l3:213:GLU:HB2	2.10	0.51
46:l9:163:GLN:O	46:l9:166:ARG:HG3	2.11	0.51
70:o4:47:CYS:SG	70:o4:81:CYS:SG	3.08	0.51
1:2:131:C:O2'	1:2:132:U:OP1	2.29	0.51
1:2:487:G:H3'	1:2:488:G:H5"	1.90	0.51
12:C0:11:ILE:HD11	12:C0:42:VAL:HG22	1.93	0.51
12:C0:56:LYS:HE3	12:C0:58:GLN:HG2	1.92	0.51
32:E0:42:ARG:HB3	32:E0:42:ARG:HH11	1.75	0.51
36:1:54:C:O2'	36:1:1547:G:H1'	2.11	0.51
36:1:601:U:H2'	36:1:602:A:O4'	2.11	0.51
36:1:685:G:P	49:M3:35:ARG:NH1	2.84	0.51
36:1:787:G:H2'	36:1:788:C:C6	2.45	0.51
36:1:1695:U:O2'	36:1:1749:A:N1	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2107:A:H2	36:1:3344:A:C8	2.29	0.51
36:1:2355:G:H4'	53:M7:139:TYR:CD2	2.45	0.51
36:1:3011:A:N1	36:1:3043:C:O2'	2.40	0.51
36:1:3345:G:O6	92:1:4443:OHX:N3	2.44	0.51
44:L7:86:VAL:HG21	44:L7:127:LEU:HD21	1.93	0.51
1:6:193:U:C2	1:6:195:G:H1'	2.45	0.51
4:s2:78:ASP:CB	4:s2:104:VAL:HG12	2.40	0.51
7:s5:62:VAL:HG13	7:s5:89:ILE:HG12	1.93	0.51
28:d6:10:ARG:HD3	28:d6:34:LYS:HA	1.91	0.51
28:d6:12:LYS:HD2	28:d6:16:GLY:H	1.75	0.51
36:5:150:A:H2'	36:5:151:A:H5'	1.92	0.51
36:5:1032:C:H5'	36:5:1033:U:OP2	2.11	0.51
36:5:2714:G:N3	36:5:2714:G:H5"	2.26	0.51
36:5:3057:U:H5'	36:5:3086:A:H61	1.74	0.51
37:7:15:C:O2'	42:l5:8:LYS:HD2	2.10	0.51
41:l4:327:LEU:HA	44:l7:166:ASN:ND2	2.26	0.51
47:m0:93:PRO:HA	47:m0:126:ALA:O	2.10	0.51
78:q2:16:THR:OG1	78:q2:17:CYS:N	2.42	0.51
1:2:1381:U:H4'	22:D0:59:PRO:HG3	1.93	0.51
1:2:1629:G:H2'	1:2:1630:U:C6	2.46	0.51
2:S0:136:ALA:HB1	2:S0:141:ILE:HB	1.93	0.51
3:S1:62:LYS:C	3:S1:64:ARG:H	2.15	0.51
4:S2:35:TRP:CZ2	4:S2:37:PRO:HB3	2.46	0.51
5:S3:18:TYR:HE1	5:S3:37:VAL:HG23	1.76	0.51
19:C7:27:ASP:CG	19:C7:30:THR:HG23	2.36	0.51
20:C8:69:ILE:HG22	20:C8:73:MET:HE2	1.92	0.51
36:1:1334:U:H5"	44:L7:206:LYS:HB3	1.93	0.51
46:L9:163:GLN:O	46:L9:166:ARG:HD3	2.11	0.51
49:M3:119:TYR:O	49:M3:123:ILE:HG23	2.11	0.51
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	2.11	0.51
60:N4:4:GLU:HG2	60:N4:30:ARG:CD	2.41	0.51
75:O9:44:TRP:CH2	75:O9:45:ARG:HG3	2.45	0.51
1:6:340:U:H2'	1:6:341:A:H8	1.75	0.51
1:6:681:U:H4'	1:6:682:C:OP1	2.10	0.51
1:6:710:U:H5'	1:6:711:U:OP2	2.10	0.51
1:6:1160:A:H2'	1:6:1161:C:C6	2.45	0.51
1:6:1722:A:H1'	8:s6:67:VAL:HA	1.92	0.51
1:6:1783:C:H2'	1:6:1784:C:C6	2.45	0.51
3:s1:149:GLN:HE21	3:s1:151:LYS:HG2	1.76	0.51
4:s2:89:GLN:HG3	4:s2:93:GLY:O	2.11	0.51
6:s4:10:LYS:NZ	11:s9:2:PRO:HB3	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:d7:34:ASP:O	29:d7:79:PHE:HA	2.11	0.51
36:5:662:U:H2'	36:5:663:C:C6	2.46	0.51
36:5:996:A:H2'	36:5:997:A:O4'	2.10	0.51
36:5:1877:U:OP1	92:5:4213:OHX:N3	2.44	0.51
36:5:2653:C:OP1	78:q2:89:LYS:HB2	2.09	0.51
42:l5:60:ILE:HB	42:l5:80:SER:HB3	1.92	0.51
63:n7:16:GLY:O	63:n7:18:TYR:N	2.42	0.51
69:o3:11:GLY:HA3	69:o3:98:VAL:HG12	1.90	0.51
1:2:1571:C:OP2	92:2:2218:OHX:N1	2.43	0.51
2:S0:179:ARG:O	2:S0:183:ARG:HG3	2.11	0.51
3:S1:35:PRO:HB2	3:S1:38:PHE:HE2	1.76	0.51
3:S1:63:GLY:HA2	3:S1:88:VAL:O	2.11	0.51
17:C5:24:LYS:O	17:C5:28:MET:HB2	2.11	0.51
20:C8:56:LYS:HD3	20:C8:60:GLU:HG3	1.93	0.51
34:SR:19:TRP:HB2	34:SR:38:ARG:HD2	1.91	0.51
36:1:408:A:N6	38:4:15:G:H1'	2.26	0.51
36:1:770:G:O6	92:1:4466:OHX:N3	2.44	0.51
36:1:1110:U:H2'	36:1:1111:U:C6	2.46	0.51
36:1:1722:U:H5"	55:M9:99:LEU:HD12	1.92	0.51
39:L2:118:GLU:HG2	39:L2:156:LYS:HZ3	1.76	0.51
40:L3:187:SER:HB3	40:L3:190:GLU:OE1	2.10	0.51
47:M0:191:LYS:HB3	47:M0:213:PHE:CE2	2.46	0.51
51:M5:16:SER:O	51:M5:20:ARG:HG2	2.11	0.51
51:M5:150:TRP:CH2	51:M5:151:ILE:HG12	2.46	0.51
55:M9:86:GLU:OE2	55:M9:91:SER:OG	2.27	0.51
1:6:448:C:OP1	6:s4:29:PRO:HD3	2.09	0.51
1:6:1097:U:H4'	1:6:1098:U:H5'	1.92	0.51
1:6:1151:A:H4'	1:6:1766:A:C5	2.46	0.51
2:s0:120:LEU:HD21	2:s0:144:ILE:HD11	1.92	0.51
36:5:529:A:H2'	36:5:530:G:O4'	2.10	0.51
36:5:2234:G:O6	92:5:4218:OHX:N4	2.43	0.51
36:5:2696:A:H2'	36:5:2697:A:C8	2.46	0.51
36:5:3299:A:N6	36:5:3315:G:H1	2.08	0.51
44:l7:88:ARG:NH1	44:l7:91:GLY:O	2.44	0.51
1:2:1002:G:H2'	1:2:1003:A:H5'	1.92	0.51
1:2:1147:A:H2'	1:2:1148:C:H6	1.76	0.51
1:2:1390:U:OP1	19:C7:5:ARG:HD2	2.11	0.51
10:S8:8:ARG:HH21	10:S8:21:PHE:H	1.58	0.51
11:S9:89:ASP:HB2	11:S9:90:LYS:HE2	1.93	0.51
16:C4:114:ARG:HA	28:D6:62:TYR:CZ	2.46	0.51
22:D0:80:GLU:HG3	31:D9:54:LYS:HZ3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:181:U:O3'	73:O7:75:LYS:HD3	2.10	0.51
36:1:500:C:H2'	36:1:501:A:H8	1.76	0.51
36:1:943:U:H3'	64:N8:13:GLY:HA2	1.92	0.51
36:1:1713:G:O6	66:O0:28:LYS:NZ	2.33	0.51
36:1:2777:G:H5"	36:1:2778:G:OP1	2.10	0.51
92:1:4228:OHX:N5	37:3:86:U:O2	2.44	0.51
38:4:131:A:H5"	61:N5:93:TYR:CE2	2.45	0.51
38:4:149:A:N3	45:L8:55:TYR:OH	2.34	0.51
40:L3:92:TYR:CE2	40:L3:101:SER:HB3	2.46	0.51
43:L6:65:ILE:HD11	43:L6:77:ARG:HB3	1.92	0.51
45:L8:225:LYS:O	45:L8:229:VAL:HG23	2.10	0.51
50:M4:60:LEU:HD13	56:N0:152:LEU:HD11	1.93	0.51
53:M7:122:ALA:HB3	53:M7:143:PRO:HB2	1.92	0.51
62:N6:86:THR:HG22	62:N6:96:PRO:HA	1.92	0.51
66:O0:24:THR:HG23	66:O0:30:THR:HG22	1.91	0.51
78:Q2:74:CYS:HB3	78:Q2:77:CYS:SG	2.50	0.51
1:6:686:C:H2'	1:6:687:G:C8	2.45	0.51
1:6:736:C:H2'	1:6:737:A:H8	1.76	0.51
1:6:772:G:N2	1:6:774:A:O2'	2.43	0.51
1:6:1234:A:H4'	33:e1:146:SER:HB3	1.91	0.51
2:s0:74:VAL:HG22	2:s0:96:THR:HG23	1.92	0.51
11:s9:133:HIS:HD2	11:s9:162:SER:CB	2.22	0.51
83:sR:54:PHE:CE2	83:sR:312:VAL:HG11	2.45	0.51
36:5:109:A:N1	36:5:322:U:O2'	2.41	0.51
36:5:419:G:N2	38:8:5:U:C2	2.79	0.51
36:5:944:C:H4'	68:o2:33:ARG:HH11	1.75	0.51
36:5:1178:G:O6	69:o3:20:LYS:NZ	2.44	0.51
36:5:2115:G:H22	36:5:2120:A:H1'	1.75	0.51
36:5:2148:U:O2'	39:l2:182:ALA:HB2	2.10	0.51
42:l5:136:GLU:H	42:l5:136:GLU:CD	2.17	0.51
48:m1:19:LEU:HD13	48:m1:125:MET:SD	2.51	0.51
52:m6:98:ALA:HA	52:m6:101:ARG:NH1	2.26	0.51
72:o6:40:VAL:O	72:o6:44:VAL:HG23	2.11	0.51
76:q0:77:ILE:O	76:q0:78:ILE:HG23	2.10	0.51
1:2:116:U:H2'	1:2:117:U:C6	2.46	0.51
1:2:220:A:H5"	1:2:832:U:H1'	1.93	0.51
1:2:1584:G:H22	1:2:1611:A:P	2.34	0.51
1:2:1584:G:N2	1:2:1611:A:OP2	2.33	0.51
2:S0:198:MET:SD	19:C7:88:VAL:HG13	2.51	0.51
5:S3:168:ILE:HG22	5:S3:189:MET:HB2	1.92	0.51
18:C6:95:LYS:HE3	18:C6:96:TYR:CZ	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:63:ARG:HG3	21:C9:67:MET:HE1	1.92	0.51
36:1:180:C:H2'	36:1:181:U:C6	2.46	0.51
36:1:531:G:N7	92:1:4376:OHX:N5	2.59	0.51
36:1:715:A:H8	64:N8:115:LYS:HG2	1.75	0.51
36:1:871:U:H2'	36:1:872:U:C6	2.46	0.51
36:1:1234:G:O6	92:1:4342:OHX:N3	2.43	0.51
36:1:2244:A:H5"	39:L2:243:THR:OG1	2.10	0.51
36:1:2880:U:H1'	40:L3:250:ALA:HB3	1.93	0.51
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.46	0.51
53:M7:105:LYS:HB3	53:M7:107:LEU:HD13	1.92	0.51
1:6:78:A:H1'	8:s6:175:ILE:HG12	1.91	0.51
1:6:152:U:C2	1:6:163:G:N2	2.79	0.51
1:6:380:U:O3'	11:s9:2:PRO:HA	2.11	0.51
1:6:1067:C:H2'	1:6:1068:C:C6	2.44	0.51
1:6:1537:C:O2'	1:6:1540:G:O6	2.24	0.51
7:s5:37:GLN:OE1	18:c6:53:LEU:HD22	2.10	0.51
8:s6:5:ILE:HG12	8:s6:111:LEU:HD12	1.93	0.51
16:c4:85:ALA:H	16:c4:119:THR:HG22	1.76	0.51
83:sR:255:ALA:H	83:sR:292:LEU:HD11	1.76	0.51
36:5:2606:G:N7	92:5:4442:OHX:N3	2.59	0.51
36:5:2724:U:OP1	57:n1:57:TYR:OH	2.26	0.51
36:5:2940:A:N7	40:l3:2:SER:HA	2.26	0.51
42:l5:40:HIS:CE1	57:n1:69:LYS:HA	2.45	0.51
46:l9:112:ILE:HB	46:l9:126:VAL:HB	1.92	0.51
86:m2:62:UNK:N	86:m2:73:UNK:O	2.44	0.51
57:n1:131:GLN:HG3	57:n1:132:PRO:HD2	1.93	0.51
66:o0:40:LYS:HB3	66:o0:101:LEU:HD11	1.93	0.51
1:2:1418:G:C2	1:2:1419:G:C8	2.98	0.51
1:2:1657:U:H4'	1:2:1658:G:O5'	2.11	0.51
1:2:1711:C:H2'	1:2:1712:A:H5"	1.93	0.51
4:S2:227:PRO:HG3	4:S2:230:TRP:CZ2	2.46	0.51
12:C0:8:ARG:HD2	12:C0:12:HIS:HE1	1.76	0.51
22:D0:18:GLN:O	22:D0:96:PRO:HA	2.11	0.51
35:SM:70:ASN:O	35:SM:74:LYS:HD3	2.11	0.51
36:1:354:U:OP1	92:O7:109:OHX:N4	2.44	0.51
36:1:1010:G:N2	47:M0:193:ASP:OD2	2.44	0.51
36:1:2384:A:N1	52:M6:96:LYS:HE2	2.26	0.51
36:1:2947:G:N3	40:L3:250:ALA:HB1	2.26	0.51
36:1:3181:C:HO2'	52:M6:164:SER:HG	1.59	0.51
40:L3:178:LEU:HD12	40:L3:179:ALA:N	2.26	0.51
54:M8:150:VAL:HA	54:M8:153:PHE:CD1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:O4:71:THR:HG22	70:O4:77:GLY:HA3	1.93	0.51
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	2.11	0.51
1:6:189:C:H2'	1:6:190:C:H5'	1.93	0.51
1:6:249:U:H3'	1:6:250:C:H5'	1.92	0.51
1:6:330:G:O2'	10:s8:33:PRO:HB3	2.11	0.51
1:6:973:A:H5'	36:5:848:A:C2	2.46	0.51
1:6:1331:A:OP1	19:c7:45:ARG:NH2	2.43	0.51
1:6:1458:G:H5"	1:6:1459:C:OP2	2.10	0.51
1:6:1738:U:H2'	1:6:1739:C:C6	2.46	0.51
4:s2:203:LYS:O	4:s2:206:THR:HG23	2.11	0.51
7:s5:161:ASP:OD2	30:d8:42:ARG:NH1	2.44	0.51
20:c8:15:LEU:H	20:c8:15:LEU:HD22	1.76	0.51
24:d2:15:ASN:ND2	24:d2:71:LYS:HG3	2.19	0.51
36:5:66:A:N3	51:m5:176:LYS:HE2	2.26	0.51
36:5:992:A:O2'	36:5:993:G:H5'	2.11	0.51
36:5:1556:C:H2'	36:5:2169:G:C6	2.46	0.51
36:5:3165:A:H2'	36:5:3166:C:H6	1.76	0.51
47:m0:86:HIS:O	47:m0:138:VAL:HA	2.10	0.51
48:m1:133:ARG:HD3	48:m1:152:HIS:CD2	2.46	0.51
56:n0:46:GLN:HG2	56:n0:51:VAL:O	2.11	0.51
70:o4:9:ARG:NH2	70:o4:34:HIS:HB2	2.26	0.51
88:p0:189:GLN:OE1	88:p0:196:VAL:HG22	2.11	0.51
89:p1:38:UNK:O	89:p1:42:UNK:N	2.44	0.51
1:2:107:C:H1'	1:2:362:G:O2'	2.12	0.50
1:2:114:C:H5'	1:2:114:C:H6	1.75	0.50
6:S4:9:LEU:HD12	6:S4:30:ARG:HA	1.92	0.50
11:S9:93:LEU:O	11:S9:96:VAL:HG22	2.11	0.50
18:C6:32:ASN:N	18:C6:67:VAL:O	2.28	0.50
24:D2:11:LEU:HD12	24:D2:74:VAL:HB	1.93	0.50
36:1:1243:G:N2	36:1:1244:A:N7	2.58	0.50
36:1:2415:C:H5"	39:L2:207:VAL:HG23	1.92	0.50
36:1:2746:A:H2	42:L5:146:LEU:HB3	1.76	0.50
37:3:46:A:OP1	42:L5:158:ARG:HG2	2.11	0.50
42:L5:148:ILE:HD11	42:L5:160:PHE:CZ	2.46	0.50
53:M7:92:GLN:HA	53:M7:95:LEU:HB2	1.93	0.50
54:M8:170:ARG:HG3	54:M8:171:LYS:N	2.26	0.50
1:6:325:G:H4'	13:c1:83:THR:HG21	1.93	0.50
1:6:329:G:H5'	10:s8:99:ALA:HB3	1.93	0.50
1:6:1133:A:H2'	1:6:1134:C:O4'	2.11	0.50
1:6:1595:U:N3	1:6:1600:A:H2	2.01	0.50
9:s7:135:ILE:HG23	9:s7:152:VAL:HG13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:114:GLU:HG2	10:s8:119:GLN:O	2.11	0.50
26:d4:20:ARG:HH11	26:d4:22:GLN:NE2	2.08	0.50
36:5:2552:C:H2'	66:o0:50:VAL:HG11	1.92	0.50
92:5:4403:OHX:N3	38:8:43:A:OP1	2.44	0.50
39:l2:172:GLY:HA3	79:q3:68:ALA:N	2.21	0.50
42:l5:258:LYS:O	42:l5:258:LYS:HG2	2.10	0.50
57:n1:88:ARG:CZ	65:n9:33:LYS:HD2	2.41	0.50
73:o7:52:LYS:HG3	73:o7:55:ARG:HH11	1.76	0.50
1:2:558:U:H2'	1:2:558:U:O2	2.11	0.50
1:2:584:C:H1'	32:E0:18:THR:HG21	1.92	0.50
2:S0:9:LEU:HD23	2:S0:54:TRP:CD2	2.46	0.50
6:S4:23:LEU:HD13	11:S9:4:ALA:HB3	1.93	0.50
9:S7:96:ARG:CZ	9:S7:124:LYS:HB3	2.42	0.50
12:C0:1:MET:HG2	12:C0:2:LEU:H	1.76	0.50
12:C0:14:TYR:OH	12:C0:34:GLU:OE1	2.15	0.50
33:E1:102:VAL:HG13	33:E1:103:LEU:H	1.74	0.50
36:1:112:U:O2'	36:1:113:C:OP2	2.24	0.50
36:1:256:G:H4'	71:O5:111:PHE:HZ	1.75	0.50
36:1:1165:A:H2'	36:1:1166:G:O4'	2.11	0.50
36:1:2107:A:H2	36:1:3344:A:H8	1.59	0.50
40:L3:122:TRP:CZ2	40:L3:127:LYS:HD3	2.47	0.50
41:L4:77:VAL:HG11	41:L4:84:ARG:HG3	1.93	0.50
41:L4:135:VAL:HA	41:L4:245:GLY:O	2.11	0.50
42:L5:86:TYR:CE1	42:L5:247:ILE:HA	2.47	0.50
46:L9:91:ARG:HH21	46:L9:91:ARG:HG3	1.76	0.50
49:M3:138:VAL:HB	71:O5:118:ILE:HB	1.92	0.50
55:M9:115:ILE:HD12	55:M9:142:ILE:HD13	1.93	0.50
56:N0:148:LEU:HD12	56:N0:149:LYS:N	2.26	0.50
77:Q1:8:LYS:HD3	77:Q1:12:ARG:NH2	2.26	0.50
1:6:400:A:H5"	10:s8:25:ARG:HA	1.93	0.50
1:6:856:A:N7	9:s7:97:ARG:HB2	2.25	0.50
1:6:947:U:H2'	1:6:948:G:C8	2.45	0.50
1:6:1229:G:H1	81:c2:47:GLU:HG2	1.75	0.50
15:c3:91:LEU:HD12	15:c3:125:LEU:HD12	1.93	0.50
21:c9:28:LEU:O	21:c9:29:GLU:HB2	2.10	0.50
21:c9:112:GLY:O	21:c9:125:SER:OG	2.23	0.50
83:sR:89:LEU:HB2	83:sR:103:PHE:HB2	1.92	0.50
36:5:2993:G:H2'	36:5:3142:A:N6	2.27	0.50
37:7:11:A:N1	37:7:67:G:O2'	2.38	0.50
39:l2:30:ARG:NH2	39:l2:33:ASP:OD2	2.44	0.50
39:l2:37:ARG:HH21	39:l2:37:ARG:HB2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:232:ARG:HG2	40:l3:233:TRP:CD1	2.45	0.50
85:l8:134:TYR:CG	85:l8:190:VAL:HG11	2.46	0.50
46:l9:86:TYR:CD2	46:l9:151:VAL:HG22	2.46	0.50
51:m5:6:TYR:CD2	72:o6:40:VAL:HG13	2.46	0.50
51:m5:37:HIS:NE2	51:m5:63:ARG:HD2	2.25	0.50
54:m8:22:ASP:HA	54:m8:27:LYS:HE3	1.93	0.50
54:m8:44:PHE:CD1	54:m8:139:ILE:HD11	2.46	0.50
67:o1:78:LYS:HB2	67:o1:90:PHE:HB2	1.93	0.50
68:o2:19:ARG:HD3	68:o2:28:VAL:CG1	2.41	0.50
71:o5:78:LYS:HA	71:o5:81:ARG:HB2	1.94	0.50
76:q0:77:ILE:HD12	76:q0:78:ILE:H	1.76	0.50
1:2:95:G:O2'	1:2:460:A:O2'	2.23	0.50
1:2:473:A:H5'	1:2:769:A:H1'	1.93	0.50
3:S1:128:LYS:HE3	3:S1:132:ASP:HB3	1.93	0.50
18:C6:35:PRO:HG2	18:C6:38:LEU:HG	1.92	0.50
27:D5:50:ILE:O	27:D5:54:VAL:HG23	2.11	0.50
28:D6:85:ARG:O	28:D6:86:VAL:HB	2.11	0.50
36:1:103:G:OP1	49:M3:70:ARG:NH2	2.44	0.50
36:1:1048:A:H2'	47:M0:22:TYR:CZ	2.46	0.50
36:1:1579:C:N4	36:1:1580:A:H62	2.08	0.50
36:1:1621:A:H2'	36:1:1622:U:C6	2.46	0.50
36:1:3335:A:H2'	36:1:3336:A:C8	2.46	0.50
92:1:4350:OHX:N4	38:4:16:G:OP1	2.44	0.50
37:3:7:G:H5"	42:L5:22:ARG:HD3	1.93	0.50
38:4:69:U:OP2	92:O7:107:OHX:N3	2.44	0.50
41:L4:44:LYS:HB3	41:L4:47:ARG:HH11	1.76	0.50
49:M3:91:ARG:NH2	49:M3:97:VAL:O	2.44	0.50
51:M5:31:ARG:NH1	51:M5:124:ASP:OD1	2.44	0.50
54:M8:81:VAL:HG22	54:M8:101:VAL:HG13	1.93	0.50
63:N7:54:THR:OG1	63:N7:55:LYS:N	2.40	0.50
66:O0:16:LEU:HD22	66:O0:19:LYS:HE3	1.92	0.50
1:6:291:G:H2'	1:6:292:U:C6	2.47	0.50
1:6:778:G:O6	26:d4:10:ARG:HD2	2.11	0.50
1:6:1003:A:H4'	1:6:1004:U:O5'	2.11	0.50
15:c3:25:TRP:HA	15:c3:27:LYS:HE2	1.92	0.50
25:d3:51:GLY:O	25:d3:101:GLU:HA	2.11	0.50
26:d4:62:THR:HA	26:d4:69:SER:HA	1.93	0.50
36:5:240:U:O2'	36:5:241:G:H8	1.94	0.50
36:5:352:A:H61	36:5:365:A:H5"	1.75	0.50
36:5:1232:C:H2'	36:5:1233:G:H8	1.75	0.50
36:5:1614:C:H2'	36:5:1615:C:H6	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:63:G:N2	38:8:98:U:O2	2.42	0.50
57:n1:56:PHE:CZ	57:n1:78:LYS:HD3	2.45	0.50
62:n6:56:VAL:HG11	62:n6:104:LEU:HD13	1.92	0.50
1:2:178:U:C4	8:S6:191:ARG:HD3	2.46	0.50
1:2:276:C:O2'	1:2:277:U:H5"	2.12	0.50
1:2:652:G:H1	1:2:682:C:H42	1.59	0.50
1:2:812:A:OP1	1:2:858:G:N2	2.44	0.50
1:2:973:A:H2'	1:2:974:A:C8	2.47	0.50
1:2:1446:A:H2'	92:2:2255:OHX:N1	2.26	0.50
2:S0:69:ASN:HB3	2:S0:71:GLU:CD	2.37	0.50
3:S1:61:LEU:HD22	3:S1:61:LEU:H	1.76	0.50
4:S2:169:LEU:HD22	4:S2:198:THR:HG22	1.94	0.50
10:S8:89:GLU:O	10:S8:93:THR:OG1	2.20	0.50
12:C0:46:LEU:HG	12:C0:66:TYR:CD2	2.46	0.50
18:C6:9:THR:HG21	18:C6:88:GLY:HA2	1.93	0.50
22:D0:48:HIS:NE2	22:D0:50:LEU:HD11	2.27	0.50
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.46	0.50
34:SR:255:ALA:HB2	34:SR:292:LEU:HD22	1.93	0.50
36:1:1405:U:OP2	68:O2:59:SER:OG	2.30	0.50
36:1:2623:G:H2'	36:1:2624:G:C8	2.46	0.50
36:1:2948:C:O2'	40:L3:242:THR:HG22	2.12	0.50
36:1:3152:U:O2	92:1:4393:OHX:N4	2.45	0.50
36:1:3294:A:H2'	36:1:3295:A:O4'	2.12	0.50
40:L3:173:GLN:O	40:L3:175:LYS:N	2.44	0.50
41:L4:209:TYR:CZ	41:L4:229:ASN:HB2	2.47	0.50
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.47	0.50
46:L9:161:LEU:HD22	46:L9:179:ILE:HD12	1.94	0.50
67:O1:98:VAL:HG21	67:O1:104:LEU:HD11	1.92	0.50
71:O5:68:GLN:HA	71:O5:71:LYS:HB2	1.93	0.50
72:O6:43:LEU:O	72:O6:47:ILE:HG13	2.11	0.50
1:6:1058:U:H4'	1:6:1059:U:OP1	2.11	0.50
1:6:1102:G:OP2	25:d3:7:ARG:HD2	2.11	0.50
9:s7:28:GLU:HG2	9:s7:35:LYS:HA	1.94	0.50
9:s7:91:ILE:HD12	9:s7:92:PHE:H	1.76	0.50
16:c4:29:HIS:CD2	16:c4:41:ARG:HB2	2.47	0.50
36:5:93:C:OP2	36:5:2764:C:O2'	2.28	0.50
36:5:2299:A:OP2	92:5:4216:OHX:N1	2.43	0.50
36:5:3242:G:H5"	36:5:3245:A:H8	1.75	0.50
36:5:3245:A:H2	36:5:3246:G:N1	2.10	0.50
42:l5:68:THR:HG22	42:l5:70:THR:N	2.20	0.50
43:l6:40:LEU:HB3	43:l6:84:VAL:CG1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:m6:188:SER:O	52:m6:192:LYS:HG2	2.11	0.50
52:m6:189:ASP:O	52:m6:193:GLN:HG3	2.12	0.50
63:n7:34:LYS:O	63:n7:37:PRO:HG3	2.10	0.50
64:n8:94:ALA:HB2	64:n8:121:VAL:HG22	1.93	0.50
66:o0:13:LYS:O	66:o0:17:VAL:HG23	2.11	0.50
68:o2:4:LEU:HB3	68:o2:5:PRO:CD	2.41	0.50
1:2:144:U:H5	8:S6:137:ARG:NH1	2.09	0.50
1:2:485:A:H2'	1:2:486:G:O4'	2.11	0.50
1:2:1761:U:O2'	1:2:1762:A:OP2	2.23	0.50
8:S6:2:LYS:HB3	8:S6:108:VAL:HG22	1.94	0.50
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	1.92	0.50
12:C0:55:VAL:HA	12:C0:69:THR:HG23	1.93	0.50
18:C6:115:THR:HB	18:C6:118:ILE:O	2.12	0.50
19:C7:19:ARG:HG3	19:C7:20:TYR:CD1	2.47	0.50
25:D3:57:LEU:HD22	32:E0:4:VAL:HG12	1.94	0.50
36:1:351:A:N6	75:O9:37:TYR:O	2.43	0.50
36:1:353:G:N7	73:O7:55:ARG:HD3	2.27	0.50
36:1:568:G:H2'	36:1:569:A:O4'	2.11	0.50
36:1:1367:G:OP1	68:O2:45:ARG:NH2	2.45	0.50
39:L2:206:PRO:HG3	39:L2:213:GLY:HA3	1.92	0.50
42:L5:50:ARG:NH1	42:L5:72:ASP:OD2	2.45	0.50
42:L5:60:ILE:H	42:L5:80:SER:HB3	1.76	0.50
43:L6:170:LYS:HB2	43:L6:173:MET:HB2	1.93	0.50
46:L9:13:PRO:HD2	46:L9:16:VAL:HG11	1.93	0.50
65:N9:18:ARG:O	92:N9:102:OHX:N5	2.45	0.50
78:Q2:61:LYS:NZ	78:Q2:61:LYS:HB3	2.27	0.50
1:6:219:A:C6	1:6:843:U:H1'	2.47	0.50
1:6:1639:C:OP1	92:6:2252:OHX:N5	2.44	0.50
2:s0:105:GLY:O	2:s0:109:ASN:HB3	2.12	0.50
3:s1:70:LEU:HB3	3:s1:79:HIS:CB	2.41	0.50
4:s2:118:ALA:HB3	4:s2:124:ALA:HB2	1.92	0.50
11:s9:117:GLY:C	11:s9:119:ALA:H	2.20	0.50
83:sR:156:VAL:HA	83:sR:169:ILE:HG22	1.93	0.50
36:5:1157:G:H2'	36:5:1158:A:O4'	2.12	0.50
41:l4:271:LYS:HB2	41:l4:274:TYR:HB3	1.93	0.50
46:l9:92:TYR:CD2	46:l9:92:TYR:N	2.80	0.50
47:m0:4:ARG:HD3	47:m0:8:CYS:SG	2.51	0.50
48:m1:59:ILE:HD12	48:m1:65:ILE:HD11	1.94	0.50
55:m9:167:ARG:HB3	55:m9:167:ARG:HH11	1.76	0.50
57:n1:35:LYS:N	57:n1:38:ASP:OD2	2.40	0.50
61:n5:54:TYR:O	61:n5:56:ARG:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:n7:53:VAL:HA	63:n7:57:HIS:ND1	2.26	0.50
70:o4:38:LEU:H	70:o4:38:LEU:HD12	1.76	0.50
88:p0:25:LEU:HB3	88:p0:191:TYR:HD2	1.77	0.50
1:2:827:C:H2'	1:2:828:U:C6	2.46	0.50
1:2:1354:G:H5'	1:2:1355:C:OP2	2.12	0.50
1:2:1660:A:H2'	1:2:1661:U:C6	2.47	0.50
1:2:1695:G:N2	1:2:1706:C:H41	2.08	0.50
92:2:2074:OHX:N5	92:S2:303:OHX:N3	2.60	0.50
7:S5:103:ASN:HA	7:S5:106:LYS:HD2	1.94	0.50
20:C8:35:ILE:HB	20:C8:38:VAL:HG21	1.94	0.50
34:SR:272:ASP:OD1	34:SR:273:ASP:N	2.45	0.50
36:1:184:U:H3	36:1:232:G:H1	1.59	0.50
36:1:291:C:H5"	51:M5:68:ARG:NH1	2.27	0.50
36:1:383:G:N2	36:1:386:A:OP2	2.40	0.50
36:1:2924:U:O4	92:A:101:OHX:N1	2.44	0.50
36:1:3121:U:H1'	36:1:3122:A:H5"	1.93	0.50
44:L7:89:ILE:HG22	44:L7:220:PHE:HE1	1.76	0.50
54:M8:86:THR:HG22	54:M8:105:ARG:HB2	1.94	0.50
1:6:180:A:H2'	1:6:181:A:O4'	2.11	0.50
1:6:592:A:O2'	1:6:596:C:OP1	2.28	0.50
1:6:1181:U:O4	92:c5:202:OHX:N3	2.45	0.50
2:s0:74:VAL:HG12	2:s0:76:ILE:HG13	1.93	0.50
4:s2:43:ARG:HD2	4:s2:247:ALA:O	2.11	0.50
7:s5:61:TYR:HE2	7:s5:164:PRO:HG2	1.76	0.50
9:s7:61:PHE:HA	9:s7:93:LEU:O	2.12	0.50
81:c2:67:THR:C	81:c2:69:ALA:H	2.19	0.50
36:5:80:G:H2'	36:5:81:C:C6	2.46	0.50
36:5:627:U:H2'	36:5:628:A:H8	1.76	0.50
36:5:2436:U:H3	36:5:2511:A:H62	1.59	0.50
36:5:2700:G:H5"	57:n1:17:ARG:HG3	1.93	0.50
36:5:2763:U:H5'	54:m8:176:ARG:HG3	1.94	0.50
36:5:2915:U:H5	40:l3:7:GLU:HG2	1.76	0.50
47:m0:193:ASP:CG	47:m0:194:GLY:H	2.18	0.50
61:n5:100:LYS:HG2	61:n5:105:VAL:O	2.11	0.50
75:o9:28:ARG:NH1	75:o9:36:ARG:HH11	2.09	0.50
75:o9:44:TRP:CH2	75:o9:45:ARG:HG3	2.46	0.50
1:2:142:G:N2	1:2:173:A:H2	1.99	0.50
1:2:755:A:O2'	1:2:756:A:OP1	2.28	0.50
1:2:805:U:C2'	1:2:806:A:H5"	2.42	0.50
1:2:1012:U:O3'	39:L2:248:GLY:HA2	2.12	0.50
1:2:1784:C:H2'	1:2:1785:U:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:54:ARG:NH1	11:S9:55:ALA:HB2	2.26	0.50
18:C6:31:VAL:O	18:C6:33:GLY:N	2.45	0.50
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.77	0.50
26:D4:26:ASP:OD1	26:D4:68:LYS:HE3	2.12	0.50
28:D6:37:LYS:C	28:D6:38:ARG:HD2	2.36	0.50
36:1:180:C:H2'	36:1:181:U:H6	1.77	0.50
36:1:1222:G:O6	92:1:4352:OHX:N2	2.45	0.50
36:1:1549:U:H2'	36:1:1550:C:C6	2.47	0.50
36:1:1701:C:H2'	36:1:1702:U:O4'	2.12	0.50
36:1:1723:A:OP1	55:M9:128:LYS:NZ	2.43	0.50
36:1:1834:U:H3'	36:1:1835:A:H5'	1.94	0.50
41:L4:219:LEU:O	41:L4:222:VAL:HG13	2.11	0.50
46:L9:9:GLN:HG2	46:L9:52:LEU:HD21	1.94	0.50
53:M7:32:THR:HG21	53:M7:87:SER:HB3	1.93	0.50
55:M9:12:ALA:HB1	55:M9:17:VAL:O	2.12	0.50
67:O1:27:LYS:C	67:O1:30:PRO:HD2	2.37	0.50
69:O3:106:ASN:O	69:O3:106:ASN:ND2	2.34	0.50
1:6:93:A:H1'	6:s4:3:ARG:HB3	1.92	0.50
1:6:1429:G:H2'	1:6:1430:U:H6	1.76	0.50
1:6:1699:G:C2'	1:6:1700:C:H5'	2.42	0.50
2:s0:146:LEU:HB3	2:s0:162:CYS:SG	2.52	0.50
3:s1:32:ILE:HB	3:s1:43:VAL:HB	1.94	0.50
3:s1:183:GLN:OE1	3:s1:183:GLN:N	2.42	0.50
6:s4:151:ASP:OD1	8:s6:215:ARG:NH1	2.44	0.50
11:s9:29:LYS:O	11:s9:33:GLU:HG2	2.11	0.50
15:c3:94:LYS:HG2	15:c3:118:ILE:HD13	1.94	0.50
16:c4:122:PRO:C	16:c4:124:ASP:H	2.19	0.50
19:c7:30:THR:HG22	83:sR:127:ARG:NH2	2.27	0.50
19:c7:71:PHE:CZ	19:c7:74:GLN:HB2	2.47	0.50
30:d8:32:PHE:O	30:d8:34:GLU:N	2.44	0.50
36:5:173:G:O2'	36:5:174:C:H6	1.95	0.50
36:5:789:A:H2'	36:5:790:U:C6	2.46	0.50
36:5:1253:U:O2	36:5:1263:A:H5'	2.12	0.50
38:8:52:A:O4'	75:o9:21:ARG:HD2	2.12	0.50
39:l2:70:ARG:NH1	39:l2:72:ARG:HH21	2.09	0.50
41:l4:269:SER:C	41:l4:271:LYS:H	2.19	0.50
46:l9:20:ILE:HG12	46:l9:25:VAL:HG22	1.94	0.50
78:q2:52:GLY:O	78:q2:54:THR:HG23	2.12	0.50
1:2:268:C:H41	8:S6:186:ARG:HD3	1.77	0.50
1:2:991:G:O6	92:2:2138:OHX:N2	2.44	0.50
1:2:1522:U:OP2	92:2:2105:OHX:N3	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:81:PHE:HB3	2:S0:170:ILE:HD13	1.92	0.50
10:S8:66:SER:HA	10:S8:73:SER:HA	1.94	0.50
14:C2:67:THR:C	14:C2:69:ALA:H	2.19	0.50
34:SR:149:ASP:HB2	34:SR:175:ASP:HB3	1.94	0.50
38:4:79:A:H5"	71:O5:43:LYS:NZ	2.26	0.50
41:L4:3:ARG:HH11	41:L4:22:LEU:HD12	1.75	0.50
42:L5:261:THR:H	42:L5:264:GLN:HG3	1.76	0.50
43:L6:175:LYS:O	50:M4:117:ARG:NH2	2.45	0.50
48:M1:63:GLU:O	48:M1:64:LYS:HB2	2.12	0.50
56:N0:77:VAL:HG11	56:N0:106:LEU:HD12	1.93	0.50
70:O4:65:VAL:HG13	70:O4:69:HIS:HB2	1.92	0.50
1:6:938:G:N2	1:6:941:A:OP2	2.40	0.50
1:6:1139:A:OP2	92:6:2168:OHX:N1	2.44	0.50
1:6:1304:G:H5'	1:6:1322:A:OP2	2.12	0.50
1:6:1428:G:H5'	1:6:1428:G:H8	1.77	0.50
3:s1:206:PRO:O	3:s1:207:LEU:HB2	2.12	0.50
28:d6:30:ILE:HD11	28:d6:34:LYS:HD3	1.93	0.50
36:5:112:U:O2'	36:5:113:C:OP2	2.27	0.50
36:5:437:G:C6	92:5:4556:OHX:N3	2.80	0.50
36:5:629:U:H2'	36:5:630:A:C8	2.47	0.50
36:5:1474:A:O2'	67:o1:57:GLN:OE1	2.28	0.50
36:5:2794:G:N7	92:5:4246:OHX:N1	2.60	0.50
36:5:2988:C:OP1	52:m6:68:ARG:NH1	2.44	0.50
38:8:66:A:H2'	38:8:67:U:H6	1.76	0.50
38:8:84:C:H1'	62:n6:113:LYS:HB2	1.93	0.50
40:l3:10:ARG:NH1	40:l3:11:HIS:O	2.44	0.50
1:2:153:G:H2'	1:2:154:G:C8	2.46	0.50
9:S7:30:SER:HB2	9:S7:34:LEU:HB2	1.93	0.50
14:C2:27:ALA:HB1	14:C2:132:GLU:HB3	1.94	0.50
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	1.92	0.50
19:C7:71:PHE:HE1	19:C7:73:LEU:HD22	1.76	0.50
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.93	0.50
33:E1:144:CYS:C	33:E1:146:SER:N	2.70	0.50
36:1:34:A:H5'	51:M5:86:ASN:ND2	2.26	0.50
36:1:2767:U:H2'	36:1:2768:U:C6	2.47	0.50
47:M0:205:SER:O	47:M0:209:ASN:HB2	2.12	0.50
49:M3:124:ILE:HD11	49:M3:126:PHE:CE1	2.47	0.50
53:M7:26:PHE:HE1	53:M7:120:ASN:HA	1.76	0.50
56:N0:1:MET:HE1	56:N0:32:SER:H	1.77	0.50
1:6:76:A:N3	1:6:76:A:H2'	2.26	0.50
1:6:83:G:O6	92:6:2318:OHX:N4	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:338:C:H2'	1:6:339:C:C6	2.47	0.50
3:s1:70:LEU:HB3	3:s1:79:HIS:HB3	1.94	0.50
3:s1:70:LEU:HA	3:s1:73:LEU:HB2	1.94	0.50
7:s5:80:LYS:HB2	7:s5:83:ARG:HD3	1.93	0.50
20:c8:121:ALA:O	20:c8:125:ILE:HG13	2.12	0.50
24:d2:57:ARG:NH2	29:d7:26:GLN:OE1	2.45	0.50
36:5:158:G:N2	36:5:264:G:H1'	2.26	0.50
36:5:229:G:OP2	92:5:4389:OHX:N5	2.45	0.50
36:5:942:U:C4	64:n8:16:SER:HA	2.47	0.50
36:5:2093:A:H3'	36:5:2093:A:N3	2.26	0.50
39:l2:97:ASN:HB2	39:l2:100:ASN:ND2	2.27	0.50
44:l7:228:SER:HA	44:l7:232:ARG:HH21	1.76	0.50
46:l9:88:TYR:CZ	46:l9:184:LYS:HD3	2.46	0.50
49:m3:93:ILE:HG22	49:m3:94:GLY:H	1.77	0.50
62:n6:120:GLN:NE2	62:n6:126:LEU:HA	2.27	0.50
1:2:702:G:C8	92:2:2181:OHX:N2	2.80	0.49
1:2:839:U:C2'	1:2:840:U:H5'	2.41	0.49
1:2:920:U:H2'	1:2:921:U:O4'	2.11	0.49
1:2:1062:A:OP2	92:2:2249:OHX:N4	2.45	0.49
1:2:1783:C:H2'	1:2:1784:C:H6	1.77	0.49
3:S1:126:THR:HG22	3:S1:136:ARG:HE	1.77	0.49
12:C0:12:HIS:NE2	12:C0:49:LEU:HD21	2.26	0.49
15:C3:27:LYS:HD2	15:C3:28:LEU:H	1.76	0.49
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	1.94	0.49
36:1:129:U:O4	92:1:4487:OHX:N1	2.45	0.49
36:1:1230:G:H2'	36:1:1231:A:C8	2.47	0.49
36:1:1595:U:C2	36:1:1596:C:C5	3.00	0.49
36:1:1742:U:H2'	36:1:1743:G:C8	2.47	0.49
36:1:3276:G:O6	53:M7:171:ARG:NH1	2.40	0.49
42:L5:104:LEU:HD11	42:L5:108:ARG:HH21	1.76	0.49
47:M0:144:ASN:O	47:M0:145:LYS:C	2.55	0.49
49:M3:3:ILE:HG12	64:N8:34:MET:HE2	1.93	0.49
52:M6:80:PHE:CE2	52:M6:84:LEU:HD12	2.47	0.49
55:M9:25:ASP:OD1	55:M9:25:ASP:N	2.44	0.49
56:N0:124:LEU:HD23	57:N1:153:PRO:HG2	1.94	0.49
61:N5:45:LYS:HG2	71:O5:75:TYR:CD2	2.47	0.49
67:O1:55:LEU:HD23	67:O1:95:PRO:HB3	1.94	0.49
1:6:479:C:O2	1:6:510:G:N2	2.45	0.49
1:6:647:G:H22	1:6:687:G:N2	2.10	0.49
1:6:1232:U:O4	33:e1:97:LYS:HD3	2.11	0.49
1:6:1797:A:N1	28:d6:87:ARG:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:82:ARG:NH2	3:s1:188:LEU:O	2.45	0.49
4:s2:78:ASP:HB3	4:s2:104:VAL:HG12	1.93	0.49
7:s5:156:ARG:HA	7:s5:157:ARG:NH2	2.26	0.49
10:s8:76:THR:HG22	10:s8:108:PRO:HG2	1.94	0.49
19:c7:71:PHE:CE1	19:c7:74:GLN:HB2	2.47	0.49
36:5:80:G:H2'	36:5:81:C:H6	1.77	0.49
36:5:726:G:H5"	36:5:726:G:H8	1.77	0.49
36:5:2736:A:O2'	57:n1:68:THR:HG21	2.11	0.49
40:l3:152:LYS:HG2	40:l3:192:VAL:HG11	1.94	0.49
41:l4:329:PRO:C	41:l4:331:ALA:N	2.69	0.49
42:l5:183:TRP:CZ3	42:l5:185:PHE:HA	2.47	0.49
47:m0:47:PRO:HD2	47:m0:141:LYS:HA	1.93	0.49
55:m9:23:TRP:CH2	55:m9:25:ASP:HA	2.47	0.49
57:n1:138:SER:O	57:n1:139:ARG:HG3	2.12	0.49
58:n2:14:THR:HG23	58:n2:66:VAL:HG13	1.94	0.49
66:o0:13:LYS:HB3	66:o0:100:ILE:HG23	1.93	0.49
74:o8:12:LEU:O	74:o8:15:THR:OG1	2.28	0.49
1:2:499:U:O2'	1:2:500:C:H5"	2.12	0.49
1:2:918:U:O3'	16:C4:18:ARG:NH1	2.46	0.49
1:2:1165:G:C6	1:2:1166:A:C6	3.00	0.49
1:2:1511:U:H2'	1:2:1512:G:C8	2.47	0.49
1:2:1535:U:OP1	1:2:1535:U:H4'	2.12	0.49
1:2:1589:C:OP1	92:2:2234:OHX:N1	2.45	0.49
36:1:210:U:C2	36:1:230:U:H4'	2.46	0.49
36:1:691:A:N1	38:4:28:C:O2'	2.34	0.49
36:1:1481:A:O2'	36:1:1858:A:N3	2.32	0.49
36:1:2403:G:N7	36:1:2870:C:H4'	2.27	0.49
37:3:56:A:O2'	48:M1:148:VAL:HG22	2.12	0.49
40:L3:283:TYR:CB	40:L3:323:MET:HE2	2.42	0.49
42:L5:261:THR:N	42:L5:264:GLN:HG3	2.27	0.49
44:L7:80:GLN:HB2	57:N1:135:PRO:HB2	1.94	0.49
50:M4:40:ASP:OD1	50:M4:41:GLN:N	2.45	0.49
51:M5:172:ARG:CZ	51:M5:174:ILE:HD11	2.42	0.49
1:6:149:C:P	26:d4:124:ARG:HD2	2.52	0.49
1:6:460:A:H3'	1:6:461:G:H8	1.78	0.49
3:s1:31:ASP:OD2	3:s1:45:LYS:HE2	2.12	0.49
7:s5:119:ASP:O	7:s5:123:VAL:HG23	2.12	0.49
11:s9:49:LEU:HD12	11:s9:101:VAL:HG13	1.94	0.49
82:c5:138:PHE:C	92:c5:202:OHX:N2	2.71	0.49
19:c7:104:ASN:H	19:c7:106:THR:HG22	1.76	0.49
25:d3:111:GLY:O	25:d3:121:ARG:HD2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:516:A:O3'	44:l7:60:ARG:NH2	2.45	0.49
36:5:955:U:H2'	36:5:956:U:C6	2.46	0.49
36:5:1256:G:H2'	36:5:1257:C:C6	2.46	0.49
36:5:1256:G:O6	36:5:1261:G:N2	2.44	0.49
36:5:1380:G:OP1	41:l4:191:LYS:HB3	2.12	0.49
36:5:1727:G:OP1	79:q3:44:LYS:NZ	2.41	0.49
38:8:16:G:O2'	38:8:17:A:OP2	2.25	0.49
40:l3:166:ILE:O	40:l3:169:THR:HG22	2.11	0.49
41:l4:205:PRO:HB3	41:l4:247:PHE:CD2	2.48	0.49
55:m9:4:LEU:O	55:m9:7:GLN:HG2	2.12	0.49
57:n1:78:LYS:O	57:n1:85:LEU:N	2.43	0.49
62:n6:35:LEU:HD13	62:n6:39:LEU:HB3	1.95	0.49
88:p0:40:GLU:HA	88:p0:43:LYS:HE3	1.94	0.49
1:2:150:U:OP1	26:D4:123:LYS:NZ	2.45	0.49
6:S4:124:GLY:HA2	6:S4:142:HIS:HE1	1.77	0.49
8:S6:102:VAL:HG13	8:S6:106:LEU:HD12	1.93	0.49
16:C4:106:ALA:HB1	28:D6:56:ALA:HB3	1.95	0.49
22:D0:117:VAL:HG22	22:D0:118:VAL:H	1.77	0.49
26:D4:23:PHE:HE2	26:D4:75:VAL:HG12	1.77	0.49
28:D6:60:PRO:C	28:D6:62:TYR:H	2.20	0.49
34:SR:26:SER:OG	34:SR:75:ALA:O	2.31	0.49
36:1:353:G:O6	73:O7:52:LYS:HE2	2.12	0.49
36:1:1194:G:H2'	36:1:1195:A:C8	2.48	0.49
36:1:1352:A:H1'	36:1:1353:U:O5'	2.12	0.49
36:1:2299:A:OP1	92:1:4359:OHX:N1	2.45	0.49
36:1:2403:G:H21	36:1:2404:A:N6	2.10	0.49
36:1:2525:G:H2'	39:L2:34:TYR:CE1	2.48	0.49
36:1:2623:G:H2'	36:1:2624:G:H8	1.77	0.49
36:1:3000:A:H2'	36:1:3001:C:C6	2.47	0.49
37:3:76:A:O2'	56:N0:50:LYS:HE3	2.11	0.49
40:L3:370:PHE:CD2	40:L3:376:LYS:HG3	2.46	0.49
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	1.93	0.49
48:M1:85:LYS:HA	48:M1:89:TYR:CE2	2.46	0.49
51:M5:63:ARG:NH2	51:M5:131:GLU:OE2	2.44	0.49
55:M9:44:LEU:HD12	55:M9:49:THR:HB	1.94	0.49
58:N2:54:VAL:HG12	58:N2:67:SER:HA	1.94	0.49
64:N8:6:THR:HG23	64:N8:8:THR:H	1.77	0.49
1:6:936:G:N7	28:d6:15:ARG:NH1	2.59	0.49
3:s1:144:ARG:NH2	3:s1:207:LEU:O	2.45	0.49
6:s4:77:ARG:HD2	6:s4:82:TYR:CE1	2.46	0.49
13:c1:108:PRO:HG2	13:c1:134:THR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:123:HIS:CE1	15:c3:141:TYR:HD2	2.30	0.49
84:sM:52:PRO:C	84:sM:54:PRO:HD3	2.38	0.49
36:5:1240:A:H2'	36:5:1241:U:H5'	1.94	0.49
36:5:1639:C:H5'	70:o4:52:GLN:HG2	1.94	0.49
36:5:1715:A:C5	66:o0:84:LEU:HD13	2.47	0.49
36:5:1746:U:O2'	74:o8:4:GLU:OE1	2.30	0.49
36:5:2211:U:H5	36:5:2234:G:C6	2.30	0.49
36:5:2364:G:H22	36:5:2396:G:H1'	1.77	0.49
36:5:2440:G:H5"	36:5:2440:G:H8	1.77	0.49
41:l4:99:MET:HE3	41:l4:103:THR:N	2.23	0.49
47:m0:56:GLU:HG3	47:m0:162:GLN:H	1.76	0.49
56:n0:137:ARG:HG2	56:n0:139:TYR:CE1	2.46	0.49
64:n8:2:PRO:HG2	64:n8:5:PHE:CE2	2.47	0.49
73:o7:16:HIS:O	73:o7:25:ARG:HD3	2.12	0.49
90:a:74:C:H6	90:a:74:C:H5'	1.76	0.49
2:S0:73:VAL:O	2:S0:95:ALA:HA	2.12	0.49
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	1.95	0.49
6:S4:185:GLY:N	6:S4:189:LEU:HD13	2.28	0.49
11:S9:125:ALA:O	11:S9:129:ILE:HG13	2.12	0.49
26:D4:105:ARG:NH1	26:D4:109:LYS:HE2	2.28	0.49
28:D6:97:PRO:N	28:D6:98:PRO:HD2	2.28	0.49
33:E1:130:VAL:HG11	33:E1:143:LYS:HG2	1.93	0.49
36:1:65:A:H4'	36:1:66:A:O5'	2.13	0.49
36:1:764:U:O4	92:1:4502:OHX:N5	2.46	0.49
36:1:1134:G:N7	92:1:4188:OHX:N6	2.60	0.49
36:1:1222:G:N2	36:1:1285:G:O2'	2.42	0.49
36:1:1316:C:N4	52:M6:131:PRO:HD3	2.27	0.49
36:1:1733:G:C8	92:1:4500:OHX:N6	2.80	0.49
36:1:2749:G:O6	92:1:4354:OHX:N2	2.46	0.49
36:1:2807:U:O3'	36:1:2808:A:H3'	2.13	0.49
44:L7:158:LYS:HG2	44:L7:203:TRP:CH2	2.44	0.49
49:M3:69:VAL:HG12	49:M3:149:GLN:NE2	2.27	0.49
53:M7:41:LEU:O	53:M7:41:LEU:HD22	2.12	0.49
70:O4:16:ARG:HH11	70:O4:37:LYS:HD2	1.78	0.49
71:O5:119:LYS:HE2	71:O5:119:LYS:HA	1.95	0.49
1:6:333:A:C6	1:6:334:G:C6	3.00	0.49
1:6:452:A:OP2	92:6:2157:OHX:N4	2.45	0.49
1:6:542:A:H1'	1:6:543:C:OP1	2.12	0.49
1:6:1320:U:O2	1:6:1322:A:H5'	2.12	0.49
10:s8:62:THR:HA	10:s8:76:THR:O	2.13	0.49
11:s9:151:ASP:OD1	11:s9:151:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1267:U:H2'	36:5:1268:G:O4'	2.13	0.49
36:5:1944:U:H2'	36:5:1945:A:C8	2.47	0.49
36:5:2339:C:P	59:n3:48:ARG:HG2	2.53	0.49
36:5:3376:A:OP2	92:5:4192:OHX:N4	2.46	0.49
38:8:81:U:H1'	38:8:82:U:H5"	1.94	0.49
39:l2:64:ARG:HH22	85:l8:38:GLN:HA	1.76	0.49
41:l4:157:GLU:HG3	41:l4:251:THR:HG21	1.94	0.49
44:l7:130:ILE:HG23	44:l7:134:VAL:HG21	1.95	0.49
46:l9:18:VAL:HB	46:l9:27:VAL:HG22	1.94	0.49
48:m1:168:ASP:OD1	92:m1:203:OHX:N3	2.45	0.49
49:m3:54:LEU:N	49:m3:94:GLY:O	2.46	0.49
53:m7:30:ARG:HA	53:m7:119:VAL:HG21	1.94	0.49
55:m9:106:LEU:HB3	55:m9:120:TYR:CE1	2.48	0.49
1:2:1157:A:H2'	1:2:1160:A:N7	2.27	0.49
1:2:1699:G:N2	1:2:1701:A:H5"	2.26	0.49
2:S0:106:SER:N	2:S0:135:GLU:OE2	2.40	0.49
2:S0:198:MET:SD	19:C7:85:VAL:HG21	2.52	0.49
3:S1:172:LEU:O	3:S1:176:VAL:HG23	2.12	0.49
3:S1:176:VAL:HG12	3:S1:177:GLN:H	1.76	0.49
6:S4:126:VAL:HG22	6:S4:156:VAL:HA	1.94	0.49
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.93	0.49
9:S7:30:SER:HB3	9:S7:34:LEU:HD12	1.95	0.49
29:D7:73:LEU:H	29:D7:73:LEU:HD12	1.76	0.49
37:3:45:A:H2'	37:3:46:A:C8	2.48	0.49
38:4:99:C:OP1	61:N5:53:HIS:NE2	2.44	0.49
40:L3:53:MET:HE2	40:L3:77:THR:HG22	1.95	0.49
46:L9:162:GLN:HB2	46:L9:179:ILE:O	2.12	0.49
51:M5:143:ARG:NH2	71:O5:92:LEU:HD23	2.28	0.49
71:O5:85:THR:HG22	71:O5:87:ALA:N	2.25	0.49
1:6:21:U:H2'	1:6:22:A:C8	2.47	0.49
1:6:138:A:H2'	1:6:139:C:H5'	1.95	0.49
1:6:491:C:N4	1:6:497:G:H21	2.10	0.49
1:6:555:A:C8	1:6:555:A:H3'	2.48	0.49
2:s0:157:ASP:O	2:s0:158:VAL:C	2.56	0.49
5:s3:64:ARG:O	5:s3:66:ILE:N	2.44	0.49
8:s6:2:LYS:HE2	8:s6:17:GLU:OE2	2.13	0.49
15:c3:66:ILE:HG13	15:c3:67:THR:HG23	1.94	0.49
21:c9:113:ILE:HA	21:c9:128:GLY:HA3	1.94	0.49
25:d3:68:ILE:O	25:d3:70:LYS:NZ	2.45	0.49
26:d4:15:ASN:OD1	26:d4:17:LEU:HB2	2.13	0.49
26:d4:57:VAL:HB	26:d4:60:PHE:CE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:e0:55:ARG:HB3	32:e0:55:ARG:HH11	1.77	0.49
36:5:92:G:OP2	36:5:93:C:H5"	2.12	0.49
36:5:920:A:OP1	36:5:922:U:H5	1.96	0.49
36:5:1595:U:C2	36:5:1596:C:C5	3.01	0.49
36:5:1677:G:N7	58:n2:74:LYS:HE3	2.27	0.49
36:5:1807:G:H5'	63:n7:135:ARG:NH1	2.27	0.49
36:5:2157:G:N1	36:5:2178:A:OP2	2.35	0.49
36:5:2948:C:O2'	40:l3:242:THR:HG22	2.12	0.49
43:l6:31:ARG:HH11	69:o3:107:ILE:HG22	1.76	0.49
44:l7:110:ARG:HB2	54:m8:3:ILE:HG23	1.93	0.49
46:l9:13:PRO:HD2	46:l9:79:ILE:HG21	1.94	0.49
54:m8:109:GLY:O	54:m8:113:LYS:HB2	2.13	0.49
57:n1:65:TYR:HB3	57:n1:75:ILE:HG13	1.95	0.49
2:S0:41:ARG:HG2	19:C7:105:GLN:HE21	1.78	0.49
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.13	0.49
6:S4:156:VAL:O	6:S4:157:ASN:HB2	2.11	0.49
16:C4:19:ILE:HB	16:C4:83:ILE:HD12	1.93	0.49
16:C4:124:ASP:O	16:C4:125:SER:HB2	2.13	0.49
21:C9:37:VAL:HG11	21:C9:100:ILE:HD11	1.94	0.49
34:SR:42:LEU:HB2	34:SR:61:PHE:HB2	1.94	0.49
36:1:380:U:H2'	36:1:381:U:C6	2.47	0.49
36:1:564:G:H2'	36:1:565:U:C6	2.48	0.49
36:1:1237:G:H2'	36:1:1237:G:N3	2.26	0.49
36:1:1317:A:OP1	92:1:4298:OHX:N2	2.45	0.49
36:1:1567:U:H5	36:1:1568:U:C2	2.31	0.49
38:4:121:U:H2'	38:4:122:U:H6	1.78	0.49
41:L4:47:ARG:NH1	41:L4:109:TRP:O	2.45	0.49
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.12	0.49
54:M8:51:ALA:HA	54:M8:54:LEU:HG	1.93	0.49
56:N0:45:LEU:HD12	56:N0:51:VAL:HG21	1.95	0.49
62:N6:83:ASP:O	62:N6:84:LYS:HB2	2.12	0.49
1:6:531:C:H2'	1:6:532:U:H5'	1.95	0.49
1:6:558:U:O2	1:6:558:U:H2'	2.13	0.49
1:6:683:C:H3'	1:6:684:A:H5"	1.93	0.49
1:6:1237:G:H2'	1:6:1238:A:C8	2.48	0.49
1:6:1364:G:O3'	18:c6:26:LYS:NZ	2.37	0.49
2:s0:169:SER:O	2:s0:173:ILE:HG12	2.13	0.49
3:s1:38:PHE:HD1	3:s1:74:GLN:HE22	1.61	0.49
6:s4:18:TRP:HH2	6:s4:31:PRO:HD3	1.77	0.49
7:s5:140:THR:HA	7:s5:214:LYS:HD2	1.94	0.49
8:s6:186:ARG:O	8:s6:190:GLN:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:14:THR:HG22	9:s7:17:GLU:CD	2.37	0.49
11:s9:90:LYS:HG2	11:s9:95:TYR:CD1	2.47	0.49
20:c8:50:ALA:HB2	20:c8:72:ILE:HD12	1.95	0.49
83:sR:274:LEU:HD22	83:sR:313:TRP:CD1	2.47	0.49
36:5:230:U:H2'	36:5:231:G:O4'	2.13	0.49
36:5:686:G:H2'	36:5:687:U:O4'	2.12	0.49
36:5:701:G:H2'	36:5:702:C:C6	2.47	0.49
36:5:1329:U:HO2'	36:5:1330:A:P	2.34	0.49
36:5:2256:A:H2'	36:5:2256:A:OP2	2.11	0.49
36:5:2317:A:OP2	92:5:4457:OHX:N6	2.46	0.49
36:5:2424:A:N1	39:l2:230:VAL:HG21	2.27	0.49
36:5:2586:G:C8	85:l8:241:LYS:HD3	2.47	0.49
36:5:2586:G:N7	85:l8:241:LYS:HB2	2.27	0.49
36:5:2592:G:H4'	36:5:2594:C:C2	2.48	0.49
36:5:2732:G:H2'	36:5:2733:A:O4'	2.13	0.49
36:5:2800:G:O6	64:n8:42:ARG:NH2	2.45	0.49
36:5:2827:U:O4	92:5:4158:OHX:N5	2.46	0.49
42:l5:196:ARG:NH2	42:l5:237:GLU:OE1	2.40	0.49
64:n8:2:PRO:HG2	64:n8:5:PHE:CD2	2.48	0.49
1:2:740:A:H2'	1:2:741:C:H5"	1.94	0.49
1:2:1417:A:OP1	92:2:2118:OHX:N5	2.46	0.49
1:2:1536:G:N1	1:2:1538:U:O2	2.46	0.49
5:S3:162:GLN:HE22	5:S3:165:ASN:HB2	1.77	0.49
5:S3:211:PRO:HG3	19:C7:20:TYR:CE1	2.48	0.49
12:C0:31:LYS:HA	12:C0:37:THR:O	2.11	0.49
14:C2:63:VAL:HG13	14:C2:64:SER:N	2.28	0.49
19:C7:41:ILE:HD13	19:C7:47:ARG:HA	1.94	0.49
27:D5:43:ASP:O	27:D5:45:GLU:N	2.46	0.49
36:1:20:A:C6	36:1:21:G:C6	3.01	0.49
36:1:209:A:H4'	36:1:211:A:C8	2.47	0.49
36:1:619:A:H4'	36:1:620:U:O4'	2.13	0.49
36:1:977:C:P	54:M8:141:ARG:HH22	2.35	0.49
36:1:1753:G:N7	92:1:4281:OHX:N6	2.61	0.49
36:1:2223:A:OP2	36:1:2223:A:H8	1.95	0.49
36:1:2294:U:O2	36:1:2296:A:H8	1.96	0.49
36:1:3013:U:H2'	36:1:3014:U:C6	2.48	0.49
68:O2:91:THR:HG22	68:O2:92:TYR:CD2	2.48	0.49
71:O5:4:VAL:HG11	71:O5:9:LEU:HD11	1.95	0.49
1:6:52:U:H2'	1:6:53:G:H8	1.78	0.49
1:6:1288:G:N7	1:6:1314:U:O2'	2.39	0.49
92:6:2162:OHX:N5	92:6:2339:OHX:N1	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:222:VAL:HG11	83:sR:229:LYS:HA	1.94	0.49
82:c5:15:HIS:H	82:c5:22:LEU:HD22	1.76	0.49
20:c8:145:ARG:HG3	84:sM:68:ARG:NH2	2.26	0.49
23:d1:71:ARG:HG3	23:d1:83:TRP:CZ2	2.47	0.49
25:d3:23:ARG:HD2	25:d3:29:TYR:CD2	2.48	0.49
83:sR:249:ARG:NH2	83:sR:315:VAL:HG11	2.28	0.49
36:5:1348:U:O4'	36:5:1355:A:N6	2.46	0.49
36:5:1353:U:H2'	43:l6:9:TRP:CE3	2.48	0.49
36:5:2840:C:OP1	92:5:4395:OHX:N3	2.46	0.49
36:5:2902:A:H2'	36:5:2903:A:O4'	2.13	0.49
41:l4:148:ILE:HA	41:l4:149:PRO:C	2.37	0.49
46:l9:26:LYS:HG3	46:l9:35:THR:HG22	1.94	0.49
47:m0:93:PRO:HB2	47:m0:125:LEU:HB3	1.94	0.49
48:m1:107:ASP:O	48:m1:108:GLU:HG2	2.12	0.49
70:o4:81:CYS:O	70:o4:83:ASN:N	2.45	0.49
88:p0:37:GLN:O	88:p0:41:VAL:HG23	2.13	0.49
1:2:502:U:H2'	1:2:503:G:O4'	2.13	0.49
1:2:1473:U:O2'	7:S5:103:ASN:ND2	2.43	0.49
2:S0:76:ILE:HD13	2:S0:98:ILE:HD12	1.93	0.49
7:S5:146:THR:HG23	7:S5:221:ALA:HA	1.93	0.49
21:C9:57:ARG:HB2	21:C9:57:ARG:HH11	1.77	0.49
36:1:158:G:H2'	36:1:159:A:H8	1.78	0.49
36:1:1230:G:H1	36:1:1279:C:N4	2.11	0.49
36:1:1420:C:OP1	38:4:20:U:H5"	2.12	0.49
36:1:2618:G:O4'	65:N9:3:LYS:HE2	2.13	0.49
36:1:2970:C:H4'	36:1:2971:A:N1	2.27	0.49
36:1:2993:G:H2'	36:1:3142:A:N6	2.28	0.49
36:1:3048:A:O3'	92:1:4447:OHX:N4	2.46	0.49
36:1:3057:U:H5'	36:1:3086:A:H61	1.78	0.49
36:1:3228:C:H4'	36:1:3229:G:O5'	2.11	0.49
37:3:6:C:OP1	42:L5:54:ARG:NE	2.37	0.49
40:L3:113:GLU:HB3	40:L3:176:ALA:HB2	1.94	0.49
41:L4:308:LYS:HD2	41:L4:310:THR:HG22	1.94	0.49
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.12	0.49
55:M9:68:GLN:OE1	55:M9:71:ARG:HD2	2.13	0.49
59:N3:35:TYR:CE2	59:N3:37:ILE:HG22	2.48	0.49
59:N3:93:LEU:HA	60:N4:20:LEU:O	2.12	0.49
78:Q2:36:PHE:HA	78:Q2:41:ARG:HG3	1.94	0.49
1:6:191:C:O2'	1:6:192:U:O5'	2.28	0.49
1:6:521:A:H2'	1:6:522:U:O4'	2.13	0.49
1:6:1229:G:C6	81:c2:47:GLU:HG2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1317:C:H2'	1:6:1318:G:O4'	2.11	0.49
1:6:1521:G:O2'	1:6:1523:G:OP2	2.30	0.49
5:s3:25:PHE:CD2	5:s3:37:VAL:HG11	2.47	0.49
6:s4:52:LEU:HB3	6:s4:54:TYR:CD2	2.48	0.49
7:s5:99:MET:HA	7:s5:104:ASN:ND2	2.27	0.49
11:s9:142:ASN:C	11:s9:142:ASN:HD22	2.21	0.49
36:5:1003:A:H1'	42:l5:15:ARG:NH2	2.27	0.49
36:5:1654:A:N3	70:o4:59:PRO:HB3	2.28	0.49
36:5:2209:U:H4'	36:5:2210:G:OP1	2.12	0.49
36:5:2859:U:H4'	36:5:2860:U:O5'	2.13	0.49
36:5:3274:A:H3'	36:5:3275:U:C5'	2.35	0.49
38:8:86:U:H2'	71:o5:7:TYR:CE2	2.47	0.49
46:l9:129:ARG:O	46:l9:132:VAL:HG13	2.12	0.49
49:m3:2:ALA:HA	64:n8:41:HIS:CE1	2.48	0.49
1:2:329:G:H5"	10:S8:98:LYS:HB3	1.95	0.49
1:2:901:G:N2	16:C4:54:GLU:OE1	2.45	0.49
1:2:1662:G:H2'	1:2:1663:G:H8	1.78	0.49
3:S1:176:VAL:HA	3:S1:184:LEU:HD23	1.93	0.49
3:S1:222:LYS:HD3	3:S1:223:PHE:H	1.77	0.49
5:S3:92:GLN:CD	5:S3:92:GLN:H	2.19	0.49
8:S6:126:ASP:OD2	8:S6:127:THR:HG22	2.12	0.49
13:C1:109:VAL:HG21	13:C1:125:VAL:HG22	1.94	0.49
36:1:900:G:H1'	36:1:1589:A:N6	2.28	0.49
36:1:1334:U:H2'	36:1:1335:C:C6	2.47	0.49
36:1:2736:A:O2'	57:N1:68:THR:HG21	2.12	0.49
36:1:2836:C:H5	36:1:2852:C:N4	2.00	0.49
36:1:3217:C:C4	53:M7:182:ILE:HG23	2.48	0.49
36:1:3340:G:O6	92:1:4286:OHX:N4	2.46	0.49
37:3:58:C:H2'	37:3:59:U:H6	1.78	0.49
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	1.95	0.49
40:L3:306:THR:HG22	40:L3:310:GLY:HA2	1.94	0.49
44:L7:140:SER:OG	44:L7:143:THR:HG23	2.13	0.49
56:N0:8:GLN:HG2	56:N0:62:ASN:HB2	1.95	0.49
57:N1:102:ARG:O	57:N1:106:LEU:HD22	2.13	0.49
74:O8:32:ASN:O	74:O8:34:ALA:N	2.46	0.49
76:Q0:110:CYS:SG	76:Q0:112:LYS:HB2	2.52	0.49
1:6:595:G:H2'	1:6:596:C:C6	2.48	0.49
1:6:1030:A:OP1	28:d6:3:LYS:NZ	2.35	0.49
1:6:1362:U:H1'	1:6:1363:U:C4	2.48	0.49
1:6:1696:G:N2	1:6:1704:U:H3	2.10	0.49
92:6:2162:OHX:N5	92:6:2339:OHX:N2	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:81:ARG:HH21	30:d8:47:PRO:HB3	1.77	0.49
8:s6:189:HIS:HE1	8:s6:193:LEU:HD12	1.77	0.49
18:c6:57:LEU:HD12	18:c6:57:LEU:H	1.78	0.49
20:c8:3:LEU:HD23	20:c8:5:VAL:HG23	1.95	0.49
24:d2:20:THR:OG1	24:d2:22:LYS:HD3	2.12	0.49
24:d2:30:SER:HB3	24:d2:59:GLY:HA3	1.95	0.49
30:d8:32:PHE:HB2	30:d8:38:ARG:HB2	1.95	0.49
83:sR:123:ILE:HG22	83:sR:133:VAL:HG22	1.94	0.49
83:sR:297:ASP:OD2	83:sR:297:ASP:N	2.42	0.49
36:5:322:U:H5"	36:5:323:A:OP1	2.13	0.49
36:5:341:G:N7	41:l4:195:ARG:NH2	2.53	0.49
36:5:565:U:H2'	36:5:566:G:O4'	2.13	0.49
36:5:712:G:H2'	36:5:713:U:C6	2.48	0.49
36:5:1080:A:OP1	42:l5:140:ARG:HD3	2.13	0.49
36:5:1258:U:O2	36:5:1260:A:H8	1.96	0.49
36:5:1471:U:OP1	55:m9:5:ARG:NH2	2.31	0.49
36:5:3317:U:H4'	36:5:3318:G:O5'	2.13	0.49
40:l3:37:ARG:HA	40:l3:186:GLY:HA2	1.95	0.49
41:l4:62:ALA:HB3	41:l4:90:PHE:CE2	2.48	0.49
85:l8:81:THR:OG1	85:l8:181:LYS:HB2	2.12	0.49
1:2:263:C:H4'	1:2:292:U:H5'	1.95	0.49
1:2:331:A:H5'	10:S8:33:PRO:HA	1.94	0.49
1:2:795:U:H5	1:2:796:A:C4	2.31	0.49
1:2:1417:A:O3'	18:C6:128:LYS:HE2	2.13	0.49
1:2:1547:A:H5'	20:C8:112:ASP:OD2	2.12	0.49
1:2:1617:U:H1'	30:D8:22:ARG:O	2.13	0.49
4:S2:53:ILE:HG12	4:S2:72:LEU:HB3	1.95	0.49
7:S5:37:GLN:CD	18:C6:53:LEU:HD22	2.37	0.49
7:S5:152:GLY:O	7:S5:154:ALA:N	2.46	0.49
14:C2:29:LYS:HE2	14:C2:100:TRP:NE1	2.28	0.49
20:C8:88:ARG:NH1	20:C8:112:ASP:OD1	2.45	0.49
21:C9:98:GLY:O	21:C9:102:ARG:HB2	2.13	0.49
27:D5:85:LYS:HG3	27:D5:86:GLU:N	2.27	0.49
30:D8:50:GLU:O	30:D8:51:ASN:HB2	2.13	0.49
33:E1:144:CYS:HB3	33:E1:147:VAL:CB	2.40	0.49
33:E1:144:CYS:C	33:E1:146:SER:H	2.21	0.49
34:SR:112:SER:CB	34:SR:153:GLN:HA	2.43	0.49
34:SR:166:SER:HA	34:SR:184:ASN:HD21	1.76	0.49
34:SR:179:LYS:HE3	34:SR:188:ILE:HD13	1.95	0.49
36:1:1094:U:O2	36:1:1096:U:O2'	2.22	0.49
36:1:1481:A:O2'	36:1:1858:A:C2	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1764:U:OP1	55:M9:43:LYS:HD2	2.13	0.49
36:1:1942:U:HO2'	36:1:3345:G:HO2'	1.57	0.49
36:1:2405:C:O2	36:1:2819:A:N1	2.46	0.49
42:L5:22:ARG:HG2	42:L5:28:THR:OG1	2.12	0.49
44:L7:136:TYR:CZ	44:L7:231:ASN:HB2	2.48	0.49
63:N7:10:VAL:HG23	63:N7:86:THR:HA	1.94	0.49
67:O1:82:GLU:O	67:O1:84:ASP:N	2.46	0.49
78:Q2:28:TYR:HB3	78:Q2:69:VAL:HB	1.95	0.49
1:6:246:G:H21	13:c1:39:GLY:HA3	1.77	0.49
1:6:247:A:O2'	13:c1:37:ASN:O	2.23	0.49
1:6:512:A:O2'	11:s9:133:HIS:CE1	2.66	0.49
1:6:1045:C:C2	1:6:1074:G:C2	3.01	0.49
1:6:1092:A:O2'	1:6:1093:A:H3'	2.12	0.49
6:s4:136:VAL:HG11	6:s4:148:ARG:NH2	2.28	0.49
18:c6:114:ARG:O	18:c6:115:THR:HB	2.12	0.49
30:d8:11:LYS:O	30:d8:30:VAL:HA	2.12	0.49
36:5:260:C:H2'	36:5:261:U:C6	2.48	0.49
36:5:1758:G:P	58:n2:104:ARG:HH22	2.35	0.49
36:5:2218:G:H2'	36:5:2219:A:H8	1.78	0.49
36:5:3228:C:H4'	36:5:3229:G:O5'	2.13	0.49
46:l9:171:ASP:OD1	46:l9:173:ARG:HD3	2.13	0.49
61:n5:44:PRO:O	61:n5:45:LYS:HB2	2.13	0.49
73:o7:65:ARG:HG3	73:o7:65:ARG:NH1	2.27	0.49
74:o8:16:ARG:NH1	74:o8:70:PRO:HG3	2.28	0.49
1:2:153:G:H2'	1:2:154:G:H8	1.77	0.48
1:2:882:U:H2'	1:2:883:C:C6	2.48	0.48
1:2:901:G:H22	16:C4:54:GLU:CD	2.21	0.48
1:2:947:U:H2'	1:2:948:G:H8	1.77	0.48
1:2:1486:G:C8	1:2:1487:A:C8	3.01	0.48
2:S0:49:ASN:HB3	2:S0:52:LYS:CG	2.43	0.48
3:S1:48:VAL:HG11	3:S1:57:ALA:HB1	1.94	0.48
4:S2:166:THR:HG23	4:S2:201:ASN:HB3	1.93	0.48
4:S2:174:ARG:O	11:S9:97:LEU:HD22	2.12	0.48
5:S3:20:GLU:OE2	5:S3:76:ARG:NH2	2.43	0.48
11:S9:129:ILE:HG12	11:S9:134:ILE:HD12	1.95	0.48
13:C1:75:VAL:HG12	13:C1:119:VAL:HA	1.95	0.48
30:D8:36:THR:OG1	30:D8:37:SER:N	2.25	0.48
36:1:816:A:H5"	36:1:920:A:H62	1.78	0.48
36:1:1103:A:H2'	36:1:1103:A:N3	2.28	0.48
36:1:1635:G:N2	36:1:1638:A:OP2	2.33	0.48
36:1:2178:A:H5"	39:L2:132:ASN:OD1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2586:G:C5	45:L8:241:LYS:HB2	2.48	0.48
40:L3:209:PHE:HB3	40:L3:282:ILE:HD12	1.95	0.48
41:L4:72:ALA:O	41:L4:76:ARG:NH1	2.45	0.48
41:L4:158:SER:HA	41:L4:213:ASN:O	2.13	0.48
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.48	0.48
51:M5:66:VAL:HG21	51:M5:98:LEU:HB3	1.95	0.48
52:M6:148:LYS:HB2	52:M6:149:TYR:CE2	2.48	0.48
54:M8:100:THR:HG23	54:M8:120:GLU:HB3	1.95	0.48
64:N8:90:TYR:CG	64:N8:100:PRO:HG3	2.48	0.48
74:O8:9:LYS:NZ	74:O8:13:GLU:OE2	2.43	0.48
78:Q2:99:GLN:OE1	78:Q2:102:GLN:NE2	2.45	0.48
79:Q3:75:ALA:O	79:Q3:79:VAL:HG23	2.13	0.48
1:6:717:C:O2'	1:6:718:U:OP1	2.25	0.48
1:6:1603:U:H2'	1:6:1604:U:C6	2.48	0.48
4:s2:54:GLU:O	4:s2:58:LEU:HB2	2.13	0.48
4:s2:161:LYS:HG2	4:s2:162:CYS:H	1.77	0.48
6:s4:35:PRO:HB3	6:s4:143:ASP:O	2.13	0.48
8:s6:174:LYS:O	8:s6:175:ILE:C	2.56	0.48
9:s7:104:ARG:O	9:s7:107:ARG:NH2	2.45	0.48
11:s9:39:LYS:HB3	11:s9:43:TYR:CE2	2.48	0.48
11:s9:163:PRO:C	11:s9:165:GLY:H	2.21	0.48
83:sR:128:ASP:OD1	83:sR:130:THR:OG1	2.31	0.48
36:5:47:C:OP2	36:5:48:A:O2'	2.28	0.48
36:5:1602:A:C6	36:5:1603:A:C6	3.01	0.48
36:5:2167:A:H2'	36:5:2168:A:C8	2.48	0.48
36:5:2585:G:H2'	36:5:2585:G:N3	2.29	0.48
37:7:68:C:P	42:l5:14:SER:HG	2.36	0.48
39:l2:250:GLN:HG2	39:l2:251:LYS:H	1.78	0.48
41:l4:311:HIS:CE1	41:l4:314:LYS:HA	2.48	0.48
85:l8:213:LYS:O	85:l8:217:THR:HG22	2.13	0.48
52:m6:124:LEU:O	52:m6:128:ARG:HB2	2.13	0.48
56:n0:9:VAL:HG22	56:n0:61:ILE:HD13	1.93	0.48
66:o0:16:LEU:HB2	66:o0:98:SER:HB2	1.95	0.48
71:o5:101:THR:HG22	71:o5:104:GLN:H	1.77	0.48
13:C1:40:LEU:HB2	13:C1:42:PHE:CE2	2.48	0.48
14:C2:129:GLU:O	14:C2:133:LEU:HD13	2.13	0.48
17:C5:81:ARG:NH1	17:C5:97:TYR:O	2.41	0.48
36:1:994:G:H3'	57:N1:13:TYR:CD2	2.48	0.48
36:1:1146:C:H4'	36:1:1331:U:C4	2.48	0.48
36:1:2862:U:H2'	36:1:2863:G:O4'	2.13	0.48
36:1:3155:U:H3'	36:1:3156:U:H4'	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:127:LEU:HD22	56:N0:156:VAL:HG23	1.95	0.48
57:N1:51:GLY:HA3	57:N1:92:ARG:HG3	1.94	0.48
1:6:1243:G:H5"	1:6:1243:G:N3	2.27	0.48
2:s0:24:LEU:HD11	2:s0:41:ARG:HH22	1.79	0.48
6:s4:159:THR:OG1	6:s4:160:VAL:N	2.46	0.48
80:c0:32:HIS:CG	80:c0:33:GLU:H	2.29	0.48
26:d4:37:LYS:HA	26:d4:40:LEU:HD12	1.95	0.48
36:5:1080:A:P	42:l5:140:ARG:NH2	2.86	0.48
36:5:3377:G:O6	92:5:4344:OHX:N1	2.46	0.48
40:l3:107:ALA:HA	40:l3:199:PHE:CD2	2.48	0.48
40:l3:147:GLU:OE1	40:l3:150:ARG:NH2	2.46	0.48
42:l5:51:LEU:N	42:l5:145:PHE:O	2.32	0.48
46:l9:23:ARG:NH2	46:l9:41:ILE:O	2.43	0.48
47:m0:142:ASP:CG	47:m0:178:ARG:HH22	2.21	0.48
48:m1:15:GLU:HG2	48:m1:16:LYS:HG2	1.95	0.48
70:o4:74:ARG:HG2	70:o4:75:ALA:N	2.28	0.48
1:2:79:C:H4'	8:S6:173:PRO:O	2.13	0.48
1:2:239:C:H2'	1:2:240:U:H6	1.79	0.48
1:2:449:C:H2'	1:2:450:U:H6	1.78	0.48
1:2:749:U:H2'	1:2:750:U:C6	2.49	0.48
1:2:1550:A:OP1	17:C5:42:ARG:NH2	2.42	0.48
92:2:2143:OHX:N6	92:2:2158:OHX:N5	2.62	0.48
3:S1:144:ARG:HG2	3:S1:206:PRO:HB3	1.95	0.48
14:C2:52:LEU:C	14:C2:54:ARG:H	2.21	0.48
14:C2:88:LEU:H	14:C2:140:PHE:HE1	1.62	0.48
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.50	0.48
20:C8:81:ILE:HG23	20:C8:82:PRO:HD2	1.95	0.48
20:C8:102:ALA:O	20:C8:105:VAL:HG12	2.13	0.48
34:SR:52:GLN:H	34:SR:52:GLN:CD	2.21	0.48
34:SR:134:TRP:CE3	34:SR:140:CYS:HB2	2.48	0.48
36:1:381:U:O4	92:1:4296:OHX:N4	2.46	0.48
36:1:1734:G:H2'	36:1:1735:G:O4'	2.13	0.48
36:1:2419:A:H2'	36:1:2420:C:C6	2.48	0.48
36:1:2991:A:N3	53:M7:69:ARG:NH2	2.61	0.48
37:3:19:C:H42	37:3:60:G:H1	1.61	0.48
38:4:76:C:H2'	38:4:77:A:O4'	2.13	0.48
44:L7:151:ARG:HD2	44:L7:244:ASN:ND2	2.28	0.48
52:M6:79:ILE:HG21	52:M6:138:LEU:HD11	1.95	0.48
56:N0:23:LYS:O	56:N0:24:LEU:HB2	2.13	0.48
1:6:151:G:N2	1:6:163:G:N2	2.61	0.48
1:6:577:G:H3'	1:6:577:G:H8	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:139:VAL:HG12	4:s2:62:PRO:HG3	1.95	0.48
80:c0:58:GLN:O	80:c0:65:TYR:N	2.47	0.48
18:c6:128:LYS:HE2	18:c6:134:ALA:O	2.14	0.48
20:c8:87:ASN:OD1	20:c8:99:HIS:HA	2.13	0.48
23:d1:70:ASN:OD1	23:d1:70:ASN:N	2.46	0.48
26:d4:41:ARG:NH2	26:d4:52:LYS:HB3	2.28	0.48
36:5:385:A:H2'	36:5:386:A:C8	2.48	0.48
36:5:1190:A:C8	36:5:1193:A:H1'	2.49	0.48
36:5:1277:C:H2'	36:5:1278:A:C8	2.48	0.48
36:5:1677:G:OP1	58:n2:97:SER:OG	2.26	0.48
36:5:1942:U:OP2	55:m9:74:ARG:NH1	2.42	0.48
36:5:2335:G:N2	36:5:2339:C:O2	2.42	0.48
36:5:2556:C:OP1	70:o4:88:ARG:NH1	2.46	0.48
36:5:3147:G:OP1	92:5:4504:OHX:N3	2.47	0.48
47:m0:215:GLU:CD	47:m0:215:GLU:H	2.19	0.48
53:m7:126:ARG:HD3	53:m7:140:GLU:OE2	2.13	0.48
59:n3:86:ARG:HD2	59:n3:92:PHE:CE2	2.49	0.48
67:o1:46:THR:HG23	67:o1:47:ASP:H	1.77	0.48
1:2:517:U:H3	1:2:535:A:H61	1.59	0.48
1:2:1533:C:H5	27:D5:77:ARG:HH21	1.62	0.48
4:S2:227:PRO:HA	4:S2:230:TRP:CG	2.48	0.48
5:S3:27:ARG:HD2	12:C0:60:SER:HB2	1.93	0.48
5:S3:106:LYS:O	5:S3:110:LEU:HB2	2.13	0.48
5:S3:178:ARG:H	5:S3:178:ARG:NE	2.10	0.48
17:C5:16:SER:HA	17:C5:20:VAL:O	2.13	0.48
25:D3:134:ALA:HB1	25:D3:140:LYS:HB2	1.95	0.48
36:1:352:A:N6	36:1:365:A:H5"	2.28	0.48
36:1:1002:A:H2'	36:1:1003:A:H8	1.78	0.48
36:1:1632:A:C8	36:1:1644:C:H2'	2.47	0.48
36:1:1675:G:H2'	36:1:1676:A:C8	2.49	0.48
36:1:1823:A:H2'	36:1:1824:U:C6	2.49	0.48
36:1:2724:U:OP1	57:N1:57:TYR:OH	2.29	0.48
36:1:3192:U:H2'	36:1:3193:C:C6	2.48	0.48
40:L3:284:ARG:NH2	40:L3:295:ALA:O	2.47	0.48
42:L5:215:ASP:OD1	42:L5:218:ARG:HG3	2.13	0.48
51:M5:155:VAL:HG23	51:M5:156:HIS:CE1	2.49	0.48
71:O5:28:LEU:HD23	71:O5:47:VAL:HG13	1.95	0.48
72:O6:70:ARG:HH11	72:O6:84:LYS:HD3	1.77	0.48
79:Q3:84:ARG:O	79:Q3:88:GLU:HG2	2.14	0.48
1:6:37:U:O2'	1:6:770:A:N1	2.33	0.48
1:6:607:G:H5'	1:6:613:G:N2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1011:G:OP2	92:6:2216:OHX:N4	2.46	0.48
1:6:1556:A:OP1	82:c5:115:TYR:OH	2.22	0.48
1:6:1773:C:OP2	77:q1:2:ARG:NH1	2.40	0.48
2:s0:22:THR:HG21	2:s0:173:ILE:HD11	1.94	0.48
2:s0:119:ARG:HE	4:s2:240:LEU:HD23	1.78	0.48
2:s0:190:ASP:C	2:s0:192:THR:H	2.21	0.48
6:s4:201:HIS:N	6:s4:206:ASP:OD1	2.36	0.48
20:c8:7:GLU:HB3	20:c8:10:SER:OG	2.13	0.48
36:5:1181:U:O4	52:m6:18:ARG:HA	2.13	0.48
36:5:2667:A:N6	36:5:2687:G:H1'	2.27	0.48
36:5:2943:G:H1'	40:l3:254:ALA:HB1	1.95	0.48
36:5:3133:C:H2'	36:5:3134:A:O4'	2.13	0.48
36:5:3306:U:O2'	36:5:3308:C:OP2	2.23	0.48
37:7:28:C:OP1	48:m1:137:ARG:NH1	2.35	0.48
40:l3:150:ARG:HG2	40:l3:150:ARG:HH11	1.78	0.48
41:l4:188:ARG:NE	41:l4:197:ARG:HB3	2.29	0.48
47:m0:48:LEU:O	47:m0:139:ARG:HA	2.14	0.48
53:m7:108:ASP:N	53:m7:152:GLU:OE2	2.39	0.48
54:m8:57:ILE:HG12	54:m8:147:ARG:NE	2.28	0.48
87:n4:13:ILE:HG12	87:n4:32:GLN:HB2	1.94	0.48
67:o1:20:LEU:HD11	67:o1:32:ALA:HB2	1.95	0.48
68:o2:71:HIS:CE1	68:o2:118:LYS:HD3	2.48	0.48
1:2:246:G:N2	13:C1:38:ALA:O	2.47	0.48
5:S3:191:ASP:HB3	5:S3:194:LYS:HG3	1.94	0.48
36:1:535:G:O6	92:1:4478:OHX:N1	2.47	0.48
36:1:715:A:H5"	64:N8:114:GLY:O	2.13	0.48
36:1:1656:A:H4'	36:1:1657:C:O5'	2.13	0.48
36:1:1658:G:H2'	36:1:1659:U:H6	1.79	0.48
36:1:1770:G:H5'	36:1:1771:C:OP2	2.14	0.48
92:1:4105:OHX:N1	92:1:4501:OHX:N3	2.62	0.48
40:L3:178:LEU:HD12	40:L3:179:ALA:H	1.79	0.48
46:L9:76:ASP:O	46:L9:80:THR:HG23	2.14	0.48
60:N4:5:ILE:HG13	60:N4:6:ASP:N	2.28	0.48
1:6:79:C:H4'	8:s6:173:PRO:O	2.13	0.48
1:6:579:A:N1	5:s3:144:ALA:HB2	2.28	0.48
1:6:846:G:C2	1:6:847:A:C4	3.02	0.48
1:6:867:G:N7	92:6:2153:OHX:N1	2.61	0.48
1:6:886:U:H2'	1:6:887:A:C8	2.48	0.48
8:s6:67:VAL:O	8:s6:68:LEU:HB2	2.13	0.48
13:c1:17:PRO:HG3	13:c1:63:LEU:HD11	1.93	0.48
13:c1:112:SER:C	13:c1:114:ALA:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:c2:88:LEU:O	81:c2:89:ILE:HB	2.13	0.48
82:c5:122:THR:HG22	82:c5:123:TYR:HD1	1.77	0.48
30:d8:19:THR:HG21	30:d8:65:ARG:HA	1.94	0.48
36:5:157:A:C8	72:o6:26:ILE:HG12	2.48	0.48
36:5:688:G:H8	36:5:688:G:O5'	1.95	0.48
36:5:720:A:C2	36:5:784:A:H5'	2.48	0.48
36:5:1752:A:OP2	92:5:4337:OHX:N4	2.47	0.48
38:8:70:G:H5"	62:n6:28:ARG:NH2	2.28	0.48
40:l3:256:HIS:HA	40:l3:257:PRO:C	2.39	0.48
41:l4:192:GLY:HA2	41:l4:195:ARG:HG3	1.95	0.48
41:l4:208:VAL:HA	41:l4:228:ALA:O	2.13	0.48
43:l6:97:ASN:O	43:l6:99:GLU:HG3	2.14	0.48
44:l7:110:ARG:CZ	54:m8:3:ILE:HD12	2.43	0.48
63:n7:13:VAL:HG12	63:n7:19:ALA:HA	1.95	0.48
1:2:495:C:H3'	1:2:496:G:O4'	2.13	0.48
6:S4:128:LYS:HG3	6:S4:140:VAL:HG13	1.95	0.48
8:S6:147:LEU:HB3	8:S6:151:ASP:HB2	1.95	0.48
22:D0:20:ILE:HG13	22:D0:95:ALA:O	2.14	0.48
36:1:883:A:H5'	53:M7:133:HIS:HA	1.94	0.48
36:1:1925:U:O2	79:Q3:19:GLY:HA2	2.13	0.48
36:1:2768:U:H2'	36:1:2769:A:C8	2.48	0.48
36:1:2960:C:H2'	36:1:2961:G:H8	1.78	0.48
36:1:3115:C:OP1	46:L9:62:ARG:NH2	2.46	0.48
37:3:113:C:H2'	37:3:114:U:O4'	2.13	0.48
41:L4:6:VAL:N	41:L4:20:LEU:O	2.40	0.48
41:L4:98:ARG:HD2	41:L4:99:MET:O	2.14	0.48
44:L7:223:PHE:HA	44:L7:227:GLY:O	2.14	0.48
46:L9:20:ILE:HG23	46:L9:25:VAL:HG22	1.95	0.48
48:M1:53:THR:HG23	48:M1:59:ILE:O	2.13	0.48
55:M9:106:LEU:HD13	55:M9:138:LEU:HD11	1.96	0.48
69:O3:6:ARG:HG3	69:O3:8:TYR:CE1	2.48	0.48
70:O4:51:LEU:HD23	70:O4:51:LEU:H	1.79	0.48
71:O5:32:LYS:HG2	71:O5:44:ILE:HD11	1.95	0.48
76:Q0:78:ILE:HG23	76:Q0:83:LYS:HB2	1.95	0.48
79:Q3:55:TRP:CE3	79:Q3:71:VAL:HG22	2.49	0.48
1:6:197:A:H2'	1:6:198:A:C8	2.48	0.48
1:6:587:C:H2'	1:6:588:U:C6	2.48	0.48
1:6:639:U:OP1	9:s7:117:THR:OG1	2.24	0.48
5:s3:74:GLN:HA	5:s3:79:TYR:HB2	1.95	0.48
6:s4:71:LYS:O	6:s4:90:ILE:HA	2.13	0.48
18:c6:115:THR:HG23	18:c6:118:ILE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:d4:23:PHE:HE2	26:d4:75:VAL:HG23	1.78	0.48
27:d5:71:ILE:HG23	27:d5:73:GLY:N	2.28	0.48
36:5:8:C:H2'	36:5:9:U:O4'	2.14	0.48
36:5:621:A:H2'	36:5:622:A:C8	2.48	0.48
36:5:1145:G:H5'	68:o2:46:PHE:CE1	2.49	0.48
36:5:1781:C:H2'	36:5:1782:U:H6	1.76	0.48
36:5:2322:C:OP1	92:5:4426:OHX:N6	2.46	0.48
38:8:150:G:N7	92:8:225:OHX:N5	2.61	0.48
39:l2:10:LYS:HA	39:l2:16:PHE:CD2	2.49	0.48
43:l6:171:PRO:C	43:l6:173:MET:H	2.21	0.48
44:l7:103:LEU:HA	44:l7:130:ILE:HD11	1.95	0.48
44:l7:150:LYS:HE2	44:l7:151:ARG:NH1	2.29	0.48
47:m0:193:ASP:HB2	47:m0:198:LYS:HG3	1.95	0.48
50:m4:109:ARG:HD3	52:m6:199:TYR:CZ	2.48	0.48
52:m6:64:PHE:HE1	52:m6:68:ARG:NH1	2.12	0.48
55:m9:6:THR:HG23	55:m9:9:ARG:NH1	2.29	0.48
79:q3:42:CYS:SG	79:q3:44:LYS:HG3	2.53	0.48
1:2:17:C:O2'	1:2:1137:A:N1	2.35	0.48
1:2:1217:A:H5"	12:C0:1:MET:HG3	1.95	0.48
1:2:1480:G:H3'	1:2:1481:C:C6	2.49	0.48
2:S0:140:ASN:OD1	4:S2:62:PRO:HD3	2.13	0.48
6:S4:35:PRO:HD2	6:S4:83:PRO:HG2	1.95	0.48
6:S4:126:VAL:HG13	6:S4:158:ASP:O	2.13	0.48
9:S7:21:ALA:O	9:S7:25:VAL:HG23	2.14	0.48
9:S7:73:VAL:O	9:S7:75:THR:N	2.46	0.48
11:S9:117:GLY:O	11:S9:119:ALA:N	2.47	0.48
14:C2:71:ILE:O	14:C2:75:VAL:HG23	2.13	0.48
36:1:194:U:H2'	36:1:195:U:H6	1.79	0.48
36:1:317:A:H2'	36:1:318:A:C8	2.48	0.48
36:1:1621:A:H2'	36:1:1622:U:H6	1.78	0.48
36:1:2561:A:N1	45:L8:32:LYS:HB2	2.29	0.48
36:1:2727:A:H4'	36:1:2728:G:OP2	2.14	0.48
41:L4:148:ILE:HA	41:L4:149:PRO:C	2.38	0.48
52:M6:148:LYS:HB2	52:M6:149:TYR:CD2	2.48	0.48
56:N0:109:ASP:OD1	56:N0:113:ARG:NH1	2.47	0.48
1:6:1208:A:N1	1:6:1455:G:N2	2.61	0.48
1:6:1306:C:OP1	92:6:2311:OHX:N6	2.47	0.48
1:6:1619:C:H2'	1:6:1620:C:H6	1.79	0.48
11:s9:102:GLU:O	11:s9:106:GLU:N	2.43	0.48
13:c1:21:ASN:ND2	13:c1:31:THR:HA	2.29	0.48
27:d5:42:LEU:HD22	27:d5:47:TYR:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:sR:103:PHE:CD1	83:sR:138:GLY:HA2	2.48	0.48
36:5:1039:U:H2'	36:5:1040:A:C8	2.49	0.48
36:5:1313:G:H2'	36:5:1314:C:C6	2.49	0.48
36:5:1556:C:O2'	92:m5:303:OHX:N1	2.46	0.48
36:5:2890:A:N1	36:5:2913:C:N3	2.61	0.48
36:5:2943:G:N7	40:l3:2:SER:N	2.61	0.48
44:l7:166:ASN:HA	44:l7:169:ILE:HD12	1.96	0.48
48:m1:23:VAL:HB	48:m1:65:ILE:O	2.13	0.48
48:m1:92:ARG:NH2	48:m1:94:ARG:HD2	2.29	0.48
48:m1:108:GLU:HA	48:m1:122:ILE:HG23	1.95	0.48
86:m2:63:UNK:HA	86:m2:71:UNK:O	2.14	0.48
50:m4:19:ARG:HA	50:m4:69:THR:HG22	1.94	0.48
55:m9:12:ALA:HB1	55:m9:17:VAL:O	2.13	0.48
59:n3:93:LEU:HD23	59:n3:93:LEU:H	1.78	0.48
71:o5:119:LYS:HA	71:o5:119:LYS:HD2	1.39	0.48
78:q2:2:VAL:HG23	78:q2:91:PHE:HD1	1.79	0.48
1:2:1:U:O2	1:2:369:A:H2'	2.14	0.48
1:2:479:C:O2	1:2:510:G:N2	2.47	0.48
6:S4:86:PHE:CE1	6:S4:87:MET:HE2	2.48	0.48
9:S7:51:VAL:HG12	9:S7:53:GLY:N	2.22	0.48
9:S7:159:VAL:HG13	9:S7:163:ASP:OD1	2.14	0.48
10:S8:34:ALA:HB2	10:S8:56:ARG:HG3	1.96	0.48
21:C9:125:SER:OG	21:C9:128:GLY:N	2.45	0.48
22:D0:27:THR:HB	22:D0:88:LYS:HG3	1.96	0.48
34:SR:20:VAL:HG11	34:SR:310:ILE:HG12	1.94	0.48
36:1:283:G:O2'	64:N8:59:ARG:NH1	2.47	0.48
36:1:299:G:N7	92:1:4315:OHX:N2	2.62	0.48
36:1:331:G:O6	92:1:4277:OHX:N5	2.46	0.48
36:1:1090:G:H2'	36:1:1091:A:H8	1.79	0.48
36:1:1352:A:H4'	36:1:1353:U:OP1	2.14	0.48
36:1:1672:U:O2'	36:1:1673:G:H5'	2.14	0.48
36:1:1763:U:H5'	36:1:1764:U:OP2	2.13	0.48
37:3:112:G:OP2	92:3:224:OHX:N1	2.46	0.48
47:M0:3:ARG:CZ	47:M0:63:GLU:HG3	2.44	0.48
49:M3:143:ALA:O	49:M3:146:PRO:HD3	2.13	0.48
56:N0:155:ARG:HD3	56:N0:172:TYR:CG	2.48	0.48
70:O4:44:CYS:HB2	70:O4:81:CYS:HB3	1.96	0.48
1:6:194:U:O2	1:6:195:G:O2'	2.27	0.48
1:6:651:G:H3'	92:6:2262:OHX:N3	2.29	0.48
1:6:846:G:H2'	1:6:847:A:C8	2.48	0.48
2:s0:147:THR:O	2:s0:161:PRO:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:126:THR:HG21	3:s1:136:ARG:HH21	1.78	0.48
5:s3:60:GLY:O	5:s3:62:ASN:N	2.47	0.48
5:s3:66:ILE:O	5:s3:70:THR:HG23	2.14	0.48
6:s4:117:GLU:O	6:s4:119:ALA:N	2.43	0.48
7:s5:40:ILE:HG23	7:s5:42:LEU:HG	1.96	0.48
11:s9:93:LEU:HA	11:s9:96:VAL:HG22	1.95	0.48
16:c4:66:ASP:N	16:c4:66:ASP:OD1	2.46	0.48
16:c4:84:ARG:HG3	16:c4:85:ALA:O	2.14	0.48
18:c6:33:GLY:O	21:c9:7:ARG:HD3	2.14	0.48
22:d0:33:GLN:OE1	22:d0:33:GLN:N	2.37	0.48
36:5:436:A:H61	36:5:623:U:H3	1.60	0.48
36:5:766:U:H4'	36:5:767:U:O5'	2.12	0.48
36:5:2202:C:O2'	39:l2:240:ALA:O	2.26	0.48
36:5:2897:A:H2'	36:5:2899:C:C5'	2.41	0.48
36:5:3227:A:H2'	36:5:3228:C:H5'	1.96	0.48
36:5:3267:A:H2'	43:l6:69:PHE:CZ	2.48	0.48
38:8:62:C:H4'	38:8:63:G:O5'	2.14	0.48
42:l5:88:ILE:HD12	42:l5:240:TYR:CE1	2.48	0.48
62:n6:52:ARG:HA	62:n6:70:ILE:CG2	2.43	0.48
72:o6:25:LYS:HB2	72:o6:28:TYR:HD2	1.79	0.48
1:2:74:U:H1'	1:2:75:U:O5'	2.14	0.48
1:2:992:A:O2'	1:2:1785:U:O2	2.32	0.48
1:2:1783:C:H2'	1:2:1784:C:C6	2.49	0.48
3:S1:212:VAL:O	3:S1:214:LYS:N	2.46	0.48
4:S2:45:VAL:HG21	4:S2:68:ILE:HG23	1.96	0.48
6:S4:212:ASP:OD2	6:S4:216:ASN:HB2	2.14	0.48
7:S5:89:ILE:HD12	7:S5:90:ILE:H	1.79	0.48
7:S5:94:THR:HG22	7:S5:114:ILE:CG1	2.44	0.48
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.49	0.48
11:S9:90:LYS:HB2	11:S9:95:TYR:CD1	2.49	0.48
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	1.95	0.48
22:D0:118:VAL:HG22	22:D0:119:ALA:H	1.79	0.48
30:D8:41:VAL:O	30:D8:62:GLU:HB2	2.14	0.48
36:1:696:C:OP1	41:L4:272:VAL:HG23	2.14	0.48
36:1:1236:G:N2	36:1:1244:A:H4'	2.29	0.48
36:1:1534:A:OP1	92:1:4110:OHX:N2	2.47	0.48
36:1:2616:C:H2'	36:1:2617:U:H5'	1.96	0.48
36:1:3027:A:H2'	36:1:3028:G:O4'	2.14	0.48
36:1:3066:U:H2'	36:1:3067:C:C6	2.49	0.48
36:1:3113:A:OP1	46:L9:73:SER:OG	2.29	0.48
36:1:3152:U:O2'	36:1:3153:U:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:68:HIS:CD2	40:L3:69:LYS:HG3	2.49	0.48
42:L5:34:LYS:HD2	57:N1:30:TYR:CE2	2.49	0.48
44:L7:142:SER:O	44:L7:146:GLN:HG3	2.13	0.48
51:M5:140:LYS:NZ	71:O5:96:GLU:OE2	2.37	0.48
55:M9:71:ARG:HB3	55:M9:71:ARG:HH11	1.77	0.48
1:6:1163:A:N3	1:6:1613:U:O2'	2.38	0.48
1:6:1699:G:H2'	1:6:1700:C:H5'	1.95	0.48
8:s6:153:VAL:HG21	8:s6:175:ILE:HG21	1.96	0.48
9:s7:16:LEU:O	9:s7:20:VAL:HG23	2.13	0.48
31:d9:19:ARG:HD3	31:d9:32:ARG:HD2	1.96	0.48
36:5:19:U:O4	92:5:4363:OHX:N6	2.46	0.48
36:5:291:C:OP1	51:m5:68:ARG:HG3	2.14	0.48
36:5:421:G:O2'	36:5:422:A:H5"	2.13	0.48
36:5:801:A:O2'	92:5:4286:OHX:N1	2.47	0.48
36:5:2167:A:OP1	51:m5:72:LYS:NZ	2.44	0.48
36:5:2218:G:H2'	36:5:2219:A:C8	2.49	0.48
36:5:2298:U:OP1	92:5:4203:OHX:N1	2.47	0.48
36:5:2426:U:H2'	36:5:2427:U:C6	2.49	0.48
40:l3:277:SER:OG	40:l3:280:HIS:NE2	2.35	0.48
41:l4:186:LYS:O	41:l4:200:THR:N	2.47	0.48
42:l5:126:GLU:HA	42:l5:196:ARG:HD2	1.95	0.48
42:l5:184:ASP:HB3	42:l5:187:THR:HB	1.95	0.48
43:l6:149:ILE:HG23	43:l6:155:LEU:HD13	1.94	0.48
85:l8:52:TRP:CD1	85:l8:60:ARG:HH12	2.32	0.48
85:l8:146:LYS:HD3	85:l8:173:MET:O	2.14	0.48
47:m0:84:ALA:O	47:m0:140:THR:HG22	2.13	0.48
49:m3:6:ASN:O	49:m3:7:LEU:HD23	2.14	0.48
51:m5:8:GLU:HG3	51:m5:50:ARG:HH12	1.77	0.48
59:n3:21:ALA:HB3	59:n3:36:ILE:HD12	1.95	0.48
61:n5:34:LEU:HD23	61:n5:35:PRO:HD2	1.96	0.48
68:o2:41:VAL:HG12	68:o2:46:PHE:HB2	1.96	0.48
69:o3:80:VAL:HG12	69:o3:81:VAL:H	1.79	0.48
70:o4:41:ARG:HG2	70:o4:56:THR:HG21	1.95	0.48
76:q0:110:CYS:SG	76:q0:111:ARG:N	2.87	0.48
1:2:1488:G:N2	1:2:1495:C:O2	2.42	0.48
1:2:1657:U:H1'	1:2:1658:G:OP2	2.13	0.48
1:2:1672:G:H2'	1:2:1673:G:C8	2.49	0.48
2:S0:52:LYS:H	2:S0:52:LYS:HG2	1.30	0.48
3:S1:146:GLN:H	3:S1:149:GLN:NE2	2.12	0.48
4:S2:111:VAL:O	4:S2:136:VAL:HA	2.14	0.48
4:S2:156:THR:HB	24:D2:95:PRO:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:213:SER:O	6:S4:214:LEU:HD12	2.14	0.48
10:S8:70:GLU:HG3	10:S8:112:TRP:CZ3	2.49	0.48
17:C5:10:ARG:O	17:C5:12:PHE:N	2.46	0.48
19:C7:77:GLU:O	19:C7:81:LYS:HB2	2.14	0.48
21:C9:38:LYS:O	21:C9:40:SER:N	2.43	0.48
27:D5:56:THR:HA	27:D5:103:ARG:HH11	1.79	0.48
36:1:304:G:H5'	36:1:304:G:N3	2.29	0.48
36:1:1244:A:N6	36:1:1271:A:OP2	2.46	0.48
36:1:1853:U:O4	92:1:4212:OHX:N5	2.47	0.48
36:1:3182:G:H2'	36:1:3183:A:O4'	2.14	0.48
41:L4:261:VAL:HG23	41:L4:271:LYS:HE2	1.95	0.48
41:L4:295:ILE:O	41:L4:299:ILE:HG12	2.14	0.48
52:M6:18:ARG:O	52:M6:22:VAL:HG13	2.13	0.48
62:N6:37:LYS:H	62:N6:37:LYS:CD	2.27	0.48
62:N6:53:ASP:O	62:N6:110:HIS:HB2	2.13	0.48
64:N8:56:VAL:HG13	64:N8:57:GLY:N	2.28	0.48
66:O0:98:SER:OG	66:O0:99:ASP:N	2.47	0.48
1:6:794:U:H2'	1:6:794:U:OP2	2.14	0.48
1:6:1636:C:C4	1:6:1765:A:N1	2.82	0.48
3:s1:180:THR:HG23	3:s1:183:GLN:NE2	2.27	0.48
8:s6:162:VAL:HB	8:s6:169:TYR:HE2	1.79	0.48
21:c9:40:SER:HB2	21:c9:96:ALA:HA	1.95	0.48
27:d5:55:PRO:HG3	27:d5:88:ILE:HG23	1.95	0.48
83:sR:251:TRP:CZ2	83:sR:271:VAL:HG11	2.49	0.48
84:sM:23:LYS:NZ	84:sM:23:LYS:HA	2.29	0.48
36:5:306:A:C2	36:5:2784:G:H1'	2.48	0.48
36:5:556:U:H5'	36:5:557:A:C2	2.49	0.48
36:5:655:C:H2'	36:5:656:A:H8	1.78	0.48
36:5:768:C:OP1	49:m3:186:ARG:NH2	2.47	0.48
36:5:1549:U:H2'	36:5:1550:C:C6	2.49	0.48
36:5:2257:C:H2'	36:5:2258:U:H6	1.79	0.48
36:5:3368:U:OP2	40:l3:384:LYS:HD2	2.14	0.48
44:l7:33:ARG:HA	44:l7:36:ALA:HB3	1.96	0.48
54:m8:89:ASP:OD1	54:m8:90:ASP:N	2.47	0.48
1:2:558:U:O2'	1:2:559:C:O5'	2.28	0.47
1:2:1163:A:N6	1:2:1164:G:C6	2.81	0.47
9:S7:28:GLU:O	9:S7:30:SER:N	2.47	0.47
12:C0:11:ILE:HD13	12:C0:35:ILE:HD13	1.95	0.47
21:C9:85:SER:C	21:C9:87:GLY:H	2.22	0.47
26:D4:53:ASP:O	26:D4:79:VAL:HG13	2.14	0.47
36:1:1508:C:C6	36:1:1880:U:H1'	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2190:U:C4	36:1:2191:U:C4	3.02	0.47
40:L3:62:ARG:H	40:L3:68:HIS:HD1	1.61	0.47
41:L4:52:VAL:CG1	41:L4:99:MET:HE3	2.44	0.47
41:L4:283:THR:HG22	41:L4:285:ASP:N	2.21	0.47
43:L6:108:LYS:C	43:L6:109:GLU:HG2	2.39	0.47
44:L7:136:TYR:CE2	44:L7:231:ASN:HB2	2.49	0.47
47:M0:169:LYS:NZ	57:N1:159:PHE:H	2.12	0.47
49:M3:48:PRO:HB2	71:O5:117:ALA:HB2	1.94	0.47
50:M4:32:LEU:HD11	50:M4:94:TRP:CG	2.48	0.47
67:O1:80:ASN:OD1	67:O1:81:GLU:N	2.47	0.47
71:O5:86:ARG:O	71:O5:90:ARG:HG2	2.14	0.47
1:6:913:G:H3'	1:6:914:G:C5'	2.44	0.47
1:6:1526:A:N1	1:6:1608:U:O2'	2.40	0.47
1:6:1680:G:O6	92:6:2310:OHX:N1	2.47	0.47
3:s1:184:LEU:O	3:s1:188:LEU:HG	2.13	0.47
6:s4:31:PRO:HG2	6:s4:38:LEU:HB2	1.94	0.47
7:s5:41:LYS:HE2	7:s5:41:LYS:HB3	1.56	0.47
11:s9:62:ARG:CZ	11:s9:68:LYS:HD3	2.44	0.47
11:s9:168:ARG:HH21	11:s9:174:ARG:HH11	1.62	0.47
11:s9:171:ARG:HE	11:s9:174:ARG:HB2	1.79	0.47
21:c9:115:GLU:HG3	21:c9:123:ARG:HD3	1.96	0.47
24:d2:8:ALA:HB2	24:d2:74:VAL:HG11	1.96	0.47
83:sR:12:THR:HG22	83:sR:311:ARG:HG2	1.95	0.47
84:sM:34:LYS:HD3	84:sM:34:LYS:HA	1.66	0.47
36:5:2683:U:O2	36:5:2683:U:H2'	2.14	0.47
40:l3:167:ARG:O	92:l3:412:OHX:N5	2.47	0.47
41:l4:169:LEU:HD22	41:l4:249:ILE:HD12	1.95	0.47
42:l5:29:ASP:OD2	42:l5:29:ASP:C	2.57	0.47
42:l5:95:TRP:CZ2	42:l5:181:PRO:HD3	2.49	0.47
42:l5:234:ASP:OD1	92:l5:308:OHX:N5	2.47	0.47
48:m1:16:LYS:HB3	48:m1:72:ARG:HG2	1.95	0.47
50:m4:72:LEU:HD23	50:m4:73:PRO:HD2	1.95	0.47
62:n6:70:ILE:HD12	62:n6:82:VAL:HG22	1.96	0.47
62:n6:126:LEU:HB3	62:n6:127:GLU:OE1	2.14	0.47
67:o1:62:ARG:HB2	67:o1:66:GLY:O	2.14	0.47
71:o5:4:VAL:HG11	71:o5:9:LEU:HD11	1.96	0.47
75:o9:28:ARG:HA	75:o9:33:ASN:ND2	2.29	0.47
76:q0:114:LYS:HG2	76:q0:115:CYS:N	2.27	0.47
78:q2:77:CYS:O	78:q2:78:LYS:HD3	2.14	0.47
90:A:76:PPU:H5'	90:A:76:PPU:O	2.14	0.47
1:2:187:G:H4'	1:2:188:A:OP1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:422:G:N7	92:2:2156:OHX:N5	2.63	0.47
1:2:992:A:H2	1:2:1012:U:N3	2.03	0.47
1:2:1057:U:H1'	1:2:1058:U:H2'	1.94	0.47
1:2:1061:A:H2'	1:2:1062:A:H5'	1.95	0.47
1:2:1370:U:H4'	1:2:1371:A:C5'	2.44	0.47
1:2:1428:G:H5'	1:2:1428:G:H8	1.78	0.47
1:2:1450:U:O5'	1:2:1450:U:H6	1.97	0.47
1:2:1662:G:O2'	1:2:1663:G:H5'	2.14	0.47
1:2:1762:A:H1'	1:2:1783:C:H5'	1.95	0.47
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.14	0.47
15:C3:20:ARG:O	15:C3:65:VAL:HG13	2.14	0.47
31:D9:22:ARG:HD2	31:D9:38:ILE:HD11	1.96	0.47
36:1:1495:U:C5	36:1:1835:A:N1	2.82	0.47
36:1:1584:U:H2'	36:1:1585:C:H6	1.78	0.47
36:1:1664:G:OP2	92:1:4468:OHX:N5	2.47	0.47
36:1:1839:A:OP2	92:1:4210:OHX:N3	2.46	0.47
36:1:1922:A:H2'	36:1:1923:C:O4'	2.14	0.47
36:1:3348:G:H1	36:1:3357:U:H3	1.62	0.47
38:4:23:U:H1'	62:N6:17:LYS:HG2	1.96	0.47
40:L3:41:VAL:HA	40:L3:185:GLY:CA	2.43	0.47
40:L3:55:THR:O	40:L3:56:ILE:HD12	2.14	0.47
40:L3:305:ILE:HG12	40:L3:321:PHE:CZ	2.49	0.47
41:L4:292:SER:HB3	41:L4:295:ILE:HB	1.96	0.47
48:M1:8:PRO:CD	48:M1:9:MET:H	2.28	0.47
53:M7:131:ARG:HG3	53:M7:137:ASN:OD1	2.14	0.47
57:N1:12:ARG:HD3	57:N1:13:TYR:CE1	2.49	0.47
57:N1:83:ARG:NH1	57:N1:85:LEU:HD21	2.29	0.47
61:N5:60:TYR:OH	71:O5:26:LYS:HG3	2.13	0.47
70:O4:98:GLN:O	70:O4:102:LYS:HD3	2.13	0.47
71:O5:38:ARG:HG3	71:O5:39:PRO:HD2	1.95	0.47
72:O6:70:ARG:NH1	72:O6:84:LYS:HD3	2.29	0.47
1:6:53:G:H2'	1:6:54:C:O4'	2.14	0.47
4:s2:37:PRO:HG3	4:s2:46:LYS:HD2	1.95	0.47
7:s5:117:THR:HG21	7:s5:194:LEU:HB3	1.94	0.47
8:s6:127:THR:OG1	8:s6:128:THR:N	2.46	0.47
15:c3:36:GLN:NE2	15:c3:39:LYS:HD2	2.28	0.47
24:d2:22:LYS:HD2	29:d7:3:LEU:HD23	1.95	0.47
83:sR:169:ILE:HD13	83:sR:183:LEU:HD21	1.95	0.47
36:5:592:A:H5'	43:l6:17:ALA:O	2.14	0.47
36:5:607:A:OP1	43:l6:26:ARG:NH2	2.47	0.47
36:5:653:A:H5'	36:5:2361:A:H5"	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:665:A:H1'	49:m3:14:PHE:CE1	2.49	0.47
36:5:1262:G:H5"	36:5:1263:A:OP2	2.13	0.47
36:5:1912:U:N3	36:5:2122:G:OP2	2.42	0.47
36:5:2294:U:O2	36:5:2296:A:H8	1.97	0.47
36:5:2533:G:H1	36:5:2546:C:H42	1.62	0.47
36:5:2689:A:H2'	36:5:2689:A:N3	2.29	0.47
36:5:2904:U:H2'	36:5:2905:U:C6	2.49	0.47
36:5:3216:G:OP2	69:o3:2:ALA:HB2	2.15	0.47
38:8:19:C:H2'	38:8:20:U:O4'	2.14	0.47
38:8:53:A:C2	75:o9:35:ILE:HD11	2.50	0.47
40:l3:14:LEU:HD22	40:l3:17:LEU:HD21	1.96	0.47
42:l5:289:LYS:O	42:l5:292:ALA:HB3	2.14	0.47
48:m1:80:LEU:HD22	48:m1:84:LEU:HG	1.96	0.47
48:m1:91:LEU:O	48:m1:171:VAL:HA	2.15	0.47
1:2:144:U:H5	8:S6:137:ARG:HH12	1.61	0.47
1:2:190:C:O2'	1:2:191:C:H5'	2.15	0.47
1:2:229:U:H3	1:2:236:A:H61	1.61	0.47
1:2:1498:G:O2'	1:2:1499:G:H5'	2.15	0.47
1:2:1695:G:H21	1:2:1706:C:N4	2.12	0.47
8:S6:148:SER:C	8:S6:150:GLU:H	2.23	0.47
16:C4:57:PRO:HB3	16:C4:100:ALA:HB2	1.95	0.47
19:C7:71:PHE:CD1	19:C7:73:LEU:HB3	2.48	0.47
29:D7:59:CYS:O	29:D7:61:THR:HG22	2.14	0.47
36:1:385:A:H2'	36:1:386:A:H8	1.76	0.47
36:1:1098:A:O2'	57:N1:130:ARG:O	2.28	0.47
36:1:1717:U:H2'	36:1:1718:G:C8	2.48	0.47
36:1:2407:C:H2'	36:1:2408:U:C6	2.48	0.47
36:1:3317:U:H4'	36:1:3318:G:O5'	2.15	0.47
40:L3:150:ARG:HG2	40:L3:150:ARG:HH11	1.79	0.47
41:L4:23:PRO:HD2	41:L4:26:PHE:HD2	1.76	0.47
61:N5:47:ALA:HB3	71:O5:77:PRO:HG3	1.96	0.47
67:O1:72:ARG:HD3	67:O1:104:LEU:HD12	1.96	0.47
70:O4:99:LYS:O	70:O4:103:LYS:HG2	2.14	0.47
76:Q0:114:LYS:HG2	76:Q0:115:CYS:N	2.28	0.47
1:6:151:G:N2	1:6:164:A:C4	2.82	0.47
1:6:347:G:OP1	13:c1:77:SER:OG	2.26	0.47
1:6:758:U:OP1	11:s9:7:THR:HG21	2.14	0.47
1:6:1797:A:C6	28:d6:87:ARG:HD2	2.49	0.47
2:s0:168:HIS:HB3	2:s0:203:PHE:CZ	2.49	0.47
10:s8:70:GLU:OE1	13:c1:24:LYS:HD3	2.15	0.47
11:s9:104:PHE:O	11:s9:147:MET:HE1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:65:VAL:HG12	15:c3:66:ILE:CG2	2.44	0.47
24:d2:93:LEU:O	24:d2:94:LEU:HD23	2.14	0.47
36:5:174:C:H2'	36:5:175:C:C6	2.48	0.47
36:5:287:G:OP1	51:m5:179:LYS:HD3	2.14	0.47
36:5:595:G:C8	36:5:609:G:C6	3.02	0.47
36:5:993:G:N3	36:5:2637:A:H2'	2.29	0.47
36:5:2516:U:O2	36:5:2594:C:N4	2.47	0.47
36:5:2772:C:H1'	36:5:2773:C:OP2	2.15	0.47
41:l4:281:ILE:HG13	54:m8:125:ASP:CG	2.39	0.47
42:l5:65:ILE:HD13	42:l5:74:VAL:HB	1.95	0.47
85:l8:205:ALA:C	85:l8:207:ASP:H	2.22	0.47
47:m0:171:TRP:O	47:m0:174:THR:HG22	2.14	0.47
65:n9:37:PRO:O	65:n9:40:ARG:HB2	2.14	0.47
71:o5:21:LEU:HD21	71:o5:51:ILE:HG23	1.96	0.47
78:q2:8:ARG:HH21	78:q2:83:LEU:HD13	1.79	0.47
1:2:735:C:H2'	1:2:735:C:OP2	2.14	0.47
1:2:763:G:C6	1:2:764:U:C4	3.02	0.47
1:2:1520:U:O2	92:2:2105:OHX:N6	2.47	0.47
12:C0:68:LEU:HD11	12:C0:76:LEU:HD21	1.96	0.47
20:C8:63:GLN:HA	20:C8:66:LEU:HD12	1.96	0.47
34:SR:44:SER:OG	34:SR:59:ARG:HB2	2.14	0.47
34:SR:88:THR:HG22	34:SR:104:VAL:HG22	1.96	0.47
36:1:1054:A:H5"	36:1:2637:A:H61	1.80	0.47
36:1:1234:G:O6	92:1:4342:OHX:N6	2.47	0.47
36:1:1723:A:OP2	55:M9:103:ARG:NH2	2.43	0.47
36:1:2128:C:OP1	92:1:4191:OHX:N2	2.47	0.47
36:1:2603:G:O6	92:1:4100:OHX:N2	2.47	0.47
43:L6:43:LEU:HD21	43:L6:85:ILE:HG13	1.96	0.47
45:L8:161:GLU:OE1	51:M5:26:ARG:NH1	2.28	0.47
47:M0:43:VAL:HG21	47:M0:197:VAL:HG13	1.97	0.47
47:M0:57:LEU:HD23	47:M0:130:ASP:HA	1.96	0.47
64:N8:47:LYS:HE2	64:N8:48:TYR:CE2	2.50	0.47
66:O0:10:ILE:HG12	66:O0:68:TYR:HE2	1.80	0.47
69:O3:38:PRO:HD3	69:O3:77:ASN:O	2.15	0.47
71:O5:118:ILE:O	71:O5:119:LYS:HB2	2.14	0.47
1:6:832:U:OP2	92:6:2266:OHX:N6	2.47	0.47
1:6:1382:A:O2'	1:6:1383:G:H5"	2.14	0.47
5:s3:116:ARG:HG3	5:s3:152:PHE:CE1	2.49	0.47
7:s5:35:GLN:C	7:s5:37:GLN:H	2.22	0.47
8:s6:153:VAL:HG23	8:s6:154:ARG:H	1.79	0.47
10:s8:66:SER:HB3	10:s8:73:SER:OG	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c4:80:HIS:ND1	16:c4:113:GLY:O	2.48	0.47
83:sR:255:ALA:N	83:sR:292:LEU:HD11	2.29	0.47
36:5:304:G:C6	51:m5:178:HIS:CD2	3.03	0.47
36:5:1691:U:H2'	36:5:1692:U:H6	1.79	0.47
36:5:2261:G:O2'	36:5:2263:C:N4	2.47	0.47
36:5:2537:U:O2'	36:5:2538:U:O5'	2.32	0.47
41:l4:186:LYS:N	41:l4:200:THR:O	2.41	0.47
41:l4:271:LYS:O	41:l4:272:VAL:C	2.57	0.47
46:l9:94:TYR:CD2	46:l9:98:PRO:HA	2.49	0.47
47:m0:169:LYS:O	47:m0:170:LYS:HD3	2.14	0.47
49:m3:8:PRO:HD3	54:m8:164:ARG:HB3	1.97	0.47
49:m3:46:ILE:HD13	49:m3:46:ILE:HA	1.74	0.47
51:m5:73:ARG:C	51:m5:75:VAL:H	2.21	0.47
52:m6:38:ALA:O	52:m6:41:LEU:HB2	2.15	0.47
53:m7:29:THR:HG22	53:m7:87:SER:OG	2.14	0.47
70:o4:8:ARG:NH2	70:o4:31:ARG:HD2	2.25	0.47
1:2:705:U:H4'	1:2:705:U:OP1	2.14	0.47
1:2:781:U:O2'	1:2:782:U:O5'	2.33	0.47
1:2:788:A:H2'	6:S4:19:LEU:HD22	1.96	0.47
1:2:795:U:OP2	24:D2:82:LYS:NZ	2.42	0.47
1:2:1256:A:H4'	1:2:1257:U:O5'	2.14	0.47
1:2:1407:U:H2'	1:2:1408:G:O4'	2.14	0.47
2:S0:120:LEU:HD11	2:S0:144:ILE:HG13	1.96	0.47
3:S1:181:LEU:O	3:S1:184:LEU:N	2.48	0.47
6:S4:104:ASP:HB2	6:S4:108:ARG:H	1.79	0.47
10:S8:197:THR:C	10:S8:199:LYS:H	2.22	0.47
15:C3:16:ILE:HG22	24:D2:57:ARG:NH2	2.28	0.47
16:C4:19:ILE:HG12	16:C4:28:VAL:HG22	1.97	0.47
27:D5:55:PRO:C	27:D5:57:TYR:H	2.23	0.47
27:D5:70:LYS:HG3	27:D5:71:ILE:H	1.79	0.47
34:SR:16:HIS:CE1	34:SR:37:SER:HB2	2.49	0.47
36:1:29:C:H4'	36:1:62:A:H4'	1.97	0.47
36:1:1069:C:H2'	36:1:1070:U:H6	1.79	0.47
36:1:1652:G:O2'	70:O4:45:GLY:HA3	2.14	0.47
36:1:1790:G:O6	92:1:4420:OHX:N4	2.48	0.47
36:1:2768:U:H2'	36:1:2769:A:H8	1.79	0.47
40:L3:77:THR:OG1	40:L3:324:VAL:HG12	2.13	0.47
42:L5:184:ASP:HB3	42:L5:187:THR:O	2.14	0.47
45:L8:74:THR:HB	45:L8:230:LYS:HZ2	1.78	0.47
46:L9:90:MET:HG2	46:L9:181:VAL:HG22	1.96	0.47
55:M9:43:LYS:H	55:M9:43:LYS:HG2	1.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:67:ILE:CD1	61:N5:115:ARG:HH21	2.27	0.47
1:6:30:G:H2'	1:6:31:C:C6	2.48	0.47
1:6:959:U:H5"	15:c3:15:ALA:O	2.14	0.47
1:6:1455:G:OP1	82:c5:122:THR:HG21	2.14	0.47
4:s2:226:THR:OG1	4:s2:228:ASN:HB2	2.14	0.47
25:d3:43:PHE:HZ	25:d3:104:LEU:HB2	1.80	0.47
83:sR:80:ALA:O	83:sR:92:TRP:N	2.36	0.47
36:5:71:A:OP2	64:n8:67:HIS:NE2	2.48	0.47
36:5:144:A:N6	36:5:145:G:C2	2.82	0.47
36:5:176:G:OP2	92:5:4530:OHX:N4	2.48	0.47
36:5:411:U:H2'	36:5:412:G:H8	1.80	0.47
36:5:1238:C:H2'	36:5:1239:C:O4'	2.14	0.47
36:5:1306:G:C6	52:m6:62:THR:HA	2.50	0.47
36:5:1725:C:H2'	36:5:1726:C:C6	2.49	0.47
36:5:2254:U:H2'	36:5:2261:G:N2	2.29	0.47
36:5:2676:A:H4'	36:5:2677:G:O5'	2.14	0.47
36:5:2984:C:H2'	36:5:2985:C:C6	2.49	0.47
36:5:2984:C:H2'	36:5:2985:C:H6	1.80	0.47
92:5:4263:OHX:N5	55:m9:87:ALA:O	2.48	0.47
40:l3:339:ARG:HG2	40:l3:340:LYS:O	2.15	0.47
44:l7:147:LEU:HD22	44:l7:205:PHE:CD1	2.50	0.47
85:l8:163:VAL:HG22	85:l8:166:LEU:HD12	1.96	0.47
46:l9:8:GLN:HG2	46:l9:68:LEU:HD13	1.95	0.47
46:l9:162:GLN:HG3	46:l9:163:GLN:N	2.28	0.47
64:n8:6:THR:HG23	64:n8:8:THR:H	1.79	0.47
64:n8:47:LYS:HE3	64:n8:48:TYR:CE2	2.49	0.47
66:o0:75:ASN:HA	66:o0:86:ARG:HB2	1.95	0.47
76:q0:88:LYS:HE3	76:q0:88:LYS:HB3	1.63	0.47
1:2:6:G:OP2	4:S2:205:ARG:HD2	2.14	0.47
1:2:32:U:O2'	1:2:546:U:H4'	2.15	0.47
1:2:109:G:O2'	1:2:796:A:N1	2.38	0.47
1:2:1528:U:H2'	1:2:1529:C:H6	1.79	0.47
1:2:1788:G:P	16:C4:127:ARG:HH12	2.37	0.47
3:S1:112:SER:OG	3:S1:113:MET:N	2.45	0.47
3:S1:184:LEU:O	3:S1:188:LEU:HG	2.14	0.47
5:S3:190:ARG:HH12	5:S3:195:SER:HA	1.79	0.47
13:C1:21:ASN:HD22	13:C1:32:LYS:H	1.61	0.47
13:C1:122:ILE:H	13:C1:144:ALA:HB2	1.80	0.47
14:C2:131:ASP:OD1	14:C2:132:GLU:N	2.47	0.47
36:1:108:A:H4'	36:1:323:A:N1	2.29	0.47
36:1:1076:C:H4'	65:N9:38:LYS:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1496:C:C2	36:1:1521:G:N2	2.82	0.47
36:1:1927:G:OP1	79:Q3:8:VAL:HG13	2.15	0.47
36:1:2255:A:OP2	36:1:2261:G:N2	2.38	0.47
36:1:3344:A:H2	36:1:3361:G:N2	2.06	0.47
37:3:46:A:P	42:L5:158:ARG:HH11	2.37	0.47
39:L2:83:HIS:NE2	39:L2:86:GLN:HB2	2.28	0.47
41:L4:358:THR:HG21	57:N1:148:PRO:HD2	1.96	0.47
44:L7:26:VAL:CG1	44:L7:27:ALA:H	2.27	0.47
46:L9:91:ARG:HG3	46:L9:91:ARG:NH2	2.30	0.47
63:N7:14:VAL:HG21	70:O4:90:ILE:HD11	1.95	0.47
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.48	0.47
1:6:94:U:H2'	1:6:95:G:O4'	2.15	0.47
1:6:319:U:H1'	1:6:323:A:C4	2.49	0.47
1:6:919:A:H5'	16:c4:35:GLY:HA3	1.95	0.47
1:6:959:U:O2	15:c3:17:PRO:HG3	2.14	0.47
1:6:1111:G:C6	1:6:1112:G:C4	3.02	0.47
1:6:1218:G:O6	1:6:1444:A:H2'	2.15	0.47
1:6:1703:C:H2'	1:6:1704:U:H6	1.79	0.47
3:s1:33:LYS:O	3:s1:98:THR:OG1	2.20	0.47
3:s1:180:THR:OG1	3:s1:181:LEU:N	2.42	0.47
7:s5:43:PHE:CG	7:s5:44:ASN:N	2.82	0.47
18:c6:79:TYR:HA	18:c6:82:ARG:HG2	1.96	0.47
36:5:20:A:O2'	36:5:21:G:H5'	2.14	0.47
36:5:1716:U:H6	36:5:1716:U:H5'	1.80	0.47
36:5:1786:G:H2'	36:5:1787:A:C8	2.50	0.47
36:5:2239:G:N7	92:5:4465:OHX:N5	2.62	0.47
36:5:2261:G:H21	36:5:2262:A:N6	2.13	0.47
36:5:2304:C:C5	36:5:2305:G:C6	3.02	0.47
36:5:2746:A:H2	42:l5:146:LEU:HB3	1.79	0.47
36:5:3027:A:H2'	36:5:3028:G:O4'	2.13	0.47
36:5:3177:G:O2'	36:5:3179:U:OP1	2.25	0.47
36:5:3350:C:H2'	36:5:3351:U:O2	2.14	0.47
38:8:132:G:N7	92:8:228:OHX:N2	2.63	0.47
41:l4:131:VAL:O	41:l4:135:VAL:HG23	2.15	0.47
43:l6:11:PRO:HD2	68:o2:91:THR:HG21	1.97	0.47
44:l7:150:LYS:HG2	44:l7:151:ARG:HG3	1.97	0.47
85:l8:166:LEU:HA	85:l8:166:LEU:HD23	1.67	0.47
47:m0:208:ASN:HA	47:m0:211:ARG:HG2	1.96	0.47
52:m6:61:ALA:HA	52:m6:70:PRO:HD2	1.95	0.47
52:m6:76:PRO:HD2	52:m6:106:GLU:OE1	2.15	0.47
63:n7:10:VAL:O	63:n7:83:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:64:U:O2'	1:2:168:A:N3	2.39	0.47
1:2:480:G:N2	1:2:509:G:H1'	2.30	0.47
1:2:702:G:C6	1:2:737:A:N6	2.83	0.47
1:2:840:U:O2'	1:2:841:U:H5"	2.15	0.47
1:2:978:A:H2'	1:2:979:A:O4'	2.14	0.47
1:2:1183:A:C6	1:2:1184:A:N1	2.83	0.47
2:S0:107:PHE:HB3	2:S0:139:VAL:HG21	1.97	0.47
4:S2:106:ASP:O	4:S2:107:SER:OG	2.30	0.47
4:S2:165:VAL:HA	4:S2:201:ASN:O	2.15	0.47
5:S3:29:LEU:HB2	5:S3:34:TYR:HB2	1.97	0.47
8:S6:122:GLU:O	8:S6:124:LEU:N	2.42	0.47
11:S9:112:GLN:HG3	11:S9:148:VAL:HB	1.97	0.47
11:S9:163:PRO:C	11:S9:165:GLY:H	2.22	0.47
19:C7:84:TYR:O	19:C7:86:PRO:HD3	2.14	0.47
20:C8:83:ALA:HA	20:C8:86:LEU:HD22	1.96	0.47
20:C8:84:TRP:HA	20:C8:89:GLN:HE22	1.80	0.47
28:D6:23:CYS:HB2	28:D6:74:CYS:HB3	1.96	0.47
34:SR:81:LEU:HD11	34:SR:122:ILE:HD13	1.96	0.47
34:SR:154:VAL:HG12	34:SR:171:SER:HB3	1.97	0.47
35:SM:53:ARG:HA	35:SM:53:ARG:HE	1.80	0.47
35:SM:102:THR:HG22	35:SM:105:LYS:NZ	2.30	0.47
36:1:422:A:C2	36:1:2363:A:H4'	2.50	0.47
36:1:801:A:O2'	92:1:4215:OHX:N2	2.48	0.47
36:1:846:A:H8	36:1:846:A:OP1	1.98	0.47
36:1:900:G:H1'	36:1:1589:A:H61	1.79	0.47
36:1:1507:G:H5'	36:1:1507:G:N3	2.30	0.47
36:1:1859:A:C2	36:1:1860:G:C8	3.03	0.47
36:1:2207:A:C2'	36:1:2208:A:H5'	2.45	0.47
36:1:3280:U:O2'	36:1:3281:U:OP2	2.29	0.47
92:1:4340:OHX:N1	54:M8:146:SER:OG	2.48	0.47
37:3:43:U:H4'	48:M1:140:ARG:O	2.14	0.47
37:3:85:G:O6	92:3:220:OHX:N4	2.48	0.47
42:L5:107:ARG:NH2	42:L5:120:LYS:HA	2.29	0.47
42:L5:286:VAL:HG13	47:M0:206:LEU:HD22	1.96	0.47
46:L9:1:MET:HE2	46:L9:3:TYR:CD1	2.50	0.47
47:M0:37:GLY:O	47:M0:39:LYS:N	2.48	0.47
49:M3:46:ILE:HG22	49:M3:49:ARG:HB2	1.95	0.47
49:M3:157:ARG:HG2	49:M3:158:ALA:H	1.80	0.47
51:M5:169:LYS:HA	51:M5:174:ILE:HD12	1.96	0.47
53:M7:67:ILE:HG13	53:M7:82:ARG:CZ	2.45	0.47
55:M9:103:ARG:HD2	55:M9:124:TYR:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:24:THR:HG22	66:O0:91:SER:HB3	1.96	0.47
76:Q0:127:LEU:HD22	76:Q0:128:LYS:N	2.29	0.47
79:Q3:73:THR:CG2	79:Q3:76:ALA:H	2.27	0.47
1:6:29:U:O2'	1:6:30:G:H5'	2.15	0.47
1:6:478:A:OP1	32:e0:37:ARG:NH1	2.48	0.47
1:6:762:A:OP1	11:s9:79:ARG:NH1	2.35	0.47
1:6:1750:A:OP1	77:q1:16:LYS:NZ	2.47	0.47
1:6:1795:U:OP1	28:d6:86:VAL:HG12	2.14	0.47
2:s0:185:ARG:HB2	23:d1:45:ALA:HB3	1.96	0.47
8:s6:162:VAL:HB	8:s6:169:TYR:CE2	2.50	0.47
9:s7:21:ALA:O	9:s7:25:VAL:HG23	2.15	0.47
11:s9:41:GLU:HG2	11:s9:44:ARG:HH21	1.79	0.47
82:c5:111:MET:HG2	20:c8:119:ILE:CG1	2.45	0.47
18:c6:32:ASN:HD21	18:c6:69:VAL:HG23	1.79	0.47
21:c9:57:ARG:O	21:c9:61:VAL:HG23	2.15	0.47
24:d2:18:GLU:HG2	24:d2:65:LEU:HG	1.96	0.47
26:d4:57:VAL:HA	26:d4:72:PHE:O	2.15	0.47
29:d7:54:VAL:O	29:d7:63:LEU:N	2.48	0.47
29:d7:74:SER:O	29:d7:77:THR:OG1	2.30	0.47
32:e0:13:LYS:HE3	32:e0:17:GLN:HE22	1.79	0.47
36:5:118:U:O2	36:5:121:A:H5'	2.14	0.47
36:5:119:U:H4'	36:5:120:G:H3'	1.96	0.47
36:5:269:G:H5"	51:m5:14:LYS:HE2	1.96	0.47
36:5:501:A:H2'	36:5:502:U:C6	2.49	0.47
36:5:571:U:H2'	36:5:572:A:H8	1.78	0.47
36:5:589:A:N6	36:5:610:G:H1'	2.30	0.47
36:5:912:G:OP2	39:l2:9:ARG:NH1	2.47	0.47
36:5:972:A:OP1	54:m8:12:ARG:NH2	2.47	0.47
36:5:1160:C:O2'	36:5:1366:A:H5'	2.15	0.47
36:5:1362:G:O2'	44:l7:159:GLN:HA	2.15	0.47
36:5:1363:A:O4'	44:l7:158:LYS:HE2	2.14	0.47
36:5:1471:U:H2'	36:5:1472:U:C6	2.48	0.47
36:5:1517:G:OP1	75:o9:22:PRO:HG3	2.14	0.47
36:5:1863:G:O6	92:5:4252:OHX:N5	2.48	0.47
36:5:2144:A:H1'	36:5:2281:A:H61	1.80	0.47
36:5:2299:A:OP1	92:5:4423:OHX:N1	2.47	0.47
36:5:2709:C:H2'	36:5:2710:C:C6	2.50	0.47
36:5:3047:U:O2'	40:l3:53:MET:HE1	2.15	0.47
36:5:3366:G:H2'	36:5:3367:C:C6	2.49	0.47
38:8:79:A:H2'	38:8:80:A:O4'	2.14	0.47
38:8:106:C:H5"	38:8:108:C:OP2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:83:HIS:CE1	39:l2:86:GLN:HB2	2.50	0.47
40:l3:59:ASP:HA	40:l3:70:ARG:O	2.15	0.47
40:l3:186:GLY:O	40:l3:190:GLU:HB2	2.14	0.47
40:l3:384:LYS:O	92:l3:413:OHX:N6	2.47	0.47
41:l4:229:ASN:OD1	41:l4:231:ALA:N	2.46	0.47
42:l5:59:ASP:OD1	42:l5:81:HIS:HD2	1.98	0.47
42:l5:163:LEU:HD21	42:l5:175:HIS:CB	2.45	0.47
42:l5:261:THR:HG23	42:l5:264:GLN:HE21	1.79	0.47
42:l5:270:LYS:HE2	42:l5:273:ARG:HA	1.95	0.47
46:l9:48:VAL:HG13	46:l9:52:LEU:O	2.15	0.47
50:m4:54:PRO:HG2	50:m4:56:GLN:NE2	2.30	0.47
54:m8:86:THR:CG2	54:m8:105:ARG:HB2	2.45	0.47
65:n9:14:ARG:HH22	65:n9:18:ARG:HH11	1.61	0.47
65:n9:24:PRO:HD2	65:n9:25:LYS:H	1.79	0.47
67:o1:10:ARG:HH12	67:o1:44:MET:HG2	1.80	0.47
75:o9:10:LYS:HA	75:o9:13:MET:HE3	1.95	0.47
88:p0:27:VAL:HG22	88:p0:86:PHE:HE1	1.80	0.47
1:2:416:A:H4'	1:2:417:A:OP2	2.14	0.47
1:2:992:A:H2'	1:2:993:A:H5'	1.95	0.47
1:2:1371:A:H8	1:2:1371:A:OP1	1.98	0.47
1:2:1543:A:H1'	1:2:1569:A:C2	2.50	0.47
5:S3:23:GLU:CD	12:C0:61:TRP:HE1	2.23	0.47
11:S9:134:ILE:HA	11:S9:158:PHE:HA	1.96	0.47
27:D5:94:LYS:HG2	27:D5:95:HIS:HB3	1.96	0.47
28:D6:10:ARG:CB	28:D6:34:LYS:HA	2.45	0.47
30:D8:28:VAL:HG12	30:D8:30:VAL:HG13	1.97	0.47
35:SM:46:LYS:O	36:1:1018:G:H5"	2.15	0.47
36:1:1080:A:OP2	42:L5:140:ARG:NH2	2.47	0.47
36:1:1171:G:N7	92:1:4192:OHX:N5	2.63	0.47
36:1:1431:G:OP2	64:N8:12:ARG:NH1	2.48	0.47
36:1:1447:G:OP2	53:M7:27:LYS:NZ	2.48	0.47
36:1:1819:U:O4	92:1:4275:OHX:N6	2.47	0.47
36:1:2404:A:H2'	36:1:2404:A:N3	2.30	0.47
41:L4:23:PRO:O	41:L4:25:VAL:HG23	2.15	0.47
41:L4:327:LEU:HA	44:L7:166:ASN:ND2	2.30	0.47
41:L4:337:GLU:O	41:L4:339:LEU:N	2.48	0.47
44:L7:80:GLN:HB2	57:N1:135:PRO:CB	2.45	0.47
46:L9:49:ASN:C	46:L9:51:GLN:H	2.21	0.47
53:M7:51:VAL:HA	53:M7:56:ARG:O	2.15	0.47
57:N1:79:MET:HA	57:N1:84:TYR:HA	1.97	0.47
61:N5:40:LEU:HA	61:N5:40:LEU:HD12	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:105:VAL:HA	61:N5:130:TYR:CE2	2.50	0.47
63:N7:23:VAL:HB	63:N7:43:VAL:HB	1.97	0.47
1:6:177:U:H1'	8:s6:191:ARG:NH1	2.30	0.47
1:6:486:G:H22	1:6:501:U:H3	1.63	0.47
1:6:609:U:C4	25:d3:26:GLU:HG3	2.50	0.47
1:6:826:U:O4	92:6:2162:OHX:N3	2.48	0.47
1:6:1489:U:H5'	1:6:1494:C:H1'	1.96	0.47
2:s0:124:THR:HG22	2:s0:174:TRP:HE1	1.80	0.47
20:c8:31:ALA:O	20:c8:34:THR:HG22	2.15	0.47
20:c8:56:LYS:HD2	20:c8:61:LEU:HD23	1.97	0.47
26:d4:3:ASP:HB2	26:d4:31:ASN:HB2	1.97	0.47
84:sM:129:UNK:O	84:sM:133:UNK:N	2.47	0.47
36:5:225:C:H2'	36:5:226:C:H6	1.80	0.47
36:5:312:C:H1'	36:5:2778:G:N2	2.30	0.47
36:5:914:A:C8	39:l2:199:THR:HG21	2.50	0.47
36:5:1080:A:O2'	36:5:1081:U:H5'	2.14	0.47
36:5:1178:G:H5'	69:o3:18:ARG:HD3	1.96	0.47
36:5:2555:G:O2'	70:o4:88:ARG:HG3	2.14	0.47
38:8:157:U:O2'	38:8:158:U:H5'	2.15	0.47
53:m7:4:TYR:CE1	53:m7:16:SER:HB2	2.50	0.47
56:n0:26:ARG:O	57:n1:150:THR:HA	2.15	0.47
57:n1:14:MET:HE1	57:n1:55:LYS:CB	2.40	0.47
64:n8:3:SER:O	64:n8:6:THR:HB	2.14	0.47
68:o2:16:LYS:HD3	68:o2:18:LYS:HE3	1.97	0.47
69:o3:8:TYR:CE2	69:o3:99:ARG:HG2	2.49	0.47
69:o3:48:ARG:HE	69:o3:48:ARG:HB3	1.52	0.47
1:2:143:G:H2'	1:2:144:U:H5"	1.96	0.47
1:2:194:U:O2'	1:2:195:G:O4'	2.32	0.47
1:2:589:C:H2'	1:2:590:C:H6	1.80	0.47
1:2:881:A:H2'	1:2:882:U:O4'	2.14	0.47
1:2:883:C:H2'	1:2:884:A:H8	1.80	0.47
1:2:1235:C:H2'	33:E1:138:ARG:NH2	2.30	0.47
8:S6:31:ARG:H	8:S6:34:GLN:NE2	2.13	0.47
11:S9:107:ARG:O	11:S9:147:MET:HA	2.15	0.47
33:E1:99:LYS:O	33:E1:100:LEU:HB2	2.15	0.47
34:SR:74:THR:HG23	34:SR:79:TYR:HB2	1.96	0.47
36:1:398:A:C4	53:M7:3:ARG:NH2	2.78	0.47
36:1:1608:C:H2'	36:1:1609:C:C6	2.50	0.47
36:1:2510:U:O2'	36:1:2511:A:H5"	2.15	0.47
36:1:2979:U:C2	92:1:4446:OHX:N1	2.82	0.47
38:4:10:A:H2'	38:4:11:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:104:LYS:HD2	41:L4:106:TRP:CZ2	2.50	0.47
62:N6:109:LEU:HD22	62:N6:115:ARG:NH1	2.30	0.47
1:6:66:U:C5	8:s6:173:PRO:HG3	2.48	0.47
1:6:567:A:C2	1:6:583:C:H1'	2.50	0.47
1:6:1614:A:O2'	1:6:1615:C:H5'	2.15	0.47
6:s4:72:VAL:HB	6:s4:77:ARG:HG3	1.97	0.47
7:s5:167:ARG:HH21	30:d8:55:VAL:HG21	1.80	0.47
15:c3:64:ARG:HG3	15:c3:70:LYS:HD2	1.97	0.47
15:c3:93:LYS:HA	15:c3:150:VAL:HG21	1.97	0.47
21:c9:6:VAL:HG13	21:c9:66:TYR:CZ	2.50	0.47
27:d5:46:LYS:HB2	27:d5:46:LYS:HE3	1.71	0.47
27:d5:66:VAL:HA	27:d5:71:ILE:HG22	1.96	0.47
33:e1:82:LYS:O	33:e1:84:VAL:N	2.47	0.47
83:sR:220:ILE:HB	83:sR:234:LEU:HB2	1.96	0.47
36:5:95:A:H5"	64:n8:34:MET:HB2	1.95	0.47
36:5:1239:C:N4	36:5:1249:G:H1	2.04	0.47
36:5:2181:C:H5"	39:l2:193:ARG:NH2	2.30	0.47
36:5:2416:U:O4	92:5:4442:OHX:N5	2.48	0.47
36:5:2724:U:H4'	57:n1:54:HIS:CD2	2.49	0.47
92:5:4458:OHX:N3	90:a:76:PPU:OC	2.48	0.47
38:8:42:G:OP1	73:o7:60:GLY:N	2.48	0.47
40:l3:44:THR:HA	40:l3:340:LYS:HD3	1.96	0.47
51:m5:68:ARG:HA	51:m5:98:LEU:HD21	1.96	0.47
51:m5:94:TYR:CE2	51:m5:96:ARG:HB2	2.49	0.47
52:m6:28:LEU:HD21	52:m6:88:VAL:HG13	1.97	0.47
87:n4:82:ILE:O	87:n4:82:ILE:HG22	2.15	0.47
65:n9:14:ARG:HH12	65:n9:18:ARG:HD3	1.78	0.47
1:2:602:U:H2'	1:2:603:U:C6	2.50	0.47
1:2:1687:U:H1'	1:2:1715:G:N2	2.30	0.47
2:S0:13:ASP:HA	2:S0:16:LEU:HD12	1.96	0.47
5:S3:108:LYS:HG2	5:S3:113:LEU:HD12	1.96	0.47
6:S4:15:PRO:HG2	6:S4:18:TRP:CE2	2.50	0.47
9:S7:60:ILE:HD12	9:S7:92:PHE:CZ	2.50	0.47
14:C2:86:VAL:HG13	14:C2:86:VAL:O	2.15	0.47
28:D6:36:ILE:HG21	28:D6:78:ALA:HB2	1.97	0.47
36:1:290:G:OP1	51:M5:98:LEU:HD22	2.14	0.47
36:1:1081:U:P	92:1:4435:OHX:N6	2.88	0.47
36:1:2340:U:OP1	40:L3:236:LYS:HE3	2.15	0.47
36:1:3017:A:C2	36:1:3038:U:C2	3.03	0.47
36:1:3276:G:H1	69:O3:60:ARG:NH1	2.13	0.47
40:L3:41:VAL:HG22	40:L3:194:TRP:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:56:ILE:HG12	40:L3:323:MET:HE1	1.96	0.47
40:L3:308:MET:HB2	40:L3:363:SER:HB2	1.96	0.47
41:L4:203:ARG:NH2	41:L4:240:PRO:HB3	2.30	0.47
42:L5:236:LEU:HD12	42:L5:239:ILE:HD12	1.96	0.47
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	1.97	0.47
1:6:459:G:OP1	26:d4:109:LYS:NZ	2.31	0.47
1:6:952:A:H5'	15:c3:98:VAL:HG22	1.97	0.47
4:s2:67:GLN:O	4:s2:71:THR:HG23	2.15	0.47
4:s2:176:SER:HB2	4:s2:195:ASP:HB3	1.97	0.47
4:s2:188:LEU:HA	4:s2:191:ALA:HB3	1.97	0.47
18:c6:27:GLY:HA2	18:c6:60:PHE:O	2.15	0.47
19:c7:109:LEU:O	19:c7:113:LEU:HB2	2.15	0.47
22:d0:72:ASN:HD22	22:d0:73:GLY:H	1.63	0.47
36:5:284:A:H4'	36:5:285:A:C2	2.50	0.47
36:5:990:U:C1'	57:n1:101:CYS:HB3	2.45	0.47
36:5:1355:A:H1'	36:5:1356:U:OP2	2.15	0.47
36:5:3287:U:N3	36:5:3288:G:N7	2.63	0.47
36:5:3317:U:H6	92:5:4397:OHX:N6	2.13	0.47
37:7:27:A:H2'	37:7:28:C:C6	2.50	0.47
38:8:10:A:H2'	38:8:11:C:C6	2.50	0.47
41:l4:141:ARG:C	41:l4:143:GLU:H	2.23	0.47
41:l4:354:VAL:O	41:l4:358:THR:HG23	2.14	0.47
47:m0:50:VAL:HG13	47:m0:167:LEU:HD13	1.96	0.47
51:m5:143:ARG:NH2	71:o5:92:LEU:HD23	2.29	0.47
55:m9:39:ASN:HA	55:m9:42:ARG:HH11	1.79	0.47
56:n0:13:ARG:NH2	56:n0:50:LYS:O	2.48	0.47
57:n1:45:ASN:OD1	57:n1:47:SER:OG	2.33	0.47
63:n7:97:SER:O	63:n7:100:THR:OG1	2.32	0.47
71:o5:86:ARG:O	71:o5:90:ARG:NE	2.48	0.47
78:q2:10:THR:HA	78:q2:20:HIS:CD2	2.50	0.47
1:2:93:A:O2'	6:S4:4:GLY:HA3	2.14	0.46
1:2:472:U:H5"	11:S9:11:THR:HG23	1.98	0.46
1:2:758:U:H5"	1:2:759:U:OP2	2.16	0.46
1:2:858:G:O3'	9:S7:113:PRO:HB3	2.15	0.46
1:2:1739:C:H2'	1:2:1740:A:C8	2.51	0.46
2:S0:66:ALA:HB2	23:D1:37:ALA:HB2	1.95	0.46
3:S1:109:LYS:O	3:S1:113:MET:HG3	2.15	0.46
6:S4:22:LYS:HB3	6:S4:23:LEU:HD22	1.96	0.46
8:S6:114:VAL:HG12	8:S6:115:LYS:HD3	1.97	0.46
11:S9:146:PHE:O	11:S9:147:MET:HB2	2.15	0.46
12:C0:14:TYR:HE2	12:C0:21:VAL:HG22	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:25:ASP:HA	16:C4:54:GLU:O	2.15	0.46
17:C5:41:VAL:HG22	17:C5:84:ILE:HD12	1.97	0.46
23:D1:55:LEU:HD11	23:D1:69:LEU:HG	1.97	0.46
36:1:276:U:O2	51:M5:93:LYS:NZ	2.41	0.46
36:1:308:A:H1'	36:1:2222:A:N3	2.30	0.46
36:1:436:A:H2'	36:1:437:G:O4'	2.15	0.46
36:1:551:A:C4	36:1:552:G:C8	3.03	0.46
36:1:1582:C:O2'	36:1:1583:A:O5'	2.29	0.46
36:1:1629:U:O4	63:N7:111:LYS:HD2	2.15	0.46
36:1:1941:C:OP2	55:M9:74:ARG:HG2	2.15	0.46
36:1:2369:G:H2'	36:1:2370:G:C8	2.50	0.46
37:3:111:U:O2'	92:3:224:OHX:N1	2.48	0.46
42:L5:111:GLN:HA	42:L5:116:ASP:CG	2.40	0.46
42:L5:277:LEU:HD12	42:L5:277:LEU:HA	1.72	0.46
45:L8:246:MET:HE3	45:L8:246:MET:HB2	1.62	0.46
55:M9:101:VAL:HA	55:M9:104:ARG:NH1	2.30	0.46
56:N0:1:MET:HB3	56:N0:1:MET:HE2	1.52	0.46
61:N5:132:ALA:O	61:N5:135:ILE:HG22	2.14	0.46
1:6:524:U:H2'	1:6:526:A:OP2	2.14	0.46
1:6:647:G:H1	1:6:687:G:H1	1.64	0.46
1:6:696:C:OP1	9:s7:100:PRO:HG3	2.16	0.46
1:6:1194:A:OP2	22:d0:75:GLY:N	2.48	0.46
1:6:1619:C:C2	30:d8:22:ARG:HD2	2.50	0.46
82:c5:127:ARG:HG3	82:c5:130:ARG:HG2	1.97	0.46
36:5:810:A:H2'	36:5:811:U:C6	2.50	0.46
36:5:860:G:O5'	39:l2:181:LYS:NZ	2.48	0.46
36:5:1356:U:H5"	36:5:1357:G:H8	1.80	0.46
36:5:1414:G:O6	92:5:4407:OHX:N1	2.49	0.46
36:5:1566:A:H2'	36:5:1567:U:H5'	1.96	0.46
36:5:1615:C:H2'	36:5:1616:U:H6	1.77	0.46
36:5:1699:A:H2'	36:5:1700:G:C8	2.51	0.46
39:l2:143:GLU:O	39:l2:145:LYS:N	2.48	0.46
47:m0:16:PRO:HG3	47:m0:128:ARG:NH1	2.29	0.46
63:n7:87:LEU:HD13	63:n7:127:ASN:CG	2.40	0.46
1:2:325:G:H4'	13:C1:83:THR:HG21	1.97	0.46
1:2:788:A:C4	6:S4:19:LEU:HD13	2.50	0.46
1:2:1015:U:H5"	1:2:1016:C:OP2	2.15	0.46
2:S0:202:TYR:O	2:S0:203:PHE:CG	2.69	0.46
3:S1:61:LEU:O	3:S1:63:GLY:N	2.48	0.46
12:C0:6:GLU:O	12:C0:10:LYS:HG3	2.15	0.46
13:C1:80:MET:HB3	13:C1:83:THR:HG23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:94:GLN:HB2	18:C6:102:LYS:HD2	1.97	0.46
26:D4:106:GLN:HA	26:D4:109:LYS:HD2	1.97	0.46
34:SR:112:SER:HB2	34:SR:153:GLN:HA	1.97	0.46
36:1:784:A:H8	54:M8:69:ARG:HG3	1.79	0.46
36:1:801:A:H4'	36:1:802:C:O5'	2.15	0.46
36:1:873:C:H5"	36:1:874:U:O5'	2.16	0.46
36:1:1307:G:H1'	36:1:1308:A:C8	2.51	0.46
36:1:1478:C:H2'	36:1:1479:U:C6	2.51	0.46
36:1:2187:G:OP2	92:1:4236:OHX:N5	2.48	0.46
36:1:2550:U:C5	45:L8:36:ILE:HG22	2.51	0.46
36:1:2746:A:H2'	36:1:2747:A:O4'	2.15	0.46
36:1:2952:G:N3	90:A:76:PPU:H2	2.29	0.46
36:1:3275:U:O4'	69:O3:66:VAL:HG21	2.15	0.46
44:L7:33:ARG:O	44:L7:36:ALA:N	2.48	0.46
44:L7:92:ILE:HD11	54:M8:4:ASP:HB2	1.96	0.46
56:N0:1:MET:SD	56:N0:36:ILE:HG21	2.55	0.46
61:N5:132:ALA:O	61:N5:136:ALA:N	2.47	0.46
68:O2:19:ARG:HE	68:O2:33:ARG:HB2	1.80	0.46
75:O9:30:ARG:HE	75:O9:30:ARG:HB2	1.52	0.46
1:6:1159:C:H5"	1:6:1160:A:H5'	1.96	0.46
1:6:1568:C:OP2	20:c8:36:LYS:NZ	2.48	0.46
2:s0:54:TRP:O	2:s0:58:VAL:HG23	2.14	0.46
2:s0:59:LEU:O	2:s0:63:ILE:HG13	2.15	0.46
6:s4:62:LYS:HE3	6:s4:66:MET:HE3	1.97	0.46
6:s4:105:VAL:HG21	6:s4:245:LYS:H	1.81	0.46
6:s4:140:VAL:HA	6:s4:145:ARG:O	2.16	0.46
8:s6:49:VAL:HB	8:s6:115:LYS:HG2	1.98	0.46
11:s9:168:ARG:HH21	11:s9:174:ARG:NH1	2.13	0.46
13:c1:77:SER:HB3	13:c1:85:VAL:HB	1.98	0.46
23:d1:9:VAL:O	23:d1:10:GLU:HB3	2.14	0.46
36:5:229:G:C6	36:5:230:U:C4	3.03	0.46
36:5:347:G:N7	73:o7:55:ARG:NH2	2.64	0.46
36:5:784:A:N7	54:m8:69:ARG:HG3	2.30	0.46
36:5:810:A:H2'	36:5:811:U:H6	1.80	0.46
36:5:1831:U:O2'	38:8:114:G:OP1	2.26	0.46
36:5:2965:U:O2	39:l2:221:LYS:NZ	2.47	0.46
36:5:3046:A:H2'	36:5:3047:U:O4'	2.16	0.46
36:5:3242:G:H5"	36:5:3245:A:C8	2.50	0.46
36:5:3253:G:N7	92:5:4352:OHX:N2	2.64	0.46
37:7:60:G:OP2	92:7:239:OHX:N6	2.47	0.46
43:l6:43:LEU:HD11	43:l6:85:ILE:HG13	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:n7:108:GLU:O	63:n7:112:LYS:HG3	2.15	0.46
66:o0:101:LEU:HD22	66:o0:101:LEU:H	1.80	0.46
72:o6:4:LYS:HE2	72:o6:14:GLY:HA3	1.97	0.46
1:2:856:A:N7	9:S7:97:ARG:HB2	2.31	0.46
1:2:918:U:H2'	1:2:919:A:H8	1.81	0.46
1:2:959:U:H5'	15:C3:15:ALA:O	2.16	0.46
2:S0:188:LEU:HB3	2:S0:189:VAL:H	1.58	0.46
3:S1:103:MET:HB3	3:S1:215:VAL:HG13	1.97	0.46
7:S5:25:LEU:HB2	18:C6:27:GLY:HA3	1.97	0.46
7:S5:87:CYS:SG	7:S5:92:ARG:HG3	2.55	0.46
14:C2:62:LEU:HD22	14:C2:75:VAL:HG11	1.97	0.46
24:D2:10:ALA:CB	24:D2:27:ILE:HD12	2.45	0.46
35:SM:102:THR:HG22	35:SM:105:LYS:HZ3	1.81	0.46
36:1:282:G:C8	36:1:282:G:H3'	2.50	0.46
36:1:953:G:C8	36:1:1117:G:C8	3.03	0.46
36:1:1230:G:O6	36:1:1231:A:N6	2.49	0.46
36:1:1488:G:O2'	70:O4:10:ARG:O	2.32	0.46
36:1:1758:G:H1	36:1:1767:C:H42	1.62	0.46
36:1:2616:C:C2'	36:1:2617:U:H5'	2.46	0.46
36:1:2759:U:H6	36:1:2759:U:O5'	1.97	0.46
36:1:3278:C:H2'	36:1:3278:C:O2	2.14	0.46
38:4:83:C:H1'	38:4:85:G:N2	2.30	0.46
39:L2:48:ILE:HA	39:L2:59:ALA:HA	1.98	0.46
40:L3:53:MET:HE2	40:L3:77:THR:CG2	2.45	0.46
44:L7:93:ASN:OD1	44:L7:93:ASN:N	2.48	0.46
44:L7:120:THR:HB	57:N1:132:PRO:HB2	1.96	0.46
46:L9:70:THR:O	46:L9:74:LEU:HG	2.14	0.46
47:M0:93:PRO:O	47:M0:125:LEU:HD22	2.16	0.46
49:M3:46:ILE:HD12	49:M3:49:ARG:NH1	2.29	0.46
49:M3:87:ALA:O	49:M3:91:ARG:HG3	2.15	0.46
51:M5:122:ASN:OD1	51:M5:123:GLN:N	2.48	0.46
55:M9:105:LEU:HD22	55:M9:138:LEU:HD13	1.98	0.46
56:N0:92:LYS:NZ	56:N0:109:ASP:OD2	2.42	0.46
56:N0:166:LYS:HB3	56:N0:167:ARG:H	1.37	0.46
69:O3:90:PRO:C	69:O3:92:LYS:H	2.21	0.46
69:O3:106:ASN:HD22	69:O3:106:ASN:C	2.20	0.46
1:6:1244:A:N3	1:6:1244:A:H3'	2.29	0.46
3:s1:55:LYS:HD3	3:s1:55:LYS:HA	1.73	0.46
4:s2:139:ILE:CD1	4:s2:191:ALA:HB1	2.44	0.46
7:s5:225:ARG:NH2	30:d8:58:GLU:HB2	2.30	0.46
10:s8:36:THR:HA	10:s8:58:LEU:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d2:5:SER:HB3	24:d2:8:ALA:HB3	1.97	0.46
36:5:304:G:N3	36:5:304:G:H5'	2.31	0.46
36:5:1176:C:H2'	36:5:1177:G:N2	2.30	0.46
36:5:1307:G:H5"	52:m6:60:LYS:CE	2.45	0.46
36:5:2812:C:H2'	36:5:2813:A:C8	2.50	0.46
36:5:3218:A:H5"	36:5:3219:G:N7	2.29	0.46
37:7:57:G:C8	37:7:58:C:C5	3.03	0.46
38:8:1:A:C2	38:8:2:A:C4	3.04	0.46
46:l9:37:ASN:OD1	46:l9:39:LYS:HB2	2.15	0.46
54:m8:176:ARG:HA	54:m8:182:LYS:HB3	1.98	0.46
66:o0:66:LYS:H	66:o0:66:LYS:HD2	1.81	0.46
76:q0:78:ILE:HD11	76:q0:83:LYS:HA	1.98	0.46
88:p0:44:GLU:OE1	88:p0:99:VAL:HG13	2.15	0.46
1:2:197:A:H61	10:S8:138:ASN:HD22	1.63	0.46
1:2:380:U:C6	11:S9:5:PRO:HG3	2.50	0.46
1:2:611:U:OP2	25:D3:5:LYS:HE2	2.15	0.46
1:2:1252:C:O4'	33:E1:133:ALA:HB2	2.16	0.46
9:S7:173:TYR:CE1	9:S7:179:LYS:HB2	2.50	0.46
11:S9:38:ASN:HB2	11:S9:41:GLU:HG3	1.96	0.46
19:C7:21:TYR:CD2	19:C7:58:MET:HE1	2.50	0.46
21:C9:13:ASP:OD2	21:C9:13:ASP:N	2.48	0.46
21:C9:34:VAL:HG23	21:C9:53:TRP:CZ2	2.50	0.46
29:D7:36:LYS:HG2	29:D7:43:ILE:HG22	1.97	0.46
34:SR:160:GLU:O	34:SR:162:ALA:N	2.42	0.46
36:1:603:A:H2'	36:1:604:G:O4'	2.14	0.46
36:1:1386:A:N7	41:L4:183:LYS:HE3	2.30	0.46
36:1:2541:U:H1'	36:1:2542:U:OP2	2.16	0.46
36:1:3006:A:C2	36:1:3141:A:C4	3.04	0.46
40:L3:232:ARG:HG2	40:L3:233:TRP:CD1	2.50	0.46
42:L5:49:TYR:CD1	42:L5:66:SER:HB3	2.51	0.46
49:M3:55:ARG:HG3	49:M3:72:GLY:O	2.15	0.46
50:M4:93:LYS:HE3	50:M4:93:LYS:HB2	1.79	0.46
55:M9:81:ARG:HG2	55:M9:88:ARG:CZ	2.45	0.46
59:N3:86:ARG:HD2	59:N3:92:PHE:CZ	2.50	0.46
68:O2:71:HIS:CE1	68:O2:118:LYS:HD3	2.50	0.46
1:6:196:G:N3	1:6:197:A:H1'	2.30	0.46
1:6:1316:G:OP1	19:c7:7:LYS:N	2.47	0.46
11:s9:81:VAL:O	11:s9:150:LEU:HD22	2.15	0.46
11:s9:88:GLU:O	11:s9:91:LYS:HD2	2.16	0.46
16:c4:25:ASP:OD1	16:c4:26:THR:N	2.42	0.46
31:d9:8:PHE:O	31:d9:9:SER:OG	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
84:sM:59:ALA:O	84:sM:63:ASP:N	2.45	0.46
36:5:293:C:H2'	36:5:294:U:O4'	2.15	0.46
36:5:1069:C:H2'	36:5:1070:U:H6	1.79	0.46
36:5:1443:G:O6	92:5:4267:OHX:N5	2.48	0.46
36:5:1534:A:OP1	92:5:4180:OHX:N1	2.48	0.46
36:5:3002:C:O2'	40:l3:180:GLU:OE2	2.30	0.46
36:5:3006:A:H2'	36:5:3007:U:O4'	2.16	0.46
36:5:3288:G:O2'	36:5:3289:G:H8	1.84	0.46
92:8:231:OHX:N4	73:o7:88:ALA:O	2.48	0.46
44:l7:53:LYS:O	44:l7:57:THR:HG23	2.16	0.46
46:l9:137:SER:HB2	46:l9:143:GLU:CB	2.41	0.46
49:m3:89:TYR:CE1	49:m3:93:ILE:HD11	2.50	0.46
51:m5:73:ARG:HB3	51:m5:89:VAL:HG13	1.97	0.46
52:m6:64:PHE:HE1	52:m6:68:ARG:HH11	1.63	0.46
59:n3:54:LEU:HG	59:n3:122:CYS:HB2	1.97	0.46
62:n6:37:LYS:HA	62:n6:40:ARG:HB3	1.97	0.46
1:2:544:A:H5"	1:2:545:A:OP2	2.16	0.46
1:2:894:U:H2'	1:2:895:G:C8	2.50	0.46
7:S5:123:VAL:HG21	27:D5:100:ILE:HD12	1.97	0.46
8:S6:26:VAL:HG21	8:S6:40:ALA:HB1	1.98	0.46
8:S6:30:LYS:O	8:S6:102:VAL:HG23	2.16	0.46
30:D8:32:PHE:CE2	30:D8:38:ARG:HB3	2.51	0.46
36:1:72:C:H5'	49:M3:63:VAL:HG22	1.96	0.46
36:1:2108:C:H1'	36:1:3344:A:H8	1.80	0.46
36:1:2124:G:C2	36:1:2330:C:C2	3.03	0.46
36:1:2580:A:O2'	92:1:4397:OHX:N2	2.48	0.46
36:1:2898:G:H5"	36:1:2899:C:C5'	2.45	0.46
36:1:3295:A:H2'	36:1:3296:A:C8	2.50	0.46
40:L3:19:ARG:HB3	40:L3:232:ARG:HH12	1.81	0.46
46:L9:47:LYS:NZ	50:M4:5:SER:HB2	2.30	0.46
47:M0:66:GLU:OE1	47:M0:69:ARG:NH2	2.49	0.46
47:M0:213:PHE:N	47:M0:214:PRO:HD3	2.31	0.46
48:M1:145:LYS:HE2	48:M1:145:LYS:HB2	1.60	0.46
53:M7:30:ARG:C	53:M7:30:ARG:HD3	2.40	0.46
61:N5:106:ASP:O	61:N5:127:THR:HG23	2.15	0.46
1:6:27:U:H2'	1:6:28:A:H8	1.81	0.46
1:6:1213:G:O6	92:6:2169:OHX:N6	2.49	0.46
1:6:1529:C:OP1	7:s5:112:ARG:HD3	2.15	0.46
1:6:1643:U:C5	1:6:1644:C:C5	3.04	0.46
9:s7:155:ASP:CG	9:s7:156:SER:H	2.23	0.46
80:c0:34:GLU:O	80:c0:35:ILE:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:d1:53:TYR:OH	23:d1:72:LEU:O	2.27	0.46
29:d7:36:LYS:O	29:d7:77:THR:HG22	2.16	0.46
29:d7:46:VAL:HG13	29:d7:54:VAL:HG21	1.98	0.46
36:5:326:U:O5'	36:5:326:U:H6	1.98	0.46
36:5:365:A:H1'	41:l4:82:THR:OG1	2.16	0.46
36:5:1479:U:C3'	36:5:1480:G:H5'	2.46	0.46
36:5:2157:G:N2	36:5:2177:G:O2'	2.49	0.46
36:5:2523:A:O2'	36:5:2587:U:H1'	2.16	0.46
36:5:3279:A:C6	36:5:3280:U:C4	3.04	0.46
36:5:3393:U:H2'	36:5:3394:U:H6	1.80	0.46
37:7:59:U:OP2	92:7:230:OHX:N6	2.49	0.46
38:8:68:G:C6	38:8:69:U:C4	3.04	0.46
42:l5:178:ASN:HA	42:l5:183:TRP:CG	2.50	0.46
64:n8:73:LEU:HB2	64:n8:109:TYR:CD2	2.50	0.46
71:o5:89:ARG:HG2	71:o5:89:ARG:HH11	1.80	0.46
88:p0:45:LEU:HD22	88:p0:49:ALA:HB3	1.97	0.46
1:2:679:U:H5	92:2:2251:OHX:N1	2.14	0.46
1:2:1446:A:P	92:2:2255:OHX:N2	2.88	0.46
1:2:1509:C:H2'	1:2:1510:U:O4'	2.15	0.46
3:S1:35:PRO:HG3	3:S1:98:THR:O	2.15	0.46
5:S3:148:LYS:HB2	35:SM:110:TRP:CZ2	2.50	0.46
19:C7:106:THR:O	19:C7:110:VAL:HG23	2.15	0.46
25:D3:69:ARG:HH11	25:D3:116:ASP:CG	2.24	0.46
36:1:674:G:O6	54:M8:56:LYS:NZ	2.48	0.46
36:1:1587:A:OP1	92:1:4176:OHX:N6	2.48	0.46
36:1:1631:C:H5"	36:1:1632:A:H5"	1.96	0.46
36:1:1643:A:H3'	36:1:1644:C:C6	2.51	0.46
36:1:2357:A:H2'	36:1:2358:A:C8	2.51	0.46
36:1:2554:A:H62	79:Q3:62:LYS:NZ	2.13	0.46
36:1:2653:C:OP1	78:Q2:89:LYS:HB2	2.16	0.46
37:3:28:C:H5"	48:M1:137:ARG:HG2	1.96	0.46
41:L4:361:HIS:CG	41:L4:362:ASP:H	2.33	0.46
48:M1:11:ASP:HB3	48:M1:12:LEU:H	1.63	0.46
51:M5:199:LEU:HB3	51:M5:203:ARG:NE	2.30	0.46
70:O4:25:THR:OG1	70:O4:29:ILE:HD13	2.16	0.46
1:6:329:G:H2'	1:6:330:G:H8	1.80	0.46
1:6:542:A:OP1	1:6:542:A:H2'	2.15	0.46
1:6:853:G:H2'	1:6:854:U:H6	1.80	0.46
1:6:898:A:N1	1:6:911:U:O2'	2.44	0.46
1:6:1203:A:OP2	92:6:2225:OHX:N4	2.48	0.46
1:6:1382:A:H5"	22:d0:60:THR:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:148:ARG:H	6:s4:148:ARG:HG2	1.51	0.46
7:s5:183:ALA:HB2	7:s5:193:THR:OG1	2.16	0.46
80:c0:46:LEU:O	80:c0:50:THR:HG23	2.15	0.46
16:c4:13:VAL:HG23	16:c4:77:THR:H	1.80	0.46
18:c6:99:GLU:HG2	83:sR:57:PRO:HB2	1.98	0.46
19:c7:14:LYS:HG3	19:c7:69:ILE:HG23	1.96	0.46
19:c7:103:ASP:O	19:c7:104:ASN:HB3	2.15	0.46
32:e0:23:LYS:HB3	32:e0:23:LYS:HE2	1.61	0.46
36:5:320:G:N7	92:5:4551:OHX:N4	2.63	0.46
36:5:761:A:C2	36:5:771:A:H1'	2.51	0.46
36:5:1387:G:OP1	92:5:4482:OHX:N3	2.49	0.46
36:5:2250:G:N7	92:5:4204:OHX:N3	2.64	0.46
36:5:2651:G:C4	36:5:2796:G:C2	3.04	0.46
36:5:3065:G:H2'	36:5:3066:U:O4'	2.15	0.46
36:5:3223:A:C5	36:5:3263:G:C6	3.03	0.46
38:8:65:A:H2'	38:8:66:A:O4'	2.15	0.46
39:l2:180:LEU:HD23	39:l2:180:LEU:HA	1.61	0.46
40:l3:37:ARG:CA	40:l3:186:GLY:HA2	2.46	0.46
40:l3:162:VAL:O	40:l3:178:LEU:HD12	2.16	0.46
46:l9:172:ILE:HD12	76:q0:90:ASN:HB3	1.96	0.46
50:m4:99:TRP:O	50:m4:103:ILE:HG13	2.16	0.46
53:m7:27:LYS:HA	53:m7:63:PHE:CD2	2.50	0.46
59:n3:67:PRO:C	59:n3:69:LEU:H	2.24	0.46
62:n6:55:GLU:HB2	62:n6:108:LYS:HB2	1.97	0.46
68:o2:4:LEU:HD12	68:o2:4:LEU:HA	1.67	0.46
68:o2:30:GLU:O	68:o2:31:ASN:C	2.59	0.46
88:p0:19:LEU:HD22	88:p0:73:PHE:CE1	2.50	0.46
1:2:329:G:H2'	1:2:330:G:C8	2.51	0.46
1:2:498:G:C4	1:2:499:U:N3	2.84	0.46
1:2:1191:U:H5'	18:C6:143:ARG:CZ	2.46	0.46
8:S6:193:LEU:HD23	8:S6:193:LEU:HA	1.71	0.46
9:S7:131:PHE:C	9:S7:133:THR:H	2.24	0.46
12:C0:30:ALA:O	12:C0:38:LYS:HA	2.16	0.46
19:C7:15:ALA:O	19:C7:19:ARG:HG2	2.15	0.46
24:D2:86:ILE:HD12	24:D2:87:GLU:N	2.31	0.46
35:SM:39:PRO:HB2	35:SM:40:PRO:HD2	1.97	0.46
36:1:277:G:OP1	92:1:4111:OHX:N3	2.49	0.46
36:1:784:A:C6	54:M8:93:ILE:HG22	2.50	0.46
36:1:1569:U:H5"	36:1:1570:U:C6	2.50	0.46
37:3:4:U:H2'	37:3:5:G:C8	2.50	0.46
37:3:50:U:C2'	37:3:51:A:H5'	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:150:G:C8	92:4:238:OHX:N4	2.83	0.46
40:L3:114:VAL:HG22	40:L3:163:HIS:CE1	2.51	0.46
40:L3:255:TRP:CD1	40:L3:256:HIS:CE1	3.03	0.46
40:L3:339:ARG:NH1	40:L3:342:LEU:HD11	2.31	0.46
45:L8:112:GLU:O	45:L8:116:VAL:HB	2.16	0.46
51:M5:150:TRP:HZ3	51:M5:156:HIS:CD2	2.34	0.46
55:M9:68:GLN:HA	55:M9:71:ARG:HG3	1.98	0.46
65:N9:28:LYS:HD3	65:N9:29:TYR:H	1.80	0.46
65:N9:35:VAL:HG12	65:N9:40:ARG:HG3	1.98	0.46
73:O7:19:CYS:SG	73:O7:34:CYS:CB	2.97	0.46
1:6:478:A:O2'	11:s9:124:HIS:CD2	2.69	0.46
1:6:880:C:H2'	1:6:881:A:C8	2.50	0.46
1:6:1514:U:H5"	1:6:1515:A:N3	2.30	0.46
1:6:1584:G:H22	1:6:1611:A:P	2.36	0.46
82:c5:51:SER:C	82:c5:53:PRO:HD2	2.41	0.46
82:c5:86:VAL:HB	82:c5:87:PRO:HD2	1.98	0.46
19:c7:87:GLU:O	19:c7:88:VAL:HG12	2.16	0.46
36:5:1329:U:O2'	36:5:1330:A:H5"	2.16	0.46
36:5:2137:U:C6	36:5:2141:U:C4	3.04	0.46
36:5:2294:U:O2	36:5:2296:A:C8	2.69	0.46
36:5:2313:A:H4'	36:5:2314:U:H5'	1.97	0.46
36:5:2356:A:OP1	53:m7:138:LYS:NZ	2.48	0.46
36:5:2398:A:C2'	36:5:2399:A:H5'	2.46	0.46
36:5:3337:G:H2'	36:5:3338:C:O4'	2.15	0.46
38:8:134:G:OP1	61:n5:56:ARG:HG2	2.15	0.46
39:l2:238:ILE:HG22	39:l2:239:ALA:H	1.78	0.46
40:l3:148:LEU:HD21	40:l3:196:ARG:HD3	1.97	0.46
41:l4:330:TYR:CZ	44:l7:49:ALA:HA	2.49	0.46
46:l9:118:LEU:HD23	46:l9:118:LEU:HA	1.77	0.46
50:m4:14:LEU:HD23	50:m4:14:LEU:HA	1.75	0.46
50:m4:27:GLN:H	50:m4:27:GLN:HG2	1.42	0.46
54:m8:177:GLY:O	54:m8:186:VAL:N	2.43	0.46
55:m9:173:ARG:HH21	55:m9:177:VAL:HG21	1.81	0.46
74:o8:11:PHE:O	74:o8:15:THR:HG23	2.16	0.46
1:2:68:A:O2'	1:2:69:G:OP2	2.26	0.46
1:2:445:A:H61	1:2:462:G:H1'	1.81	0.46
1:2:567:A:H4'	32:E0:10:ARG:O	2.15	0.46
1:2:758:U:OP1	11:S9:7:THR:HG21	2.15	0.46
1:2:1172:G:C6	1:2:1173:C:C4	3.04	0.46
1:2:1746:A:H2'	1:2:1747:G:O4'	2.16	0.46
19:C7:23:LYS:HB3	19:C7:34:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:SM:79:SER:HA	35:SM:82:THR:HG23	1.98	0.46
36:1:1073:U:H2'	36:1:1074:U:C6	2.50	0.46
36:1:1382:G:P	41:L4:188:ARG:HH12	2.39	0.46
36:1:1483:G:C8	36:1:1485:G:C8	3.03	0.46
36:1:2217:U:H2'	36:1:2218:G:H8	1.81	0.46
36:1:3257:C:H2'	36:1:3258:U:O4'	2.15	0.46
36:1:3392:U:H2'	36:1:3393:U:C6	2.51	0.46
38:4:11:C:H2'	38:4:12:A:H8	1.80	0.46
39:L2:117:GLU:CD	39:L2:121:GLY:H	2.23	0.46
41:L4:323:VAL:HG13	41:L4:326:ARG:NH2	2.31	0.46
44:L7:26:VAL:HG13	44:L7:27:ALA:N	2.31	0.46
63:N7:4:PHE:CZ	66:O0:35:ARG:HA	2.50	0.46
1:6:169:A:C5'	8:s6:176:GLN:HG2	2.45	0.46
1:6:198:A:H2'	1:6:199:G:H5'	1.97	0.46
1:6:219:A:N6	1:6:843:U:C2	2.83	0.46
1:6:385:A:H2'	1:6:386:G:C8	2.51	0.46
1:6:488:G:H21	1:6:499:U:H3	1.60	0.46
1:6:679:U:O4	92:6:2274:OHX:N2	2.49	0.46
1:6:1785:U:OP1	16:c4:136:ARG:NH1	2.48	0.46
4:s2:169:LEU:HD23	4:s2:198:THR:HG22	1.97	0.46
6:s4:9:LEU:HD12	6:s4:30:ARG:HA	1.98	0.46
7:s5:121:ILE:HG13	7:s5:195:ALA:HB1	1.97	0.46
8:s6:67:VAL:CG2	8:s6:99:GLY:HA2	2.45	0.46
10:s8:110:ARG:HH22	10:s8:160:PHE:HB3	1.80	0.46
11:s9:149:ARG:HG3	11:s9:149:ARG:NH1	2.29	0.46
18:c6:60:PHE:CE2	18:c6:89:LEU:HD22	2.51	0.46
24:d2:7:LEU:HD22	24:d2:11:LEU:HG	1.98	0.46
27:d5:74:SER:HA	27:d5:77:ARG:NH2	2.31	0.46
36:5:240:U:O2'	36:5:241:G:O5'	2.30	0.46
36:5:1074:U:O3'	36:5:1075:A:H8	1.98	0.46
36:5:2511:A:H3'	36:5:2512:C:H5"	1.98	0.46
36:5:2725:U:O4	92:5:4215:OHX:N1	2.49	0.46
39:l2:201:GLY:O	39:l2:204:MET:HB2	2.16	0.46
40:l3:346:THR:O	40:l3:348:ARG:N	2.49	0.46
41:l4:42:VAL:HA	41:l4:45:ASN:ND2	2.30	0.46
49:m3:59:ARG:HE	49:m3:69:VAL:HG23	1.79	0.46
51:m5:10:LEU:HD23	51:m5:10:LEU:HA	1.78	0.46
54:m8:53:PHE:CD1	54:m8:53:PHE:N	2.83	0.46
55:m9:4:LEU:HA	55:m9:7:GLN:HE21	1.80	0.46
62:n6:103:LYS:HA	62:n6:103:LYS:HD3	1.59	0.46
67:o1:8:VAL:HG21	67:o1:77:ARG:HH21	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:o6:70:ARG:HH11	72:o6:84:LYS:HD3	1.81	0.46
73:o7:66:TYR:O	73:o7:68:LYS:N	2.48	0.46
1:2:47:A:N1	1:2:386:G:H1'	2.31	0.46
1:2:83:G:OP2	92:2:2113:OHX:N5	2.49	0.46
1:2:221:A:OP2	1:2:832:U:O2'	2.26	0.46
1:2:906:A:H2'	1:2:907:A:C8	2.51	0.46
3:S1:131:ASP:HB3	3:S1:180:THR:OG1	2.15	0.46
6:S4:163:ASP:OD1	6:S4:165:ALA:HB3	2.15	0.46
8:S6:28:PHE:CE1	8:S6:104:PRO:HG3	2.51	0.46
21:C9:28:LEU:O	21:C9:107:ALA:HB1	2.15	0.46
26:D4:124:ARG:O	26:D4:127:LYS:HG3	2.15	0.46
34:SR:242:SER:O	34:SR:292:LEU:HD21	2.16	0.46
36:1:592:A:H5'	43:L6:17:ALA:O	2.15	0.46
36:1:637:C:H6	36:1:637:C:H2'	1.47	0.46
36:1:879:U:O2	36:1:2357:A:H1'	2.15	0.46
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.16	0.46
36:1:1441:G:O6	92:1:4158:OHX:N1	2.49	0.46
36:1:2656:A:C4	36:1:2658:G:N7	2.84	0.46
36:1:2689:A:C8	36:1:2702:A:N6	2.84	0.46
36:1:3333:G:N2	36:1:3369:G:O2'	2.48	0.46
37:3:17:A:OP1	42:L5:2:ALA:N	2.49	0.46
41:L4:188:ARG:O	41:L4:193:LYS:HE3	2.16	0.46
41:L4:304:GLN:C	41:L4:306:THR:H	2.24	0.46
42:L5:244:HIS:O	42:L5:248:ARG:HG3	2.16	0.46
50:M4:102:LYS:HE3	50:M4:102:LYS:HB2	1.71	0.46
51:M5:74:PRO:O	51:M5:75:VAL:O	2.34	0.46
55:M9:178:ALA:HA	55:M9:181:ARG:HB3	1.97	0.46
64:N8:103:ASP:OD2	64:N8:106:ALA:N	2.43	0.46
1:6:531:C:C2'	1:6:532:U:H5'	2.46	0.46
1:6:649:U:H2'	1:6:650:U:C5	2.50	0.46
1:6:1565:C:H2'	1:6:1566:U:C6	2.51	0.46
1:6:1572:G:H2'	1:6:1572:G:N3	2.30	0.46
1:6:1642:G:N2	1:6:1781:A:N3	2.64	0.46
5:s3:8:LYS:HG2	22:d0:63:LEU:HD21	1.98	0.46
6:s4:132:GLY:N	6:s4:136:VAL:O	2.48	0.46
6:s4:148:ARG:HH21	6:s4:148:ARG:HB3	1.81	0.46
10:s8:152:ILE:H	10:s8:152:ILE:HD13	1.81	0.46
11:s9:176:ASN:HA	11:s9:179:ARG:HG2	1.97	0.46
82:c5:61:ARG:NH1	82:c5:61:ARG:HB3	2.31	0.46
18:c6:9:THR:HG21	18:c6:87:LYS:O	2.15	0.46
36:5:439:C:C4'	36:5:440:A:H5'	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:497:C:O3'	69:o3:86:ARG:NH2	2.47	0.46
36:5:945:C:H2'	36:5:946:U:C6	2.51	0.46
36:5:1162:U:H4'	68:o2:57:TYR:CD1	2.51	0.46
36:5:2136:C:O2'	36:5:2137:U:H5'	2.16	0.46
36:5:3348:G:N2	36:5:3358:U:H1'	2.31	0.46
37:7:89:G:N2	37:7:91:G:H3'	2.30	0.46
38:8:45:C:OP1	75:o9:12:LYS:HE3	2.15	0.46
41:l4:29:PRO:HG3	41:l4:279:HIS:CD2	2.50	0.46
49:m3:119:TYR:HD1	49:m3:145:PHE:CE2	2.34	0.46
53:m7:95:LEU:HD23	53:m7:95:LEU:HA	1.72	0.46
57:n1:129:LYS:H	57:n1:129:LYS:HG2	1.66	0.46
62:n6:42:GLN:O	62:n6:125:LYS:HG3	2.16	0.46
78:q2:59:HIS:O	78:q2:61:LYS:NZ	2.34	0.46
90:a:74:C:O2	92:a:101:OHX:N1	2.49	0.46
1:2:78:A:C8	8:S6:154:ARG:HG3	2.51	0.46
1:2:186:C:H3'	1:2:187:G:H8	1.81	0.46
1:2:327:U:O2'	13:C1:10:GLU:HG2	2.16	0.46
1:2:512:A:OP2	11:S9:172:VAL:HB	2.15	0.46
1:2:684:A:H2'	1:2:685:A:H5'	1.97	0.46
2:S0:124:THR:HG22	2:S0:174:TRP:HE1	1.81	0.46
3:S1:176:VAL:O	3:S1:178:GLY:N	2.49	0.46
4:S2:222:TYR:OH	23:D1:11:LEU:O	2.34	0.46
8:S6:23:ARG:O	8:S6:26:VAL:HG23	2.16	0.46
11:S9:75:ALA:O	11:S9:79:ARG:HB2	2.16	0.46
11:S9:117:GLY:C	11:S9:119:ALA:H	2.24	0.46
13:C1:75:VAL:HG22	13:C1:84:ILE:HD12	1.98	0.46
19:C7:3:ARG:O	19:C7:5:ARG:NH1	2.49	0.46
24:D2:104:LEU:HB3	24:D2:125:ILE:HA	1.98	0.46
31:D9:5:ASN:HB3	31:D9:7:TRP:NE1	2.30	0.46
36:1:139:G:H2'	36:1:140:C:O4'	2.16	0.46
36:1:645:A:N6	36:1:2869:U:OP1	2.48	0.46
36:1:820:A:OP1	92:1:4175:OHX:N5	2.49	0.46
36:1:824:C:H2'	36:1:825:U:C6	2.51	0.46
36:1:1740:U:C1'	36:1:1741:A:H2	2.27	0.46
36:1:1863:G:O6	92:1:4186:OHX:N4	2.49	0.46
36:1:1878:G:C3'	36:1:1879:A:H5'	2.46	0.46
36:1:2443:A:N6	36:1:2504:U:C4	2.81	0.46
36:1:3276:G:H1	69:O3:60:ARG:NH2	2.13	0.46
36:1:3324:C:C4	36:1:3325:G:N7	2.84	0.46
42:L5:40:HIS:HE1	42:L5:42:ALA:HB3	1.77	0.46
42:L5:114:GLY:C	42:L5:116:ASP:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:41:GLN:HG3	45:L8:44:ARG:HH12	1.79	0.46
46:L9:162:GLN:NE2	76:Q0:89:TYR:CE1	2.84	0.46
50:M4:17:VAL:HG21	50:M4:74:ARG:HB2	1.98	0.46
51:M5:149:ASN:OD1	92:M5:310:OHX:N2	2.49	0.46
53:M7:27:LYS:HD3	53:M7:63:PHE:HB3	1.97	0.46
54:M8:96:PHE:CD2	54:M8:97:PRO:HD2	2.51	0.46
61:N5:142:ILE:HD13	61:N5:142:ILE:HA	1.70	0.46
75:O9:21:ARG:CZ	75:O9:24:PRO:HG3	2.46	0.46
1:6:116:U:H2'	1:6:117:U:C6	2.51	0.46
1:6:990:C:H2'	1:6:991:G:O4'	2.15	0.46
1:6:1240:U:H5'	1:6:1241:G:OP2	2.16	0.46
1:6:1332:C:H4'	5:s3:203:PRO:CB	2.46	0.46
1:6:1363:U:H3'	1:6:1364:G:H8	1.81	0.46
3:s1:36:SER:HB3	3:s1:231:LEU:O	2.16	0.46
10:s8:44:HIS:O	10:s8:56:ARG:N	2.47	0.46
10:s8:84:HIS:CE1	10:s8:90:LEU:HD12	2.50	0.46
80:c0:45:ALA:O	80:c0:49:LEU:HD23	2.16	0.46
36:5:847:A:H2'	36:5:848:A:C8	2.51	0.46
36:5:1121:U:C4	36:5:1122:U:C4	3.03	0.46
36:5:2280:A:OP2	92:5:4423:OHX:N5	2.49	0.46
36:5:2926:A:H2'	36:5:2927:C:C6	2.51	0.46
49:m3:36:ARG:O	49:m3:39:ARG:N	2.49	0.46
55:m9:15:VAL:CG1	55:m9:52:LYS:HE3	2.46	0.46
66:o0:24:THR:HG22	66:o0:91:SER:HB3	1.98	0.46
1:2:400:A:H5"	10:S8:25:ARG:HA	1.96	0.45
1:2:420:A:H2'	1:2:421:A:O4'	2.16	0.45
1:2:475:A:OP2	11:S9:126:ARG:NH1	2.50	0.45
92:2:2144:OHX:N6	13:C1:18:HIS:O	2.48	0.45
92:2:2152:OHX:N2	92:2:2251:OHX:N4	2.64	0.45
3:S1:36:SER:O	3:S1:38:PHE:N	2.45	0.45
3:S1:70:LEU:CD1	3:S1:79:HIS:HB3	2.46	0.45
3:S1:88:VAL:HG11	3:S1:96:LEU:HD12	1.98	0.45
3:S1:206:PRO:O	3:S1:207:LEU:HB2	2.14	0.45
5:S3:142:LEU:HD13	5:S3:182:LEU:HD21	1.97	0.45
9:S7:44:LYS:NZ	9:S7:95:GLU:HG2	2.31	0.45
9:S7:139:ARG:HD3	24:D2:53:ILE:HA	1.97	0.45
17:C5:85:ILE:HG22	17:C5:112:LEU:HD23	1.98	0.45
30:D8:8:THR:OG1	30:D8:59:SER:OG	2.24	0.45
34:SR:176:LYS:HG2	34:SR:197:SER:O	2.15	0.45
36:1:289:A:H2'	36:1:290:G:H8	1.79	0.45
36:1:1014:U:C2'	36:1:1015:U:H5"	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1245:A:N6	36:1:1272:C:O2'	2.49	0.45
36:1:1618:G:H4'	38:4:129:C:H1'	1.99	0.45
36:1:1629:U:P	63:N7:112:LYS:HE2	2.56	0.45
36:1:2979:U:N3	92:1:4446:OHX:N1	2.63	0.45
37:3:57:G:C8	37:3:58:C:C5	3.04	0.45
38:4:52:A:N6	75:O9:27:ILE:HD13	2.27	0.45
41:L4:166:VAL:HG12	41:L4:170:LYS:HD2	1.97	0.45
45:L8:246:MET:HA	45:L8:249:ARG:HB3	1.97	0.45
51:M5:9:GLU:CD	72:O6:41:ARG:HG2	2.41	0.45
54:M8:123:THR:OG1	54:M8:125:ASP:OD2	2.33	0.45
55:M9:168:ALA:HB1	55:M9:172:ARG:CZ	2.46	0.45
56:N0:26:ARG:HD3	57:N1:150:THR:OG1	2.15	0.45
60:N4:38:SER:O	60:N4:42:GLN:HG3	2.16	0.45
64:N8:60:TYR:CD2	64:N8:63:LYS:HE3	2.52	0.45
69:O3:105:SER:OG	69:O3:106:ASN:N	2.49	0.45
70:O4:12:PRO:HD2	70:O4:13:TYR:CD2	2.51	0.45
1:6:310:C:OP1	25:d3:20:ARG:HD2	2.16	0.45
1:6:950:C:H2'	1:6:951:A:C8	2.51	0.45
1:6:1397:U:C4	1:6:1399:C:H1'	2.50	0.45
1:6:1459:C:H2'	20:c8:138:THR:O	2.16	0.45
4:s2:174:ARG:HA	4:s2:195:ASP:OD2	2.16	0.45
7:s5:65:ARG:HA	7:s5:65:ARG:HE	1.80	0.45
13:c1:78:THR:HA	13:c1:84:ILE:HG22	1.97	0.45
81:c2:85:LYS:HZ3	81:c2:87:PRO:HD3	1.81	0.45
16:c4:50:ALA:C	16:c4:52:ARG:N	2.71	0.45
36:5:96:G:OP2	64:n8:34:MET:HB2	2.15	0.45
36:5:253:A:HO2'	36:5:254:A:H8	1.64	0.45
36:5:672:A:OP1	54:m8:55:SER:HA	2.15	0.45
36:5:913:A:H2	36:5:2134:G:N3	2.15	0.45
36:5:944:C:H4'	68:o2:33:ARG:NH1	2.30	0.45
36:5:999:G:O2'	36:5:1000:C:H5'	2.15	0.45
36:5:2245:C:H4'	39:l2:221:LYS:O	2.16	0.45
36:5:2514:U:OP1	36:5:2514:U:C6	2.67	0.45
36:5:2522:G:C6	39:l2:70:ARG:NH2	2.84	0.45
37:7:5:G:O3'	42:l5:54:ARG:HG3	2.16	0.45
39:l2:227:ARG:HB2	39:l2:239:ALA:HB2	1.96	0.45
40:l3:49:TYR:O	40:l3:80:ASP:N	2.42	0.45
41:l4:181:VAL:HG11	41:l4:224:GLY:CA	2.46	0.45
41:l4:361:HIS:CG	41:l4:362:ASP:H	2.34	0.45
46:l9:93:VAL:O	46:l9:177:ASP:HA	2.16	0.45
47:m0:156:ARG:NH1	47:m0:163:GLN:O	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:m1:85:LYS:HA	48:m1:89:TYR:CE2	2.52	0.45
53:m7:39:TRP:O	53:m7:114:VAL:HG12	2.17	0.45
66:o0:8:GLU:OE2	66:o0:12:GLN:HG2	2.16	0.45
79:q3:28:LYS:O	79:q3:32:GLN:HG3	2.16	0.45
1:2:304:U:H2'	1:2:305:C:C6	2.50	0.45
1:2:1013:A:H2'	1:2:1014:G:O4'	2.16	0.45
1:2:1101:G:OP1	25:D3:7:ARG:NH2	2.49	0.45
1:2:1211:A:H1'	17:C5:99:GLY:O	2.16	0.45
1:2:1331:A:H2'	1:2:1332:C:H5'	1.99	0.45
1:2:1615:C:H4'	1:2:1616:G:O5'	2.16	0.45
2:S0:119:ARG:HB3	2:S0:119:ARG:HH11	1.81	0.45
3:S1:36:SER:HB2	3:S1:231:LEU:HB3	1.99	0.45
7:S5:69:PHE:CE2	18:C6:53:LEU:HD12	2.51	0.45
7:S5:112:ARG:HD3	27:D5:95:HIS:NE2	2.31	0.45
9:S7:63:PRO:O	9:S7:64:VAL:HB	2.16	0.45
14:C2:73:LYS:NZ	33:E1:108:VAL:HB	2.31	0.45
18:C6:98:ASP:OD2	18:C6:100:GLN:N	2.47	0.45
23:D1:15:ARG:HB3	23:D1:16:LYS:H	1.68	0.45
24:D2:36:LYS:HB2	24:D2:110:ILE:HD12	1.97	0.45
24:D2:37:PHE:CD1	24:D2:41:MET:HE2	2.51	0.45
27:D5:41:ILE:HG23	27:D5:42:LEU:N	2.31	0.45
36:1:68:C:H4'	51:M5:176:LYS:HB2	1.97	0.45
36:1:413:U:OP1	53:M7:30:ARG:NH2	2.45	0.45
36:1:494:G:OP1	36:1:494:G:H3'	2.16	0.45
36:1:1815:U:HO2'	36:1:1816:A:P	2.38	0.45
36:1:2254:U:H2'	36:1:2261:G:N2	2.30	0.45
36:1:2904:U:H2'	36:1:2905:U:C6	2.51	0.45
40:L3:86:VAL:HG22	40:L3:162:VAL:HG12	1.98	0.45
47:M0:80:SER:HB3	47:M0:147:VAL:HG11	1.98	0.45
55:M9:17:VAL:HG21	55:M9:52:LYS:HG2	1.97	0.45
59:N3:54:LEU:HD12	59:N3:122:CYS:HB2	1.99	0.45
66:O0:76:GLU:OE1	66:O0:76:GLU:N	2.44	0.45
69:O3:72:THR:HG23	69:O3:83:ALA:HA	1.98	0.45
1:6:154:G:H1	1:6:160:C:H42	1.64	0.45
1:6:532:U:H4'	26:d4:66:GLY:HA2	1.98	0.45
1:6:780:A:H3'	1:6:781:U:H5'	1.97	0.45
1:6:906:A:H2'	1:6:907:A:C8	2.51	0.45
1:6:1391:A:H2'	1:6:1392:U:H6	1.81	0.45
1:6:1756[A]:A:H8	1:6:1756[A]:A:O5'	1.97	0.45
6:s4:51:ARG:HA	6:s4:51:ARG:HE	1.80	0.45
6:s4:195:ILE:HG22	6:s4:196:VAL:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:59:VAL:C	7:s5:61:TYR:N	2.74	0.45
10:s8:57:ALA:HB2	10:s8:177:GLY:HA2	1.97	0.45
13:c1:125:VAL:CG1	13:c1:137:PHE:HB3	2.43	0.45
82:c5:79:HIS:O	82:c5:81:ARG:N	2.46	0.45
19:c7:51:ALA:O	19:c7:55:THR:HG23	2.15	0.45
21:c9:109:GLU:HG2	21:c9:114:VAL:HG23	1.97	0.45
24:d2:24:GLN:HE22	29:d7:4:VAL:HA	1.82	0.45
32:e0:49:LEU:H	32:e0:49:LEU:HD22	1.81	0.45
84:sM:57:ASN:O	84:sM:61:ILE:HG22	2.16	0.45
36:5:44:U:OP1	51:m5:84:PRO:HD2	2.16	0.45
36:5:313:A:C6	36:5:314:U:C4	3.03	0.45
36:5:1117:G:OP1	65:n9:4:SER:HB2	2.17	0.45
36:5:1846:C:H5"	36:5:1849:C:N4	2.31	0.45
36:5:2960:C:OP1	92:5:4228:OHX:N5	2.49	0.45
36:5:3017:A:O2'	36:5:3018:C:H5'	2.17	0.45
36:5:3136:G:C6	36:5:3137:C:C4	3.04	0.45
36:5:3269:U:H4'	36:5:3270:U:O5'	2.16	0.45
52:m6:85:ARG:HD3	52:m6:90:HIS:ND1	2.31	0.45
79:q3:56:THR:HA	79:q3:63:THR:HA	1.98	0.45
1:2:239:C:H2'	1:2:240:U:C6	2.52	0.45
1:2:269:G:C6	1:2:287:G:C6	3.03	0.45
1:2:320:U:C6	1:2:321:C:H2'	2.52	0.45
1:2:711:U:H4'	1:2:712:G:OP1	2.15	0.45
1:2:885:G:H2'	1:2:886:U:C6	2.51	0.45
1:2:902:G:O5'	1:2:902:G:H8	1.99	0.45
1:2:1231:U:C4	1:2:1255:G:N2	2.84	0.45
4:S2:146:THR:HG23	4:S2:148:LEU:HB2	1.99	0.45
9:S7:173:TYR:CE1	9:S7:181:ILE:HD13	2.52	0.45
24:D2:104:LEU:HA	24:D2:126:LEU:H	1.82	0.45
28:D6:10:ARG:HD3	28:D6:34:LYS:O	2.15	0.45
33:E1:136:LYS:C	33:E1:138:ARG:N	2.74	0.45
36:1:1072:G:H2'	36:1:1073:U:C6	2.52	0.45
36:1:2331:C:H2'	36:1:2332:A:C8	2.51	0.45
36:1:2444:C:H3'	36:1:2445:A:H5"	1.97	0.45
36:1:3207:U:H5	56:N0:159:SER:HA	1.81	0.45
40:L3:358:TRP:CH2	40:L3:360:ASP:HB2	2.51	0.45
44:L7:83:LEU:HD21	44:L7:116:PHE:HB3	1.99	0.45
45:L8:67:ILE:HG22	45:L8:237:ILE:HB	1.97	0.45
46:L9:139:ASN:O	46:L9:139:ASN:ND2	2.49	0.45
52:M6:68:ARG:H	52:M6:68:ARG:HG2	1.55	0.45
57:N1:57:TYR:CD1	57:N1:89:LEU:HD21	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:29:ASP:OD1	58:N2:31:ALA:HB3	2.16	0.45
66:O0:99:ASP:O	66:O0:103:THR:HG23	2.16	0.45
67:O1:24:SER:HB2	67:O1:27:LYS:HE3	1.99	0.45
68:O2:4:LEU:HD12	68:O2:4:LEU:HA	1.83	0.45
70:O4:30:LEU:HD23	70:O4:30:LEU:HA	1.76	0.45
1:6:6:G:OP2	4:s2:205:ARG:HD2	2.16	0.45
1:6:277:U:O2'	1:6:278:U:OP1	2.30	0.45
1:6:329:G:H2'	1:6:330:G:C8	2.52	0.45
1:6:463:U:H2'	1:6:464:A:C8	2.50	0.45
1:6:472:U:H5"	11:s9:11:THR:HG23	1.97	0.45
1:6:1229:G:N1	81:c2:47:GLU:HG2	2.31	0.45
1:6:1310:U:O4	92:6:2337:OHX:N5	2.48	0.45
5:s3:42:THR:OG1	5:s3:45:LYS:O	2.32	0.45
7:s5:45:LYS:HA	7:s5:45:LYS:HD3	1.53	0.45
9:s7:31:SER:HA	9:s7:35:LYS:HB3	1.98	0.45
9:s7:102:PRO:HD3	9:s7:112:ARG:HD3	1.97	0.45
15:c3:85:PRO:HG2	15:c3:129:TYR:CE2	2.51	0.45
23:d1:56:SER:OG	23:d1:59:VAL:HG23	2.17	0.45
25:d3:130:VAL:HG21	25:d3:135:LEU:HD21	1.97	0.45
36:5:29:C:O2'	51:m5:162:ARG:O	2.29	0.45
36:5:378:A:C2	36:5:379:C:H1'	2.52	0.45
36:5:1725:C:H2'	36:5:1726:C:H6	1.81	0.45
36:5:1780:G:OP1	92:5:4354:OHX:N2	2.49	0.45
36:5:3279:A:C2'	36:5:3280:U:H5'	2.46	0.45
39:l2:45:VAL:HG22	39:l2:84:THR:HA	1.98	0.45
39:l2:48:ILE:HD11	79:q3:63:THR:HG22	1.98	0.45
40:l3:117:ARG:CZ	40:l3:175:LYS:HD3	2.46	0.45
43:l6:105:TYR:OH	43:l6:134:ARG:HD2	2.17	0.45
48:m1:122:ILE:HD13	48:m1:122:ILE:HA	1.76	0.45
54:m8:120:GLU:CD	54:m8:130:ARG:HH22	2.22	0.45
59:n3:86:ARG:HB2	59:n3:92:PHE:CE2	2.51	0.45
87:n4:23:ARG:HB3	87:n4:25:ASP:OD2	2.16	0.45
61:n5:38:LEU:O	61:n5:39:LYS:HB2	2.16	0.45
71:o5:22:VAL:O	71:o5:26:LYS:HG3	2.15	0.45
1:2:381:C:H1'	1:2:756:A:C2	2.52	0.45
1:2:1147:A:H2'	1:2:1148:C:C6	2.51	0.45
1:2:1477:G:H5"	21:C9:45:MET:O	2.16	0.45
1:2:1784:C:H2'	1:2:1785:U:H6	1.81	0.45
2:S0:112:THR:HG23	2:S0:115:PHE:HB2	1.98	0.45
4:S2:89:GLN:OE1	4:S2:94:GLN:NE2	2.48	0.45
5:S3:150:MET:HE3	35:SM:110:TRP:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.98	0.45
15:C3:77:SER:C	15:C3:79:GLY:H	2.25	0.45
20:C8:8:GLN:HB2	20:C8:9:GLY:H	1.57	0.45
36:1:22:G:H1'	38:4:104:A:N3	2.31	0.45
36:1:350:C:N3	36:1:367:A:H2'	2.32	0.45
36:1:394:G:N1	36:1:397:A:OP2	2.44	0.45
36:1:709:A:OP1	54:M8:179:ARG:NH2	2.33	0.45
36:1:1464:G:N2	36:1:1466:G:H3'	2.31	0.45
36:1:2128:C:H2'	36:1:2129:U:O4'	2.16	0.45
36:1:2667:A:C2	36:1:2668:U:H1'	2.52	0.45
36:1:2745:G:O2'	36:1:2747:A:N7	2.40	0.45
36:1:3227:A:H2'	36:1:3228:C:H5'	1.97	0.45
36:1:3290:G:N7	92:1:4377:OHX:N4	2.64	0.45
39:L2:95:SER:OG	39:L2:97:ASN:OD1	2.35	0.45
40:L3:383:LEU:O	40:L3:386:ASP:HB2	2.16	0.45
41:L4:44:LYS:HB3	41:L4:47:ARG:NH1	2.31	0.45
41:L4:311:HIS:NE2	41:L4:314:LYS:HA	2.31	0.45
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	1.99	0.45
44:L7:137:GLY:HA3	44:L7:236:ILE:HB	1.99	0.45
51:M5:48:ALA:C	51:M5:53:TYR:HB3	2.42	0.45
59:N3:2:SER:N	59:N3:57:MET:HB3	2.31	0.45
59:N3:57:MET:HE3	59:N3:75:PRO:HB3	1.98	0.45
62:N6:109:LEU:HD22	62:N6:115:ARG:CZ	2.47	0.45
63:N7:10:VAL:HB	63:N7:83:THR:HG21	1.98	0.45
1:6:609:U:H1'	25:d3:19:ARG:HD3	1.99	0.45
1:6:700:C:H2'	1:6:701:U:C6	2.51	0.45
1:6:824:G:C8	92:6:2339:OHX:N5	2.84	0.45
1:6:1488:G:O2'	1:6:1494:C:O2	2.28	0.45
1:6:1553:G:O2'	31:d9:14:TYR:OH	2.28	0.45
1:6:1655:A:H2'	1:6:1656:U:O4'	2.17	0.45
2:s0:142:PRO:HB3	23:d1:34:ILE:CD1	2.47	0.45
3:s1:113:MET:HE3	3:s1:209:ASN:ND2	2.31	0.45
6:s4:62:LYS:CE	6:s4:66:MET:HE3	2.46	0.45
6:s4:118:GLU:C	6:s4:120:SER:N	2.75	0.45
6:s4:208:VAL:HB	6:s4:225:VAL:HG21	1.99	0.45
13:c1:93:TYR:HB2	13:c1:100:TYR:CE1	2.51	0.45
13:c1:99:ARG:HG2	25:d3:9:LEU:HA	1.98	0.45
19:c7:77:GLU:HG2	19:c7:80:ARG:HH21	1.82	0.45
21:c9:105:LEU:HD13	21:c9:122:ARG:HD3	1.97	0.45
29:d7:62:ILE:HD12	29:d7:62:ILE:HA	1.78	0.45
33:e1:139:LEU:H	33:e1:151:ASN:HB3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:149:U:P	51:m5:49:ARG:HH11	2.37	0.45
36:5:189:G:H2'	36:5:224:C:OP1	2.16	0.45
36:5:249:U:OP2	36:5:249:U:H2'	2.16	0.45
36:5:328:U:O4	92:8:224:OHX:N1	2.50	0.45
36:5:335:G:OP2	62:n6:14:LYS:HE3	2.16	0.45
36:5:703:G:O2'	36:5:787:G:H4'	2.16	0.45
36:5:1927:G:N2	36:5:1928:G:C8	2.84	0.45
36:5:2147:A:H2'	36:5:2148:U:O4'	2.17	0.45
36:5:2818:U:H5'	36:5:2818:U:C6	2.45	0.45
36:5:3060:C:H1'	36:5:3332:U:H1'	1.98	0.45
36:5:3078:U:O2	36:5:3078:U:O5'	2.34	0.45
39:l2:47:GLN:OE1	39:l2:60:LYS:HD2	2.17	0.45
42:l5:270:LYS:HG3	42:l5:273:ARG:CB	2.43	0.45
85:l8:91:PHE:CE2	85:l8:185:ARG:HB3	2.52	0.45
85:l8:105:LYS:HG2	85:l8:109:LEU:HD23	1.97	0.45
86:m2:105:UNK:HA	86:m2:142:UNK:O	2.16	0.45
53:m7:69:ARG:HA	53:m7:79:THR:O	2.17	0.45
56:n0:14:LEU:HA	56:n0:14:LEU:HD23	1.72	0.45
87:n4:120:LYS:HA	87:n4:123:ARG:HD2	1.97	0.45
63:n7:25:ILE:HA	63:n7:43:VAL:HG12	1.97	0.45
90:a:76:PPU:HD1	90:a:76:PPU:HA	1.73	0.45
1:2:1146:G:C6	1:2:1147:A:C6	3.04	0.45
1:2:1297:G:N2	1:2:1300:A:OP2	2.38	0.45
1:2:1467:C:H2'	1:2:1468:U:H6	1.80	0.45
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.99	0.45
2:S0:103:THR:HA	2:S0:104:PRO:HD3	1.77	0.45
3:S1:97:LEU:HD13	3:S1:98:THR:H	1.80	0.45
3:S1:180:THR:HG22	3:S1:181:LEU:HD22	1.99	0.45
4:S2:129:ILE:O	4:S2:133:LYS:HG2	2.16	0.45
6:S4:187:ARG:O	6:S4:187:ARG:HD3	2.16	0.45
10:S8:182:TYR:OH	10:S8:188:GLU:OE1	2.33	0.45
11:S9:109:LEU:HD11	11:S9:134:ILE:HD11	1.98	0.45
12:C0:50:THR:HG21	12:C0:57:THR:OG1	2.17	0.45
16:C4:25:ASP:N	16:C4:55:SER:HB3	2.31	0.45
26:D4:5:VAL:O	26:D4:6:THR:HB	2.16	0.45
26:D4:112:LYS:O	26:D4:116:LYS:HG3	2.16	0.45
33:E1:93:HIS:HB3	33:E1:94:LYS:H	1.63	0.45
34:SR:67:ILE:C	34:SR:84:SER:HG	2.24	0.45
36:1:1668:G:C5	36:1:1669:C:C5	3.03	0.45
36:1:2144:A:C4	36:1:2281:A:N6	2.85	0.45
36:1:2206:G:H1	36:1:2237:C:H42	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2367:A:H2'	36:1:2368:A:C8	2.51	0.45
36:1:2418:G:O6	92:1:4358:OHX:N1	2.50	0.45
36:1:2593:A:H4'	36:1:2594:C:O5'	2.16	0.45
36:1:3045:G:H2'	36:1:3046:A:O4'	2.17	0.45
36:1:3049:A:C2	40:L3:75:ALA:HB2	2.52	0.45
36:1:3312:U:H5"	40:L3:25:ILE:HD12	1.98	0.45
36:1:3319:U:O2'	36:1:3320:A:OP1	2.26	0.45
37:3:45:A:H2'	37:3:46:A:H8	1.79	0.45
38:4:132:G:N7	92:4:240:OHX:N1	2.64	0.45
40:L3:14:LEU:HD13	40:L3:262:TRP:CH2	2.51	0.45
40:L3:56:ILE:HD11	40:L3:359:ILE:HG12	1.99	0.45
40:L3:347:SER:HB2	40:L3:350:ALA:HB3	1.98	0.45
41:L4:31:ARG:O	41:L4:35:VAL:HG23	2.16	0.45
43:L6:30:LEU:HD11	43:L6:63:LEU:HD21	1.97	0.45
44:L7:175:LYS:HB2	44:L7:175:LYS:HE2	1.77	0.45
47:M0:61:SER:HB2	47:M0:63:GLU:HG2	1.99	0.45
58:N2:34:ALA:O	58:N2:38:ILE:HB	2.16	0.45
1:6:336:G:H2'	1:6:338:C:H5	1.81	0.45
1:6:542:A:C8	1:6:543:C:H2'	2.52	0.45
1:6:1340:U:O4	18:c6:9:THR:HA	2.15	0.45
1:6:1505:A:C5	1:6:1506:G:H1'	2.52	0.45
1:6:1699:G:N2	1:6:1702:A:O4'	2.49	0.45
6:s4:206:ASP:HB2	6:s4:222:LEU:HD12	1.99	0.45
7:s5:35:GLN:O	7:s5:37:GLN:N	2.49	0.45
9:s7:63:PRO:O	9:s7:64:VAL:HB	2.17	0.45
11:s9:150:LEU:HD12	11:s9:150:LEU:HA	1.73	0.45
82:c5:18:ARG:HD3	20:c8:90:ASN:OD1	2.16	0.45
22:d0:99:ILE:H	22:d0:99:ILE:HD13	1.82	0.45
25:d3:17:VAL:HG23	25:d3:20:ARG:NH2	2.31	0.45
32:e0:39:LEU:HG	32:e0:43:ARG:NH2	2.32	0.45
33:e1:100:LEU:HD12	33:e1:102:VAL:HA	1.98	0.45
83:sR:251:TRP:NE1	83:sR:271:VAL:HG21	2.32	0.45
36:5:527:A:H2'	36:5:528:U:C6	2.51	0.45
36:5:1696:A:H2'	36:5:1697:A:C8	2.51	0.45
36:5:1741:A:C6	36:5:1742:U:C2	3.05	0.45
36:5:2730:G:OP2	92:5:4215:OHX:N4	2.50	0.45
36:5:3049:A:C5'	40:l3:53:MET:HB2	2.46	0.45
36:5:3347:A:H61	36:5:3358:U:H3	1.64	0.45
40:l3:25:ILE:HD11	40:l3:334:ARG:NE	2.31	0.45
42:l5:105:ILE:O	42:l5:109:THR:HG23	2.16	0.45
46:l9:163:GLN:CD	46:l9:166:ARG:HH11	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:67:ARG:O	51:m5:68:ARG:HB3	2.16	0.45
59:n3:133:SER:O	92:n3:204:OHX:N3	2.49	0.45
61:n5:45:LYS:HG2	71:o5:75:TYR:HD2	1.81	0.45
72:o6:43:LEU:O	72:o6:47:ILE:HG13	2.17	0.45
78:q2:15:LYS:HG3	78:q2:18:ARG:NH1	2.31	0.45
88:p0:40:GLU:HB2	88:p0:104:ARG:HG3	1.98	0.45
1:2:304:U:H2'	1:2:305:C:H6	1.82	0.45
1:2:1120:U:H2'	1:2:1121:C:C6	2.52	0.45
1:2:1498:G:C2'	1:2:1499:G:H5'	2.47	0.45
1:2:1536:G:C2	1:2:1538:U:C2	3.04	0.45
4:S2:169:LEU:HD11	4:S2:188:LEU:HD21	1.99	0.45
5:S3:113:LEU:HD21	5:S3:117:ARG:NH1	2.31	0.45
34:SR:38:ARG:HG2	34:SR:67:ILE:CG2	2.47	0.45
36:1:279:U:H2'	36:1:280:U:H6	1.81	0.45
36:1:424:G:O2'	68:O2:23:ASP:OD2	2.19	0.45
36:1:863:C:OP1	92:1:4117:OHX:N5	2.50	0.45
36:1:2278:C:C2'	36:1:2279:A:H5"	2.47	0.45
40:L3:35:ASP:OD2	40:L3:37:ARG:NH1	2.42	0.45
40:L3:53:MET:HG3	40:L3:77:THR:HG22	1.99	0.45
40:L3:286:GLY:HA3	40:L3:321:PHE:CZ	2.52	0.45
42:L5:143:LYS:HG3	42:L5:172:TYR:HD2	1.81	0.45
51:M5:93:LYS:O	51:M5:94:TYR:HB3	2.16	0.45
51:M5:144:ARG:O	51:M5:145:ASP:C	2.58	0.45
65:N9:23:LYS:HD2	65:N9:23:LYS:HA	1.38	0.45
1:6:355:G:P	92:6:2163:OHX:N5	2.90	0.45
1:6:515:A:H2'	1:6:516:G:O4'	2.17	0.45
1:6:1041:G:H2'	1:6:1042:G:C8	2.52	0.45
1:6:1186:U:H2'	1:6:1187:U:O4'	2.16	0.45
1:6:1546:G:OP1	20:c8:123:ARG:NH1	2.45	0.45
2:s0:124:THR:O	2:s0:146:LEU:HB2	2.17	0.45
82:c5:127:ARG:HD2	82:c5:127:ARG:HA	1.74	0.45
25:d3:43:PHE:CE1	25:d3:49:ALA:HB3	2.51	0.45
27:d5:58:ARG:O	27:d5:102:THR:HA	2.17	0.45
36:5:59:G:H2'	38:8:33:A:O2'	2.16	0.45
36:5:135:C:H4'	36:5:136:G:OP2	2.17	0.45
36:5:191:U:H2'	36:5:192:C:H6	1.81	0.45
36:5:523:A:N6	36:5:570:A:C2	2.84	0.45
36:5:532:A:O2'	36:5:533:A:H5'	2.17	0.45
36:5:1223:A:OP2	36:5:1285:G:N2	2.48	0.45
36:5:2273:G:O6	92:5:4480:OHX:N5	2.49	0.45
36:5:2298:U:O4	36:5:2923:U:H5	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2573:G:H2'	36:5:2574:G:O4'	2.17	0.45
36:5:2585:G:O6	85:l8:47:SER:HB2	2.16	0.45
37:7:92:A:C5	37:7:93:C:H1'	2.52	0.45
39:l2:121:GLY:O	39:l2:123:ARG:HG3	2.17	0.45
40:l3:332:ARG:NH1	40:l3:333:LYS:HD2	2.32	0.45
56:n0:155:ARG:HD3	56:n0:172:TYR:CG	2.52	0.45
58:n2:23:THR:HA	58:n2:28:PHE:HB3	1.98	0.45
66:o0:34:LEU:HD12	66:o0:34:LEU:HA	1.83	0.45
1:2:66:U:C4	8:S6:158:ILE:HG21	2.51	0.45
1:2:76:A:N6	1:2:80:A:O2'	2.49	0.45
1:2:854:U:O4	1:2:855:A:N6	2.50	0.45
1:2:1014:G:H2'	1:2:1015:U:O4'	2.17	0.45
1:2:1174:C:H2'	1:2:1175:U:O4'	2.15	0.45
1:2:1235:C:O2	33:E1:138:ARG:NE	2.50	0.45
11:S9:169:PRO:HD2	11:S9:174:ARG:HD2	1.98	0.45
13:C1:29:LYS:O	13:C1:31:THR:N	2.50	0.45
17:C5:112:LEU:HD23	17:C5:112:LEU:HA	1.78	0.45
23:D1:71:ARG:HG3	23:D1:83:TRP:CH2	2.52	0.45
35:SM:51:ARG:O	35:SM:52:PRO:C	2.60	0.45
35:SM:104:LYS:O	35:SM:108:GLN:HG2	2.17	0.45
36:1:255:A:O2'	36:1:256:G:H5'	2.16	0.45
36:1:1407:A:O3'	68:O2:33:ARG:NH2	2.50	0.45
36:1:1458:U:H2'	36:1:1459:C:C6	2.52	0.45
36:1:1699:A:H2'	36:1:1700:G:H8	1.81	0.45
36:1:2172:A:OP2	92:1:4294:OHX:N4	2.50	0.45
36:1:3151:U:H4'	36:1:3294:A:C1'	2.47	0.45
40:L3:219:ALA:HB2	40:L3:336:VAL:HG13	1.98	0.45
45:L8:121:SER:O	45:L8:123:GLN:N	2.48	0.45
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.99	0.45
47:M0:210:ILE:HG23	47:M0:217:PHE:CE2	2.52	0.45
49:M3:189:GLU:HA	49:M3:192:GLU:OE1	2.17	0.45
56:N0:40:ARG:HD2	56:N0:40:ARG:HA	1.56	0.45
63:N7:87:LEU:HB2	63:N7:127:ASN:ND2	2.32	0.45
64:N8:116:GLY:HA2	64:N8:137:LYS:NZ	2.31	0.45
1:6:158:U:O2'	1:6:160:C:OP2	2.26	0.45
1:6:358:U:O2'	1:6:360:A:H5"	2.16	0.45
1:6:859:A:C5	15:c3:73:ARG:HD3	2.52	0.45
1:6:1392:U:H2'	1:6:1393:C:C6	2.51	0.45
2:s0:187:ALA:O	2:s0:188:LEU:HD23	2.17	0.45
3:s1:226:GLY:HA2	36:5:2536:A:H4'	1.99	0.45
6:s4:49:ARG:HG3	6:s4:50:ASN:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:161:LYS:HB3	6:s4:170:THR:O	2.17	0.45
11:s9:28:LEU:HB3	32:e0:44:PHE:HZ	1.81	0.45
18:c6:95:LYS:O	83:sR:59:ARG:NH2	2.50	0.45
22:d0:44:ASN:HA	22:d0:47:GLN:HB3	1.98	0.45
26:d4:23:PHE:CE2	26:d4:75:VAL:HG23	2.52	0.45
28:d6:46:GLU:HG3	28:d6:47:ALA:N	2.32	0.45
36:5:118:U:C5	36:5:119:U:C4	3.05	0.45
36:5:585:A:H2'	36:5:586:C:C6	2.52	0.45
36:5:2144:A:H1'	36:5:2281:A:N6	2.32	0.45
36:5:3181:C:H2'	36:5:3182:G:C8	2.51	0.45
36:5:3317:U:H4'	36:5:3318:G:C5'	2.47	0.45
38:8:113:U:H5"	75:o9:7:PHE:HB3	1.98	0.45
40:l3:347:SER:CB	40:l3:350:ALA:H	2.29	0.45
44:l7:203:TRP:CD1	44:l7:204:PRO:HD2	2.52	0.45
85:l8:45:ASN:ND2	61:n5:26:VAL:HG22	2.32	0.45
85:l8:63:LYS:O	85:l8:67:ILE:HG12	2.17	0.45
47:m0:86:HIS:HD1	47:m0:139:ARG:HH11	1.62	0.45
49:m3:48:PRO:HB2	71:o5:117:ALA:HB2	1.98	0.45
49:m3:160:GLN:OE1	49:m3:160:GLN:HA	2.17	0.45
51:m5:184:LYS:HG3	51:m5:185:ALA:N	2.31	0.45
58:n2:43:VAL:HG23	58:n2:49:ASN:HB3	1.99	0.45
59:n3:90:GLY:O	87:n4:16:GLY:HA2	2.16	0.45
87:n4:50:ALA:HA	87:n4:55:PHE:CG	2.52	0.45
69:o3:59:VAL:O	69:o3:61:GLY:N	2.43	0.45
71:o5:5:LYS:O	71:o5:9:LEU:HG	2.16	0.45
88:p0:27:VAL:HG22	88:p0:86:PHE:CE1	2.51	0.45
1:2:122:U:O4	92:2:2095:OHX:N3	2.49	0.45
1:2:312:A:C2	1:2:314:C:H2'	2.52	0.45
1:2:396:G:N7	10:S8:47:ARG:NH2	2.63	0.45
1:2:1524:A:C6	1:2:1525:A:C6	3.05	0.45
2:S0:12:GLU:HG3	2:S0:13:ASP:OD1	2.17	0.45
2:S0:31:VAL:HG23	2:S0:150:ASP:HA	1.98	0.45
3:S1:105:PHE:CD2	3:S1:213:ARG:HA	2.52	0.45
3:S1:133:TYR:CG	3:S1:181:LEU:HD11	2.52	0.45
8:S6:59:GLN:HE21	8:S6:72:ARG:HH22	1.63	0.45
10:S8:185:GLU:HG2	13:C1:23:PRO:HG2	1.99	0.45
11:S9:105:LEU:O	11:S9:108:ARG:HG3	2.17	0.45
12:C0:77:ARG:HD3	12:C0:84:UNK:HA	1.98	0.45
20:C8:38:VAL:HG12	20:C8:42:TYR:HD2	1.81	0.45
23:D1:54:ALA:O	23:D1:55:LEU:HD23	2.16	0.45
25:D3:107:PHE:CE2	25:D3:114:LYS:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:51:ASP:HB2	34:SR:52:GLN:H	1.66	0.45
36:1:59:G:H2'	38:4:33:A:O2'	2.16	0.45
36:1:283:G:OP2	36:1:285:A:H4'	2.17	0.45
36:1:1204:A:H2	36:1:2834:G:N3	2.14	0.45
36:1:1240:A:H3'	36:1:1241:U:C5'	2.47	0.45
36:1:1422:G:H21	43:L6:5:LYS:NZ	2.15	0.45
36:1:1507:G:N7	53:M7:129:THR:HB	2.30	0.45
36:1:1686:U:OP1	58:N2:42:LYS:NZ	2.31	0.45
36:1:1793:C:C5	39:L2:179:LEU:HD13	2.52	0.45
36:1:2556:C:H5'	63:N7:136:PHE:C	2.42	0.45
36:1:3389:U:O2'	36:1:3390:G:OP2	2.35	0.45
38:4:83:C:H1'	38:4:85:G:H21	1.82	0.45
57:N1:17:ARG:HE	57:N1:47:SER:HB3	1.82	0.45
59:N3:13:ILE:HD11	59:N3:54:LEU:HB3	1.98	0.45
62:N6:53:ASP:HB2	62:N6:110:HIS:CD2	2.52	0.45
63:N7:17:ARG:C	63:N7:19:ALA:H	2.25	0.45
1:6:95:G:OP1	6:s4:6:LYS:HD2	2.17	0.45
1:6:151:G:H22	1:6:163:G:N2	2.15	0.45
1:6:192:U:O4	10:s8:137:LYS:NZ	2.50	0.45
1:6:198:A:C2'	1:6:199:G:H5'	2.46	0.45
1:6:754:A:N6	1:6:793:A:H62	2.15	0.45
3:s1:145:LYS:HG2	3:s1:149:GLN:CD	2.42	0.45
3:s1:149:GLN:HE22	3:s1:154:SER:HB3	1.82	0.45
4:s2:125:ILE:O	4:s2:128:GLY:N	2.50	0.45
6:s4:141:THR:OG1	6:s4:145:ARG:HB2	2.17	0.45
10:s8:5:ARG:NH1	10:s8:29:LEU:O	2.40	0.45
11:s9:79:ARG:O	11:s9:83:VAL:HG22	2.17	0.45
18:c6:52:LEU:HA	18:c6:60:PHE:CE1	2.52	0.45
26:d4:49:LYS:HD3	26:d4:49:LYS:N	2.32	0.45
36:5:121:A:C4	85:l8:108:ARG:NH1	2.85	0.45
36:5:269:G:H5'	51:m5:120:TRP:CE3	2.52	0.45
36:5:412:G:C6	36:5:413:U:C4	3.05	0.45
36:5:431:U:OP1	69:o3:53:TYR:OH	2.32	0.45
36:5:1049:C:H2'	36:5:1050:U:H6	1.81	0.45
36:5:1176:C:OP1	52:m6:25:LYS:HE3	2.16	0.45
36:5:1369:A:OP1	64:n8:21:ARG:NH1	2.49	0.45
36:5:2103:U:H2'	36:5:2104:A:C8	2.51	0.45
36:5:2340:U:H6	36:5:2340:U:H5"	1.82	0.45
36:5:2947:G:OP2	36:5:2947:G:H4'	2.17	0.45
36:5:3275:U:H4'	36:5:3276:G:OP2	2.14	0.45
40:l3:106:TRP:HB2	40:l3:133:TYR:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:370:PHE:CD2	40:l3:376:LYS:HG3	2.52	0.45
41:l4:104:LYS:HD2	41:l4:106:TRP:CZ2	2.52	0.45
85:l8:230:LYS:O	85:l8:230:LYS:HG3	2.13	0.45
46:l9:159:ALA:O	46:l9:163:GLN:HB2	2.17	0.45
48:m1:116:TYR:CD1	48:m1:118:PRO:HD3	2.52	0.45
52:m6:121:PRO:O	52:m6:124:LEU:HB2	2.17	0.45
57:n1:14:MET:HE3	57:n1:15:PHE:CE2	2.52	0.45
62:n6:71:SER:OG	62:n6:83:ASP:N	2.50	0.45
62:n6:83:ASP:O	62:n6:84:LYS:HB2	2.16	0.45
62:n6:126:LEU:HB3	62:n6:127:GLU:CD	2.41	0.45
70:o4:96:GLU:HA	70:o4:99:LYS:HD2	1.97	0.45
1:2:653:C:H2'	1:2:654:C:O4'	2.17	0.45
1:2:701:U:H3	1:2:737:A:N6	1.95	0.45
1:2:867:G:O6	92:2:2078:OHX:N2	2.50	0.45
1:2:1111:G:C6	1:2:1112:G:C4	3.05	0.45
1:2:1449:U:H2'	1:2:1450:U:C6	2.51	0.45
1:2:1528:U:H2'	1:2:1529:C:C6	2.51	0.45
2:S0:41:ARG:HH11	2:S0:45:VAL:HG21	1.82	0.45
8:S6:219:ARG:O	8:S6:223:LYS:HB2	2.17	0.45
35:SM:54:PRO:HB2	35:SM:59:GLY:HA2	1.98	0.45
36:1:562:C:H2'	36:1:563:U:H6	1.82	0.45
36:1:637:C:HO2'	36:1:638:C:H5	1.63	0.45
36:1:1126:G:H5"	47:M0:119:TRP:HZ3	1.82	0.45
36:1:1246:G:H8	36:1:1246:G:OP1	2.00	0.45
36:1:1470:U:H2'	36:1:1471:U:C6	2.52	0.45
36:1:2801:A:O2'	36:1:2802:A:H2'	2.17	0.45
36:1:2971:A:H3'	36:1:2971:A:N3	2.31	0.45
36:1:2984:C:H2'	36:1:2985:C:C6	2.51	0.45
40:L3:379:PHE:CD1	40:L3:379:PHE:C	2.95	0.45
41:L4:141:ARG:N	41:L4:177:ASP:OD1	2.48	0.45
41:L4:274:TYR:CE1	41:L4:276:LEU:HD23	2.50	0.45
42:L5:64:ILE:HD13	42:L5:105:ILE:HD12	1.99	0.45
47:M0:43:VAL:HG21	47:M0:197:VAL:HG22	1.98	0.45
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.52	0.45
47:M0:55:ASN:HB3	47:M0:162:GLN:OE1	2.17	0.45
47:M0:74:LYS:HB2	47:M0:74:LYS:HE3	1.64	0.45
48:M1:60:ARG:O	48:M1:63:GLU:HB2	2.17	0.45
49:M3:9:ILE:HD13	64:N8:52:TYR:HE1	1.79	0.45
49:M3:188:ARG:O	49:M3:192:GLU:HB3	2.17	0.45
53:M7:88:VAL:O	53:M7:92:GLN:HG2	2.17	0.45
57:N1:6:GLY:O	57:N1:9:SER:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:58:ASP:OD1	71:O5:25:LYS:NZ	2.49	0.45
61:N5:139:ILE:HG12	61:N5:141:TYR:CD2	2.52	0.45
64:N8:94:ALA:HB1	64:N8:121:VAL:HA	1.99	0.45
70:O4:9:ARG:NE	70:O4:34:HIS:CD2	2.85	0.45
70:O4:22:VAL:HG12	70:O4:30:LEU:HD22	1.99	0.45
1:6:282:C:H2'	1:6:283:U:O4'	2.16	0.45
1:6:332:U:OP1	10:s8:31:ARG:NE	2.46	0.45
1:6:824:G:N7	92:6:2339:OHX:N6	2.65	0.45
1:6:1119:G:H2'	1:6:1120:U:H6	1.81	0.45
4:s2:143:TYR:CD2	4:s2:147:ASN:HA	2.52	0.45
5:s3:40:ARG:HD2	5:s3:49:ILE:HD11	1.97	0.45
8:s6:214:LYS:HB2	8:s6:214:LYS:HE3	1.82	0.45
27:d5:49:ARG:NH2	27:d5:53:GLU:OE2	2.50	0.45
36:5:437:G:C5	92:5:4556:OHX:N3	2.85	0.45
36:5:965:A:H5"	49:m3:4:SER:HB3	1.98	0.45
36:5:976:U:H2'	36:5:977:C:O4'	2.16	0.45
36:5:1444:G:H2'	36:5:1445:U:O4'	2.16	0.45
36:5:1795:U:C4	79:q3:51:ALA:HA	2.52	0.45
36:5:1840:U:OP2	92:5:4297:OHX:N4	2.50	0.45
36:5:2440:G:H2'	36:5:2441:A:C8	2.52	0.45
36:5:2664:C:OP2	48:m1:142:LYS:HE2	2.16	0.45
36:5:2927:C:H2'	36:5:2928:C:C6	2.51	0.45
36:5:3006:A:C2	36:5:3141:A:C4	3.05	0.45
36:5:3025:C:H2'	36:5:3026:G:O4'	2.17	0.45
36:5:3136:G:C5	36:5:3137:C:C5	3.04	0.45
36:5:3215:A:H5'	50:m4:121:MET:HE1	1.99	0.45
37:7:121:U:H5'	42:l5:260:PHE:CE2	2.52	0.45
44:l7:22:THR:HA	44:l7:25:GLN:HG2	1.99	0.45
46:l9:19:SER:HB3	50:m4:6:ILE:HG13	1.99	0.45
51:m5:4:TYR:CE1	51:m5:49:ARG:HD3	2.52	0.45
52:m6:110:PRO:HB2	52:m6:111:PRO:CD	2.47	0.45
61:n5:57:LEU:HD23	61:n5:61:LYS:HG2	1.98	0.45
72:o6:79:SER:OG	72:o6:81:THR:HG23	2.17	0.45
1:2:463:U:O2'	1:2:527:A:N1	2.48	0.45
1:2:755:A:HO2'	1:2:756:A:P	2.40	0.45
1:2:993:A:H4'	1:2:1777:G:O2'	2.17	0.45
1:2:1151:A:H2'	1:2:1152:A:C8	2.52	0.45
1:2:1410:A:H5"	18:C6:118:ILE:CD1	2.47	0.45
1:2:1450:U:H2'	1:2:1451:C:H6	1.80	0.45
1:2:1541:G:C5	1:2:1542:G:C6	3.05	0.45
7:S5:203:LYS:HD2	7:S5:203:LYS:HA	1.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:17:GLU:HG2	9:S7:46:ILE:HB	1.97	0.45
15:C3:23:PRO:O	15:C3:25:TRP:N	2.47	0.45
20:C8:127:HIS:NE2	20:C8:133:VAL:HG21	2.31	0.45
29:D7:47:PHE:HD1	29:D7:49:HIS:O	1.99	0.45
32:E0:56:MET:HE3	32:E0:56:MET:HB2	1.93	0.45
34:SR:128:ASP:O	34:SR:130:THR:HG23	2.17	0.45
34:SR:134:TRP:CD1	34:SR:134:TRP:N	2.85	0.45
36:1:94:G:H2'	36:1:95:A:C8	2.52	0.45
36:1:269:G:H5"	51:M5:14:LYS:HE2	1.99	0.45
36:1:562:C:H2'	36:1:563:U:C6	2.52	0.45
36:1:839:C:H4'	36:1:1724:U:C2'	2.45	0.45
36:1:1854:C:OP2	92:1:4267:OHX:N5	2.50	0.45
36:1:2258:U:H2'	36:1:2259:A:O4'	2.17	0.45
36:1:2834:G:OP1	92:1:4465:OHX:N3	2.49	0.45
36:1:2869:U:O2	92:1:4436:OHX:N3	2.50	0.45
36:1:3072:C:H2'	36:1:3073:A:O4'	2.17	0.45
36:1:3136:G:C6	36:1:3137:C:C4	3.05	0.45
36:1:3355:U:H3'	36:1:3356:G:H5"	1.98	0.45
40:L3:3:HIS:O	40:L3:3:HIS:CG	2.69	0.45
50:M4:36:VAL:HG11	50:M4:55:ARG:NH2	2.32	0.45
50:M4:47:ASP:OD1	50:M4:55:ARG:HB2	2.16	0.45
56:N0:1:MET:HB2	56:N0:118:PHE:CD1	2.52	0.45
70:O4:3:GLN:HB3	70:O4:30:LEU:HD12	1.99	0.45
71:O5:38:ARG:HG2	71:O5:40:SER:O	2.17	0.45
71:O5:54:VAL:O	71:O5:58:ILE:HG13	2.17	0.45
71:O5:83:LYS:O	71:O5:89:ARG:NE	2.50	0.45
74:O8:45:VAL:O	74:O8:51:LEU:HD12	2.15	0.45
1:6:393:C:OP2	10:s8:2:GLY:N	2.50	0.45
1:6:768:C:H1'	11:s9:143:ILE:HG21	1.98	0.45
1:6:970:A:H2'	1:6:971:A:H5'	1.99	0.45
1:6:1435:G:O6	80:c0:64:TYR:OH	2.30	0.45
1:6:1516:A:C8	22:d0:58:LEU:HD23	2.51	0.45
1:6:1628:U:H2'	1:6:1629:G:C8	2.52	0.45
2:s0:30:GLN:OE1	2:s0:31:VAL:N	2.50	0.45
82:c5:33:PHE:CE1	82:c5:112:LEU:HD13	2.52	0.45
21:c9:117:SER:HB2	21:c9:123:ARG:HB3	1.98	0.45
21:c9:126:GLU:H	21:c9:126:GLU:CD	2.24	0.45
36:5:106:A:C2	36:5:325:A:N3	2.85	0.45
36:5:186:U:OP2	92:5:4168:OHX:N4	2.50	0.45
36:5:210:U:C2	36:5:230:U:H4'	2.52	0.45
36:5:286:U:OP2	92:5:4237:OHX:N2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:736:A:C5	36:5:737:G:H1'	2.52	0.45
36:5:1259:A:H5'	88:p0:53:MET:O	2.16	0.45
36:5:1317:A:O2'	36:5:1318:A:H3'	2.17	0.45
36:5:1490:A:H5"	36:5:1491:A:OP2	2.17	0.45
36:5:2877:G:H2'	36:5:2878:G:O4'	2.17	0.45
85:l8:54:GLU:HG2	85:l8:57:ARG:NH2	2.32	0.45
50:m4:48:GLY:HA3	50:m4:53:VAL:HB	1.98	0.45
51:m5:48:ALA:C	51:m5:53:TYR:HB3	2.41	0.45
51:m5:73:ARG:HG2	51:m5:75:VAL:HB	1.99	0.45
52:m6:119:VAL:HG12	56:n0:164:SER:HB3	1.98	0.45
54:m8:62:VAL:O	54:m8:87:VAL:HA	2.17	0.45
58:n2:41:ILE:HD13	58:n2:71:PHE:CE2	2.52	0.45
62:n6:125:LYS:O	62:n6:126:LEU:HG	2.17	0.45
64:n8:120:ASN:HA	64:n8:141:ALA:HB1	1.99	0.45
72:o6:79:SER:HB3	72:o6:82:ARG:HG3	1.99	0.45
88:p0:41:VAL:HG12	88:p0:45:LEU:HD12	1.98	0.45
1:2:25:C:OP2	1:2:25:C:H4'	2.16	0.44
1:2:142:G:H5"	8:S6:139:ASN:HD21	1.82	0.44
1:2:549:G:C2	1:2:550:A:C8	3.05	0.44
1:2:912:U:H4'	1:2:913:G:O5'	2.17	0.44
1:2:1172:G:H21	21:C9:88:VAL:CG2	2.30	0.44
1:2:1367:G:C2	1:2:1368:G:C8	3.05	0.44
1:2:1508:U:O4	92:2:2077:OHX:N6	2.47	0.44
1:2:1536:G:H5'	1:2:1537:C:OP2	2.17	0.44
7:S5:64:VAL:HG22	7:S5:89:ILE:HD11	1.99	0.44
9:S7:23:ALA:O	9:S7:27:LEU:HG	2.17	0.44
18:C6:60:PHE:HA	18:C6:63:ILE:HD11	1.99	0.44
18:C6:97:VAL:CG2	18:C6:98:ASP:N	2.79	0.44
22:D0:108:ILE:H	22:D0:108:ILE:HG13	1.50	0.44
25:D3:31:LYS:HA	25:D3:31:LYS:HD3	1.73	0.44
35:SM:61:ILE:H	35:SM:61:ILE:HG13	1.57	0.44
36:1:703:G:O2'	36:1:787:G:H4'	2.16	0.44
36:1:748:U:H2'	36:1:749:C:C6	2.52	0.44
36:1:844:G:N7	92:1:4155:OHX:N5	2.65	0.44
36:1:1069:C:H2'	36:1:1070:U:C6	2.52	0.44
36:1:1555:U:O2'	36:1:2169:G:N2	2.50	0.44
36:1:2358:A:H2'	36:1:2359:C:O4'	2.17	0.44
43:L6:130:ILE:CG2	43:L6:135:VAL:HG23	2.47	0.44
45:L8:152:LEU:HB3	45:L8:180:VAL:CG2	2.47	0.44
51:M5:115:VAL:O	51:M5:159:ARG:HD3	2.17	0.44
57:N1:104:GLU:HG3	57:N1:105:PHE:N	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:50:LEU:O	58:N2:52:ASN:N	2.50	0.44
62:N6:90:VAL:C	62:N6:92:GLY:H	2.23	0.44
64:N8:7:LYS:HD3	64:N8:7:LYS:HA	1.70	0.44
64:N8:96:LYS:HB2	64:N8:97:GLU:OE1	2.16	0.44
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CZ3	2.52	0.44
1:6:1080:U:H2'	1:6:1081:A:C8	2.52	0.44
1:6:1511:U:H2'	1:6:1512:G:C8	2.52	0.44
5:s3:107:PHE:O	5:s3:111:ASN:N	2.43	0.44
8:s6:52:ILE:HG23	8:s6:109:LEU:HD21	1.99	0.44
8:s6:58:LYS:NZ	8:s6:105:ASP:HA	2.32	0.44
8:s6:67:VAL:HG21	8:s6:99:GLY:HA2	1.99	0.44
18:c6:83:GLN:HG3	18:c6:115:THR:HG22	1.98	0.44
23:d1:74:GLN:HG2	23:d1:79:LEU:HB2	1.98	0.44
26:d4:34:ASN:HB3	26:d4:35:VAL:H	1.55	0.44
83:sR:238:ASP:OD2	83:sR:258:THR:OG1	2.29	0.44
36:5:421:G:C8	36:5:2365:C:C6	3.04	0.44
36:5:901:G:H2'	36:5:902:G:H8	1.82	0.44
36:5:1301:A:H8	36:5:1301:A:OP1	2.00	0.44
36:5:2529:A:OP1	85:l8:248:LYS:HE2	2.17	0.44
36:5:2712:U:H2'	36:5:2713:U:C6	2.52	0.44
41:l4:141:ARG:NH1	41:l4:180:LYS:HD3	2.32	0.44
85:l8:171:LYS:NZ	85:l8:223:ALA:O	2.34	0.44
46:l9:136:PHE:CE1	46:l9:144:ILE:HG12	2.52	0.44
47:m0:145:LYS:O	47:m0:149:VAL:HG23	2.17	0.44
54:m8:122:ILE:HG22	54:m8:123:THR:O	2.18	0.44
55:m9:35:ALA:O	55:m9:36:ASN:ND2	2.50	0.44
61:n5:40:LEU:HD13	61:n5:40:LEU:HA	1.82	0.44
61:n5:108:LEU:HD22	61:n5:108:LEU:HA	1.66	0.44
62:n6:52:ARG:HB3	62:n6:52:ARG:HH11	1.81	0.44
63:n7:81:LEU:HD22	63:n7:81:LEU:HA	1.63	0.44
63:n7:136:PHE:CE1	70:o4:89:ILE:HG12	2.52	0.44
72:o6:45:ARG:HH22	72:o6:54:GLU:CD	2.25	0.44
72:o6:58:ILE:HG22	72:o6:90:MET:CG	2.47	0.44
78:q2:74:CYS:HB3	78:q2:77:CYS:SG	2.58	0.44
1:2:93:A:H4'	1:2:94:U:OP2	2.17	0.44
1:2:230:C:H2'	1:2:231:U:H5"	1.99	0.44
1:2:1207:C:N4	1:2:1456:C:H5	2.16	0.44
1:2:1281:G:O3'	22:D0:76:SER:OG	2.35	0.44
1:2:1341:A:H1'	34:SR:65:SER:OG	2.17	0.44
1:2:1634:C:O2	92:2:2242:OHX:N1	2.49	0.44
1:2:1684:U:O2	1:2:1718:G:N2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:71:HIS:CG	9:S7:131:PHE:CZ	3.05	0.44
14:C2:56:GLU:HB3	14:C2:124:LYS:HG2	1.99	0.44
18:C6:113:ASP:HA	18:C6:116:LEU:HD23	2.00	0.44
25:D3:27:ASN:O	25:D3:31:LYS:HG2	2.16	0.44
31:D9:6:VAL:HG23	31:D9:7:TRP:CZ3	2.52	0.44
34:SR:198:ASN:O	34:SR:215:GLY:HA3	2.17	0.44
34:SR:295:SER:HB2	34:SR:300:THR:HB	1.99	0.44
36:1:650:C:O2'	36:1:651:G:H5'	2.16	0.44
36:1:706:A:H4'	36:1:781:G:O2'	2.17	0.44
36:1:999:G:C6	36:1:1000:C:N4	2.85	0.44
36:1:1560:G:C2'	36:1:1561:G:H5'	2.47	0.44
36:1:1763:U:H3'	36:1:1764:U:C5	2.52	0.44
36:1:2620:G:H2'	36:1:2621:G:H8	1.82	0.44
36:1:2839:G:O6	36:1:2845:A:O2'	2.27	0.44
36:1:3326:G:C4	36:1:3327:G:C8	3.05	0.44
39:L2:180:LEU:HD23	39:L2:180:LEU:HA	1.82	0.44
41:L4:140:HIS:HA	41:L4:177:ASP:OD1	2.17	0.44
52:M6:65:ASN:OD1	52:M6:67:THR:HB	2.17	0.44
56:N0:83:SER:N	56:N0:86:GLY:O	2.45	0.44
64:N8:65:GLN:H	64:N8:65:GLN:HG2	1.60	0.44
71:O5:9:LEU:HD13	71:O5:54:VAL:HA	1.99	0.44
1:6:121:U:O2'	6:s4:33:ALA:O	2.22	0.44
1:6:443:C:OP2	26:d4:105:ARG:HB2	2.17	0.44
1:6:901:G:N2	16:c4:54:GLU:OE1	2.50	0.44
2:s0:88:LYS:O	2:s0:92:HIS:ND1	2.36	0.44
6:s4:120:SER:O	6:s4:164:LEU:HB2	2.16	0.44
8:s6:25:ARG:HA	8:s6:28:PHE:CD2	2.53	0.44
80:c0:3:MET:HE3	80:c0:8:ARG:CZ	2.47	0.44
13:c1:75:VAL:HB	13:c1:120:GLY:O	2.16	0.44
18:c6:26:LYS:HB2	18:c6:26:LYS:HE3	1.74	0.44
19:c7:50:ILE:O	19:c7:54:THR:HG23	2.18	0.44
36:5:650:C:O5'	36:5:650:C:H6	2.00	0.44
36:5:700:C:OP1	49:m3:65:TYR:OH	2.22	0.44
36:5:1235:U:H4'	36:5:1236:G:C5'	2.43	0.44
36:5:1408:G:P	68:o2:33:ARG:HH22	2.40	0.44
36:5:1796:G:H5"	39:l2:22:LEU:HD22	1.99	0.44
36:5:2599:U:H2'	36:5:2600:C:H6	1.81	0.44
40:l3:188:ILE:H	40:l3:188:ILE:HD12	1.83	0.44
40:l3:255:TRP:CD1	40:l3:256:HIS:CD2	3.05	0.44
46:l9:45:PHE:CD1	46:l9:55:VAL:HG13	2.53	0.44
47:m0:55:ASN:HB3	47:m0:162:GLN:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:m1:109:HIS:N	48:m1:123:PHE:O	2.50	0.44
49:m3:9:ILE:HD11	64:n8:45:MET:HE1	1.99	0.44
50:m4:134:ALA:O	50:m4:136:ALA:N	2.49	0.44
57:n1:160:ILE:HD12	57:n1:160:ILE:HA	1.78	0.44
62:n6:100:HIS:CD2	62:n6:101:PRO:HD2	2.51	0.44
63:n7:28:PRO:O	63:n7:29:HIS:C	2.58	0.44
64:n8:73:LEU:O	64:n8:112:ILE:HA	2.18	0.44
67:o1:82:GLU:O	67:o1:83:GLU:C	2.60	0.44
71:o5:28:LEU:O	71:o5:32:LYS:HG3	2.17	0.44
78:q2:73:GLU:OE1	78:q2:80:ARG:NH1	2.49	0.44
1:2:43:A:H1'	1:2:378:A:N3	2.32	0.44
1:2:1151:A:H2'	1:2:1152:A:H8	1.82	0.44
1:2:1594:G:H5'	31:D9:33:LYS:HE3	2.00	0.44
3:S1:181:LEU:H	3:S1:181:LEU:HD13	1.81	0.44
4:S2:74:PRO:C	4:S2:76:LEU:H	2.26	0.44
4:S2:118:ALA:HB3	4:S2:124:ALA:HB2	2.00	0.44
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.50	0.44
9:S7:35:LYS:NZ	9:S7:39:ARG:HD2	2.32	0.44
10:S8:9:HIS:CD2	10:S8:10:LYS:HB2	2.52	0.44
27:D5:70:LYS:HA	27:D5:70:LYS:HD3	1.66	0.44
28:D6:62:TYR:CG	28:D6:63:ALA:N	2.85	0.44
34:SR:273:ASP:CG	34:SR:275:ARG:HH22	2.25	0.44
35:SM:82:THR:HB	35:SM:83:LYS:H	1.46	0.44
36:1:959:C:H41	36:1:2801:A:H5"	1.83	0.44
36:1:1951:C:H5'	36:1:1952:G:OP1	2.17	0.44
36:1:2799:A:H5"	36:1:2800:G:O5'	2.17	0.44
36:1:2960:C:H2'	36:1:2961:G:C8	2.52	0.44
39:L2:44:ILE:CD1	39:L2:62:VAL:HB	2.47	0.44
40:L3:41:VAL:CB	40:L3:185:GLY:HA3	2.47	0.44
40:L3:239:PRO:O	40:L3:242:THR:HG23	2.17	0.44
41:L4:62:ALA:HB3	41:L4:90:PHE:CE2	2.53	0.44
43:L6:60:ASP:OD1	43:L6:62:THR:OG1	2.34	0.44
49:M3:46:ILE:HD13	49:M3:46:ILE:HA	1.68	0.44
49:M3:124:ILE:O	49:M3:124:ILE:HG12	2.15	0.44
55:M9:104:ARG:NH2	55:M9:105:LEU:HB2	2.30	0.44
57:N1:14:MET:HE2	57:N1:14:MET:HB3	1.54	0.44
61:N5:92:LYS:HD2	61:N5:112:THR:HG23	1.99	0.44
62:N6:60:ARG:HD3	62:N6:60:ARG:HA	1.65	0.44
64:N8:74:ASN:CG	64:N8:115:LYS:HB2	2.43	0.44
1:6:17:C:O2'	1:6:1137:A:N1	2.45	0.44
1:6:248:U:OP1	92:6:2218:OHX:N3	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:333:A:C8	10:s8:49:ARG:HD3	2.53	0.44
1:6:542:A:C8	1:6:543:C:H5'	2.52	0.44
1:6:577:G:H3'	1:6:577:G:C8	2.52	0.44
1:6:765:G:C5	11:s9:149:ARG:HD2	2.52	0.44
1:6:830:U:H2'	1:6:831:U:H5'	1.99	0.44
1:6:980:G:H4'	1:6:1776:A:H4'	1.99	0.44
1:6:1268:G:H1'	1:6:1448:G:H5"	1.99	0.44
1:6:1330:G:H2'	1:6:1331:A:O4'	2.17	0.44
1:6:1333:C:C4'	5:s3:162:GLN:HG3	2.48	0.44
1:6:1383:G:OP1	22:d0:89:ARG:NH2	2.48	0.44
5:s3:7:LYS:HE3	22:d0:27:THR:HG21	1.99	0.44
6:s4:192:ILE:HD13	6:s4:238:LEU:HD22	1.98	0.44
7:s5:128:ASN:O	7:s5:132:VAL:HG23	2.17	0.44
9:s7:28:GLU:CD	9:s7:35:LYS:HG2	2.43	0.44
10:s8:106:ALA:HB2	10:s8:165:LEU:HG	1.99	0.44
11:s9:172:VAL:HG13	11:s9:175:ARG:HH21	1.83	0.44
82:c5:110:GLU:H	82:c5:110:GLU:CD	2.23	0.44
22:d0:96:PRO:HB2	22:d0:97:VAL:H	1.58	0.44
23:d1:56:SER:O	23:d1:60:ARG:HG3	2.17	0.44
36:5:1109:U:H2'	36:5:1110:U:O4'	2.17	0.44
36:5:1620:U:H2'	36:5:1621:A:C8	2.52	0.44
36:5:2572:C:O2'	36:5:2573:G:OP2	2.26	0.44
36:5:2724:U:H4'	57:n1:54:HIS:NE2	2.32	0.44
36:5:2960:C:H2'	36:5:2961:G:C8	2.53	0.44
36:5:3314:A:OP1	40:l3:174:LYS:N	2.40	0.44
36:5:3325:G:H5'	67:o1:104:LEU:O	2.17	0.44
38:8:67:U:H5"	73:o7:85:LYS:HB2	1.99	0.44
40:l3:68:HIS:CD2	40:l3:69:LYS:HG3	2.52	0.44
88:p0:56:ASN:HB3	88:p0:60:ARG:NH2	2.32	0.44
1:2:109:G:N2	1:2:305:C:N3	2.57	0.44
1:2:135:A:H4'	1:2:136:C:OP1	2.18	0.44
1:2:646:C:H2'	1:2:647:G:C8	2.53	0.44
1:2:1017:U:H2'	1:2:1018:U:H6	1.81	0.44
1:2:1339:C:O2'	1:2:1341:A:C8	2.64	0.44
1:2:1486:G:H1'	1:2:1592:A:O2'	2.18	0.44
1:2:1756[A]:A:H8	1:2:1756[A]:A:OP2	1.99	0.44
5:S3:94:ARG:NH2	35:SM:134:LEU:HD23	2.31	0.44
8:S6:122:GLU:C	8:S6:124:LEU:H	2.26	0.44
12:C0:12:HIS:CD2	12:C0:79:TYR:HD2	2.36	0.44
13:C1:20:PHE:CD2	13:C1:21:ASN:N	2.85	0.44
14:C2:60:VAL:O	14:C2:89:ILE:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:68:ARG:HD2	22:D0:79:TRP:CE2	2.53	0.44
31:D9:10:HIS:CG	31:D9:11:PRO:HD2	2.52	0.44
36:1:1225:A:C2	36:1:3116:G:C5	3.06	0.44
36:1:1273:A:HO2'	36:1:1274:A:P	2.41	0.44
36:1:1634:G:OP1	63:N7:107:ARG:NH1	2.49	0.44
36:1:2206:G:H8	36:1:2206:G:OP2	2.01	0.44
36:1:2280:A:OP1	92:1:4359:OHX:N5	2.51	0.44
36:1:2616:C:H3'	36:1:2617:U:O2	2.16	0.44
36:1:2796:G:H4'	36:1:2798:C:C6	2.53	0.44
36:1:2922:G:H1'	36:1:2951:G:N3	2.33	0.44
36:1:3040:A:H5"	59:N3:12:ARG:HB2	2.00	0.44
40:L3:334:ARG:O	40:L3:336:VAL:HG23	2.18	0.44
42:L5:178:ASN:HA	42:L5:183:TRP:CD2	2.53	0.44
45:L8:140:VAL:HG22	45:L8:166:LEU:HD21	1.98	0.44
50:M4:48:GLY:HA3	50:M4:53:VAL:HG13	1.99	0.44
55:M9:11:ALA:O	55:M9:15:VAL:HG23	2.17	0.44
60:N4:9:SER:HB2	60:N4:51:TRP:CZ3	2.52	0.44
62:N6:6:LEU:HA	62:N6:6:LEU:HD23	1.56	0.44
71:O5:4:VAL:CG1	71:O5:9:LEU:HD11	2.47	0.44
1:6:95:G:H5'	1:6:96:G:OP2	2.17	0.44
1:6:279:G:C6	1:6:281:G:C5	3.05	0.44
1:6:323:A:OP2	10:s8:10:LYS:HG3	2.16	0.44
1:6:765:G:N7	11:s9:82:ARG:NH1	2.64	0.44
1:6:773:C:OP1	6:s4:22:LYS:N	2.50	0.44
1:6:924:A:H2'	1:6:925:G:C8	2.51	0.44
1:6:973:A:C2	1:6:974:A:C5	3.04	0.44
1:6:1742:U:H2'	1:6:1743:U:H6	1.82	0.44
3:s1:197:ILE:HG22	3:s1:210:ILE:HD13	1.99	0.44
13:c1:76:VAL:HG12	13:c1:85:VAL:O	2.18	0.44
32:e0:14:VAL:O	32:e0:18:THR:HG23	2.17	0.44
33:e1:96:LYS:O	33:e1:97:LYS:HB3	2.17	0.44
36:5:173:G:H1'	36:5:174:C:H5'	2.00	0.44
36:5:284:A:H4'	36:5:285:A:N3	2.32	0.44
36:5:994:G:N2	36:5:1053:A:H2'	2.33	0.44
36:5:2109:U:O2'	36:5:2110:G:H5'	2.17	0.44
36:5:3009:G:O2'	40:l3:14:LEU:O	2.29	0.44
36:5:3161:C:H2'	36:5:3162:C:C6	2.52	0.44
36:5:3263:G:N7	92:5:4375:OHX:N2	2.65	0.44
40:l3:139:GLN:C	40:l3:141:GLY:N	2.76	0.44
41:l4:93:MET:HE2	41:l4:93:MET:N	2.32	0.44
85:l8:156:ASP:OD2	85:l8:156:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:n6:59:VAL:O	62:n6:64:LYS:HD2	2.17	0.44
63:n7:50:PRO:HD3	63:n7:68:ILE:HG12	2.00	0.44
69:o3:49:ILE:HA	69:o3:99:ARG:O	2.18	0.44
71:o5:54:VAL:HG12	71:o5:58:ILE:HD11	1.99	0.44
76:q0:97:ARG:HG3	76:q0:120:GLN:O	2.18	0.44
1:2:222:A:N6	92:2:2243:OHX:N1	2.66	0.44
1:2:239:C:H3'	1:2:240:U:O4'	2.18	0.44
1:2:240:U:OP1	1:2:240:U:H4'	2.17	0.44
1:2:539:G:OP2	1:2:539:G:C8	2.66	0.44
1:2:1010:C:H2'	1:2:1011:G:O4'	2.17	0.44
1:2:1655:A:N6	1:2:1745:G:O2'	2.47	0.44
3:S1:77:GLU:C	3:S1:79:HIS:H	2.26	0.44
3:S1:131:ASP:O	3:S1:180:THR:HG23	2.17	0.44
4:S2:188:LEU:HD22	4:S2:193:VAL:HG21	1.99	0.44
13:C1:109:VAL:HG21	13:C1:125:VAL:CG2	2.48	0.44
20:C8:36:LYS:HB3	20:C8:105:VAL:HG11	1.99	0.44
25:D3:53:VAL:HG23	25:D3:100:ASP:O	2.18	0.44
30:D8:19:THR:OG1	30:D8:27:GLN:HG3	2.17	0.44
36:1:31:C:H2'	36:1:32:U:O4'	2.17	0.44
36:1:1231:A:H2	36:1:1278:A:N7	2.16	0.44
36:1:1559:A:H4'	36:1:1560:G:OP2	2.17	0.44
36:1:1851:G:P	92:1:4212:OHX:N4	2.90	0.44
36:1:2217:U:H2'	36:1:2218:G:C8	2.53	0.44
36:1:2660:G:O3'	36:1:2749:G:N2	2.50	0.44
36:1:2725:U:O4	92:1:4143:OHX:N2	2.50	0.44
36:1:2875:U:C5	92:1:4446:OHX:N4	2.86	0.44
36:1:2945:G:H8	36:1:2950:G:O6	1.99	0.44
92:1:4105:OHX:N6	92:1:4501:OHX:N6	2.66	0.44
92:1:4124:OHX:N5	92:1:4487:OHX:N5	2.65	0.44
41:L4:302:ALA:HB2	54:M8:39:ARG:CZ	2.48	0.44
42:L5:38:THR:HG22	57:N1:30:TYR:CB	2.47	0.44
44:L7:59:GLU:O	44:L7:63:ILE:HG13	2.17	0.44
45:L8:26:LEU:HD12	45:L8:26:LEU:H	1.82	0.44
45:L8:108:ARG:O	45:L8:112:GLU:HG2	2.18	0.44
45:L8:130:TYR:CE1	45:L8:202:GLU:HB3	2.51	0.44
48:M1:57:PHE:N	48:M1:57:PHE:CD1	2.85	0.44
49:M3:122:LYS:NZ	49:M3:122:LYS:HB3	2.33	0.44
49:M3:174:ARG:NH1	72:O6:9:ILE:HG21	2.33	0.44
50:M4:8:LYS:HB3	50:M4:9:ALA:H	1.56	0.44
55:M9:104:ARG:HE	55:M9:105:LEU:N	2.15	0.44
55:M9:172:ARG:O	55:M9:176:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:45:LEU:HD12	56:N0:51:VAL:CG2	2.48	0.44
57:N1:12:ARG:HD3	57:N1:13:TYR:CZ	2.53	0.44
59:N3:74:MET:HE3	59:N3:102:ILE:HD13	1.99	0.44
64:N8:66:ALA:O	64:N8:67:HIS:C	2.61	0.44
66:O0:17:VAL:HG11	66:O0:92:ILE:HD12	1.99	0.44
67:O1:20:LEU:HD21	67:O1:31:ARG:HB3	2.00	0.44
70:O4:47:CYS:SG	70:O4:81:CYS:SG	3.11	0.44
79:Q3:45:LYS:HG3	79:Q3:45:LYS:O	2.16	0.44
1:6:853:G:H2'	1:6:854:U:C6	2.53	0.44
1:6:1498:G:OP1	21:c9:75:LYS:HD2	2.18	0.44
7:s5:59:VAL:O	7:s5:61:TYR:N	2.50	0.44
19:c7:104:ASN:O	19:c7:106:THR:N	2.46	0.44
20:c8:72:ILE:HA	20:c8:79:TYR:CE2	2.52	0.44
20:c8:134:ARG:O	20:c8:136:GLN:N	2.46	0.44
22:d0:100:VAL:O	22:d0:104:THR:HG23	2.17	0.44
27:d5:57:TYR:CD2	27:d5:57:TYR:N	2.85	0.44
28:d6:87:ARG:NH2	28:d6:94:ASN:O	2.43	0.44
83:sR:29:GLN:H	83:sR:29:GLN:HG2	1.71	0.44
36:5:817:A:H2'	36:5:920:A:C2	2.53	0.44
36:5:986:U:OP2	92:5:4411:OHX:N2	2.49	0.44
36:5:1129:A:H2'	36:5:1130:A:C8	2.53	0.44
36:5:1465:A:H5"	36:5:1466:G:OP2	2.18	0.44
36:5:1748:G:OP1	74:o8:44:LYS:HE2	2.17	0.44
36:5:1804:A:H2'	36:5:1805:C:C6	2.53	0.44
36:5:1815:U:O2'	36:5:1816:A:P	2.76	0.44
39:l2:104:LEU:HD12	39:l2:104:LEU:HA	1.66	0.44
40:l3:323:MET:HE2	40:l3:323:MET:HB3	1.68	0.44
41:l4:290:ILE:HG23	54:m8:35:PHE:CE2	2.52	0.44
41:l4:347:THR:HB	41:l4:349:THR:HG23	1.99	0.44
42:l5:181:PRO:HD2	42:l5:195:LEU:HD13	1.99	0.44
48:m1:151:SER:O	48:m1:152:HIS:HB2	2.18	0.44
49:m3:3:ILE:HG12	64:n8:34:MET:HE2	1.98	0.44
50:m4:113:THR:O	50:m4:117:ARG:HG3	2.17	0.44
57:n1:87:LYS:HB3	57:n1:87:LYS:HE3	1.80	0.44
61:n5:132:ALA:HA	61:n5:135:ILE:CG2	2.45	0.44
68:o2:12:LYS:HD3	68:o2:57:TYR:C	2.43	0.44
70:o4:8:ARG:HH21	70:o4:31:ARG:HH11	1.64	0.44
74:o8:8:ILE:HD12	74:o8:8:ILE:H	1.83	0.44
76:q0:126:LYS:HA	76:q0:126:LYS:HD3	1.81	0.44
88:p0:10:GLU:O	88:p0:13:ALA:HB3	2.16	0.44
1:2:372:G:H1'	1:2:612:U:O2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:386:G:C6	1:2:387:A:N6	2.86	0.44
1:2:1597:A:H2'	1:2:1598:U:H6	1.82	0.44
3:S1:39:GLU:HG3	3:S1:40:ASN:N	2.32	0.44
3:S1:124:ASN:OD1	3:S1:124:ASN:N	2.51	0.44
3:S1:229:MET:HA	3:S1:232:HIS:ND1	2.33	0.44
7:S5:94:THR:O	7:S5:97:LEU:HB2	2.18	0.44
7:S5:149:VAL:O	7:S5:155:ALA:HB1	2.17	0.44
7:S5:222:LYS:HG3	7:S5:225:ARG:CZ	2.47	0.44
15:C3:34:ILE:O	15:C3:38:VAL:HG23	2.17	0.44
28:D6:66:LYS:HD3	28:D6:66:LYS:H	1.83	0.44
36:1:89:A:N6	36:1:98:G:C2	2.86	0.44
36:1:343:U:O2	36:1:1439:U:H1'	2.18	0.44
36:1:825:U:O4	92:1:4170:OHX:N3	2.51	0.44
36:1:848:A:H8	36:1:848:A:O5'	2.01	0.44
36:1:1504:A:C5	36:1:1505:C:C5	3.06	0.44
36:1:1682:U:H4'	36:1:1684:U:O4	2.18	0.44
40:L3:19:ARG:HB3	40:L3:232:ARG:NH1	2.33	0.44
41:L4:238:LEU:HA	41:L4:238:LEU:HD23	1.85	0.44
44:L7:207:LEU:HB3	44:L7:243:MET:HB3	2.00	0.44
47:M0:221:ALA:C	92:M0:308:OHX:N4	2.76	0.44
48:M1:34:SER:HB2	48:M1:67:VAL:HG11	2.00	0.44
61:N5:67:ILE:HD12	61:N5:83:VAL:HG12	1.99	0.44
65:N9:28:LYS:HD3	65:N9:28:LYS:HA	1.66	0.44
72:O6:4:LYS:HA	72:O6:12:ASN:O	2.18	0.44
75:O9:23:LEU:HD22	75:O9:23:LEU:HA	1.83	0.44
1:6:271:A:C2	1:6:285:G:C6	3.06	0.44
1:6:437:A:OP1	92:6:2316:OHX:N6	2.51	0.44
1:6:516:G:OP2	92:6:2198:OHX:N3	2.51	0.44
1:6:763:G:C6	1:6:764:U:C4	3.06	0.44
1:6:1646:C:H2'	1:6:1647:U:C6	2.53	0.44
6:s4:100:ARG:NH2	6:s4:122:LYS:HA	2.33	0.44
6:s4:105:VAL:HB	6:s4:243:GLY:HA2	1.99	0.44
7:s5:68:ILE:HD13	7:s5:69:PHE:N	2.33	0.44
9:s7:63:PRO:C	9:s7:65:PRO:HD2	2.42	0.44
9:s7:102:PRO:HA	9:s7:106:SER:O	2.17	0.44
10:s8:10:LYS:HG2	13:c1:133:LYS:HE3	1.99	0.44
11:s9:52:ILE:HG23	11:s9:76:LEU:HD11	1.99	0.44
16:c4:81:VAL:HG22	16:c4:115:ILE:HG23	1.99	0.44
36:5:283:G:O6	36:5:304:G:H1'	2.17	0.44
36:5:550:A:H2'	36:5:551:A:C8	2.52	0.44
36:5:597:G:OP1	44:l7:37:ASN:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1184:A:O2'	36:5:1185:C:H5'	2.18	0.44
36:5:1648:A:H2'	36:5:1649:U:O4'	2.18	0.44
36:5:1869:C:H6	36:5:1869:C:O5'	2.01	0.44
36:5:1908:A:H2'	36:5:1909:A:O4'	2.17	0.44
36:5:1932:A:H5'	36:5:1933:A:OP2	2.18	0.44
36:5:2897:A:H5"	76:q0:125:LYS:HG3	2.00	0.44
36:5:2947:G:N2	36:5:2948:C:C2	2.86	0.44
36:5:3113:A:H1'	46:l9:70:THR:HG22	1.98	0.44
41:l4:219:LEU:O	41:l4:222:VAL:HG13	2.18	0.44
41:l4:258:LEU:HD12	41:l4:258:LEU:HA	1.89	0.44
42:l5:39:GLN:HE21	42:l5:46:THR:HG22	1.82	0.44
42:l5:222:LEU:HD23	42:l5:222:LEU:HA	1.81	0.44
44:l7:173:LEU:HB3	44:l7:178:ILE:HB	1.99	0.44
85:l8:231:LYS:HE3	85:l8:231:LYS:HB2	1.75	0.44
50:m4:32:LEU:HD11	50:m4:94:TRP:CG	2.51	0.44
51:m5:73:ARG:HD2	51:m5:88:GLY:O	2.18	0.44
56:n0:19:VAL:O	56:n0:22:PRO:HD3	2.17	0.44
59:n3:13:ILE:HG12	59:n3:53:SER:HB2	1.98	0.44
87:n4:127:LYS:O	87:n4:131:ALA:N	2.46	0.44
63:n7:27:LYS:HD2	63:n7:27:LYS:HA	1.82	0.44
73:o7:39:TYR:CG	73:o7:40:PRO:HA	2.53	0.44
1:2:2:A:O2'	4:S2:198:THR:O	2.35	0.44
1:2:380:U:H5	11:S9:5:PRO:HB3	1.81	0.44
1:2:605:A:OP2	1:2:606:A:O2'	2.29	0.44
1:2:702:G:O6	1:2:737:A:N6	2.51	0.44
1:2:717:C:H2'	1:2:718:U:H5"	1.99	0.44
1:2:832:U:H2'	1:2:833:U:O4'	2.17	0.44
1:2:927:C:H2'	1:2:928:U:C6	2.52	0.44
1:2:1003:A:C4	1:2:1005:A:C6	3.06	0.44
1:2:1234:A:H1'	33:E1:140:TYR:OH	2.18	0.44
1:2:1649:G:H2'	1:2:1650:U:C6	2.53	0.44
3:S1:49:ASN:O	3:S1:57:ALA:HB2	2.17	0.44
4:S2:90:THR:HG23	4:S2:92:ALA:H	1.83	0.44
4:S2:140:ARG:HD3	4:S2:222:TYR:CZ	2.52	0.44
5:S3:15:GLY:HA3	31:D9:50:ILE:O	2.17	0.44
12:C0:49:LEU:O	12:C0:54:TYR:HB2	2.18	0.44
14:C2:36:LEU:HD11	14:C2:101:ALA:O	2.17	0.44
15:C3:84:ILE:HG22	15:C3:135:LEU:HD21	2.00	0.44
19:C7:27:ASP:OD2	19:C7:30:THR:HG23	2.18	0.44
20:C8:31:ALA:O	20:C8:34:THR:HG23	2.17	0.44
22:D0:69:LYS:HE2	22:D0:80:GLU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:84:LYS:HD2	26:D4:85:PHE:CE2	2.52	0.44
31:D9:31:ILE:HD13	31:D9:31:ILE:HA	1.72	0.44
36:1:361:A:C2	36:1:928:C:O4'	2.70	0.44
36:1:643:U:O2'	36:1:1153:A:N1	2.44	0.44
36:1:1277:C:O2'	36:1:1278:A:H8	1.97	0.44
36:1:1481:A:H2'	36:1:1481:A:N3	2.32	0.44
36:1:1782:U:H2'	36:1:1783:U:O4'	2.18	0.44
36:1:1937:U:O4	92:1:4481:OHX:N5	2.50	0.44
36:1:2383:C:H5'	52:M6:71:PHE:HE2	1.83	0.44
36:1:2652:U:O2	92:1:4448:OHX:N3	2.51	0.44
36:1:2700:G:OP1	57:N1:17:ARG:HB2	2.18	0.44
36:1:2874:G:N2	92:1:4446:OHX:N5	2.65	0.44
92:1:4124:OHX:N1	92:1:4487:OHX:N1	2.66	0.44
38:4:19:C:H2'	38:4:20:U:O4'	2.18	0.44
38:4:62:C:H4'	38:4:63:G:O5'	2.18	0.44
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	2.00	0.44
45:L8:67:ILE:HG23	45:L8:237:ILE:HD12	1.99	0.44
45:L8:153:ILE:O	45:L8:180:VAL:HG23	2.18	0.44
47:M0:74:LYS:O	47:M0:78:THR:HG23	2.18	0.44
49:M3:25:HIS:O	51:M5:201:ARG:HD2	2.18	0.44
57:N1:13:TYR:O	92:N1:202:OHX:N5	2.51	0.44
59:N3:68:GLU:CD	59:N3:68:GLU:H	2.25	0.44
68:O2:67:SER:HB2	68:O2:68:PRO:HD2	1.99	0.44
70:O4:86:LYS:O	70:O4:90:ILE:HG12	2.17	0.44
1:6:399:A:H4'	6:s4:3:ARG:HG2	1.99	0.44
1:6:959:U:C2	15:c3:17:PRO:HG3	2.52	0.44
2:s0:185:ARG:HB3	2:s0:186:GLY:H	1.60	0.44
4:s2:170:ILE:HB	4:s2:197:TYR:HB2	2.00	0.44
5:s3:138:VAL:HA	5:s3:183:GLY:O	2.18	0.44
81:c2:28:LEU:HD22	81:c2:32:LEU:HG	2.00	0.44
22:d0:41:ILE:HG12	22:d0:103:ILE:HD12	1.98	0.44
24:d2:55:ASP:HB3	29:d7:25:VAL:HG22	1.99	0.44
29:d7:59:CYS:O	29:d7:60:SER:C	2.61	0.44
83:sR:248:ASN:HD21	83:sR:298:GLY:HA3	1.82	0.44
36:5:72:C:C2	36:5:74:G:H1'	2.53	0.44
36:5:739:G:O6	92:5:4222:OHX:N6	2.51	0.44
36:5:770:G:OP1	49:m3:171:ARG:HD3	2.18	0.44
36:5:916:G:C2	36:5:924:G:O4'	2.71	0.44
36:5:956:U:H2'	36:5:957:C:C6	2.52	0.44
36:5:1093:A:N3	36:5:1096:U:N3	2.65	0.44
36:5:2882:U:H2'	36:5:2883:U:H6	1.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2950:G:N7	92:5:4409:OHX:N1	2.66	0.44
36:5:3263:G:H2'	36:5:3264:G:H8	1.83	0.44
37:7:110:G:C6	37:7:111:U:C4	3.06	0.44
42:l5:110:LEU:HD13	42:l5:171:LEU:HD23	1.98	0.44
47:m0:74:LYS:HB2	47:m0:74:LYS:HZ2	1.82	0.44
47:m0:129:VAL:HG12	47:m0:130:ASP:N	2.33	0.44
48:m1:10:ARG:HA	48:m1:134:PRO:HD2	1.99	0.44
48:m1:94:ARG:C	48:m1:96:PHE:N	2.76	0.44
50:m4:32:LEU:HD11	50:m4:94:TRP:CD1	2.53	0.44
52:m6:172:ARG:HA	52:m6:175:THR:HG23	1.99	0.44
53:m7:67:ILE:HB	53:m7:80:LYS:HG2	2.00	0.44
59:n3:18:PRO:HA	59:n3:51:ALA:HA	2.00	0.44
1:2:534:A:C5	1:2:535:A:C8	3.06	0.44
1:2:577:G:H8	1:2:577:G:H3'	1.83	0.44
1:2:636:A:C2	1:2:861:U:C2	3.06	0.44
1:2:1324:G:OP2	92:2:2130:OHX:N1	2.50	0.44
1:2:1494:C:H2'	1:2:1495:C:C6	2.53	0.44
3:S1:35:PRO:O	3:S1:41:ARG:NE	2.50	0.44
3:S1:70:LEU:HD13	3:S1:71:ALA:N	2.33	0.44
3:S1:81:PHE:HD2	3:S1:82:ARG:HG3	1.82	0.44
3:S1:81:PHE:HB2	3:S1:82:ARG:H	1.61	0.44
3:S1:101:HIS:C	3:S1:217:LEU:HD13	2.43	0.44
4:S2:121:VAL:O	4:S2:125:ILE:HG13	2.18	0.44
7:S5:45:LYS:HA	7:S5:45:LYS:HD3	1.56	0.44
9:S7:151:LYS:HB2	9:S7:151:LYS:HE3	1.77	0.44
10:S8:29:LEU:HD23	10:S8:29:LEU:C	2.43	0.44
27:D5:65:LEU:HB3	27:D5:71:ILE:HD13	2.00	0.44
29:D7:37:CYS:O	29:D7:39:GLY:N	2.50	0.44
36:1:208:C:C2'	36:1:209:A:H5'	2.47	0.44
36:1:744:A:H4'	54:M8:142:GLY:O	2.18	0.44
36:1:818:C:C2	36:1:920:A:H5'	2.52	0.44
36:1:916:G:H5'	36:1:917:A:OP1	2.18	0.44
36:1:955:U:H2'	36:1:956:U:C6	2.53	0.44
36:1:1306:G:C6	52:M6:62:THR:HA	2.53	0.44
36:1:1378:U:OP1	92:1:4187:OHX:N6	2.51	0.44
36:1:1438:U:H5"	41:L4:74:ILE:HD11	1.99	0.44
36:1:1554:U:C2	36:1:1555:U:C5	3.05	0.44
36:1:1789:G:N7	92:1:4420:OHX:N2	2.66	0.44
36:1:1796:G:H5"	36:1:1797:A:OP1	2.18	0.44
36:1:2168:A:C6	36:1:2170:U:H1'	2.53	0.44
36:1:2501:U:H4'	36:1:2502:A:OP1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2536:A:H2'	36:1:2537:U:C5	2.53	0.44
36:1:2765:C:O3'	78:Q2:39:GLY:HA3	2.18	0.44
39:L2:204:MET:CE	39:L2:209:HIS:HB2	2.48	0.44
40:L3:56:ILE:HD13	40:L3:76:VAL:HG21	2.00	0.44
40:L3:218:ILE:HG12	40:L3:276:THR:HG23	2.00	0.44
40:L3:322:ILE:HD13	40:L3:322:ILE:HA	1.77	0.44
40:L3:339:ARG:HG2	40:L3:340:LYS:O	2.17	0.44
41:L4:62:ALA:HB3	41:L4:90:PHE:HE2	1.83	0.44
41:L4:325:LEU:HA	41:L4:325:LEU:HD23	1.75	0.44
42:L5:30:TYR:HA	42:L5:33:ARG:HB3	2.00	0.44
43:L6:18:LEU:N	43:L6:18:LEU:HD22	2.33	0.44
49:M3:64:LYS:HG3	64:N8:69:TRP:CD1	2.53	0.44
49:M3:172:LEU:HD23	49:M3:172:LEU:HA	1.81	0.44
50:M4:109:ARG:HD3	52:M6:199:TYR:CZ	2.53	0.44
1:6:83:G:O6	92:6:2318:OHX:N3	2.51	0.44
1:6:1019:A:OP2	15:c3:107:LYS:NZ	2.50	0.44
1:6:1234:A:O2'	33:e1:146:SER:HB3	2.18	0.44
1:6:1541:G:C5	1:6:1542:G:C6	3.06	0.44
1:6:1568:C:H4'	1:6:1569:A:O5'	2.16	0.44
2:s0:115:PHE:CZ	2:s0:117:GLU:HG3	2.53	0.44
6:s4:46:VAL:O	6:s4:50:ASN:HB2	2.18	0.44
10:s8:38:ILE:HA	10:s8:60:ILE:O	2.18	0.44
10:s8:61:GLU:O	10:s8:62:THR:OG1	2.25	0.44
11:s9:36:LEU:HA	11:s9:36:LEU:HD23	1.82	0.44
11:s9:134:ILE:HD12	11:s9:134:ILE:N	2.33	0.44
11:s9:171:ARG:NH1	11:s9:174:ARG:HD3	2.33	0.44
13:c1:83:THR:HA	13:c1:111:VAL:HG12	2.00	0.44
83:sR:25:THR:HG21	83:sR:295:SER:HA	1.99	0.44
36:5:96:G:OP1	49:m3:15:ARG:NH2	2.50	0.44
36:5:800:G:H2'	36:5:801:A:N7	2.32	0.44
36:5:886:C:O2'	36:5:887:G:H5'	2.18	0.44
36:5:1157:G:C2	36:5:1158:A:H1'	2.53	0.44
36:5:1338:C:H2'	36:5:1339:C:H6	1.82	0.44
36:5:1355:A:H4'	36:5:1356:U:O5'	2.17	0.44
36:5:1407:A:O3'	68:o2:33:ARG:NH2	2.50	0.44
36:5:1807:G:C6	36:5:1808:G:N1	2.85	0.44
36:5:2620:G:O6	92:5:4385:OHX:N4	2.51	0.44
36:5:2816:G:C8	36:5:2869:U:H3'	2.51	0.44
92:5:4436:OHX:N5	38:8:16:G:OP1	2.51	0.44
38:8:106:C:O2'	92:8:235:OHX:N5	2.51	0.44
44:l7:108:LEU:HD21	44:l7:115:THR:HG23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:137:SER:CB	46:l9:140:VAL:HG13	2.47	0.44
54:m8:8:LYS:HE3	54:m8:8:LYS:HB2	1.89	0.44
56:n0:166:LYS:HG3	56:n0:167:ARG:N	2.31	0.44
62:n6:75:ARG:C	62:n6:77:LYS:H	2.26	0.44
65:n9:15:LYS:HB3	65:n9:15:LYS:HE2	1.89	0.44
67:o1:76:SER:HB2	67:o1:78:LYS:HE3	1.98	0.44
68:o2:3:SER:HB3	68:o2:71:HIS:NE2	2.32	0.44
1:2:66:U:H5'	8:S6:172:ALA:O	2.18	0.44
1:2:1064:G:H2'	1:2:1065:A:C8	2.53	0.44
1:2:1323:C:H2'	1:2:1324:G:O4'	2.18	0.44
1:2:1366:U:O2'	21:C9:7:ARG:HD2	2.17	0.44
1:2:1486:G:N1	92:2:2105:OHX:N2	2.66	0.44
2:S0:142:PRO:HB3	23:D1:34:ILE:CD1	2.48	0.44
2:S0:157:ASP:HB3	23:D1:69:LEU:HD12	1.99	0.44
2:S0:185:ARG:CB	23:D1:45:ALA:H	2.30	0.44
3:S1:181:LEU:O	3:S1:182:ALA:C	2.61	0.44
6:S4:31:PRO:HB2	6:S4:38:LEU:HD22	1.99	0.44
6:S4:73:ASP:CG	6:S4:122:LYS:HZ2	2.18	0.44
6:S4:140:VAL:HA	6:S4:145:ARG:O	2.18	0.44
8:S6:39:GLU:HA	8:S6:42:GLY:O	2.17	0.44
9:S7:91:ILE:HA	9:S7:91:ILE:HD12	1.72	0.44
17:C5:80:MET:SD	17:C5:83:MET:HE2	2.58	0.44
20:C8:97:ASP:OD2	92:C8:203:OHX:N4	2.51	0.44
25:D3:76:LEU:O	25:D3:80:GLY:N	2.47	0.44
26:D4:84:LYS:HD2	26:D4:85:PHE:CZ	2.53	0.44
34:SR:43:ILE:HD13	34:SR:60:SER:HA	2.00	0.44
36:1:410:U:O4	92:1:4290:OHX:N5	2.51	0.44
36:1:849:C:H2'	36:1:850:U:C6	2.52	0.44
36:1:1233:G:H1	36:1:1255:C:N4	1.98	0.44
36:1:1364:C:H4'	54:M8:9:GLN:NE2	2.33	0.44
36:1:1508:C:OP1	36:1:2354:C:O2'	2.34	0.44
36:1:2651:G:C4	36:1:2796:G:C2	3.06	0.44
36:1:2652:U:C5	36:1:2653:C:C5	3.06	0.44
36:1:3276:G:H5'	43:L6:48:ARG:NH2	2.33	0.44
40:L3:135:ALA:O	40:L3:137:TYR:N	2.51	0.44
41:L4:174:ALA:O	41:L4:178:LEU:HG	2.17	0.44
42:L5:183:TRP:CH2	42:L5:188:GLU:HA	2.53	0.44
42:L5:216:GLU:HA	42:L5:219:PHE:HB3	2.00	0.44
42:L5:279:LYS:HE3	42:L5:282:ARG:HH12	1.82	0.44
43:L6:65:ILE:CD1	43:L6:77:ARG:HB3	2.48	0.44
44:L7:96:PRO:O	44:L7:100:ARG:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:103:ILE:HD11	46:L9:134:ILE:HG22	2.00	0.44
52:M6:51:LYS:HE2	52:M6:144:SER:OG	2.18	0.44
63:N7:68:ILE:O	63:N7:115:LYS:HE2	2.17	0.44
69:O3:13:HIS:HE2	69:O3:28:SER:HG	1.60	0.44
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	1.99	0.44
1:6:827:C:H2'	1:6:828:U:C6	2.52	0.44
1:6:916:U:H5"	1:6:917:U:OP2	2.18	0.44
1:6:1006:C:OP1	92:6:2148:OHX:N4	2.51	0.44
1:6:1198:G:O2'	22:d0:72:ASN:HA	2.18	0.44
2:s0:24:LEU:HD21	2:s0:41:ARG:HH12	1.83	0.44
2:s0:59:LEU:HD12	23:d1:79:LEU:HD21	1.98	0.44
4:s2:41:LEU:O	4:s2:45:VAL:HG23	2.18	0.44
5:s3:90:ARG:HD3	5:s3:91:VAL:HG22	2.00	0.44
7:s5:112:ARG:HD2	18:c6:43:ILE:HD12	2.00	0.44
7:s5:203:LYS:O	7:s5:205:SER:N	2.51	0.44
11:s9:116:LEU:O	11:s9:118:LEU:HD12	2.18	0.44
82:c5:85:ILE:HD11	82:c5:116:LEU:HD23	2.00	0.44
82:c5:124:THR:O	82:c5:125:PRO:C	2.60	0.44
19:c7:34:LEU:HD23	19:c7:34:LEU:HA	1.81	0.44
24:d2:106:THR:HG22	24:d2:122:SER:C	2.43	0.44
83:sR:101:GLN:HG2	83:sR:137:LYS:C	2.43	0.44
36:5:68:C:O3'	51:m5:177:GLY:HA2	2.17	0.44
36:5:781:G:C2	36:5:782:U:C6	3.06	0.44
36:5:1345:G:N2	36:5:1360:C:C2	2.86	0.44
36:5:1795:U:H2'	39:l2:50:HIS:CD2	2.52	0.44
36:5:2101:C:HO2'	36:5:2102:U:P	2.39	0.44
36:5:2425:G:H2'	36:5:2426:U:O4'	2.17	0.44
36:5:2550:U:C6	85:l8:37:GLY:HA3	2.53	0.44
36:5:2713:U:H3'	78:q2:9:LYS:O	2.18	0.44
36:5:3378:C:H2'	36:5:3379:C:C6	2.53	0.44
50:m4:120:VAL:O	50:m4:124:ARG:HB2	2.18	0.44
52:m6:18:ARG:O	52:m6:22:VAL:HG13	2.18	0.44
64:n8:14:HIS:N	64:n8:14:HIS:ND1	2.66	0.44
73:o7:84:SER:O	73:o7:85:LYS:HB3	2.18	0.44
89:p1:34:UNK:C	89:p1:36:UNK:N	2.81	0.44
1:2:452:A:H3'	1:2:453:U:C5	2.53	0.43
1:2:631:G:H2'	1:2:632:U:C6	2.53	0.43
1:2:651:G:C2	1:2:684:A:C6	3.06	0.43
1:2:715:U:H3	1:2:723:G:H1	1.64	0.43
1:2:1165:G:O6	1:2:1166:A:N6	2.50	0.43
1:2:1199:G:O6	22:D0:67:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1399:C:O2'	1:2:1400:A:OP2	2.35	0.43
1:2:1469:A:H4'	1:2:1541:G:H4'	2.00	0.43
1:2:1615:C:O2'	1:2:1616:G:OP2	2.32	0.43
1:2:1647:U:O2	32:E0:2:ALA:HA	2.18	0.43
2:S0:193:GLN:O	2:S0:195:TRP:N	2.50	0.43
3:S1:78:ASP:O	3:S1:79:HIS:ND1	2.51	0.43
7:S5:143:ARG:HD3	30:D8:55:VAL:HG11	2.00	0.43
9:S7:67:LEU:HA	9:S7:67:LEU:HD23	1.62	0.43
11:S9:110:GLN:HE22	11:S9:126:ARG:CG	2.27	0.43
13:C1:95:PRO:O	13:C1:96:LYS:C	2.61	0.43
15:C3:99:ARG:O	15:C3:103:GLU:HG2	2.18	0.43
15:C3:142:GLU:HG3	15:C3:145:THR:CG2	2.48	0.43
17:C5:57:MET:HE1	17:C5:89:MET:HE3	1.99	0.43
20:C8:38:VAL:HG12	20:C8:42:TYR:CD2	2.53	0.43
25:D3:69:ARG:NH1	25:D3:116:ASP:CG	2.76	0.43
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	2.00	0.43
34:SR:19:TRP:CD2	34:SR:306:THR:HG22	2.53	0.43
34:SR:283:LYS:HB2	34:SR:283:LYS:HE3	1.73	0.43
36:1:215:G:OP1	62:N6:12:ARG:HG3	2.18	0.43
36:1:407:A:C2	38:4:17:A:H1'	2.53	0.43
36:1:718:G:H8	36:1:718:G:OP2	2.01	0.43
36:1:803:C:O2'	41:L4:92:ASN:OD1	2.32	0.43
36:1:975:C:H2'	36:1:976:U:C6	2.53	0.43
36:1:1095:U:H4'	36:1:1096:U:H5"	2.00	0.43
36:1:1765:U:OP1	36:1:1765:U:H4'	2.18	0.43
36:1:3317:U:H6	92:1:4257:OHX:N3	2.16	0.43
36:1:3355:U:H3'	36:1:3356:G:C5'	2.48	0.43
92:1:4477:OHX:N4	38:4:140:G:OP1	2.51	0.43
37:3:47:C:O2'	37:3:48:U:H5'	2.17	0.43
38:4:68:G:P	92:O7:107:OHX:N6	2.91	0.43
41:L4:4:PRO:O	41:L4:5:GLN:HB2	2.17	0.43
44:L7:25:GLN:HG2	44:L7:29:GLU:HB2	2.00	0.43
55:M9:114:LYS:HE2	55:M9:114:LYS:HB3	1.90	0.43
58:N2:82:LYS:HE2	58:N2:82:LYS:HB2	1.77	0.43
59:N3:46:LEU:O	59:N3:47:ASN:HB2	2.17	0.43
66:O0:99:ASP:N	66:O0:99:ASP:OD2	2.49	0.43
67:O1:74:ARG:NH1	67:O1:109:VAL:HG21	2.33	0.43
78:Q2:73:GLU:OE1	78:Q2:80:ARG:NH2	2.46	0.43
1:6:338:C:H2'	1:6:339:C:H6	1.82	0.43
1:6:678:A:H2'	1:6:679:U:O4'	2.17	0.43
1:6:1091:A:H4'	1:6:1092:A:O5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1153:G:H2'	1:6:1154:G:O4'	2.17	0.43
1:6:1460:A:OP2	84:sM:68:ARG:HD3	2.18	0.43
1:6:1564:U:H2'	1:6:1565:C:H6	1.79	0.43
3:s1:103:MET:SD	3:s1:188:LEU:HD13	2.58	0.43
4:s2:115:ILE:HD13	4:s2:208:GLU:OE1	2.17	0.43
9:s7:133:THR:HG22	9:s7:157:LYS:O	2.18	0.43
11:s9:159:ALA:O	11:s9:165:GLY:HA3	2.18	0.43
20:c8:91:ASP:O	20:c8:92:ILE:HB	2.17	0.43
22:d0:98:GLN:O	22:d0:102:ARG:HB3	2.18	0.43
23:d1:9:VAL:HG22	23:d1:10:GLU:H	1.83	0.43
36:5:228:U:OP2	92:5:4389:OHX:N2	2.51	0.43
36:5:243:G:O2'	36:5:244:G:H5'	2.18	0.43
36:5:1237:G:H22	36:5:1251:A:H2	1.65	0.43
36:5:1529:A:H5"	36:5:1530:U:OP2	2.18	0.43
36:5:1674:G:OP2	92:5:4226:OHX:N1	2.50	0.43
36:5:2158:A:H5'	36:5:2160:G:O4'	2.18	0.43
36:5:3081:C:H2'	36:5:3082:C:H6	1.83	0.43
36:5:3341:U:H5"	36:5:3342:A:OP2	2.17	0.43
40:l3:4:ARG:NH1	40:l3:7:GLU:HA	2.33	0.43
40:l3:383:LEU:HA	40:l3:383:LEU:HD23	1.60	0.43
48:m1:139:THR:O	48:m1:140:ARG:HD2	2.18	0.43
54:m8:182:LYS:HD3	54:m8:182:LYS:HA	1.79	0.43
58:n2:82:LYS:HE2	58:n2:82:LYS:HB2	1.78	0.43
63:n7:85:TYR:CE2	63:n7:129:TRP:CE2	3.06	0.43
64:n8:122:PRO:HB3	64:n8:142:GLY:O	2.18	0.43
69:o3:67:MET:CE	69:o3:87:ASN:HB2	2.48	0.43
79:q3:84:ARG:HA	79:q3:87:ARG:NH2	2.33	0.43
1:2:189:C:H2'	1:2:190:C:H5'	1.99	0.43
1:2:641:G:O2'	9:S7:178:GLY:O	2.36	0.43
1:2:1207:C:H42	1:2:1456:C:H5	1.67	0.43
3:S1:70:LEU:HD12	3:S1:82:ARG:O	2.19	0.43
6:S4:29:PRO:O	6:S4:31:PRO:HD3	2.18	0.43
6:S4:240:LYS:H	6:S4:240:LYS:HE2	1.82	0.43
8:S6:64:LYS:O	8:S6:67:VAL:HG22	2.18	0.43
9:S7:167:GLU:HG3	9:S7:170:GLN:OE1	2.18	0.43
16:C4:29:HIS:CB	16:C4:41:ARG:HA	2.48	0.43
18:C6:116:LEU:HD13	18:C6:116:LEU:HA	1.81	0.43
19:C7:105:GLN:HA	19:C7:108:ASP:HB2	2.00	0.43
23:D1:59:VAL:HG13	23:D1:64:GLU:HB2	2.00	0.43
23:D1:64:GLU:O	23:D1:68:SER:HB2	2.18	0.43
25:D3:103:LEU:HD22	25:D3:103:LEU:HA	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:132:LYS:HD3	34:SR:140:CYS:SG	2.58	0.43
34:SR:159:ASN:ND2	34:SR:166:SER:O	2.51	0.43
36:1:40:A:N7	64:N8:29:PRO:O	2.51	0.43
36:1:198:A:C6	36:1:219:A:C6	3.06	0.43
36:1:415:G:H2'	36:1:416:A:C8	2.53	0.43
36:1:612:U:H2'	36:1:613:G:H8	1.83	0.43
36:1:937:G:C6	36:1:2410:U:H5"	2.52	0.43
36:1:1366:A:C2	36:1:1367:G:C4	3.06	0.43
36:1:1553:U:H4'	36:1:1554:U:H5'	2.01	0.43
36:1:1889:G:OP1	40:L3:247:ARG:HG3	2.17	0.43
36:1:2174:G:H4'	36:1:2175:U:H5"	2.00	0.43
36:1:2303:A:OP1	77:Q1:23:ARG:NH2	2.52	0.43
36:1:2823:G:N7	92:1:4138:OHX:N1	2.66	0.43
36:1:3104:U:O2'	36:1:3105:U:H5'	2.19	0.43
37:3:73:C:O5'	37:3:73:C:H6	2.01	0.43
38:4:93:U:H2'	38:4:94:C:O4'	2.18	0.43
41:L4:145:ILE:HD12	41:L4:150:LEU:HG	2.00	0.43
42:L5:276:LYS:HB3	42:L5:277:LEU:H	1.63	0.43
44:L7:166:ASN:OD1	44:L7:180:SER:HA	2.18	0.43
46:L9:21:LYS:HA	50:M4:8:LYS:HG3	2.00	0.43
47:M0:100:ASN:OD1	92:M0:305:OHX:N4	2.51	0.43
54:M8:58:ASN:C	54:M8:60:PRO:HD3	2.43	0.43
56:N0:146:LYS:HG3	56:N0:147:ASP:CG	2.43	0.43
58:N2:27:VAL:HG21	58:N2:107:PHE:CE1	2.53	0.43
59:N3:6:ALA:HB2	59:N3:126:TRP:CH2	2.53	0.43
61:N5:86:VAL:HG12	61:N5:120:LYS:HB3	1.99	0.43
69:O3:43:PHE:CD2	69:O3:43:PHE:C	2.97	0.43
75:O9:9:ILE:HG22	75:O9:13:MET:CE	2.43	0.43
1:6:246:G:C6	1:6:247:A:C6	3.06	0.43
1:6:336:G:H5'	13:c1:130:PRO:O	2.18	0.43
1:6:1250:U:O2	33:e1:135:HIS:ND1	2.51	0.43
1:6:1573:A:H4'	1:6:1574:G:H5'	2.01	0.43
8:s6:12:SER:HB3	8:s6:124:LEU:HD12	1.99	0.43
80:c0:23:ALA:CB	80:c0:64:TYR:HB2	2.48	0.43
81:c2:50:LYS:O	81:c2:54:ARG:HG2	2.18	0.43
81:c2:67:THR:O	81:c2:69:ALA:N	2.42	0.43
15:c3:46:THR:HG23	15:c3:49:GLN:NE2	2.33	0.43
18:c6:100:GLN:O	18:c6:104:GLU:HG3	2.18	0.43
29:d7:47:PHE:CE1	29:d7:49:HIS:HB2	2.53	0.43
84:sM:39:PRO:HD3	48:m1:52:TYR:CE1	2.53	0.43
36:5:316:U:O4	72:o6:28:TYR:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:533:A:OP2	92:5:4341:OHX:N4	2.51	0.43
36:5:677:A:OP1	54:m8:89:ASP:HB3	2.18	0.43
36:5:735:A:H8	36:5:735:A:H5"	1.82	0.43
36:5:1110:U:H2'	36:5:1111:U:C6	2.53	0.43
36:5:1329:U:O2'	36:5:1330:A:P	2.76	0.43
36:5:1448:U:H2'	36:5:1449:A:C8	2.54	0.43
36:5:1494:U:OP1	75:o9:44:TRP:HB3	2.18	0.43
36:5:1816:A:O2'	36:5:1817:G:OP1	2.32	0.43
36:5:1939:G:C6	36:5:2110:G:O6	2.72	0.43
36:5:3306:U:H6	36:5:3306:U:O5'	2.01	0.43
44:l7:131:GLU:HG2	44:l7:230:GLY:HA2	2.01	0.43
44:l7:158:LYS:O	44:l7:159:GLN:C	2.60	0.43
44:l7:214:TRP:O	44:l7:216:VAL:HG22	2.19	0.43
46:l9:112:ILE:HG21	46:l9:161:LEU:HG	2.00	0.43
52:m6:58:LEU:HA	52:m6:72:HIS:CD2	2.53	0.43
61:n5:101:GLU:HG2	61:n5:102:LEU:HD23	2.00	0.43
63:n7:70:PRO:HG3	63:n7:115:LYS:HB2	2.00	0.43
69:o3:52:VAL:HG21	69:o3:99:ARG:NH1	2.33	0.43
88:p0:67:LEU:HD21	88:p0:74:GLU:HB2	2.00	0.43
1:2:513:U:H1'	11:S9:131:GLN:HE21	1.83	0.43
1:2:1080:U:H3'	1:2:1081:A:H8	1.84	0.43
1:2:1537:C:O2'	1:2:1540:G:O6	2.25	0.43
7:S5:20:PHE:O	7:S5:21:THR:OG1	2.34	0.43
8:S6:135:PRO:HB2	8:S6:141:ILE:HG12	2.00	0.43
10:S8:25:ARG:HB2	10:S8:28:GLU:HG2	2.00	0.43
23:D1:2:GLU:HB3	23:D1:6:GLY:O	2.18	0.43
24:D2:103:ILE:HA	24:D2:112:ASP:HA	2.01	0.43
34:SR:150:TRP:HB2	34:SR:174:ASN:HB2	1.99	0.43
35:SM:34:LYS:HE3	36:1:2692:A:O3'	2.18	0.43
36:1:114:A:O2'	51:M5:50:ARG:HB2	2.19	0.43
36:1:830:A:H2'	36:1:831:G:O4'	2.18	0.43
36:1:951:A:C4	36:1:1369:A:C2	3.06	0.43
36:1:1528:G:O2'	36:1:1588:A:N3	2.37	0.43
36:1:1537:A:H2'	36:1:1538:G:O4'	2.18	0.43
36:1:1576:G:O6	36:1:1577:G:N1	2.50	0.43
36:1:2443:A:O2'	36:1:2444:C:OP2	2.31	0.43
36:1:3067:C:H3'	55:M9:62:ARG:HH12	1.83	0.43
37:3:62:U:O3'	42:L5:285:ARG:NH1	2.51	0.43
40:L3:58:ARG:HH12	40:L3:352:GLU:CD	2.25	0.43
44:L7:82:LYS:H	44:L7:82:LYS:HG2	1.67	0.43
46:L9:86:TYR:CD2	46:L9:151:VAL:HG22	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:129:LEU:HD12	52:M6:129:LEU:HA	1.78	0.43
63:N7:13:VAL:HB	63:N7:18:TYR:O	2.18	0.43
63:N7:70:PRO:HG3	63:N7:115:LYS:HB2	1.99	0.43
1:6:814:A:C8	1:6:816:G:C8	3.06	0.43
1:6:880:C:H2'	1:6:881:A:H8	1.83	0.43
1:6:1186:U:C4	1:6:1208:A:N6	2.87	0.43
1:6:1372:U:H2'	1:6:1373:C:C6	2.53	0.43
1:6:1398:U:H3'	1:6:1399:C:H4'	1.99	0.43
7:s5:100:ASN:O	7:s5:102:ARG:N	2.51	0.43
32:e0:56:MET:HB2	32:e0:56:MET:HE3	1.58	0.43
83:sR:63:GLY:HA3	83:sR:90:ARG:NH1	2.33	0.43
36:5:44:U:H4'	78:q2:54:THR:HG22	2.00	0.43
36:5:163:C:H42	36:5:258:G:H1	1.65	0.43
36:5:182:U:H2'	36:5:183:G:C8	2.53	0.43
36:5:207:U:H2'	36:5:208:C:H6	1.83	0.43
36:5:282:G:C8	36:5:282:G:H3'	2.53	0.43
36:5:658:G:N2	41:l4:93:MET:HB2	2.33	0.43
36:5:728:G:H5"	54:m8:43:PRO:HB2	2.00	0.43
36:5:920:A:OP1	36:5:922:U:C5	2.71	0.43
36:5:982:C:N3	36:5:1102:A:C2	2.87	0.43
36:5:1002:A:H2'	36:5:1003:A:H8	1.84	0.43
36:5:2257:C:H2'	36:5:2258:U:C6	2.53	0.43
36:5:2436:U:OP2	36:5:2436:U:H6	2.01	0.43
36:5:2553:U:O4'	66:o0:50:VAL:HB	2.18	0.43
36:5:2689:A:C8	36:5:2702:A:N6	2.86	0.43
36:5:2931:C:H2'	36:5:2932:U:O4'	2.19	0.43
36:5:3226:A:C5	36:5:3227:A:C2	3.06	0.43
39:l2:104:LEU:HD23	39:l2:158:ILE:HD11	2.01	0.43
40:l3:236:LYS:HB2	40:l3:236:LYS:HE2	1.61	0.43
41:l4:114:ASN:HB2	41:l4:117:GLU:HB2	2.00	0.43
43:l6:158:TYR:CE1	50:m4:115:PHE:HA	2.54	0.43
46:l9:113:GLU:CD	46:l9:115:ARG:HE	2.26	0.43
47:m0:52:LEU:HD23	47:m0:52:LEU:HA	1.76	0.43
86:m2:34:UNK:C	86:m2:36:UNK:N	2.82	0.43
86:m2:54:UNK:HA	86:m2:55:UNK:HA	1.75	0.43
51:m5:65:ARG:HG3	51:m5:129:TYR:CE1	2.53	0.43
56:n0:40:ARG:HA	56:n0:40:ARG:HD2	1.48	0.43
66:o0:81:VAL:HG11	66:o0:90:VAL:HG21	2.00	0.43
71:o5:43:LYS:O	71:o5:46:THR:OG1	2.36	0.43
78:q2:71:ARG:NH2	78:q2:80:ARG:HD3	2.33	0.43
1:2:103:A:H5'	1:2:105:A:C4	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:256:A:N3	10:S8:73:SER:OG	2.47	0.43
1:2:986:G:H2'	1:2:987:G:O4'	2.19	0.43
4:S2:54:GLU:H	4:S2:54:GLU:HG2	1.40	0.43
11:S9:3:ARG:H	11:S9:3:ARG:NH2	2.17	0.43
12:C0:53:GLY:O	12:C0:55:VAL:N	2.43	0.43
24:D2:37:PHE:HD1	24:D2:41:MET:HE2	1.82	0.43
36:1:852:U:O4	79:Q3:2:ALA:N	2.51	0.43
36:1:952:A:N3	36:1:1114:U:O2'	2.42	0.43
36:1:1233:G:N2	36:1:1255:C:N3	2.49	0.43
36:1:1240:A:N6	36:1:1244:A:H5"	2.31	0.43
36:1:1429:G:C6	41:L4:99:MET:HE2	2.53	0.43
36:1:1608:C:H2'	36:1:1609:C:H6	1.84	0.43
36:1:2359:C:H2'	36:1:2360:C:C6	2.53	0.43
36:1:2808:A:N7	36:1:2955:U:H4'	2.33	0.43
36:1:2890:A:O2'	36:1:2933:A:N3	2.42	0.43
36:1:3185:U:C6	52:M6:126:VAL:HG21	2.54	0.43
36:1:3306:U:H5"	40:L3:21:ARG:NH1	2.33	0.43
36:1:3375:A:OP2	92:1:4484:OHX:N3	2.52	0.43
41:L4:12:THR:C	41:L4:171:ALA:HB1	2.44	0.43
41:L4:134:LEU:N	41:L4:134:LEU:HD23	2.33	0.43
42:L5:92:LEU:HD12	42:L5:92:LEU:H	1.82	0.43
43:L6:6:ALA:HA	68:O2:74:PHE:HE1	1.83	0.43
46:L9:88:TYR:HE2	46:L9:184:LYS:HE2	1.84	0.43
51:M5:153:ASP:OD2	51:M5:155:VAL:HG22	2.17	0.43
53:M7:26:PHE:CE1	53:M7:120:ASN:HA	2.53	0.43
54:M8:40:THR:C	54:M8:42:ALA:H	2.27	0.43
59:N3:120:LYS:H	59:N3:137:VAL:CG2	2.32	0.43
71:O5:71:LYS:HB3	62:n6:125:LYS:HD2	1.99	0.43
1:6:71:A:H2'	1:6:72:A:H4'	2.00	0.43
1:6:602:U:H2'	1:6:603:U:C6	2.53	0.43
1:6:936:G:OP2	1:6:1075:C:H1'	2.17	0.43
1:6:1316:G:O2'	1:6:1401:A:O2'	2.25	0.43
4:s2:186:LYS:HD2	4:s2:189:GLN:OE1	2.19	0.43
5:s3:202:LEU:C	5:s3:204:ASP:H	2.27	0.43
9:s7:31:SER:O	9:s7:35:LYS:HB3	2.18	0.43
9:s7:75:THR:HG23	9:s7:161:GLN:OE1	2.18	0.43
11:s9:119:ALA:O	11:s9:124:HIS:ND1	2.38	0.43
84:sM:65:THR:O	84:sM:70:ASN:ND2	2.52	0.43
36:5:998:A:O2'	36:5:999:G:H5'	2.18	0.43
36:5:1126:G:O2'	47:m0:118:ALA:HB3	2.18	0.43
36:5:1565:G:N2	36:5:1566:A:H1'	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2442:G:H22	36:5:2506:U:H3	1.66	0.43
36:5:3215:A:C5'	50:m4:121:MET:HE1	2.48	0.43
36:5:3362:A:C2	36:5:3363:U:C2	3.06	0.43
40:l3:18:PRO:HG2	40:l3:20:LYS:HD2	2.01	0.43
40:l3:219:ALA:HB2	40:l3:336:VAL:HG22	1.99	0.43
42:l5:7:ALA:O	92:l5:310:OHX:N6	2.51	0.43
42:l5:39:GLN:OE1	42:l5:40:HIS:N	2.51	0.43
42:l5:282:ARG:O	42:l5:286:VAL:HG23	2.18	0.43
46:l9:3:TYR:HA	56:n0:142:GLN:OE1	2.18	0.43
47:m0:43:VAL:CG2	47:m0:197:VAL:HG13	2.46	0.43
50:m4:24:LYS:HE2	50:m4:24:LYS:HB3	1.65	0.43
62:n6:106:ILE:HG21	62:n6:109:LEU:HD23	2.00	0.43
64:n8:47:LYS:HE3	64:n8:48:TYR:CZ	2.53	0.43
64:n8:128:ARG:O	64:n8:129:PHE:HB2	2.18	0.43
72:o6:98:ARG:HB3	72:o6:99:ARG:H	1.57	0.43
1:2:72:A:C3'	1:2:73:U:H5"	2.48	0.43
1:2:197:A:H2'	1:2:198:A:C8	2.52	0.43
1:2:1590:G:OP1	21:C9:91:TYR:HB2	2.18	0.43
3:S1:30:PHE:CD1	3:S1:96:LEU:HD22	2.54	0.43
5:S3:178:ARG:H	5:S3:178:ARG:HE	1.67	0.43
17:C5:67:ALA:C	17:C5:69:GLU:H	2.27	0.43
19:C7:34:LEU:O	19:C7:38:ILE:HG22	2.18	0.43
25:D3:127:VAL:O	25:D3:130:VAL:HG22	2.19	0.43
34:SR:103:PHE:CD1	34:SR:138:GLY:HA2	2.53	0.43
36:1:317:A:C2	36:1:318:A:C4	3.05	0.43
36:1:540:U:H2'	36:1:541:U:C6	2.54	0.43
36:1:621:A:O2'	92:1:4415:OHX:N1	2.51	0.43
36:1:637:C:C2	36:1:638:C:C5	3.06	0.43
36:1:781:G:OP1	54:M8:151:ARG:HD2	2.19	0.43
36:1:1072:G:H2'	36:1:1073:U:H6	1.83	0.43
36:1:1295:G:H2'	36:1:1296:C:C6	2.53	0.43
36:1:2209:U:OP2	36:1:2209:U:C6	2.67	0.43
36:1:2296:A:OP1	92:1:4396:OHX:N2	2.52	0.43
36:1:2932:U:O2	36:1:2934:A:H8	2.02	0.43
36:1:3106:A:H2'	36:1:3107:U:O4'	2.18	0.43
36:1:3351:U:O2'	36:1:3352:U:OP1	2.31	0.43
37:3:36:C:O2'	37:3:37:G:H5'	2.19	0.43
40:L3:166:ILE:O	40:L3:169:THR:HB	2.19	0.43
43:L6:2:SER:HB3	68:O2:81:ASP:OD1	2.18	0.43
43:L6:171:PRO:C	43:L6:173:MET:H	2.26	0.43
46:L9:16:VAL:HG23	46:L9:29:GLY:HA3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:96:ALA:O	50:M4:101:LYS:HE3	2.19	0.43
53:M7:74:LYS:O	53:M7:76:PHE:N	2.51	0.43
56:N0:13:ARG:O	56:N0:22:PRO:HG2	2.19	0.43
78:Q2:10:THR:HG22	78:Q2:23:HIS:ND1	2.33	0.43
1:6:736:C:H2'	1:6:737:A:C8	2.53	0.43
1:6:993:A:H2'	1:6:994:G:O4'	2.18	0.43
1:6:1670:G:O6	92:6:2249:OHX:N4	2.52	0.43
3:s1:148:ASN:H	3:s1:148:ASN:ND2	2.16	0.43
3:s1:164:ILE:HD13	3:s1:207:LEU:HD11	2.01	0.43
4:s2:58:LEU:HD21	4:s2:236:PRO:HG2	2.00	0.43
6:s4:6:LYS:O	6:s4:7:LYS:HD2	2.19	0.43
7:s5:145:ASP:CG	7:s5:146:THR:H	2.26	0.43
80:c0:1:MET:HE2	80:c0:41:TYR:CE1	2.53	0.43
81:c2:103:LEU:HD23	81:c2:115:VAL:HA	2.00	0.43
20:c8:13:HIS:HA	20:c8:24:GLY:HA3	2.00	0.43
31:d9:43:PHE:O	31:d9:47:ALA:N	2.52	0.43
36:5:646:A:C2	36:5:2375:G:C2	3.06	0.43
36:5:714:G:N7	64:n8:111:LYS:NZ	2.46	0.43
36:5:770:G:N7	92:5:4351:OHX:N6	2.66	0.43
36:5:771:A:H2'	36:5:772:U:O4'	2.18	0.43
36:5:1017:C:OP1	36:5:1017:C:H2'	2.18	0.43
36:5:1365:G:OP2	92:5:4287:OHX:N3	2.51	0.43
36:5:2505:U:H2'	36:5:2506:U:C4	2.53	0.43
36:5:2524:A:N6	85:l8:42:PRO:O	2.51	0.43
36:5:2617:U:O3'	47:m0:116:ARG:NH2	2.46	0.43
36:5:2746:A:H2'	36:5:2747:A:O4'	2.19	0.43
37:7:64:A:O5'	47:m0:206:LEU:HB2	2.18	0.43
37:7:114:U:H2'	37:7:115:G:H8	1.83	0.43
40:l3:287:LYS:HA	40:l3:287:LYS:HD2	1.78	0.43
41:l4:203:ARG:HH21	41:l4:240:PRO:HB3	1.84	0.43
44:l7:195:PHE:O	44:l7:196:LYS:C	2.62	0.43
44:l7:239:LEU:HD23	44:l7:239:LEU:HA	1.85	0.43
47:m0:184:LYS:HG2	47:m0:189:GLU:OE2	2.17	0.43
48:m1:115:LYS:HB3	48:m1:116:TYR:H	1.74	0.43
51:m5:137:PRO:HG2	51:m5:138:GLN:NE2	2.34	0.43
52:m6:12:LYS:O	56:n0:167:ARG:NH2	2.52	0.43
53:m7:112:LEU:HD12	53:m7:112:LEU:HA	1.82	0.43
59:n3:24:ASN:O	59:n3:99:ALA:HA	2.18	0.43
87:n4:31:PHE:CG	87:n4:37:ALA:HB2	2.53	0.43
61:n5:136:ALA:O	61:n5:139:ILE:HB	2.19	0.43
62:n6:57:LEU:HD22	62:n6:58:VAL:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:n6:57:LEU:HD13	62:n6:59:VAL:HG12	2.01	0.43
79:q3:13:LYS:HD2	79:q3:14:TYR:CZ	2.54	0.43
90:A:76:PPU:H8	90:A:76:PPU:C5'	2.45	0.43
1:2:103:A:OP2	92:2:2106:OHX:N1	2.52	0.43
1:2:616:G:C2	1:2:622:A:N7	2.86	0.43
1:2:767:U:H5	11:S9:142:ASN:H	1.67	0.43
1:2:1064:G:O2'	3:S1:204:ILE:O	2.36	0.43
3:S1:120:LEU:HD21	3:S1:140:ILE:HD11	2.00	0.43
4:S2:40:LYS:HA	4:S2:43:ARG:NH1	2.33	0.43
15:C3:115:LEU:O	15:C3:119:GLU:HG3	2.19	0.43
16:C4:129:LYS:HE3	16:C4:129:LYS:HB2	1.85	0.43
18:C6:113:ASP:CG	18:C6:114:ARG:N	2.75	0.43
21:C9:76:LEU:HD22	21:C9:80:TYR:HE2	1.84	0.43
22:D0:50:LEU:HD23	22:D0:95:ALA:HB2	2.00	0.43
32:E0:46:ASN:O	32:E0:47:VAL:HG12	2.18	0.43
36:1:86:G:O2'	36:1:98:G:O6	2.34	0.43
36:1:390:G:C2	36:1:391:A:H1'	2.53	0.43
36:1:806:A:C4	36:1:936:A:C2	3.07	0.43
36:1:864:G:O6	36:1:893:C:H3'	2.19	0.43
36:1:1561:G:N1	36:1:1578:C:N4	2.67	0.43
36:1:1744:G:H2'	36:1:1745:C:C6	2.53	0.43
36:1:2309:A:H4'	92:1:4385:OHX:N4	2.33	0.43
36:1:2854:U:P	47:M0:3:ARG:HH22	2.39	0.43
37:3:90:U:C4	37:3:91:G:C5	3.07	0.43
38:4:41:A:O2'	73:O7:59:THR:HG22	2.19	0.43
39:L2:59:ALA:HB2	39:L2:78:ALA:HB2	2.00	0.43
40:L3:347:SER:C	40:L3:349:LYS:H	2.27	0.43
41:L4:98:ARG:HG2	41:L4:99:MET:N	2.34	0.43
41:L4:259:ASP:OD2	41:L4:264:SER:HB3	2.18	0.43
42:L5:5:LYS:HD2	42:L5:5:LYS:HA	1.84	0.43
42:L5:68:THR:HG22	42:L5:70:THR:H	1.84	0.43
44:L7:89:ILE:HD12	44:L7:214:TRP:CH2	2.53	0.43
45:L8:78:PHE:C	45:L8:80:TYR:N	2.75	0.43
46:L9:84:LYS:HA	46:L9:188:THR:HG23	2.00	0.43
46:L9:88:TYR:CE2	46:L9:184:LYS:HE2	2.53	0.43
47:M0:52:LEU:HB2	47:M0:136:PHE:HB2	2.00	0.43
47:M0:119:TRP:O	92:M0:306:OHX:N4	2.52	0.43
48:M1:25:GLU:HG3	48:M1:26:SER:O	2.18	0.43
49:M3:190:LYS:HB2	49:M3:190:LYS:HE2	1.55	0.43
55:M9:23:TRP:O	55:M9:50:ILE:HA	2.19	0.43
60:N4:55:PHE:CD1	60:N4:55:PHE:C	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:32:TRP:CE2	68:O2:53:PRO:HD2	2.54	0.43
78:Q2:99:GLN:CD	78:Q2:102:GLN:HG3	2.44	0.43
1:6:80:A:OP2	92:6:2315:OHX:N5	2.52	0.43
1:6:448:C:H5'	6:s4:28:ALA:C	2.44	0.43
1:6:1036:A:H1'	24:d2:9:ASP:OD1	2.18	0.43
1:6:1251:U:H4'	33:e1:134:ASN:N	2.30	0.43
2:s0:34:GLU:N	2:s0:35:PRO:HD2	2.33	0.43
2:s0:64:ILE:HG23	2:s0:73:VAL:HG11	1.98	0.43
2:s0:202:TYR:O	2:s0:203:PHE:CD2	2.72	0.43
3:s1:70:LEU:HB2	3:s1:82:ARG:O	2.18	0.43
5:s3:115:ILE:HD12	5:s3:116:ARG:H	1.84	0.43
6:s4:52:LEU:HB3	6:s4:54:TYR:HD2	1.84	0.43
11:s9:105:LEU:HA	11:s9:105:LEU:HD12	1.65	0.43
24:d2:105:THR:OG1	24:d2:126:LEU:HG	2.18	0.43
28:d6:61:GLU:O	28:d6:62:TYR:HB3	2.19	0.43
28:d6:62:TYR:CG	28:d6:63:ALA:N	2.85	0.43
33:e1:100:LEU:HG	33:e1:102:VAL:HG23	2.00	0.43
36:5:407:A:C2	38:8:17:A:H1'	2.54	0.43
36:5:650:C:H2'	36:5:651:G:C8	2.54	0.43
36:5:1008:U:C2	36:5:1043:C:C2	3.06	0.43
36:5:1162:U:H1'	68:o2:12:LYS:HE2	2.00	0.43
36:5:1810:A:H2'	36:5:1811:G:C8	2.53	0.43
36:5:2271:A:N7	36:5:2272:G:C6	2.86	0.43
36:5:2294:U:H2'	36:5:2296:A:OP2	2.19	0.43
36:5:2524:A:H1'	36:5:2525:G:C8	2.54	0.43
36:5:2584:G:H5'	36:5:2585:G:OP2	2.17	0.43
36:5:3047:U:O2'	36:5:3048:A:H5'	2.18	0.43
39:l2:117:GLU:HB3	39:l2:122:ASP:OD2	2.17	0.43
44:l7:132:PRO:HA	44:l7:229:PHE:CD2	2.54	0.43
46:l9:4:ILE:HD11	56:n0:148:LEU:HD21	1.99	0.43
48:m1:100:GLY:HA3	48:m1:154:THR:HB	2.00	0.43
49:m3:25:HIS:O	51:m5:201:ARG:HD2	2.18	0.43
53:m7:29:THR:HG22	53:m7:87:SER:CB	2.49	0.43
57:n1:7:TYR:OH	57:n1:54:HIS:HB2	2.18	0.43
57:n1:135:PRO:O	57:n1:136:ARG:HB2	2.19	0.43
63:n7:36:HIS:ND1	63:n7:74:VAL:HG11	2.33	0.43
64:n8:59:ARG:NH2	78:q2:38:GLN:OE1	2.49	0.43
1:2:1215:C:O2'	1:2:1216:C:H5'	2.18	0.43
1:2:1498:G:C2	1:2:1510:U:O2	2.72	0.43
2:S0:87:LEU:HD12	2:S0:87:LEU:HA	1.84	0.43
4:S2:103:VAL:HA	4:S2:112:GLY:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:29:LEU:HA	5:S3:32:GLU:OE1	2.18	0.43
5:S3:105:MET:HG2	5:S3:122:VAL:HG21	2.00	0.43
27:D5:59:TYR:HD2	27:D5:60:VAL:N	2.17	0.43
34:SR:170:ILE:HG21	34:SR:211:ILE:HD11	2.01	0.43
36:1:196:G:N7	92:1:4139:OHX:N6	2.67	0.43
36:1:303:G:C2	36:1:313:A:C2	3.06	0.43
36:1:638:C:H2'	36:1:639:G:C8	2.54	0.43
36:1:1362:G:H2'	36:1:1363:A:C8	2.54	0.43
36:1:1528:G:H2'	36:1:1529:A:O4'	2.18	0.43
36:1:1661:G:O6	92:1:4120:OHX:N6	2.51	0.43
36:1:2219:A:H2'	36:1:2220:A:C8	2.53	0.43
36:1:2572:C:O2'	36:1:2573:G:C8	2.72	0.43
39:L2:36:GLU:OE1	39:L2:163:ARG:NH1	2.51	0.43
39:L2:224:THR:HG22	39:L2:240:ALA:HB3	2.00	0.43
40:L3:58:ARG:NH1	40:L3:352:GLU:OE1	2.36	0.43
41:L4:35:VAL:HG11	41:L4:244:LEU:HD21	2.01	0.43
41:L4:118:LYS:O	41:L4:122:THR:HG23	2.19	0.43
41:L4:126:ILE:HG13	41:L4:238:LEU:HD13	2.00	0.43
41:L4:156:LEU:HD23	41:L4:159:ILE:HD12	2.01	0.43
41:L4:285:ASP:OD2	41:L4:288:ARG:HB2	2.18	0.43
42:L5:119:TYR:CE1	42:L5:135:VAL:HG23	2.54	0.43
50:M4:88:ALA:O	50:M4:93:LYS:NZ	2.31	0.43
57:N1:65:TYR:CD2	57:N1:75:ILE:HG22	2.54	0.43
66:O0:45:ALA:HB2	66:O0:88:GLY:HA2	2.00	0.43
1:6:396:G:N2	1:6:398:G:H3'	2.33	0.43
1:6:512:A:O2'	11:s9:133:HIS:HE1	2.00	0.43
1:6:647:G:N2	1:6:687:G:N2	2.64	0.43
1:6:751:G:H2'	1:6:752:A:C8	2.54	0.43
1:6:874:C:OP1	3:s1:159:SER:OG	2.27	0.43
1:6:1196:A:H4'	1:6:1197:C:O5'	2.18	0.43
1:6:1331:A:N3	5:s3:204:ASP:HB3	2.33	0.43
2:s0:172:LEU:O	2:s0:176:LEU:HG	2.19	0.43
4:s2:49:LYS:HA	4:s2:49:LYS:HD3	1.83	0.43
7:s5:144:GLU:OE1	7:s5:225:ARG:NH1	2.52	0.43
9:s7:9:LEU:HB3	9:s7:10:SER:H	1.52	0.43
10:s8:42:ARG:O	10:s8:58:LEU:HD12	2.18	0.43
26:d4:34:ASN:OD1	26:d4:62:THR:HG21	2.18	0.43
36:5:290:G:OP1	51:m5:98:LEU:HD13	2.18	0.43
36:5:594:U:H5"	36:5:609:G:O6	2.18	0.43
36:5:806:A:OP1	41:l4:64:SER:HB2	2.19	0.43
36:5:1206:G:OP1	47:m0:157:TYR:OH	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1913:A:N3	36:5:2120:A:H2'	2.34	0.43
36:5:2222:A:H8	36:5:2222:A:O5'	2.02	0.43
36:5:2390:A:C2	36:5:2990:G:C2	3.07	0.43
36:5:2730:G:H4'	54:m8:184:PHE:CG	2.53	0.43
36:5:2991:A:OP1	40:l3:21:ARG:HG3	2.19	0.43
39:l2:70:ARG:HH11	39:l2:72:ARG:HE	1.65	0.43
40:l3:84:VAL:HB	40:l3:162:VAL:HB	1.99	0.43
40:l3:233:TRP:CD1	40:l3:265:ALA:HB1	2.53	0.43
41:l4:91:GLY:O	41:l4:94:CYS:HB2	2.19	0.43
42:l5:200:PHE:O	42:l5:240:TYR:HD2	2.01	0.43
85:l8:134:TYR:CD2	85:l8:190:VAL:HG11	2.53	0.43
53:m7:31:GLU:HG3	53:m7:60:PHE:HA	1.98	0.43
56:n0:90:MET:HE1	56:n0:114:HIS:NE2	2.34	0.43
62:n6:27:ARG:NH1	62:n6:75:ARG:O	2.44	0.43
67:o1:84:ASP:N	67:o1:84:ASP:OD1	2.52	0.43
72:o6:53:TYR:O	72:o6:57:LEU:N	2.52	0.43
72:o6:58:ILE:HG13	72:o6:62:ARG:HH21	1.83	0.43
79:q3:87:ARG:O	79:q3:91:GLU:HG2	2.19	0.43
1:2:290:G:O6	92:2:2215:OHX:N2	2.52	0.43
1:2:808:U:H2'	1:2:809:A:C8	2.53	0.43
1:2:934:C:N3	1:2:1077:C:H4'	2.34	0.43
1:2:1235:C:H5'	33:E1:146:SER:HB2	2.00	0.43
1:2:1535:U:H6	1:2:1535:U:H2'	1.57	0.43
1:2:1653:C:N4	1:2:1654:G:C6	2.87	0.43
2:S0:118:PRO:HG2	2:S0:141:ILE:HD13	2.00	0.43
2:S0:129:ASP:O	2:S0:132:ALA:N	2.48	0.43
2:S0:154:GLU:H	2:S0:154:GLU:HG2	1.60	0.43
3:S1:147:ALA:O	3:S1:148:ASN:HB3	2.18	0.43
4:S2:49:LYS:HD2	4:S2:243:TYR:CD1	2.54	0.43
7:S5:44:ASN:OD1	7:S5:70:VAL:HG12	2.18	0.43
14:C2:97:LEU:HA	14:C2:100:TRP:CE3	2.54	0.43
14:C2:125:ASN:OD1	35:SM:168:UNK:HA	2.19	0.43
17:C5:50:THR:O	17:C5:50:THR:OG1	2.25	0.43
17:C5:60:LEU:HD11	17:C5:92:SER:OG	2.19	0.43
21:C9:53:TRP:HH2	21:C9:100:ILE:HD12	1.84	0.43
23:D1:16:LYS:HE3	23:D1:16:LYS:HB2	1.73	0.43
25:D3:76:LEU:HD23	25:D3:76:LEU:HA	1.92	0.43
25:D3:92:CYS:SG	25:D3:132:LEU:HD12	2.59	0.43
25:D3:108:GLY:O	25:D3:109:ARG:HG2	2.18	0.43
28:D6:45:VAL:HB	28:D6:46:GLU:H	1.62	0.43
32:E0:28:LYS:HZ2	32:E0:31:LYS:HE2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:36:ALA:HB2	34:SR:71:CYS:HB3	2.00	0.43
34:SR:159:ASN:ND2	34:SR:163:ASP:HA	2.34	0.43
36:1:380:U:H2'	36:1:381:U:H6	1.83	0.43
36:1:391:A:C5	36:1:392:G:C8	3.07	0.43
36:1:1294:A:O2'	36:1:1295:G:H5"	2.19	0.43
36:1:1565:G:C2	36:1:1566:A:C4	3.07	0.43
36:1:2416:U:H2'	36:1:2417:U:C6	2.54	0.43
36:1:2812:C:H2'	36:1:2813:A:C8	2.54	0.43
36:1:2911:A:H4'	36:1:2912:G:C8	2.54	0.43
38:4:127:U:C2'	38:4:128:U:H5'	2.48	0.43
40:L3:92:TYR:O	40:L3:155:ALA:HA	2.18	0.43
41:L4:144:LYS:HG3	41:L4:144:LYS:O	2.19	0.43
42:L5:11:ALA:O	42:L5:15:ARG:HG3	2.18	0.43
42:L5:227:LEU:O	42:L5:229:ASP:N	2.51	0.43
45:L8:145:ASN:O	45:L8:147:LYS:HG3	2.19	0.43
55:M9:130:ASN:C	55:M9:132:PHE:H	2.25	0.43
55:M9:134:HIS:CE1	55:M9:137:ALA:HB2	2.53	0.43
57:N1:27:LEU:HD22	57:N1:27:LEU:HA	1.90	0.43
63:N7:10:VAL:HB	63:N7:83:THR:CG2	2.49	0.43
64:N8:94:ALA:HB1	64:N8:122:PRO:CD	2.45	0.43
1:6:144:U:H5	8:s6:137:ARG:NH1	2.08	0.43
1:6:584:C:H1'	32:e0:18:THR:HG21	2.01	0.43
1:6:888:U:H1'	16:c4:126:THR:HG21	2.01	0.43
1:6:1616:G:H4'	30:d8:18:ARG:NH1	2.34	0.43
2:s0:198:MET:SD	2:s0:199:PRO:HD2	2.58	0.43
3:s1:33:LYS:HD3	3:s1:232:HIS:ND1	2.34	0.43
7:s5:149:VAL:HG23	7:s5:156:ARG:O	2.18	0.43
8:s6:31:ARG:HG2	8:s6:34:GLN:CD	2.44	0.43
82:c5:33:PHE:O	82:c5:36:LEU:HD22	2.18	0.43
24:d2:74:VAL:O	24:d2:75:ILE:HD13	2.18	0.43
36:5:412:G:C1'	53:m7:120:ASN:HB3	2.49	0.43
36:5:529:A:C2	36:5:530:G:C4	3.06	0.43
36:5:784:A:C6	54:m8:93:ILE:HG23	2.53	0.43
36:5:884:A:N7	36:5:2139:A:C4	2.87	0.43
36:5:916:G:H5'	36:5:917:A:OP1	2.18	0.43
36:5:1687:U:H1'	58:n2:75:TYR:CD2	2.54	0.43
36:5:2526:C:H1'	36:5:2588:U:H5"	2.00	0.43
36:5:2541:U:H4'	36:5:2542:U:OP1	2.19	0.43
36:5:2943:G:C8	40:l3:2:SER:N	2.86	0.43
36:5:2955:U:H2'	36:5:2956:A:O4'	2.18	0.43
36:5:3132:C:H2'	36:5:3133:C:C6	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3215:A:O5'	50:m4:121:MET:HE1	2.18	0.43
36:5:3251:U:H2'	36:5:3252:G:C8	2.53	0.43
36:5:3333:G:N2	36:5:3369:G:O2'	2.52	0.43
37:7:4:U:H2'	37:7:5:G:C8	2.53	0.43
37:7:28:C:OP1	48:m1:137:ARG:HD3	2.19	0.43
46:l9:174:LYS:HB2	76:q0:127:LEU:HD11	2.01	0.43
52:m6:65:ASN:O	52:m6:68:ARG:HG2	2.18	0.43
62:n6:31:LEU:HD21	62:n6:78:PHE:HA	2.00	0.43
68:o2:55:ILE:HD12	68:o2:55:ILE:HA	1.85	0.43
69:o3:80:VAL:HG12	69:o3:81:VAL:N	2.34	0.43
1:2:387:A:H5"	1:2:389:G:OP2	2.17	0.43
1:2:424:C:O2'	1:2:426:G:OP1	2.34	0.43
1:2:830:U:O2'	1:2:831:U:H6	2.01	0.43
1:2:1022:C:H4'	1:2:1124:A:N6	2.33	0.43
1:2:1191:U:H5'	18:C6:143:ARG:NH1	2.33	0.43
1:2:1248:C:H2'	1:2:1249:U:C6	2.54	0.43
1:2:1553:G:N2	1:2:1555:A:H3'	2.34	0.43
5:S3:64:ARG:O	5:S3:66:ILE:N	2.52	0.43
7:S5:29:ILE:HG22	7:S5:34:GLN:HG2	2.00	0.43
15:C3:109:LYS:HD2	15:C3:109:LYS:N	2.33	0.43
17:C5:64:LYS:HG3	17:C5:73:PRO:HG3	2.01	0.43
19:C7:20:TYR:O	19:C7:24:LEU:HD12	2.18	0.43
21:C9:61:VAL:HG22	21:C9:76:LEU:HD22	2.00	0.43
22:D0:54:GLY:O	22:D0:55:PRO:C	2.61	0.43
26:D4:102:LYS:H	26:D4:102:LYS:HD2	1.83	0.43
36:1:613:G:H2'	36:1:614:C:C6	2.54	0.43
36:1:613:G:H2'	36:1:614:C:H6	1.83	0.43
36:1:1422:G:H21	43:L6:5:LYS:HZ3	1.67	0.43
36:1:1677:G:N7	58:N2:74:LYS:HE3	2.34	0.43
36:1:2665:U:H4'	36:1:2666:C:OP1	2.18	0.43
36:1:3019:U:C4	36:1:3020:U:C4	3.07	0.43
36:1:3160:U:H2'	36:1:3161:C:C6	2.53	0.43
36:1:3299:A:N6	36:1:3315:G:H1	2.15	0.43
40:L3:67:PHE:CZ	59:N3:88:ARG:HB2	2.53	0.43
40:L3:358:TRP:CZ2	40:L3:360:ASP:HA	2.54	0.43
42:L5:52:VAL:HG21	42:L5:65:ILE:HD12	2.00	0.43
42:L5:259:LYS:HE2	42:L5:259:LYS:HB3	1.81	0.43
44:L7:39:GLU:O	44:L7:43:ILE:HG13	2.19	0.43
45:L8:75:ILE:C	45:L8:77:GLN:N	2.75	0.43
47:M0:52:LEU:HD23	47:M0:52:LEU:HA	1.83	0.43
47:M0:90:ARG:HB2	47:M0:135:ILE:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:155:GLU:H	53:M7:155:GLU:HG3	1.58	0.43
54:M8:23:ASN:HB3	54:M8:26:LEU:HB2	2.00	0.43
56:N0:82:ASP:HA	56:N0:87:THR:HA	2.00	0.43
58:N2:49:ASN:O	58:N2:49:ASN:ND2	2.46	0.43
59:N3:127:PRO:O	59:N3:130:ALA:N	2.52	0.43
60:N4:39:LEU:HD12	60:N4:39:LEU:HA	1.77	0.43
61:N5:73:MET:HE1	61:N5:141:TYR:HE1	1.83	0.43
61:N5:100:LYS:NZ	61:N5:106:ASP:HA	2.34	0.43
62:N6:57:LEU:HD23	62:N6:66:GLN:O	2.18	0.43
71:O5:96:GLU:H	71:O5:96:GLU:HG3	1.60	0.43
1:6:97:C:O2	1:6:425:A:O2'	2.37	0.43
1:6:454:U:C6	6:s4:66:MET:HG3	2.53	0.43
1:6:481:A:C2	1:6:508:U:C2	3.07	0.43
1:6:565:C:O2	92:6:2294:OHX:N1	2.52	0.43
1:6:683:C:OP1	92:6:2306:OHX:N4	2.51	0.43
1:6:973:A:H5'	36:5:848:A:H2	1.84	0.43
1:6:1498:G:OP2	21:c9:74:GLY:HA3	2.19	0.43
1:6:1579:U:H5"	18:c6:142:TYR:HE2	1.82	0.43
6:s4:118:GLU:HA	6:s4:121:TYR:HE1	1.80	0.43
6:s4:136:VAL:HG11	6:s4:148:ARG:HH22	1.84	0.43
7:s5:62:VAL:CG1	7:s5:89:ILE:HG12	2.49	0.43
7:s5:144:GLU:HG3	7:s5:221:ALA:CB	2.49	0.43
19:c7:29:GLN:HG2	83:sR:67:ILE:HD11	1.99	0.43
36:5:378:A:H3'	36:5:379:C:H6	1.83	0.43
36:5:1063:G:C6	57:n1:109:VAL:HG13	2.54	0.43
36:5:1201:C:O2	92:5:4290:OHX:N2	2.52	0.43
36:5:1251:A:H2'	36:5:1252:A:O4'	2.18	0.43
36:5:1334:U:H5'	44:l7:207:LEU:O	2.19	0.43
36:5:1349:G:N1	36:5:1350:A:N6	2.67	0.43
36:5:1397:C:H2'	36:5:1398:U:C6	2.54	0.43
36:5:2586:G:C5	85:l8:241:LYS:HB2	2.54	0.43
41:l4:36:HIS:O	41:l4:40:THR:HG23	2.18	0.43
41:l4:74:ILE:HD11	41:l4:93:MET:HE3	2.00	0.43
41:l4:314:LYS:HD2	44:l7:162:PRO:HB3	2.00	0.43
44:l7:139:PRO:HA	44:l7:237:ASN:HD21	1.84	0.43
85:l8:242:ALA:HA	85:l8:245:LYS:HD2	2.00	0.43
47:m0:75:TYR:CE2	47:m0:79:VAL:HG21	2.54	0.43
49:m3:131:LYS:HD3	49:m3:131:LYS:H	1.84	0.43
50:m4:47:ASP:C	50:m4:49:PRO:HD3	2.44	0.43
55:m9:98:ARG:HD3	55:m9:133:LYS:O	2.18	0.43
61:n5:50:ALA:HB2	71:o5:79:ASP:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:o0:103:THR:HB	66:o0:104:LEU:H	1.67	0.43
71:o5:31:LEU:O	71:o5:35:LYS:N	2.49	0.43
78:q2:74:CYS:CB	78:q2:77:CYS:SG	3.07	0.43
1:2:66:U:H5'	8:S6:173:PRO:HA	2.00	0.43
1:2:545:A:H4'	1:2:546:U:OP1	2.19	0.43
1:2:1081:A:H4'	1:2:1082:C:O5'	2.19	0.43
1:2:1556:A:C5	1:2:1560:U:C2	3.06	0.43
1:2:1648:A:H4'	32:E0:4:VAL:HG21	2.01	0.43
5:S3:65:ARG:HA	5:S3:68:GLU:HG3	2.01	0.43
8:S6:58:LYS:HG2	8:S6:105:ASP:O	2.19	0.43
12:C0:44:LYS:HA	12:C0:44:LYS:HD3	1.79	0.43
15:C3:26:PHE:CZ	15:C3:28:LEU:HB2	2.53	0.43
20:C8:41:ARG:NH1	21:C9:38:LYS:HG3	2.34	0.43
21:C9:73:VAL:HG21	21:C9:102:ARG:HG3	2.00	0.43
22:D0:55:PRO:HG3	22:D0:91:ILE:HD11	2.01	0.43
34:SR:135:THR:HG23	34:SR:139:GLN:O	2.19	0.43
35:SM:84:LYS:O	35:SM:85:SER:HB3	2.18	0.43
36:1:156:G:O2'	36:1:157:A:H4'	2.19	0.43
36:1:158:G:H2'	36:1:159:A:C8	2.54	0.43
36:1:274:G:H2'	36:1:275:U:O4'	2.19	0.43
36:1:619:A:H5"	36:1:620:U:OP1	2.19	0.43
36:1:908:G:H4'	36:1:909:G:O5'	2.18	0.43
36:1:980:A:C8	36:1:980:A:OP2	2.72	0.43
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.52	0.43
36:1:2979:U:N3	92:1:4446:OHX:N2	2.67	0.43
36:1:3258:U:O2'	36:1:3260:G:OP1	2.17	0.43
40:L3:103:THR:HG21	40:L3:147:GLU:OE2	2.19	0.43
40:L3:257:PRO:HG2	40:L3:261:MET:HE3	1.99	0.43
41:L4:350:LYS:HE3	41:L4:350:LYS:HB3	1.83	0.43
42:L5:85:ARG:HD3	42:L5:86:TYR:CZ	2.53	0.43
43:L6:50:LYS:HG2	43:L6:74:VAL:CG2	2.49	0.43
46:L9:152:GLU:H	46:L9:152:GLU:HG2	1.29	0.43
47:M0:53:VAL:HG21	47:M0:166:ILE:HD12	2.01	0.43
49:M3:83:ALA:HB2	49:M3:113:VAL:HG13	2.00	0.43
53:M7:29:THR:HG22	53:M7:87:SER:OG	2.18	0.43
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.54	0.43
54:M8:46:LYS:O	54:M8:50:LYS:HG3	2.18	0.43
55:M9:44:LEU:HD12	55:M9:49:THR:CB	2.49	0.43
63:N7:115:LYS:NZ	63:N7:119:GLU:OE2	2.49	0.43
70:O4:8:ARG:HB2	70:O4:34:HIS:NE2	2.33	0.43
71:O5:76:GLN:O	71:O5:77:PRO:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.49	0.43
1:6:40:A:H61	1:6:467:G:H1'	1.83	0.43
1:6:386:G:H2'	1:6:387:A:C8	2.54	0.43
1:6:808:U:H2'	1:6:809:A:C8	2.54	0.43
1:6:1515:A:O2'	1:6:1517:U:OP2	2.28	0.43
1:6:1529:C:H2'	1:6:1530:C:C6	2.54	0.43
6:s4:47:PHE:CE2	6:s4:52:LEU:HD11	2.54	0.43
9:s7:35:LYS:HB3	9:s7:35:LYS:HE3	1.90	0.43
81:c2:58:LEU:HG	81:c2:126:TRP:CZ3	2.54	0.43
24:d2:18:GLU:OE2	24:d2:65:LEU:HB3	2.19	0.43
27:d5:56:THR:O	27:d5:103:ARG:NH2	2.52	0.43
30:d8:54:LEU:HD13	30:d8:54:LEU:HA	1.83	0.43
33:e1:83:LYS:O	33:e1:84:VAL:HB	2.17	0.43
83:sR:248:ASN:ND2	83:sR:298:GLY:HA3	2.33	0.43
36:5:413:U:H2'	36:5:414:U:H6	1.83	0.43
36:5:634:C:H5'	69:o3:21:ARG:O	2.18	0.43
36:5:891:G:OP1	92:5:4174:OHX:N6	2.51	0.43
36:5:955:U:H2'	36:5:956:U:H6	1.83	0.43
36:5:1307:G:C2	36:5:1308:A:C2	3.07	0.43
36:5:2138:A:C4	73:o7:3:LYS:HB3	2.54	0.43
36:5:2174:G:OP2	39:l2:193:ARG:NH1	2.52	0.43
37:7:1:G:H21	42:l5:269:SER:CB	2.31	0.43
38:8:86:U:H2'	71:o5:7:TYR:HE2	1.83	0.43
41:l4:74:ILE:HG22	41:l4:76:ARG:NH1	2.34	0.43
41:l4:300:ARG:O	41:l4:301:PRO:C	2.62	0.43
44:l7:73:GLY:O	57:n1:143:THR:HB	2.18	0.43
44:l7:123:THR:HA	44:l7:126:LEU:HD12	2.01	0.43
50:m4:60:LEU:HD23	50:m4:60:LEU:HA	1.88	0.43
52:m6:108:ILE:HG12	52:m6:108:ILE:O	2.19	0.43
54:m8:178:ARG:HA	54:m8:178:ARG:HD2	1.75	0.43
55:m9:175:GLN:HG3	55:m9:179:GLU:OE2	2.18	0.43
65:n9:58:LYS:NZ	65:n9:58:LYS:HA	2.33	0.43
88:p0:198:PRO:HG2	88:p0:201:UNK:N	2.33	0.43
1:2:154:G:H5'	8:S6:108:VAL:HG21	2.01	0.42
1:2:591:A:H5"	11:S9:24:LEU:HD22	2.00	0.42
1:2:1172:G:C5	1:2:1173:C:C4	3.07	0.42
1:2:1699:G:C2	1:2:1701:A:H5"	2.54	0.42
2:S0:29:VAL:HG13	2:S0:150:ASP:HB3	2.01	0.42
2:S0:75:ALA:C	2:S0:76:ILE:HG12	2.43	0.42
5:S3:8:LYS:HB3	22:D0:63:LEU:HD11	2.00	0.42
7:S5:225:ARG:CZ	30:D8:58:GLU:HG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	2.00	0.42
12:C0:72:GLY:O	12:C0:76:LEU:HD22	2.19	0.42
16:C4:81:VAL:HG22	16:C4:115:ILE:HB	2.01	0.42
21:C9:45:MET:HE3	21:C9:46:PRO:HD2	2.01	0.42
22:D0:93:LEU:HD23	22:D0:93:LEU:HA	1.90	0.42
28:D6:79:ILE:HG23	28:D6:84:VAL:HG11	2.00	0.42
28:D6:82:ARG:HB3	28:D6:83:ILE:H	1.63	0.42
34:SR:232:TYR:CE1	34:SR:234:LEU:HD11	2.54	0.42
34:SR:274:LEU:HD13	34:SR:313:TRP:CE2	2.54	0.42
36:1:1229:G:H2'	36:1:1230:G:C8	2.53	0.42
36:1:1307:G:C4	52:M6:60:LYS:HD3	2.54	0.42
36:1:2882:U:H2'	36:1:2883:U:O4'	2.19	0.42
36:1:3299:A:C5	36:1:3300:U:C5	3.07	0.42
92:1:4102:OHX:N1	43:L6:29:LYS:O	2.52	0.42
92:1:4124:OHX:N6	92:1:4487:OHX:N6	2.67	0.42
39:L2:65:ASP:HB3	39:L2:68:LYS:O	2.19	0.42
40:L3:296:THR:H	40:L3:299:ASP:HB3	1.84	0.42
44:L7:25:GLN:O	44:L7:28:ALA:N	2.52	0.42
48:M1:32:ARG:O	48:M1:36:VAL:HG23	2.19	0.42
48:M1:138:VAL:HG22	48:M1:141:ARG:NH2	2.34	0.42
48:M1:162:TRP:CH2	48:M1:167:TYR:HE1	2.37	0.42
62:N6:116:LYS:O	62:N6:120:GLN:HG3	2.19	0.42
74:O8:30:LYS:O	74:O8:38:PHE:N	2.47	0.42
74:O8:69:LEU:HD13	74:O8:69:LEU:HA	1.87	0.42
1:6:328:A:H2'	1:6:329:G:O4'	2.19	0.42
1:6:914:G:H8	1:6:914:G:OP2	2.01	0.42
1:6:1490:C:OP1	1:6:1514:U:H5	2.02	0.42
1:6:1541:G:C6	1:6:1542:G:N1	2.86	0.42
6:s4:231:GLN:C	6:s4:233:LYS:H	2.27	0.42
10:s8:9:HIS:C	10:s8:9:HIS:ND1	2.76	0.42
11:s9:109:LEU:HD23	11:s9:109:LEU:HA	1.90	0.42
24:d2:89:TRP:O	24:d2:92:ASN:N	2.47	0.42
29:d7:41:LEU:HD23	29:d7:41:LEU:H	1.82	0.42
83:sR:88:THR:HG21	83:sR:102:ARG:NH2	2.34	0.42
84:sM:58:GLU:OE2	84:sM:62:ARG:HD2	2.19	0.42
36:5:195:U:OP2	92:5:4564:OHX:N6	2.52	0.42
36:5:268:A:C5	51:m5:12:ARG:HG3	2.53	0.42
36:5:278:U:H2'	36:5:279:U:H6	1.84	0.42
36:5:1103:A:H3'	36:5:1104:G:H5'	2.00	0.42
36:5:1386:A:N3	41:l4:180:LYS:HA	2.33	0.42
36:5:2211:U:H5	36:5:2234:G:O6	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3364:C:H2'	36:5:3365:U:H6	1.84	0.42
40:l3:14:LEU:HD13	40:l3:262:TRP:CH2	2.54	0.42
41:l4:26:PHE:HE2	41:l4:258:LEU:CD2	2.32	0.42
42:l5:196:ARG:HA	42:l5:199:ILE:HD12	2.00	0.42
43:l6:31:ARG:NH2	43:l6:81:ALA:O	2.52	0.42
52:m6:34:VAL:HB	52:m6:103:LYS:HB2	2.01	0.42
54:m8:33:TYR:CE1	54:m8:36:LEU:HD12	2.54	0.42
54:m8:148:GLU:O	54:m8:151:ARG:HG3	2.19	0.42
64:n8:28:HIS:CE1	64:n8:32:ARG:HG2	2.54	0.42
66:o0:40:LYS:HD3	66:o0:93:LEU:O	2.18	0.42
1:2:86:A:N3	1:2:147:A:H2	2.17	0.42
1:2:826:U:H2'	1:2:827:C:C6	2.54	0.42
1:2:868:G:C2	1:2:869:A:C8	3.07	0.42
1:2:976:G:O6	92:2:2096:OHX:N3	2.52	0.42
1:2:1389:C:O3'	19:C7:49:LYS:HG3	2.19	0.42
4:S2:245:ASP:OD1	4:S2:245:ASP:N	2.44	0.42
15:C3:15:ALA:HB2	29:D7:20:LYS:HG3	2.00	0.42
15:C3:22:ALA:HB1	15:C3:23:PRO:CA	2.50	0.42
16:C4:89:THR:O	16:C4:128:LYS:HE2	2.19	0.42
17:C5:128:HIS:HB2	35:SM:71:ASN:CG	2.44	0.42
19:C7:66:VAL:O	19:C7:69:ILE:HG12	2.19	0.42
20:C8:91:ASP:OD1	20:C8:92:ILE:N	2.52	0.42
23:D1:17:CYS:HB2	23:D1:56:SER:HB3	2.01	0.42
25:D3:23:ARG:HD2	25:D3:26:GLU:OE1	2.19	0.42
36:1:250:U:C5	36:1:251:G:C8	3.07	0.42
36:1:786:A:H4'	36:1:787:G:H5'	2.01	0.42
36:1:789:A:H2'	36:1:790:U:H6	1.83	0.42
36:1:814:U:H5'	73:O7:45:ARG:NH1	2.34	0.42
36:1:1103:A:H62	36:1:1363:A:H1'	1.84	0.42
36:1:1148:G:N7	92:1:4418:OHX:N4	2.67	0.42
36:1:1493:G:O6	75:O9:2:ALA:HA	2.19	0.42
36:1:1552:G:OP2	92:1:4381:OHX:N6	2.51	0.42
36:1:1569:U:H5"	36:1:1570:U:H6	1.84	0.42
36:1:1658:G:H2'	36:1:1659:U:O4'	2.19	0.42
36:1:1661:G:H2'	36:1:1662:G:C8	2.54	0.42
36:1:2565:U:H2'	36:1:2566:C:C6	2.54	0.42
36:1:2611:U:H2'	36:1:2612:U:H6	1.83	0.42
36:1:3024:A:C6	36:1:3032:A:C8	3.07	0.42
37:3:22:A:H5"	37:3:23:A:OP2	2.18	0.42
40:L3:116:ARG:HD3	40:L3:122:TRP:CG	2.53	0.42
40:L3:292:ALA:HB1	40:L3:295:ALA:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:5:LYS:O	92:L5:301:OHX:N6	2.52	0.42
42:L5:91:GLY:O	42:L5:94:ASN:ND2	2.52	0.42
42:L5:294:ALA:HB1	47:M0:217:PHE:HB3	2.00	0.42
43:L6:67:GLY:HA3	43:L6:68:PRO:C	2.44	0.42
43:L6:159:LEU:HD23	43:L6:159:LEU:HA	1.67	0.42
45:L8:73:PRO:HD3	45:L8:233:TRP:CE2	2.54	0.42
45:L8:84:ARG:HE	45:L8:84:ARG:H	1.66	0.42
46:L9:118:LEU:HA	46:L9:118:LEU:HD23	1.70	0.42
52:M6:42:ASN:HA	52:M6:136:THR:O	2.19	0.42
64:N8:6:THR:HG22	64:N8:9:ARG:HG2	2.01	0.42
64:N8:14:HIS:ND1	64:N8:14:HIS:N	2.67	0.42
64:N8:134:ALA:O	64:N8:138:ILE:HG13	2.19	0.42
69:O3:24:ASN:OD1	69:O3:26:ASN:HB2	2.18	0.42
1:6:385:A:OP1	10:s8:25:ARG:NH1	2.52	0.42
1:6:427:C:O2'	1:6:459:G:N3	2.44	0.42
1:6:470:A:H8	1:6:470:A:H5"	1.83	0.42
1:6:486:G:O2'	1:6:487:G:H5'	2.19	0.42
1:6:880:C:OP2	92:6:2205:OHX:N2	2.51	0.42
1:6:1390:U:H6	1:6:1412:G:H1'	1.84	0.42
92:6:2151:OHX:N4	3:s1:157:GLN:OE1	2.51	0.42
5:s3:29:LEU:HD22	5:s3:58:VAL:HG22	2.01	0.42
5:s3:127:MET:HE1	5:s3:133:GLY:HA2	2.00	0.42
10:s8:67:TRP:HA	10:s8:183:ILE:HG23	2.00	0.42
10:s8:73:SER:O	10:s8:74:LYS:HD2	2.19	0.42
18:c6:112:TYR:CE1	18:c6:114:ARG:HD2	2.54	0.42
21:c9:35:ASP:OD2	21:c9:36:ILE:HG23	2.18	0.42
23:d1:55:LEU:HD23	23:d1:55:LEU:HA	1.75	0.42
24:d2:3:ARG:NH1	24:d2:9:ASP:OD2	2.51	0.42
25:d3:23:ARG:O	25:d3:26:GLU:HB2	2.19	0.42
25:d3:132:LEU:HD23	25:d3:132:LEU:HA	1.83	0.42
30:d8:11:LYS:O	30:d8:31:GLU:N	2.52	0.42
84:sM:51:ARG:HA	84:sM:51:ARG:CZ	2.49	0.42
36:5:308:A:H5'	36:5:2223:A:O2'	2.19	0.42
36:5:1522:U:H3'	61:n5:113:LEU:HD22	2.01	0.42
36:5:1538:G:N7	92:5:4553:OHX:N1	2.67	0.42
36:5:2717:U:OP1	92:5:4325:OHX:N3	2.52	0.42
36:5:3028:G:H2'	36:5:3029:A:C8	2.53	0.42
37:7:55:A:N3	48:m1:152:HIS:HE1	2.18	0.42
40:l3:53:MET:HE1	40:l3:327:CYS:HB3	2.00	0.42
40:l3:105:VAL:HG11	40:l3:148:LEU:HD13	2.01	0.42
41:l4:264:SER:C	41:l4:266:THR:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:144:VAL:HG12	42:l5:173:VAL:HG22	2.01	0.42
42:l5:204:VAL:O	42:l5:208:MET:HG3	2.19	0.42
42:l5:296:GLN:HG2	47:m0:214:PRO:HB3	2.00	0.42
43:l6:91:VAL:HG23	43:l6:92:SER:O	2.19	0.42
85:l8:151:VAL:HG22	85:l8:199:ALA:HB1	2.01	0.42
46:l9:106:LYS:HA	46:l9:106:LYS:HD2	1.76	0.42
50:m4:14:LEU:HB2	50:m4:19:ARG:HH11	1.83	0.42
50:m4:113:THR:HG22	50:m4:114:ASP:N	2.33	0.42
55:m9:171:ASP:OD1	55:m9:171:ASP:N	2.52	0.42
87:n4:6:ASP:HA	87:n4:13:ILE:HD11	2.01	0.42
67:o1:16:LEU:HA	67:o1:16:LEU:HD12	1.73	0.42
88:p0:11:TYR:CE1	88:p0:15:LEU:HD12	2.55	0.42
1:2:77:U:O4	8:S6:170:THR:HG21	2.19	0.42
1:2:129:U:O2	92:2:2080:OHX:N1	2.52	0.42
7:S5:43:PHE:HA	7:S5:68:ILE:O	2.20	0.42
8:S6:147:LEU:O	8:S6:148:SER:OG	2.27	0.42
10:S8:106:ALA:O	10:S8:109:PHE:N	2.51	0.42
11:S9:13:SER:O	11:S9:43:TYR:HB3	2.19	0.42
11:S9:40:LYS:HB2	11:S9:40:LYS:HE3	1.80	0.42
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.52	0.42
14:C2:136:ILE:O	14:C2:140:PHE:HB2	2.18	0.42
15:C3:136:PRO:HA	15:C3:137:PRO:HD2	1.84	0.42
20:C8:100:THR:HG21	20:C8:108:LYS:HG3	2.01	0.42
21:C9:137:ALA:O	21:C9:141:GLU:HG2	2.19	0.42
22:D0:52:LYS:HA	22:D0:92:ASP:O	2.18	0.42
24:D2:86:ILE:H	24:D2:86:ILE:HG13	1.59	0.42
25:D3:130:VAL:HG11	25:D3:143:PRO:HD3	2.02	0.42
34:SR:48:THR:HB	34:SR:50:ASP:OD1	2.20	0.42
36:1:200:C:OP1	62:N6:60:ARG:NH1	2.52	0.42
36:1:1095:U:N3	57:N1:127:GLN:HG2	2.34	0.42
36:1:1347:U:H4'	41:L4:305:ALA:HB2	2.01	0.42
36:1:1549:U:H2'	36:1:1550:C:H6	1.83	0.42
36:1:1804:A:H5'	70:O4:70:LYS:HD2	2.01	0.42
36:1:1940:G:N2	36:1:3362:A:H8	2.14	0.42
36:1:1941:C:O2'	36:1:3344:A:N6	2.47	0.42
36:1:1950:U:H3	36:1:2096:A:H2	1.67	0.42
36:1:2148:U:H2'	36:1:2149:A:C4	2.55	0.42
36:1:2876:C:H4'	90:A:75:C:O2'	2.19	0.42
36:1:2900:A:N3	36:1:3025:C:O2'	2.46	0.42
36:1:3119:U:H5"	36:1:3120:C:OP2	2.19	0.42
36:1:3143:C:O2	92:1:4442:OHX:N2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:22:A:H1'	42:L5:272:TYR:CE1	2.54	0.42
37:3:42:A:C5	37:3:43:U:C5	3.07	0.42
40:L3:46:PHE:CZ	40:L3:84:VAL:HG13	2.54	0.42
40:L3:98:GLY:HA2	52:M6:149:TYR:CE1	2.54	0.42
42:L5:104:LEU:HD11	42:L5:108:ARG:NH2	2.34	0.42
44:L7:38:LYS:HE3	44:L7:38:LYS:HB2	1.71	0.42
46:L9:176:LEU:HD13	76:Q0:86:ALA:HB3	2.02	0.42
48:M1:82:ARG:CG	48:M1:112:LEU:HB2	2.50	0.42
48:M1:82:ARG:HG3	48:M1:112:LEU:HB2	2.02	0.42
49:M3:115:ARG:NH1	49:M3:147:ILE:HG12	2.34	0.42
50:M4:32:LEU:HD11	50:M4:94:TRP:CD1	2.54	0.42
52:M6:73:PHE:CB	52:M6:78:ARG:HG2	2.49	0.42
52:M6:110:PRO:HA	52:M6:113:ASP:OD2	2.19	0.42
53:M7:10:ASN:HD22	53:M7:13:LYS:HZ3	1.66	0.42
54:M8:23:ASN:OD1	54:M8:25:TYR:N	2.53	0.42
55:M9:45:VAL:HG22	55:M9:50:ILE:HB	2.00	0.42
56:N0:77:VAL:HG13	56:N0:126:VAL:CG2	2.49	0.42
73:O7:18:LEU:HD21	75:O9:51:ILE:HG22	2.01	0.42
1:6:15:U:C4	1:6:16:G:C5	3.07	0.42
1:6:449:C:OP1	6:s4:29:PRO:O	2.36	0.42
1:6:485:A:C6	1:6:486:G:H1'	2.54	0.42
1:6:765:G:C6	11:s9:149:ARG:HD2	2.54	0.42
1:6:778:G:N2	1:6:780:A:H5'	2.34	0.42
1:6:863:A:H3'	1:6:863:A:OP2	2.19	0.42
1:6:1166:A:H2'	1:6:1167:G:O4'	2.20	0.42
1:6:1341:A:OP1	83:sR:63:GLY:HA2	2.19	0.42
1:6:1460:A:N7	82:c5:128:HIS:HB3	2.34	0.42
2:s0:105:GLY:N	2:s0:135:GLU:OE2	2.48	0.42
3:s1:135:LEU:HD21	3:s1:217:LEU:HD12	2.01	0.42
5:s3:218:LEU:HD23	5:s3:218:LEU:HA	1.90	0.42
6:s4:87:MET:SD	6:s4:123:LEU:HB2	2.59	0.42
9:s7:15:GLU:O	9:s7:19:GLN:HG3	2.19	0.42
21:c9:38:LYS:O	21:c9:39:THR:OG1	2.25	0.42
36:5:79:U:OP2	92:5:4217:OHX:N4	2.52	0.42
36:5:172:G:H2'	36:5:172:G:N3	2.34	0.42
36:5:194:U:H2'	36:5:195:U:H6	1.84	0.42
36:5:797:U:O2'	36:5:798:G:H5'	2.18	0.42
36:5:1037:C:H2'	36:5:1038:C:H6	1.85	0.42
36:5:1860:G:O6	92:5:4311:OHX:N2	2.52	0.42
36:5:2385:G:OP1	92:5:4541:OHX:N2	2.52	0.42
36:5:2890:A:H61	36:5:2913:C:H42	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2941:A:H8	36:5:2941:A:OP2	2.02	0.42
36:5:3273:A:O2'	36:5:3274:A:H5'	2.20	0.42
36:5:3328:G:C2	36:5:3379:C:C2	3.08	0.42
92:5:4163:OHX:N6	38:8:16:G:O6	2.52	0.42
43:l6:40:LEU:HB3	43:l6:84:VAL:HG13	2.00	0.42
43:l6:170:LYS:HB3	43:l6:172:HIS:CE1	2.53	0.42
44:l7:83:LEU:HD22	44:l7:84:VAL:H	1.83	0.42
85:l8:99:PRO:HG2	85:l8:190:VAL:HG13	2.02	0.42
46:l9:161:LEU:O	46:l9:161:LEU:HD22	2.19	0.42
48:m1:7:ASN:OD1	48:m1:7:ASN:N	2.53	0.42
48:m1:96:PHE:CD1	48:m1:160:VAL:HG23	2.54	0.42
50:m4:58:ILE:HD13	50:m4:63:VAL:HG23	2.01	0.42
51:m5:115:VAL:HG22	51:m5:134:LEU:HD23	2.02	0.42
68:o2:7:PRO:O	68:o2:8:LYS:C	2.62	0.42
1:2:301:A:H2'	1:2:302:U:O4'	2.19	0.42
1:2:478:A:HO2'	11:S9:124:HIS:HD1	1.60	0.42
1:2:556:A:N3	1:2:590:C:H1'	2.35	0.42
1:2:1119:G:C6	1:2:1120:U:C4	3.07	0.42
1:2:1557:U:OP2	1:2:1559:A:O2'	2.22	0.42
3:S1:176:VAL:C	3:S1:178:GLY:N	2.77	0.42
4:S2:49:LYS:HA	4:S2:49:LYS:HD3	1.90	0.42
8:S6:58:LYS:C	8:S6:60:GLY:H	2.26	0.42
9:S7:27:LEU:HD22	9:S7:80:GLU:HG2	2.01	0.42
9:S7:143:LEU:HD21	9:S7:149:ILE:HD12	2.01	0.42
10:S8:70:GLU:HG3	10:S8:112:TRP:CH2	2.54	0.42
11:S9:109:LEU:HD22	11:S9:109:LEU:O	2.20	0.42
16:C4:81:VAL:HG11	16:C4:102:LEU:HD21	2.01	0.42
21:C9:5:SER:OG	21:C9:66:TYR:OH	2.22	0.42
27:D5:96:SER:O	27:D5:98:GLN:N	2.50	0.42
36:1:290:G:H1'	51:M5:93:LYS:HD3	2.00	0.42
36:1:841:A:OP2	92:1:4430:OHX:N2	2.52	0.42
36:1:916:G:O2'	36:1:917:A:H5"	2.18	0.42
36:1:1653:G:H2'	36:1:1654:A:O4'	2.20	0.42
36:1:1734:G:OP2	92:1:4500:OHX:N2	2.53	0.42
36:1:2714:G:H4'	36:1:2715:A:O5'	2.19	0.42
36:1:3269:U:H1'	92:1:4486:OHX:N6	2.34	0.42
39:L2:43:GLY:O	39:L2:87:PHE:HA	2.20	0.42
41:L4:63:GLU:O	41:L4:75:PRO:HA	2.19	0.42
48:M1:89:TYR:HB3	48:M1:169:ALA:CB	2.50	0.42
49:M3:131:LYS:NZ	49:M3:131:LYS:HB3	2.35	0.42
53:M7:116:HIS:O	53:M7:148:LEU:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:102:ALA:HA	54:M8:122:ILE:O	2.19	0.42
54:M8:154:GLY:O	54:M8:159:LYS:NZ	2.44	0.42
55:M9:165:LYS:HE3	55:M9:165:LYS:HB2	1.88	0.42
70:O4:56:THR:HA	70:O4:62:TYR:OH	2.19	0.42
73:O7:14:LYS:HZ1	75:O9:51:ILE:HD11	1.83	0.42
79:Q3:10:ILE:O	79:Q3:13:LYS:HG2	2.20	0.42
1:6:525:A:C6	1:6:526:A:C6	3.08	0.42
1:6:775:G:C2	1:6:786:C:C4	3.07	0.42
1:6:804:A:C8	24:d2:107:SER:HA	2.53	0.42
1:6:1230:A:H2	1:6:1255:G:N2	2.16	0.42
1:6:1691:A:H2'	1:6:1692:G:C8	2.54	0.42
3:s1:125:VAL:HG11	3:s1:173:THR:HG23	2.01	0.42
3:s1:213:ARG:HH22	3:s1:214:LYS:HD2	1.84	0.42
4:s2:56:ILE:O	4:s2:60:SER:N	2.52	0.42
10:s8:110:ARG:NH2	10:s8:160:PHE:HB3	2.34	0.42
11:s9:111:THR:O	11:s9:115:LYS:HB2	2.19	0.42
25:d3:133:LEU:HD23	25:d3:133:LEU:HA	1.73	0.42
36:5:136:G:N2	36:5:137:G:C4	2.87	0.42
36:5:192:C:C2	36:5:204:A:C2	3.06	0.42
36:5:1263:A:N3	36:5:1263:A:H2'	2.35	0.42
36:5:1366:A:H2'	36:5:1367:G:C8	2.54	0.42
36:5:1621:A:H2'	36:5:1622:U:H6	1.82	0.42
36:5:2144:A:C4	36:5:2281:A:C6	3.08	0.42
36:5:3097:C:OP1	40:l3:349:LYS:NZ	2.53	0.42
39:l2:66:PRO:HB2	39:l2:67:TYR:CE2	2.55	0.42
39:l2:116:VAL:HG11	39:l2:134:VAL:HG11	2.02	0.42
41:l4:22:LEU:HD23	41:l4:22:LEU:HA	1.91	0.42
43:l6:54:TYR:OH	43:l6:57:HIS:HB2	2.20	0.42
49:m3:116:LEU:HA	49:m3:116:LEU:HD23	1.79	0.42
56:n0:134:ASP:O	56:n0:136:LYS:HE3	2.19	0.42
57:n1:83:ARG:HD2	57:n1:85:LEU:HD21	2.02	0.42
59:n3:30:GLY:HA3	59:n3:66:LYS:HG3	2.02	0.42
59:n3:87:ARG:HH22	59:n3:137:VAL:CG2	2.27	0.42
87:n4:112:ASN:HA	87:n4:115:LYS:HG3	2.01	0.42
63:n7:6:LYS:O	63:n7:7:ALA:C	2.62	0.42
1:2:427:C:O2'	1:2:459:G:N3	2.43	0.42
1:2:730:G:H2'	1:2:730:G:N3	2.34	0.42
1:2:1182:U:O2	1:2:1184:A:H8	2.02	0.42
1:2:1565:C:OP1	20:C8:41:ARG:HG3	2.19	0.42
4:S2:86:VAL:O	4:S2:96:THR:HA	2.19	0.42
6:S4:103:TYR:O	6:S4:182:TYR:OH	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:131:LYS:O	60:N4:82:ILE:HA	2.20	0.42
16:C4:29:HIS:O	16:C4:29:HIS:CG	2.72	0.42
22:D0:58:LEU:HD12	22:D0:88:LYS:HD2	2.01	0.42
28:D6:18:VAL:HG21	28:D6:33:ASP:OD1	2.20	0.42
29:D7:61:THR:O	29:D7:62:ILE:HB	2.19	0.42
32:E0:50:VAL:O	32:E0:50:VAL:HG13	2.18	0.42
34:SR:214:ALA:HB2	34:SR:220:ILE:HA	2.02	0.42
34:SR:245:PHE:O	34:SR:294:TRP:CD1	2.72	0.42
35:SM:72:ARG:HD2	35:SM:72:ARG:HA	1.67	0.42
35:SM:89:ARG:C	35:SM:91:THR:N	2.78	0.42
36:1:535:G:C2	36:1:555:U:C2	3.08	0.42
36:1:835:G:O2'	36:1:857:G:N2	2.33	0.42
36:1:1080:A:P	42:L5:140:ARG:NH2	2.92	0.42
36:1:1668:G:C6	36:1:1669:C:C4	3.08	0.42
36:1:2211:U:H2'	36:1:2212:C:O4'	2.20	0.42
36:1:2318:U:O4	92:1:4274:OHX:N2	2.53	0.42
36:1:2424:A:H2'	36:1:2425:G:O4'	2.19	0.42
36:1:2547:A:C6	36:1:2548:C:C2	3.07	0.42
36:1:2640:A:H2'	36:1:2641:U:C6	2.54	0.42
36:1:3070:A:C5	36:1:3071:U:C5	3.07	0.42
36:1:3082:C:H2'	36:1:3083:G:C8	2.54	0.42
36:1:3103:A:N6	92:1:4491:OHX:N3	2.68	0.42
36:1:3174:A:H2'	36:1:3175:U:O4'	2.20	0.42
40:L3:28:ARG:HH21	40:L3:30:LYS:HE2	1.85	0.42
40:L3:227:GLU:CG	40:L3:232:ARG:HB2	2.47	0.42
41:L4:107:ARG:HD2	41:L4:109:TRP:CH2	2.55	0.42
43:L6:72:ASN:HB3	43:L6:160:SER:HA	2.00	0.42
44:L7:80:GLN:CD	57:N1:136:ARG:HG3	2.44	0.42
44:L7:110:ARG:CZ	54:M8:3:ILE:HG12	2.49	0.42
45:L8:164:VAL:O	45:L8:167:PRO:HD2	2.20	0.42
48:M1:54:VAL:HG11	48:M1:57:PHE:CG	2.54	0.42
52:M6:124:LEU:HD12	52:M6:124:LEU:HA	1.52	0.42
55:M9:92:GLN:O	55:M9:96:ILE:HG13	2.19	0.42
62:N6:112:ASP:HB2	62:N6:115:ARG:H	1.83	0.42
63:N7:29:HIS:O	63:N7:31:GLU:N	2.52	0.42
63:N7:60:LYS:O	63:N7:64:LYS:HE2	2.20	0.42
64:N8:130:VAL:HG21	64:N8:135:GLU:HG3	2.02	0.42
68:O2:8:LYS:HE3	68:O2:8:LYS:HB2	1.80	0.42
68:O2:72:LYS:O	68:O2:92:TYR:HA	2.20	0.42
73:O7:55:ARG:C	73:O7:57:HIS:H	2.28	0.42
73:O7:87:SER:C	92:O7:107:OHX:N3	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:228:G:H2'	1:6:229:U:O4'	2.18	0.42
1:6:959:U:H5"	29:d7:28:PRO:HB3	2.00	0.42
1:6:1067:C:H5"	3:s1:150:VAL:CG1	2.47	0.42
1:6:1696:G:H8	1:6:1696:G:H5"	1.84	0.42
6:s4:252:ARG:NH2	6:s4:252:ARG:HB3	2.34	0.42
11:s9:66:ASP:OD2	11:s9:68:LYS:N	2.52	0.42
80:c0:32:HIS:CD2	80:c0:33:GLU:HG2	2.54	0.42
15:c3:140:LYS:HE3	36:5:847:A:OP1	2.19	0.42
28:d6:30:ILE:HG12	28:d6:34:LYS:HB3	2.01	0.42
83:sR:33:LEU:O	83:sR:45:TRP:HD1	2.01	0.42
36:5:874:U:H5"	36:5:2950:G:OP1	2.20	0.42
36:5:1751:G:H5"	74:o8:26:LYS:HE2	2.02	0.42
36:5:1863:G:N1	36:5:1866:C:OP2	2.39	0.42
36:5:1890:U:C2	36:5:1891:A:C8	3.07	0.42
36:5:1940:G:N2	36:5:3362:A:H8	2.17	0.42
36:5:2436:U:H3	36:5:2511:A:N6	2.17	0.42
36:5:2900:A:N3	36:5:3025:C:O2'	2.51	0.42
41:l4:141:ARG:O	41:l4:144:LYS:NZ	2.52	0.42
49:m3:56:PRO:O	49:m3:71:ALA:HA	2.20	0.42
51:m5:120:TRP:HZ2	51:m5:123:GLN:HG2	1.85	0.42
54:m8:83:VAL:O	54:m8:83:VAL:HG12	2.19	0.42
55:m9:15:VAL:HG11	55:m9:52:LYS:HB2	2.01	0.42
63:n7:15:ARG:C	63:n7:19:ALA:HB2	2.44	0.42
71:o5:41:LEU:O	71:o5:44:ILE:HG22	2.20	0.42
77:q1:6:ARG:O	77:q1:10:THR:HG23	2.20	0.42
78:q2:38:GLN:O	78:q2:38:GLN:NE2	2.32	0.42
88:p0:97:LYS:HG3	88:p0:98:ASN:N	2.33	0.42
1:2:119:A:H2'	1:2:120:U:O4'	2.19	0.42
1:2:238:U:O2'	1:2:239:C:H5'	2.19	0.42
1:2:735:C:O2'	1:2:736:C:H5"	2.20	0.42
2:S0:120:LEU:HD12	2:S0:121:VAL:H	1.84	0.42
3:S1:61:LEU:HD23	3:S1:62:LYS:H	1.85	0.42
3:S1:143:THR:HB	3:S1:205:PHE:HE1	1.85	0.42
5:S3:142:LEU:HD12	5:S3:142:LEU:HA	1.91	0.42
13:C1:78:THR:HG22	13:C1:84:ILE:HG22	2.00	0.42
17:C5:47:ARG:H	17:C5:47:ARG:HG3	1.66	0.42
20:C8:99:HIS:HD2	20:C8:101:LEU:HD21	1.85	0.42
28:D6:66:LYS:HE2	28:D6:66:LYS:HB2	1.94	0.42
29:D7:50:ALA:HB2	29:D7:71:ALA:HB2	2.02	0.42
31:D9:6:VAL:HG23	31:D9:7:TRP:CE3	2.54	0.42
36:1:209:A:H4'	36:1:211:A:N7	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2680:A:C2	48:M1:24:GLY:HA2	2.55	0.42
36:1:3308:C:O2	53:M7:69:ARG:HD3	2.18	0.42
42:L5:187:THR:O	42:L5:189:GLU:N	2.52	0.42
44:L7:76:TYR:HE2	44:L7:78:GLU:HG2	1.85	0.42
45:L8:71:VAL:HG12	45:L8:76:ALA:HB2	2.02	0.42
45:L8:116:VAL:HG13	45:L8:121:SER:O	2.19	0.42
46:L9:16:VAL:HA	46:L9:28:VAL:O	2.20	0.42
48:M1:94:ARG:C	48:M1:96:PHE:N	2.76	0.42
62:N6:34:PRO:HA	62:N6:47:ALA:HB2	2.00	0.42
64:N8:74:ASN:HB2	64:N8:76:ASP:CB	2.44	0.42
1:6:127:G:N7	8:s6:202:ARG:NH2	2.68	0.42
1:6:224:C:H2'	1:6:225:A:C8	2.54	0.42
1:6:765:G:N7	11:s9:149:ARG:HD2	2.34	0.42
1:6:904:G:C6	1:6:905:A:C5	3.07	0.42
1:6:1003:A:H1'	1:6:1005:A:N7	2.34	0.42
1:6:1207:C:N4	1:6:1456:C:H5	2.15	0.42
1:6:1609:U:O2'	7:s5:105:GLY:O	2.29	0.42
3:s1:193:ILE:HG22	3:s1:197:ILE:HD13	2.02	0.42
5:s3:23:GLU:OE2	80:c0:61:TRP:NE1	2.47	0.42
7:s5:65:ARG:HA	7:s5:65:ARG:NE	2.35	0.42
7:s5:194:LEU:HD23	7:s5:194:LEU:HA	1.82	0.42
21:c9:33:TYR:HB2	21:c9:36:ILE:HG12	2.00	0.42
21:c9:65:ILE:HD11	21:c9:105:LEU:HD21	2.02	0.42
22:d0:96:PRO:O	22:d0:100:VAL:HG23	2.19	0.42
24:d2:26:LEU:HD12	24:d2:27:ILE:H	1.85	0.42
24:d2:98:GLN:H	24:d2:98:GLN:HG2	1.70	0.42
25:d3:126:LYS:HB3	25:d3:130:VAL:O	2.19	0.42
26:d4:20:ARG:HH11	26:d4:22:GLN:HE21	1.66	0.42
83:sR:198:ASN:O	83:sR:215:GLY:HA3	2.19	0.42
36:5:65:A:H4'	36:5:66:A:O5'	2.18	0.42
36:5:94:G:H2'	36:5:95:A:H8	1.79	0.42
36:5:897:U:H2'	36:5:898:U:C6	2.55	0.42
36:5:1483:G:C8	36:5:1485:G:C8	3.08	0.42
36:5:1729:A:H4'	36:5:1730:G:OP2	2.20	0.42
36:5:1770:G:H5'	36:5:1771:C:OP2	2.19	0.42
36:5:1949:G:H5"	55:m9:104:ARG:NH1	2.34	0.42
36:5:2586:G:O2'	85:l8:241:LYS:HE2	2.20	0.42
37:7:27:A:C2	37:7:28:C:C2	3.08	0.42
42:l5:226:TYR:CE1	42:l5:236:LEU:HD11	2.41	0.42
43:l6:129:GLU:HG2	43:l6:130:ILE:H	1.85	0.42
43:l6:176:PHE:H	50:m4:117:ARG:NH2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:188:THR:O	46:l9:189:GLU:HB2	2.20	0.42
47:m0:38:LYS:CG	47:m0:41:ALA:HB2	2.40	0.42
47:m0:142:ASP:OD2	47:m0:178:ARG:NH2	2.52	0.42
50:m4:114:ASP:HA	50:m4:117:ARG:NH1	2.34	0.42
52:m6:182:ASN:O	52:m6:185:ALA:N	2.52	0.42
56:n0:124:LEU:HD23	57:n1:153:PRO:HB2	2.01	0.42
59:n3:80:ARG:NH1	59:n3:116:GLY:HA3	2.34	0.42
63:n7:54:THR:HG22	63:n7:57:HIS:CE1	2.54	0.42
67:o1:46:THR:HG23	67:o1:47:ASP:N	2.34	0.42
72:o6:51:SER:O	72:o6:55:ARG:HG3	2.19	0.42
72:o6:58:ILE:HG22	72:o6:90:MET:HG3	2.02	0.42
1:2:1237:G:N2	1:2:1249:U:C2	2.88	0.42
1:2:1580:C:H2'	1:2:1581:C:O4'	2.20	0.42
1:2:1615:C:C5	7:S5:81:ARG:HA	2.54	0.42
4:S2:144:TRP:NE1	24:D2:97:ARG:HD2	2.35	0.42
5:S3:12:VAL:O	5:S3:16:VAL:HG23	2.19	0.42
14:C2:41:LEU:HD23	14:C2:41:LEU:HA	1.78	0.42
17:C5:26:LEU:HA	17:C5:26:LEU:HD12	1.76	0.42
26:D4:104:SER:HB3	26:D4:107:GLN:HB2	2.01	0.42
33:E1:102:VAL:HG22	33:E1:103:LEU:N	2.35	0.42
36:1:95:A:C5	36:1:96:G:H1'	2.55	0.42
36:1:1492:G:O3'	75:O9:48:LYS:NZ	2.50	0.42
36:1:1807:G:C6	36:1:1808:G:N1	2.87	0.42
36:1:2281:A:N3	36:1:2974:U:O2'	2.46	0.42
41:L4:162:THR:OG1	41:L4:218:ALA:O	2.32	0.42
42:L5:56:THR:O	42:L5:58:LYS:N	2.47	0.42
42:L5:206:GLN:O	42:L5:210:GLU:HG3	2.20	0.42
45:L8:144:GLU:OE1	51:M5:6:TYR:OH	2.25	0.42
46:L9:22:SER:OG	46:L9:23:ARG:N	2.53	0.42
47:M0:47:PRO:HB3	47:M0:171:TRP:CE2	2.54	0.42
48:M1:37:LEU:HD23	48:M1:125:MET:HE2	2.00	0.42
48:M1:91:LEU:HD22	48:M1:95:ASN:HD22	1.85	0.42
51:M5:35:VAL:O	51:M5:64:VAL:HA	2.19	0.42
55:M9:23:TRP:HB3	55:M9:51:VAL:HG22	2.02	0.42
55:M9:106:LEU:HB3	55:M9:120:TYR:CE1	2.54	0.42
61:N5:113:LEU:HD12	61:N5:113:LEU:C	2.44	0.42
62:N6:79:ALA:HB1	62:N6:98:ASN:HB3	2.00	0.42
73:O7:5:THR:HA	73:O7:8:PHE:HD2	1.84	0.42
1:6:189:C:O5'	1:6:189:C:H6	2.02	0.42
1:6:477:A:N7	1:6:538:A:N1	2.68	0.42
1:6:814:A:H2'	55:m9:170:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:109:ASN:H	4:s2:64:LYS:HZ2	1.66	0.42
2:s0:153:SER:O	2:s0:156:VAL:HG22	2.19	0.42
3:s1:154:SER:O	3:s1:154:SER:OG	2.29	0.42
4:s2:174:ARG:O	11:s9:97:LEU:HB3	2.19	0.42
10:s8:184:LEU:HG	10:s8:188:GLU:HG2	2.01	0.42
81:c2:41:LEU:HD23	81:c2:41:LEU:HA	1.82	0.42
18:c6:24:ALA:HB2	18:c6:92:TYR:OH	2.20	0.42
19:c7:10:LYS:HD3	19:c7:53:TYR:CZ	2.55	0.42
20:c8:119:ILE:HD12	20:c8:119:ILE:HA	1.75	0.42
83:sR:21:THR:HG23	83:sR:37:SER:HA	2.01	0.42
83:sR:43:ILE:HD13	83:sR:60:SER:HA	2.02	0.42
83:sR:121:MET:HE3	83:sR:121:MET:HB2	1.94	0.42
83:sR:176:LYS:HE2	83:sR:197:SER:C	2.44	0.42
36:5:109:A:H4'	36:5:110:G:OP1	2.20	0.42
36:5:171:G:C6	36:5:172:G:C8	3.08	0.42
36:5:536:U:H1'	36:5:559:A:C8	2.54	0.42
36:5:677:A:C8	36:5:786:A:C6	3.07	0.42
36:5:1565:G:N2	36:5:1574:C:O2	2.34	0.42
36:5:2186:U:OP2	39:l2:200:ARG:HD2	2.19	0.42
36:5:2706:G:C6	36:5:2707:C:N4	2.88	0.42
36:5:2775:U:H1'	64:n8:58:MET:SD	2.59	0.42
36:5:2785:A:H2'	36:5:2786:G:O4'	2.20	0.42
36:5:2874:G:N2	92:5:4409:OHX:N6	2.67	0.42
36:5:2884:C:O2	36:5:2939:G:C2	2.73	0.42
36:5:3160:U:OP1	92:5:4452:OHX:N1	2.52	0.42
36:5:3181:C:C5	52:m6:168:TYR:CZ	3.08	0.42
40:l3:57:VAL:HG21	87:n4:15:PRO:HG2	2.01	0.42
40:l3:258:ALA:O	40:l3:259:HIS:CD2	2.73	0.42
40:l3:323:MET:HE1	40:l3:356:LEU:CD1	2.46	0.42
42:l5:51:LEU:HB2	42:l5:144:VAL:HG13	2.01	0.42
48:m1:7:ASN:N	48:m1:8:PRO:HD3	2.34	0.42
51:m5:27:VAL:HB	51:m5:122:ASN:HD21	1.84	0.42
54:m8:62:VAL:HB	54:m8:83:VAL:HG11	2.01	0.42
58:n2:29:ASP:O	58:n2:32:SER:N	2.53	0.42
59:n3:6:ALA:HB1	59:n3:125:LEU:HG	2.02	0.42
61:n5:79:GLY:C	61:n5:81:ILE:HD12	2.44	0.42
63:n7:2:ALA:O	63:n7:4:PHE:HD2	2.02	0.42
64:n8:9:ARG:HE	64:n8:9:ARG:HB3	1.65	0.42
78:q2:105:GLN:HB2	78:q2:106:PHE:CE1	2.55	0.42
88:p0:40:GLU:OE2	88:p0:104:ARG:NE	2.53	0.42
1:2:87:C:O2'	1:2:169:A:N1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:323:A:OP2	10:S8:11:ARG:N	2.45	0.42
1:2:327:U:H2'	1:2:328:A:H8	1.82	0.42
1:2:489:C:H2'	1:2:490:C:C6	2.54	0.42
1:2:952:A:O2'	15:C3:114:ARG:HG3	2.20	0.42
1:2:981:U:O2'	1:2:982:U:H5'	2.19	0.42
1:2:1365:C:H5"	18:C6:28:LEU:HD23	2.02	0.42
1:2:1504:G:H2'	1:2:1505:A:O4'	2.20	0.42
1:2:1796:C:H4'	1:2:1797:A:OP2	2.20	0.42
6:S4:180:LEU:HD23	6:S4:180:LEU:HA	1.87	0.42
7:S5:182:ALA:O	7:S5:186:ASN:ND2	2.53	0.42
8:S6:24:ILE:C	8:S6:26:VAL:N	2.78	0.42
8:S6:161:GLU:HA	8:S6:169:TYR:O	2.18	0.42
9:S7:37:GLU:H	9:S7:37:GLU:HG2	1.39	0.42
9:S7:155:ASP:OD2	9:S7:156:SER:N	2.53	0.42
15:C3:17:PRO:HG3	29:D7:28:PRO:HG3	2.01	0.42
20:C8:49:LYS:NZ	20:C8:80:LYS:O	2.52	0.42
26:D4:27:VAL:HG11	26:D4:35:VAL:HG21	2.01	0.42
27:D5:54:VAL:HG13	27:D5:57:TYR:HD1	1.84	0.42
29:D7:14:SER:HA	29:D7:17:ARG:HE	1.83	0.42
34:SR:288:HIS:CE1	34:SR:306:THR:HG21	2.55	0.42
35:SM:96:ARG:H	35:SM:96:ARG:HG2	1.42	0.42
36:1:87:U:C5	36:1:98:G:C2	3.08	0.42
36:1:103:G:H5'	49:M3:65:TYR:CD1	2.54	0.42
36:1:979:U:C2	36:1:980:A:C4	3.07	0.42
36:1:1018:G:H2'	36:1:1019:G:O4'	2.19	0.42
36:1:1246:G:H2'	36:1:1247:U:O4'	2.20	0.42
36:1:1307:G:H5'	52:M6:60:LYS:HE3	2.01	0.42
36:1:2176:U:O4	92:L2:305:OHX:N4	2.52	0.42
36:1:2651:G:H4'	36:1:2652:U:OP2	2.20	0.42
36:1:2747:A:H4'	42:L5:174:PRO:O	2.20	0.42
36:1:3289:G:C6	92:1:4377:OHX:N4	2.87	0.42
40:L3:233:TRP:CD1	40:L3:265:ALA:HB1	2.55	0.42
41:L4:338:LYS:HD2	41:L4:338:LYS:HA	1.60	0.42
47:M0:10:ARG:HG2	47:M0:11:TYR:CD1	2.54	0.42
50:M4:55:ARG:HG2	56:N0:70:THR:HG21	2.02	0.42
54:M8:169:GLY:O	54:M8:172:PHE:HB2	2.20	0.42
62:N6:100:HIS:HA	62:N6:101:PRO:HD2	1.86	0.42
66:O0:20:SER:OG	66:O0:96:GLY:HA3	2.19	0.42
73:O7:19:CYS:O	73:O7:23:GLY:N	2.43	0.42
79:Q3:56:THR:HA	79:Q3:63:THR:HA	2.01	0.42
1:6:532:U:H5"	26:d4:63:GLN:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:697:C:O2	9:s7:107:ARG:HG2	2.20	0.42
1:6:918:U:H2'	1:6:919:A:C8	2.54	0.42
1:6:1731:A:H5"	1:6:1732:A:OP2	2.20	0.42
92:6:2162:OHX:N6	92:6:2339:OHX:N2	2.67	0.42
5:s3:195:SER:O	5:s3:196:ARG:HB3	2.19	0.42
7:s5:57:SER:CB	30:d8:53:ILE:HB	2.49	0.42
7:s5:197:GLU:OE1	7:s5:209:TYR:N	2.53	0.42
8:s6:39:GLU:HG3	8:s6:46:LYS:HG3	2.02	0.42
13:c1:80:MET:HE3	13:c1:83:THR:HG23	2.02	0.42
16:c4:18:ARG:N	16:c4:29:HIS:O	2.49	0.42
18:c6:99:GLU:OE2	83:sR:60:SER:HB2	2.19	0.42
22:d0:99:ILE:O	22:d0:103:ILE:HB	2.19	0.42
23:d1:2:GLU:HG3	23:d1:6:GLY:HA2	2.02	0.42
25:d3:107:PHE:CD2	25:d3:114:LYS:HB3	2.55	0.42
28:d6:51:ARG:NH2	30:d8:60:GLU:OE1	2.53	0.42
36:5:148:G:OP2	51:m5:4:TYR:OH	2.23	0.42
36:5:169:U:H4'	36:5:170:G:OP1	2.18	0.42
36:5:196:G:C2	36:5:199:A:C8	3.08	0.42
36:5:289:A:C2	51:m5:93:LYS:HG3	2.54	0.42
36:5:1072:G:H2'	36:5:1073:U:C6	2.55	0.42
36:5:2249:G:C8	36:5:2249:G:H3'	2.55	0.42
36:5:2809:C:N3	36:5:2810:C:H1'	2.35	0.42
37:7:79:A:OP2	92:7:238:OHX:N3	2.53	0.42
38:8:83:C:P	38:8:83:C:H3'	2.60	0.42
41:l4:99:MET:HE1	41:l4:103:THR:HG23	2.02	0.42
44:l7:65:ALA:HB1	44:l7:76:TYR:CE1	2.54	0.42
85:l8:95:ASN:OD1	85:l8:98:ARG:NH1	2.52	0.42
49:m3:168:ARG:NH2	49:m3:172:LEU:HD21	2.34	0.42
53:m7:9:THR:OG1	53:m7:151:THR:OG1	2.36	0.42
56:n0:139:TYR:CD2	56:n0:140:VAL:HG23	2.55	0.42
57:n1:39:ILE:HD12	57:n1:102:ARG:NE	2.34	0.42
58:n2:18:ASP:OD2	58:n2:20:SER:OG	2.32	0.42
1:2:49:C:H2'	1:2:50:C:O4'	2.20	0.42
1:2:67:A:N6	1:2:83:G:O2'	2.53	0.42
1:2:195:G:H2'	1:2:196:G:H5'	2.01	0.42
1:2:337:G:H1'	10:S8:10:LYS:NZ	2.33	0.42
1:2:717:C:N4	1:2:720:G:H22	2.15	0.42
1:2:1080:U:H3'	1:2:1081:A:C8	2.55	0.42
1:2:1086:A:C6	1:2:1087:A:C6	3.08	0.42
1:2:1277:G:H2'	1:2:1278:G:O4'	2.20	0.42
1:2:1288:G:C2	1:2:1289:U:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1365:C:N4	1:2:1366:U:O4	2.53	0.42
1:2:1498:G:H5"	21:C9:72:GLY:HA3	2.02	0.42
2:S0:63:ILE:HG23	23:D1:35:ASN:O	2.19	0.42
3:S1:84:ILE:HG22	3:S1:86:LEU:HD22	2.01	0.42
5:S3:94:ARG:HE	35:SM:134:LEU:HD23	1.85	0.42
6:S4:160:VAL:HG13	6:S4:169:ILE:HG23	2.01	0.42
9:S7:77:LEU:O	9:S7:81:LEU:HG	2.20	0.42
17:C5:22:LEU:HD21	17:C5:109:PRO:HB3	2.01	0.42
18:C6:43:ILE:H	18:C6:43:ILE:HG12	1.58	0.42
24:D2:26:LEU:HD21	24:D2:60:LYS:HD3	2.02	0.42
25:D3:48:HIS:CD2	25:D3:105:ALA:HB2	2.55	0.42
28:D6:68:TYR:CD2	28:D6:68:TYR:N	2.87	0.42
32:E0:38:LEU:O	32:E0:42:ARG:HB2	2.20	0.42
36:1:62:A:H2'	36:1:63:A:C8	2.54	0.42
36:1:289:A:H2'	36:1:290:G:C8	2.54	0.42
36:1:517:G:P	44:L7:60:ARG:HH22	2.41	0.42
36:1:520:U:OP1	41:L4:351:PRO:HD3	2.20	0.42
36:1:573:C:H2'	36:1:574:U:C6	2.55	0.42
36:1:817:A:H4'	36:1:818:C:OP2	2.19	0.42
36:1:977:C:OP1	54:M8:141:ARG:NH2	2.49	0.42
36:1:1177:G:H1'	36:1:1178:G:N7	2.34	0.42
36:1:1191:U:C2	52:M6:48:PHE:CE1	3.07	0.42
36:1:1257:C:H42	36:1:1261:G:H22	1.67	0.42
36:1:2535:A:N6	36:1:2544:U:H3	2.05	0.42
36:1:2709:C:H2'	36:1:2710:C:C6	2.55	0.42
36:1:3151:U:H4'	36:1:3294:A:H1'	2.00	0.42
37:3:10:C:OP2	57:N1:26:HIS:ND1	2.52	0.42
40:L3:199:PHE:O	40:L3:201:LYS:N	2.53	0.42
41:L4:29:PRO:HG3	41:L4:279:HIS:CD2	2.54	0.42
42:L5:208:MET:HE2	42:L5:233:ALA:HA	2.01	0.42
48:M1:15:GLU:HB2	48:M1:132:ASN:CG	2.45	0.42
48:M1:61:ARG:O	48:M1:62:ASN:HB2	2.20	0.42
54:M8:157:PRO:HD3	64:N8:47:LYS:HB2	2.02	0.42
57:N1:102:ARG:HG2	57:N1:102:ARG:HH11	1.85	0.42
59:N3:86:ARG:HD2	59:N3:92:PHE:CE2	2.54	0.42
63:N7:81:LEU:HD23	63:N7:81:LEU:HA	1.90	0.42
64:N8:138:ILE:HD12	64:N8:145:VAL:HG22	2.02	0.42
79:Q3:7:LYS:HB3	79:Q3:7:LYS:HE2	1.72	0.42
1:6:56:U:O4	1:6:92:A:H4'	2.19	0.42
1:6:154:G:H1	1:6:160:C:N4	2.18	0.42
1:6:268:C:C2	1:6:288:A:C2	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:652:G:N2	1:6:683:C:C2	2.88	0.42
1:6:1078:C:OP2	92:6:2336:OHX:N6	2.53	0.42
2:s0:53:THR:HA	2:s0:161:PRO:HG2	2.02	0.42
3:s1:138:PHE:HE2	3:s1:216:LYS:HG3	1.84	0.42
4:s2:230:TRP:CE2	24:d2:68:ARG:HD2	2.54	0.42
11:s9:30:LEU:HD23	11:s9:30:LEU:HA	1.85	0.42
13:c1:92:HIS:O	13:c1:100:TYR:HA	2.19	0.42
82:c5:10:ARG:NH2	82:c5:70:ASN:OD1	2.53	0.42
18:c6:49:TYR:HB3	18:c6:53:LEU:HD21	2.01	0.42
21:c9:105:LEU:HD13	21:c9:122:ARG:CD	2.49	0.42
22:d0:99:ILE:H	22:d0:99:ILE:CD1	2.33	0.42
25:d3:37:ALA:O	25:d3:41:SER:HB3	2.19	0.42
36:5:523:A:N6	36:5:569:A:C2	2.88	0.42
36:5:841:A:H5'	55:m9:125:LYS:O	2.20	0.42
36:5:1556:C:H5"	36:5:2169:G:H22	1.85	0.42
36:5:1742:U:H2'	36:5:1743:G:C8	2.54	0.42
36:5:2133:U:O4	36:5:2147:A:H2	2.02	0.42
36:5:2341:A:OP2	40:l3:247:ARG:NH2	2.52	0.42
36:5:2359:C:H2'	36:5:2360:C:C6	2.55	0.42
36:5:2993:G:C6	36:5:3142:A:C4	3.07	0.42
36:5:3246:G:O6	92:5:4504:OHX:N5	2.52	0.42
36:5:3374:U:O4	92:5:4552:OHX:N6	2.52	0.42
37:7:47:C:H2'	37:7:48:U:C6	2.55	0.42
37:7:55:A:H2'	37:7:56:A:O4'	2.19	0.42
40:l3:283:TYR:CE1	40:l3:354:VAL:HG11	2.55	0.42
40:l3:358:TRP:CZ2	40:l3:360:ASP:HA	2.54	0.42
43:l6:62:THR:OG1	43:l6:78:ARG:HD3	2.19	0.42
43:l6:163:PHE:O	69:o3:7:LEU:HD21	2.19	0.42
47:m0:65:LEU:HD23	47:m0:159:PHE:CZ	2.54	0.42
48:m1:23:VAL:HG13	48:m1:29:ARG:HG2	2.01	0.42
48:m1:23:VAL:CG1	48:m1:29:ARG:HG2	2.50	0.42
50:m4:39:ILE:HB	50:m4:43:LYS:HB3	2.01	0.42
87:n4:126:GLU:HA	87:n4:129:LYS:HE3	2.02	0.42
62:n6:109:LEU:HD23	62:n6:109:LEU:HA	1.83	0.42
65:n9:18:ARG:HD2	65:n9:18:ARG:HA	1.68	0.42
72:o6:54:GLU:HA	72:o6:57:LEU:HB2	2.02	0.42
79:q3:49:ARG:CD	79:q3:50:GLY:H	2.33	0.42
1:2:443:C:OP2	26:D4:105:ARG:HB2	2.20	0.42
1:2:566:C:H2'	1:2:567:A:O4'	2.20	0.42
1:2:996:U:H3	1:2:1008:G:H1	1.67	0.42
1:2:1636:C:C2	1:2:1638:G:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:11:ARG:O	6:S4:12:LEU:HB2	2.20	0.42
8:S6:137:ARG:HH21	8:S6:177:ARG:NE	2.18	0.42
9:S7:123:ASP:OD1	9:S7:138:LYS:NZ	2.53	0.42
11:S9:115:LYS:HD2	11:S9:115:LYS:HA	1.84	0.42
13:C1:95:PRO:O	13:C1:97:TYR:N	2.53	0.42
15:C3:135:LEU:HA	15:C3:135:LEU:HD23	1.79	0.42
20:C8:72:ILE:HG12	20:C8:79:TYR:CD1	2.55	0.42
24:D2:14:ILE:HD11	24:D2:38:LEU:HD21	2.02	0.42
28:D6:54:SER:HA	28:D6:57:SER:HB2	2.02	0.42
34:SR:170:ILE:HA	34:SR:179:LYS:O	2.20	0.42
36:1:1520:G:H2'	36:1:1521:G:O4'	2.19	0.42
36:1:1857:C:C4	36:1:1858:A:C6	3.08	0.42
36:1:2756:C:O4'	57:N1:49:GLN:HG2	2.20	0.42
36:1:2973:G:O6	92:1:4333:OHX:N2	2.53	0.42
37:3:112:G:H2'	37:3:113:C:C6	2.55	0.42
38:4:85:G:C8	38:4:85:G:C3'	3.03	0.42
39:L2:229:ALA:HB3	39:L2:234:LYS:HG3	2.00	0.42
40:L3:223:GLY:HA2	40:L3:271:GLY:HA3	2.01	0.42
44:L7:169:ILE:HD13	44:L7:181:ILE:HA	2.01	0.42
47:M0:36:LEU:CD2	47:M0:69:ARG:HD3	2.50	0.42
48:M1:85:LYS:HB2	48:M1:85:LYS:HE3	1.88	0.42
49:M3:165:SER:HB3	49:M3:168:ARG:HB3	2.02	0.42
50:M4:20:VAL:HG22	50:M4:68:LEU:HB2	2.01	0.42
51:M5:197:LEU:HD21	51:M5:199:LEU:HD21	2.02	0.42
56:N0:2:ALA:HB3	56:N0:32:SER:CB	2.50	0.42
58:N2:27:VAL:HG21	58:N2:107:PHE:HE1	1.85	0.42
66:O0:28:LYS:HB3	66:O0:28:LYS:HE2	1.89	0.42
70:O4:46:ASP:OD2	70:O4:84:CYS:HB3	2.20	0.42
78:Q2:10:THR:O	78:Q2:20:HIS:HA	2.20	0.42
79:Q3:50:GLY:O	79:Q3:51:ALA:HB3	2.20	0.42
1:6:28:A:H2'	1:6:29:U:C6	2.55	0.42
1:6:95:G:C6	1:6:96:G:C4	3.08	0.42
1:6:225:A:N6	1:6:226:A:H62	2.18	0.42
1:6:811:A:C2	1:6:858:G:H1'	2.55	0.42
1:6:1031:U:H4'	1:6:1032:G:OP2	2.20	0.42
3:s1:35:PRO:CB	3:s1:231:LEU:HD11	2.49	0.42
4:s2:180:ALA:HB2	4:s2:198:THR:HG21	2.02	0.42
6:s4:112:HIS:NE2	6:s4:237:SER:O	2.53	0.42
6:s4:125:LYS:NZ	6:s4:157:ASN:HA	2.35	0.42
80:c0:30:ALA:O	80:c0:31:LYS:HB2	2.20	0.42
13:c1:93:TYR:O	13:c1:95:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:c2:86:VAL:HG13	81:c2:86:VAL:O	2.20	0.42
24:d2:37:PHE:CZ	24:d2:103:ILE:HD12	2.55	0.42
84:sM:43:ASP:HA	84:sM:44:PRO:HD3	1.93	0.42
36:5:104:G:O2'	36:5:698:U:O2	2.36	0.42
36:5:172:G:C5	92:5:4557:OHX:N4	2.88	0.42
36:5:651:G:C6	36:5:652:G:C6	3.08	0.42
36:5:848:A:H2'	36:5:849:C:O4'	2.19	0.42
36:5:1049:C:H2'	36:5:1050:U:C6	2.55	0.42
36:5:1205:A:H4'	36:5:2835:U:O2'	2.20	0.42
36:5:1300:G:O3'	92:5:4566:OHX:N6	2.53	0.42
36:5:1670:C:OP1	92:5:4542:OHX:N3	2.52	0.42
36:5:2433:U:OP2	36:5:2434:U:O2'	2.34	0.42
36:5:2799:A:H1'	64:n8:42:ARG:NH2	2.35	0.42
38:8:132:G:C6	38:8:133:G:N7	2.88	0.42
39:l2:220:GLY:O	39:l2:221:LYS:HG3	2.20	0.42
40:l3:265:ALA:C	40:l3:266:ARG:HG2	2.43	0.42
42:l5:52:VAL:CG2	42:l5:65:ILE:HG13	2.43	0.42
47:m0:129:VAL:HG12	47:m0:130:ASP:H	1.84	0.42
47:m0:212:GLU:C	47:m0:214:PRO:HD3	2.44	0.42
49:m3:18:TRP:CE2	49:m3:19:GLN:HG2	2.55	0.42
57:n1:34:TYR:CE1	57:n1:98:HIS:CE1	3.08	0.42
59:n3:10:LYS:HZ3	59:n3:56:ASP:CG	2.28	0.42
62:n6:39:LEU:HD12	62:n6:109:LEU:HG	2.01	0.42
1:2:212:U:C2	1:2:254:A:C2	3.08	0.41
1:2:623:A:C2	1:2:1105:C:H1'	2.55	0.41
1:2:886:U:O2'	16:C4:121:VAL:O	2.31	0.41
1:2:1503:A:H2'	1:2:1504:G:O4'	2.20	0.41
1:2:1796:C:C5	28:D6:6:ALA:N	2.86	0.41
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.20	0.41
2:S0:200:ASP:N	2:S0:200:ASP:OD1	2.52	0.41
4:S2:148:LEU:O	23:D1:4:ASP:HB2	2.20	0.41
5:S3:70:THR:HG22	5:S3:86:LEU:HB2	2.00	0.41
9:S7:16:LEU:O	9:S7:20:VAL:HG23	2.20	0.41
12:C0:58:GLN:O	12:C0:64:TYR:HA	2.20	0.41
17:C5:125:PRO:HG3	20:C8:129:TRP:CZ2	2.55	0.41
18:C6:103:ASN:O	18:C6:107:LYS:HB2	2.20	0.41
19:C7:81:LYS:HB2	19:C7:81:LYS:HE3	1.64	0.41
28:D6:36:ILE:HD12	28:D6:78:ALA:HB1	2.02	0.41
29:D7:64:CYS:HB2	29:D7:71:ALA:HB1	2.01	0.41
36:1:174:C:H2'	36:1:175:C:C6	2.54	0.41
36:1:981:U:HO2'	36:1:982:C:P	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1488:G:C2	36:1:1489:A:C8	3.08	0.41
36:1:2284:C:H5"	36:1:2285:C:OP2	2.19	0.41
36:1:2623:G:C4	36:1:2624:G:C8	3.08	0.41
36:1:2859:U:H4'	36:1:2860:U:O5'	2.20	0.41
36:1:3037:U:H2'	36:1:3038:U:H6	1.85	0.41
36:1:3095:U:H2'	36:1:3096:C:C6	2.55	0.41
36:1:3190:C:H2'	36:1:3191:G:H8	1.85	0.41
36:1:3216:G:O6	36:1:3259:U:H2'	2.20	0.41
92:1:4124:OHX:N4	92:1:4487:OHX:N4	2.68	0.41
37:3:118:A:H2'	37:3:119:U:O4'	2.19	0.41
39:L2:96:LEU:HD22	79:Q3:83:ILE:HG23	2.02	0.41
40:L3:49:TYR:OH	40:L3:166:ILE:HD12	2.20	0.41
40:L3:257:PRO:HG2	40:L3:261:MET:CE	2.49	0.41
41:L4:13:GLY:O	41:L4:14:GLU:HB3	2.17	0.41
42:L5:78:ALA:HB3	42:L5:105:ILE:HG12	2.02	0.41
42:L5:106:ALA:O	42:L5:110:LEU:HB2	2.20	0.41
42:L5:151:GLN:NE2	42:L5:159:VAL:HB	2.35	0.41
74:O8:64:LYS:N	74:O8:64:LYS:HD2	2.34	0.41
77:Q1:1:MET:HE3	77:Q1:1:MET:HB2	1.89	0.41
77:Q1:13:LEU:HD11	77:Q1:17:ARG:NH1	2.34	0.41
1:6:63:G:H4'	1:6:170:U:C5	2.55	0.41
1:6:331:A:H4'	10:s8:31:ARG:O	2.20	0.41
1:6:400:A:H8	10:s8:24:LYS:O	2.03	0.41
1:6:404:G:H2'	1:6:405:C:C6	2.55	0.41
1:6:526:A:N6	1:6:527:A:C6	2.87	0.41
1:6:546:U:H2'	1:6:547:U:C6	2.55	0.41
1:6:825:U:O2'	1:6:826:U:OP2	2.33	0.41
1:6:1115:U:H5"	77:q1:14:LYS:HD2	2.02	0.41
1:6:1293:U:H2'	1:6:1294:G:O4'	2.20	0.41
1:6:1523:G:H8	21:c9:79:LEU:HD13	1.85	0.41
1:6:1619:C:O2	30:d8:22:ARG:NH1	2.52	0.41
1:6:1649:G:N7	92:6:2206:OHX:N2	2.67	0.41
1:6:1671:A:C4	1:6:1731:A:C2	3.08	0.41
5:s3:223:LYS:HD3	83:sR:193:ILE:HD13	2.02	0.41
6:s4:87:MET:HE3	6:s4:226:PHE:HE1	1.83	0.41
8:s6:78:THR:HG22	8:s6:79:LYS:H	1.84	0.41
9:s7:43:PHE:HB2	9:s7:61:PHE:O	2.20	0.41
15:c3:65:VAL:HG12	15:c3:66:ILE:HG22	2.01	0.41
24:d2:28:ARG:HA	24:d2:29:PRO:HA	1.86	0.41
31:d9:19:ARG:HD2	31:d9:32:ARG:HD2	2.02	0.41
83:sR:256:THR:N	83:sR:259:GLY:O	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:151:A:H2'	36:5:152:U:O4'	2.20	0.41
36:5:828:A:H2'	36:5:829:U:C6	2.55	0.41
36:5:1329:U:OP2	69:o3:82:ARG:NH2	2.53	0.41
36:5:1499:C:H2'	36:5:1500:G:H8	1.84	0.41
36:5:1566:A:C2'	36:5:1567:U:H5'	2.49	0.41
36:5:2206:G:O2'	36:5:2207:A:H5'	2.19	0.41
36:5:2710:C:H2'	36:5:2711:C:C6	2.55	0.41
36:5:3042:U:H5"	59:n3:48:ARG:HH21	1.85	0.41
36:5:3178:A:C5	52:m6:6:VAL:HB	2.55	0.41
37:7:40:C:H5"	37:7:41:G:OP2	2.20	0.41
38:8:82:U:P	92:8:237:OHX:N2	2.93	0.41
42:l5:92:LEU:HA	42:l5:92:LEU:HD23	1.80	0.41
46:l9:38:LEU:HD13	46:l9:71:VAL:HG22	2.02	0.41
46:l9:171:ASP:OD1	46:l9:171:ASP:C	2.63	0.41
48:m1:33:ALA:HB2	48:m1:123:PHE:CE1	2.55	0.41
52:m6:117:ARG:H	52:m6:117:ARG:HG2	1.69	0.41
53:m7:155:GLU:H	53:m7:155:GLU:HG2	1.49	0.41
55:m9:41:ILE:O	55:m9:45:VAL:HG23	2.20	0.41
57:n1:85:LEU:HA	57:n1:85:LEU:HD23	1.65	0.41
63:n7:27:LYS:HB3	63:n7:42:LEU:HD13	2.02	0.41
68:o2:11:LYS:O	68:o2:12:LYS:HB3	2.20	0.41
69:o3:13:HIS:NE2	69:o3:28:SER:OG	2.52	0.41
70:o4:65:VAL:HG13	70:o4:69:HIS:HB2	2.01	0.41
71:o5:86:ARG:O	71:o5:90:ARG:HG2	2.20	0.41
78:q2:12:CYS:SG	78:q2:17:CYS:CB	3.07	0.41
1:2:291:G:H2'	1:2:292:U:C6	2.54	0.41
1:2:388:G:OP1	1:2:402:C:H5	2.04	0.41
3:S1:34:ALA:HB2	3:S1:43:VAL:CG2	2.51	0.41
3:S1:185:THR:O	3:S1:189:ILE:HG13	2.20	0.41
6:S4:11:ARG:HB2	6:S4:27:TYR:C	2.44	0.41
7:S5:113:ILE:HG21	7:S5:190:ILE:HG22	2.02	0.41
10:S8:104:ILE:HG12	10:S8:165:LEU:O	2.20	0.41
10:S8:106:ALA:HB2	10:S8:165:LEU:HG	2.01	0.41
12:C0:59:PHE:CZ	12:C0:62:GLN:HA	2.55	0.41
19:C7:20:TYR:CZ	19:C7:38:ILE:HD11	2.55	0.41
19:C7:85:VAL:HG23	19:C7:87:GLU:H	1.85	0.41
36:1:279:U:H2'	36:1:280:U:C6	2.54	0.41
36:1:437:G:H2'	36:1:438:A:O4'	2.20	0.41
36:1:1074:U:O2'	36:1:1075:A:H2'	2.20	0.41
36:1:1445:U:H5"	36:1:1446:A:OP2	2.20	0.41
36:1:1816:A:O2'	36:1:1817:G:OP1	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1926:C:H3'	79:Q3:7:LYS:HG2	2.02	0.41
36:1:2163:C:O2'	39:L2:11:GLY:HA3	2.20	0.41
36:1:2357:A:H2'	36:1:2358:A:H8	1.86	0.41
36:1:2747:A:H2'	36:1:2748:A:C8	2.55	0.41
36:1:3112:G:O2'	46:L9:70:THR:HB	2.20	0.41
37:3:103:A:H2'	37:3:104:A:O4'	2.21	0.41
42:L5:224:LYS:HB2	42:L5:224:LYS:HE3	1.85	0.41
44:L7:102:VAL:HG13	44:L7:126:LEU:HD22	2.03	0.41
52:M6:27:LEU:HB3	52:M6:98:ALA:HB1	2.00	0.41
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.50	0.41
55:M9:118:HIS:O	55:M9:122:VAL:HG23	2.21	0.41
56:N0:77:VAL:HG11	56:N0:106:LEU:CD1	2.49	0.41
56:N0:139:TYR:CD2	56:N0:140:VAL:HG23	2.55	0.41
62:N6:34:PRO:HA	62:N6:47:ALA:CB	2.49	0.41
63:N7:48:ARG:HB3	63:N7:69:LYS:HB3	2.01	0.41
67:O1:20:LEU:CD2	67:O1:31:ARG:HB3	2.50	0.41
70:O4:20:ILE:HD12	70:O4:32:ALA:HB1	2.03	0.41
70:O4:85:VAL:HA	70:O4:88:ARG:HG2	2.01	0.41
71:O5:101:THR:CG2	71:O5:104:GLN:H	2.31	0.41
1:6:16:G:H2'	1:6:17:C:C6	2.55	0.41
1:6:869:A:H5'	15:c3:90:TYR:CD1	2.55	0.41
1:6:879:G:O2'	15:c3:105:ASN:HB3	2.19	0.41
1:6:955:A:H4'	1:6:1073:G:O2'	2.19	0.41
1:6:1119:G:H2'	1:6:1120:U:C6	2.55	0.41
4:s2:218:ILE:O	4:s2:221:THR:OG1	2.38	0.41
5:s3:72:LEU:HD22	80:c0:65:TYR:HD1	1.85	0.41
6:s4:105:VAL:HG22	6:s4:105:VAL:O	2.20	0.41
11:s9:58:ASP:O	11:s9:61:THR:OG1	2.36	0.41
11:s9:60:LEU:HD23	11:s9:60:LEU:HA	1.90	0.41
15:c3:18:TYR:HA	24:d2:56:HIS:HD2	1.84	0.41
82:c5:129:GLY:HA3	84:sM:74:LYS:CG	2.50	0.41
26:d4:86:GLU:OE1	26:d4:90:ARG:HD2	2.18	0.41
84:sM:51:ARG:HA	84:sM:51:ARG:NH1	2.33	0.41
36:5:413:U:H2'	36:5:414:U:C6	2.55	0.41
36:5:979:U:C2	36:5:980:A:N3	2.88	0.41
36:5:1349:G:H2'	36:5:1350:A:C8	2.55	0.41
36:5:2962:U:O5'	36:5:2962:U:H6	2.03	0.41
36:5:3308:C:O2	53:m7:69:ARG:HD3	2.20	0.41
37:7:47:C:H2'	37:7:48:U:H6	1.84	0.41
38:8:68:G:H1	38:8:91:C:H42	1.68	0.41
38:8:76:C:H2'	38:8:77:A:O4'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:198:HIS:O	40:l3:199:PHE:C	2.62	0.41
41:l4:138:ARG:NE	41:l4:240:PRO:HD2	2.34	0.41
85:l8:41:GLN:HG3	85:l8:42:PRO:HD2	2.02	0.41
49:m3:164:GLU:OE2	49:m3:164:GLU:HA	2.19	0.41
50:m4:120:VAL:HG11	52:m6:199:TYR:CD2	2.55	0.41
61:n5:67:ILE:HB	61:n5:83:VAL:HG12	2.02	0.41
69:o3:57:LYS:HE3	69:o3:57:LYS:HB3	1.81	0.41
90:a:74:C:H2'	90:a:75:C:H5'	2.02	0.41
1:2:487:G:H3'	1:2:488:G:C5'	2.50	0.41
1:2:1078:C:H2'	1:2:1079:U:C6	2.55	0.41
1:2:1586:A:H1'	1:2:1611:A:N6	2.35	0.41
1:2:1760:G:H2'	1:2:1761:U:H5'	2.02	0.41
5:S3:8:LYS:HD3	22:D0:63:LEU:HD21	2.02	0.41
5:S3:162:GLN:OE1	5:S3:165:ASN:ND2	2.42	0.41
6:S4:54:TYR:CG	26:D4:17:LEU:HD11	2.55	0.41
8:S6:116:LYS:HD2	8:S6:125:THR:HG21	2.02	0.41
11:S9:93:LEU:HA	11:S9:96:VAL:CG1	2.45	0.41
13:C1:57:LYS:O	13:C1:138:ASN:ND2	2.49	0.41
17:C5:29:SER:OG	17:C5:31:GLU:HG3	2.19	0.41
17:C5:69:GLU:OE1	92:C5:202:OHX:N6	2.53	0.41
18:C6:54:LEU:HD12	18:C6:108:ALA:O	2.20	0.41
20:C8:82:PRO:O	20:C8:83:ALA:HB3	2.20	0.41
29:D7:34:ASP:O	29:D7:79:PHE:HA	2.19	0.41
36:1:199:A:C4	36:1:201:A:C8	3.08	0.41
36:1:223:U:O4	92:1:4493:OHX:N5	2.53	0.41
36:1:634:C:OP1	69:O3:21:ARG:HD3	2.21	0.41
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.53	0.41
36:1:1364:C:H5"	54:M8:3:ILE:HD13	2.01	0.41
36:1:1611:G:H2'	36:1:1612:A:C8	2.54	0.41
36:1:1845:G:O2'	73:O7:5:THR:HG22	2.20	0.41
36:1:1951:C:N4	36:1:2095:G:H1	2.15	0.41
36:1:3267:A:H2'	43:L6:69:PHE:CZ	2.55	0.41
37:3:36:C:O2	37:3:45:A:H1'	2.19	0.41
38:4:78:G:H2'	38:4:79:A:C8	2.55	0.41
43:L6:28:GLN:HE21	43:L6:57:HIS:CE1	2.39	0.41
44:L7:179:LEU:H	44:L7:179:LEU:HD22	1.84	0.41
46:L9:88:TYR:CD2	46:L9:184:LYS:HG2	2.55	0.41
46:L9:180:TYR:HB2	76:Q0:85:LEU:HD13	2.01	0.41
47:M0:48:LEU:HD22	47:M0:49:CYS:N	2.35	0.41
48:M1:73:GLY:O	48:M1:74:PRO:C	2.62	0.41
51:M5:106:VAL:O	51:M5:109:ARG:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:116:LYS:HG3	52:M6:117:ARG:N	2.34	0.41
55:M9:123:LEU:HD13	55:M9:138:LEU:HD21	2.02	0.41
56:N0:47:LYS:O	56:N0:48:LEU:HD23	2.20	0.41
58:N2:30:PRO:HA	58:N2:33:TYR:HB3	2.02	0.41
73:O7:2:GLY:O	73:O7:7:SER:HB3	2.21	0.41
73:O7:53:ALA:HA	73:O7:56:ARG:HB2	2.01	0.41
74:O8:62:ALA:O	74:O8:66:ILE:HG13	2.20	0.41
78:Q2:73:GLU:CD	78:Q2:80:ARG:HH21	2.25	0.41
78:Q2:99:GLN:NE2	78:Q2:102:GLN:HG3	2.35	0.41
1:6:33:U:H1'	1:6:468:A:N6	2.35	0.41
1:6:366:A:OP1	1:6:758:U:O2'	2.32	0.41
1:6:613:G:H4'	1:6:614:C:OP1	2.20	0.41
1:6:649:U:H2'	1:6:650:U:H5	1.85	0.41
1:6:1057:U:O2'	1:6:1059:U:OP1	2.39	0.41
1:6:1347:U:C2	1:6:1517:U:C5	3.09	0.41
1:6:1419:G:H2'	1:6:1420:C:O4'	2.20	0.41
1:6:1427:A:O2'	1:6:1428:G:OP1	2.31	0.41
1:6:1438:G:C2	1:6:1439:C:C2	3.09	0.41
1:6:1619:C:H2'	1:6:1620:C:C6	2.55	0.41
3:s1:47:LEU:O	16:c4:37:GLU:HG3	2.21	0.41
4:s2:153:SER:OG	4:s2:154:LEU:N	2.54	0.41
7:s5:89:ILE:H	7:s5:89:ILE:HG13	1.58	0.41
8:s6:16:PHE:CD1	8:s6:45:PHE:HZ	2.38	0.41
8:s6:152:ASP:OD2	8:s6:154:ARG:NH1	2.54	0.41
10:s8:140:GLU:HA	10:s8:143:TRP:HB2	2.02	0.41
20:c8:82:PRO:HG3	21:c9:36:ILE:HD12	2.01	0.41
26:d4:2:SER:HA	26:d4:32:ARG:HD3	2.02	0.41
83:sR:84:SER:OG	83:sR:85:TRP:N	2.53	0.41
36:5:281:G:C6	36:5:282:G:C6	3.08	0.41
36:5:438:A:C8	36:5:439:C:H5	2.37	0.41
36:5:904:A:H5'	36:5:1536:G:O2'	2.20	0.41
36:5:982:C:N4	36:5:1101:G:H1	2.18	0.41
36:5:1080:A:OP1	42:l5:140:ARG:HB2	2.19	0.41
36:5:1613:A:H2'	36:5:1614:C:C6	2.55	0.41
36:5:1728:G:H4'	36:5:1729:A:H5"	2.02	0.41
36:5:1765:U:H2'	36:5:1766:G:O4'	2.19	0.41
36:5:2112:U:O2	92:5:4232:OHX:N1	2.53	0.41
36:5:2520:A:H2'	36:5:2521:U:C6	2.55	0.41
36:5:2730:G:H4'	54:m8:184:PHE:CD1	2.56	0.41
36:5:3060:C:H4'	36:5:3372:A:N3	2.36	0.41
36:5:3255:U:H2'	36:5:3256:G:C8	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3294:A:OP1	40:l3:128:LYS:NZ	2.54	0.41
37:7:49:G:H4'	37:7:50:U:O5'	2.20	0.41
37:7:58:C:OP1	92:7:230:OHX:N3	2.53	0.41
38:8:66:A:H2'	38:8:67:U:C6	2.54	0.41
38:8:141:C:H2'	38:8:142:C:C6	2.55	0.41
40:l3:147:GLU:OE2	40:l3:150:ARG:NH1	2.53	0.41
40:l3:370:PHE:CE2	40:l3:376:LYS:HG3	2.55	0.41
41:l4:179:LEU:O	41:l4:180:LYS:C	2.61	0.41
42:l5:17:GLN:HE22	57:n1:22:HIS:N	2.18	0.41
44:l7:198:ALA:O	44:l7:201:PHE:HB3	2.20	0.41
86:m2:52:UNK:C	86:m2:54:UNK:H	2.33	0.41
49:m3:47:ALA:CB	49:m3:48:PRO:HD2	2.46	0.41
61:n5:73:MET:O	61:n5:76:VAL:N	2.53	0.41
76:q0:89:TYR:CD2	76:q0:89:TYR:N	2.88	0.41
1:2:350:U:O2	1:2:352:A:C6	2.73	0.41
1:2:679:U:C5	92:2:2251:OHX:N1	2.89	0.41
1:2:1065:A:C5	1:2:1066:C:C5	3.08	0.41
1:2:1149:G:C6	1:2:1151:A:N6	2.88	0.41
1:2:1178:G:C2	1:2:1462:G:C5	3.08	0.41
1:2:1382:A:H2	22:D0:57:ARG:HH11	1.69	0.41
1:2:1545:A:OP1	20:C8:133:VAL:HG23	2.20	0.41
1:2:1758:U:O4	92:2:2069:OHX:N6	2.54	0.41
3:S1:130:SER:OG	3:S1:131:ASP:N	2.48	0.41
3:S1:207:LEU:HB3	3:S1:210:ILE:HD11	2.02	0.41
6:S4:247:SER:O	6:S4:251:GLU:HG3	2.21	0.41
8:S6:65:GLN:HG3	8:S6:66:GLY:N	2.35	0.41
9:S7:98:ILE:HG13	9:S7:121:VAL:HG21	2.01	0.41
9:S7:182:VAL:HG12	9:S7:183:PHE:N	2.36	0.41
12:C0:12:HIS:CD2	12:C0:79:TYR:CD2	3.09	0.41
13:C1:55:ASP:OD2	13:C1:110:HIS:HE1	2.02	0.41
14:C2:31:VAL:HG23	14:C2:132:GLU:HB2	2.03	0.41
14:C2:80:ASN:O	14:C2:81:ASP:C	2.63	0.41
16:C4:122:PRO:HG2	16:C4:124:ASP:HA	2.03	0.41
17:C5:130:ARG:NH1	35:SM:71:ASN:OD1	2.52	0.41
20:C8:33:THR:HA	20:C8:38:VAL:O	2.21	0.41
20:C8:76:PRO:O	20:C8:81:ILE:HB	2.21	0.41
22:D0:28:SER:OG	22:D0:29:THR:N	2.52	0.41
26:D4:3:ASP:C	26:D4:5:VAL:H	2.27	0.41
35:SM:101:ASP:HB3	35:SM:102:THR:H	1.67	0.41
36:1:816:A:C8	36:1:906:A:C6	3.08	0.41
36:1:840:C:H4'	55:M9:128:LYS:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:947:G:H2'	36:1:948:C:C6	2.55	0.41
36:1:1615:C:H2'	36:1:1616:U:C6	2.56	0.41
36:1:1833:G:OP1	75:O9:10:LYS:HD3	2.19	0.41
36:1:2525:G:H2'	39:L2:34:TYR:HE1	1.83	0.41
36:1:2535:A:H3'	36:1:2536:A:C8	2.56	0.41
36:1:3316:A:H3'	36:1:3316:A:C8	2.56	0.41
40:L3:347:SER:C	40:L3:349:LYS:N	2.78	0.41
41:L4:185:LYS:HA	41:L4:200:THR:O	2.20	0.41
45:L8:163:VAL:HG22	45:L8:166:LEU:HD12	2.01	0.41
49:M3:46:ILE:CG2	49:M3:49:ARG:HB2	2.50	0.41
53:M7:74:LYS:C	53:M7:76:PHE:N	2.78	0.41
54:M8:168:THR:OG1	54:M8:169:GLY:N	2.52	0.41
64:N8:94:ALA:CB	64:N8:121:VAL:HG13	2.51	0.41
68:O2:26:HIS:O	68:O2:28:VAL:N	2.54	0.41
1:6:32:U:O2'	1:6:594:A:N1	2.51	0.41
1:6:367:A:OP1	92:6:2281:OHX:N3	2.54	0.41
1:6:836:U:C2	1:6:837:G:C8	3.08	0.41
1:6:1175:U:H2'	1:6:1176:G:C8	2.55	0.41
1:6:1685:G:H1	1:6:1716:C:H42	1.67	0.41
7:s5:144:GLU:CD	30:d8:57:MET:HG3	2.45	0.41
11:s9:59:LEU:O	11:s9:62:ARG:HB2	2.20	0.41
11:s9:64:GLU:O	11:s9:65:LYS:HB2	2.21	0.41
11:s9:175:ARG:O	11:s9:179:ARG:HG2	2.21	0.41
15:c3:151:ASN:C	92:c3:201:OHX:N3	2.78	0.41
16:c4:13:VAL:HG21	16:c4:75:GLY:O	2.20	0.41
83:sR:239:GLU:O	83:sR:257:ALA:N	2.53	0.41
36:5:49:A:OP1	49:m3:16:LYS:NZ	2.32	0.41
36:5:221:A:H62	62:n6:103:LYS:HZ1	1.68	0.41
36:5:388:G:N2	53:m7:101:ASN:OD1	2.52	0.41
36:5:815:G:C6	36:5:906:A:C4	3.08	0.41
36:5:1085:A:H5"	36:5:1085:A:H8	1.85	0.41
36:5:1259:A:N6	36:5:1260:A:N1	2.68	0.41
36:5:1514:G:N3	36:5:1514:G:H2'	2.35	0.41
36:5:1715:A:C8	36:5:1717:U:H5"	2.55	0.41
36:5:1833:G:OP1	75:o9:10:LYS:HD3	2.20	0.41
36:5:2179:C:O3'	39:l2:174:ARG:NH2	2.52	0.41
39:l2:5:ILE:HG12	39:l2:8:GLN:HG3	2.02	0.41
40:l3:139:GLN:OE1	40:l3:142:ALA:HB3	2.20	0.41
40:l3:252:ILE:HG12	40:l3:266:ARG:NH2	2.35	0.41
40:l3:361:THR:HG23	40:l3:371:GLN:O	2.20	0.41
40:l3:380:MET:HB3	40:l3:380:MET:HE2	1.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:95:TRP:HZ3	42:l5:156:GLY:C	2.29	0.41
42:l5:136:GLU:CD	42:l5:136:GLU:N	2.78	0.41
43:l6:63:LEU:HB2	43:l6:79:VAL:HG12	2.02	0.41
46:l9:1:MET:HE2	46:l9:3:TYR:CE1	2.56	0.41
49:m3:133:PRO:O	49:m3:135:ALA:N	2.54	0.41
52:m6:14:HIS:CE1	52:m6:119:VAL:HG22	2.55	0.41
53:m7:147:GLU:O	53:m7:147:GLU:HG3	2.20	0.41
54:m8:166:LEU:HD23	54:m8:166:LEU:HA	1.76	0.41
62:n6:69:LYS:O	62:n6:83:ASP:N	2.54	0.41
1:2:226:A:C2'	1:2:227:U:H5'	2.51	0.41
1:2:823:G:HO2'	1:2:824:G:C5'	2.33	0.41
1:2:901:G:C6	1:2:902:G:C6	3.08	0.41
1:2:1040:G:C2'	1:2:1041:G:H5'	2.50	0.41
1:2:1349:G:N2	1:2:1350:U:C2	2.88	0.41
1:2:1552:U:H2'	1:2:1553:G:O4'	2.20	0.41
1:2:1796:C:C2	28:D6:5:ARG:HG2	2.56	0.41
3:S1:51:SER:HB3	3:S1:56:SER:HB2	2.01	0.41
5:S3:110:LEU:HA	5:S3:110:LEU:HD23	1.74	0.41
5:S3:114:ALA:HB3	5:S3:117:ARG:HB2	2.02	0.41
6:S4:178:GLY:O	6:S4:179:LYS:HG2	2.21	0.41
7:S5:156:ARG:H	7:S5:156:ARG:HG3	1.68	0.41
10:S8:114:GLU:CD	10:S8:120:THR:HA	2.46	0.41
10:S8:162:ALA:HA	36:1:3353:G:C5'	2.46	0.41
13:C1:92:HIS:O	13:C1:100:TYR:HA	2.20	0.41
18:C6:41:PRO:HG2	18:C6:78:VAL:HG21	2.02	0.41
20:C8:142:GLY:O	20:C8:145:ARG:HD2	2.20	0.41
22:D0:48:HIS:O	22:D0:48:HIS:CG	2.74	0.41
29:D7:3:LEU:HD22	29:D7:3:LEU:HA	1.77	0.41
29:D7:63:LEU:O	29:D7:74:SER:N	2.53	0.41
33:E1:147:VAL:HG12	33:E1:148:TYR:CG	2.55	0.41
36:1:155:G:H4'	36:1:156:G:H2'	2.02	0.41
36:1:315:C:OP2	72:O6:28:TYR:OH	2.33	0.41
36:1:370:U:H4'	36:1:404:G:H5'	2.02	0.41
36:1:439:C:H4'	36:1:495:G:H1'	2.02	0.41
36:1:1176:C:OP1	52:M6:25:LYS:HE3	2.20	0.41
36:1:1389:G:H5"	68:O2:101:SER:HB3	2.03	0.41
36:1:2112:U:H4'	36:1:2113:A:O4'	2.20	0.41
36:1:2343:C:H2'	36:1:2344:U:H6	1.84	0.41
36:1:2373:A:H3'	36:1:2373:A:OP2	2.21	0.41
36:1:2541:U:O4'	36:1:2542:U:H4'	2.21	0.41
36:1:3279:A:N6	36:1:3280:U:O4	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3317:U:O2'	92:1:4257:OHX:N3	2.53	0.41
36:1:3380:U:H2'	36:1:3381:U:C6	2.56	0.41
37:3:81:U:H2'	37:3:82:G:H8	1.86	0.41
40:L3:57:VAL:HG23	40:L3:358:TRP:HE3	1.86	0.41
41:L4:258:LEU:HA	41:L4:258:LEU:HD12	1.76	0.41
45:L8:166:LEU:HA	45:L8:166:LEU:HD23	1.89	0.41
46:L9:12:VAL:HG13	46:L9:16:VAL:HG12	2.02	0.41
51:M5:113:LEU:HD13	51:M5:113:LEU:HA	1.84	0.41
54:M8:24:VAL:O	54:M8:28:LEU:HG	2.20	0.41
54:M8:153:PHE:O	54:M8:161:LYS:HE2	2.21	0.41
56:N0:46:GLN:HG2	56:N0:51:VAL:O	2.20	0.41
61:N5:139:ILE:O	61:N5:139:ILE:HG13	2.19	0.41
63:N7:53:VAL:HA	63:N7:57:HIS:CD2	2.55	0.41
63:N7:64:LYS:HD3	63:N7:64:LYS:HA	1.69	0.41
65:N9:23:LYS:CD	65:N9:24:PRO:HD3	2.50	0.41
1:6:40:A:O2'	92:6:2204:OHX:N4	2.53	0.41
1:6:149:C:H2'	1:6:150:U:C6	2.53	0.41
1:6:190:C:H6	1:6:190:C:OP2	2.03	0.41
1:6:209:U:H2'	1:6:210:A:C8	2.55	0.41
1:6:329:G:H5"	10:s8:98:LYS:HB3	2.02	0.41
1:6:690:G:C6	1:6:691:C:C4	3.09	0.41
1:6:767:U:C4	26:d4:64:PHE:CE1	3.08	0.41
1:6:839:U:H2'	1:6:840:U:H6	1.85	0.41
1:6:878:G:N7	92:6:2210:OHX:N1	2.69	0.41
1:6:1531:G:H2'	1:6:1532:U:C6	2.56	0.41
2:s0:202:TYR:O	2:s0:203:PHE:CG	2.73	0.41
4:s2:152:HIS:HD1	4:s2:174:ARG:HG2	1.84	0.41
7:s5:87:CYS:SG	7:s5:92:ARG:HG3	2.60	0.41
7:s5:120:ILE:O	7:s5:124:LEU:HD13	2.19	0.41
26:d4:20:ARG:HA	26:d4:76:TYR:HA	2.03	0.41
84:sM:70:ASN:O	84:sM:74:LYS:HE2	2.21	0.41
36:5:277:G:OP1	92:5:4179:OHX:N6	2.53	0.41
36:5:287:G:H5'	51:m5:179:LYS:O	2.20	0.41
36:5:351:A:N6	75:o9:37:TYR:O	2.52	0.41
36:5:361:A:C2	36:5:928:C:O4'	2.73	0.41
36:5:917:A:C5	36:5:918:C:C4	3.08	0.41
36:5:1131:G:C4	36:5:2373:A:C2	3.08	0.41
36:5:1344:G:H2'	36:5:1345:G:O4'	2.20	0.41
36:5:1494:U:H4'	36:5:1495:U:O5'	2.20	0.41
36:5:2694:A:C6	36:5:2695:A:C6	3.08	0.41
36:5:3124:G:H5'	46:l9:40:HIS:ND1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3238:G:H5”	36:5:3238:G:H8	1.86	0.41
36:5:3358:U:H2’	36:5:3359:A:H8	1.86	0.41
39:l2:169:ILE:HG22	39:l2:170:ALA:O	2.20	0.41
40:l3:121:ASN:OD1	40:l3:121:ASN:N	2.53	0.41
40:l3:209:PHE:HB3	40:l3:282:ILE:CD1	2.50	0.41
41:l4:178:LEU:HD21	41:l4:225:VAL:CG2	2.50	0.41
41:l4:295:ILE:HG23	41:l4:299:ILE:HD11	2.02	0.41
42:l5:281:GLU:O	42:l5:284:ALA:HB3	2.21	0.41
48:m1:37:LEU:HD23	48:m1:37:LEU:HA	1.61	0.41
48:m1:49:LYS:HD3	48:m1:62:ASN:O	2.21	0.41
51:m5:112:ASN:OD1	51:m5:112:ASN:N	2.50	0.41
61:n5:86:VAL:HG11	61:n5:95:ILE:HD11	2.01	0.41
62:n6:39:LEU:HD21	62:n6:107:THR:O	2.20	0.41
71:o5:68:GLN:C	71:o5:70:TYR:H	2.27	0.41
77:q1:1:MET:HE2	77:q1:5:TRP:HB2	2.02	0.41
79:q3:50:GLY:O	79:q3:51:ALA:HB3	2.20	0.41
88:p0:196:VAL:HG13	88:p0:196:VAL:O	2.20	0.41
1:2:77:U:H4’	1:2:78:A:O5’	2.19	0.41
1:2:1352:G:H2’	1:2:1353:U:O4’	2.21	0.41
1:2:1558:U:C6	20:C8:122:HIS:ND1	2.89	0.41
1:2:1590:G:H2’	1:2:1591:C:C6	2.55	0.41
2:S0:20:ALA:O	2:S0:21:ASN:HB2	2.20	0.41
2:S0:48:ILE:HG21	2:S0:161:PRO:HB2	2.03	0.41
2:S0:76:ILE:O	2:S0:124:THR:HG23	2.20	0.41
2:S0:88:LYS:N	2:S0:88:LYS:HD2	2.36	0.41
4:S2:35:TRP:CD1	4:S2:35:TRP:C	2.99	0.41
4:S2:185:LYS:O	4:S2:189:GLN:HG3	2.20	0.41
5:S3:101:GLN:HG3	5:S3:126:VAL:CG2	2.51	0.41
7:S5:57:SER:C	7:S5:59:VAL:N	2.78	0.41
9:S7:4:PRO:CA	9:S7:7:LYS:HD2	2.50	0.41
9:S7:73:VAL:HG12	9:S7:77:LEU:HB2	2.03	0.41
9:S7:86:GLN:HG2	9:S7:87:ASP:H	1.85	0.41
13:C1:57:LYS:HB2	13:C1:110:HIS:CE1	2.56	0.41
14:C2:131:ASP:HB2	14:C2:132:GLU:OE1	2.21	0.41
18:C6:138:PHE:HB3	18:C6:139:GLN:H	1.66	0.41
26:D4:105:ARG:HH11	26:D4:109:LYS:HE2	1.85	0.41
36:1:139:G:H2’	36:1:140:C:C6	2.55	0.41
36:1:304:G:C6	51:M5:178:HIS:CD2	3.08	0.41
36:1:439:C:H3’	36:1:440:A:O4’	2.20	0.41
36:1:784:A:C8	54:M8:69:ARG:HG3	2.55	0.41
36:1:981:U:O2’	36:1:982:C:OP1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1613:A:OP1	74:O8:2:ALA:N	2.52	0.41
36:1:1764:U:C5	36:1:1765:U:H1'	2.56	0.41
36:1:1898:G:O2'	59:N3:21:ALA:HB2	2.20	0.41
36:1:2118:C:H2'	36:1:2119:A:O4'	2.21	0.41
36:1:2877:G:H2'	36:1:2878:G:O4'	2.21	0.41
36:1:2888:U:O2'	92:1:4108:OHX:N5	2.54	0.41
36:1:2950:G:N7	92:1:4446:OHX:N2	2.69	0.41
36:1:3043:C:P	59:N3:48:ARG:HH22	2.44	0.41
36:1:3204:C:O2'	36:1:3205:G:H5'	2.21	0.41
36:1:3259:U:H5"	36:1:3261:C:H5	1.86	0.41
38:4:133:G:O6	92:4:240:OHX:N3	2.53	0.41
41:L4:22:LEU:HA	41:L4:23:PRO:HD3	1.78	0.41
42:L5:105:ILE:HD13	42:L5:105:ILE:HA	1.91	0.41
44:L7:155:LYS:C	44:L7:156:ILE:HG13	2.46	0.41
46:L9:189:GLU:C	46:L9:191:LEU:N	2.78	0.41
62:N6:53:ASP:HB2	62:N6:110:HIS:HD2	1.85	0.41
68:O2:20:HIS:CG	68:O2:42:VAL:HG21	2.56	0.41
79:Q3:45:LYS:HE3	79:Q3:45:LYS:HB2	1.77	0.41
1:6:318:U:O4	92:6:2259:OHX:N4	2.53	0.41
1:6:773:C:OP1	6:s4:21:ASP:HB2	2.21	0.41
1:6:831:U:O2'	1:6:832:U:H5'	2.20	0.41
1:6:854:U:O4	1:6:855:A:N6	2.54	0.41
1:6:877:G:H5'	1:6:937:C:H1'	2.02	0.41
1:6:1079:U:H2'	1:6:1080:U:C6	2.56	0.41
1:6:1277:G:C4	1:6:1436:A:C2	3.09	0.41
1:6:1461:C:H1'	84:sM:76:VAL:HG11	2.02	0.41
1:6:1657:U:O2	1:6:1657:U:H2'	2.20	0.41
1:6:1715:G:C6	1:6:1716:C:N4	2.88	0.41
1:6:1797:A:N6	28:d6:84:VAL:HG22	2.34	0.41
4:s2:237:VAL:HB	4:s2:242:ILE:HD11	2.03	0.41
5:s3:32:GLU:O	5:s3:54:ARG:HB2	2.19	0.41
10:s8:36:THR:HG22	10:s8:57:ALA:O	2.20	0.41
11:s9:60:LEU:HD12	11:s9:97:LEU:HD11	2.03	0.41
81:c2:45:LEU:O	81:c2:49:THR:HG23	2.20	0.41
15:c3:88:LEU:HG	15:c3:125:LEU:HD13	2.03	0.41
16:c4:44:GLY:O	16:c4:59:ALA:HB1	2.21	0.41
26:d4:60:PHE:CE1	26:d4:71:GLY:HA3	2.55	0.41
31:d9:31:ILE:HD13	31:d9:31:ILE:HA	1.95	0.41
33:e1:77:GLY:HA2	33:e1:78:LYS:HA	1.75	0.41
36:5:79:U:C2	36:5:80:G:C8	3.08	0.41
36:5:278:U:H2'	36:5:279:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1025:A:H5'	36:5:1026:A:OP2	2.20	0.41
36:5:1073:U:H3	36:5:1085:A:H61	1.69	0.41
36:5:1593:A:N3	36:5:1615:C:O2'	2.52	0.41
36:5:2658:G:C6	36:5:2659:G:N7	2.89	0.41
40:l3:261:MET:HE3	40:l3:261:MET:HB3	1.77	0.41
41:l4:193:LYS:O	41:l4:193:LYS:HG2	2.19	0.41
42:l5:235:SER:O	42:l5:239:ILE:HG13	2.21	0.41
43:l6:82:ARG:HH11	43:l6:82:ARG:HD2	1.73	0.41
44:l7:84:VAL:HG11	44:l7:127:LEU:HD11	2.03	0.41
47:m0:98:ARG:HA	47:m0:121:LYS:O	2.21	0.41
52:m6:58:LEU:HA	52:m6:58:LEU:HD12	1.77	0.41
58:n2:38:ILE:O	58:n2:50:LEU:HD11	2.20	0.41
59:n3:54:LEU:HD11	59:n3:79:VAL:O	2.20	0.41
61:n5:105:VAL:HG13	61:n5:130:TYR:CD2	2.55	0.41
62:n6:45:ILE:HD11	62:n6:122:LYS:HB2	2.02	0.41
69:o3:52:VAL:HG22	69:o3:66:VAL:HG22	2.03	0.41
1:2:74:U:O2'	1:2:75:U:OP2	2.35	0.41
1:2:498:G:O2'	1:2:499:U:O5'	2.25	0.41
1:2:773:C:OP1	6:S4:22:LYS:N	2.54	0.41
1:2:876:G:H1'	1:2:944:A:O4'	2.21	0.41
1:2:1561:U:H2'	1:2:1562:G:H8	1.86	0.41
1:2:1766:A:N1	28:D6:80:HIS:ND1	2.53	0.41
2:S0:79:ARG:O	2:S0:83:GLN:HG3	2.20	0.41
3:S1:41:ARG:HH22	3:S1:97:LEU:HD21	1.86	0.41
4:S2:59:HIS:CD2	4:S2:238:SER:HA	2.56	0.41
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.20	0.41
8:S6:78:THR:HG23	8:S6:92:ARG:HG2	2.02	0.41
9:S7:170:GLN:HG2	9:S7:181:ILE:HG22	2.02	0.41
10:S8:84:HIS:NE2	10:S8:97:THR:OG1	2.38	0.41
13:C1:57:LYS:HB2	13:C1:110:HIS:NE2	2.36	0.41
17:C5:85:ILE:HA	17:C5:89:MET:SD	2.60	0.41
17:C5:86:VAL:O	17:C5:88:GLU:N	2.54	0.41
17:C5:124:THR:O	17:C5:125:PRO:C	2.63	0.41
19:C7:74:GLN:O	19:C7:78:ARG:HD3	2.21	0.41
23:D1:3:ASN:O	23:D1:4:ASP:C	2.64	0.41
34:SR:178:VAL:HB	34:SR:192:PHE:HB2	2.02	0.41
36:1:3:U:H2'	36:1:4:U:C6	2.56	0.41
36:1:425:G:C5	36:1:635:G:C2	3.09	0.41
36:1:677:A:H4'	36:1:678:G:O5'	2.20	0.41
36:1:701:G:H2'	36:1:702:C:C6	2.55	0.41
36:1:916:G:H1	39:L2:207:VAL:HG21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:994:G:N2	36:1:1053:A:H2'	2.36	0.41
36:1:1017:C:O2'	36:1:1018:G:P	2.79	0.41
36:1:1184:A:O2'	36:1:1185:C:H5'	2.21	0.41
36:1:1940:G:H2'	36:1:1941:C:O4'	2.21	0.41
36:1:2314:U:H6	36:1:2314:U:H2'	1.38	0.41
36:1:2873:U:H2'	92:1:4436:OHX:N1	2.35	0.41
41:L4:60:THR:HG21	41:L4:77:VAL:HG22	2.03	0.41
41:L4:230:VAL:HG12	41:L4:258:LEU:HD13	2.03	0.41
42:L5:278:SER:HB2	42:L5:280:GLU:OE1	2.21	0.41
45:L8:97:TYR:O	45:L8:132:VAL:HG12	2.20	0.41
45:L8:156:ASP:HB2	45:L8:157:VAL:H	1.67	0.41
46:L9:84:LYS:O	46:L9:187:ILE:HB	2.20	0.41
46:L9:109:ALA:O	46:L9:110:LYS:HB2	2.21	0.41
49:M3:50:PRO:O	49:M3:52:ASP:N	2.47	0.41
52:M6:138:LEU:HA	52:M6:138:LEU:HD12	1.73	0.41
54:M8:144:ARG:HG3	91:M8:202:MG:MG	1.46	0.41
55:M9:182:ASP:N	55:M9:182:ASP:OD1	2.54	0.41
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	2.01	0.41
58:N2:22:PRO:HB3	58:N2:107:PHE:HD1	1.86	0.41
64:N8:133:LEU:HD22	64:N8:137:LYS:HG3	2.02	0.41
69:O3:103:TYR:HA	69:O3:105:SER:N	2.35	0.41
71:O5:38:ARG:HD2	71:O5:41:LEU:HD13	2.03	0.41
1:6:321:C:H42	1:6:1666:U:H5"	1.86	0.41
1:6:358:U:OP2	92:6:2258:OHX:N6	2.54	0.41
1:6:1138:A:H2'	1:6:1139:A:H8	1.86	0.41
10:s8:135:LYS:HB2	10:s8:136:SER:H	1.71	0.41
82:c5:78:THR:OG1	82:c5:79:HIS:N	2.54	0.41
19:c7:21:TYR:CD2	19:c7:58:MET:HE1	2.56	0.41
22:d0:97:VAL:HG13	22:d0:98:GLN:H	1.84	0.41
36:5:124:U:H1'	36:5:149:U:O2	2.21	0.41
36:5:805:G:H1'	41:l4:73:ARG:HH11	1.86	0.41
36:5:1000:C:C2	36:5:1045:C:N4	2.89	0.41
36:5:1763:U:H3'	36:5:1764:U:C5	2.56	0.41
36:5:2350:C:H4'	36:5:3308:C:O2'	2.21	0.41
36:5:2378:C:H2'	36:5:2379:U:C6	2.56	0.41
36:5:2404:A:H2'	36:5:2405:C:C5'	2.50	0.41
36:5:2422:C:O2'	51:m5:87:GLN:OE1	2.26	0.41
36:5:2709:C:H2'	36:5:2710:C:H6	1.85	0.41
36:5:2853:A:H5"	47:m0:3:ARG:HH21	1.84	0.41
36:5:2971:A:H4'	36:5:2972:G:OP2	2.21	0.41
36:5:2979:U:N3	92:5:4409:OHX:N4	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3160:U:O2	36:5:3291:G:C2	2.74	0.41
42:l5:85:ARG:HH12	42:l5:254:LYS:H	1.69	0.41
85:l8:68:ARG:H	85:l8:68:ARG:HG2	1.46	0.41
46:l9:175:PHE:CD2	46:l9:175:PHE:N	2.89	0.41
47:m0:12:GLN:HB3	47:m0:128:ARG:NH2	2.35	0.41
48:m1:109:HIS:HD2	48:m1:114:ILE:HG21	1.84	0.41
50:m4:64:VAL:HG22	50:m4:99:TRP:HH2	1.85	0.41
55:m9:17:VAL:HG13	55:m9:18:GLY:O	2.20	0.41
59:n3:46:LEU:O	59:n3:47:ASN:HB2	2.20	0.41
63:n7:110:ALA:O	63:n7:114:VAL:HG23	2.20	0.41
64:n8:118:ILE:HB	64:n8:119:PRO:HD2	2.03	0.41
66:o0:66:LYS:HD2	66:o0:66:LYS:N	2.36	0.41
68:o2:109:LEU:HD23	68:o2:109:LEU:HA	1.89	0.41
69:o3:106:ASN:O	69:o3:106:ASN:ND2	2.52	0.41
70:o4:8:ARG:NH2	70:o4:31:ARG:HH11	2.19	0.41
1:2:538:A:H8	1:2:543:C:N4	2.19	0.41
1:2:648:G:C6	1:2:649:U:C4	3.09	0.41
1:2:700:C:N4	1:2:738:G:H1	2.14	0.41
1:2:778:G:O6	26:D4:10:ARG:HG2	2.21	0.41
1:2:1032:G:C6	1:2:1104:U:C4	3.08	0.41
1:2:1253:U:H4’	33:E1:143:LYS:N	2.36	0.41
1:2:1426:C:H5”	35:SM:93:ARG:NH1	2.34	0.41
1:2:1521:G:O6	21:C9:68:ARG:NH1	2.54	0.41
1:2:1658:G:C4	1:2:1659:A:C8	3.08	0.41
1:2:1716:C:O2’	1:2:1717:G:O5’	2.28	0.41
3:S1:27:LYS:NZ	3:S1:48:VAL:O	2.30	0.41
6:S4:95:THR:HG22	26:D4:16:PRO:CG	2.51	0.41
9:S7:39:ARG:N	9:S7:40:PRO:HD2	2.36	0.41
10:S8:82:VAL:HG12	10:S8:196:LEU:HD11	2.02	0.41
15:C3:92:ILE:O	15:C3:96:VAL:HG23	2.21	0.41
20:C8:11:PHE:CD2	20:C8:11:PHE:C	2.96	0.41
34:SR:66:HIS:HB3	34:SR:85:TRP:HB2	2.03	0.41
36:1:578:A:H2’	41:L4:334:PHE:CD2	2.56	0.41
36:1:623:U:O3’	69:O3:86:ARG:NH2	2.54	0.41
36:1:856:G:C6	36:1:857:G:N1	2.89	0.41
36:1:1245:A:C3’	36:1:1246:G:H5”	2.49	0.41
36:1:1740:U:H1’	36:1:1741:A:C2	2.47	0.41
36:1:1746:U:O2’	74:O8:4:GLU:OE1	2.38	0.41
36:1:1940:G:N2	36:1:3362:A:C8	2.84	0.41
36:1:3007:U:OP1	52:M6:73:PHE:HA	2.21	0.41
36:1:3165:A:H2’	36:1:3166:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:79:A:C8	38:4:79:A:OP2	2.74	0.41
44:L7:163:LEU:HA	44:L7:163:LEU:HD23	1.85	0.41
47:M0:77:THR:HG23	47:M0:85:PHE:HZ	1.85	0.41
47:M0:217:PHE:O	47:M0:218:ALA:HB2	2.20	0.41
51:M5:58:GLY:HA3	51:M5:142:ILE:CD1	2.50	0.41
52:M6:27:LEU:HD23	52:M6:27:LEU:HA	1.81	0.41
53:M7:74:LYS:C	53:M7:76:PHE:H	2.29	0.41
54:M8:53:PHE:CD1	54:M8:53:PHE:N	2.89	0.41
55:M9:105:LEU:HD12	55:M9:135:LYS:CD	2.50	0.41
60:N4:57:LYS:HE3	60:N4:57:LYS:HB2	1.66	0.41
62:N6:38:GLU:HG2	62:N6:39:LEU:HD23	2.03	0.41
63:N7:87:LEU:HD13	63:N7:127:ASN:CG	2.46	0.41
65:N9:11:ASN:O	65:N9:15:LYS:HG3	2.20	0.41
68:O2:55:ILE:HD12	68:O2:55:ILE:HA	1.69	0.41
76:Q0:96:CYS:C	76:Q0:98:LYS:H	2.29	0.41
1:6:17:C:H2'	1:6:18:C:H6	1.85	0.41
1:6:79:C:OP1	8:s6:159:ARG:NH2	2.45	0.41
1:6:188:A:H2'	1:6:189:C:O4'	2.20	0.41
1:6:399:A:C2	6:s4:3:ARG:NH1	2.88	0.41
1:6:509:G:H2'	1:6:510:G:O4'	2.21	0.41
1:6:1391:A:H2'	1:6:1392:U:C6	2.55	0.41
2:s0:13:ASP:O	2:s0:16:LEU:N	2.54	0.41
2:s0:49:ASN:HB3	2:s0:52:LYS:HG3	2.02	0.41
7:s5:72:HIS:HA	7:s5:107:LYS:HE2	2.02	0.41
10:s8:76:THR:HG21	10:s8:105:ASP:O	2.21	0.41
22:d0:108:ILE:HD12	22:d0:108:ILE:HA	1.86	0.41
26:d4:131:ARG:HA	26:d4:131:ARG:HD2	1.95	0.41
83:sR:112:SER:HB2	83:sR:153:GLN:HA	2.02	0.41
83:sR:123:ILE:HG21	83:sR:169:ILE:HD13	2.03	0.41
36:5:244:G:C6	36:5:245:U:C4	3.08	0.41
36:5:1160:C:N3	68:o2:45:ARG:NH1	2.67	0.41
36:5:1448:U:H2'	36:5:1449:A:H8	1.86	0.41
36:5:2192:C:O2'	36:5:2312:A:N1	2.46	0.41
36:5:2615:G:H1	36:5:2625:C:H42	1.69	0.41
36:5:2895:G:H5"	36:5:3108:G:H5'	2.02	0.41
36:5:2968:G:N7	39:l2:215:ASN:HB2	2.35	0.41
37:7:119:U:OP1	42:l5:256:THR:HG23	2.21	0.41
41:l4:210:ALA:HB2	41:l4:254:ALA:HA	2.02	0.41
41:l4:230:VAL:O	41:l4:232:SER:N	2.53	0.41
43:l6:51:ARG:HH11	43:l6:51:ARG:HD3	1.75	0.41
44:l7:82:LYS:O	44:l7:119:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:117:GLY:O	92:m0:303:OHX:N6	2.54	0.41
49:m3:32:LYS:HA	49:m3:35:ARG:NH1	2.36	0.41
55:m9:173:ARG:HE	55:m9:177:VAL:CG2	2.34	0.41
66:o0:42:ILE:HA	66:o0:90:VAL:O	2.21	0.41
74:o8:66:ILE:H	74:o8:66:ILE:HG13	1.62	0.41
1:2:42:G:H4'	1:2:43:A:O5'	2.21	0.41
1:2:67:A:O3'	1:2:68:A:H3'	2.21	0.41
1:2:196:G:O2'	1:2:197:A:OP2	2.37	0.41
1:2:373:G:N7	92:2:2229:OHX:N6	2.69	0.41
1:2:694:U:O2	1:2:694:U:H2'	2.21	0.41
1:2:778:G:N7	1:2:780:A:H5'	2.36	0.41
1:2:852:C:H6	1:2:852:C:O5'	2.04	0.41
1:2:943:C:N4	28:D6:15:ARG:HG2	2.36	0.41
1:2:1101:G:O2'	24:D2:4:SER:HB2	2.21	0.41
2:S0:58:VAL:O	2:S0:62:ARG:HB2	2.21	0.41
2:S0:187:ALA:O	2:S0:188:LEU:HD22	2.21	0.41
3:S1:206:PRO:HB2	3:S1:207:LEU:H	1.75	0.41
5:S3:71:LEU:HA	5:S3:71:LEU:HD23	1.77	0.41
6:S4:87:MET:HE3	6:S4:226:PHE:CE1	2.56	0.41
8:S6:6:SER:OG	8:S6:112:VAL:HG22	2.21	0.41
8:S6:148:SER:O	8:S6:150:GLU:N	2.41	0.41
9:S7:111:LYS:HB3	9:S7:112:ARG:H	1.62	0.41
10:S8:196:LEU:HA	10:S8:196:LEU:HD12	1.63	0.41
11:S9:3:ARG:H	11:S9:3:ARG:HH21	1.68	0.41
12:C0:46:LEU:HD13	12:C0:46:LEU:HA	1.86	0.41
13:C1:118:GLN:HG2	13:C1:119:VAL:N	2.35	0.41
13:C1:131:ILE:HA	13:C1:131:ILE:HD13	1.78	0.41
14:C2:68:GLU:C	14:C2:70:ASN:H	2.28	0.41
16:C4:24:ASN:O	16:C4:54:GLU:HB3	2.21	0.41
17:C5:125:PRO:HG3	20:C8:129:TRP:CH2	2.56	0.41
18:C6:53:LEU:H	18:C6:53:LEU:HG	1.50	0.41
21:C9:30:VAL:O	21:C9:31:PRO:C	2.64	0.41
24:D2:43:LYS:O	24:D2:43:LYS:HG3	2.18	0.41
24:D2:90:THR:O	24:D2:94:LEU:HB2	2.20	0.41
25:D3:54:LEU:HD11	25:D3:75:GLN:HB2	2.03	0.41
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.56	0.41
29:D7:33:LEU:HD12	29:D7:46:VAL:HB	2.03	0.41
30:D8:64:ARG:HA	30:D8:64:ARG:HD2	1.80	0.41
33:E1:90:LYS:HB3	33:E1:90:LYS:HE3	1.72	0.41
33:E1:126:CYS:O	33:E1:128:ALA:N	2.51	0.41
36:1:121:A:C6	45:L8:129:PRO:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:439:C:H5'	36:1:440:A:C8	2.56	0.41
36:1:641:C:H2'	36:1:642:U:O4'	2.21	0.41
36:1:647:A:H8	36:1:647:A:OP2	2.04	0.41
36:1:873:C:H4'	36:1:874:U:OP2	2.21	0.41
36:1:975:C:H2'	36:1:976:U:H6	1.86	0.41
36:1:1118:C:O2	36:1:1154:A:H2	2.04	0.41
36:1:1307:G:C2	36:1:1308:A:C2	3.09	0.41
36:1:1336:U:H2'	36:1:1337:A:C8	2.56	0.41
36:1:1369:A:H2'	36:1:1370:G:O4'	2.21	0.41
36:1:1581:C:C2	36:1:1582:C:H5'	2.55	0.41
36:1:1659:U:H2'	36:1:1660:C:C6	2.56	0.41
36:1:1913:A:N3	36:1:2120:A:H2'	2.36	0.41
36:1:2383:C:H5'	52:M6:71:PHE:CE2	2.56	0.41
36:1:2529:A:C2	36:1:2582:C:C2	3.08	0.41
36:1:2664:C:OP2	48:M1:142:LYS:NZ	2.40	0.41
36:1:2826:U:O4	92:1:4101:OHX:N3	2.54	0.41
36:1:2877:G:N7	92:1:4429:OHX:N2	2.69	0.41
36:1:3011:A:C5	40:L3:13:HIS:CD2	3.09	0.41
36:1:3065:G:H2'	36:1:3066:U:O4'	2.21	0.41
36:1:3187:A:H5"	50:M4:8:LYS:HE2	2.03	0.41
36:1:3205:G:H2'	36:1:3206:C:C5	2.56	0.41
36:1:3216:G:H3'	36:1:3219:G:N3	2.36	0.41
38:4:5:U:H2'	38:4:6:U:O4'	2.21	0.41
38:4:31:G:OP2	92:4:236:OHX:N1	2.54	0.41
38:4:71:A:H2	38:4:82:U:O2	2.04	0.41
39:L2:109:GLU:OE1	39:L2:138:GLY:HA2	2.21	0.41
40:L3:362:ALA:HB2	40:L3:371:GLN:HE22	1.85	0.41
41:L4:77:VAL:HG12	41:L4:85:SER:HA	2.02	0.41
41:L4:141:ARG:CB	41:L4:176:SER:HB3	2.50	0.41
42:L5:152:ARG:O	42:L5:154:THR:N	2.54	0.41
44:L7:77:VAL:CG2	57:N1:139:ARG:HG2	2.49	0.41
45:L8:182:GLY:O	45:L8:186:LEU:HG	2.21	0.41
47:M0:102:MET:HE3	47:M0:102:MET:HB2	1.81	0.41
48:M1:12:LEU:HD12	48:M1:131:MET:HE3	2.02	0.41
48:M1:133:ARG:HB2	48:M1:152:HIS:NE2	2.36	0.41
49:M3:85:LEU:HD22	49:M3:120:GLN:OE1	2.21	0.41
49:M3:91:ARG:CZ	49:M3:97:VAL:HB	2.50	0.41
50:M4:89:ALA:O	50:M4:92:GLU:HG2	2.20	0.41
51:M5:66:VAL:CG2	51:M5:98:LEU:HB3	2.51	0.41
52:M6:14:HIS:O	52:M6:41:LEU:HD12	2.21	0.41
56:N0:52:LYS:O	56:N0:53:LYS:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:148:LEU:HD12	56:N0:149:LYS:H	1.85	0.41
63:N7:88:ASP:HB3	63:N7:121:ARG:HH21	1.80	0.41
64:N8:47:LYS:C	64:N8:49:HIS:H	2.28	0.41
67:O1:16:LEU:HD12	67:O1:16:LEU:HA	1.78	0.41
69:O3:17:GLN:HA	69:O3:29:LEU:HD11	2.03	0.41
71:O5:6:ALA:O	71:O5:10:ARG:HG3	2.21	0.41
74:O8:26:LYS:O	74:O8:41:THR:HA	2.21	0.41
77:Q1:13:LEU:HD11	77:Q1:17:ARG:CZ	2.51	0.41
1:6:89:G:C6	1:6:90:C:C4	3.09	0.41
1:6:165:G:H2'	1:6:166:C:H5"	2.03	0.41
1:6:166:C:OP2	92:6:2271:OHX:N4	2.54	0.41
1:6:197:A:H2'	1:6:198:A:H8	1.86	0.41
1:6:334:G:O6	10:s8:5:ARG:NH2	2.54	0.41
1:6:473:A:H5'	1:6:769:A:H1'	2.03	0.41
1:6:632:U:H5"	25:d3:10:ASN:O	2.21	0.41
1:6:648:G:C2	1:6:687:G:C2	3.08	0.41
1:6:793:A:C3'	1:6:794:U:H5'	2.47	0.41
1:6:955:A:H2'	1:6:956:C:O4'	2.21	0.41
1:6:1099:U:H5"	24:d2:71:LYS:NZ	2.35	0.41
1:6:1230:A:H8	1:6:1258:U:C5	2.39	0.41
1:6:1613:U:C4	1:6:1614:A:N1	2.89	0.41
1:6:1671:A:H2'	1:6:1672:G:O4'	2.20	0.41
4:s2:144:TRP:CE2	4:s2:173:PRO:HG3	2.56	0.41
4:s2:214:ALA:O	4:s2:218:ILE:HG12	2.21	0.41
7:s5:150:GLY:C	7:s5:152:GLY:H	2.29	0.41
9:s7:20:VAL:O	9:s7:24:PHE:N	2.54	0.41
9:s7:31:SER:HA	9:s7:35:LYS:CB	2.51	0.41
10:s8:97:THR:O	10:s8:100:ALA:HB2	2.21	0.41
11:s9:150:LEU:O	11:s9:153:GLU:HB2	2.21	0.41
11:s9:178:ALA:O	11:s9:182:GLU:HG3	2.21	0.41
80:c0:71:GLU:H	80:c0:71:GLU:HG2	1.43	0.41
81:c2:62:LEU:HD12	81:c2:63:VAL:H	1.86	0.41
15:c3:20:ARG:HD3	24:d2:56:HIS:NE2	2.35	0.41
15:c3:127:ARG:O	15:c3:127:ARG:HG3	2.20	0.41
82:c5:57:MET:SD	82:c5:89:MET:HE2	2.61	0.41
18:c6:21:HIS:HB2	18:c6:66:ARG:HB3	2.03	0.41
18:c6:31:VAL:HA	18:c6:67:VAL:O	2.21	0.41
21:c9:45:MET:HE3	21:c9:46:PRO:HD2	2.02	0.41
22:d0:42:VAL:HG21	22:d0:55:PRO:HD3	2.03	0.41
23:d1:38:LYS:O	23:d1:46:ILE:HD12	2.20	0.41
26:d4:60:PHE:HA	26:d4:70:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:d5:46:LYS:O	27:d5:50:ILE:HG13	2.20	0.41
27:d5:103:ARG:HG2	27:d5:104:ALA:N	2.36	0.41
29:d7:3:LEU:HD23	29:d7:3:LEU:HA	1.78	0.41
29:d7:63:LEU:HD23	29:d7:63:LEU:HA	1.91	0.41
30:d8:13:ILE:HD11	30:d8:31:GLU:HG3	2.03	0.41
33:e1:97:LYS:HA	33:e1:97:LYS:HD2	1.93	0.41
83:sR:108:SER:OG	83:sR:109:ASP:N	2.53	0.41
84:sM:25:ILE:HG12	37:7:39:C:H5'	2.02	0.41
36:5:139:G:H2'	36:5:140:C:C6	2.56	0.41
36:5:177:U:OP2	92:5:4275:OHX:N6	2.54	0.41
36:5:609:G:OP2	41:l4:315:LYS:NZ	2.46	0.41
36:5:686:G:C6	36:5:687:U:C2	3.09	0.41
36:5:908:G:H3'	51:m5:81:TYR:OH	2.20	0.41
36:5:973:A:H2'	36:5:974:G:O4'	2.21	0.41
36:5:1296:C:H5'	56:n0:115:ARG:NH1	2.36	0.41
36:5:1302:A:N1	36:5:2832:C:O2'	2.42	0.41
36:5:1328:C:H2'	36:5:1329:U:C6	2.56	0.41
36:5:1339:C:OP1	68:o2:61:LYS:HD3	2.20	0.41
36:5:1415:U:H2'	36:5:1416:C:O4'	2.20	0.41
36:5:1561:G:H1	36:5:1578:C:N4	2.19	0.41
36:5:1602:A:O3'	55:m9:9:ARG:NH2	2.53	0.41
36:5:1634:G:N7	63:n7:17:ARG:NH2	2.53	0.41
36:5:1640:G:C6	36:5:1641:U:C4	3.09	0.41
36:5:1647:A:C2	36:5:1809:A:H1'	2.56	0.41
36:5:1694:U:N3	36:5:1695:U:C4	2.89	0.41
36:5:1700:G:H2'	36:5:1701:C:C6	2.55	0.41
36:5:2615:G:H2'	36:5:2616:C:C6	2.55	0.41
36:5:2623:G:H2'	36:5:2624:G:O4'	2.21	0.41
36:5:2998:U:C4	36:5:2999:U:C4	3.09	0.41
36:5:3052:G:N7	92:5:4441:OHX:N3	2.68	0.41
36:5:3269:U:H5'	36:5:3271:G:O4'	2.21	0.41
92:5:4260:OHX:N5	44:l7:217:PRO:O	2.54	0.41
38:8:131:A:H5"	61:n5:93:TYR:CE2	2.56	0.41
40:l3:148:LEU:HD12	40:l3:148:LEU:HA	1.84	0.41
40:l3:151:ILE:O	40:l3:155:ALA:HB3	2.21	0.41
40:l3:161:LEU:HD23	40:l3:161:LEU:HA	1.89	0.41
40:l3:205:VAL:H	40:l3:205:VAL:HG22	1.61	0.41
42:l5:55:PHE:CZ	42:l5:158:ARG:HB3	2.55	0.41
42:l5:146:LEU:HD13	42:l5:148:ILE:CD1	2.50	0.41
42:l5:208:MET:HE1	42:l5:226:TYR:CD1	2.56	0.41
85:l8:72:PRO:HA	85:l8:73:PRO:HD3	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:150:GLU:O	47:m0:154:ARG:N	2.39	0.41
49:m3:100:ARG:O	49:m3:101:ARG:CB	2.69	0.41
53:m7:67:ILE:N	53:m7:67:ILE:HD13	2.36	0.41
53:m7:131:ARG:HG3	53:m7:137:ASN:OD1	2.21	0.41
87:n4:39:LEU:HD12	87:n4:44:LYS:HG3	2.03	0.41
87:n4:57:LYS:O	87:n4:59:HIS:N	2.54	0.41
87:n4:120:LYS:NZ	87:n4:124:LYS:HE3	2.35	0.41
87:n4:127:LYS:HA	87:n4:130:SER:OG	2.21	0.41
87:n4:127:LYS:NZ	87:n4:131:ALA:HB2	2.36	0.41
62:n6:95:VAL:HA	62:n6:96:PRO:HD3	1.94	0.41
62:n6:109:LEU:HB2	62:n6:111:LEU:HD11	2.03	0.41
62:n6:115:ARG:O	62:n6:119:ILE:HG13	2.21	0.41
62:n6:126:LEU:HD22	62:n6:127:GLU:OE2	2.21	0.41
63:n7:3:LYS:HE3	63:n7:5:LEU:HD12	2.03	0.41
63:n7:84:ARG:HA	66:o0:62:LEU:HD21	2.03	0.41
65:n9:7:HIS:CG	65:n9:8:THR:N	2.88	0.41
66:o0:10:ILE:HG12	66:o0:68:TYR:OH	2.21	0.41
66:o0:28:LYS:HB3	66:o0:28:LYS:HE2	1.90	0.41
68:o2:82:LEU:HD11	68:o2:112:ALA:HB2	2.03	0.41
1:2:18:C:C4	1:2:19:A:N7	2.89	0.41
1:2:187:G:H1'	1:2:199:G:H22	1.85	0.41
1:2:393:C:H2'	1:2:394:C:C6	2.55	0.41
1:2:748:U:H2'	1:2:749:U:C6	2.56	0.41
1:2:803:A:C4	9:S7:104:ARG:HG3	2.56	0.41
1:2:1200:G:H4'	1:2:1201:G:C5'	2.51	0.41
1:2:1291:G:H8	1:2:1291:G:O5'	2.04	0.41
1:2:1345:A:OP1	22:D0:54:GLY:N	2.51	0.41
1:2:1354:G:C5	1:2:1355:C:C5	3.09	0.41
1:2:1520:U:OP2	21:C9:75:LYS:NZ	2.48	0.41
5:S3:176:LEU:H	5:S3:176:LEU:HD12	1.86	0.41
5:S3:222:VAL:HG12	34:SR:230:ALA:HB2	2.02	0.41
7:S5:120:ILE:HG23	27:D5:59:TYR:CE1	2.56	0.41
8:S6:63:MET:HA	8:S6:98:ARG:O	2.20	0.41
9:S7:35:LYS:HE3	9:S7:35:LYS:HB3	1.94	0.41
10:S8:164:ARG:NH1	36:1:3354:U:O2'	2.53	0.41
22:D0:65:ILE:HD11	31:D9:36:LEU:HD21	2.03	0.41
28:D6:19:LYS:HB2	28:D6:19:LYS:HE3	1.70	0.41
31:D9:5:ASN:N	31:D9:5:ASN:HD22	2.19	0.41
36:1:104:G:H2'	36:1:105:C:O4'	2.21	0.41
36:1:641:C:H42	36:1:645:A:H8	1.70	0.41
36:1:1146:C:H4'	36:1:1331:U:C5	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1231:A:N1	36:1:1279:C:N4	2.69	0.41
36:1:1525:G:N3	36:1:1525:G:H2'	2.36	0.41
36:1:2167:A:OP1	51:M5:72:LYS:NZ	2.48	0.41
36:1:2179:C:O3'	39:L2:174:ARG:NH2	2.48	0.41
36:1:2586:G:N7	45:L8:241:LYS:HB2	2.36	0.41
36:1:2875:U:H3	36:1:2952:G:H1	1.69	0.41
36:1:2989:U:H2'	36:1:2990:G:O4'	2.20	0.41
36:1:3004:C:H4'	40:L3:99:LEU:O	2.21	0.41
36:1:3111:U:H2'	36:1:3112:G:H5'	2.03	0.41
36:1:3156:U:HO2'	36:1:3157:U:C5'	2.33	0.41
38:4:136:G:P	61:N5:48:SER:HG	2.38	0.41
42:L5:20:PHE:HD1	42:L5:30:TYR:CE1	2.39	0.41
42:L5:119:TYR:OH	42:L5:135:VAL:N	2.42	0.41
47:M0:23:ASN:O	47:M0:25:ALA:N	2.50	0.41
55:M9:21:LYS:HE3	55:M9:55:VAL:HA	2.03	0.41
56:N0:142:GLN:HE21	56:N0:142:GLN:HB2	1.65	0.41
59:N3:83:LYS:HE2	59:N3:84:SER:N	2.36	0.41
66:O0:36:GLN:HB3	66:O0:38:LYS:HG3	2.02	0.41
67:O1:29:ALA:HB3	67:O1:30:PRO:HD3	2.03	0.41
70:O4:74:ARG:CZ	70:O4:74:ARG:HB3	2.51	0.41
70:O4:104:VAL:HA	70:O4:107:GLU:OE2	2.20	0.41
74:O8:33:LYS:HD3	74:O8:33:LYS:HA	1.93	0.41
1:6:570:A:H5"	1:6:571:G:OP2	2.21	0.41
1:6:730:G:C5	1:6:731:C:C4	3.09	0.41
1:6:1354:G:H5'	1:6:1355:C:OP2	2.20	0.41
1:6:1668:G:N7	92:6:2201:OHX:N3	2.69	0.41
1:6:1756[B]:A:O2'	1:6:1757:G:H5'	2.21	0.41
2:s0:38:PHE:HD2	2:s0:49:ASN:HD22	1.68	0.41
5:s3:53:THR:HG22	5:s3:91:VAL:HG11	2.02	0.41
9:s7:5:GLN:O	9:s7:8:ILE:HG22	2.20	0.41
9:s7:151:LYS:HA	9:s7:182:VAL:O	2.21	0.41
81:c2:88:LEU:HD12	81:c2:88:LEU:HA	1.86	0.41
15:c3:125:LEU:HD23	15:c3:125:LEU:HA	1.86	0.41
20:c8:132:ARG:HD3	20:c8:132:ARG:HA	1.94	0.41
27:d5:83:LEU:HA	27:d5:83:LEU:HD23	1.84	0.41
83:sR:37:SER:OG	83:sR:38:ARG:N	2.54	0.41
83:sR:228:LYS:HB2	83:sR:228:LYS:HE3	1.74	0.41
36:5:564:G:H2'	36:5:565:U:C6	2.56	0.41
36:5:770:G:O6	92:5:4351:OHX:N6	2.54	0.41
36:5:817:A:O2'	73:o7:11:ARG:HG2	2.21	0.41
36:5:1024:G:N7	36:5:1027:A:N6	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1284:C:O2'	36:5:1285:G:OP1	2.37	0.41
36:5:1433:A:OP1	68:o2:19:ARG:NH2	2.46	0.41
36:5:1889:G:OP1	40:l3:247:ARG:HG3	2.20	0.41
37:7:7:G:OP1	42:l5:33:ARG:HD2	2.21	0.41
40:l3:50:LYS:HG2	40:l3:331:ASN:O	2.20	0.41
40:l3:325:LYS:HG2	40:l3:326:GLY:N	2.36	0.41
41:l4:182:LEU:HD12	41:l4:182:LEU:HA	1.90	0.41
49:m3:59:ARG:O	49:m3:60:ALA:HB3	2.21	0.41
66:o0:25:LEU:HD22	66:o0:90:VAL:HG22	2.03	0.41
71:o5:62:GLN:O	71:o5:66:VAL:HG23	2.20	0.41
1:2:102:U:O4	1:2:360:A:H2'	2.21	0.40
1:2:142:G:N3	1:2:142:G:H2'	2.36	0.40
1:2:221:A:H3'	1:2:833:U:O2	2.21	0.40
1:2:706:A:C6	1:2:734:A:N6	2.88	0.40
1:2:826:U:H2'	1:2:827:C:H6	1.87	0.40
1:2:927:C:H1'	16:C4:125:SER:HB2	2.03	0.40
1:2:1337:A:H5'	1:2:1338:C:OP2	2.21	0.40
1:2:1553:G:O6	17:C5:43:ARG:HD3	2.21	0.40
3:S1:179:SER:HB3	3:S1:183:GLN:CD	2.45	0.40
6:S4:42:LEU:CD2	6:S4:46:VAL:HB	2.51	0.40
7:S5:222:LYS:HG3	7:S5:225:ARG:NH2	2.36	0.40
13:C1:44:THR:O	13:C1:44:THR:OG1	2.34	0.40
17:C5:69:GLU:CD	92:C5:202:OHX:N6	2.79	0.40
17:C5:130:ARG:HD3	35:SM:74:LYS:HG2	2.03	0.40
19:C7:19:ARG:HG3	19:C7:20:TYR:HD1	1.86	0.40
20:C8:87:ASN:OD1	20:C8:88:ARG:N	2.54	0.40
36:1:345:G:O2'	38:4:25:G:N3	2.52	0.40
36:1:401:U:H4'	36:1:403:C:C2	2.56	0.40
36:1:556:U:OP2	92:1:4376:OHX:N2	2.54	0.40
36:1:997:A:H2'	36:1:998:A:O4'	2.22	0.40
36:1:1159:A:O2'	36:1:1160:C:H5"	2.21	0.40
36:1:1498:A:H2'	36:1:1499:C:H6	1.86	0.40
36:1:2226:U:O2'	36:1:2227:C:H5'	2.21	0.40
36:1:2241:U:O2'	39:L2:243:THR:HG22	2.21	0.40
36:1:2656:A:C8	36:1:2658:G:C8	3.09	0.40
36:1:2689:A:N3	36:1:2689:A:H2'	2.35	0.40
36:1:2821:C:C4	92:1:4436:OHX:N6	2.89	0.40
36:1:2970:C:HO2'	36:1:2971:A:H2	1.66	0.40
36:1:3067:C:H5"	55:M9:58:HIS:CD2	2.56	0.40
37:3:5:G:O3'	42:L5:54:ARG:HG3	2.21	0.40
38:4:127:U:H2'	38:4:128:U:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:139:GLN:H	40:L3:139:GLN:HG3	1.67	0.40
41:L4:23:PRO:O	41:L4:25:VAL:N	2.54	0.40
44:L7:92:ILE:HA	44:L7:92:ILE:HD12	1.58	0.40
49:M3:133:PRO:O	49:M3:134:GLU:C	2.64	0.40
51:M5:204:LYS:HE2	51:M5:204:LYS:HB3	1.91	0.40
52:M6:157:GLU:OE1	52:M6:160:ARG:NH1	2.54	0.40
54:M8:83:VAL:O	54:M8:103:ALA:HA	2.21	0.40
57:N1:71:SER:HB3	57:N1:91:LEU:O	2.21	0.40
65:N9:46:ALA:O	65:N9:50:THR:HG22	2.20	0.40
65:N9:54:LEU:HA	65:N9:54:LEU:HD23	1.85	0.40
72:O6:97:SER:C	72:O6:99:ARG:H	2.29	0.40
1:6:4:C:O2'	11:s9:17:ARG:NH1	2.42	0.40
1:6:20:G:H5'	1:6:571:G:C8	2.56	0.40
1:6:158:U:O2'	1:6:159:U:H3'	2.21	0.40
1:6:187:G:O5'	1:6:187:G:H8	2.04	0.40
1:6:711:U:H5'	1:6:712:G:OP2	2.21	0.40
1:6:1326:A:O3'	5:s3:156:PHE:HE1	2.04	0.40
1:6:1341:A:H1'	83:sR:65:SER:OG	2.20	0.40
1:6:1369:U:O4	92:6:2181:OHX:N4	2.54	0.40
1:6:1500:C:H2'	1:6:1501:C:H6	1.86	0.40
1:6:1503:A:H2'	1:6:1504:G:O4'	2.21	0.40
1:6:1695:G:H21	1:6:1706:C:N4	2.19	0.40
4:s2:139:ILE:HD11	4:s2:191:ALA:HB1	2.02	0.40
5:s3:12:VAL:O	5:s3:16:VAL:HG23	2.21	0.40
11:s9:20:GLU:O	11:s9:24:LEU:HB2	2.21	0.40
11:s9:110:GLN:HE21	11:s9:110:GLN:HB2	1.55	0.40
15:c3:20:ARG:NH1	24:d2:56:HIS:CE1	2.89	0.40
16:c4:81:VAL:HG13	16:c4:115:ILE:HG23	2.03	0.40
18:c6:116:LEU:HD23	18:c6:116:LEU:HA	1.80	0.40
18:c6:129:PHE:CE1	22:d0:78:THR:HA	2.57	0.40
19:c7:5:ARG:HB2	19:c7:10:LYS:HZ3	1.85	0.40
20:c8:94:ASP:OD2	20:c8:98:TYR:HE2	2.04	0.40
22:d0:16:GLN:HG3	22:d0:17:GLN:H	1.85	0.40
23:d1:11:LEU:H	23:d1:11:LEU:HG	1.66	0.40
33:e1:121:CYS:HB3	33:e1:130:VAL:HG11	2.03	0.40
33:e1:147:VAL:O	33:e1:148:TYR:HB2	2.20	0.40
83:sR:38:ARG:HG2	83:sR:67:ILE:HG23	2.02	0.40
84:sM:54:PRO:C	84:sM:59:ALA:HB2	2.45	0.40
36:5:32:U:O5'	36:5:32:U:H6	2.04	0.40
36:5:371:G:O6	92:5:4490:OHX:N5	2.54	0.40
36:5:509:U:O4	92:5:4503:OHX:N1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:731:U:H2'	36:5:732:C:H6	1.85	0.40
36:5:822:G:H2'	36:5:823:C:O4'	2.21	0.40
36:5:823:C:H2'	36:5:824:C:H6	1.85	0.40
36:5:2202:C:H5"	39:l2:226:SER:N	2.35	0.40
36:5:2242:A:H5'	39:l2:243:THR:HG23	2.02	0.40
36:5:2608:G:O2'	36:5:2609:A:H5'	2.20	0.40
36:5:3045:G:O3'	40:l3:275:ARG:NH1	2.53	0.40
36:5:3154:C:O2	36:5:3154:C:H2'	2.19	0.40
36:5:3170:A:C2	36:5:3281:U:C2	3.09	0.40
36:5:3224:G:C2	36:5:3225:C:C6	3.09	0.40
36:5:3288:G:C4	36:5:3289:G:C8	3.09	0.40
36:5:3302:U:C2	36:5:3313:U:C2	3.09	0.40
39:l2:133:TYR:CD2	39:l2:168:VAL:HG12	2.57	0.40
41:l4:112:LYS:HE3	41:l4:112:LYS:HB2	1.82	0.40
41:l4:157:GLU:HG2	41:l4:209:TYR:HB2	2.03	0.40
43:l6:30:LEU:HD22	43:l6:34:LEU:HD12	2.04	0.40
43:l6:47:PHE:O	43:l6:50:LYS:HB2	2.21	0.40
85:l8:24:ASN:O	85:l8:25:PRO:C	2.64	0.40
46:l9:95:ALA:O	76:q0:77:ILE:HG12	2.21	0.40
47:m0:206:LEU:HD12	47:m0:206:LEU:HA	1.96	0.40
48:m1:10:ARG:NH1	48:m1:133:ARG:HH21	2.19	0.40
53:m7:70:THR:HG21	53:m7:81:ALA:HB3	2.03	0.40
55:m9:44:LEU:HD22	55:m9:49:THR:OG1	2.21	0.40
66:o0:8:GLU:HB3	66:o0:13:LYS:HE2	2.02	0.40
68:o2:119:VAL:O	68:o2:122:PRO:HD3	2.21	0.40
73:o7:55:ARG:HG2	73:o7:56:ARG:N	2.36	0.40
78:q2:9:LYS:HE2	78:q2:22:GLN:OE1	2.21	0.40
88:p0:46:ARG:HD3	88:p0:46:ARG:HA	1.70	0.40
1:2:77:U:OP2	92:2:2211:OHX:N2	2.54	0.40
1:2:329:G:H2'	1:2:330:G:H8	1.84	0.40
1:2:793:A:H5"	1:2:794:U:C6	2.56	0.40
1:2:823:G:O2'	1:2:824:G:O5'	2.35	0.40
1:2:1002:G:N1	1:2:1761:U:OP1	2.41	0.40
1:2:1277:G:H5'	5:S3:140:GLY:HA2	2.02	0.40
1:2:1479:A:C2	1:2:1480:G:C8	3.10	0.40
1:2:1534:G:OP2	27:D5:74:SER:OG	2.36	0.40
1:2:1660:A:H2'	1:2:1661:U:H6	1.87	0.40
2:S0:61:ALA:HA	2:S0:181:VAL:HG12	2.03	0.40
5:S3:45:LYS:HE2	5:S3:45:LYS:HB2	1.92	0.40
6:S4:9:LEU:HB2	6:S4:30:ARG:HB2	2.02	0.40
8:S6:24:ILE:C	8:S6:26:VAL:H	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:67:LEU:HD11	9:S7:94:ALA:HB2	2.03	0.40
9:S7:140:VAL:HG22	9:S7:150:GLN:HG2	2.02	0.40
21:C9:135:ILE:HD12	21:C9:136:ALA:N	2.36	0.40
29:D7:64:CYS:HA	29:D7:72:LYS:O	2.22	0.40
36:1:415:G:H2'	36:1:416:A:H8	1.86	0.40
36:1:665:A:H1'	49:M3:14:PHE:CE1	2.57	0.40
36:1:677:A:C8	36:1:786:A:C6	3.09	0.40
36:1:1305:U:C2	40:L3:257:PRO:HG3	2.56	0.40
36:1:1686:U:O2	36:1:1688:U:H1'	2.22	0.40
36:1:2112:U:O2	92:1:4193:OHX:N1	2.54	0.40
36:1:2315:G:OP2	92:1:4236:OHX:N6	2.54	0.40
36:1:2503:G:HO2'	36:1:2504:U:H5	1.63	0.40
36:1:2567:C:C2'	36:1:2568:C:H5'	2.51	0.40
36:1:2898:G:OP2	36:1:2899:C:H5'	2.21	0.40
39:L2:29:LEU:HA	39:L2:76:PHE:HE1	1.87	0.40
39:L2:57:PRO:HB3	79:Q3:54:ILE:HD11	2.02	0.40
42:L5:34:LYS:HA	57:N1:27:LEU:HD21	2.04	0.40
46:L9:103:ILE:HG13	46:L9:136:PHE:CE2	2.56	0.40
47:M0:174:THR:HG23	47:M0:176:LEU:N	2.18	0.40
65:N9:23:LYS:CG	65:N9:24:PRO:HD3	2.52	0.40
68:O2:40:SER:O	68:O2:44:ARG:HG3	2.21	0.40
78:Q2:25:VAL:HG12	78:Q2:93:LEU:HD12	2.03	0.40
1:6:27:U:H2'	1:6:28:A:C8	2.55	0.40
1:6:99:C:C2	1:6:361:C:C5	3.10	0.40
1:6:215:A:C2	1:6:216:U:C2	3.10	0.40
1:6:565:C:H5"	1:6:566:C:C6	2.57	0.40
1:6:652:G:N2	1:6:682:C:O2	2.55	0.40
1:6:958:U:P	29:d7:20:LYS:HZ2	2.42	0.40
1:6:1082:C:H2'	1:6:1083:G:O4'	2.20	0.40
1:6:1449:U:O4	92:6:2169:OHX:N2	2.54	0.40
1:6:1496:U:H4'	1:6:1519:U:O2'	2.21	0.40
2:s0:126:PRO:CG	2:s0:151:SER:HB3	2.52	0.40
2:s0:184:LEU:O	2:s0:186:GLY:N	2.54	0.40
6:s4:11:ARG:O	6:s4:12:LEU:HB2	2.21	0.40
7:s5:56:ALA:O	7:s5:57:SER:OG	2.30	0.40
15:c3:27:LYS:O	15:c3:28:LEU:HG	2.21	0.40
16:c4:81:VAL:HG13	16:c4:115:ILE:HG12	2.03	0.40
19:c7:65:PRO:HB3	19:c7:74:GLN:OE1	2.21	0.40
21:c9:84:LYS:HG2	21:c9:85:SER:O	2.21	0.40
36:5:426:G:H2'	36:5:427:C:C6	2.56	0.40
36:5:600:G:N7	92:5:4380:OHX:N2	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:937:G:H5”	64:n8:29:PRO:HG3	2.02	0.40
36:5:1184:A:OP2	92:5:4353:OHX:N6	2.54	0.40
36:5:2854:U:H4’	47:m0:160:PRO:HD3	2.02	0.40
36:5:2871:G:C5’	36:5:2872:A:H5”	2.51	0.40
36:5:2874:G:C2’	36:5:2875:U:H5”	2.52	0.40
36:5:3040:A:H5”	59:n3:12:ARG:HB2	2.03	0.40
36:5:3048:A:C5’	40:l3:53:MET:HE3	2.50	0.40
36:5:3110:C:H2’	36:5:3111:U:C6	2.57	0.40
36:5:3292:A:O2’	36:5:3293:U:H5’	2.20	0.40
37:7:42:A:H2’	37:7:43:U:C6	2.56	0.40
38:8:29:U:O2’	38:8:30:C:H5’	2.22	0.40
40:l3:44:THR:HG23	40:l3:184:ASN:HB2	2.02	0.40
42:l5:51:LEU:HB2	42:l5:144:VAL:CG1	2.51	0.40
85:l8:134:TYR:CD1	85:l8:190:VAL:HG11	2.56	0.40
53:m7:67:ILE:HD12	53:m7:82:ARG:NH1	2.35	0.40
53:m7:126:ARG:H	53:m7:126:ARG:HG2	1.58	0.40
64:n8:70:LYS:N	64:n8:71:PRO:HD3	2.36	0.40
64:n8:74:ASN:OD1	64:n8:113:LEU:HB2	2.21	0.40
67:o1:55:LEU:HD13	67:o1:59:ILE:HD11	2.02	0.40
68:o2:123:LYS:HA	68:o2:126:LEU:HB2	2.04	0.40
69:o3:15:SER:OG	69:o3:16:TYR:N	2.55	0.40
71:o5:114:ARG:HA	71:o5:114:ARG:HD2	1.88	0.40
79:q3:56:THR:HB	79:q3:63:THR:OG1	2.21	0.40
1:2:154:G:O6	26:D4:128:LYS:NZ	2.42	0.40
1:2:514:G:O2’	1:2:515:A:H5’	2.21	0.40
1:2:579:A:N7	5:S3:178:ARG:HD2	2.36	0.40
1:2:1188:G:O2’	1:2:1430:U:OP1	2.30	0.40
1:2:1362:U:O2’	1:2:1363:U:O2	2.38	0.40
1:2:1368:G:C6	1:2:1369:U:C4	3.08	0.40
1:2:1402:G:H2’	1:2:1403:C:H6	1.82	0.40
2:S0:185:ARG:HA	23:D1:44:ARG:HA	2.03	0.40
4:S2:54:GLU:O	4:S2:58:LEU:HB2	2.21	0.40
5:S3:57:ASP:OD1	5:S3:57:ASP:N	2.54	0.40
5:S3:70:THR:CG2	5:S3:86:LEU:HB2	2.52	0.40
5:S3:162:GLN:O	5:S3:165:ASN:N	2.54	0.40
5:S3:215:GLU:OE2	5:S3:215:GLU:N	2.50	0.40
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.54	0.40
16:C4:114:ARG:HA	28:D6:62:TYR:CE1	2.56	0.40
18:C6:59:LYS:HE2	18:C6:59:LYS:HB2	1.89	0.40
21:C9:34:VAL:C	21:C9:36:ILE:H	2.29	0.40
24:D2:11:LEU:HD21	24:D2:37:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:89:TRP:O	24:D2:93:LEU:HD22	2.21	0.40
27:D5:42:LEU:HD12	27:D5:43:ASP:N	2.35	0.40
29:D7:48:SER:O	29:D7:71:ALA:N	2.45	0.40
32:E0:30:PRO:O	32:E0:35:TYR:HB2	2.21	0.40
34:SR:228:LYS:O	34:SR:229:LYS:HG3	2.21	0.40
36:1:16:A:H2'	36:1:17:G:O4'	2.21	0.40
36:1:20:A:N6	36:1:21:G:O6	2.54	0.40
36:1:85:A:O2'	92:1:4389:OHX:N6	2.54	0.40
36:1:174:C:H2'	36:1:175:C:H6	1.86	0.40
36:1:871:U:H2'	36:1:872:U:H6	1.84	0.40
36:1:1444:G:O5'	36:1:1444:G:H8	2.05	0.40
36:1:1750:A:H4'	36:1:1751:G:H5'	2.04	0.40
36:1:2101:C:OP1	55:M9:71:ARG:NH2	2.53	0.40
36:1:2297:U:C2	36:1:2299:A:C6	3.09	0.40
36:1:2376:G:C6	36:1:2377:G:O6	2.74	0.40
36:1:2415:C:C5'	39:L2:207:VAL:HG23	2.51	0.40
36:1:3333:G:C8	60:N4:51:TRP:CD1	3.09	0.40
37:3:97:A:H2'	37:3:98:C:H6	1.85	0.40
38:4:65:A:O3'	71:O5:10:ARG:NH2	2.49	0.40
38:4:141:C:OP1	51:M5:109:ARG:NH1	2.54	0.40
40:L3:77:THR:HG23	40:L3:327:CYS:HA	2.03	0.40
41:L4:229:ASN:OD1	41:L4:229:ASN:C	2.64	0.40
42:L5:64:ILE:HG22	42:L5:75:LEU:HB3	2.02	0.40
44:L7:89:ILE:HG22	44:L7:220:PHE:CE1	2.55	0.40
46:L9:162:GLN:HG3	46:L9:163:GLN:N	2.28	0.40
54:M8:170:ARG:HA	54:M8:174:ARG:HD2	2.03	0.40
56:N0:5:LYS:HD2	56:N0:7:TYR:OH	2.20	0.40
56:N0:42:TRP:O	56:N0:46:GLN:HG3	2.22	0.40
56:N0:123:ILE:H	56:N0:123:ILE:HG12	1.58	0.40
61:N5:67:ILE:HG12	61:N5:115:ARG:HH21	1.86	0.40
61:N5:105:VAL:HG12	61:N5:106:ASP:N	2.37	0.40
63:N7:17:ARG:HA	70:O4:74:ARG:HA	2.03	0.40
69:O3:14:LEU:HD11	69:O3:31:LYS:HB2	2.04	0.40
69:O3:15:SER:HB3	69:O3:16:TYR:O	2.22	0.40
71:O5:67:ARG:O	71:O5:71:LYS:N	2.55	0.40
1:6:221:A:O2'	1:6:222:A:H5'	2.21	0.40
1:6:639:U:OP2	9:s7:119:THR:HG23	2.20	0.40
1:6:678:A:N7	92:6:2274:OHX:N2	2.69	0.40
1:6:866:G:H5"	15:c3:2:GLY:O	2.21	0.40
1:6:1579:U:H2'	1:6:1580:C:C6	2.57	0.40
1:6:1655:A:N1	36:5:2291:A:O2'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1699:G:N2	1:6:1702:A:H5"	2.35	0.40
1:6:1711:C:H2'	1:6:1712:A:H5"	2.03	0.40
2:s0:148:ASP:OD1	2:s0:149:LEU:N	2.49	0.40
4:s2:82:ASN:HB3	4:s2:101:VAL:HB	2.03	0.40
4:s2:153:SER:OG	4:s2:171:PRO:HA	2.21	0.40
4:s2:177:GLY:C	4:s2:195:ASP:HA	2.46	0.40
5:s3:101:GLN:OE1	5:s3:122:VAL:HG13	2.21	0.40
10:s8:12:SER:HB3	10:s8:18:ARG:NH1	2.37	0.40
82:c5:57:MET:SD	82:c5:60:LEU:HD12	2.61	0.40
26:d4:20:ARG:NE	26:d4:22:GLN:HE21	2.17	0.40
26:d4:84:LYS:HD3	26:d4:85:PHE:HE2	1.86	0.40
83:sR:135:THR:HG23	83:sR:139:GLN:O	2.21	0.40
36:5:35:A:OP1	51:m5:86:ASN:ND2	2.51	0.40
36:5:260:C:H2'	36:5:261:U:H6	1.86	0.40
36:5:601:U:H2'	36:5:602:A:O4'	2.21	0.40
36:5:731:U:H2'	36:5:732:C:C6	2.57	0.40
36:5:856:G:C6	36:5:857:G:N1	2.90	0.40
36:5:1258:U:H4'	88:p0:42:ARG:HH12	1.85	0.40
36:5:1342:C:H2'	36:5:1343:A:O4'	2.22	0.40
36:5:1815:U:O2'	36:5:1816:A:OP2	2.32	0.40
36:5:1944:U:H2'	36:5:1945:A:H8	1.85	0.40
36:5:2245:C:O4'	39:l2:222:ALA:HA	2.21	0.40
36:5:2257:C:O5'	36:5:2257:C:H6	2.05	0.40
36:5:3255:U:O4	92:5:4558:OHX:N2	2.55	0.40
38:8:53:A:H5"	38:8:54:A:OP2	2.21	0.40
38:8:121:U:H2'	38:8:122:U:C6	2.55	0.40
41:l4:3:ARG:NH2	41:l4:259:ASP:OD2	2.53	0.40
44:l7:113:SER:HA	44:l7:205:PHE:O	2.20	0.40
44:l7:168:ILE:O	44:l7:172:ASN:ND2	2.55	0.40
47:m0:60:LEU:CD1	47:m0:129:VAL:HG21	2.51	0.40
50:m4:55:ARG:HD3	56:n0:70:THR:HB	2.03	0.40
55:m9:128:LYS:O	55:m9:128:LYS:HG2	2.21	0.40
61:n5:105:VAL:HA	61:n5:130:TYR:CE2	2.56	0.40
69:o3:8:TYR:CD2	69:o3:99:ARG:HG2	2.57	0.40
69:o3:103:TYR:HA	69:o3:104:PRO:C	2.46	0.40
72:o6:63:ASN:C	72:o6:65:GLY:H	2.26	0.40
77:q1:8:LYS:HD3	77:q1:12:ARG:NH2	2.36	0.40
77:q1:9:ARG:CG	77:q1:9:ARG:HH11	2.35	0.40
1:2:213:A:OP2	92:2:2166:OHX:N2	2.54	0.40
1:2:257:A:H1'	10:S8:73:SER:HB2	2.02	0.40
1:2:830:U:O2	1:2:830:U:H2'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1108:G:N1	25:D3:22:ASN:OD1	2.42	0.40
1:2:1696:G:H8	1:2:1696:G:OP2	2.04	0.40
2:S0:82:GLY:O	2:S0:86:VAL:HG22	2.21	0.40
2:S0:157:ASP:OD1	23:D1:60:ARG:NH2	2.54	0.40
4:S2:115:ILE:HD13	4:S2:208:GLU:HG2	2.03	0.40
4:S2:148:LEU:HD22	4:S2:148:LEU:HA	1.92	0.40
13:C1:3:THR:CG2	13:C1:82:ARG:HH21	2.32	0.40
14:C2:89:ILE:HG12	14:C2:90:LYS:N	2.34	0.40
17:C5:18:ARG:NH1	20:C8:90:ASN:O	2.55	0.40
18:C6:143:ARG:HE	18:C6:143:ARG:HB2	1.68	0.40
19:C7:16:LEU:HD12	19:C7:54:THR:HG21	2.03	0.40
21:C9:135:ILE:H	21:C9:135:ILE:HG13	1.60	0.40
22:D0:104:THR:HG21	22:D0:116:VAL:HG21	2.03	0.40
25:D3:88:PRO:O	25:D3:89:ASN:HB2	2.21	0.40
26:D4:15:ASN:OD1	26:D4:17:LEU:HD12	2.22	0.40
26:D4:15:ASN:ND2	26:D4:22:GLN:OE1	2.49	0.40
30:D8:18:ARG:HA	30:D8:25:VAL:O	2.22	0.40
36:1:290:G:H2'	36:1:291:C:C6	2.57	0.40
36:1:500:C:H2'	36:1:501:A:C8	2.56	0.40
36:1:634:C:H5'	69:O3:21:ARG:O	2.21	0.40
36:1:1072:G:C4	36:1:1087:G:C2	3.09	0.40
36:1:1093:A:N3	36:1:1096:U:N3	2.70	0.40
36:1:1415:U:H2'	36:1:1416:C:O4'	2.22	0.40
36:1:1448:U:C5	36:1:2355:G:C2	3.09	0.40
36:1:1602:A:H5"	55:M9:38:ARG:HG3	2.03	0.40
36:1:1663:C:OP2	92:1:4468:OHX:N6	2.55	0.40
36:1:1944:U:H2'	36:1:1945:A:C8	2.56	0.40
36:1:2185:G:H5'	39:L2:219:ILE:HD11	2.02	0.40
36:1:2249:G:C8	36:1:2272:G:C4	3.10	0.40
36:1:2767:U:OP1	78:Q2:33:ALA:O	2.40	0.40
36:1:3015:G:N2	36:1:3040:A:H1'	2.36	0.40
36:1:3082:C:H2'	36:1:3083:G:H8	1.85	0.40
36:1:3155:U:O4	92:1:4393:OHX:N6	2.53	0.40
36:1:3302:U:H3	36:1:3312:U:H3	1.70	0.40
38:4:46:G:N2	38:4:58:G:C4	2.90	0.40
40:L3:20:LYS:HG3	40:L3:21:ARG:O	2.22	0.40
41:L4:63:GLU:C	41:L4:75:PRO:HA	2.46	0.40
47:M0:24:ARG:HH11	47:M0:24:ARG:CB	2.27	0.40
47:M0:150:GLU:O	47:M0:150:GLU:HG3	2.21	0.40
49:M3:139:LEU:HD23	49:M3:139:LEU:HA	1.69	0.40
51:M5:37:HIS:NE2	51:M5:63:ARG:HD2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:19:PRO:HD3	54:M8:53:PHE:CE1	2.55	0.40
62:N6:3:LYS:HE2	62:N6:8:VAL:O	2.22	0.40
69:O3:39:GLN:H	69:O3:39:GLN:CD	2.29	0.40
69:O3:89:LEU:HA	69:O3:90:PRO:HD3	1.77	0.40
78:Q2:9:LYS:HE2	78:Q2:22:GLN:OE1	2.21	0.40
1:6:234:G:H3'	1:6:234:G:N3	2.36	0.40
1:6:536:C:N4	1:6:537:G:C6	2.90	0.40
1:6:813:U:H2'	1:6:813:U:O2	2.20	0.40
1:6:920:U:H2'	1:6:921:U:O4'	2.21	0.40
1:6:1605:G:H2'	1:6:1606:C:H6	1.86	0.40
2:s0:70:PRO:HB2	2:s0:94:GLY:HA3	2.04	0.40
3:s1:104:ASP:OD2	3:s1:214:LYS:HE2	2.22	0.40
4:s2:55:GLU:OE1	4:s2:59:HIS:HE1	2.05	0.40
4:s2:58:LEU:O	23:d1:15:ARG:NE	2.41	0.40
5:s3:132:LYS:HE3	5:s3:192:PRO:HD2	2.03	0.40
5:s3:161:GLY:C	5:s3:163:PRO:HD2	2.47	0.40
9:s7:91:ILE:HD12	9:s7:91:ILE:HA	1.88	0.40
10:s8:194:ARG:HD2	10:s8:195:ARG:HH12	1.87	0.40
11:s9:40:LYS:HB2	11:s9:40:LYS:HE3	1.73	0.40
11:s9:129:ILE:HG22	11:s9:142:ASN:HA	2.04	0.40
80:c0:31:LYS:H	80:c0:38:LYS:HA	1.86	0.40
13:c1:96:LYS:HD3	13:c1:97:TYR:CZ	2.56	0.40
18:c6:82:ARG:HH12	18:c6:114:ARG:CB	2.32	0.40
83:sR:52:GLN:HG2	83:sR:53:LYS:N	2.34	0.40
36:5:59:G:H4'	36:5:60:A:H4'	2.02	0.40
36:5:562:C:H5"	56:n0:71:LYS:HD2	2.03	0.40
36:5:799:G:OP2	64:n8:32:ARG:NH1	2.55	0.40
36:5:1137:C:H2'	36:5:1138:U:O4'	2.21	0.40
36:5:1299:U:H2'	36:5:1300:G:C8	2.56	0.40
36:5:1334:U:H1'	44:l7:208:SER:HB2	2.03	0.40
36:5:1438:U:H1'	41:l4:93:MET:O	2.21	0.40
36:5:1831:U:H2'	36:5:1832:C:C6	2.55	0.40
36:5:1915:A:H2'	36:5:1916:U:H6	1.82	0.40
36:5:1927:G:C8	79:q3:16:VAL:HG22	2.56	0.40
36:5:2437:G:H2'	36:5:2438:A:O4'	2.21	0.40
36:5:2748:A:N3	42:l5:36:LEU:HD23	2.36	0.40
37:7:7:G:O3'	42:l5:33:ARG:NH2	2.55	0.40
37:7:28:C:H5"	48:m1:137:ARG:CG	2.48	0.40
37:7:112:G:H2'	37:7:113:C:C6	2.56	0.40
38:8:78:G:H5"	38:8:79:A:OP2	2.21	0.40
38:8:83:C:H4'	38:8:85:G:C2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:103:THR:HG21	40:l3:147:GLU:OE2	2.22	0.40
40:l3:255:TRP:CD1	40:l3:255:TRP:C	3.00	0.40
41:l4:229:ASN:OD1	41:l4:230:VAL:N	2.55	0.40
42:l5:21:ARG:HH11	42:l5:21:ARG:HG2	1.87	0.40
85:l8:239:GLY:O	85:l8:240:ASN:C	2.64	0.40
48:m1:11:ASP:O	48:m1:12:LEU:HB3	2.21	0.40
49:m3:155:GLU:OE2	64:n8:86:LYS:HD3	2.21	0.40
49:m3:170:LEU:HD22	72:o6:9:ILE:CG2	2.52	0.40
52:m6:73:PHE:CD1	52:m6:78:ARG:HG2	2.56	0.40
54:m8:122:ILE:HG21	54:m8:122:ILE:HD13	1.79	0.40
58:n2:80:THR:HG21	58:n2:95:PHE:HD2	1.87	0.40
59:n3:13:ILE:HG13	59:n3:14:SER:N	2.36	0.40
61:n5:63:ILE:HD13	61:n5:63:ILE:C	2.46	0.40
62:n6:37:LYS:H	62:n6:37:LYS:HD3	1.86	0.40
63:n7:55:LYS:C	63:n7:57:HIS:H	2.29	0.40
64:n8:133:LEU:HD22	64:n8:133:LEU:O	2.21	0.40
78:q2:22:GLN:O	78:q2:75:VAL:HG22	2.22	0.40
90:a:74:C:H5'	90:a:74:C:C6	2.56	0.40
1:2:109:G:H1	1:2:305:C:N4	2.18	0.40
1:2:843:U:H2'	1:2:844:A:C8	2.56	0.40
1:2:1147:A:O2'	1:2:1635:A:H2'	2.21	0.40
1:2:1157:A:OP1	92:2:2184:OHX:N1	2.55	0.40
1:2:1477:G:H2'	1:2:1478:G:H8	1.85	0.40
1:2:1796:C:O2	28:D6:92:ARG:HB3	2.22	0.40
1:2:1796:C:H5	28:D6:6:ALA:H	1.67	0.40
8:S6:76:LEU:HD23	8:S6:76:LEU:HA	1.93	0.40
9:S7:182:VAL:HG12	9:S7:183:PHE:H	1.86	0.40
14:C2:66:VAL:HG11	14:C2:71:ILE:CD1	2.52	0.40
21:C9:118:PRO:HD2	21:C9:123:ARG:NH2	2.37	0.40
28:D6:23:CYS:HB3	28:D6:28:LYS:H	1.87	0.40
29:D7:62:ILE:HG13	29:D7:63:LEU:N	2.29	0.40
30:D8:13:ILE:HG13	30:D8:29:ARG:O	2.22	0.40
36:1:173:G:N2	36:1:246:U:H1'	2.36	0.40
36:1:679:U:H2'	36:1:680:G:H8	1.87	0.40
36:1:839:C:H4'	36:1:1724:U:H2'	2.04	0.40
36:1:1230:G:C6	36:1:1231:A:C6	3.10	0.40
36:1:1281:G:C2	36:1:1282:G:C8	3.10	0.40
36:1:1571:A:H2'	36:1:1572:U:O4'	2.22	0.40
36:1:1573:G:C2	36:1:1574:C:H1'	2.57	0.40
36:1:1952:G:OP2	36:1:1952:G:H8	2.04	0.40
37:3:11:A:N1	37:3:67:G:O2'	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:106:TRP:HB2	40:L3:133:TYR:CE2	2.56	0.40
40:L3:169:THR:HG23	40:L3:170:PRO:HD2	2.03	0.40
44:L7:113:SER:HA	44:L7:205:PHE:O	2.22	0.40
50:M4:116:GLU:O	50:M4:120:VAL:HG23	2.22	0.40
56:N0:7:TYR:CE1	56:N0:34:GLU:HG2	2.56	0.40
56:N0:8:GLN:HB3	56:N0:64:ILE:HD11	2.03	0.40
58:N2:33:TYR:O	58:N2:36:TYR:N	2.54	0.40
58:N2:49:ASN:C	58:N2:51:GLY:H	2.29	0.40
59:N3:18:PRO:HA	59:N3:50:PRO:O	2.22	0.40
59:N3:40:LYS:HA	59:N3:40:LYS:HD2	1.94	0.40
63:N7:9:LYS:HD3	63:N7:9:LYS:HA	1.81	0.40
68:O2:19:ARG:NH1	68:O2:28:VAL:HG13	2.20	0.40
69:O3:90:PRO:C	69:O3:92:LYS:N	2.77	0.40
71:O5:86:ARG:HH11	71:O5:86:ARG:HD3	1.74	0.40
73:O7:28:HIS:CG	73:O7:31:LYS:HB2	2.57	0.40
1:6:40:A:O2'	92:6:2204:OHX:N1	2.55	0.40
1:6:74:U:C2	1:6:76:A:H5"	2.56	0.40
1:6:1064:G:H2'	1:6:1065:A:C8	2.56	0.40
1:6:1097:U:O3'	4:s2:159:THR:HG21	2.22	0.40
1:6:1163:A:N6	1:6:1164:G:C6	2.90	0.40
1:6:1255:G:O6	81:c2:46:ARG:HD2	2.22	0.40
1:6:1263:G:H2'	1:6:1264:G:O4'	2.22	0.40
1:6:1268:G:C2	1:6:1270:G:C8	3.10	0.40
1:6:1281:G:C6	1:6:1282:U:C4	3.10	0.40
1:6:1533:C:OP2	27:d5:77:ARG:NH1	2.51	0.40
4:s2:102:VAL:O	4:s2:114:GLY:N	2.38	0.40
4:s2:140:ARG:HH21	4:s2:226:THR:HG21	1.87	0.40
5:s3:4:LEU:HD22	5:s3:4:LEU:HA	1.83	0.40
7:s5:28:PRO:O	7:s5:29:ILE:HB	2.21	0.40
7:s5:90:ILE:HD11	7:s5:130:ILE:HG13	2.04	0.40
9:s7:49:ILE:HG13	9:s7:57:ALA:HB3	2.03	0.40
9:s7:157:LYS:HB2	9:s7:157:LYS:HE3	1.88	0.40
10:s8:36:THR:O	10:s8:36:THR:OG1	2.40	0.40
10:s8:169:ILE:HD12	10:s8:169:ILE:HG23	1.82	0.40
81:c2:131:ASP:OD1	81:c2:133:LEU:HD12	2.22	0.40
81:c2:138:GLU:OE2	81:c2:142:GLN:HB3	2.21	0.40
15:c3:21:ASN:OD1	15:c3:21:ASN:N	2.55	0.40
18:c6:102:LYS:HB3	18:c6:102:LYS:HE2	1.88	0.40
25:d3:69:ARG:NH1	25:d3:116:ASP:OD1	2.54	0.40
36:5:83:U:H2'	36:5:84:U:O4'	2.21	0.40
36:5:136:G:H5'	71:o5:95:PHE:CD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:324:A:H2'	36:5:325:A:C8	2.57	0.40
36:5:346:C:C2	36:5:348:A:N7	2.89	0.40
36:5:665:A:H1'	49:m3:14:PHE:CZ	2.56	0.40
36:5:887:G:H2'	36:5:888:A:C8	2.57	0.40
36:5:1081:U:H4'	36:5:1082:U:O5'	2.21	0.40
36:5:1085:A:H5'	36:5:1086:C:OP2	2.22	0.40
36:5:2151:C:O2'	36:5:2243:A:N1	2.51	0.40
36:5:2241:U:O2'	39:l2:243:THR:HG22	2.21	0.40
36:5:3194:C:H2'	36:5:3195:U:H3'	2.04	0.40
36:5:3218:A:OP1	36:5:3218:A:H3'	2.22	0.40
36:5:3263:G:N3	36:5:3264:G:C8	2.90	0.40
37:7:22:A:N1	42:l5:269:SER:O	2.55	0.40
37:7:43:U:C4	37:7:44:C:C4	3.10	0.40
38:8:26:U:H2'	38:8:27:U:C6	2.57	0.40
40:l3:41:VAL:HG22	40:l3:194:TRP:CD1	2.56	0.40
41:l4:63:GLU:O	41:l4:75:PRO:HA	2.22	0.40
41:l4:166:VAL:O	41:l4:170:LYS:HB2	2.21	0.40
41:l4:261:VAL:HG22	41:l4:262:TRP:CD1	2.55	0.40
85:l8:78:PHE:C	85:l8:80:TYR:H	2.30	0.40
85:l8:146:LYS:HA	85:l8:146:LYS:HD2	1.89	0.40
55:m9:6:THR:HG22	55:m9:10:LEU:HD22	2.02	0.40
55:m9:115:ILE:HG22	55:m9:119:LEU:HD23	2.04	0.40
55:m9:138:LEU:HD22	55:m9:138:LEU:O	2.22	0.40
59:n3:128:ARG:NH2	59:n3:128:ARG:HB3	2.37	0.40
61:n5:105:VAL:HG11	61:n5:126:LEU:HD13	2.04	0.40
67:o1:88:PRO:C	67:o1:89:LEU:HD12	2.45	0.40
70:o4:74:ARG:HG2	70:o4:75:ALA:H	1.87	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1353:U:O2'	36:5:3165:A:OP1[2_546]	2.11	0.09
48:m1:78:GLU:OE2	92:l9:204:OHX:N5[2_647]	2.17	0.03

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	S0	204/206 (99%)	155 (76%)	34 (17%)	15 (7%)	1 5
2	s0	204/206 (99%)	163 (80%)	22 (11%)	19 (9%)	0 3
3	S1	212/216 (98%)	151 (71%)	35 (16%)	26 (12%)	0 1
3	s1	214/216 (99%)	173 (81%)	26 (12%)	15 (7%)	1 6
4	S2	215/217 (99%)	189 (88%)	19 (9%)	7 (3%)	3 18
4	s2	215/217 (99%)	179 (83%)	25 (12%)	11 (5%)	1 10
5	S3	221/223 (99%)	186 (84%)	25 (11%)	10 (4%)	2 12
5	s3	221/223 (99%)	177 (80%)	28 (13%)	16 (7%)	1 6
6	S4	258/260 (99%)	218 (84%)	30 (12%)	10 (4%)	2 14
6	s4	258/260 (99%)	218 (84%)	26 (10%)	14 (5%)	1 9
7	S5	204/206 (99%)	166 (81%)	22 (11%)	16 (8%)	1 4
7	s5	204/206 (99%)	160 (78%)	30 (15%)	14 (7%)	1 6
8	S6	224/226 (99%)	198 (88%)	16 (7%)	10 (4%)	2 12
8	s6	216/226 (96%)	190 (88%)	12 (6%)	14 (6%)	1 7
9	S7	182/186 (98%)	144 (79%)	19 (10%)	19 (10%)	0 2
9	s7	184/186 (99%)	150 (82%)	22 (12%)	12 (6%)	1 7
10	S8	184/199 (92%)	163 (89%)	10 (5%)	11 (6%)	1 8
10	s8	184/199 (92%)	159 (86%)	17 (9%)	8 (4%)	2 13
11	S9	183/185 (99%)	158 (86%)	17 (9%)	8 (4%)	2 12
11	s9	183/185 (99%)	157 (86%)	18 (10%)	8 (4%)	2 12
12	C0	82/96 (85%)	69 (84%)	9 (11%)	4 (5%)	1 11
13	C1	145/155 (94%)	119 (82%)	19 (13%)	7 (5%)	2 11
13	c1	144/155 (93%)	120 (83%)	18 (12%)	6 (4%)	2 13
14	C2	122/124 (98%)	74 (61%)	26 (21%)	22 (18%)	0 0
15	C3	148/150 (99%)	127 (86%)	15 (10%)	6 (4%)	2 13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
15	c3	148/150 (99%)	121 (82%)	19 (13%)	8 (5%)	1 9
16	C4	125/128 (98%)	97 (78%)	17 (14%)	11 (9%)	0 3
16	c4	126/128 (98%)	103 (82%)	17 (14%)	6 (5%)	2 11
17	C5	122/131 (93%)	96 (79%)	16 (13%)	10 (8%)	0 4
18	C6	139/142 (98%)	116 (84%)	15 (11%)	8 (6%)	1 8
18	c6	140/142 (99%)	124 (89%)	10 (7%)	6 (4%)	2 13
19	C7	116/125 (93%)	94 (81%)	14 (12%)	8 (7%)	1 6
19	c7	113/125 (90%)	92 (81%)	12 (11%)	9 (8%)	1 4
20	C8	143/145 (99%)	113 (79%)	22 (15%)	8 (6%)	1 8
20	c8	143/145 (99%)	121 (85%)	16 (11%)	6 (4%)	2 13
21	C9	141/143 (99%)	115 (82%)	22 (16%)	4 (3%)	4 20
21	c9	141/143 (99%)	124 (88%)	14 (10%)	3 (2%)	5 25
22	D0	105/110 (96%)	88 (84%)	13 (12%)	4 (4%)	2 15
22	d0	108/110 (98%)	86 (80%)	12 (11%)	10 (9%)	0 3
23	D1	85/87 (98%)	64 (75%)	11 (13%)	10 (12%)	0 1
23	d1	85/87 (98%)	66 (78%)	14 (16%)	5 (6%)	1 8
24	D2	127/129 (98%)	112 (88%)	12 (9%)	3 (2%)	4 23
24	d2	127/129 (98%)	114 (90%)	12 (9%)	1 (1%)	16 44
25	D3	142/144 (99%)	118 (83%)	14 (10%)	10 (7%)	1 6
25	d3	142/144 (99%)	128 (90%)	11 (8%)	3 (2%)	5 25
26	D4	132/134 (98%)	111 (84%)	13 (10%)	8 (6%)	1 8
26	d4	132/134 (98%)	106 (80%)	17 (13%)	9 (7%)	1 6
27	D5	68/70 (97%)	47 (69%)	12 (18%)	9 (13%)	0 1
27	d5	67/70 (96%)	53 (79%)	10 (15%)	4 (6%)	1 8
28	D6	95/97 (98%)	60 (63%)	22 (23%)	13 (14%)	0 1
28	d6	95/97 (98%)	74 (78%)	13 (14%)	8 (8%)	0 4
29	D7	79/81 (98%)	65 (82%)	11 (14%)	3 (4%)	2 15
29	d7	79/81 (98%)	61 (77%)	11 (14%)	7 (9%)	0 3
30	D8	61/63 (97%)	49 (80%)	9 (15%)	3 (5%)	1 11
30	d8	61/63 (97%)	46 (75%)	12 (20%)	3 (5%)	1 11
31	D9	51/53 (96%)	40 (78%)	8 (16%)	3 (6%)	1 8

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
31	d9	51/53 (96%)	46 (90%)	2 (4%)	3 (6%)	1 8
32	E0	58/62 (94%)	46 (79%)	9 (16%)	3 (5%)	1 10
32	e0	60/62 (97%)	47 (78%)	7 (12%)	6 (10%)	0 3
33	E1	69/76 (91%)	38 (55%)	18 (26%)	13 (19%)	0 0
33	e1	74/76 (97%)	33 (45%)	23 (31%)	18 (24%)	0 0
34	SR	316/318 (99%)	275 (87%)	32 (10%)	9 (3%)	4 20
35	SM	131/159 (82%)	100 (76%)	17 (13%)	14 (11%)	0 2
39	L2	250/252 (99%)	229 (92%)	13 (5%)	8 (3%)	3 18
39	l2	250/252 (99%)	215 (86%)	26 (10%)	9 (4%)	2 16
40	L3	384/386 (100%)	334 (87%)	35 (9%)	15 (4%)	2 14
40	l3	384/386 (100%)	349 (91%)	25 (6%)	10 (3%)	4 21
41	L4	359/361 (99%)	301 (84%)	37 (10%)	21 (6%)	1 8
41	l4	359/361 (99%)	300 (84%)	41 (11%)	18 (5%)	1 10
42	L5	294/296 (99%)	239 (81%)	37 (13%)	18 (6%)	1 8
42	l5	292/296 (99%)	257 (88%)	28 (10%)	7 (2%)	4 23
43	L6	152/175 (87%)	132 (87%)	17 (11%)	3 (2%)	6 26
43	l6	153/175 (87%)	135 (88%)	14 (9%)	4 (3%)	4 21
44	L7	220/223 (99%)	199 (90%)	15 (7%)	6 (3%)	4 21
44	l7	221/223 (99%)	201 (91%)	14 (6%)	6 (3%)	4 21
45	L8	231/233 (99%)	194 (84%)	26 (11%)	11 (5%)	2 11
46	L9	189/191 (99%)	167 (88%)	17 (9%)	5 (3%)	4 21
46	l9	189/191 (99%)	175 (93%)	8 (4%)	6 (3%)	3 18
47	M0	207/220 (94%)	180 (87%)	18 (9%)	9 (4%)	2 13
47	m0	209/220 (95%)	168 (80%)	31 (15%)	10 (5%)	2 11
48	M1	167/169 (99%)	127 (76%)	26 (16%)	14 (8%)	0 4
48	m1	167/169 (99%)	140 (84%)	17 (10%)	10 (6%)	1 8
49	M3	191/194 (98%)	159 (83%)	21 (11%)	11 (6%)	1 8
49	m3	192/194 (99%)	156 (81%)	24 (12%)	12 (6%)	1 7
50	M4	134/137 (98%)	118 (88%)	10 (8%)	6 (4%)	2 12
50	m4	135/137 (98%)	123 (91%)	9 (7%)	3 (2%)	5 25
51	M5	201/203 (99%)	182 (90%)	12 (6%)	7 (4%)	3 17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
51	m5	201/203 (99%)	179 (89%)	16 (8%)	6 (3%)	3 19
52	M6	195/197 (99%)	180 (92%)	13 (7%)	2 (1%)	12 40
52	m6	195/197 (99%)	181 (93%)	12 (6%)	2 (1%)	12 40
53	M7	181/183 (99%)	152 (84%)	20 (11%)	9 (5%)	1 10
53	m7	153/183 (84%)	136 (89%)	12 (8%)	5 (3%)	3 18
54	M8	183/185 (99%)	161 (88%)	18 (10%)	4 (2%)	5 25
54	m8	183/185 (99%)	156 (85%)	21 (12%)	6 (3%)	3 18
55	M9	186/188 (99%)	173 (93%)	11 (6%)	2 (1%)	11 38
55	m9	186/188 (99%)	180 (97%)	4 (2%)	2 (1%)	11 38
56	N0	170/172 (99%)	153 (90%)	13 (8%)	4 (2%)	4 23
56	n0	170/172 (99%)	159 (94%)	8 (5%)	3 (2%)	6 29
57	N1	157/159 (99%)	142 (90%)	12 (8%)	3 (2%)	6 28
57	n1	157/159 (99%)	143 (91%)	12 (8%)	2 (1%)	9 34
58	N2	98/100 (98%)	80 (82%)	16 (16%)	2 (2%)	6 26
58	n2	96/100 (96%)	85 (88%)	10 (10%)	1 (1%)	12 40
59	N3	134/136 (98%)	122 (91%)	8 (6%)	4 (3%)	3 19
59	n3	134/136 (98%)	123 (92%)	9 (7%)	2 (2%)	8 32
60	N4	96/98 (98%)	76 (79%)	14 (15%)	6 (6%)	1 7
61	N5	119/121 (98%)	105 (88%)	12 (10%)	2 (2%)	7 29
61	n5	118/121 (98%)	99 (84%)	10 (8%)	9 (8%)	1 5
62	N6	124/126 (98%)	111 (90%)	10 (8%)	3 (2%)	4 23
62	n6	124/126 (98%)	112 (90%)	7 (6%)	5 (4%)	2 14
63	N7	133/135 (98%)	113 (85%)	13 (10%)	7 (5%)	1 9
63	n7	133/135 (98%)	106 (80%)	15 (11%)	12 (9%)	0 3
64	N8	146/148 (99%)	122 (84%)	16 (11%)	8 (6%)	1 9
64	n8	146/148 (99%)	121 (83%)	20 (14%)	5 (3%)	3 17
65	N9	56/58 (97%)	48 (86%)	5 (9%)	3 (5%)	1 9
65	n9	56/58 (97%)	40 (71%)	10 (18%)	6 (11%)	0 2
66	O0	95/100 (95%)	89 (94%)	5 (5%)	1 (1%)	11 38
66	o0	98/100 (98%)	88 (90%)	6 (6%)	4 (4%)	2 13
67	O1	107/109 (98%)	98 (92%)	5 (5%)	4 (4%)	2 15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
67	o1	107/109 (98%)	94 (88%)	9 (8%)	4 (4%)	2 15
68	O2	125/127 (98%)	111 (89%)	11 (9%)	3 (2%)	4 23
68	o2	125/127 (98%)	108 (86%)	12 (10%)	5 (4%)	2 14
69	O3	104/106 (98%)	94 (90%)	8 (8%)	2 (2%)	6 28
69	o3	104/106 (98%)	92 (88%)	9 (9%)	3 (3%)	3 20
70	O4	110/112 (98%)	97 (88%)	11 (10%)	2 (2%)	6 29
70	o4	110/112 (98%)	96 (87%)	11 (10%)	3 (3%)	4 21
71	O5	117/119 (98%)	104 (89%)	10 (8%)	3 (3%)	4 21
71	o5	117/119 (98%)	102 (87%)	11 (9%)	4 (3%)	3 17
72	O6	97/99 (98%)	81 (84%)	9 (9%)	7 (7%)	1 6
72	o6	97/99 (98%)	83 (86%)	7 (7%)	7 (7%)	1 6
73	O7	85/87 (98%)	72 (85%)	13 (15%)	0	100 100
73	o7	85/87 (98%)	76 (89%)	5 (6%)	4 (5%)	2 11
74	O8	75/77 (97%)	65 (87%)	7 (9%)	3 (4%)	2 14
74	o8	75/77 (97%)	62 (83%)	12 (16%)	1 (1%)	9 34
75	O9	48/50 (96%)	39 (81%)	8 (17%)	1 (2%)	5 25
75	o9	48/50 (96%)	45 (94%)	2 (4%)	1 (2%)	5 25
76	Q0	50/52 (96%)	45 (90%)	3 (6%)	2 (4%)	2 14
76	q0	50/52 (96%)	45 (90%)	4 (8%)	1 (2%)	6 26
77	Q1	23/25 (92%)	22 (96%)	1 (4%)	0	100 100
77	q1	23/25 (92%)	21 (91%)	2 (9%)	0	100 100
78	Q2	103/105 (98%)	85 (82%)	12 (12%)	6 (6%)	1 8
78	q2	103/105 (98%)	94 (91%)	5 (5%)	4 (4%)	2 14
79	Q3	89/91 (98%)	79 (89%)	7 (8%)	3 (3%)	3 17
79	q3	89/91 (98%)	79 (89%)	9 (10%)	1 (1%)	11 38
80	c0	78/96 (81%)	61 (78%)	10 (13%)	7 (9%)	0 3
81	c2	108/124 (87%)	67 (62%)	26 (24%)	15 (14%)	0 1
82	c5	133/142 (94%)	96 (72%)	19 (14%)	18 (14%)	0 1
83	sR	316/318 (99%)	268 (85%)	39 (12%)	9 (3%)	4 20
84	sM	61/104 (59%)	43 (70%)	10 (16%)	8 (13%)	0 1
85	l8	224/231 (97%)	184 (82%)	25 (11%)	15 (7%)	1 6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
87	n4	133/135 (98%)	111 (84%)	12 (9%)	10 (8%)	1 5
88	p0	117/219 (53%)	101 (86%)	12 (10%)	4 (3%)	3 17
All	All	22197/22912 (97%)	18787 (85%)	2314 (10%)	1096 (5%)	1 11

All (1096) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	5	ALA
2	S0	95	ALA
2	S0	158	VAL
2	S0	191	ARG
2	S0	203	PHE
3	S1	49	ASN
3	S1	113	MET
3	S1	148	ASN
3	S1	177	GLN
3	S1	179	SER
3	S1	206	PRO
4	S2	107	SER
4	S2	148	LEU
5	S3	62	ASN
5	S3	65	ARG
5	S3	93	ASP
5	S3	195	SER
5	S3	211	PRO
5	S3	220	PRO
6	S4	104	ASP
7	S5	26	ALA
7	S5	51	VAL
7	S5	101	GLY
7	S5	153	GLY
8	S6	25	ARG
8	S6	122	GLU
8	S6	154	ARG
8	S6	173	PRO
8	S6	174	LYS
9	S7	31	SER
9	S7	32	PRO
9	S7	64	VAL
9	S7	111	LYS
9	S7	112	ARG

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Mol	Chain	Res	Type
9	S7	131	PHE
9	S7	133	THR
9	S7	134	GLU
10	S8	147	ALA
10	S8	149	SER
11	S9	93	LEU
11	S9	134	ILE
12	C0	60	SER
12	C0	81	ASN
14	C2	89	ILE
14	C2	93	ASP
14	C2	127	GLY
15	C3	28	LEU
15	C3	138	ASN
16	C4	39	ILE
16	C4	124	ASP
16	C4	125	SER
16	C4	126	THR
17	C5	54	ALA
17	C5	125	PRO
17	C5	126	VAL
18	C6	40	GLU
18	C6	41	PRO
18	C6	114	ARG
18	C6	138	PHE
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
19	C7	124	VAL
20	C8	14	ILE
20	C8	25	ASN
20	C8	28	ILE
20	C8	60	GLU
20	C8	91	ASP
20	C8	92	ILE
21	C9	31	PRO
21	C9	53	TRP
23	D1	7	GLN
25	D3	114	LYS
25	D3	138	GLU
26	D4	36	SER
27	D5	39	ALA

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Mol	Chain	Res	Type
27	D5	44	GLN
27	D5	54	VAL
27	D5	71	ILE
27	D5	97	LYS
28	D6	36	ILE
28	D6	45	VAL
28	D6	82	ARG
28	D6	84	VAL
28	D6	85	ARG
29	D7	62	ILE
32	E0	47	VAL
33	E1	84	VAL
33	E1	102	VAL
33	E1	106	TYR
34	SR	318	ALA
35	SM	47	ALA
35	SM	52	PRO
35	SM	140	ASP
39	L2	47	GLN
40	L3	4	ARG
40	L3	5	LYS
40	L3	140	ASP
40	L3	142	ALA
40	L3	187	SER
40	L3	347	SER
40	L3	385	LYS
41	L4	130	ALA
41	L4	293	SER
41	L4	311	HIS
41	L4	317	PRO
42	L5	20	PHE
42	L5	234	ASP
42	L5	295	GLY
43	L6	6	ALA
43	L6	98	VAL
44	L7	26	VAL
44	L7	160	ARG
44	L7	164	SER
45	L8	25	PRO
45	L8	31	PRO
46	L9	50	ASN
47	M0	218	ALA

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Mol	Chain	Res	Type
48	M1	8	PRO
48	M1	11	ASP
48	M1	94	ARG
48	M1	115	LYS
48	M1	140	ARG
48	M1	165	GLN
49	M3	47	ALA
49	M3	129	ASN
49	M3	131	LYS
49	M3	136	GLU
50	M4	8	LYS
50	M4	9	ALA
50	M4	29	ALA
50	M4	36	VAL
51	M5	74	PRO
51	M5	144	ARG
52	M6	111	PRO
53	M7	67	ILE
53	M7	75	GLU
53	M7	157	VAL
60	N4	81	PRO
60	N4	86	SER
61	N5	44	PRO
63	N7	17	ARG
63	N7	30	ASP
63	N7	125	GLY
64	N8	57	GLY
64	N8	66	ALA
67	O1	6	ASP
67	O1	83	GLU
67	O1	84	ASP
71	O5	119	LYS
72	O6	13	LYS
72	O6	33	ALA
78	Q2	17	CYS
78	Q2	30	ALA
79	Q3	58	SER
2	s0	4	PRO
2	s0	95	ALA
2	s0	158	VAL
2	s0	164	ASN
2	s0	189	VAL

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Mol	Chain	Res	Type
2	s0	206	ASP
3	s1	106	THR
3	s1	154	SER
3	s1	206	PRO
3	s1	223	PHE
4	s2	92	ALA
4	s2	162	CYS
5	s3	61	GLU
5	s3	115	ILE
5	s3	211	PRO
5	s3	216	PRO
5	s3	217	ILE
5	s3	219	ALA
5	s3	220	PRO
6	s4	95	THR
6	s4	163	ASP
6	s4	164	LEU
6	s4	196	VAL
7	s5	28	PRO
7	s5	39	GLU
7	s5	184	PHE
7	s5	204	GLY
8	s6	70	PRO
8	s6	154	ARG
8	s6	173	PRO
8	s6	174	LYS
9	s7	10	SER
9	s7	64	VAL
9	s7	67	LEU
9	s7	74	GLN
9	s7	131	PHE
11	s9	150	LEU
80	c0	32	HIS
13	c1	133	LYS
81	c2	89	ILE
16	c4	126	THR
82	c5	11	VAL
82	c5	17	TYR
82	c5	52	LYS
82	c5	68	PRO
82	c5	125	PRO
82	c5	126	VAL

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Mol	Chain	Res	Type
82	c5	127	ARG
18	c6	42	GLU
18	c6	116	LEU
19	c7	63	LYS
19	c7	88	VAL
19	c7	99	VAL
19	c7	104	ASN
20	c8	91	ASP
20	c8	92	ILE
21	c9	29	GLU
21	c9	33	TYR
21	c9	34	VAL
22	d0	17	GLN
22	d0	49	ASN
22	d0	97	VAL
26	d4	30	PRO
26	d4	33	ALA
26	d4	52	LYS
27	d5	85	LYS
27	d5	104	ALA
28	d6	47	ALA
29	d7	60	SER
30	d8	61	ARG
31	d9	6	VAL
32	e0	60	PRO
33	e1	79	LYS
33	e1	83	LYS
33	e1	87	THR
33	e1	92	LYS
33	e1	98	VAL
33	e1	106	TYR
83	sR	160	GLU
83	sR	163	ASP
83	sR	165	ASP
83	sR	318	ALA
84	sM	42	ALA
84	sM	50	ASN
39	l2	238	ILE
40	l3	22	ALA
40	l3	129	ALA
41	l4	301	PRO
41	l4	329	PRO

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Mol	Chain	Res	Type
42	l5	178	ASN
44	l7	159	GLN
85	l8	25	PRO
85	l8	34	PHE
85	l8	121	SER
85	l8	122	LYS
47	m0	82	ARG
47	m0	220	GLN
48	m1	8	PRO
48	m1	10	ARG
48	m1	94	ARG
48	m1	108	GLU
49	m3	47	ALA
49	m3	150	PRO
51	m5	76	PRO
52	m6	110	PRO
54	m8	99	THR
57	n1	136	ARG
87	n4	26	SER
87	n4	63	ILE
87	n4	71	ARG
87	n4	76	VAL
61	n5	24	LEU
61	n5	44	PRO
61	n5	45	LYS
61	n5	55	ASN
62	n6	83	ASP
62	n6	84	LYS
62	n6	125	LYS
62	n6	126	LEU
63	n7	7	ALA
63	n7	125	GLY
63	n7	129	TRP
64	n8	76	ASP
65	n9	21	ILE
65	n9	23	LYS
65	n9	39	PHE
67	o1	45	GLY
68	o2	6	HIS
69	o3	88	ASN
72	o6	33	ALA
72	o6	64	SER

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Mol	Chain	Res	Type
72	o6	98	ARG
78	q2	17	CYS
88	p0	93	LEU
2	S0	4	PRO
2	S0	39	ASN
2	S0	49	ASN
2	S0	94	GLY
3	S1	21	VAL
3	S1	26	ARG
3	S1	35	PRO
3	S1	58	SER
3	S1	60	ALA
3	S1	62	LYS
3	S1	63	GLY
3	S1	158	SER
3	S1	182	ALA
3	S1	221	PRO
4	S2	106	ASP
5	S3	59	LEU
5	S3	216	PRO
6	S4	12	LEU
6	S4	195	ILE
7	S5	43	PHE
7	S5	63	GLN
7	S5	127	GLN
7	S5	150	GLY
8	S6	152	ASP
9	S7	29	ASN
9	S7	155	ASP
9	S7	186	PRO
10	S8	40	ALA
10	S8	104	ILE
10	S8	199	LYS
11	S9	98	ALA
11	S9	121	SER
11	S9	167	ALA
13	C1	30	ARG
13	C1	55	ASP
14	C2	25	GLU
14	C2	91	VAL
15	C3	22	ALA
15	C3	68	GLY

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Mol	Chain	Res	Type
16	C4	50	ALA
16	C4	51	ASP
16	C4	114	ARG
17	C5	11	VAL
17	C5	48	GLY
17	C5	101	ALA
18	C6	59	LYS
19	C7	23	LYS
19	C7	87	GLU
19	C7	115	LEU
20	C8	61	LEU
20	C8	142	GLY
21	C9	28	LEU
22	D0	17	GLN
23	D1	2	GLU
23	D1	4	ASP
23	D1	15	ARG
25	D3	70	LYS
25	D3	112	LYS
26	D4	5	VAL
27	D5	43	ASP
28	D6	11	ASN
28	D6	65	PRO
28	D6	86	VAL
29	D7	63	LEU
30	D8	36	THR
31	D9	20	GLN
32	E0	51	ASN
33	E1	83	LYS
33	E1	86	THR
33	E1	98	VAL
33	E1	144	CYS
33	E1	145	HIS
34	SR	161	ALA
35	SM	86	ASN
35	SM	87	THR
35	SM	111	GLY
39	L2	13	GLY
40	L3	3	HIS
40	L3	289	ASP
40	L3	351	LEU
41	L4	318	LEU

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Mol	Chain	Res	Type
41	L4	338	LYS
42	L5	6	ASP
42	L5	125	VAL
42	L5	137	ASP
42	L5	153	THR
42	L5	233	ALA
42	L5	253	PHE
42	L5	258	LYS
42	L5	276	LYS
44	L7	25	GLN
45	L8	36	ILE
45	L8	39	ALA
45	L8	75	ILE
47	M0	117	GLY
47	M0	145	LYS
47	M0	194	GLY
47	M0	220	GLN
48	M1	12	LEU
48	M1	74	PRO
48	M1	114	ILE
48	M1	152	HIS
49	M3	13	HIS
49	M3	141	ALA
49	M3	193	ALA
50	M4	10	SER
54	M8	98	LYS
55	M9	3	ASN
55	M9	53	LYS
56	N0	166	LYS
57	N1	123	GLY
57	N1	124	VAL
58	N2	51	GLY
59	N3	82	ALA
59	N3	134	GLY
60	N4	64	THR
61	N5	45	LYS
62	N6	84	LYS
62	N6	92	GLY
63	N7	35	SER
63	N7	102	GLU
64	N8	76	ASP
64	N8	96	LYS

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Mol	Chain	Res	Type
68	O2	27	ARG
71	O5	97	ALA
74	O8	18	ALA
74	O8	33	LYS
76	Q0	78	ILE
78	Q2	60	LYS
78	Q2	94	GLY
78	Q2	100	LYS
2	s0	8	ASP
2	s0	44	GLY
2	s0	66	ALA
2	s0	68	PRO
2	s0	186	GLY
3	s1	81	PHE
3	s1	82	ARG
3	s1	93	GLY
3	s1	218	LEU
5	s3	179	GLN
6	s4	12	LEU
6	s4	104	ASP
6	s4	195	ILE
6	s4	214	LEU
7	s5	36	ALA
7	s5	101	GLY
8	s6	138	ALA
8	s6	175	ILE
9	s7	66	SER
9	s7	133	THR
9	s7	155	ASP
10	s8	36	THR
10	s8	122	GLY
10	s8	199	LYS
11	s9	118	LEU
80	c0	23	ALA
80	c0	35	ILE
13	c1	7	VAL
81	c2	58	LEU
81	c2	66	VAL
81	c2	87	PRO
81	c2	101	ALA
81	c2	119	SER
81	c2	131	ASP

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Mol	Chain	Res	Type
15	c3	19	SER
15	c3	66	ILE
15	c3	139	TRP
16	c4	51	ASP
82	c5	51	SER
82	c5	131	ALA
82	c5	132	GLY
18	c6	39	VAL
18	c6	115	THR
19	c7	116	LYS
20	c8	60	GLU
22	d0	15	GLN
22	d0	52	LYS
22	d0	96	PRO
22	d0	118	VAL
26	d4	35	VAL
27	d5	44	GLN
28	d6	28	LYS
29	d7	53	ALA
32	e0	47	VAL
32	e0	51	ASN
32	e0	61	SER
33	e1	100	LEU
33	e1	102	VAL
33	e1	112	GLY
33	e1	136	LYS
84	sM	65	THR
84	sM	83	LYS
39	l2	24	GLN
39	l2	96	LEU
39	l2	127	ALA
39	l2	212	GLY
40	l3	140	ASP
41	l4	14	GLU
41	l4	15	ALA
41	l4	90	PHE
41	l4	146	PRO
41	l4	311	HIS
41	l4	345	GLU
42	l5	26	GLY
42	l5	123	GLU
42	l5	258	LYS

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Mol	Chain	Res	Type
42	l5	260	PHE
43	l6	98	VAL
44	l7	158	LYS
85	l8	26	LEU
85	l8	203	VAL
46	l9	144	ILE
46	l9	189	GLU
47	m0	83	ASP
47	m0	193	ASP
48	m1	95	ASN
48	m1	115	LYS
48	m1	167	TYR
49	m3	50	PRO
49	m3	93	ILE
49	m3	101	ARG
49	m3	134	GLU
49	m3	135	ALA
49	m3	141	ALA
50	m4	136	ALA
51	m5	183	THR
51	m5	184	LYS
51	m5	187	ARG
52	m6	16	VAL
53	m7	66	SER
53	m7	77	GLY
54	m8	84	VAL
54	m8	167	SER
56	n0	142	GLN
59	n3	42	SER
87	n4	25	ASP
87	n4	83	THR
87	n4	133	THR
61	n5	25	LYS
61	n5	40	LEU
63	n7	29	HIS
63	n7	70	PRO
63	n7	130	PHE
64	n8	47	LYS
65	n9	24	PRO
65	n9	25	LYS
66	o0	10	ILE
67	o1	83	GLU

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Mol	Chain	Res	Type
68	o2	124	GLY
70	o4	79	SER
71	o5	119	LYS
73	o7	67	LEU
73	o7	87	SER
74	o8	18	ALA
75	o9	3	ALA
78	q2	31	GLY
78	q2	32	LYS
88	p0	33	VAL
2	S0	192	THR
2	S0	195	TRP
3	S1	54	LEU
3	S1	156	ALA
6	S4	3	ARG
6	S4	245	LYS
7	S5	31	GLU
7	S5	39	GLU
7	S5	45	LYS
8	S6	69	LEU
9	S7	30	SER
9	S7	36	ALA
9	S7	74	GLN
9	S7	98	ILE
10	S8	22	ARG
11	S9	150	LEU
12	C0	64	TYR
13	C1	7	VAL
13	C1	146	ALA
14	C2	21	GLU
14	C2	87	PRO
14	C2	106	ILE
14	C2	107	ASP
14	C2	119	SER
15	C3	27	LYS
16	C4	40	ALA
16	C4	42	VAL
17	C5	52	LYS
17	C5	69	GLU
18	C6	111	SER
21	C9	69	LYS
22	D0	55	PRO

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Mol	Chain	Res	Type
24	D2	78	ARG
25	D3	131	SER
27	D5	41	ILE
28	D6	18	VAL
28	D6	35	ALA
29	D7	51	GLN
30	D8	61	ARG
31	D9	8	PHE
32	E0	50	VAL
33	E1	103	LEU
33	E1	111	GLU
33	E1	118	ARG
34	SR	98	GLU
34	SR	163	ASP
35	SM	82	THR
39	L2	144	ASN
39	L2	251	LYS
40	L3	174	LYS
40	L3	221	THR
41	L4	15	ALA
41	L4	90	PHE
41	L4	146	PRO
41	L4	182	LEU
41	L4	232	SER
41	L4	268	ALA
42	L5	7	ALA
42	L5	215	ASP
42	L5	260	PHE
43	L6	5	LYS
45	L8	76	ALA
46	L9	190	ASP
47	M0	187	ALA
47	M0	207	GLU
48	M1	95	ASN
48	M1	108	GLU
48	M1	145	LYS
49	M3	50	PRO
49	M3	76	THR
49	M3	130	GLY
49	M3	166	ALA
51	M5	81	TYR
53	M7	162	GLU

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Mol	Chain	Res	Type
53	M7	164	LYS
57	N1	159	PHE
58	N2	11	ILE
59	N3	46	LEU
59	N3	47	ASN
60	N4	97	LYS
62	N6	91	ASN
63	N7	36	HIS
64	N8	97	GLU
64	N8	117	ARG
68	O2	12	LYS
68	O2	68	PRO
72	O6	64	SER
79	Q3	7	LYS
79	Q3	84	ARG
2	s0	10	THR
2	s0	30	GLN
2	s0	185	ARG
2	s0	194	PRO
2	s0	203	PHE
3	s1	21	VAL
3	s1	39	GLU
3	s1	147	ALA
4	s2	106	ASP
4	s2	107	SER
4	s2	238	SER
5	s3	44	THR
5	s3	161	GLY
6	s4	245	LYS
7	s5	43	PHE
7	s5	151	GLY
8	s6	65	GLN
8	s6	68	LEU
8	s6	126	ASP
8	s6	152	ASP
8	s6	165	GLY
11	s9	169	PRO
13	c1	40	LEU
13	c1	121	ASP
81	c2	93	ASP
15	c3	87	ASP
15	c3	140	LYS

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Mol	Chain	Res	Type
16	c4	50	ALA
82	c5	7	ALA
82	c5	9	LYS
18	c6	113	ASP
20	c8	61	LEU
24	d2	56	HIS
26	d4	50	ALA
26	d4	78	SER
28	d6	13	LYS
29	d7	62	ILE
30	d8	62	GLU
31	d9	7	TRP
33	e1	81	LYS
33	e1	86	THR
33	e1	129	GLY
33	e1	131	PHE
33	e1	148	TYR
83	sR	4	ASN
84	sM	47	ALA
39	l2	56	ALA
39	l2	216	HIS
40	l3	155	ALA
40	l3	235	THR
41	l4	142	VAL
41	l4	190	GLY
41	l4	220	ARG
41	l4	233	LEU
41	l4	302	ALA
42	l5	270	LYS
44	l7	191	VAL
44	l7	228	SER
85	l8	39	ALA
85	l8	133	LYS
85	l8	239	GLY
85	l8	240	ASN
46	l9	2	LYS
47	m0	170	LYS
47	m0	174	THR
47	m0	176	LEU
47	m0	204	GLY
51	m5	181	ASN
54	m8	112	ALA

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Mol	Chain	Res	Type
56	n0	154	HIS
58	n2	91	ASP
87	n4	58	HIS
63	n7	56	LYS
63	n7	128	GLN
66	o0	100	ILE
66	o0	103	THR
67	o1	5	LYS
67	o1	84	ASP
71	o5	81	ARG
72	o6	34	SER
76	q0	78	ILE
78	q2	60	LYS
79	q3	50	GLY
88	p0	102	SER
2	S0	103	THR
2	S0	205	ARG
3	S1	130	SER
3	S1	209	ASN
3	S1	213	ARG
4	S2	235	LEU
4	S2	248	SER
5	S3	217	ILE
6	S4	193	GLY
6	S4	200	ARG
6	S4	234	PRO
6	S4	260	GLY
7	S5	58	LEU
7	S5	64	VAL
9	S7	5	GLN
9	S7	156	SER
10	S8	10	LYS
10	S8	52	ASN
10	S8	120	THR
10	S8	152	ILE
11	S9	118	LEU
12	C0	34	GLU
13	C1	147	ALA
14	C2	22	VAL
14	C2	112	ALA
14	C2	125	ASN
15	C3	3	ARG

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Mol	Chain	Res	Type
18	C6	32	ASN
19	C7	84	TYR
23	D1	81	ASN
24	D2	30	SER
24	D2	83	ILE
25	D3	41	SER
26	D4	6	THR
26	D4	34	ASN
26	D4	51	GLU
28	D6	46	GLU
28	D6	64	LEU
30	D8	6	PRO
33	E1	87	THR
34	SR	15	GLY
34	SR	231	MET
35	SM	12	VAL
39	L2	143	GLU
39	L2	246	LEU
42	L5	228	ALA
42	L5	259	LYS
45	L8	156	ASP
45	L8	157	VAL
45	L8	254	ASP
46	L9	2	LYS
46	L9	110	LYS
47	M0	217	PHE
51	M5	75	VAL
51	M5	184	LYS
53	M7	160	ALA
53	M7	161	ALA
53	M7	163	LYS
54	M8	99	THR
56	N0	24	LEU
60	N4	76	VAL
63	N7	103	GLN
65	N9	18	ARG
66	O0	96	GLY
71	O5	75	TYR
72	O6	34	SER
74	O8	35	GLY
78	Q2	34	SER
2	s0	103	THR

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Mol	Chain	Res	Type
3	s1	26	ARG
3	s1	179	SER
3	s1	224	ASP
4	s2	150	GLN
4	s2	235	LEU
5	s3	90	ARG
5	s3	93	ASP
5	s3	221	SER
6	s4	30	ARG
6	s4	90	ILE
6	s4	168	LYS
7	s5	29	ILE
7	s5	100	ASN
7	s5	153	GLY
8	s6	25	ARG
10	s8	94	ASN
11	s9	121	SER
11	s9	164	PHE
11	s9	167	ALA
80	c0	24	LYS
80	c0	30	ALA
13	c1	55	ASP
81	c2	39	ASP
81	c2	45	LEU
15	c3	60	VAL
15	c3	82	PRO
16	c4	48	VAL
16	c4	132	ARG
82	c5	14	THR
18	c6	97	VAL
19	c7	62	GLN
19	c7	113	LEU
22	d0	13	GLU
22	d0	51	VAL
23	d1	42	GLU
23	d1	44	ARG
26	d4	58	PHE
28	d6	15	ARG
28	d6	59	TYR
29	d7	20	LYS
29	d7	75	GLU
30	d8	33	LEU

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Mol	Chain	Res	Type
31	d9	11	PRO
33	e1	84	VAL
33	e1	103	LEU
83	sR	161	LYS
39	l2	80	GLU
40	l3	23	ALA
40	l3	187	SER
40	l3	386	ASP
41	l4	145	ILE
41	l4	193	LYS
41	l4	330	TYR
43	l6	10	TYR
43	l6	20	LYS
43	l6	172	HIS
85	l8	82	LEU
85	l8	163	VAL
85	l8	237	ILE
46	l9	110	LYS
48	m1	114	ILE
49	m3	60	ALA
49	m3	76	THR
49	m3	129	ASN
53	m7	67	ILE
53	m7	75	GLU
53	m7	78	VAL
54	m8	108	ALA
54	m8	155	MET
55	m9	3	ASN
56	n0	2	ALA
57	n1	135	PRO
59	n3	64	LYS
61	n5	38	LEU
61	n5	47	ALA
62	n6	77	LYS
63	n7	103	GLN
63	n7	127	ASN
63	n7	134	LEU
64	n8	110	GLY
68	o2	4	LEU
68	o2	5	PRO
68	o2	12	LYS
71	o5	82	ALA

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Mol	Chain	Res	Type
73	o7	85	LYS
73	o7	86	ALA
2	S0	66	ALA
3	S1	64	ARG
4	S2	150	GLN
5	S3	4	LEU
6	S4	77	ARG
7	S5	81	ARG
8	S6	146	GLY
9	S7	73	VAL
10	S8	59	ARG
13	C1	95	PRO
14	C2	39	ASP
14	C2	66	VAL
14	C2	68	GLU
14	C2	101	ALA
16	C4	18	ARG
16	C4	75	GLY
17	C5	9	LYS
22	D0	21	LYS
22	D0	49	ASN
23	D1	10	GLU
23	D1	42	GLU
23	D1	44	ARG
25	D3	3	LYS
25	D3	89	ASN
31	D9	11	PRO
33	E1	100	LEU
34	SR	160	GLU
34	SR	237	GLN
35	SM	46	LYS
35	SM	101	ASP
39	L2	127	ALA
40	L3	155	ALA
41	L4	5	GLN
41	L4	14	GLU
41	L4	233	LEU
41	L4	313	LEU
41	L4	339	LEU
41	L4	361	HIS
42	L5	19	PRO
42	L5	292	ALA

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Mol	Chain	Res	Type
46	L9	96	HIS
48	M1	117	ASP
51	M5	94	TYR
51	M5	145	ASP
54	M8	162	ALA
56	N0	2	ALA
60	N4	80	ARG
64	N8	47	LYS
65	N9	25	LYS
67	O1	7	VAL
69	O3	91	ALA
70	O4	46	ASP
72	O6	3	VAL
72	O6	21	THR
72	O6	77	LEU
75	O9	4	GLN
76	Q0	79	GLU
2	s0	127	ARG
4	s2	91	ARG
6	s4	94	ALA
6	s4	119	ALA
7	s5	35	GLN
7	s5	152	GLY
9	s7	8	ILE
9	s7	11	GLN
10	s8	78	ILE
11	s9	126	ARG
80	c0	3	MET
80	c0	31	LYS
81	c2	59	LEU
81	c2	82	PRO
81	c2	118	ALA
15	c3	22	ALA
19	c7	86	PRO
20	c8	14	ILE
20	c8	135	GLY
22	d0	72	ASN
23	d1	4	ASP
23	d1	77	GLY
25	d3	101	GLU
26	d4	51	GLU
26	d4	53	ASP

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Mol	Chain	Res	Type
28	d6	35	ALA
29	d7	3	LEU
29	d7	58	SER
33	e1	146	SER
83	sR	146	GLY
84	sM	43	ASP
84	sM	46	LYS
39	l2	143	GLU
41	l4	328	ASN
46	l9	96	HIS
46	l9	167	VAL
47	m0	43	VAL
48	m1	153	LYS
50	m4	135	LEU
63	n7	16	GLY
64	n8	24	LYS
66	o0	101	LEU
69	o3	33	GLU
69	o3	59	VAL
3	S1	210	ILE
7	S5	100	ASN
8	S6	123	GLY
8	S6	153	VAL
11	S9	162	SER
13	C1	96	LYS
14	C2	63	VAL
14	C2	85	LYS
14	C2	128	ALA
14	C2	131	ASP
18	C6	33	GLY
25	D3	96	VAL
28	D6	63	ALA
35	SM	17	VAL
35	SM	53	ARG
35	SM	89	ARG
35	SM	139	GLU
39	L2	180	LEU
40	L3	175	LYS
40	L3	317	ILE
41	L4	4	PRO
41	L4	140	HIS
44	L7	178	ILE

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Mol	Chain	Res	Type
45	L8	190	VAL
50	M4	6	ILE
52	M6	110	PRO
64	N8	27	LYS
2	s0	191	ARG
4	s2	163	GLY
4	s2	236	PRO
5	s3	43	PRO
5	s3	160	SER
5	s3	180	GLY
9	s7	115	SER
9	s7	185	ILE
10	s8	52	ASN
11	s9	162	SER
13	c1	76	VAL
16	c4	124	ASP
82	c5	71	GLU
82	c5	128	HIS
82	c5	130	ARG
23	d1	10	GLU
25	d3	70	LYS
27	d5	103	ARG
28	d6	58	VAL
32	e0	45	VAL
32	e0	54	ARG
40	l3	3	HIS
44	l7	229	PHE
85	l8	69	LEU
85	l8	81	THR
47	m0	101	LYS
48	m1	12	LEU
49	m3	152	THR
50	m4	49	PRO
51	m5	68	ARG
55	m9	36	ASN
87	n4	72	SER
64	n8	129	PHE
70	o4	78	GLY
70	o4	82	ALA
72	o6	36	ARG
23	D1	82	VAL
25	D3	8	GLY

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Mol	Chain	Res	Type
26	D4	100	VAL
56	N0	167	ARG
65	N9	21	ILE
69	O3	59	VAL
70	O4	77	GLY
4	s2	83	ILE
10	s8	50	GLY
10	s8	101	ILE
81	c2	63	VAL
82	c5	129	GLY
28	d6	60	PRO
41	l4	272	VAL
42	l5	125	VAL
72	o6	3	VAL
3	S1	48	VAL
3	S1	176	VAL
4	S2	182	PRO
14	C2	81	ASP
23	D1	6	GLY
26	D4	47	VAL
41	L4	131	VAL
54	M8	183	GLY
8	s6	69	LEU
82	c5	48	GLY
83	sR	97	GLY
83	sR	105	GLY
44	l7	178	ILE
71	o5	4	VAL
2	S0	189	VAL
17	C5	87	PRO
26	D4	95	GLY
27	D5	55	PRO
44	L7	191	VAL
45	L8	30	THR
47	M0	47	PRO
3	s1	22	ASP
81	c2	115	VAL
19	c7	117	LEU
25	d3	130	VAL
87	n4	132	GLY
3	S1	114	VAL
7	S5	21	THR

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Mol	Chain	Res	Type
9	S7	132	PRO
27	D5	88	ILE
34	SR	194	GLY
53	M7	36	ILE
8	s6	153	VAL
40	l3	141	GLY
61	n5	62	VAL
65	n9	37	PRO
72	o6	9	ILE
88	p0	196	VAL
7	s5	59	VAL
84	sM	51	ARG

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	S0	164/173 (95%)	128 (78%)	36 (22%)	1 4
2	s0	165/173 (95%)	134 (81%)	31 (19%)	1 7
3	S1	191/192 (100%)	155 (81%)	36 (19%)	1 7
3	s1	192/192 (100%)	157 (82%)	35 (18%)	2 7
4	S2	176/176 (100%)	137 (78%)	39 (22%)	1 4
4	s2	176/176 (100%)	134 (76%)	42 (24%)	1 3
5	S3	182/182 (100%)	146 (80%)	36 (20%)	1 5
5	s3	182/182 (100%)	153 (84%)	29 (16%)	2 11
6	S4	221/221 (100%)	178 (80%)	43 (20%)	1 6
6	s4	221/221 (100%)	184 (83%)	37 (17%)	2 10
7	S5	173/173 (100%)	144 (83%)	29 (17%)	2 10
7	s5	173/173 (100%)	138 (80%)	35 (20%)	1 5
8	S6	188/193 (97%)	157 (84%)	31 (16%)	2 10
8	s6	187/193 (97%)	150 (80%)	37 (20%)	1 5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
9	S7	165/166 (99%)	133 (81%)	32 (19%)	1 6
9	s7	165/166 (99%)	132 (80%)	33 (20%)	1 5
10	S8	150/160 (94%)	126 (84%)	24 (16%)	2 11
10	s8	150/160 (94%)	130 (87%)	20 (13%)	4 17
11	S9	158/158 (100%)	122 (77%)	36 (23%)	1 4
11	s9	158/158 (100%)	134 (85%)	24 (15%)	3 12
12	C0	77/77 (100%)	61 (79%)	16 (21%)	1 5
13	C1	129/129 (100%)	109 (84%)	20 (16%)	2 12
13	c1	129/129 (100%)	100 (78%)	29 (22%)	1 4
14	C2	88/100 (88%)	68 (77%)	20 (23%)	1 4
15	C3	127/127 (100%)	107 (84%)	20 (16%)	2 11
15	c3	127/127 (100%)	103 (81%)	24 (19%)	1 6
16	C4	81/97 (84%)	63 (78%)	18 (22%)	1 4
16	c4	97/97 (100%)	70 (72%)	27 (28%)	0 1
17	C5	101/107 (94%)	84 (83%)	17 (17%)	2 10
18	C6	117/118 (99%)	94 (80%)	23 (20%)	1 6
18	c6	118/118 (100%)	99 (84%)	19 (16%)	2 11
19	C7	94/113 (83%)	74 (79%)	20 (21%)	1 4
19	c7	92/113 (81%)	77 (84%)	15 (16%)	2 10
20	C8	128/128 (100%)	89 (70%)	39 (30%)	0 1
20	c8	128/128 (100%)	104 (81%)	24 (19%)	1 7
21	C9	115/115 (100%)	90 (78%)	25 (22%)	1 4
21	c9	115/115 (100%)	97 (84%)	18 (16%)	2 11
22	D0	100/103 (97%)	73 (73%)	27 (27%)	0 2
22	d0	103/103 (100%)	74 (72%)	29 (28%)	0 1
23	D1	74/74 (100%)	61 (82%)	13 (18%)	2 8
23	d1	74/74 (100%)	59 (80%)	15 (20%)	1 5
24	D2	110/110 (100%)	90 (82%)	20 (18%)	2 7
24	d2	110/110 (100%)	100 (91%)	10 (9%)	9 30
25	D3	119/119 (100%)	99 (83%)	20 (17%)	2 10
25	d3	119/119 (100%)	104 (87%)	15 (13%)	4 19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
26	D4	112/112 (100%)	91 (81%)	21 (19%)	1 7
26	d4	112/112 (100%)	91 (81%)	21 (19%)	1 7
27	D5	61/61 (100%)	43 (70%)	18 (30%)	0 1
27	d5	61/61 (100%)	48 (79%)	13 (21%)	1 4
28	D6	83/83 (100%)	63 (76%)	20 (24%)	1 3
28	d6	83/83 (100%)	71 (86%)	12 (14%)	3 14
29	D7	70/70 (100%)	64 (91%)	6 (9%)	10 32
29	d7	70/70 (100%)	59 (84%)	11 (16%)	2 11
30	D8	56/56 (100%)	45 (80%)	11 (20%)	1 6
30	d8	56/56 (100%)	39 (70%)	17 (30%)	0 1
31	D9	47/47 (100%)	39 (83%)	8 (17%)	2 9
31	d9	47/47 (100%)	39 (83%)	8 (17%)	2 9
32	E0	51/53 (96%)	42 (82%)	9 (18%)	2 8
32	e0	53/53 (100%)	39 (74%)	14 (26%)	0 2
33	E1	62/66 (94%)	48 (77%)	14 (23%)	1 4
33	e1	66/66 (100%)	49 (74%)	17 (26%)	0 2
34	SR	259/260 (100%)	231 (89%)	28 (11%)	6 23
35	SM	97/107 (91%)	79 (81%)	18 (19%)	1 7
39	L2	193/194 (100%)	161 (83%)	32 (17%)	2 10
39	l2	192/194 (99%)	154 (80%)	38 (20%)	1 5
40	L3	321/322 (100%)	254 (79%)	67 (21%)	1 5
40	l3	321/322 (100%)	257 (80%)	64 (20%)	1 5
41	L4	288/288 (100%)	238 (83%)	50 (17%)	2 8
41	l4	288/288 (100%)	229 (80%)	59 (20%)	1 5
42	L5	244/244 (100%)	203 (83%)	41 (17%)	2 10
42	l5	243/244 (100%)	196 (81%)	47 (19%)	1 6
43	L6	134/152 (88%)	111 (83%)	23 (17%)	2 9
43	l6	135/152 (89%)	115 (85%)	20 (15%)	3 13
44	L7	186/187 (100%)	160 (86%)	26 (14%)	3 15
44	l7	187/187 (100%)	161 (86%)	26 (14%)	3 15
45	L8	187/191 (98%)	155 (83%)	32 (17%)	2 9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
46	L9	171/171 (100%)	133 (78%)	38 (22%)	1 4
46	l9	171/171 (100%)	128 (75%)	43 (25%)	0 2
47	M0	177/186 (95%)	142 (80%)	35 (20%)	1 5
47	m0	179/186 (96%)	143 (80%)	36 (20%)	1 5
48	M1	147/147 (100%)	119 (81%)	28 (19%)	1 6
48	m1	147/147 (100%)	120 (82%)	27 (18%)	1 7
49	M3	154/154 (100%)	127 (82%)	27 (18%)	2 8
49	m3	154/154 (100%)	130 (84%)	24 (16%)	2 11
50	M4	107/108 (99%)	84 (78%)	23 (22%)	1 4
50	m4	108/108 (100%)	85 (79%)	23 (21%)	1 4
51	M5	175/175 (100%)	141 (81%)	34 (19%)	1 6
51	m5	175/175 (100%)	148 (85%)	27 (15%)	2 12
52	M6	160/160 (100%)	136 (85%)	24 (15%)	3 13
52	m6	160/160 (100%)	134 (84%)	26 (16%)	2 10
53	M7	140/145 (97%)	106 (76%)	34 (24%)	1 3
53	m7	125/145 (86%)	99 (79%)	26 (21%)	1 5
54	M8	150/150 (100%)	125 (83%)	25 (17%)	2 10
54	m8	150/150 (100%)	117 (78%)	33 (22%)	1 4
55	M9	153/153 (100%)	120 (78%)	33 (22%)	1 4
55	m9	153/153 (100%)	120 (78%)	33 (22%)	1 4
56	N0	156/156 (100%)	125 (80%)	31 (20%)	1 5
56	n0	156/156 (100%)	132 (85%)	24 (15%)	2 12
57	N1	136/136 (100%)	106 (78%)	30 (22%)	1 4
57	n1	136/136 (100%)	102 (75%)	34 (25%)	0 2
58	N2	87/87 (100%)	75 (86%)	12 (14%)	3 15
58	n2	85/87 (98%)	66 (78%)	19 (22%)	1 4
59	N3	104/104 (100%)	87 (84%)	17 (16%)	2 10
59	n3	104/104 (100%)	88 (85%)	16 (15%)	2 12
60	N4	57/86 (66%)	47 (82%)	10 (18%)	2 8
61	N5	104/105 (99%)	77 (74%)	27 (26%)	0 2
61	n5	104/105 (99%)	83 (80%)	21 (20%)	1 5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
62	N6	109/109 (100%)	82 (75%)	27 (25%)	1 2
62	n6	109/109 (100%)	78 (72%)	31 (28%)	0 1
63	N7	115/115 (100%)	93 (81%)	22 (19%)	1 6
63	n7	115/115 (100%)	89 (77%)	26 (23%)	1 4
64	N8	118/118 (100%)	95 (80%)	23 (20%)	1 6
64	n8	118/118 (100%)	99 (84%)	19 (16%)	2 11
65	N9	46/46 (100%)	38 (83%)	8 (17%)	2 8
65	n9	46/46 (100%)	34 (74%)	12 (26%)	0 2
66	O0	81/84 (96%)	69 (85%)	12 (15%)	3 13
66	o0	84/84 (100%)	69 (82%)	15 (18%)	2 7
67	O1	92/96 (96%)	75 (82%)	17 (18%)	1 7
67	o1	94/96 (98%)	77 (82%)	17 (18%)	2 7
68	O2	109/109 (100%)	94 (86%)	15 (14%)	3 15
68	o2	109/109 (100%)	95 (87%)	14 (13%)	4 18
69	O3	90/90 (100%)	74 (82%)	16 (18%)	2 7
69	o3	90/90 (100%)	78 (87%)	12 (13%)	4 17
70	O4	95/95 (100%)	75 (79%)	20 (21%)	1 4
70	o4	95/95 (100%)	83 (87%)	12 (13%)	4 19
71	O5	104/104 (100%)	81 (78%)	23 (22%)	1 4
71	o5	103/104 (99%)	78 (76%)	25 (24%)	1 3
72	O6	81/81 (100%)	61 (75%)	20 (25%)	1 3
72	o6	80/81 (99%)	53 (66%)	27 (34%)	0 1
73	O7	70/70 (100%)	57 (81%)	13 (19%)	1 7
73	o7	70/70 (100%)	54 (77%)	16 (23%)	1 4
74	O8	68/68 (100%)	51 (75%)	17 (25%)	0 2
74	o8	67/68 (98%)	54 (81%)	13 (19%)	1 6
75	O9	45/45 (100%)	39 (87%)	6 (13%)	4 17
75	o9	45/45 (100%)	41 (91%)	4 (9%)	9 30
76	Q0	47/47 (100%)	39 (83%)	8 (17%)	2 9
76	q0	47/47 (100%)	36 (77%)	11 (23%)	1 3
77	Q1	23/23 (100%)	17 (74%)	6 (26%)	0 2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
77	q1	23/23 (100%)	15 (65%)	8 (35%)	0 0
78	Q2	90/90 (100%)	68 (76%)	22 (24%)	1 3
78	q2	90/90 (100%)	70 (78%)	20 (22%)	1 4
79	Q3	71/71 (100%)	61 (86%)	10 (14%)	3 15
79	q3	71/71 (100%)	57 (80%)	14 (20%)	1 6
80	c0	73/73 (100%)	59 (81%)	14 (19%)	1 6
81	c2	88/88 (100%)	66 (75%)	22 (25%)	0 2
82	c5	103/118 (87%)	88 (85%)	15 (15%)	3 14
83	sR	260/261 (100%)	238 (92%)	22 (8%)	10 32
84	sM	54/54 (100%)	40 (74%)	14 (26%)	0 2
85	l8	177/185 (96%)	147 (83%)	30 (17%)	2 9
87	n4	100/114 (88%)	87 (87%)	13 (13%)	4 17
88	p0	105/165 (64%)	83 (79%)	22 (21%)	1 5
All	All	18729/19106 (98%)	15177 (81%)	3552 (19%)	1 6

All (3552) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	6	THR
2	S0	7	PHE
2	S0	8	ASP
2	S0	9	LEU
2	S0	33	GLN
2	S0	37	VAL
2	S0	43	ASP
2	S0	45	VAL
2	S0	49	ASN
2	S0	50	VAL
2	S0	52	LYS
2	S0	57	LEU
2	S0	59	LEU
2	S0	76	ILE
2	S0	84	ARG
2	S0	87	LEU
2	S0	88	LYS
2	S0	96	THR
2	S0	101	ARG

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Mol	Chain	Res	Type
2	S0	103	THR
2	S0	111	ILE
2	S0	117	GLU
2	S0	123	VAL
2	S0	131	GLN
2	S0	135	GLU
2	S0	139	VAL
2	S0	154	GLU
2	S0	156	VAL
2	S0	157	ASP
2	S0	170	ILE
2	S0	172	LEU
2	S0	184	LEU
2	S0	185	ARG
2	S0	188	LEU
2	S0	196	SER
2	S0	197	ILE
3	S1	21	VAL
3	S1	22	ASP
3	S1	25	THR
3	S1	29	TRP
3	S1	42	ASN
3	S1	46	THR
3	S1	61	LEU
3	S1	66	VAL
3	S1	70	LEU
3	S1	77	GLU
3	S1	81	PHE
3	S1	83	LYS
3	S1	91	VAL
3	S1	96	LEU
3	S1	97	LEU
3	S1	105	PHE
3	S1	112	SER
3	S1	117	TRP
3	S1	120	LEU
3	S1	124	ASN
3	S1	135	LEU
3	S1	149	GLN
3	S1	150	VAL
3	S1	170	GLU
3	S1	174	LYS

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Mol	Chain	Res	Type
3	S1	176	VAL
3	S1	177	GLN
3	S1	180	THR
3	S1	181	LEU
3	S1	198	GLU
3	S1	202	LYS
3	S1	214	LYS
3	S1	215	VAL
3	S1	218	LEU
3	S1	219	LYS
3	S1	220	GLN
4	S2	41	LEU
4	S2	50	ILE
4	S2	53	ILE
4	S2	54	GLU
4	S2	58	LEU
4	S2	69	ILE
4	S2	70	ASP
4	S2	72	LEU
4	S2	73	LEU
4	S2	76	LEU
4	S2	77	GLN
4	S2	89	GLN
4	S2	90	THR
4	S2	91	ARG
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	111	VAL
4	S2	113	LEU
4	S2	117	THR
4	S2	134	LEU
4	S2	136	VAL
4	S2	137	ILE
4	S2	139	ILE
4	S2	141	ARG
4	S2	146	THR
4	S2	148	LEU
4	S2	159	THR
4	S2	166	THR
4	S2	187	LEU
4	S2	193	VAL

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Mol	Chain	Res	Type
4	S2	201	ASN
4	S2	207	LEU
4	S2	208	GLU
4	S2	222	TYR
4	S2	225	LEU
4	S2	226	THR
4	S2	237	VAL
4	S2	245	ASP
5	S3	4	LEU
5	S3	7	LYS
5	S3	23	GLU
5	S3	55	THR
5	S3	65	ARG
5	S3	66	ILE
5	S3	84	ILE
5	S3	91	VAL
5	S3	92	GLN
5	S3	93	ASP
5	S3	94	ARG
5	S3	103	GLU
5	S3	104	SER
5	S3	105	MET
5	S3	113	LEU
5	S3	117	ARG
5	S3	127	MET
5	S3	135	GLU
5	S3	141	LYS
5	S3	142	LEU
5	S3	143	ARG
5	S3	146	ARG
5	S3	151	LYS
5	S3	157	LEU
5	S3	158	ILE
5	S3	175	VAL
5	S3	176	LEU
5	S3	178	ARG
5	S3	181	VAL
5	S3	190	ARG
5	S3	209	ILE
5	S3	210	GLU
5	S3	212	LYS
5	S3	217	ILE

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Mol	Chain	Res	Type
5	S3	218	LEU
5	S3	222	VAL
6	S4	6	LYS
6	S4	7	LYS
6	S4	9	LEU
6	S4	12	LEU
6	S4	38	LEU
6	S4	39	ARG
6	S4	42	LEU
6	S4	45	ILE
6	S4	65	LEU
6	S4	68	ARG
6	S4	70	VAL
6	S4	77	ARG
6	S4	92	LEU
6	S4	93	ASP
6	S4	116	ASP
6	S4	117	GLU
6	S4	126	VAL
6	S4	128	LYS
6	S4	129	VAL
6	S4	131	LEU
6	S4	133	LYS
6	S4	139	VAL
6	S4	140	VAL
6	S4	146	THR
6	S4	148	ARG
6	S4	155	LYS
6	S4	160	VAL
6	S4	164	LEU
6	S4	180	LEU
6	S4	187	ARG
6	S4	192	ILE
6	S4	197	HIS
6	S4	210	ILE
6	S4	211	LYS
6	S4	214	LEU
6	S4	215	ASP
6	S4	222	LEU
6	S4	227	VAL
6	S4	231	GLN
6	S4	240	LYS

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Mol	Chain	Res	Type
6	S4	242	LYS
6	S4	246	LEU
6	S4	259	GLN
7	S5	23	VAL
7	S5	24	VAL
7	S5	25	LEU
7	S5	32	GLU
7	S5	41	LYS
7	S5	45	LYS
7	S5	49	GLU
7	S5	51	VAL
7	S5	53	VAL
7	S5	63	GLN
7	S5	79	ASN
7	S5	86	GLN
7	S5	89	ILE
7	S5	93	LEU
7	S5	126	ASP
7	S5	146	THR
7	S5	147	THR
7	S5	149	VAL
7	S5	156	ARG
7	S5	160	VAL
7	S5	162	VAL
7	S5	170	GLN
7	S5	186	ASN
7	S5	190	ILE
7	S5	194	LEU
7	S5	203	LYS
7	S5	206	SER
7	S5	216	GLU
7	S5	225	ARG
8	S6	25	ARG
8	S6	30	LYS
8	S6	44	GLU
8	S6	58	LYS
8	S6	59	GLN
8	S6	65	GLN
8	S6	69	LEU
8	S6	72	ARG
8	S6	76	LEU
8	S6	78	THR

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Mol	Chain	Res	Type
8	S6	79	LYS
8	S6	81	VAL
8	S6	82	SER
8	S6	97	VAL
8	S6	120	GLU
8	S6	122	GLU
8	S6	124	LEU
8	S6	126	ASP
8	S6	127	THR
8	S6	128	THR
8	S6	129	VAL
8	S6	132	ARG
8	S6	133	LEU
8	S6	143	LYS
8	S6	155	ASP
8	S6	170	THR
8	S6	175	ILE
8	S6	201	GLN
8	S6	212	LEU
8	S6	216	LEU
8	S6	223	LYS
9	S7	9	LEU
9	S7	37	GLU
9	S7	38	LEU
9	S7	46	ILE
9	S7	50	ASP
9	S7	51	VAL
9	S7	60	ILE
9	S7	70	PHE
9	S7	76	LYS
9	S7	77	LEU
9	S7	79	ARG
9	S7	80	GLU
9	S7	87	ASP
9	S7	91	ILE
9	S7	97	ARG
9	S7	104	ARG
9	S7	105	THR
9	S7	109	VAL
9	S7	114	ARG
9	S7	116	ARG
9	S7	126	LEU

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Mol	Chain	Res	Type
9	S7	141	ARG
9	S7	143	LEU
9	S7	144	VAL
9	S7	154	LEU
9	S7	159	VAL
9	S7	166	LEU
9	S7	167	GLU
9	S7	175	LYS
9	S7	181	ILE
9	S7	184	GLU
9	S7	185	ILE
10	S8	8	ARG
10	S8	21	PHE
10	S8	28	GLU
10	S8	29	LEU
10	S8	32	GLN
10	S8	36	THR
10	S8	49	ARG
10	S8	58	LEU
10	S8	62	THR
10	S8	66	SER
10	S8	70	GLU
10	S8	72	ILE
10	S8	74	LYS
10	S8	121	LEU
10	S8	123	LYS
10	S8	138	ASN
10	S8	140	GLU
10	S8	151	LYS
10	S8	152	ILE
10	S8	155	SER
10	S8	184	LEU
10	S8	185	GLU
10	S8	196	LEU
10	S8	199	LYS
11	S9	3	ARG
11	S9	6	ARG
11	S9	7	THR
11	S9	14	THR
11	S9	28	LEU
11	S9	36	LEU
11	S9	39	LYS

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Mol	Chain	Res	Type
11	S9	49	LEU
11	S9	54	ARG
11	S9	60	LEU
11	S9	61	THR
11	S9	79	ARG
11	S9	82	ARG
11	S9	88	GLU
11	S9	89	ASP
11	S9	92	LYS
11	S9	93	LEU
11	S9	96	VAL
11	S9	97	LEU
11	S9	99	LEU
11	S9	101	VAL
11	S9	105	LEU
11	S9	109	LEU
11	S9	110	GLN
11	S9	113	VAL
11	S9	118	LEU
11	S9	120	LYS
11	S9	134	ILE
11	S9	138	LYS
11	S9	141	VAL
11	S9	145	SER
11	S9	149	ARG
11	S9	151	ASP
11	S9	161	THR
11	S9	171	ARG
11	S9	182	GLU
12	C0	1	MET
12	C0	8	ARG
12	C0	20	VAL
12	C0	22	VAL
12	C0	24	LYS
12	C0	27	PHE
12	C0	28	ASN
12	C0	32	HIS
12	C0	40	LEU
12	C0	46	LEU
12	C0	55	VAL
12	C0	56	LYS
12	C0	71	GLU

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Mol	Chain	Res	Type
12	C0	76	LEU
12	C0	78	GLU
12	C0	82	LEU
13	C1	7	VAL
13	C1	8	GLN
13	C1	21	ASN
13	C1	29	LYS
13	C1	40	LEU
13	C1	43	LYS
13	C1	44	THR
13	C1	54	ILE
13	C1	67	ARG
13	C1	71	LEU
13	C1	74	THR
13	C1	79	LYS
13	C1	83	THR
13	C1	94	ILE
13	C1	99	ARG
13	C1	109	VAL
13	C1	123	VAL
13	C1	125	VAL
13	C1	131	ILE
13	C1	141	LYS
14	C2	25	GLU
14	C2	28	LEU
14	C2	33	ARG
14	C2	36	LEU
14	C2	43	ARG
14	C2	50	LYS
14	C2	58	LEU
14	C2	61	VAL
14	C2	63	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	74	LEU
14	C2	89	ILE
14	C2	103	LEU
14	C2	116	VAL
14	C2	119	SER
14	C2	129	GLU
14	C2	132	GLU
14	C2	138	GLU

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Mol	Chain	Res	Type
14	C2	139	HIS
15	C3	3	ARG
15	C3	16	ILE
15	C3	21	ASN
15	C3	27	LYS
15	C3	39	LYS
15	C3	42	ARG
15	C3	45	LEU
15	C3	56	ASP
15	C3	64	ARG
15	C3	66	ILE
15	C3	83	GLU
15	C3	84	ILE
15	C3	88	LEU
15	C3	102	LEU
15	C3	115	LEU
15	C3	125	LEU
15	C3	134	VAL
15	C3	142	GLU
15	C3	145	THR
15	C3	150	VAL
16	C4	13	VAL
16	C4	14	PHE
16	C4	29	HIS
16	C4	31	THR
16	C4	39	ILE
16	C4	43	THR
16	C4	51	ASP
16	C4	81	VAL
16	C4	89	THR
16	C4	92	LYS
16	C4	93	THR
16	C4	102	LEU
16	C4	103	ARG
16	C4	107	ARG
16	C4	108	SER
16	C4	123	SER
16	C4	136	ARG
16	C4	137	LEU
17	C5	11	VAL
17	C5	20	VAL
17	C5	22	LEU

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Mol	Chain	Res	Type
17	C5	26	LEU
17	C5	34	VAL
17	C5	35	LYS
17	C5	36	LEU
17	C5	44	ARG
17	C5	50	THR
17	C5	52	LYS
17	C5	69	GLU
17	C5	86	VAL
17	C5	90	ILE
17	C5	110	GLU
17	C5	121	ILE
17	C5	124	THR
17	C5	128	HIS
18	C6	4	VAL
18	C6	14	LYS
18	C6	26	LYS
18	C6	29	ILE
18	C6	43	ILE
18	C6	52	LEU
18	C6	53	LEU
18	C6	54	LEU
18	C6	57	LEU
18	C6	66	ARG
18	C6	69	VAL
18	C6	90	VAL
18	C6	94	GLN
18	C6	97	VAL
18	C6	98	ASP
18	C6	101	SER
18	C6	106	LYS
18	C6	116	LEU
18	C6	118	ILE
18	C6	123	ARG
18	C6	128	LYS
18	C6	137	ARG
18	C6	141	SER
19	C7	6	THR
19	C7	25	THR
19	C7	29	GLN
19	C7	30	THR
19	C7	34	LEU

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Mol	Chain	Res	Type
19	C7	38	ILE
19	C7	40	THR
19	C7	43	SER
19	C7	46	LEU
19	C7	49	LYS
19	C7	69	ILE
19	C7	72	LYS
19	C7	83	GLN
19	C7	85	VAL
19	C7	88	VAL
19	C7	105	GLN
19	C7	111	LYS
19	C7	113	LEU
19	C7	115	LEU
19	C7	119	LEU
20	C8	3	LEU
20	C8	4	VAL
20	C8	5	VAL
20	C8	8	GLN
20	C8	11	PHE
20	C8	13	HIS
20	C8	14	ILE
20	C8	20	THR
20	C8	21	ASN
20	C8	25	ASN
20	C8	26	ILE
20	C8	28	ILE
20	C8	32	LEU
20	C8	34	THR
20	C8	38	VAL
20	C8	40	ARG
20	C8	46	VAL
20	C8	52	VAL
20	C8	54	LEU
20	C8	60	GLU
20	C8	61	LEU
20	C8	71	GLN
20	C8	77	THR
20	C8	80	LYS
20	C8	81	ILE
20	C8	92	ILE
20	C8	105	VAL

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Mol	Chain	Res	Type
20	C8	107	SER
20	C8	110	ARG
20	C8	116	LEU
20	C8	119	ILE
20	C8	120	ARG
20	C8	132	ARG
20	C8	133	VAL
20	C8	136	GLN
20	C8	138	THR
20	C8	141	THR
20	C8	143	ARG
20	C8	145	ARG
21	C9	4	VAL
21	C9	6	VAL
21	C9	13	ASP
21	C9	22	LEU
21	C9	25	GLN
21	C9	28	LEU
21	C9	30	VAL
21	C9	33	TYR
21	C9	35	ASP
21	C9	36	ILE
21	C9	37	VAL
21	C9	38	LYS
21	C9	57	ARG
21	C9	61	VAL
21	C9	64	HIS
21	C9	67	MET
21	C9	70	GLN
21	C9	94	ILE
21	C9	103	LYS
21	C9	126	GLU
21	C9	131	ASP
21	C9	132	LEU
21	C9	134	ARG
21	C9	135	ILE
21	C9	144	GLU
22	D0	15	GLN
22	D0	17	GLN
22	D0	18	GLN
22	D0	20	ILE
22	D0	21	LYS

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Mol	Chain	Res	Type
22	D0	22	ILE
22	D0	23	ARG
22	D0	27	THR
22	D0	30	LYS
22	D0	31	VAL
22	D0	34	LEU
22	D0	35	GLU
22	D0	41	ILE
22	D0	42	VAL
22	D0	47	GLN
22	D0	48	HIS
22	D0	51	VAL
22	D0	57	ARG
22	D0	60	THR
22	D0	61	LYS
22	D0	74	GLU
22	D0	76	SER
22	D0	89	ARG
22	D0	97	VAL
22	D0	103	ILE
22	D0	108	ILE
22	D0	121	ASN
23	D1	3	ASN
23	D1	5	LYS
23	D1	11	LEU
23	D1	32	VAL
23	D1	38	LYS
23	D1	41	GLU
23	D1	49	GLU
23	D1	52	THR
23	D1	62	ARG
23	D1	65	SER
23	D1	68	SER
23	D1	78	LEU
23	D1	80	LYS
24	D2	4	SER
24	D2	7	LEU
24	D2	24	GLN
24	D2	26	LEU
24	D2	27	ILE
24	D2	43	LYS
24	D2	53	ILE

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Mol	Chain	Res	Type
24	D2	65	LEU
24	D2	74	VAL
24	D2	76	SER
24	D2	86	ILE
24	D2	87	GLU
24	D2	93	LEU
24	D2	97	ARG
24	D2	98	GLN
24	D2	103	ILE
24	D2	104	LEU
24	D2	105	THR
24	D2	121	VAL
24	D2	129	VAL
25	D3	7	ARG
25	D3	9	LEU
25	D3	18	HIS
25	D3	40	SER
25	D3	60	GLU
25	D3	69	ARG
25	D3	73	ARG
25	D3	78	LYS
25	D3	82	LYS
25	D3	83	VAL
25	D3	84	THR
25	D3	96	VAL
25	D3	103	LEU
25	D3	107	PHE
25	D3	110	LYS
25	D3	114	LYS
25	D3	117	ILE
25	D3	131	SER
25	D3	133	LEU
25	D3	144	ARG
26	D4	17	LEU
26	D4	29	HIS
26	D4	32	ARG
26	D4	34	ASN
26	D4	35	VAL
26	D4	36	SER
26	D4	41	ARG
26	D4	47	VAL
26	D4	51	GLU

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Mol	Chain	Res	Type
26	D4	52	LYS
26	D4	57	VAL
26	D4	61	ARG
26	D4	84	LYS
26	D4	88	THR
26	D4	96	LEU
26	D4	99	LYS
26	D4	100	VAL
26	D4	102	LYS
26	D4	121	THR
26	D4	127	LYS
26	D4	128	LYS
27	D5	37	GLN
27	D5	38	HIS
27	D5	40	VAL
27	D5	42	LEU
27	D5	58	ARG
27	D5	62	VAL
27	D5	67	ASP
27	D5	68	ARG
27	D5	69	LEU
27	D5	71	ILE
27	D5	75	LEU
27	D5	85	LYS
27	D5	90	LYS
27	D5	92	ILE
27	D5	93	SER
27	D5	95	HIS
27	D5	96	SER
27	D5	100	ILE
28	D6	12	LYS
28	D6	18	VAL
28	D6	36	ILE
28	D6	41	ILE
28	D6	44	ILE
28	D6	45	VAL
28	D6	50	VAL
28	D6	61	GLU
28	D6	64	LEU
28	D6	66	LYS
28	D6	68	TYR
28	D6	69	ASN

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Mol	Chain	Res	Type
28	D6	70	LYS
28	D6	79	ILE
28	D6	82	ARG
28	D6	83	ILE
28	D6	84	VAL
28	D6	85	ARG
28	D6	86	VAL
28	D6	90	GLU
29	D7	3	LEU
29	D7	4	VAL
29	D7	20	LYS
29	D7	33	LEU
29	D7	61	THR
29	D7	67	THR
30	D8	13	ILE
30	D8	15	VAL
30	D8	19	THR
30	D8	32	PHE
30	D8	33	LEU
30	D8	34	GLU
30	D8	38	ARG
30	D8	39	THR
30	D8	44	VAL
30	D8	52	ASP
30	D8	58	GLU
31	D9	6	VAL
31	D9	9	SER
31	D9	12	ARG
31	D9	19	ARG
31	D9	22	ARG
31	D9	25	SER
31	D9	30	LEU
31	D9	31	ILE
32	E0	14	VAL
32	E0	20	LYS
32	E0	29	LYS
32	E0	39	LEU
32	E0	42	ARG
32	E0	43	ARG
32	E0	47	VAL
32	E0	50	VAL
32	E0	56	MET

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Mol	Chain	Res	Type
33	E1	86	THR
33	E1	91	ILE
33	E1	93	HIS
33	E1	97	LYS
33	E1	98	VAL
33	E1	113	LYS
33	E1	120	GLU
33	E1	126	CYS
33	E1	130	VAL
33	E1	137	ASP
33	E1	139	LEU
33	E1	149	LYS
33	E1	150	VAL
33	E1	151	ASN
34	SR	6	VAL
34	SR	29	GLN
34	SR	46	LYS
34	SR	52	GLN
34	SR	58	VAL
34	SR	59	ARG
34	SR	65	SER
34	SR	66	HIS
34	SR	76	ASP
34	SR	81	LEU
34	SR	98	GLU
34	SR	117	LYS
34	SR	134	TRP
34	SR	136	ILE
34	SR	137	LYS
34	SR	141	LEU
34	SR	144	LEU
34	SR	145	LEU
34	SR	153	GLN
34	SR	165	ASP
34	SR	188	ILE
34	SR	191	ASP
34	SR	238	ASP
34	SR	248	ASN
34	SR	268	GLN
34	SR	300	THR
34	SR	316	MET
34	SR	317	THR

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Mol	Chain	Res	Type
35	SM	27	LYS
35	SM	46	LYS
35	SM	51	ARG
35	SM	61	ILE
35	SM	64	LYS
35	SM	68	ARG
35	SM	78	ASP
35	SM	82	THR
35	SM	84	LYS
35	SM	89	ARG
35	SM	91	THR
35	SM	96	ARG
35	SM	100	THR
35	SM	105	LYS
35	SM	116	GLU
35	SM	130	GLU
35	SM	131	ILE
35	SM	139	GLU
39	L2	14	SER
39	L2	30	ARG
39	L2	32	LEU
39	L2	44	ILE
39	L2	45	VAL
39	L2	72	ARG
39	L2	74	GLU
39	L2	84	THR
39	L2	88	ILE
39	L2	97	ASN
39	L2	101	VAL
39	L2	104	LEU
39	L2	107	VAL
39	L2	109	GLU
39	L2	113	VAL
39	L2	116	VAL
39	L2	134	VAL
39	L2	143	GLU
39	L2	157	VAL
39	L2	165	VAL
39	L2	168	VAL
39	L2	177	LYS
39	L2	179	LEU
39	L2	180	LEU

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Mol	Chain	Res	Type
39	L2	191	LEU
39	L2	202	VAL
39	L2	204	MET
39	L2	207	VAL
39	L2	224	THR
39	L2	225	ILE
39	L2	227	ARG
39	L2	230	VAL
40	L3	2	SER
40	L3	7	GLU
40	L3	17	LEU
40	L3	19	ARG
40	L3	25	ILE
40	L3	30	LYS
40	L3	37	ARG
40	L3	39	LYS
40	L3	41	VAL
40	L3	43	LEU
40	L3	47	LEU
40	L3	55	THR
40	L3	56	ILE
40	L3	70	ARG
40	L3	73	VAL
40	L3	85	VAL
40	L3	93	VAL
40	L3	95	THR
40	L3	103	THR
40	L3	104	THR
40	L3	110	LEU
40	L3	114	VAL
40	L3	126	LYS
40	L3	134	SER
40	L3	139	GLN
40	L3	146	ARG
40	L3	148	LEU
40	L3	150	ARG
40	L3	169	THR
40	L3	173	GLN
40	L3	178	LEU
40	L3	183	LEU
40	L3	187	SER
40	L3	188	ILE

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Mol	Chain	Res	Type
40	L3	192	VAL
40	L3	196	ARG
40	L3	200	GLU
40	L3	202	THR
40	L3	205	VAL
40	L3	208	VAL
40	L3	212	ASN
40	L3	215	ILE
40	L3	229	VAL
40	L3	232	ARG
40	L3	235	THR
40	L3	236	LYS
40	L3	241	LYS
40	L3	244	ARG
40	L3	252	ILE
40	L3	260	VAL
40	L3	282	ILE
40	L3	284	ARG
40	L3	296	THR
40	L3	305	ILE
40	L3	317	ILE
40	L3	319	ASN
40	L3	324	VAL
40	L3	325	LYS
40	L3	328	ILE
40	L3	335	ILE
40	L3	338	LEU
40	L3	347	SER
40	L3	354	VAL
40	L3	355	SER
40	L3	375	GLU
40	L3	380	MET
40	L3	387	LEU
41	L4	22	LEU
41	L4	44	LYS
41	L4	64	SER
41	L4	69	ARG
41	L4	74	ILE
41	L4	93	MET
41	L4	98	ARG
41	L4	99	MET
41	L4	108	LYS

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Mol	Chain	Res	Type
41	L4	112	LYS
41	L4	133	SER
41	L4	138	ARG
41	L4	148	ILE
41	L4	150	LEU
41	L4	152	VAL
41	L4	153	SER
41	L4	156	LEU
41	L4	161	LYS
41	L4	162	THR
41	L4	172	VAL
41	L4	176	SER
41	L4	177	ASP
41	L4	179	LEU
41	L4	187	LEU
41	L4	188	ARG
41	L4	193	LYS
41	L4	200	THR
41	L4	203	ARG
41	L4	206	LEU
41	L4	216	VAL
41	L4	220	ARG
41	L4	222	VAL
41	L4	230	VAL
41	L4	246	ARG
41	L4	258	LEU
41	L4	259	ASP
41	L4	261	VAL
41	L4	267	VAL
41	L4	275	THR
41	L4	278	SER
41	L4	289	ILE
41	L4	306	THR
41	L4	307	GLN
41	L4	313	LEU
41	L4	327	LEU
41	L4	332	LYS
41	L4	341	SER
41	L4	349	THR
41	L4	350	LYS
41	L4	354	VAL
42	L5	5	LYS

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Mol	Chain	Res	Type
42	L5	10	SER
42	L5	22	ARG
42	L5	23	ARG
42	L5	35	ARG
42	L5	41	LYS
42	L5	64	ILE
42	L5	69	ILE
42	L5	89	THR
42	L5	92	LEU
42	L5	93	THR
42	L5	105	ILE
42	L5	115	LEU
42	L5	131	LEU
42	L5	132	THR
42	L5	137	ASP
42	L5	140	ARG
42	L5	144	VAL
42	L5	146	LEU
42	L5	148	ILE
42	L5	151	GLN
42	L5	152	ARG
42	L5	155	THR
42	L5	159	VAL
42	L5	163	LEU
42	L5	164	LYS
42	L5	177	GLU
42	L5	188	GLU
42	L5	189	GLU
42	L5	190	ILE
42	L5	211	LEU
42	L5	222	LEU
42	L5	231	ILE
42	L5	232	ASP
42	L5	257	GLU
42	L5	259	LYS
42	L5	263	GLU
42	L5	264	GLN
42	L5	273	ARG
42	L5	277	LEU
42	L5	293	LEU
43	L6	2	SER
43	L6	5	LYS

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Mol	Chain	Res	Type
43	L6	15	VAL
43	L6	21	THR
43	L6	31	ARG
43	L6	35	VAL
43	L6	52	VAL
43	L6	64	LEU
43	L6	65	ILE
43	L6	70	LYS
43	L6	76	LEU
43	L6	78	ARG
43	L6	79	VAL
43	L6	84	VAL
43	L6	89	THR
43	L6	90	LYS
43	L6	93	VAL
43	L6	98	VAL
43	L6	99	GLU
43	L6	129	GLU
43	L6	130	ILE
43	L6	134	ARG
43	L6	155	LEU
44	L7	24	GLU
44	L7	25	GLN
44	L7	62	ILE
44	L7	82	LYS
44	L7	83	LEU
44	L7	84	VAL
44	L7	87	VAL
44	L7	88	ARG
44	L7	89	ILE
44	L7	92	ILE
44	L7	93	ASN
44	L7	98	LYS
44	L7	100	ARG
44	L7	108	LEU
44	L7	121	LYS
44	L7	124	LEU
44	L7	129	LEU
44	L7	158	LYS
44	L7	173	LEU
44	L7	175	LYS
44	L7	179	LEU

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Mol	Chain	Res	Type
44	L7	184	LEU
44	L7	189	ILE
44	L7	218	ARG
44	L7	234	GLU
44	L7	239	LEU
45	L8	26	LEU
45	L8	27	THR
45	L8	38	GLN
45	L8	41	GLN
45	L8	50	VAL
45	L8	63	LYS
45	L8	74	THR
45	L8	79	GLN
45	L8	81	THR
45	L8	82	LEU
45	L8	84	ARG
45	L8	90	THR
45	L8	92	LYS
45	L8	101	THR
45	L8	116	VAL
45	L8	118	GLU
45	L8	132	VAL
45	L8	136	LEU
45	L8	145	ASN
45	L8	150	LEU
45	L8	156	ASP
45	L8	163	VAL
45	L8	169	LEU
45	L8	180	VAL
45	L8	185	ARG
45	L8	203	VAL
45	L8	206	GLU
45	L8	218	ILE
45	L8	238	LEU
45	L8	240	ASN
45	L8	246	MET
45	L8	251	LYS
46	L9	4	ILE
46	L9	5	GLN
46	L9	9	GLN
46	L9	16	VAL
46	L9	18	VAL

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Mol	Chain	Res	Type
46	L9	20	ILE
46	L9	24	ILE
46	L9	33	THR
46	L9	41	ILE
46	L9	48	VAL
46	L9	49	ASN
46	L9	52	LEU
46	L9	62	ARG
46	L9	65	VAL
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR
46	L9	92	TYR
46	L9	93	VAL
46	L9	104	VAL
46	L9	118	LEU
46	L9	132	VAL
46	L9	134	ILE
46	L9	135	GLU
46	L9	138	THR
46	L9	139	ASN
46	L9	140	VAL
46	L9	147	SER
46	L9	149	ASN
46	L9	151	VAL
46	L9	152	GLU
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	172	ILE
46	L9	173	ARG
46	L9	189	GLU
46	L9	190	ASP
47	M0	3	ARG
47	M0	7	ARG
47	M0	21	ARG
47	M0	24	ARG
47	M0	26	VAL
47	M0	30	LYS
47	M0	31	ILE
47	M0	32	ARG
47	M0	33	ILE

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Mol	Chain	Res	Type
47	M0	40	LYS
47	M0	42	THR
47	M0	48	LEU
47	M0	52	LEU
47	M0	54	SER
47	M0	63	GLU
47	M0	74	LYS
47	M0	87	LEU
47	M0	91	VAL
47	M0	99	ILE
47	M0	116	ARG
47	M0	125	LEU
47	M0	130	ASP
47	M0	133	GLN
47	M0	156	ARG
47	M0	163	GLN
47	M0	165	ILE
47	M0	169	LYS
47	M0	174	THR
47	M0	177	ASP
47	M0	184	LYS
47	M0	192	ASP
47	M0	197	VAL
47	M0	203	LYS
47	M0	207	GLU
47	M0	215	GLU
48	M1	6	GLN
48	M1	9	MET
48	M1	10	ARG
48	M1	11	ASP
48	M1	12	LEU
48	M1	13	LYS
48	M1	19	LEU
48	M1	23	VAL
48	M1	31	THR
48	M1	40	LEU
48	M1	44	THR
48	M1	46	VAL
48	M1	65	ILE
48	M1	70	THR
48	M1	80	LEU
48	M1	94	ARG

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Mol	Chain	Res	Type
48	M1	106	ILE
48	M1	107	ASP
48	M1	115	LYS
48	M1	120	ILE
48	M1	137	ARG
48	M1	138	VAL
48	M1	139	THR
48	M1	140	ARG
48	M1	142	LYS
48	M1	148	VAL
48	M1	166	LYS
48	M1	168	ASP
49	M3	5	LYS
49	M3	23	LYS
49	M3	24	VAL
49	M3	33	VAL
49	M3	46	ILE
49	M3	54	LEU
49	M3	55	ARG
49	M3	57	VAL
49	M3	58	VAL
49	M3	59	ARG
49	M3	63	VAL
49	M3	67	ARG
49	M3	69	VAL
49	M3	85	LEU
49	M3	114	GLN
49	M3	117	LYS
49	M3	121	SER
49	M3	122	LYS
49	M3	124	ILE
49	M3	128	ARG
49	M3	131	LYS
49	M3	136	GLU
49	M3	139	LEU
49	M3	164	GLU
49	M3	171	ARG
49	M3	190	LYS
49	M3	192	GLU
50	M4	8	LYS
50	M4	10	SER
50	M4	11	ASN

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Mol	Chain	Res	Type
50	M4	20	VAL
50	M4	21	VAL
50	M4	23	ILE
50	M4	27	GLN
50	M4	38	ILE
50	M4	50	LYS
50	M4	53	VAL
50	M4	58	ILE
50	M4	63	VAL
50	M4	72	LEU
50	M4	74	ARG
50	M4	82	SER
50	M4	91	CYS
50	M4	92	GLU
50	M4	93	LYS
50	M4	102	LYS
50	M4	105	GLN
50	M4	108	ARG
50	M4	113	THR
50	M4	135	LEU
51	M5	10	LEU
51	M5	15	GLN
51	M5	18	VAL
51	M5	19	LEU
51	M5	20	ARG
51	M5	22	LEU
51	M5	27	VAL
51	M5	49	ARG
51	M5	50	ARG
51	M5	68	ARG
51	M5	75	VAL
51	M5	80	THR
51	M5	83	LYS
51	M5	85	THR
51	M5	92	LEU
51	M5	96	ARG
51	M5	104	GLU
51	M5	106	VAL
51	M5	113	LEU
51	M5	117	ASN
51	M5	133	ILE
51	M5	138	GLN

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Mol	Chain	Res	Type
51	M5	144	ARG
51	M5	151	ILE
51	M5	155	VAL
51	M5	159	ARG
51	M5	182	ASN
51	M5	183	THR
51	M5	187	ARG
51	M5	190	THR
51	M5	196	THR
51	M5	198	SER
51	M5	199	LEU
51	M5	204	LYS
52	M6	22	VAL
52	M6	25	LYS
52	M6	34	VAL
52	M6	41	LEU
52	M6	68	ARG
52	M6	78	ARG
52	M6	79	ILE
52	M6	84	LEU
52	M6	85	ARG
52	M6	89	SER
52	M6	106	GLU
52	M6	116	LYS
52	M6	117	ARG
52	M6	119	VAL
52	M6	124	LEU
52	M6	129	LEU
52	M6	143	THR
52	M6	153	VAL
52	M6	160	ARG
52	M6	162	VAL
52	M6	182	ASN
52	M6	184	THR
52	M6	190	VAL
52	M6	192	LYS
53	M7	7	THR
53	M7	8	SER
53	M7	9	THR
53	M7	24	VAL
53	M7	32	THR
53	M7	36	ILE

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Mol	Chain	Res	Type
53	M7	41	LEU
53	M7	52	LEU
53	M7	56	ARG
53	M7	69	ARG
53	M7	70	THR
53	M7	78	VAL
53	M7	91	VAL
53	M7	111	LYS
53	M7	112	LEU
53	M7	114	VAL
53	M7	115	SER
53	M7	118	GLN
53	M7	119	VAL
53	M7	121	GLN
53	M7	127	ARG
53	M7	129	THR
53	M7	136	ILE
53	M7	144	SER
53	M7	149	VAL
53	M7	151	THR
53	M7	153	LYS
53	M7	155	GLU
53	M7	157	VAL
53	M7	165	VAL
53	M7	168	LEU
53	M7	173	ARG
53	M7	180	LYS
53	M7	181	ARG
54	M8	3	ILE
54	M8	7	SER
54	M8	17	THR
54	M8	22	ASP
54	M8	26	LEU
54	M8	32	LEU
54	M8	39	ARG
54	M8	41	ASP
54	M8	49	LEU
54	M8	69	ARG
54	M8	74	GLU
54	M8	81	VAL
54	M8	98	LYS
54	M8	100	THR

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Mol	Chain	Res	Type
54	M8	105	ARG
54	M8	122	ILE
54	M8	127	LEU
54	M8	135	GLN
54	M8	138	LEU
54	M8	141	ARG
54	M8	161	LYS
54	M8	165	ILE
54	M8	168	THR
54	M8	171	LYS
54	M8	180	ARG
55	M9	10	LEU
55	M9	17	VAL
55	M9	24	LEU
55	M9	25	ASP
55	M9	30	SER
55	M9	31	GLU
55	M9	41	ILE
55	M9	42	ARG
55	M9	43	LYS
55	M9	44	LEU
55	M9	52	LYS
55	M9	55	VAL
55	M9	71	ARG
55	M9	72	GLU
55	M9	74	ARG
55	M9	81	ARG
55	M9	86	GLU
55	M9	91	SER
55	M9	100	ARG
55	M9	103	ARG
55	M9	104	ARG
55	M9	106	LEU
55	M9	115	ILE
55	M9	116	ASP
55	M9	134	HIS
55	M9	138	LEU
55	M9	139	VAL
55	M9	144	GLN
55	M9	155	LEU
55	M9	160	GLU
55	M9	175	GLN

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Mol	Chain	Res	Type
55	M9	177	VAL
55	M9	180	LYS
56	N0	8	GLN
56	N0	12	ARG
56	N0	13	ARG
56	N0	40	ARG
56	N0	45	LEU
56	N0	51	VAL
56	N0	57	GLU
56	N0	58	ILE
56	N0	61	ILE
56	N0	63	GLN
56	N0	71	LYS
56	N0	79	VAL
56	N0	85	SER
56	N0	87	THR
56	N0	103	VAL
56	N0	105	THR
56	N0	106	LEU
56	N0	115	ARG
56	N0	117	ARG
56	N0	123	ILE
56	N0	125	LYS
56	N0	130	GLU
56	N0	137	ARG
56	N0	138	GLN
56	N0	142	GLN
56	N0	144	LEU
56	N0	160	THR
56	N0	162	THR
56	N0	167	ARG
56	N0	171	PHE
56	N0	172	TYR
57	N1	4	SER
57	N1	9	SER
57	N1	14	MET
57	N1	18	ASP
57	N1	25	VAL
57	N1	27	LEU
57	N1	64	VAL
57	N1	68	THR
57	N1	71	SER

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Mol	Chain	Res	Type
57	N1	75	ILE
57	N1	76	ILE
57	N1	78	LYS
57	N1	79	MET
57	N1	80	VAL
57	N1	83	ARG
57	N1	88	ARG
57	N1	89	LEU
57	N1	96	ILE
57	N1	104	GLU
57	N1	106	LEU
57	N1	118	GLU
57	N1	124	VAL
57	N1	126	VAL
57	N1	131	GLN
57	N1	134	GLN
57	N1	139	ARG
57	N1	141	VAL
57	N1	143	THR
57	N1	149	GLN
57	N1	154	VAL
58	N2	10	LYS
58	N2	29	ASP
58	N2	38	ILE
58	N2	39	ASP
58	N2	49	ASN
58	N2	50	LEU
58	N2	52	ASN
58	N2	61	THR
58	N2	66	VAL
58	N2	74	LYS
58	N2	93	ILE
58	N2	100	THR
59	N3	32	ARG
59	N3	48	ARG
59	N3	54	LEU
59	N3	57	MET
59	N3	63	LYS
59	N3	64	LYS
59	N3	72	LYS
59	N3	73	VAL
59	N3	74	MET

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Mol	Chain	Res	Type
59	N3	83	LYS
59	N3	91	VAL
59	N3	102	ILE
59	N3	108	GLU
59	N3	115	THR
59	N3	120	LYS
59	N3	125	LEU
59	N3	135	VAL
60	N4	4	GLU
60	N4	5	ILE
60	N4	19	THR
60	N4	26	SER
60	N4	34	SER
60	N4	39	LEU
60	N4	41	LYS
60	N4	43	ARG
60	N4	54	LEU
60	N4	63	ILE
61	N5	26	VAL
61	N5	27	ARG
61	N5	34	LEU
61	N5	38	LEU
61	N5	39	LYS
61	N5	40	LEU
61	N5	45	LYS
61	N5	49	LYS
61	N5	51	VAL
61	N5	63	ILE
61	N5	71	THR
61	N5	73	MET
61	N5	78	ASP
61	N5	86	VAL
61	N5	92	LYS
61	N5	104	GLU
61	N5	108	LEU
61	N5	109	LYS
61	N5	112	THR
61	N5	115	ARG
61	N5	120	LYS
61	N5	125	ARG
61	N5	127	THR
61	N5	133	LEU

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Mol	Chain	Res	Type
61	N5	135	ILE
61	N5	139	ILE
61	N5	142	ILE
62	N6	3	LYS
62	N6	5	SER
62	N6	8	VAL
62	N6	10	SER
62	N6	13	ARG
62	N6	14	LYS
62	N6	17	LYS
62	N6	26	GLN
62	N6	37	LYS
62	N6	39	LEU
62	N6	42	GLN
62	N6	45	ILE
62	N6	50	ILE
62	N6	56	VAL
62	N6	57	LEU
62	N6	71	SER
62	N6	76	LEU
62	N6	80	VAL
62	N6	94	SER
62	N6	97	ILE
62	N6	105	VAL
62	N6	111	LEU
62	N6	113	LYS
62	N6	115	ARG
62	N6	122	LYS
62	N6	126	LEU
62	N6	127	GLU
63	N7	3	LYS
63	N7	14	VAL
63	N7	17	ARG
63	N7	24	VAL
63	N7	34	LYS
63	N7	46	ILE
63	N7	52	LYS
63	N7	53	VAL
63	N7	54	THR
63	N7	64	LYS
63	N7	75	VAL
63	N7	81	LEU

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Mol	Chain	Res	Type
63	N7	83	THR
63	N7	86	THR
63	N7	90	GLU
63	N7	99	GLU
63	N7	102	GLU
63	N7	103	GLN
63	N7	109	GLU
63	N7	121	ARG
63	N7	127	ASN
63	N7	134	LEU
64	N8	4	ARG
64	N8	6	THR
64	N8	8	THR
64	N8	10	LYS
64	N8	12	ARG
64	N8	16	SER
64	N8	19	LYS
64	N8	34	MET
64	N8	42	ARG
64	N8	46	ASP
64	N8	56	VAL
64	N8	72	VAL
64	N8	76	ASP
64	N8	78	LEU
64	N8	84	GLU
64	N8	91	LEU
64	N8	98	THR
64	N8	115	LYS
64	N8	120	ASN
64	N8	123	VAL
64	N8	130	VAL
64	N8	133	LEU
64	N8	139	ARG
65	N9	18	ARG
65	N9	22	LYS
65	N9	23	LYS
65	N9	25	LYS
65	N9	28	LYS
65	N9	35	VAL
65	N9	50	THR
65	N9	59	LYS
66	O0	16	LEU

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Mol	Chain	Res	Type
66	O0	18	ILE
66	O0	32	LYS
66	O0	34	LEU
66	O0	36	GLN
66	O0	54	SER
66	O0	76	GLU
66	O0	79	THR
66	O0	83	LYS
66	O0	87	VAL
66	O0	100	ILE
66	O0	104	LEU
67	O1	6	ASP
67	O1	8	VAL
67	O1	13	THR
67	O1	16	LEU
67	O1	31	ARG
67	O1	46	THR
67	O1	55	LEU
67	O1	64	VAL
67	O1	73	LEU
67	O1	79	ARG
67	O1	82	GLU
67	O1	84	ASP
67	O1	86	LYS
67	O1	89	LEU
67	O1	96	VAL
67	O1	105	GLN
67	O1	106	THR
68	O2	31	ASN
68	O2	33	ARG
68	O2	44	ARG
68	O2	55	ILE
68	O2	61	LYS
68	O2	62	LYS
68	O2	73	THR
68	O2	75	LEU
68	O2	76	VAL
68	O2	84	THR
68	O2	86	THR
68	O2	103	LYS
68	O2	106	VAL
68	O2	125	ARG

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Mol	Chain	Res	Type
68	O2	128	LEU
69	O3	4	SER
69	O3	15	SER
69	O3	20	LYS
69	O3	22	VAL
69	O3	33	GLU
69	O3	49	ILE
69	O3	59	VAL
69	O3	70	LYS
69	O3	72	THR
69	O3	74	THR
69	O3	78	SER
69	O3	81	VAL
69	O3	86	ARG
69	O3	93	THR
69	O3	98	VAL
69	O3	106	ASN
70	O4	3	GLN
70	O4	5	VAL
70	O4	20	ILE
70	O4	21	LYS
70	O4	24	LYS
70	O4	29	ILE
70	O4	46	ASP
70	O4	49	SER
70	O4	55	SER
70	O4	56	THR
70	O4	57	LEU
70	O4	58	ARG
70	O4	65	VAL
70	O4	71	THR
70	O4	79	SER
70	O4	86	LYS
70	O4	87	GLU
70	O4	100	ILE
70	O4	102	LYS
70	O4	104	VAL
71	O5	4	VAL
71	O5	20	GLN
71	O5	21	LEU
71	O5	22	VAL
71	O5	27	GLU

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Mol	Chain	Res	Type
71	O5	28	LEU
71	O5	31	LEU
71	O5	41	LEU
71	O5	44	ILE
71	O5	45	LYS
71	O5	48	ARG
71	O5	49	LYS
71	O5	71	LYS
71	O5	74	LYS
71	O5	81	ARG
71	O5	89	ARG
71	O5	90	ARG
71	O5	96	GLU
71	O5	100	VAL
71	O5	101	THR
71	O5	104	GLN
71	O5	107	LYS
71	O5	119	LYS
72	O6	5	THR
72	O6	11	LEU
72	O6	17	VAL
72	O6	18	THR
72	O6	21	THR
72	O6	26	ILE
72	O6	36	ARG
72	O6	43	LEU
72	O6	45	ARG
72	O6	57	LEU
72	O6	58	ILE
72	O6	60	LEU
72	O6	68	ARG
72	O6	70	ARG
72	O6	71	LYS
72	O6	72	VAL
72	O6	76	ARG
72	O6	81	THR
72	O6	84	LYS
72	O6	88	GLU
73	O7	14	LYS
73	O7	17	THR
73	O7	24	ARG
73	O7	25	ARG

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Mol	Chain	Res	Type
73	O7	33	THR
73	O7	36	SER
73	O7	44	THR
73	O7	55	ARG
73	O7	59	THR
73	O7	67	LEU
73	O7	80	THR
73	O7	85	LYS
73	O7	87	SER
74	O8	3	ARG
74	O8	5	ILE
74	O8	6	THR
74	O8	8	ILE
74	O8	12	LEU
74	O8	22	THR
74	O8	24	THR
74	O8	41	THR
74	O8	45	VAL
74	O8	50	SER
74	O8	53	THR
74	O8	64	LYS
74	O8	65	LEU
74	O8	67	GLN
74	O8	69	LEU
74	O8	72	THR
74	O8	77	ARG
75	O9	5	LYS
75	O9	21	ARG
75	O9	23	LEU
75	O9	29	LEU
75	O9	45	ARG
75	O9	51	ILE
76	Q0	77	ILE
76	Q0	78	ILE
76	Q0	83	LYS
76	Q0	85	LEU
76	Q0	106	ARG
76	Q0	112	LYS
76	Q0	113	ARG
76	Q0	127	LEU
77	Q1	2	ARG
77	Q1	9	ARG

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Mol	Chain	Res	Type
77	Q1	10	THR
77	Q1	11	ARG
77	Q1	24	SER
77	Q1	25	LYS
78	Q2	8	ARG
78	Q2	9	LYS
78	Q2	26	THR
78	Q2	29	LYS
78	Q2	34	SER
78	Q2	35	LEU
78	Q2	45	ARG
78	Q2	48	SER
78	Q2	55	LYS
78	Q2	61	LYS
78	Q2	76	LYS
78	Q2	78	LYS
78	Q2	79	THR
78	Q2	80	ARG
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	92	GLU
78	Q2	93	LEU
78	Q2	100	LYS
78	Q2	104	LEU
78	Q2	105	GLN
79	Q3	11	THR
79	Q3	16	VAL
79	Q3	32	GLN
79	Q3	45	LYS
79	Q3	49	ARG
79	Q3	56	THR
79	Q3	59	CYS
79	Q3	60	CYS
79	Q3	73	THR
79	Q3	91	GLU
2	s0	6	THR
2	s0	9	LEU
2	s0	12	GLU
2	s0	22	THR
2	s0	24	LEU
2	s0	30	GLN

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Mol	Chain	Res	Type
2	s0	31	VAL
2	s0	45	VAL
2	s0	57	LEU
2	s0	59	LEU
2	s0	62	ARG
2	s0	87	LEU
2	s0	110	TYR
2	s0	111	ILE
2	s0	131	GLN
2	s0	135	GLU
2	s0	139	VAL
2	s0	144	ILE
2	s0	154	GLU
2	s0	157	ASP
2	s0	167	LYS
2	s0	172	LEU
2	s0	180	GLU
2	s0	183	ARG
2	s0	184	LEU
2	s0	185	ARG
2	s0	188	LEU
2	s0	189	VAL
2	s0	196	SER
2	s0	198	MET
2	s0	202	TYR
3	s1	21	VAL
3	s1	22	ASP
3	s1	25	THR
3	s1	37	THR
3	s1	47	LEU
3	s1	48	VAL
3	s1	51	SER
3	s1	62	LYS
3	s1	66	VAL
3	s1	68	VAL
3	s1	70	LEU
3	s1	73	LEU
3	s1	74	GLN
3	s1	81	PHE
3	s1	83	LYS
3	s1	110	LEU
3	s1	115	ARG

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Mol	Chain	Res	Type
3	s1	125	VAL
3	s1	127	VAL
3	s1	137	ILE
3	s1	150	VAL
3	s1	151	LYS
3	s1	173	THR
3	s1	177	GLN
3	s1	179	SER
3	s1	180	THR
3	s1	181	LEU
3	s1	202	LYS
3	s1	209	ASN
3	s1	212	VAL
3	s1	215	VAL
3	s1	217	LEU
3	s1	219	LYS
3	s1	228	LEU
3	s1	234	GLU
4	s2	38	VAL
4	s2	41	LEU
4	s2	53	ILE
4	s2	54	GLU
4	s2	69	ILE
4	s2	70	ASP
4	s2	72	LEU
4	s2	73	LEU
4	s2	76	LEU
4	s2	80	VAL
4	s2	83	ILE
4	s2	87	GLN
4	s2	89	GLN
4	s2	90	THR
4	s2	91	ARG
4	s2	106	ASP
4	s2	111	VAL
4	s2	115	ILE
4	s2	117	THR
4	s2	129	ILE
4	s2	137	ILE
4	s2	139	ILE
4	s2	141	ARG
4	s2	146	THR

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Mol	Chain	Res	Type
4	s2	148	LEU
4	s2	150	GLN
4	s2	164	SER
4	s2	166	THR
4	s2	170	ILE
4	s2	185	LYS
4	s2	194	GLU
4	s2	206	THR
4	s2	207	LEU
4	s2	221	THR
4	s2	225	LEU
4	s2	226	THR
4	s2	229	LEU
4	s2	233	GLN
4	s2	237	VAL
4	s2	240	LEU
4	s2	248	SER
4	s2	250	GLN
5	s3	4	LEU
5	s3	9	ARG
5	s3	26	THR
5	s3	39	VAL
5	s3	41	VAL
5	s3	44	THR
5	s3	53	THR
5	s3	55	THR
5	s3	59	LEU
5	s3	67	ASN
5	s3	69	LEU
5	s3	76	ARG
5	s3	84	ILE
5	s3	86	LEU
5	s3	89	GLU
5	s3	91	VAL
5	s3	93	ASP
5	s3	115	ILE
5	s3	116	ARG
5	s3	127	MET
5	s3	128	GLU
5	s3	142	LEU
5	s3	158	ILE
5	s3	162	GLN

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Mol	Chain	Res	Type
5	s3	168	ILE
5	s3	181	VAL
5	s3	202	LEU
5	s3	204	ASP
5	s3	212	LYS
6	s4	11	ARG
6	s4	23	LEU
6	s4	24	SER
6	s4	26	CYS
6	s4	37	LYS
6	s4	38	LEU
6	s4	42	LEU
6	s4	49	ARG
6	s4	51	ARG
6	s4	56	LEU
6	s4	67	GLN
6	s4	68	ARG
6	s4	78	THR
6	s4	104	ASP
6	s4	116	ASP
6	s4	126	VAL
6	s4	131	LEU
6	s4	139	VAL
6	s4	140	VAL
6	s4	147	ILE
6	s4	148	ARG
6	s4	160	VAL
6	s4	162	ILE
6	s4	163	ASP
6	s4	180	LEU
6	s4	181	VAL
6	s4	182	TYR
6	s4	184	THR
6	s4	196	VAL
6	s4	214	LEU
6	s4	219	VAL
6	s4	221	ARG
6	s4	222	LEU
6	s4	227	VAL
6	s4	236	ILE
6	s4	245	LYS
6	s4	246	LEU

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Mol	Chain	Res	Type
7	s5	24	VAL
7	s5	25	LEU
7	s5	27	THR
7	s5	31	GLU
7	s5	41	LYS
7	s5	45	LYS
7	s5	51	VAL
7	s5	59	VAL
7	s5	63	GLN
7	s5	64	VAL
7	s5	68	ILE
7	s5	76	ARG
7	s5	83	ARG
7	s5	89	ILE
7	s5	93	LEU
7	s5	109	LYS
7	s5	112	ARG
7	s5	119	ASP
7	s5	125	THR
7	s5	146	THR
7	s5	148	ARG
7	s5	149	VAL
7	s5	156	ARG
7	s5	157	ARG
7	s5	162	VAL
7	s5	167	ARG
7	s5	170	GLN
7	s5	187	ILE
7	s5	194	LEU
7	s5	199	ILE
7	s5	203	LYS
7	s5	208	SER
7	s5	213	LYS
7	s5	216	GLU
7	s5	219	ARG
8	s6	12	SER
8	s6	15	THR
8	s6	21	GLU
8	s6	25	ARG
8	s6	30	LYS
8	s6	36	VAL
8	s6	69	LEU

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Mol	Chain	Res	Type
8	s6	71	THR
8	s6	73	ILE
8	s6	76	LEU
8	s6	78	THR
8	s6	93	LYS
8	s6	97	VAL
8	s6	108	VAL
8	s6	109	LEU
8	s6	111	LEU
8	s6	112	VAL
8	s6	115	LYS
8	s6	120	GLU
8	s6	121	LEU
8	s6	127	THR
8	s6	128	THR
8	s6	129	VAL
8	s6	132	ARG
8	s6	137	ARG
8	s6	143	LYS
8	s6	150	GLU
8	s6	151	ASP
8	s6	153	VAL
8	s6	155	ASP
8	s6	169	TYR
8	s6	170	THR
8	s6	171	LYS
8	s6	177	ARG
8	s6	179	VAL
8	s6	212	LEU
8	s6	215	ARG
9	s7	11	GLN
9	s7	28	GLU
9	s7	33	GLU
9	s7	41	LEU
9	s7	49	ILE
9	s7	60	ILE
9	s7	62	VAL
9	s7	67	LEU
9	s7	77	LEU
9	s7	80	GLU
9	s7	81	LEU
9	s7	86	GLN

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Mol	Chain	Res	Type
9	s7	87	ASP
9	s7	91	ILE
9	s7	97	ARG
9	s7	98	ILE
9	s7	105	THR
9	s7	108	GLN
9	s7	109	VAL
9	s7	114	ARG
9	s7	117	THR
9	s7	118	LEU
9	s7	126	LEU
9	s7	130	VAL
9	s7	141	ARG
9	s7	143	LEU
9	s7	144	VAL
9	s7	159	VAL
9	s7	160	GLN
9	s7	166	LEU
9	s7	184	GLU
9	s7	185	ILE
9	s7	187	SER
10	s8	18	ARG
10	s8	25	ARG
10	s8	29	LEU
10	s8	36	THR
10	s8	58	LEU
10	s8	60	ILE
10	s8	61	GLU
10	s8	72	ILE
10	s8	74	LYS
10	s8	76	THR
10	s8	82	VAL
10	s8	111	GLN
10	s8	138	ASN
10	s8	151	LYS
10	s8	152	ILE
10	s8	155	SER
10	s8	168	CYS
10	s8	183	ILE
10	s8	184	LEU
10	s8	199	LYS
11	s9	7	THR

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Mol	Chain	Res	Type
11	s9	9	SER
11	s9	21	SER
11	s9	28	LEU
11	s9	39	LYS
11	s9	78	ARG
11	s9	82	ARG
11	s9	90	LYS
11	s9	93	LEU
11	s9	101	VAL
11	s9	109	LEU
11	s9	110	GLN
11	s9	111	THR
11	s9	120	LYS
11	s9	126	ARG
11	s9	130	THR
11	s9	134	ILE
11	s9	141	VAL
11	s9	142	ASN
11	s9	143	ILE
11	s9	148	VAL
11	s9	150	LEU
11	s9	161	THR
11	s9	171	ARG
80	c0	5	LYS
80	c0	15	LEU
80	c0	20	VAL
80	c0	21	VAL
80	c0	27	PHE
80	c0	33	GLU
80	c0	36	ASP
80	c0	40	LEU
80	c0	47	GLN
80	c0	55	VAL
80	c0	57	THR
80	c0	71	GLU
80	c0	76	LEU
80	c0	77	ARG
13	c1	3	THR
13	c1	5	LEU
13	c1	10	GLU
13	c1	21	ASN
13	c1	27	THR

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Mol	Chain	Res	Type
13	c1	30	ARG
13	c1	32	LYS
13	c1	33	ARG
13	c1	40	LEU
13	c1	44	THR
13	c1	47	THR
13	c1	56	LYS
13	c1	60	PHE
13	c1	61	THR
13	c1	74	THR
13	c1	77	SER
13	c1	78	THR
13	c1	80	MET
13	c1	83	THR
13	c1	86	ILE
13	c1	94	ILE
13	c1	99	ARG
13	c1	109	VAL
13	c1	111	VAL
13	c1	118	GLN
13	c1	123	VAL
13	c1	125	VAL
13	c1	129	ARG
13	c1	140	VAL
81	c2	28	LEU
81	c2	36	LEU
81	c2	39	ASP
81	c2	43	ARG
81	c2	58	LEU
81	c2	59	LEU
81	c2	61	VAL
81	c2	62	LEU
81	c2	66	VAL
81	c2	71	ILE
81	c2	74	LEU
81	c2	83	GLU
81	c2	85	LYS
81	c2	89	ILE
81	c2	91	VAL
81	c2	103	LEU
81	c2	116	VAL
81	c2	120	VAL

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Mol	Chain	Res	Type
81	c2	121	VAL
81	c2	132	GLU
81	c2	136	ILE
81	c2	140	PHE
15	c3	16	ILE
15	c3	20	ARG
15	c3	21	ASN
15	c3	28	LEU
15	c3	33	VAL
15	c3	35	GLU
15	c3	37	ILE
15	c3	39	LYS
15	c3	60	VAL
15	c3	66	ILE
15	c3	67	THR
15	c3	80	LEU
15	c3	84	ILE
15	c3	87	ASP
15	c3	96	VAL
15	c3	97	SER
15	c3	104	ARG
15	c3	106	ARG
15	c3	115	LEU
15	c3	125	LEU
15	c3	131	THR
15	c3	134	VAL
15	c3	138	ASN
15	c3	150	VAL
16	c4	13	VAL
16	c4	28	VAL
16	c4	31	THR
16	c4	33	LEU
16	c4	42	VAL
16	c4	43	THR
16	c4	51	ASP
16	c4	61	MET
16	c4	62	LEU
16	c4	66	ASP
16	c4	70	LYS
16	c4	79	VAL
16	c4	81	VAL
16	c4	92	LYS

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Mol	Chain	Res	Type
16	c4	102	LEU
16	c4	103	ARG
16	c4	114	ARG
16	c4	118	VAL
16	c4	119	THR
16	c4	121	VAL
16	c4	123	SER
16	c4	124	ASP
16	c4	125	SER
16	c4	129	LYS
16	c4	133	ARG
16	c4	136	ARG
16	c4	137	LEU
82	c5	12	PHE
82	c5	21	ASP
82	c5	24	LYS
82	c5	36	LEU
82	c5	52	LYS
82	c5	69	GLU
82	c5	71	GLU
82	c5	85	ILE
82	c5	107	ILE
82	c5	110	GLU
82	c5	120	SER
82	c5	121	ILE
82	c5	122	THR
82	c5	124	THR
82	c5	127	ARG
18	c6	7	VAL
18	c6	17	THR
18	c6	28	LEU
18	c6	36	ILE
18	c6	43	ILE
18	c6	48	VAL
18	c6	53	LEU
18	c6	57	LEU
18	c6	63	ILE
18	c6	68	ARG
18	c6	69	VAL
18	c6	70	THR
18	c6	90	VAL
18	c6	97	VAL

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Mol	Chain	Res	Type
18	c6	98	ASP
18	c6	110	THR
18	c6	114	ARG
18	c6	128	LYS
18	c6	137	ARG
19	c7	8	THR
19	c7	19	ARG
19	c7	29	GLN
19	c7	30	THR
19	c7	34	LEU
19	c7	38	ILE
19	c7	45	ARG
19	c7	46	LEU
19	c7	66	VAL
19	c7	69	ILE
19	c7	83	GLN
19	c7	85	VAL
19	c7	88	VAL
19	c7	89	SER
19	c7	113	LEU
20	c8	3	LEU
20	c8	4	VAL
20	c8	5	VAL
20	c8	6	GLN
20	c8	13	HIS
20	c8	15	LEU
20	c8	25	ASN
20	c8	27	LYS
20	c8	28	ILE
20	c8	36	LYS
20	c8	40	ARG
20	c8	55	HIS
20	c8	61	LEU
20	c8	63	GLN
20	c8	94	ASP
20	c8	104	ASN
20	c8	105	VAL
20	c8	116	LEU
20	c8	119	ILE
20	c8	133	VAL
20	c8	136	GLN
20	c8	138	THR

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Mol	Chain	Res	Type
20	c8	143	ARG
20	c8	144	ARG
21	c9	6	VAL
21	c9	13	ASP
21	c9	27	LYS
21	c9	28	LEU
21	c9	34	VAL
21	c9	37	VAL
21	c9	68	ARG
21	c9	70	GLN
21	c9	71	VAL
21	c9	75	LYS
21	c9	111	ILE
21	c9	116	ILE
21	c9	123	ARG
21	c9	132	LEU
21	c9	135	ILE
21	c9	140	LEU
21	c9	141	GLU
21	c9	144	GLU
22	d0	13	GLU
22	d0	22	ILE
22	d0	23	ARG
22	d0	27	THR
22	d0	31	VAL
22	d0	34	LEU
22	d0	44	ASN
22	d0	47	GLN
22	d0	51	VAL
22	d0	52	LYS
22	d0	57	ARG
22	d0	60	THR
22	d0	63	LEU
22	d0	66	SER
22	d0	70	THR
22	d0	74	GLU
22	d0	81	THR
22	d0	88	LYS
22	d0	89	ARG
22	d0	97	VAL
22	d0	99	ILE
22	d0	102	ARG

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Mol	Chain	Res	Type
22	d0	103	ILE
22	d0	105	GLN
22	d0	107	THR
22	d0	108	ILE
22	d0	115	GLU
22	d0	116	VAL
22	d0	118	VAL
23	d1	2	GLU
23	d1	5	LYS
23	d1	11	LEU
23	d1	12	TYR
23	d1	25	LYS
23	d1	32	VAL
23	d1	38	LYS
23	d1	41	GLU
23	d1	50	TYR
23	d1	52	THR
23	d1	68	SER
23	d1	69	LEU
23	d1	70	ASN
23	d1	78	LEU
23	d1	81	ASN
24	d2	4	SER
24	d2	7	LEU
24	d2	65	LEU
24	d2	74	VAL
24	d2	88	LYS
24	d2	93	LEU
24	d2	98	GLN
24	d2	103	ILE
24	d2	124	LYS
24	d2	126	LEU
25	d3	9	LEU
25	d3	16	ARG
25	d3	19	ARG
25	d3	23	ARG
25	d3	33	LEU
25	d3	40	SER
25	d3	56	LYS
25	d3	69	ARG
25	d3	73	ARG
25	d3	83	VAL

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Mol	Chain	Res	Type
25	d3	84	THR
25	d3	96	VAL
25	d3	100	ASP
25	d3	107	PHE
25	d3	127	VAL
26	d4	10	ARG
26	d4	13	ILE
26	d4	14	SER
26	d4	26	ASP
26	d4	29	HIS
26	d4	34	ASN
26	d4	35	VAL
26	d4	39	GLU
26	d4	42	GLU
26	d4	44	LEU
26	d4	47	VAL
26	d4	49	LYS
26	d4	51	GLU
26	d4	55	VAL
26	d4	62	THR
26	d4	81	GLU
26	d4	88	THR
26	d4	105	ARG
26	d4	116	LYS
26	d4	118	ILE
26	d4	128	LYS
27	d5	41	ILE
27	d5	43	ASP
27	d5	46	LYS
27	d5	51	LEU
27	d5	53	GLU
27	d5	57	TYR
27	d5	60	VAL
27	d5	81	ARG
27	d5	86	GLU
27	d5	88	ILE
27	d5	90	LYS
27	d5	97	LYS
27	d5	105	THR
28	d6	24	VAL
28	d6	28	LYS
28	d6	41	ILE

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Mol	Chain	Res	Type
28	d6	44	ILE
28	d6	53	LEU
28	d6	58	VAL
28	d6	67	THR
28	d6	82	ARG
28	d6	84	VAL
28	d6	85	ARG
28	d6	88	SER
28	d6	90	GLU
29	d7	11	THR
29	d7	17	ARG
29	d7	41	LEU
29	d7	43	ILE
29	d7	44	THR
29	d7	52	THR
29	d7	61	THR
29	d7	72	LYS
29	d7	77	THR
29	d7	81	ARG
29	d7	82	LYS
30	d8	7	VAL
30	d8	14	LYS
30	d8	15	VAL
30	d8	16	LEU
30	d8	19	THR
30	d8	22	ARG
30	d8	28	VAL
30	d8	32	PHE
30	d8	33	LEU
30	d8	36	THR
30	d8	40	ILE
30	d8	42	ARG
30	d8	44	VAL
30	d8	49	ARG
30	d8	54	LEU
30	d8	62	GLU
30	d8	64	ARG
31	d9	10	HIS
31	d9	16	LYS
31	d9	28	THR
31	d9	30	LEU
31	d9	32	ARG

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Mol	Chain	Res	Type
31	d9	36	LEU
31	d9	38	ILE
31	d9	54	LYS
32	e0	13	LYS
32	e0	22	GLU
32	e0	23	LYS
32	e0	26	LYS
32	e0	28	LYS
32	e0	29	LYS
32	e0	39	LEU
32	e0	45	VAL
32	e0	47	VAL
32	e0	49	LEU
32	e0	50	VAL
32	e0	54	ARG
32	e0	55	ARG
32	e0	56	MET
33	e1	86	THR
33	e1	90	LYS
33	e1	96	LYS
33	e1	97	LYS
33	e1	98	VAL
33	e1	102	VAL
33	e1	106	TYR
33	e1	107	LYS
33	e1	113	LYS
33	e1	115	THR
33	e1	116	LYS
33	e1	120	GLU
33	e1	135	HIS
33	e1	141	CYS
33	e1	146	SER
33	e1	147	VAL
33	e1	151	ASN
83	sR	22	SER
83	sR	29	GLN
83	sR	52	GLN
83	sR	58	VAL
83	sR	64	HIS
83	sR	65	SER
83	sR	76	ASP
83	sR	96	THR

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Mol	Chain	Res	Type
83	sR	106	HIS
83	sR	121	MET
83	sR	145	LEU
83	sR	168	THR
83	sR	176	LYS
83	sR	183	LEU
83	sR	188	ILE
83	sR	199	ILE
83	sR	228	LYS
83	sR	232	TYR
83	sR	274	LEU
83	sR	297	ASP
83	sR	309	VAL
83	sR	312	VAL
84	sM	23	LYS
84	sM	24	GLU
84	sM	30	THR
84	sM	33	LYS
84	sM	41	SER
84	sM	43	ASP
84	sM	48	ARG
84	sM	50	ASN
84	sM	61	ILE
84	sM	74	LYS
84	sM	75	ASP
84	sM	76	VAL
84	sM	77	THR
84	sM	82	THR
39	l2	15	ILE
39	l2	19	HIS
39	l2	23	ARG
39	l2	32	LEU
39	l2	44	ILE
39	l2	45	VAL
39	l2	46	LYS
39	l2	61	VAL
39	l2	62	VAL
39	l2	71	LEU
39	l2	74	GLU
39	l2	84	THR
39	l2	96	LEU
39	l2	101	VAL

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Mol	Chain	Res	Type
39	l2	104	LEU
39	l2	107	VAL
39	l2	109	GLU
39	l2	112	ILE
39	l2	113	VAL
39	l2	114	SER
39	l2	119	LYS
39	l2	128	ARG
39	l2	134	VAL
39	l2	137	ILE
39	l2	147	ARG
39	l2	155	LYS
39	l2	157	VAL
39	l2	158	ILE
39	l2	159	SER
39	l2	165	VAL
39	l2	169	ILE
39	l2	180	LEU
39	l2	193	ARG
39	l2	202	VAL
39	l2	204	MET
39	l2	226	SER
39	l2	230	VAL
39	l2	246	LEU
40	l3	3	HIS
40	l3	5	LYS
40	l3	7	GLU
40	l3	10	ARG
40	l3	17	LEU
40	l3	19	ARG
40	l3	21	ARG
40	l3	24	SER
40	l3	25	ILE
40	l3	30	LYS
40	l3	37	ARG
40	l3	41	VAL
40	l3	47	LEU
40	l3	50	LYS
40	l3	56	ILE
40	l3	70	ARG
40	l3	73	VAL
40	l3	79	VAL

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Mol	Chain	Res	Type
40	l3	84	VAL
40	l3	85	VAL
40	l3	86	VAL
40	l3	95	THR
40	l3	103	THR
40	l3	114	VAL
40	l3	125	SER
40	l3	139	GLN
40	l3	146	ARG
40	l3	148	LEU
40	l3	169	THR
40	l3	183	LEU
40	l3	184	ASN
40	l3	187	SER
40	l3	188	ILE
40	l3	192	VAL
40	l3	196	ARG
40	l3	202	THR
40	l3	205	VAL
40	l3	211	GLN
40	l3	212	ASN
40	l3	213	GLU
40	l3	232	ARG
40	l3	235	THR
40	l3	238	LEU
40	l3	246	LEU
40	l3	252	ILE
40	l3	260	VAL
40	l3	261	MET
40	l3	270	ARG
40	l3	274	SER
40	l3	284	ARG
40	l3	287	LYS
40	l3	304	THR
40	l3	308	MET
40	l3	317	ILE
40	l3	324	VAL
40	l3	328	ILE
40	l3	338	LEU
40	l3	340	LYS
40	l3	346	THR
40	l3	347	SER

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Mol	Chain	Res	Type
40	l3	355	SER
40	l3	367	LYS
40	l3	380	MET
40	l3	382	THR
41	l4	2	SER
41	l4	3	ARG
41	l4	6	VAL
41	l4	25	VAL
41	l4	41	SER
41	l4	47	ARG
41	l4	69	ARG
41	l4	71	VAL
41	l4	73	ARG
41	l4	85	SER
41	l4	93	MET
41	l4	98	ARG
41	l4	118	LYS
41	l4	122	THR
41	l4	138	ARG
41	l4	144	LYS
41	l4	145	ILE
41	l4	150	LEU
41	l4	151	VAL
41	l4	154	THR
41	l4	156	LEU
41	l4	160	GLN
41	l4	170	LYS
41	l4	172	VAL
41	l4	176	SER
41	l4	177	ASP
41	l4	179	LEU
41	l4	182	LEU
41	l4	186	LYS
41	l4	187	LEU
41	l4	191	LYS
41	l4	203	ARG
41	l4	206	LEU
41	l4	220	ARG
41	l4	222	VAL
41	l4	230	VAL
41	l4	246	ARG
41	l4	258	LEU

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Mol	Chain	Res	Type
41	l4	261	VAL
41	l4	266	THR
41	l4	267	VAL
41	l4	286	VAL
41	l4	287	THR
41	l4	300	ARG
41	l4	301	PRO
41	l4	304	GLN
41	l4	306	THR
41	l4	307	GLN
41	l4	313	LEU
41	l4	316	ASN
41	l4	319	LYS
41	l4	323	VAL
41	l4	327	LEU
41	l4	342	LYS
41	l4	345	GLU
41	l4	347	THR
41	l4	349	THR
41	l4	356	THR
41	l4	359	LEU
42	l5	4	GLN
42	l5	5	LYS
42	l5	13	SER
42	l5	25	GLU
42	l5	34	LYS
42	l5	35	ARG
42	l5	41	LYS
42	l5	51	LEU
42	l5	61	ILE
42	l5	62	CYS
42	l5	65	ILE
42	l5	66	SER
42	l5	70	THR
42	l5	73	VAL
42	l5	74	VAL
42	l5	93	THR
42	l5	110	LEU
42	l5	112	LYS
42	l5	113	LEU
42	l5	115	LEU
42	l5	118	THR

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Mol	Chain	Res	Type
42	l5	130	GLU
42	l5	131	LEU
42	l5	133	GLU
42	l5	136	GLU
42	l5	140	ARG
42	l5	144	VAL
42	l5	146	LEU
42	l5	148	ILE
42	l5	152	ARG
42	l5	155	THR
42	l5	164	LYS
42	l5	185	PHE
42	l5	186	GLU
42	l5	189	GLU
42	l5	190	ILE
42	l5	194	LEU
42	l5	211	LEU
42	l5	218	ARG
42	l5	227	LEU
42	l5	254	LYS
42	l5	258	LYS
42	l5	259	LYS
42	l5	268	GLU
42	l5	273	ARG
42	l5	282	ARG
42	l5	293	LEU
43	l6	8	LYS
43	l6	20	LYS
43	l6	21	THR
43	l6	46	ARG
43	l6	50	LYS
43	l6	52	VAL
43	l6	64	LEU
43	l6	65	ILE
43	l6	79	VAL
43	l6	89	THR
43	l6	91	VAL
43	l6	93	VAL
43	l6	98	VAL
43	l6	109	GLU
43	l6	131	LYS
43	l6	152	THR

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Mol	Chain	Res	Type
43	l6	155	LEU
43	l6	162	SER
43	l6	173	MET
43	l6	175	LYS
44	l7	22	THR
44	l7	26	VAL
44	l7	41	ARG
44	l7	53	LYS
44	l7	60	ARG
44	l7	77	VAL
44	l7	80	GLN
44	l7	83	LEU
44	l7	84	VAL
44	l7	87	VAL
44	l7	88	ARG
44	l7	98	LYS
44	l7	101	LYS
44	l7	110	ARG
44	l7	115	THR
44	l7	121	LYS
44	l7	130	ILE
44	l7	156	ILE
44	l7	158	LYS
44	l7	173	LEU
44	l7	175	LYS
44	l7	179	LEU
44	l7	184	LEU
44	l7	196	LYS
44	l7	229	PHE
44	l7	239	LEU
85	l8	26	LEU
85	l8	68	ARG
85	l8	74	THR
85	l8	79	GLN
85	l8	81	THR
85	l8	92	LYS
85	l8	95	ASN
85	l8	136	LEU
85	l8	146	LYS
85	l8	149	LYS
85	l8	150	LEU
85	l8	160	ILE

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Mol	Chain	Res	Type
85	l8	163	VAL
85	l8	169	LEU
85	l8	172	LYS
85	l8	180	VAL
85	l8	183	LYS
85	l8	200	LEU
85	l8	203	VAL
85	l8	208	GLU
85	l8	211	LEU
85	l8	214	LEU
85	l8	216	SER
85	l8	217	THR
85	l8	218	ILE
85	l8	230	LYS
85	l8	238	LEU
85	l8	241	LYS
85	l8	245	LYS
85	l8	248	LYS
46	l9	4	ILE
46	l9	6	THR
46	l9	18	VAL
46	l9	19	SER
46	l9	22	SER
46	l9	33	THR
46	l9	34	LEU
46	l9	39	LYS
46	l9	44	THR
46	l9	48	VAL
46	l9	55	VAL
46	l9	62	ARG
46	l9	68	LEU
46	l9	69	ARG
46	l9	70	THR
46	l9	80	THR
46	l9	82	VAL
46	l9	90	MET
46	l9	92	TYR
46	l9	93	VAL
46	l9	104	VAL
46	l9	105	GLU
46	l9	120	ASP
46	l9	129	ARG

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Mol	Chain	Res	Type
46	l9	130	ASP
46	l9	132	VAL
46	l9	133	THR
46	l9	137	SER
46	l9	138	THR
46	l9	140	VAL
46	l9	144	ILE
46	l9	151	VAL
46	l9	152	GLU
46	l9	161	LEU
46	l9	162	GLN
46	l9	163	GLN
46	l9	166	ARG
46	l9	167	VAL
46	l9	170	LYS
46	l9	173	ARG
46	l9	179	ILE
46	l9	184	LYS
46	l9	191	LEU
47	m0	19	LYS
47	m0	24	ARG
47	m0	26	VAL
47	m0	36	LEU
47	m0	50	VAL
47	m0	52	LEU
47	m0	58	GLU
47	m0	63	GLU
47	m0	76	MET
47	m0	83	ASP
47	m0	87	LEU
47	m0	91	VAL
47	m0	99	ILE
47	m0	101	LYS
47	m0	133	GLN
47	m0	143	SER
47	m0	144	ASN
47	m0	148	VAL
47	m0	149	VAL
47	m0	153	ARG
47	m0	154	ARG
47	m0	162	GLN
47	m0	163	GLN

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Mol	Chain	Res	Type
47	m0	169	LYS
47	m0	176	LEU
47	m0	177	ASP
47	m0	178	ARG
47	m0	182	LEU
47	m0	183	LYS
47	m0	197	VAL
47	m0	200	LEU
47	m0	208	ASN
47	m0	211	ARG
47	m0	212	GLU
47	m0	215	GLU
47	m0	217	PHE
48	m1	10	ARG
48	m1	12	LEU
48	m1	13	LYS
48	m1	16	LYS
48	m1	31	THR
48	m1	34	SER
48	m1	35	LYS
48	m1	40	LEU
48	m1	44	THR
48	m1	46	VAL
48	m1	54	VAL
48	m1	59	ILE
48	m1	80	LEU
48	m1	85	LYS
48	m1	101	ASN
48	m1	106	ILE
48	m1	107	ASP
48	m1	108	GLU
48	m1	112	LEU
48	m1	122	ILE
48	m1	129	VAL
48	m1	130	VAL
48	m1	152	HIS
48	m1	156	LYS
48	m1	159	THR
48	m1	160	VAL
48	m1	171	VAL
49	m3	13	HIS
49	m3	54	LEU

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Mol	Chain	Res	Type
49	m3	57	VAL
49	m3	58	VAL
49	m3	63	VAL
49	m3	67	ARG
49	m3	69	VAL
49	m3	73	ARG
49	m3	76	THR
49	m3	85	LEU
49	m3	100	ARG
49	m3	104	ARG
49	m3	107	GLU
49	m3	123	ILE
49	m3	131	LYS
49	m3	149	GLN
49	m3	152	THR
49	m3	164	GLU
49	m3	168	ARG
49	m3	171	ARG
49	m3	176	GLU
49	m3	184	GLU
49	m3	189	GLU
49	m3	194	GLU
50	m4	3	THR
50	m4	6	ILE
50	m4	16	GLU
50	m4	20	VAL
50	m4	21	VAL
50	m4	27	GLN
50	m4	28	SER
50	m4	43	LYS
50	m4	63	VAL
50	m4	64	VAL
50	m4	66	THR
50	m4	69	THR
50	m4	72	LEU
50	m4	80	THR
50	m4	90	VAL
50	m4	92	GLU
50	m4	98	SER
50	m4	106	ARG
50	m4	108	ARG
50	m4	124	ARG

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Mol	Chain	Res	Type
50	m4	128	ARG
50	m4	130	THR
50	m4	135	LEU
51	m5	5	LYS
51	m5	8	GLU
51	m5	10	LEU
51	m5	15	GLN
51	m5	18	VAL
51	m5	22	LEU
51	m5	24	ARG
51	m5	49	ARG
51	m5	75	VAL
51	m5	76	PRO
51	m5	80	THR
51	m5	83	LYS
51	m5	85	THR
51	m5	97	SER
51	m5	105	ARG
51	m5	106	VAL
51	m5	113	LEU
51	m5	138	GLN
51	m5	142	ILE
51	m5	153	ASP
51	m5	155	VAL
51	m5	170	LYS
51	m5	174	ILE
51	m5	175	ASN
51	m5	176	LYS
51	m5	183	THR
51	m5	190	THR
52	m6	6	VAL
52	m6	22	VAL
52	m6	25	LYS
52	m6	34	VAL
52	m6	41	LEU
52	m6	58	LEU
52	m6	67	THR
52	m6	78	ARG
52	m6	85	ARG
52	m6	100	GLU
52	m6	106	GLU
52	m6	108	ILE

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Mol	Chain	Res	Type
52	m6	110	PRO
52	m6	117	ARG
52	m6	118	VAL
52	m6	119	VAL
52	m6	124	LEU
52	m6	126	VAL
52	m6	130	LYS
52	m6	134	LYS
52	m6	160	ARG
52	m6	171	LYS
52	m6	175	THR
52	m6	180	SER
52	m6	182	ASN
52	m6	184	THR
53	m7	7	THR
53	m7	8	SER
53	m7	9	THR
53	m7	13	LYS
53	m7	23	ARG
53	m7	24	VAL
53	m7	32	THR
53	m7	41	LEU
53	m7	52	LEU
53	m7	65	SER
53	m7	69	ARG
53	m7	79	THR
53	m7	80	LYS
53	m7	94	LEU
53	m7	107	LEU
53	m7	112	LEU
53	m7	114	VAL
53	m7	119	VAL
53	m7	126	ARG
53	m7	128	ARG
53	m7	136	ILE
53	m7	144	SER
53	m7	148	LEU
53	m7	149	VAL
53	m7	150	VAL
53	m7	155	GLU
54	m8	3	ILE
54	m8	7	SER

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Mol	Chain	Res	Type
54	m8	12	ARG
54	m8	17	THR
54	m8	21	SER
54	m8	24	VAL
54	m8	26	LEU
54	m8	31	LYS
54	m8	32	LEU
54	m8	34	THR
54	m8	39	ARG
54	m8	41	ASP
54	m8	49	LEU
54	m8	53	PHE
54	m8	57	ILE
54	m8	64	VAL
54	m8	69	ARG
54	m8	80	THR
54	m8	81	VAL
54	m8	93	ILE
54	m8	100	THR
54	m8	111	ARG
54	m8	113	LYS
54	m8	127	LEU
54	m8	129	VAL
54	m8	135	GLN
54	m8	138	LEU
54	m8	140	LEU
54	m8	147	ARG
54	m8	150	VAL
54	m8	165	ILE
54	m8	166	LEU
54	m8	170	ARG
55	m9	7	GLN
55	m9	9	ARG
55	m9	10	LEU
55	m9	17	VAL
55	m9	20	ARG
55	m9	29	THR
55	m9	36	ASN
55	m9	43	LYS
55	m9	49	THR
55	m9	55	VAL
55	m9	56	THR

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Mol	Chain	Res	Type
55	m9	62	ARG
55	m9	63	THR
55	m9	70	LYS
55	m9	74	ARG
55	m9	88	ARG
55	m9	99	LEU
55	m9	101	VAL
55	m9	105	LEU
55	m9	106	LEU
55	m9	108	LYS
55	m9	126	GLU
55	m9	127	SER
55	m9	128	LYS
55	m9	133	LYS
55	m9	138	LEU
55	m9	152	GLU
55	m9	153	LYS
55	m9	158	GLU
55	m9	164	LEU
55	m9	171	ASP
55	m9	173	ARG
55	m9	180	LYS
56	n0	13	ARG
56	n0	17	GLU
56	n0	21	GLU
56	n0	23	LYS
56	n0	40	ARG
56	n0	45	LEU
56	n0	50	LYS
56	n0	51	VAL
56	n0	58	ILE
56	n0	73	LYS
56	n0	80	ARG
56	n0	97	VAL
56	n0	100	VAL
56	n0	104	GLU
56	n0	117	ARG
56	n0	130	GLU
56	n0	132	THR
56	n0	136	LYS
56	n0	137	ARG
56	n0	148	LEU

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Mol	Chain	Res	Type
56	n0	155	ARG
56	n0	162	THR
56	n0	166	LYS
56	n0	172	TYR
57	n1	12	ARG
57	n1	25	VAL
57	n1	26	HIS
57	n1	27	LEU
57	n1	35	LYS
57	n1	36	VAL
57	n1	60	LYS
57	n1	64	VAL
57	n1	68	THR
57	n1	69	LYS
57	n1	71	SER
57	n1	75	ILE
57	n1	78	LYS
57	n1	80	VAL
57	n1	83	ARG
57	n1	86	GLU
57	n1	88	ARG
57	n1	89	LEU
57	n1	96	ILE
57	n1	102	ARG
57	n1	104	GLU
57	n1	118	GLU
57	n1	126	VAL
57	n1	129	LYS
57	n1	130	ARG
57	n1	131	GLN
57	n1	135	PRO
57	n1	139	ARG
57	n1	141	VAL
57	n1	143	THR
57	n1	149	GLN
57	n1	150	THR
57	n1	154	VAL
57	n1	160	ILE
58	n2	13	LYS
58	n2	14	THR
58	n2	21	SER
58	n2	27	VAL

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Mol	Chain	Res	Type
58	n2	37	LEU
58	n2	38	ILE
58	n2	39	ASP
58	n2	43	VAL
58	n2	50	LEU
58	n2	54	VAL
58	n2	57	THR
58	n2	58	GLU
58	n2	62	VAL
58	n2	63	VAL
58	n2	66	VAL
58	n2	68	THR
58	n2	90	ARG
58	n2	98	THR
58	n2	105	LEU
59	n3	7	GLN
59	n3	13	ILE
59	n3	14	SER
59	n3	46	LEU
59	n3	48	ARG
59	n3	58	VAL
59	n3	64	LYS
59	n3	74	MET
59	n3	88	ARG
59	n3	91	VAL
59	n3	102	ILE
59	n3	110	LYS
59	n3	115	THR
59	n3	120	LYS
59	n3	125	LEU
59	n3	135	VAL
87	n4	7	SER
87	n4	17	ARG
87	n4	19	THR
87	n4	39	LEU
87	n4	63	ILE
87	n4	82	ILE
87	n4	89	LEU
87	n4	95	SER
87	n4	96	LEU
87	n4	100	VAL
87	n4	107	GLU

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Mol	Chain	Res	Type
87	n4	126	GLU
87	n4	127	LYS
61	n5	24	LEU
61	n5	27	ARG
61	n5	33	ARG
61	n5	34	LEU
61	n5	37	THR
61	n5	38	LEU
61	n5	39	LYS
61	n5	40	LEU
61	n5	51	VAL
61	n5	56	ARG
61	n5	63	ILE
61	n5	71	THR
61	n5	73	MET
61	n5	86	VAL
61	n5	108	LEU
61	n5	109	LYS
61	n5	115	ARG
61	n5	125	ARG
61	n5	133	LEU
61	n5	135	ILE
61	n5	142	ILE
62	n6	4	GLN
62	n6	8	VAL
62	n6	12	ARG
62	n6	13	ARG
62	n6	14	LYS
62	n6	17	LYS
62	n6	37	LYS
62	n6	39	LEU
62	n6	40	ARG
62	n6	45	ILE
62	n6	50	ILE
62	n6	52	ARG
62	n6	56	VAL
62	n6	57	LEU
62	n6	64	LYS
62	n6	66	GLN
62	n6	70	ILE
62	n6	71	SER
62	n6	76	LEU

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Mol	Chain	Res	Type
62	n6	77	LYS
62	n6	80	VAL
62	n6	83	ASP
62	n6	87	LYS
62	n6	90	VAL
62	n6	94	SER
62	n6	97	ILE
62	n6	102	SER
62	n6	107	THR
62	n6	115	ARG
62	n6	120	GLN
62	n6	127	GLU
63	n7	3	LYS
63	n7	17	ARG
63	n7	24	VAL
63	n7	26	VAL
63	n7	33	SER
63	n7	34	LYS
63	n7	46	ILE
63	n7	52	LYS
63	n7	53	VAL
63	n7	72	ILE
63	n7	73	LYS
63	n7	75	VAL
63	n7	81	LEU
63	n7	83	THR
63	n7	86	THR
63	n7	95	VAL
63	n7	100	THR
63	n7	102	GLU
63	n7	103	GLN
63	n7	105	SER
63	n7	106	GLN
63	n7	121	ARG
63	n7	126	LYS
63	n7	127	ASN
63	n7	134	LEU
63	n7	135	ARG
64	n8	4	ARG
64	n8	6	THR
64	n8	8	THR
64	n8	10	LYS

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Mol	Chain	Res	Type
64	n8	12	ARG
64	n8	34	MET
64	n8	42	ARG
64	n8	43	ILE
64	n8	47	LYS
64	n8	65	GLN
64	n8	72	VAL
64	n8	78	LEU
64	n8	82	ILE
64	n8	85	ASP
64	n8	91	LEU
64	n8	97	GLU
64	n8	115	LYS
64	n8	128	ARG
64	n8	133	LEU
65	n9	19	ASN
65	n9	21	ILE
65	n9	23	LYS
65	n9	26	THR
65	n9	33	LYS
65	n9	38	LYS
65	n9	42	ASN
65	n9	47	LEU
65	n9	50	THR
65	n9	52	LYS
65	n9	58	LYS
65	n9	59	LYS
66	o0	6	SER
66	o0	8	GLU
66	o0	9	SER
66	o0	14	LEU
66	o0	17	VAL
66	o0	18	ILE
66	o0	32	LYS
66	o0	34	LEU
66	o0	41	LEU
66	o0	50	VAL
66	o0	76	GLU
66	o0	86	ARG
66	o0	87	VAL
66	o0	97	ASP
66	o0	100	ILE

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Mol	Chain	Res	Type
67	o1	6	ASP
67	o1	8	VAL
67	o1	13	THR
67	o1	16	LEU
67	o1	24	SER
67	o1	26	LYS
67	o1	31	ARG
67	o1	34	LYS
67	o1	44	MET
67	o1	55	LEU
67	o1	68	GLU
67	o1	76	SER
67	o1	96	VAL
67	o1	100	SER
67	o1	102	LYS
67	o1	106	THR
67	o1	110	GLU
68	o2	4	LEU
68	o2	16	LYS
68	o2	27	ARG
68	o2	33	ARG
68	o2	41	VAL
68	o2	51	SER
68	o2	73	THR
68	o2	75	LEU
68	o2	82	LEU
68	o2	89	THR
68	o2	106	VAL
68	o2	123	LYS
68	o2	125	ARG
68	o2	126	LEU
69	o3	4	SER
69	o3	10	LYS
69	o3	28	SER
69	o3	31	LYS
69	o3	48	ARG
69	o3	59	VAL
69	o3	70	LYS
69	o3	74	THR
69	o3	81	VAL
69	o3	97	SER
69	o3	98	VAL

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Mol	Chain	Res	Type
69	o3	107	ILE
70	o4	5	VAL
70	o4	20	ILE
70	o4	22	VAL
70	o4	23	VAL
70	o4	24	LYS
70	o4	29	ILE
70	o4	58	ARG
70	o4	65	VAL
70	o4	68	THR
70	o4	85	VAL
70	o4	98	GLN
70	o4	104	VAL
71	o5	15	GLU
71	o5	21	LEU
71	o5	27	GLU
71	o5	28	LEU
71	o5	31	LEU
71	o5	37	SER
71	o5	38	ARG
71	o5	40	SER
71	o5	45	LYS
71	o5	47	VAL
71	o5	48	ARG
71	o5	56	THR
71	o5	57	VAL
71	o5	62	GLN
71	o5	68	GLN
71	o5	69	LEU
71	o5	81	ARG
71	o5	85	THR
71	o5	89	ARG
71	o5	90	ARG
71	o5	100	VAL
71	o5	101	THR
71	o5	107	LYS
71	o5	113	GLN
71	o5	119	LYS
72	o6	7	ILE
72	o6	9	ILE
72	o6	11	LEU
72	o6	12	ASN

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Mol	Chain	Res	Type
72	o6	17	VAL
72	o6	21	THR
72	o6	26	ILE
72	o6	29	LYS
72	o6	34	SER
72	o6	35	ASN
72	o6	36	ARG
72	o6	38	LYS
72	o6	43	LEU
72	o6	45	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	60	LEU
72	o6	62	ARG
72	o6	64	SER
72	o6	68	ARG
72	o6	75	LYS
72	o6	76	ARG
72	o6	81	THR
72	o6	84	LYS
72	o6	88	GLU
72	o6	94	ILE
72	o6	98	ARG
73	o7	3	LYS
73	o7	17	THR
73	o7	25	ARG
73	o7	33	THR
73	o7	44	THR
73	o7	46	SER
73	o7	55	ARG
73	o7	58	THR
73	o7	59	THR
73	o7	65	ARG
73	o7	67	LEU
73	o7	68	LYS
73	o7	74	PHE
73	o7	80	THR
73	o7	82	SER
73	o7	84	SER
74	o8	5	ILE
74	o8	12	LEU
74	o8	17	ARG

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Mol	Chain	Res	Type
74	o8	22	THR
74	o8	24	THR
74	o8	41	THR
74	o8	45	VAL
74	o8	53	THR
74	o8	61	LYS
74	o8	64	LYS
74	o8	65	LEU
74	o8	67	GLN
74	o8	78	LEU
75	o9	12	LYS
75	o9	21	ARG
75	o9	23	LEU
75	o9	45	ARG
76	q0	77	ILE
76	q0	78	ILE
76	q0	79	GLU
76	q0	83	LYS
76	q0	85	LEU
76	q0	88	LYS
76	q0	106	ARG
76	q0	112	LYS
76	q0	113	ARG
76	q0	114	LYS
76	q0	127	LEU
77	q1	2	ARG
77	q1	6	ARG
77	q1	9	ARG
77	q1	13	LEU
77	q1	18	ARG
77	q1	21	ARG
77	q1	23	ARG
77	q1	24	SER
78	q2	2	VAL
78	q2	7	THR
78	q2	8	ARG
78	q2	13	LYS
78	q2	15	LYS
78	q2	16	THR
78	q2	35	LEU
78	q2	47	GLN
78	q2	61	LYS

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Mol	Chain	Res	Type
78	q2	69	VAL
78	q2	71	ARG
78	q2	78	LYS
78	q2	83	LEU
78	q2	84	THR
78	q2	85	LEU
78	q2	89	LYS
78	q2	93	LEU
78	q2	100	LYS
78	q2	104	LEU
78	q2	105	GLN
79	q3	3	LYS
79	q3	4	ARG
79	q3	21	SER
79	q3	24	ARG
79	q3	33	GLN
79	q3	42	CYS
79	q3	48	LYS
79	q3	49	ARG
79	q3	54	ILE
79	q3	56	THR
79	q3	57	CYS
79	q3	58	SER
79	q3	62	LYS
79	q3	90	VAL
88	p0	4	ILE
88	p0	5	ARG
88	p0	6	GLU
88	p0	10	GLU
88	p0	17	GLU
88	p0	30	VAL
88	p0	50	VAL
88	p0	51	VAL
88	p0	52	LEU
88	p0	55	LYS
88	p0	67	LEU
88	p0	70	LEU
88	p0	74	GLU
88	p0	76	LEU
88	p0	80	VAL
88	p0	81	LYS
88	p0	84	VAL

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Mol	Chain	Res	Type
88	p0	91	GLU
88	p0	93	LEU
88	p0	97	LYS
88	p0	104	ARG
88	p0	188	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (185) such sidechains are listed below:

Mol	Chain	Res	Type
2	S0	69	ASN
3	S1	95	ASN
3	S1	149	GLN
3	S1	177	GLN
4	S2	189	GLN
4	S2	201	ASN
5	S3	111	ASN
6	S4	69	HIS
6	S4	142	HIS
6	S4	188	ASN
7	S5	104	ASN
7	S5	139	ASN
7	S5	224	ASN
8	S6	59	GLN
8	S6	119	GLN
8	S6	139	ASN
9	S7	74	GLN
9	S7	174	ASN
9	S7	180	GLN
10	S8	52	ASN
10	S8	94	ASN
11	S9	110	GLN
11	S9	112	GLN
12	C0	12	HIS
12	C0	29	GLN
13	C1	21	ASN
15	C3	151	ASN
17	C5	103	ASN
19	C7	56	HIS
19	C7	101	ASN
20	C8	8	GLN
20	C8	74	GLN
20	C8	136	GLN

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Mol	Chain	Res	Type
21	C9	138	GLN
22	D0	72	ASN
23	D1	74	GLN
24	D2	39	GLN
26	D4	77	ASN
26	D4	107	GLN
27	D5	95	HIS
28	D6	25	ASN
31	D9	20	GLN
31	D9	53	ASN
34	SR	268	GLN
39	L2	205	ASN
39	L2	250	GLN
40	L3	109	HIS
40	L3	139	GLN
40	L3	173	GLN
40	L3	177	HIS
40	L3	224	HIS
40	L3	256	HIS
41	L4	87	GLN
41	L4	260	GLN
41	L4	279	HIS
42	L5	63	GLN
43	L6	28	GLN
44	L7	244	ASN
45	L8	24	ASN
45	L8	38	GLN
46	L9	5	GLN
46	L9	58	HIS
47	M0	12	GLN
47	M0	59	GLN
48	M1	68	HIS
49	M3	103	ASN
49	M3	114	GLN
50	M4	126	GLN
51	M5	117	ASN
51	M5	156	HIS
52	M6	90	HIS
53	M7	54	HIS
53	M7	92	GLN
55	M9	39	ASN
55	M9	166	ASN

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Mol	Chain	Res	Type
57	N1	45	ASN
58	N2	87	ASN
60	N4	42	GLN
62	N6	81	GLN
63	N7	122	HIS
63	N7	127	ASN
63	N7	128	GLN
65	N9	42	ASN
65	N9	43	HIS
68	O2	49	ASN
68	O2	52	GLN
74	O8	67	GLN
75	O9	25	GLN
78	Q2	3	ASN
78	Q2	102	GLN
79	Q3	25	GLN
2	s0	140	ASN
3	s1	148	ASN
3	s1	149	GLN
3	s1	209	ASN
4	s2	82	ASN
4	s2	250	GLN
5	s3	62	ASN
5	s3	165	ASN
6	s4	17	HIS
7	s5	104	ASN
8	s6	189	HIS
11	s9	110	GLN
11	s9	142	ASN
80	c0	32	HIS
15	c3	105	ASN
20	c8	12	GLN
20	c8	103	ASN
21	c9	25	GLN
21	c9	70	GLN
22	d0	16	GLN
22	d0	49	ASN
22	d0	72	ASN
22	d0	105	GLN
23	d1	7	GLN
23	d1	29	HIS
24	d2	56	HIS

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Mol	Chain	Res	Type
25	d3	48	HIS
26	d4	22	GLN
26	d4	31	ASN
28	d6	8	ASN
29	d7	51	GLN
30	d8	51	ASN
32	e0	17	GLN
33	e1	145	HIS
83	sR	29	GLN
83	sR	185	GLN
39	l2	205	ASN
39	l2	215	ASN
40	l3	109	HIS
40	l3	121	ASN
40	l3	182	GLN
41	l4	5	GLN
41	l4	45	ASN
41	l4	116	ASN
41	l4	296	GLN
41	l4	320	ASN
42	l5	81	HIS
42	l5	264	GLN
44	l7	93	ASN
44	l7	112	ASN
85	l8	38	GLN
46	l9	58	HIS
46	l9	96	HIS
46	l9	162	GLN
47	m0	113	GLN
48	m1	101	ASN
49	m3	25	HIS
51	m5	32	GLN
51	m5	156	HIS
51	m5	178	HIS
52	m6	193	GLN
53	m7	55	GLN
53	m7	125	GLN
54	m8	58	ASN
55	m9	7	GLN
55	m9	118	HIS
55	m9	156	ASN
56	n0	8	GLN

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Mol	Chain	Res	Type
56	n0	62	ASN
57	n1	131	GLN
58	n2	101	ASN
59	n3	132	ASN
61	n5	137	ASN
62	n6	4	GLN
64	n8	44	ASN
68	o2	49	ASN
68	o2	52	GLN
68	o2	71	HIS
70	o4	3	GLN
70	o4	98	GLN
71	o5	108	GLN
72	o6	63	ASN
73	o7	13	ASN
73	o7	57	HIS
73	o7	76	ASN
74	o8	40	GLN
75	o9	4	GLN
75	o9	11	GLN
75	o9	33	ASN
76	q0	90	ASN
78	q2	27	GLN
78	q2	90	HIS
88	p0	37	GLN
88	p0	193	ASN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1777/1800 (98%)	461 (25%)	67 (3%)
1	6	1792/1800 (99%)	447 (24%)	51 (2%)
36	1	3146/3394 (92%)	651 (20%)	70 (2%)
36	5	3145/3394 (92%)	653 (20%)	82 (2%)
37	3	120/121 (99%)	17 (14%)	1 (0%)
37	7	120/121 (99%)	16 (13%)	0
38	4	157/158 (99%)	37 (23%)	2 (1%)
38	8	157/158 (99%)	39 (24%)	2 (1%)
90	A	1/3 (33%)	1 (100%)	0
90	a	1/3 (33%)	1 (100%)	0
All	All	10416/10952 (95%)	2323 (22%)	275 (2%)

All (2323) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	25	C
1	2	26	A
1	2	27	U
1	2	34	G
1	2	45	U
1	2	46	A
1	2	47	A
1	2	50	C
1	2	57	G
1	2	60	U
1	2	67	A
1	2	68	A
1	2	69	G
1	2	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	77	U
1	2	101	U
1	2	104	A
1	2	114	C
1	2	115	G
1	2	131	C
1	2	132	U
1	2	133	U
1	2	134	U
1	2	135	A
1	2	136	C
1	2	137	U
1	2	140	A
1	2	141	U
1	2	144	U
1	2	145	A
1	2	146	U
1	2	153	G
1	2	158	U
1	2	159	U
1	2	178	U
1	2	185	U
1	2	186	C

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Mol	Chain	Res	Type
1	2	188	A
1	2	190	C
1	2	191	C
1	2	192	U
1	2	193	U
1	2	194	U
1	2	195	G
1	2	196	G
1	2	197	A
1	2	198	A
1	2	200	A
1	2	215	A
1	2	217	A
1	2	218	A
1	2	219	A
1	2	226	A
1	2	227	U
1	2	228	G
1	2	233	C
1	2	234	G
1	2	235	G
1	2	238	U
1	2	239	C
1	2	240	U
1	2	241	U
1	2	242	U
1	2	249	U
1	2	250	C
1	2	261	U
1	2	262	U
1	2	265	A
1	2	269	G
1	2	271	A
1	2	272	U
1	2	274	G
1	2	275	C
1	2	276	C
1	2	277	U
1	2	278	U
1	2	279	G
1	2	280	U
1	2	281	G

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Mol	Chain	Res	Type
1	2	288	A
1	2	290	G
1	2	299	A
1	2	302	U
1	2	308	C
1	2	309	C
1	2	314	C
1	2	316	A
1	2	319	U
1	2	321	C
1	2	322	G
1	2	337	G
1	2	338	C
1	2	341	A
1	2	344	A
1	2	352	A
1	2	359	A
1	2	360	A
1	2	361	C
1	2	387	A
1	2	399	A
1	2	400	A
1	2	401	A
1	2	402	C
1	2	403	G
1	2	404	G
1	2	416	A
1	2	418	G
1	2	419	G
1	2	421	A
1	2	424	C
1	2	425	A
1	2	426	G
1	2	428	A
1	2	434	G
1	2	437	A
1	2	439	U
1	2	444	C
1	2	448	C
1	2	468	A
1	2	470	A
1	2	475	A

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Mol	Chain	Res	Type
1	2	484	C
1	2	485	A
1	2	486	G
1	2	488	G
1	2	493	U
1	2	494	U
1	2	495	C
1	2	496	G
1	2	497	G
1	2	498	G
1	2	499	U
1	2	500	C
1	2	502	U
1	2	503	G
1	2	504	U
1	2	505	A
1	2	506	A
1	2	507	U
1	2	508	U
1	2	510	G
1	2	511	A
1	2	513	U
1	2	514	G
1	2	515	A
1	2	516	G
1	2	520	A
1	2	527	A
1	2	532	U
1	2	538	A
1	2	539	G
1	2	540	G
1	2	541	A
1	2	542	A
1	2	543	C
1	2	544	A
1	2	548	G
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U
1	2	559	C
1	2	565	C

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Mol	Chain	Res	Type
1	2	578	U
1	2	579	A
1	2	580	A
1	2	585	A
1	2	594	A
1	2	595	G
1	2	606	A
1	2	611	U
1	2	619	A
1	2	620	A
1	2	622	A
1	2	623	A
1	2	624	G
1	2	630	A
1	2	639	U
1	2	640	U
1	2	650	U
1	2	653	C
1	2	655	G
1	2	656	G
1	2	657	U
1	2	658	C
1	2	677	G
1	2	679	U
1	2	680	U
1	2	682	C
1	2	684	A
1	2	685	A
1	2	686	C
1	2	692	C
1	2	694	U
1	2	696	C
1	2	697	C
1	2	700	C
1	2	701	U
1	2	702	G
1	2	703	G
1	2	704	C
1	2	705	U
1	2	707	A
1	2	709	C
1	2	710	U

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Mol	Chain	Res	Type
1	2	712	G
1	2	713	A
1	2	714	G
1	2	717	C
1	2	718	U
1	2	719	U
1	2	720	G
1	2	721	U
1	2	722	G
1	2	723	G
1	2	725	U
1	2	727	U
1	2	728	U
1	2	730	G
1	2	731	C
1	2	732	G
1	2	733	A
1	2	734	A
1	2	735	C
1	2	736	C
1	2	737	A
1	2	738	G
1	2	742	U
1	2	754	A
1	2	755	A
1	2	756	A
1	2	758	U
1	2	765	G
1	2	766	U
1	2	774	A
1	2	775	G
1	2	778	G
1	2	780	A
1	2	781	U
1	2	782	U
1	2	783	G
1	2	784	C
1	2	789	A
1	2	794	U
1	2	795	U
1	2	803	A
1	2	806	A

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Mol	Chain	Res	Type
1	2	811	A
1	2	812	A
1	2	815	G
1	2	816	G
1	2	818	C
1	2	819	G
1	2	820	U
1	2	821	U
1	2	823	G
1	2	824	G
1	2	829	A
1	2	830	U
1	2	831	U
1	2	833	U
1	2	837	G
1	2	840	U
1	2	846	G
1	2	848	C
1	2	856	A
1	2	862	A
1	2	863	A
1	2	864	U
1	2	886	U
1	2	896	U
1	2	898	A
1	2	912	U
1	2	913	G
1	2	914	G
1	2	915	A
1	2	921	U
1	2	933	A
1	2	935	U
1	2	942	G
1	2	944	A
1	2	951	A
1	2	960	U
1	2	961	U
1	2	966	A
1	2	988	A
1	2	992	A
1	2	993	A
1	2	997	G

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Mol	Chain	Res	Type
1	2	1003	A
1	2	1004	U
1	2	1005	A
1	2	1020	A
1	2	1021	C
1	2	1026	A
1	2	1028	C
1	2	1039	A
1	2	1040	G
1	2	1051	G
1	2	1052	U
1	2	1053	G
1	2	1058	U
1	2	1059	U
1	2	1060	U
1	2	1061	A
1	2	1071	U
1	2	1074	G
1	2	1079	U
1	2	1082	C
1	2	1083	G
1	2	1086	A
1	2	1091	A
1	2	1092	A
1	2	1096	C
1	2	1097	U
1	2	1100	G
1	2	1109	G
1	2	1111	G
1	2	1138	A
1	2	1146	G
1	2	1149	G
1	2	1150	G
1	2	1151	A
1	2	1152	A
1	2	1155	G
1	2	1157	A
1	2	1158	C
1	2	1160	A
1	2	1164	G
1	2	1167	G
1	2	1185	U

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Mol	Chain	Res	Type
1	2	1191	U
1	2	1194	A
1	2	1196	A
1	2	1197	C
1	2	1199	G
1	2	1200	G
1	2	1202	A
1	2	1207	C
1	2	1208	A
1	2	1217	A
1	2	1218	G
1	2	1227	A
1	2	1228	G
1	2	1229	G
1	2	1243	G
1	2	1244	A
1	2	1245	G
1	2	1250	U
1	2	1251	U
1	2	1256	A
1	2	1257	U
1	2	1258	U
1	2	1286	U
1	2	1292	G
1	2	1301	U
1	2	1314	U
1	2	1321	A
1	2	1339	C
1	2	1340	U
1	2	1341	A
1	2	1344	A
1	2	1345	A
1	2	1349	G
1	2	1354	G
1	2	1355	C
1	2	1363	U
1	2	1364	G
1	2	1370	U
1	2	1371	A
1	2	1372	U
1	2	1390	U
1	2	1398	U

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Mol	Chain	Res	Type
1	2	1399	C
1	2	1412	G
1	2	1413	U
1	2	1415	U
1	2	1427	A
1	2	1428	G
1	2	1431	C
1	2	1446	A
1	2	1448	G
1	2	1457	C
1	2	1459	C
1	2	1461	C
1	2	1462	G
1	2	1471	A
1	2	1473	U
1	2	1474	G
1	2	1482	C
1	2	1486	G
1	2	1489	U
1	2	1490	C
1	2	1491	U
1	2	1492	A
1	2	1493	A
1	2	1499	G
1	2	1506	G
1	2	1514	U
1	2	1515	A
1	2	1516	A
1	2	1517	U
1	2	1521	G
1	2	1523	G
1	2	1524	A
1	2	1526	A
1	2	1535	U
1	2	1536	G
1	2	1537	C
1	2	1538	U
1	2	1539	G
1	2	1557	U
1	2	1559	A
1	2	1569	A
1	2	1573	A

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Mol	Chain	Res	Type
1	2	1574	G
1	2	1584	G
1	2	1601	G
1	2	1614	A
1	2	1616	G
1	2	1624	C
1	2	1626	U
1	2	1631	A
1	2	1635	A
1	2	1657	U
1	2	1658	G
1	2	1680	G
1	2	1681	A
1	2	1683	C
1	2	1684	U
1	2	1693	A
1	2	1696	G
1	2	1697	G
1	2	1698	G
1	2	1699	G
1	2	1700	C
1	2	1701	A
1	2	1702	A
1	2	1712	A
1	2	1713	G
1	2	1715	G
1	2	1716	C
1	2	1731	A
1	2	1760	G
1	2	1761	U
1	2	1762	A
1	2	1766	A
1	2	1769	U
1	2	1780	G
1	2	1782	A
1	2	1783	C
1	2	1792	G
1	2	1793	G
1	2	1794	A
1	2	1795	U
1	2	1796	C
36	1	14	U

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Mol	Chain	Res	Type
36	1	16	A
36	1	24	G
36	1	26	A
36	1	40	A
36	1	49	A
36	1	57	A
36	1	59	G
36	1	60	A
36	1	65	A
36	1	66	A
36	1	68	C
36	1	73	C
36	1	83	U
36	1	92	G
36	1	93	C
36	1	94	G
36	1	99	A
36	1	109	A
36	1	110	G
36	1	113	C
36	1	121	A
36	1	122	A
36	1	133	U
36	1	135	C
36	1	136	G
36	1	147	U
36	1	156	G
36	1	157	A
36	1	166	C
36	1	169	U
36	1	170	G
36	1	173	G
36	1	182	U
36	1	183	G
36	1	187	A
36	1	190	U
36	1	191	U
36	1	192	C
36	1	200	C
36	1	210	U
36	1	218	G
36	1	219	A

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Mol	Chain	Res	Type
36	1	226	C
36	1	238	A
36	1	240	U
36	1	241	G
36	1	243	G
36	1	245	U
36	1	249	U
36	1	250	U
36	1	251	G
36	1	252	U
36	1	269	G
36	1	283	G
36	1	286	U
36	1	295	A
36	1	298	U
36	1	305	U
36	1	315	C
36	1	323	A
36	1	329	U
36	1	339	C
36	1	349	A
36	1	350	C
36	1	351	A
36	1	370	U
36	1	376	G
36	1	398	A
36	1	399	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	404	G
36	1	421	G
36	1	422	A
36	1	439	C
36	1	440	A
36	1	495	G
36	1	498	A
36	1	517	G
36	1	520	U
36	1	521	A
36	1	535	G
36	1	543	C

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Mol	Chain	Res	Type
36	1	544	C
36	1	546	C
36	1	547	G
36	1	548	G
36	1	552	G
36	1	557	A
36	1	558	U
36	1	559	A
36	1	560	G
36	1	569	A
36	1	578	A
36	1	579	G
36	1	592	A
36	1	594	U
36	1	595	G
36	1	604	G
36	1	607	A
36	1	609	G
36	1	611	A
36	1	619	A
36	1	620	U
36	1	621	A
36	1	622	A
36	1	636	C
36	1	637	C
36	1	638	C
36	1	649	A
36	1	660	A
36	1	677	A
36	1	681	U
36	1	684	G
36	1	691	A
36	1	705	A
36	1	709	A
36	1	712	G
36	1	715	A
36	1	716	A
36	1	722	G
36	1	725	G
36	1	727	G
36	1	758	C
36	1	764	U

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Mol	Chain	Res	Type
36	1	766	U
36	1	767	U
36	1	776	U
36	1	777	U
36	1	780	A
36	1	781	G
36	1	785	G
36	1	792	G
36	1	806	A
36	1	817	A
36	1	830	A
36	1	842	G
36	1	849	C
36	1	861	C
36	1	874	U
36	1	879	U
36	1	885	U
36	1	890	C
36	1	896	A
36	1	907	G
36	1	908	G
36	1	914	A
36	1	916	G
36	1	917	A
36	1	921	A
36	1	923	C
36	1	924	G
36	1	937	G
36	1	944	C
36	1	959	C
36	1	960	U
36	1	963	G
36	1	979	U
36	1	980	A
36	1	981	U
36	1	982	C
36	1	993	G
36	1	994	G
36	1	1000	C
36	1	1001	G
36	1	1002	A
36	1	1006	A

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Mol	Chain	Res	Type
36	1	1010	G
36	1	1013	G
36	1	1017	C
36	1	1018	G
36	1	1020	G
36	1	1021	G
36	1	1024	G
36	1	1025	A
36	1	1029	G
36	1	1035	G
36	1	1037	C
36	1	1045	C
36	1	1047	A
36	1	1049	C
36	1	1052	U
36	1	1064	A
36	1	1065	A
36	1	1071	U
36	1	1072	G
36	1	1079	A
36	1	1081	U
36	1	1082	U
36	1	1083	G
36	1	1093	A
36	1	1094	U
36	1	1095	U
36	1	1096	U
36	1	1097	G
36	1	1098	A
36	1	1103	A
36	1	1104	G
36	1	1117	G
36	1	1131	G
36	1	1144	U
36	1	1153	A
36	1	1159	A
36	1	1160	C
36	1	1178	G
36	1	1179	A
36	1	1180	A
36	1	1181	U
36	1	1182	A

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Mol	Chain	Res	Type
36	1	1185	C
36	1	1191	U
36	1	1192	C
36	1	1196	C
36	1	1197	A
36	1	1201	C
36	1	1209	G
36	1	1212	A
36	1	1213	G
36	1	1216	C
36	1	1217	A
36	1	1221	A
36	1	1222	G
36	1	1225	A
36	1	1227	C
36	1	1232	C
36	1	1233	G
36	1	1236	G
36	1	1237	G
36	1	1241	U
36	1	1242	G
36	1	1243	G
36	1	1245	A
36	1	1246	G
36	1	1248	C
36	1	1249	G
36	1	1258	U
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1265	U
36	1	1266	G
36	1	1267	U
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1272	C
36	1	1274	A
36	1	1278	A
36	1	1279	C
36	1	1280	C
36	1	1285	G

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Mol	Chain	Res	Type
36	1	1287	A
36	1	1292	C
36	1	1307	G
36	1	1308	A
36	1	1309	U
36	1	1313	G
36	1	1330	A
36	1	1331	U
36	1	1345	G
36	1	1348	U
36	1	1349	G
36	1	1351	U
36	1	1352	A
36	1	1353	U
36	1	1355	A
36	1	1356	U
36	1	1357	G
36	1	1386	A
36	1	1392	G
36	1	1398	U
36	1	1399	A
36	1	1400	G
36	1	1417	G
36	1	1419	A
36	1	1429	G
36	1	1431	G
36	1	1433	A
36	1	1434	G
36	1	1436	U
36	1	1437	C
36	1	1443	G
36	1	1446	A
36	1	1450	G
36	1	1460	A
36	1	1468	A
36	1	1481	A
36	1	1482	A
36	1	1485	G
36	1	1502	C
36	1	1508	C
36	1	1527	C
36	1	1556	C

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Mol	Chain	Res	Type
36	1	1557	A
36	1	1560	G
36	1	1561	G
36	1	1562	C
36	1	1563	C
36	1	1564	U
36	1	1566	A
36	1	1567	U
36	1	1568	U
36	1	1569	U
36	1	1570	U
36	1	1572	U
36	1	1576	G
36	1	1580	A
36	1	1582	C
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1596	C
36	1	1605	A
36	1	1607	U
36	1	1620	U
36	1	1629	U
36	1	1639	C
36	1	1641	U
36	1	1643	A
36	1	1645	U
36	1	1657	C
36	1	1683	A
36	1	1702	U
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1725	C
36	1	1736	G
36	1	1750	A
36	1	1751	G
36	1	1762	C
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1770	G

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Mol	Chain	Res	Type
36	1	1775	G
36	1	1780	G
36	1	1781	C
36	1	1797	A
36	1	1805	C
36	1	1810	A
36	1	1812	G
36	1	1813	A
36	1	1814	A
36	1	1816	A
36	1	1817	G
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1835	A
36	1	1839	A
36	1	1841	A
36	1	1842	A
36	1	1846	C
36	1	1849	C
36	1	1850	A
36	1	1864	A
36	1	1879	A
36	1	1880	U
36	1	1886	A
36	1	1895	A
36	1	1901	A
36	1	1906	G
36	1	1935	G
36	1	1951	C
36	1	1952	G
36	1	1954	G
36	1	2094	C
36	1	2101	C
36	1	2102	U
36	1	2106	A
36	1	2111	G
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2116	G
36	1	2121	G

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Mol	Chain	Res	Type
36	1	2122	G
36	1	2131	A
36	1	2134	G
36	1	2140	U
36	1	2144	A
36	1	2158	A
36	1	2169	G
36	1	2170	U
36	1	2175	U
36	1	2187	G
36	1	2198	A
36	1	2205	U
36	1	2208	A
36	1	2209	U
36	1	2210	G
36	1	2222	A
36	1	2223	A
36	1	2225	U
36	1	2228	A
36	1	2244	A
36	1	2249	G
36	1	2250	G
36	1	2255	A
36	1	2256	A
36	1	2262	A
36	1	2272	G
36	1	2273	G
36	1	2281	A
36	1	2282	U
36	1	2283	G
36	1	2284	C
36	1	2288	G
36	1	2298	U
36	1	2307	G
36	1	2310	U
36	1	2313	A
36	1	2314	U
36	1	2315	G
36	1	2334	U
36	1	2335	G
36	1	2336	U
36	1	2341	A

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Mol	Chain	Res	Type
36	1	2361	A
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2385	G
36	1	2393	G
36	1	2395	G
36	1	2397	A
36	1	2401	A
36	1	2402	A
36	1	2403	G
36	1	2404	A
36	1	2411	U
36	1	2418	G
36	1	2419	A
36	1	2435	G
36	1	2437	G
36	1	2444	C
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2504	U
36	1	2507	C
36	1	2514	U
36	1	2515	A
36	1	2522	G
36	1	2523	A
36	1	2525	G
36	1	2526	C
36	1	2532	U
36	1	2533	G
36	1	2537	U
36	1	2538	U
36	1	2539	C
36	1	2540	A
36	1	2541	U
36	1	2542	U
36	1	2543	U
36	1	2547	A
36	1	2548	C
36	1	2549	G

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Mol	Chain	Res	Type
36	1	2552	C
36	1	2554	A
36	1	2555	G
36	1	2561	A
36	1	2568	C
36	1	2569	A
36	1	2570	U
36	1	2571	U
36	1	2572	C
36	1	2573	G
36	1	2576	G
36	1	2581	U
36	1	2585	G
36	1	2586	G
36	1	2593	A
36	1	2594	C
36	1	2606	G
36	1	2607	G
36	1	2614	G
36	1	2626	A
36	1	2629	U
36	1	2637	A
36	1	2652	U
36	1	2656	A
36	1	2674	A
36	1	2677	G
36	1	2685	C
36	1	2689	A
36	1	2691	A
36	1	2694	A
36	1	2696	A
36	1	2705	A
36	1	2714	G
36	1	2728	G
36	1	2737	C
36	1	2752	U
36	1	2753	G
36	1	2754	G
36	1	2755	C
36	1	2762	A
36	1	2771	U
36	1	2772	C

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Mol	Chain	Res	Type
36	1	2777	G
36	1	2778	G
36	1	2779	A
36	1	2788	C
36	1	2796	G
36	1	2799	A
36	1	2800	G
36	1	2801	A
36	1	2802	A
36	1	2803	A
36	1	2810	C
36	1	2814	G
36	1	2816	G
36	1	2817	A
36	1	2818	U
36	1	2819	A
36	1	2829	U
36	1	2834	G
36	1	2836	C
36	1	2842	U
36	1	2843	U
36	1	2845	A
36	1	2847	A
36	1	2849	C
36	1	2859	U
36	1	2860	U
36	1	2867	C
36	1	2871	G
36	1	2872	A
36	1	2875	U
36	1	2876	C
36	1	2887	A
36	1	2889	C
36	1	2898	G
36	1	2899	C
36	1	2914	G
36	1	2923	U
36	1	2927	C
36	1	2935	U
36	1	2936	A
36	1	2942	C
36	1	2947	G

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Mol	Chain	Res	Type
36	1	2955	U
36	1	2971	A
36	1	2980	U
36	1	2983	C
36	1	2990	G
36	1	2996	U
36	1	2997	G
36	1	3012	A
36	1	3028	G
36	1	3057	U
36	1	3058	U
36	1	3059	G
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3086	A
36	1	3087	A
36	1	3092	C
36	1	3113	A
36	1	3119	U
36	1	3122	A
36	1	3130	A
36	1	3131	U
36	1	3139	A
36	1	3142	A
36	1	3143	C
36	1	3150	A
36	1	3151	U
36	1	3153	U
36	1	3154	C
36	1	3155	U
36	1	3156	U
36	1	3157	U
36	1	3164	C
36	1	3165	A
36	1	3168	A
36	1	3169	U
36	1	3170	A
36	1	3171	U
36	1	3173	G
36	1	3174	A
36	1	3176	G

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Mol	Chain	Res	Type
36	1	3179	U
36	1	3181	C
36	1	3187	A
36	1	3195	U
36	1	3196	U
36	1	3207	U
36	1	3217	C
36	1	3218	A
36	1	3219	G
36	1	3228	C
36	1	3229	G
36	1	3235	C
36	1	3244	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3253	G
36	1	3259	U
36	1	3269	U
36	1	3270	U
36	1	3272	C
36	1	3276	G
36	1	3277	U
36	1	3279	A
36	1	3280	U
36	1	3281	U
36	1	3286	G
36	1	3287	U
36	1	3289	G
36	1	3294	A
36	1	3295	A
36	1	3303	G
36	1	3304	U
36	1	3307	A
36	1	3313	U
36	1	3316	A
36	1	3317	U
36	1	3318	G
36	1	3319	U
36	1	3320	A
36	1	3341	U
36	1	3342	A

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Mol	Chain	Res	Type
36	1	3345	G
36	1	3347	A
36	1	3348	G
36	1	3349	C
36	1	3350	C
36	1	3351	U
36	1	3352	U
36	1	3353	G
36	1	3354	U
36	1	3355	U
36	1	3356	G
36	1	3368	U
36	1	3369	G
36	1	3375	A
36	1	3376	A
36	1	3378	C
36	1	3382	U
36	1	3383	G
36	1	3389	U
36	1	3396	U
37	3	7	G
37	3	13	A
37	3	22	A
37	3	29	C
37	3	41	G
37	3	51	A
37	3	53	U
37	3	54	U
37	3	65	G
37	3	73	C
37	3	74	C
37	3	76	A
37	3	91	G
37	3	95	A
37	3	102	A
37	3	112	G
37	3	121	U
38	4	26	U
38	4	34	U
38	4	35	C
38	4	42	G
38	4	48	A

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Mol	Chain	Res	Type
38	4	51	G
38	4	52	A
38	4	59	A
38	4	62	C
38	4	63	G
38	4	66	A
38	4	79	A
38	4	80	A
38	4	81	U
38	4	82	U
38	4	83	C
38	4	84	C
38	4	85	G
38	4	86	U
38	4	87	G
38	4	90	U
38	4	95	G
38	4	104	A
38	4	105	A
38	4	106	C
38	4	111	A
38	4	112	U
38	4	113	U
38	4	122	U
38	4	125	U
38	4	126	A
38	4	128	U
38	4	138	A
38	4	151	C
38	4	152	G
38	4	155	A
38	4	158	U
1	6	2	A
1	6	4	C
1	6	17	C
1	6	23	G
1	6	25	C
1	6	26	A
1	6	27	U
1	6	34	G
1	6	47	A
1	6	57	G

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Mol	Chain	Res	Type
1	6	60	U
1	6	66	U
1	6	67	A
1	6	68	A
1	6	69	G
1	6	72	A
1	6	73	U
1	6	75	U
1	6	76	A
1	6	77	U
1	6	87	C
1	6	103	A
1	6	104	A
1	6	114	C
1	6	115	G
1	6	132	U
1	6	137	U
1	6	138	A
1	6	140	A
1	6	141	U
1	6	144	U
1	6	145	A
1	6	146	U
1	6	153	G
1	6	158	U
1	6	159	U
1	6	166	C
1	6	178	U
1	6	185	U
1	6	188	A
1	6	190	C
1	6	191	C
1	6	192	U
1	6	193	U
1	6	194	U
1	6	195	G
1	6	196	G
1	6	199	G
1	6	200	A
1	6	215	A
1	6	216	U
1	6	217	A

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Mol	Chain	Res	Type
1	6	218	A
1	6	219	A
1	6	220	A
1	6	222	A
1	6	226	A
1	6	227	U
1	6	228	G
1	6	229	U
1	6	230	C
1	6	232	U
1	6	233	C
1	6	235	G
1	6	238	U
1	6	240	U
1	6	241	U
1	6	249	U
1	6	250	C
1	6	261	U
1	6	265	A
1	6	266	A
1	6	271	A
1	6	272	U
1	6	273	G
1	6	277	U
1	6	278	U
1	6	280	U
1	6	281	G
1	6	287	G
1	6	299	A
1	6	309	C
1	6	314	C
1	6	316	A
1	6	319	U
1	6	320	U
1	6	321	C
1	6	322	G
1	6	333	A
1	6	337	G
1	6	338	C
1	6	341	A
1	6	352	A
1	6	359	A

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Mol	Chain	Res	Type
1	6	360	A
1	6	361	C
1	6	370	A
1	6	381	C
1	6	400	A
1	6	401	A
1	6	402	C
1	6	404	G
1	6	416	A
1	6	418	G
1	6	424	C
1	6	425	A
1	6	426	G
1	6	434	G
1	6	439	U
1	6	444	C
1	6	448	C
1	6	464	A
1	6	468	A
1	6	470	A
1	6	475	A
1	6	477	A
1	6	480	G
1	6	484	C
1	6	485	A
1	6	486	G
1	6	488	G
1	6	489	C
1	6	490	C
1	6	492	A
1	6	493	U
1	6	494	U
1	6	495	C
1	6	496	G
1	6	497	G
1	6	500	C
1	6	501	U
1	6	504	U
1	6	505	A
1	6	506	A
1	6	508	U
1	6	510	G

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Mol	Chain	Res	Type
1	6	511	A
1	6	512	A
1	6	513	U
1	6	515	A
1	6	519	C
1	6	527	A
1	6	532	U
1	6	538	A
1	6	539	G
1	6	540	G
1	6	541	A
1	6	542	A
1	6	543	C
1	6	544	A
1	6	548	G
1	6	551	G
1	6	554	C
1	6	555	A
1	6	556	A
1	6	557	G
1	6	558	U
1	6	559	C
1	6	564	G
1	6	565	C
1	6	568	G
1	6	570	A
1	6	574	G
1	6	578	U
1	6	579	A
1	6	580	A
1	6	582	U
1	6	594	A
1	6	595	G
1	6	609	U
1	6	610	G
1	6	611	U
1	6	619	A
1	6	620	A
1	6	622	A
1	6	623	A
1	6	624	G
1	6	637	C

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Mol	Chain	Res	Type
1	6	639	U
1	6	640	U
1	6	648	G
1	6	652	G
1	6	653	C
1	6	654	C
1	6	661	A
1	6	662	U
1	6	665	U
1	6	667	U
1	6	668	C
1	6	669	G
1	6	670	U
1	6	676	G
1	6	678	A
1	6	679	U
1	6	680	U
1	6	681	U
1	6	682	C
1	6	683	C
1	6	684	A
1	6	685	A
1	6	691	C
1	6	695	U
1	6	696	C
1	6	697	C
1	6	698	U
1	6	709	C
1	6	710	U
1	6	711	U
1	6	714	G
1	6	718	U
1	6	719	U
1	6	720	G
1	6	721	U
1	6	722	G
1	6	723	G
1	6	730	G
1	6	731	C
1	6	742	U
1	6	751	G
1	6	754	A

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Mol	Chain	Res	Type
1	6	755	A
1	6	756	A
1	6	765	G
1	6	766	U
1	6	773	C
1	6	774	A
1	6	775	G
1	6	777	C
1	6	780	A
1	6	781	U
1	6	782	U
1	6	783	G
1	6	787	G
1	6	789	A
1	6	793	A
1	6	794	U
1	6	811	A
1	6	812	A
1	6	815	G
1	6	816	G
1	6	821	U
1	6	823	G
1	6	825	U
1	6	826	U
1	6	829	A
1	6	830	U
1	6	831	U
1	6	832	U
1	6	834	G
1	6	835	U
1	6	863	A
1	6	864	U
1	6	898	A
1	6	906	A
1	6	912	U
1	6	913	G
1	6	914	G
1	6	916	U
1	6	933	A
1	6	935	U
1	6	942	G
1	6	944	A

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Mol	Chain	Res	Type
1	6	959	U
1	6	960	U
1	6	966	A
1	6	969	C
1	6	970	A
1	6	971	A
1	6	992	A
1	6	993	A
1	6	997	G
1	6	1003	A
1	6	1004	U
1	6	1005	A
1	6	1021	C
1	6	1023	A
1	6	1026	A
1	6	1028	C
1	6	1039	A
1	6	1040	G
1	6	1052	U
1	6	1053	G
1	6	1057	U
1	6	1058	U
1	6	1059	U
1	6	1060	U
1	6	1061	A
1	6	1063	U
1	6	1072	C
1	6	1074	G
1	6	1082	C
1	6	1092	A
1	6	1096	C
1	6	1097	U
1	6	1098	U
1	6	1100	G
1	6	1109	G
1	6	1111	G
1	6	1138	A
1	6	1139	A
1	6	1151	A
1	6	1155	G
1	6	1158	C
1	6	1159	C

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Mol	Chain	Res	Type
1	6	1160	A
1	6	1162	C
1	6	1164	G
1	6	1167	G
1	6	1185	U
1	6	1194	A
1	6	1196	A
1	6	1197	C
1	6	1199	G
1	6	1200	G
1	6	1202	A
1	6	1208	A
1	6	1217	A
1	6	1218	G
1	6	1220	C
1	6	1221	A
1	6	1225	U
1	6	1226	A
1	6	1228	G
1	6	1229	G
1	6	1230	A
1	6	1231	U
1	6	1239	U
1	6	1240	U
1	6	1241	G
1	6	1243	G
1	6	1244	A
1	6	1245	G
1	6	1246	C
1	6	1255	G
1	6	1256	A
1	6	1257	U
1	6	1258	U
1	6	1261	G
1	6	1286	U
1	6	1288	G
1	6	1291	G
1	6	1314	U
1	6	1316	G
1	6	1321	A
1	6	1343	U
1	6	1344	A

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Mol	Chain	Res	Type
1	6	1345	A
1	6	1346	A
1	6	1354	G
1	6	1355	C
1	6	1361	U
1	6	1362	U
1	6	1363	U
1	6	1364	G
1	6	1367	G
1	6	1371	A
1	6	1388	A
1	6	1390	U
1	6	1398	U
1	6	1399	C
1	6	1400	A
1	6	1402	G
1	6	1412	G
1	6	1413	U
1	6	1415	U
1	6	1427	A
1	6	1428	G
1	6	1445	G
1	6	1446	A
1	6	1448	G
1	6	1458	G
1	6	1459	C
1	6	1471	A
1	6	1481	C
1	6	1482	C
1	6	1486	G
1	6	1489	U
1	6	1490	C
1	6	1491	U
1	6	1492	A
1	6	1493	A
1	6	1494	C
1	6	1506	G
1	6	1514	U
1	6	1515	A
1	6	1516	A
1	6	1521	G
1	6	1523	G

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Mol	Chain	Res	Type
1	6	1524	A
1	6	1531	G
1	6	1535	U
1	6	1536	G
1	6	1537	C
1	6	1538	U
1	6	1540	G
1	6	1554	U
1	6	1557	U
1	6	1559	A
1	6	1569	A
1	6	1572	G
1	6	1573	A
1	6	1574	G
1	6	1582	U
1	6	1584	G
1	6	1600	A
1	6	1601	G
1	6	1616	G
1	6	1618	C
1	6	1621	U
1	6	1634	C
1	6	1637	C
1	6	1638	G
1	6	1657	U
1	6	1658	G
1	6	1696	G
1	6	1697	G
1	6	1698	G
1	6	1699	G
1	6	1700	C
1	6	1701	A
1	6	1702	A
1	6	1705	C
1	6	1710	U
1	6	1712	A
1	6	1715	G
1	6	1716	C
1	6	1717	G
1	6	1727	G
1	6	1731	A
1	6	1736	G

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Mol	Chain	Res	Type
1	6	1755	A
1	6	1760	G
1	6	1762	A
1	6	1766	A
1	6	1767	G
1	6	1769	U
1	6	1770	U
1	6	1780	G
1	6	1782	A
1	6	1783	C
1	6	1792	G
1	6	1793	G
1	6	1794	A
1	6	1795	U
1	6	1796	C
1	6	1799	U
1	6	1800	A
36	5	15	C
36	5	16	A
36	5	21	G
36	5	24	G
36	5	26	A
36	5	40	A
36	5	43	A
36	5	49	A
36	5	57	A
36	5	59	G
36	5	60	A
36	5	65	A
36	5	66	A
36	5	68	C
36	5	73	C
36	5	76	G
36	5	92	G
36	5	93	C
36	5	96	G
36	5	99	A
36	5	109	A
36	5	110	G
36	5	111	C
36	5	116	A
36	5	120	G

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Mol	Chain	Res	Type
36	5	121	A
36	5	122	A
36	5	133	U
36	5	134	U
36	5	135	C
36	5	136	G
36	5	150	A
36	5	152	U
36	5	156	G
36	5	157	A
36	5	165	A
36	5	166	C
36	5	170	G
36	5	171	G
36	5	173	G
36	5	174	C
36	5	178	U
36	5	182	U
36	5	183	G
36	5	184	U
36	5	187	A
36	5	190	U
36	5	191	U
36	5	200	C
36	5	201	A
36	5	210	U
36	5	213	A
36	5	218	G
36	5	219	A
36	5	221	A
36	5	236	G
36	5	239	G
36	5	240	U
36	5	244	G
36	5	248	U
36	5	249	U
36	5	250	U
36	5	251	G
36	5	252	U
36	5	253	A
36	5	254	A
36	5	269	G

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Mol	Chain	Res	Type
36	5	283	G
36	5	284	A
36	5	286	U
36	5	295	A
36	5	316	U
36	5	323	A
36	5	329	U
36	5	334	A
36	5	339	C
36	5	349	A
36	5	350	C
36	5	370	U
36	5	376	G
36	5	397	A
36	5	398	A
36	5	399	A
36	5	401	U
36	5	402	A
36	5	403	C
36	5	421	G
36	5	422	A
36	5	436	A
36	5	437	G
36	5	438	A
36	5	439	C
36	5	441	U
36	5	442	G
36	5	443	G
36	5	492	U
36	5	495	G
36	5	503	C
36	5	512	U
36	5	521	A
36	5	523	A
36	5	535	G
36	5	546	C
36	5	547	G
36	5	548	G
36	5	555	U
36	5	557	A
36	5	559	A
36	5	566	G

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Mol	Chain	Res	Type
36	5	569	A
36	5	578	A
36	5	579	G
36	5	581	U
36	5	592	A
36	5	594	U
36	5	595	G
36	5	600	G
36	5	604	G
36	5	609	G
36	5	611	A
36	5	619	A
36	5	620	U
36	5	621	A
36	5	636	C
36	5	647	A
36	5	648	C
36	5	649	A
36	5	651	G
36	5	653	A
36	5	660	A
36	5	662	U
36	5	675	C
36	5	677	A
36	5	681	U
36	5	691	A
36	5	705	A
36	5	708	G
36	5	712	G
36	5	715	A
36	5	716	A
36	5	725	G
36	5	726	G
36	5	727	G
36	5	736	A
36	5	760	G
36	5	766	U
36	5	767	U
36	5	768	C
36	5	776	U
36	5	777	U
36	5	780	A

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Mol	Chain	Res	Type
36	5	781	G
36	5	785	G
36	5	786	A
36	5	806	A
36	5	817	A
36	5	830	A
36	5	837	A
36	5	846	A
36	5	861	C
36	5	874	U
36	5	879	U
36	5	890	C
36	5	896	A
36	5	897	U
36	5	907	G
36	5	908	G
36	5	910	G
36	5	914	A
36	5	916	G
36	5	917	A
36	5	921	A
36	5	923	C
36	5	924	G
36	5	937	G
36	5	944	C
36	5	959	C
36	5	960	U
36	5	963	G
36	5	964	G
36	5	979	U
36	5	981	U
36	5	993	G
36	5	994	G
36	5	1000	C
36	5	1001	G
36	5	1002	A
36	5	1003	A
36	5	1006	A
36	5	1010	G
36	5	1015	U
36	5	1016	C
36	5	1017	C

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Mol	Chain	Res	Type
36	5	1018	G
36	5	1021	G
36	5	1024	G
36	5	1025	A
36	5	1026	A
36	5	1027	A
36	5	1028	U
36	5	1029	G
36	5	1032	C
36	5	1034	U
36	5	1035	G
36	5	1047	A
36	5	1049	C
36	5	1064	A
36	5	1065	A
36	5	1071	U
36	5	1072	G
36	5	1081	U
36	5	1082	U
36	5	1085	A
36	5	1088	U
36	5	1093	A
36	5	1094	U
36	5	1095	U
36	5	1096	U
36	5	1097	G
36	5	1098	A
36	5	1103	A
36	5	1104	G
36	5	1117	G
36	5	1131	G
36	5	1152	G
36	5	1153	A
36	5	1159	A
36	5	1160	C
36	5	1178	G
36	5	1180	A
36	5	1181	U
36	5	1182	A
36	5	1191	U
36	5	1192	C
36	5	1193	A

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Mol	Chain	Res	Type
36	5	1201	C
36	5	1202	A
36	5	1209	G
36	5	1222	G
36	5	1223	A
36	5	1232	C
36	5	1236	G
36	5	1237	G
36	5	1239	C
36	5	1241	U
36	5	1242	G
36	5	1245	A
36	5	1246	G
36	5	1252	A
36	5	1254	C
36	5	1259	A
36	5	1262	G
36	5	1263	A
36	5	1264	G
36	5	1265	U
36	5	1266	G
36	5	1285	G
36	5	1295	G
36	5	1307	G
36	5	1308	A
36	5	1309	U
36	5	1330	A
36	5	1349	G
36	5	1351	U
36	5	1352	A
36	5	1353	U
36	5	1354	G
36	5	1355	A
36	5	1356	U
36	5	1357	G
36	5	1380	G
36	5	1385	C
36	5	1386	A
36	5	1387	G
36	5	1399	A
36	5	1400	G
36	5	1418	A

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Mol	Chain	Res	Type
36	5	1419	A
36	5	1431	G
36	5	1432	C
36	5	1434	G
36	5	1437	C
36	5	1438	U
36	5	1446	A
36	5	1450	G
36	5	1460	A
36	5	1465	A
36	5	1480	G
36	5	1481	A
36	5	1482	A
36	5	1484	U
36	5	1490	A
36	5	1503	A
36	5	1508	C
36	5	1536	G
36	5	1539	A
36	5	1541	G
36	5	1553	U
36	5	1554	U
36	5	1555	U
36	5	1556	C
36	5	1557	A
36	5	1560	G
36	5	1561	G
36	5	1562	C
36	5	1566	A
36	5	1567	U
36	5	1569	U
36	5	1570	U
36	5	1571	A
36	5	1572	U
36	5	1574	C
36	5	1575	A
36	5	1576	G
36	5	1577	G
36	5	1578	C
36	5	1579	C
36	5	1580	A
36	5	1581	C

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Mol	Chain	Res	Type
36	5	1582	C
36	5	1583	A
36	5	1587	A
36	5	1589	A
36	5	1593	A
36	5	1605	A
36	5	1607	U
36	5	1608	C
36	5	1620	U
36	5	1629	U
36	5	1639	C
36	5	1643	A
36	5	1644	C
36	5	1645	U
36	5	1655	G
36	5	1657	C
36	5	1683	A
36	5	1716	U
36	5	1717	U
36	5	1724	U
36	5	1725	C
36	5	1736	G
36	5	1750	A
36	5	1751	G
36	5	1760	A
36	5	1762	C
36	5	1764	U
36	5	1765	U
36	5	1766	G
36	5	1770	G
36	5	1775	G
36	5	1778	G
36	5	1780	G
36	5	1781	C
36	5	1795	U
36	5	1797	A
36	5	1812	G
36	5	1814	A
36	5	1815	U
36	5	1816	A
36	5	1817	G
36	5	1818	U

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Mol	Chain	Res	Type
36	5	1820	U
36	5	1821	U
36	5	1839	A
36	5	1841	A
36	5	1842	A
36	5	1846	C
36	5	1849	C
36	5	1850	A
36	5	1878	G
36	5	1879	A
36	5	1880	U
36	5	1886	A
36	5	1891	A
36	5	1893	A
36	5	1906	G
36	5	1918	C
36	5	1935	G
36	5	1952	G
36	5	1953	G
36	5	2101	C
36	5	2102	U
36	5	2112	U
36	5	2113	A
36	5	2114	C
36	5	2121	G
36	5	2122	G
36	5	2128	C
36	5	2131	A
36	5	2144	A
36	5	2158	A
36	5	2169	G
36	5	2176	U
36	5	2188	A
36	5	2198	A
36	5	2201	G
36	5	2205	U
36	5	2210	G
36	5	2213	A
36	5	2222	A
36	5	2223	A
36	5	2225	U
36	5	2228	A

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Mol	Chain	Res	Type
36	5	2244	A
36	5	2250	G
36	5	2252	A
36	5	2253	G
36	5	2255	A
36	5	2256	A
36	5	2257	C
36	5	2258	U
36	5	2264	U
36	5	2273	G
36	5	2276	G
36	5	2279	A
36	5	2281	A
36	5	2288	G
36	5	2303	A
36	5	2307	G
36	5	2310	U
36	5	2313	A
36	5	2315	G
36	5	2318	U
36	5	2334	U
36	5	2335	G
36	5	2336	U
36	5	2337	C
36	5	2338	C
36	5	2373	A
36	5	2374	C
36	5	2375	G
36	5	2385	G
36	5	2393	G
36	5	2397	A
36	5	2398	A
36	5	2401	A
36	5	2402	A
36	5	2403	G
36	5	2404	A
36	5	2405	C
36	5	2411	U
36	5	2418	G
36	5	2419	A
36	5	2435	G
36	5	2436	U

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Mol	Chain	Res	Type
36	5	2437	G
36	5	2438	A
36	5	2439	A
36	5	2440	G
36	5	2441	A
36	5	2443	A
36	5	2504	U
36	5	2505	U
36	5	2507	C
36	5	2508	U
36	5	2510	U
36	5	2511	A
36	5	2512	C
36	5	2513	U
36	5	2514	U
36	5	2515	A
36	5	2522	G
36	5	2523	A
36	5	2524	A
36	5	2526	C
36	5	2530	G
36	5	2531	C
36	5	2532	U
36	5	2534	G
36	5	2537	U
36	5	2538	U
36	5	2539	C
36	5	2540	A
36	5	2543	U
36	5	2549	G
36	5	2552	C
36	5	2555	G
36	5	2566	C
36	5	2567	C
36	5	2568	C
36	5	2569	A
36	5	2570	U
36	5	2571	U
36	5	2572	C
36	5	2573	G
36	5	2574	G
36	5	2584	G

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Mol	Chain	Res	Type
36	5	2585	G
36	5	2589	G
36	5	2593	A
36	5	2594	C
36	5	2606	G
36	5	2607	G
36	5	2609	A
36	5	2610	G
36	5	2614	G
36	5	2615	G
36	5	2626	A
36	5	2637	A
36	5	2639	G
36	5	2652	U
36	5	2656	A
36	5	2667	A
36	5	2674	A
36	5	2677	G
36	5	2678	A
36	5	2681	U
36	5	2683	U
36	5	2689	A
36	5	2691	A
36	5	2694	A
36	5	2696	A
36	5	2705	A
36	5	2714	G
36	5	2726	C
36	5	2728	G
36	5	2729	U
36	5	2742	C
36	5	2752	U
36	5	2753	G
36	5	2762	A
36	5	2771	U
36	5	2772	C
36	5	2773	C
36	5	2777	G
36	5	2778	G
36	5	2779	A
36	5	2796	G
36	5	2800	G

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Mol	Chain	Res	Type
36	5	2801	A
36	5	2802	A
36	5	2810	C
36	5	2814	G
36	5	2817	A
36	5	2818	U
36	5	2819	A
36	5	2829	U
36	5	2843	U
36	5	2845	A
36	5	2849	C
36	5	2853	A
36	5	2871	G
36	5	2872	A
36	5	2873	U
36	5	2875	U
36	5	2876	C
36	5	2887	A
36	5	2889	C
36	5	2896	A
36	5	2899	C
36	5	2904	U
36	5	2923	U
36	5	2928	C
36	5	2935	U
36	5	2936	A
36	5	2942	C
36	5	2945	G
36	5	2947	G
36	5	2971	A
36	5	2972	G
36	5	2979	U
36	5	2983	C
36	5	2992	U
36	5	2996	U
36	5	2997	G
36	5	3012	A
36	5	3049	A
36	5	3050	U
36	5	3056	U
36	5	3059	G
36	5	3078	U

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Mol	Chain	Res	Type
36	5	3079	U
36	5	3080	G
36	5	3086	A
36	5	3092	C
36	5	3102	G
36	5	3122	A
36	5	3130	A
36	5	3131	U
36	5	3142	A
36	5	3143	C
36	5	3145	C
36	5	3152	U
36	5	3153	U
36	5	3155	U
36	5	3156	U
36	5	3157	U
36	5	3158	G
36	5	3164	C
36	5	3165	A
36	5	3168	A
36	5	3171	U
36	5	3172	A
36	5	3173	G
36	5	3174	A
36	5	3176	G
36	5	3179	U
36	5	3181	C
36	5	3187	A
36	5	3195	U
36	5	3196	U
36	5	3207	U
36	5	3217	C
36	5	3218	A
36	5	3219	G
36	5	3227	A
36	5	3229	G
36	5	3238	G
36	5	3239	G
36	5	3245	A
36	5	3246	G
36	5	3247	G
36	5	3253	G

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Mol	Chain	Res	Type
36	5	3259	U
36	5	3270	U
36	5	3275	U
36	5	3276	G
36	5	3277	U
36	5	3279	A
36	5	3280	U
36	5	3281	U
36	5	3282	U
36	5	3284	G
36	5	3285	C
36	5	3286	G
36	5	3288	G
36	5	3289	G
36	5	3290	G
36	5	3294	A
36	5	3304	U
36	5	3309	G
36	5	3313	U
36	5	3316	A
36	5	3317	U
36	5	3318	G
36	5	3319	U
36	5	3320	A
36	5	3341	U
36	5	3342	A
36	5	3345	G
36	5	3351	U
36	5	3352	U
36	5	3354	U
36	5	3356	G
36	5	3358	U
36	5	3363	U
36	5	3369	G
36	5	3378	C
36	5	3382	U
36	5	3389	U
36	5	3390	G
36	5	3391	A
36	5	3396	U
37	7	22	A
37	7	23	A

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Mol	Chain	Res	Type
37	7	27	A
37	7	33	U
37	7	41	G
37	7	54	U
37	7	60	G
37	7	64	A
37	7	65	G
37	7	73	C
37	7	99	G
37	7	101	G
37	7	102	A
37	7	103	A
37	7	104	A
37	7	112	G
38	8	20	U
38	8	21	C
38	8	34	U
38	8	35	C
38	8	42	G
38	8	48	A
38	8	51	G
38	8	52	A
38	8	53	A
38	8	59	A
38	8	62	C
38	8	63	G
38	8	79	A
38	8	80	A
38	8	81	U
38	8	82	U
38	8	83	C
38	8	84	C
38	8	86	U
38	8	87	G
38	8	90	U
38	8	95	G
38	8	102	U
38	8	104	A
38	8	105	A
38	8	106	C
38	8	111	A
38	8	112	U

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Mol	Chain	Res	Type
38	8	113	U
38	8	116	G
38	8	122	U
38	8	125	U
38	8	126	A
38	8	127	U
38	8	138	A
38	8	152	G
38	8	156	U
38	8	157	U
38	8	158	U
90	A	75	C
90	a	75	C

All (275) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2	25	C
1	2	45	U
1	2	68	A
1	2	73	U
1	2	74	U
1	2	103	A
1	2	114	C
1	2	130	C
1	2	131	C
1	2	132	U
1	2	133	U
1	2	136	C
1	2	139	C
1	2	158	U
1	2	187	G
1	2	217	A
1	2	218	A
1	2	232	U
1	2	240	U
1	2	278	U
1	2	280	U
1	2	321	C
1	2	417	A
1	2	484	C
1	2	497	G

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Mol	Chain	Res	Type
1	2	499	U
1	2	501	U
1	2	503	G
1	2	512	A
1	2	555	A
1	2	558	U
1	2	622	A
1	2	685	A
1	2	704	C
1	2	720	G
1	2	721	U
1	2	734	A
1	2	755	A
1	2	781	U
1	2	782	U
1	2	794	U
1	2	811	A
1	2	829	A
1	2	913	G
1	2	1051	G
1	2	1058	U
1	2	1081	A
1	2	1157	A
1	2	1196	A
1	2	1207	C
1	2	1226	A
1	2	1244	A
1	2	1250	U
1	2	1339	C
1	2	1344	A
1	2	1370	U
1	2	1481	C
1	2	1489	U
1	2	1490	C
1	2	1568	C
1	2	1573	A
1	2	1615	C
1	2	1657	U
1	2	1696	G
1	2	1698	G
1	2	1711	C
1	2	1761	U

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Mol	Chain	Res	Type
36	1	65	A
36	1	169	U
36	1	239	G
36	1	282	G
36	1	397	A
36	1	547	G
36	1	594	U
36	1	637	C
36	1	715	A
36	1	763	G
36	1	873	C
36	1	916	G
36	1	979	U
36	1	981	U
36	1	993	G
36	1	1064	A
36	1	1094	U
36	1	1097	G
36	1	1103	A
36	1	1181	U
36	1	1196	C
36	1	1273	A
36	1	1307	G
36	1	1329	U
36	1	1352	A
36	1	1355	A
36	1	1484	U
36	1	1562	C
36	1	1582	C
36	1	1716	U
36	1	1751	G
36	1	1815	U
36	1	1816	A
36	1	1820	U
36	1	1841	A
36	1	1842	A
36	1	2101	C
36	1	2112	U
36	1	2209	U
36	1	2227	C
36	1	2249	G
36	1	2281	A

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Mol	Chain	Res	Type
36	1	2372	A
36	1	2374	C
36	1	2418	G
36	1	2501	U
36	1	2513	U
36	1	2525	G
36	1	2537	U
36	1	2541	U
36	1	2554	A
36	1	2585	G
36	1	2593	A
36	1	2801	A
36	1	2818	U
36	1	2859	U
36	1	3078	U
36	1	3121	U
36	1	3195	U
36	1	3207	U
36	1	3218	A
36	1	3228	C
36	1	3269	U
36	1	3276	G
36	1	3316	A
36	1	3319	U
36	1	3350	C
36	1	3351	U
36	1	3353	G
36	1	3375	A
37	3	52	G
38	4	85	G
38	4	111	A
1	6	25	C
1	6	66	U
1	6	75	U
1	6	76	A
1	6	103	A
1	6	114	C
1	6	136	C
1	6	139	C
1	6	158	U
1	6	187	G
1	6	192	U

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Mol	Chain	Res	Type
1	6	217	A
1	6	240	U
1	6	272	U
1	6	277	U
1	6	417	A
1	6	512	A
1	6	542	A
1	6	555	A
1	6	558	U
1	6	651	G
1	6	667	U
1	6	678	A
1	6	697	C
1	6	717	C
1	6	755	A
1	6	829	A
1	6	834	G
1	6	1051	G
1	6	1058	U
1	6	1081	A
1	6	1097	U
1	6	1196	A
1	6	1207	C
1	6	1227	A
1	6	1244	A
1	6	1255	G
1	6	1344	A
1	6	1481	C
1	6	1490	C
1	6	1491	U
1	6	1535	U
1	6	1568	C
1	6	1573	A
1	6	1615	C
1	6	1620	C
1	6	1637	C
1	6	1657	U
1	6	1696	G
1	6	1698	G
1	6	1700	C
36	5	67	A
36	5	151	A

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Mol	Chain	Res	Type
36	5	183	G
36	5	238	A
36	5	282	G
36	5	397	A
36	5	438	A
36	5	546	C
36	5	647	A
36	5	715	A
36	5	735	A
36	5	765	C
36	5	786	A
36	5	816	A
36	5	873	C
36	5	896	A
36	5	916	G
36	5	993	G
36	5	1027	A
36	5	1033	U
36	5	1064	A
36	5	1081	U
36	5	1152	G
36	5	1181	U
36	5	1238	C
36	5	1241	U
36	5	1284	C
36	5	1307	G
36	5	1329	U
36	5	1331	U
36	5	1352	A
36	5	1355	A
36	5	1481	A
36	5	1554	U
36	5	1560	G
36	5	1580	A
36	5	1607	U
36	5	1716	U
36	5	1724	U
36	5	1816	A
36	5	1819	U
36	5	1841	A
36	5	1842	A
36	5	1846	C

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Mol	Chain	Res	Type
36	5	2101	C
36	5	2112	U
36	5	2204	C
36	5	2209	U
36	5	2249	G
36	5	2255	A
36	5	2257	C
36	5	2372	A
36	5	2373	A
36	5	2401	A
36	5	2440	G
36	5	2507	C
36	5	2513	U
36	5	2531	C
36	5	2593	A
36	5	2682	C
36	5	2728	G
36	5	2772	C
36	5	2801	A
36	5	2818	U
36	5	2872	A
36	5	2970	C
36	5	2971	A
36	5	2979	U
36	5	3078	U
36	5	3121	U
36	5	3154	C
36	5	3167	A
36	5	3195	U
36	5	3218	A
36	5	3228	C
36	5	3269	U
36	5	3275	U
36	5	3289	G
36	5	3317	U
36	5	3340	G
36	5	3341	U
36	5	3357	U
38	8	111	A
38	8	126	A

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

2 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	$\#\|Z\| > 2$
90	PPU	A	76	90,36	37,40,41	1.30	5 (13%)	48,57,60	2.18	14 (29%)
90	PPU	a	76	90,36	37,40,41	1.31	4 (10%)	48,57,60	2.13	14 (29%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
90	PPU	A	76	90,36	-	3/25/43/44	0/4/4/4
90	PPU	a	76	90,36	-	4/25/43/44	0/4/4/4

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
90	a	76	PPU	C5-C4	4.31	1.47	1.39
90	A	76	PPU	C5-C4	4.14	1.46	1.39
90	a	76	PPU	C2'-C3'	-2.87	1.48	1.53
90	a	76	PPU	C5-N7	-2.65	1.34	1.39
90	A	76	PPU	C5-N7	-2.52	1.34	1.39
90	a	76	PPU	C8-N7	2.28	1.35	1.31
90	A	76	PPU	C2'-C3'	-2.23	1.49	1.53
90	A	76	PPU	C8-N7	2.11	1.35	1.31
90	A	76	PPU	C5-C6	2.01	1.46	1.41

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
90	A	76	PPU	C5-C4-N3	-6.05	118.85	126.75
90	a	76	PPU	C5-C4-N3	-5.47	119.61	126.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
90	a	76	PPU	C3'-N3'-C	-5.38	115.10	123.21
90	A	76	PPU	C3'-N3'-C	-4.92	115.79	123.21
90	A	76	PPU	N3-C4-N9	4.69	134.81	127.08
90	a	76	PPU	CG-CB-CA	-4.45	104.87	114.13
90	a	76	PPU	C2-N1-C6	4.41	122.16	111.75
90	A	76	PPU	C2-N1-C6	4.26	121.83	111.75
90	a	76	PPU	N3-C4-N9	4.15	133.91	127.08
90	A	76	PPU	C2-N3-C4	3.94	121.07	111.75
90	a	76	PPU	C2-N3-C4	3.56	120.16	111.75
90	A	76	PPU	CA-C-N3'	3.52	121.03	116.15
90	A	76	PPU	N3-C2-N1	-3.46	123.18	128.60
90	a	76	PPU	C2'-C1'-N9	-3.36	104.80	113.30
90	a	76	PPU	N3-C2-N1	-3.35	123.36	128.60
90	A	76	PPU	C2'-C1'-N9	-3.18	105.24	113.30
90	a	76	PPU	C4-C5-N7	-3.06	106.89	110.62
90	a	76	PPU	CA-C-N3'	2.83	120.08	116.15
90	A	76	PPU	C4-C5-N7	-2.80	107.21	110.62
90	A	76	PPU	O4'-C4'-C3'	2.77	108.04	104.06
90	a	76	PPU	O2'-C2'-C3'	-2.76	104.42	111.16
90	A	76	PPU	CG-CB-CA	-2.59	108.75	114.13
90	a	76	PPU	C5-N7-C8	2.51	107.08	103.51
90	A	76	PPU	CD2-CG-CD1	2.40	121.94	118.17
90	A	76	PPU	C5-N7-C8	2.30	106.78	103.51
90	a	76	PPU	C6-C5-N7	2.24	137.04	133.28
90	A	76	PPU	N1-C6-N6	2.13	119.42	117.08
90	a	76	PPU	C4-N9-C8	2.02	107.92	105.73

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
90	A	76	PPU	C3'-C4'-C5'-O5'
90	a	76	PPU	CE2-CZ-OC-CM
90	a	76	PPU	CE1-CZ-OC-CM
90	A	76	PPU	O4'-C4'-C5'-O5'
90	a	76	PPU	CA-CB-CG-CD1
90	a	76	PPU	CA-CB-CG-CD2
90	A	76	PPU	N-CA-CB-CG

There are no ring outliers.

2 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
90	A	76	PPU	5	0
90	a	76	PPU	4	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 3553 ligands modelled in this entry, 2208 are monoatomic - leaving 1345 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	1	4457	92	0,6,6	-	-	-		
92	OHX	5	4529	-	0,6,6	-	-	-		
92	OHX	1	4504	92	0,6,6	-	-	-		
92	OHX	A	101	90	0,6,6	-	-	-		
92	OHX	5	4189	-	0,6,6	-	-	-		
92	OHX	1	4413	92	0,6,6	-	-	-		
92	OHX	5	4349	92	0,6,6	-	-	-		
92	OHX	6	2214	92	0,6,6	-	-	-		
92	OHX	2	2143	92	0,6,6	-	-	-		
92	OHX	6	2191	91,92	0,6,6	-	-	-		
92	OHX	1	4251	92	0,6,6	-	-	-		
92	OHX	2	2182	-	0,6,6	-	-	-		
92	OHX	1	4487	92	0,6,6	-	-	-		
92	OHX	5	4530	92	0,6,6	-	-	-		
92	OHX	1	4233	-	0,6,6	-	-	-		
92	OHX	1	4361	91,92	0,6,6	-	-	-		
92	OHX	5	4506	92	0,6,6	-	-	-		
92	OHX	2	2075	92	0,6,6	-	-	-		
92	OHX	6	2306	-	0,6,6	-	-	-		
92	OHX	2	2119	-	0,6,6	-	-	-		
92	OHX	5	4224	91	0,6,6	-	-	-		
92	OHX	5	4226	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	2	2148	92	0,6,6	-	-	-		
92	OHX	5	4265	-	0,6,6	-	-	-		
92	OHX	1	4280	-	0,6,6	-	-	-		
92	OHX	4	235	-	0,6,6	-	-	-		
92	OHX	2	2106	-	0,6,6	-	-	-		
92	OHX	2	2113	92	0,6,6	-	-	-		
92	OHX	8	229	-	0,6,6	-	-	-		
92	OHX	1	4427	36	0,6,6	-	-	-		
92	OHX	2	2110	91	0,6,6	-	-	-		
92	OHX	2	2086	91,92	0,6,6	-	-	-		
92	OHX	2	2218	1	0,6,6	-	-	-		
92	OHX	5	4427	-	0,6,6	-	-	-		
92	OHX	5	4472	91	0,6,6	-	-	-		
92	OHX	1	4401	92	0,6,6	-	-	-		
92	OHX	5	4168	-	0,6,6	-	-	-		
92	OHX	5	4337	92	0,6,6	-	-	-		
92	OHX	6	2325	92	0,6,6	-	-	-		
92	OHX	5	4463	-	0,6,6	-	-	-		
92	OHX	5	4203	91,92	0,6,6	-	-	-		
92	OHX	5	4345	91	0,6,6	-	-	-		
92	OHX	5	4453	92	0,6,6	-	-	-		
92	OHX	5	4291	92	0,6,6	-	-	-		
92	OHX	5	4383	91,92	0,6,6	-	-	-		
92	OHX	6	2270	-	0,6,6	-	-	-		
92	OHX	1	4167	-	0,6,6	-	-	-		
92	OHX	1	4154	-	0,6,6	-	-	-		
92	OHX	5	4252	92	0,6,6	-	-	-		
92	OHX	1	4149	91	0,6,6	-	-	-		
92	OHX	m7	208	-	0,6,6	-	-	-		
92	OHX	5	4390	-	0,6,6	-	-	-		
92	OHX	5	4536	-	0,6,6	-	-	-		
92	OHX	2	2166	92	0,6,6	-	-	-		
92	OHX	2	2168	-	0,6,6	-	-	-		
92	OHX	2	2125	-	0,6,6	-	-	-		
92	OHX	1	4304	-	0,6,6	-	-	-		
92	OHX	1	4397	-	0,6,6	-	-	-		
92	OHX	5	4488	-	0,6,6	-	-	-		
92	OHX	2	2154	-	0,6,6	-	-	-		
92	OHX	6	2206	91	0,6,6	-	-	-		
92	OHX	2	2174	-	0,6,6	-	-	-		
92	OHX	1	4164	91,36	0,6,6	-	-	-		
92	OHX	5	4371	-	0,6,6	-	-	-		
92	OHX	6	2300	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
92	OHX	5	4164	-	0,6,6	-	-	-		
92	OHX	2	2092	91	0,6,6	-	-	-		
92	OHX	2	2095	91	0,6,6	-	-	-		
92	OHX	1	4197	92	0,6,6	-	-	-		
92	OHX	1	4270	91	0,6,6	-	-	-		
92	OHX	1	4176	-	0,6,6	-	-	-		
92	OHX	5	4271	36	0,6,6	-	-	-		
92	OHX	5	4455	91	0,6,6	-	-	-		
92	OHX	5	4512	-	0,6,6	-	-	-		
92	OHX	1	4259	91	0,6,6	-	-	-		
92	OHX	2	2142	-	0,6,6	-	-	-		
92	OHX	1	4308	91	0,6,6	-	-	-		
92	OHX	M0	308	92	0,6,6	-	-	-		
92	OHX	5	4293	92	0,6,6	-	-	-		
92	OHX	2	2216	92	0,6,6	-	-	-		
92	OHX	1	4468	92	0,6,6	-	-	-		
92	OHX	2	2249	92	0,6,6	-	-	-		
92	OHX	1	4452	92	0,6,6	-	-	-		
92	OHX	1	4202	36	0,6,6	-	-	-		
92	OHX	5	4308	91	0,6,6	-	-	-		
92	OHX	1	4384	91	0,6,6	-	-	-		
92	OHX	5	4539	92	0,6,6	-	-	-		
92	OHX	1	4212	-	0,6,6	-	-	-		
92	OHX	1	4347	91,92	0,6,6	-	-	-		
92	OHX	2	2234	-	0,6,6	-	-	-		
92	OHX	5	4423	36,92	0,6,6	-	-	-		
92	OHX	5	4331	91	0,6,6	-	-	-		
92	OHX	1	4312	-	0,6,6	-	-	-		
92	OHX	2	2121	91	0,6,6	-	-	-		
92	OHX	6	2197	1	0,6,6	-	-	-		
92	OHX	5	4552	91,92	0,6,6	-	-	-		
92	OHX	1	4435	92	0,6,6	-	-	-		
92	OHX	5	4162	-	0,6,6	-	-	-		
92	OHX	5	4435	91	0,6,6	-	-	-		
92	OHX	5	4516	91	0,6,6	-	-	-		
92	OHX	1	4388	-	0,6,6	-	-	-		
92	OHX	5	4414	-	0,6,6	-	-	-		
92	OHX	n3	204	91	0,6,6	-	-	-		
92	OHX	1	4467	92	0,6,6	-	-	-		
92	OHX	1	4473	92	0,6,6	-	-	-		
92	OHX	5	4563	-	0,6,6	-	-	-		
92	OHX	2	2097	91	0,6,6	-	-	-		
92	OHX	c3	201	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4388	91,36	0,6,6	-	-	-		
92	OHX	2	2132	-	0,6,6	-	-	-		
92	OHX	2	2222	91,92	0,6,6	-	-	-		
92	OHX	1	4144	-	0,6,6	-	-	-		
92	OHX	5	4223	-	0,6,6	-	-	-		
92	OHX	1	4455	-	0,6,6	-	-	-		
92	OHX	l3	413	-	0,6,6	-	-	-		
92	OHX	5	4411	91	0,6,6	-	-	-		
92	OHX	1	4107	-	0,6,6	-	-	-		
92	OHX	2	2096	-	0,6,6	-	-	-		
92	OHX	1	4272	91,92	0,6,6	-	-	-		
92	OHX	6	2243	-	0,6,6	-	-	-		
92	OHX	5	4244	-	0,6,6	-	-	-		
92	OHX	6	2236	-	0,6,6	-	-	-		
92	OHX	1	4170	92	0,6,6	-	-	-		
92	OHX	6	2215	-	0,6,6	-	-	-		
92	OHX	4	245	-	0,6,6	-	-	-		
92	OHX	1	4235	-	0,6,6	-	-	-		
92	OHX	1	4237	-	0,6,6	-	-	-		
92	OHX	5	4274	-	0,6,6	-	-	-		
92	OHX	O3	204	91	0,6,6	-	-	-		
92	OHX	1	4367	-	0,6,6	-	-	-		
92	OHX	2	2227	92	0,6,6	-	-	-		
92	OHX	o2	204	-	0,6,6	-	-	-		
92	OHX	5	4561	92	0,6,6	-	-	-		
92	OHX	5	4566	91,92	0,6,6	-	-	-		
92	OHX	6	2178	-	0,6,6	-	-	-		
92	OHX	sR	401	-	0,6,6	-	-	-		
92	OHX	5	4329	-	0,6,6	-	-	-		
92	OHX	1	4249	-	0,6,6	-	-	-		
92	OHX	2	2196	1	0,6,6	-	-	-		
92	OHX	5	4367	91	0,6,6	-	-	-		
92	OHX	5	4283	91	0,6,6	-	-	-		
92	OHX	5	4296	91	0,6,6	-	-	-		
92	OHX	5	3401	1	0,6,6	-	-	-		
92	OHX	5	4312	92	0,6,6	-	-	-		
92	OHX	1	4414	92	0,6,6	-	-	-		
92	OHX	5	4249	-	0,6,6	-	-	-		
92	OHX	1	4266	92	0,6,6	-	-	-		
92	OHX	5	4399	91,36	0,6,6	-	-	-		
92	OHX	5	4469	91	0,6,6	-	-	-		
92	OHX	2	2126	91	0,6,6	-	-	-		
92	OHX	1	4320	36	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4266	92	0,6,6	-	-	-		
92	OHX	8	235	-	0,6,6	-	-	-		
92	OHX	5	4320	92	0,6,6	-	-	-		
92	OHX	5	4351	-	0,6,6	-	-	-		
92	OHX	1	4338	92	0,6,6	-	-	-		
92	OHX	1	4418	91	0,6,6	-	-	-		
92	OHX	7	238	91,92	0,6,6	-	-	-		
92	OHX	5	4409	36	0,6,6	-	-	-		
92	OHX	1	4476	92	0,6,6	-	-	-		
92	OHX	1	4276	-	0,6,6	-	-	-		
92	OHX	4	247	91,92	0,6,6	-	-	-		
92	OHX	6	2196	92	0,6,6	-	-	-		
92	OHX	5	4177	-	0,6,6	-	-	-		
92	OHX	1	4293	-	0,6,6	-	-	-		
92	OHX	2	2088	-	0,6,6	-	-	-		
92	OHX	1	4119	91	0,6,6	-	-	-		
92	OHX	8	233	-	0,6,6	-	-	-		
92	OHX	1	4343	91	0,6,6	-	-	-		
92	OHX	5	4281	-	0,6,6	-	-	-		
92	OHX	m0	304	92	0,6,6	-	-	-		
92	OHX	1	4192	-	0,6,6	-	-	-		
92	OHX	o7	105	-	0,6,6	-	-	-		
92	OHX	5	4333	92	0,6,6	-	-	-		
92	OHX	1	4406	92	0,6,6	-	-	-		
92	OHX	3	221	91	0,6,6	-	-	-		
92	OHX	5	4551	92	0,6,6	-	-	-		
92	OHX	5	4335	-	0,6,6	-	-	-		
92	OHX	5	4522	92	0,6,6	-	-	-		
92	OHX	6	2246	91	0,6,6	-	-	-		
92	OHX	1	4258	91	0,6,6	-	-	-		
92	OHX	1	4128	91	0,6,6	-	-	-		
92	OHX	7	201	91,92	0,6,6	-	-	-		
92	OHX	1	4398	91	0,6,6	-	-	-		
92	OHX	1	4352	-	0,6,6	-	-	-		
92	OHX	1	4247	-	0,6,6	-	-	-		
92	OHX	S2	303	92	0,6,6	-	-	-		
92	OHX	c5	201	-	0,6,6	-	-	-		
92	OHX	5	4481	92	0,6,6	-	-	-		
92	OHX	5	4442	-	0,6,6	-	-	-		
92	OHX	5	4287	-	0,6,6	-	-	-		
92	OHX	1	4269	91	0,6,6	-	-	-		
92	OHX	1	4375	-	0,6,6	-	-	-		
92	OHX	1	4307	92	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	6	2190	92,1	0,6,6	-	-	-		
92	OHX	5	4269	91,92	0,6,6	-	-	-		
92	OHX	1	4271	91	0,6,6	-	-	-		
92	OHX	5	4391	92	0,6,6	-	-	-		
92	OHX	2	2256	92	0,6,6	-	-	-		
92	OHX	2	2138	92	0,6,6	-	-	-		
92	OHX	a	101	90,92	0,6,6	-	-	-		
92	OHX	2	2078	-	0,6,6	-	-	-		
92	OHX	6	2171	91	0,6,6	-	-	-		
92	OHX	5	4282	91	0,6,6	-	-	-		
92	OHX	1	4230	91	0,6,6	-	-	-		
92	OHX	6	2200	-	0,6,6	-	-	-		
92	OHX	1	4187	92	0,6,6	-	-	-		
92	OHX	5	4241	-	0,6,6	-	-	-		
92	OHX	6	2310	92	0,6,6	-	-	-		
92	OHX	1	4443	-	0,6,6	-	-	-		
92	OHX	1	4254	91	0,6,6	-	-	-		
92	OHX	1	4160	-	0,6,6	-	-	-		
92	OHX	5	4267	91	0,6,6	-	-	-		
92	OHX	1	4426	-	0,6,6	-	-	-		
92	OHX	1	4204	-	0,6,6	-	-	-		
92	OHX	5	4250	91	0,6,6	-	-	-		
92	OHX	2	2224	-	0,6,6	-	-	-		
92	OHX	1	4333	91	0,6,6	-	-	-		
92	OHX	1	4169	91,92	0,6,6	-	-	-		
92	OHX	C5	202	17	0,6,6	-	-	-		
92	OHX	6	2199	91,1	0,6,6	-	-	-		
92	OHX	6	2278	-	0,6,6	-	-	-		
92	OHX	2	2100	-	0,6,6	-	-	-		
92	OHX	6	2194	92	0,6,6	-	-	-		
92	OHX	8	226	92	0,6,6	-	-	-		
92	OHX	5	4169	-	0,6,6	-	-	-		
92	OHX	1	4465	-	0,6,6	-	-	-		
92	OHX	1	4182	-	0,6,6	-	-	-		
92	OHX	5	4532	-	0,6,6	-	-	-		
92	OHX	2	2102	-	0,6,6	-	-	-		
92	OHX	5	4465	91,92	0,6,6	-	-	-		
92	OHX	5	4511	92	0,6,6	-	-	-		
92	OHX	1	4228	92	0,6,6	-	-	-		
92	OHX	5	4480	91,92	0,6,6	-	-	-		
92	OHX	1	4331	91	0,6,6	-	-	-		
92	OHX	5	4160	-	0,6,6	-	-	-		
92	OHX	6	2339	92	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	L3	408	-	0,6,6	-	-	-		
92	OHX	2	2173	-	0,6,6	-	-	-		
92	OHX	1	4447	91	0,6,6	-	-	-		
92	OHX	5	4247	91	0,6,6	-	-	-		
92	OHX	5	4521	36	0,6,6	-	-	-		
92	OHX	6	2164	-	0,6,6	-	-	-		
92	OHX	1	4362	-	0,6,6	-	-	-		
92	OHX	5	4377	91	0,6,6	-	-	-		
92	OHX	5	4385	92	0,6,6	-	-	-		
92	OHX	5	4496	36	0,6,6	-	-	-		
92	OHX	6	2326	1	0,6,6	-	-	-		
92	OHX	5	4495	91	0,6,6	-	-	-		
92	OHX	5	4208	-	0,6,6	-	-	-		
92	OHX	2	2127	-	0,6,6	-	-	-		
92	OHX	2	2231	-	0,6,6	-	-	-		
92	OHX	5	4324	91,92	0,6,6	-	-	-		
92	OHX	5	4229	92	0,6,6	-	-	-		
92	OHX	5	4179	-	0,6,6	-	-	-		
92	OHX	2	2219	-	0,6,6	-	-	-		
92	OHX	1	4264	-	0,6,6	-	-	-		
92	OHX	5	4264	92	0,6,6	-	-	-		
92	OHX	1	4117	-	0,6,6	-	-	-		
92	OHX	2	2254	92	0,6,6	-	-	-		
92	OHX	5	4437	92	0,6,6	-	-	-		
92	OHX	1	4183	-	0,6,6	-	-	-		
92	OHX	6	2185	-	0,6,6	-	-	-		
92	OHX	6	2229	-	0,6,6	-	-	-		
92	OHX	8	239	92	0,6,6	-	-	-		
92	OHX	1	4346	91	0,6,6	-	-	-		
92	OHX	2	2118	-	0,6,6	-	-	-		
92	OHX	M0	305	92	0,6,6	-	-	-		
92	OHX	6	2274	92	0,6,6	-	-	-		
92	OHX	5	4233	92	0,6,6	-	-	-		
92	OHX	1	4108	-	0,6,6	-	-	-		
92	OHX	3	228	92	0,6,6	-	-	-		
92	OHX	5	4340	-	0,6,6	-	-	-		
92	OHX	5	4236	91	0,6,6	-	-	-		
92	OHX	4	238	-	0,6,6	-	-	-		
92	OHX	L3	407	-	0,6,6	-	-	-		
92	OHX	1	4112	-	0,6,6	-	-	-		
92	OHX	5	4222	92	0,6,6	-	-	-		
92	OHX	6	2170	1	0,6,6	-	-	-		
92	OHX	5	4364	91	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
92	OHX	C3	201	-	0,6,6	-	-	-		
92	OHX	5	4540	36	0,6,6	-	-	-		
92	OHX	5	4454	91	0,6,6	-	-	-		
92	OHX	1	4389	92	0,6,6	-	-	-		
92	OHX	5	4212	-	0,6,6	-	-	-		
92	OHX	1	4165	-	0,6,6	-	-	-		
92	OHX	1	4123	91	0,6,6	-	-	-		
92	OHX	1	4201	-	0,6,6	-	-	-		
92	OHX	1	4206	92	0,6,6	-	-	-		
92	OHX	6	2148	-	0,6,6	-	-	-		
92	OHX	5	4549	-	0,6,6	-	-	-		
92	OHX	1	4193	-	0,6,6	-	-	-		
92	OHX	2	2247	91,92	0,6,6	-	-	-		
92	OHX	M0	306	92	0,6,6	-	-	-		
92	OHX	5	4165	-	0,6,6	-	-	-		
92	OHX	5	4489	36	0,6,6	-	-	-		
92	OHX	1	4479	92	0,6,6	-	-	-		
92	OHX	5	4193	-	0,6,6	-	-	-		
92	OHX	6	2259	91	0,6,6	-	-	-		
92	OHX	1	4416	91	0,6,6	-	-	-		
92	OHX	2	2199	92	0,6,6	-	-	-		
92	OHX	2	2161	91,1	0,6,6	-	-	-		
92	OHX	1	4132	-	0,6,6	-	-	-		
92	OHX	1	4250	-	0,6,6	-	-	-		
92	OHX	1	4446	36,92	0,6,6	-	-	-		
92	OHX	6	2160	-	0,6,6	-	-	-		
92	OHX	l5	308	-	0,6,6	-	-	-		
92	OHX	6	2175	91	0,6,6	-	-	-		
92	OHX	5	4497	-	0,6,6	-	-	-		
92	OHX	5	4483	92	0,6,6	-	-	-		
92	OHX	Q2	505	91	0,6,6	-	-	-		
92	OHX	5	4507	91	0,6,6	-	-	-		
92	OHX	m1	203	-	0,6,6	-	-	-		
92	OHX	5	4339	91	0,6,6	-	-	-		
92	OHX	5	4183	-	0,6,6	-	-	-		
92	OHX	6	2166	91	0,6,6	-	-	-		
92	OHX	6	2168	-	0,6,6	-	-	-		
92	OHX	5	4191	91	0,6,6	-	-	-		
92	OHX	6	2301	-	0,6,6	-	-	-		
92	OHX	6	2264	-	0,6,6	-	-	-		
92	OHX	1	4238	92	0,6,6	-	-	-		
92	OHX	1	4449	91	0,6,6	-	-	-		
92	OHX	5	4200	92	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	6	2181	92	0,6,6	-	-	-		
92	OHX	5	4449	92	0,6,6	-	-	-		
92	OHX	5	4176	91	0,6,6	-	-	-		
92	OHX	5	4524	36	0,6,6	-	-	-		
92	OHX	1	4474	91	0,6,6	-	-	-		
92	OHX	8	234	38,91	0,6,6	-	-	-		
92	OHX	m4	202	-	0,6,6	-	-	-		
92	OHX	6	2161	92	0,6,6	-	-	-		
92	OHX	1	4422	-	0,6,6	-	-	-		
92	OHX	5	4387	36	0,6,6	-	-	-		
92	OHX	1	4219	91	0,6,6	-	-	-		
92	OHX	2	2077	92,1	0,6,6	-	-	-		
92	OHX	3	230	92	0,6,6	-	-	-		
92	OHX	2	2153	91	0,6,6	-	-	-		
92	OHX	4	242	91	0,6,6	-	-	-		
92	OHX	1	4109	-	0,6,6	-	-	-		
92	OHX	5	4473	-	0,6,6	-	-	-		
92	OHX	2	2094	-	0,6,6	-	-	-		
92	OHX	1	4466	92	0,6,6	-	-	-		
92	OHX	5	4206	92	0,6,6	-	-	-		
92	OHX	5	4482	92	0,6,6	-	-	-		
92	OHX	6	2328	-	0,6,6	-	-	-		
92	OHX	s4	302	-	0,6,6	-	-	-		
92	OHX	2	2236	91,92	0,6,6	-	-	-		
92	OHX	1	4329	91	0,6,6	-	-	-		
92	OHX	5	4416	-	0,6,6	-	-	-		
92	OHX	1	4150	-	0,6,6	-	-	-		
92	OHX	6	2210	91	0,6,6	-	-	-		
92	OHX	2	2214	1	0,6,6	-	-	-		
92	OHX	2	2220	1	0,6,6	-	-	-		
92	OHX	5	4248	-	0,6,6	-	-	-		
92	OHX	1	4256	-	0,6,6	-	-	-		
92	OHX	2	2156	92	0,6,6	-	-	-		
92	OHX	1	4499	92	0,6,6	-	-	-		
92	OHX	1	4277	91	0,6,6	-	-	-		
92	OHX	5	4410	91,92	0,6,6	-	-	-		
92	OHX	1	4478	92	0,6,6	-	-	-		
92	OHX	5	4562	91	0,6,6	-	-	-		
92	OHX	5	4277	-	0,6,6	-	-	-		
92	OHX	5	4300	-	0,6,6	-	-	-		
92	OHX	5	4380	-	0,6,6	-	-	-		
92	OHX	5	4436	-	0,6,6	-	-	-		
92	OHX	2	2151	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4240	36	0,6,6	-	-	-		
92	OHX	1	4368	-	0,6,6	-	-	-		
92	OHX	2	2202	-	0,6,6	-	-	-		
92	OHX	6	2187	91	0,6,6	-	-	-		
92	OHX	2	2069	-	0,6,6	-	-	-		
92	OHX	5	4360	-	0,6,6	-	-	-		
92	OHX	6	2329	92	0,6,6	-	-	-		
92	OHX	5	4445	91	0,6,6	-	-	-		
92	OHX	5	4285	92	0,6,6	-	-	-		
92	OHX	6	2186	91	0,6,6	-	-	-		
92	OHX	2	2133	92	0,6,6	-	-	-		
92	OHX	1	4464	91	0,6,6	-	-	-		
92	OHX	6	2216	92	0,6,6	-	-	-		
92	OHX	1	4215	91	0,6,6	-	-	-		
92	OHX	1	4356	-	0,6,6	-	-	-		
92	OHX	5	4405	-	0,6,6	-	-	-		
92	OHX	5	4430	-	0,6,6	-	-	-		
92	OHX	1	4340	-	0,6,6	-	-	-		
92	OHX	1	4492	92	0,6,6	-	-	-		
92	OHX	O1	202	91,92	0,6,6	-	-	-		
92	OHX	2	2079	91	0,6,6	-	-	-		
92	OHX	1	4220	-	0,6,6	-	-	-		
92	OHX	6	2317	-	0,6,6	-	-	-		
92	OHX	4	241	-	0,6,6	-	-	-		
92	OHX	1	4318	91	0,6,6	-	-	-		
92	OHX	5	4492	-	0,6,6	-	-	-		
92	OHX	1	4302	92	0,6,6	-	-	-		
92	OHX	1	4337	91	0,6,6	-	-	-		
92	OHX	1	4459	91,36,92	0,6,6	-	-	-		
92	OHX	6	2308	92	0,6,6	-	-	-		
92	OHX	1	4339	-	0,6,6	-	-	-		
92	OHX	1	4444	-	0,6,6	-	-	-		
92	OHX	1	4125	91	0,6,6	-	-	-		
92	OHX	5	4515	92	0,6,6	-	-	-		
92	OHX	2	2158	92	0,6,6	-	-	-		
92	OHX	m5	304	-	0,6,6	-	-	-		
92	OHX	5	4444	-	0,6,6	-	-	-		
92	OHX	5	4418	91	0,6,6	-	-	-		
92	OHX	5	4564	92	0,6,6	-	-	-		
92	OHX	5	4501	91	0,6,6	-	-	-		
92	OHX	6	2277	91	0,6,6	-	-	-		
92	OHX	c5	202	-	0,6,6	-	-	-		
92	OHX	8	237	38	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4313	-	0,6,6	-	-	-		
92	OHX	2	2235	92	0,6,6	-	-	-		
92	OHX	d9	104	92	0,6,6	-	-	-		
92	OHX	o9	102	91	0,6,6	-	-	-		
92	OHX	1	4306	91,92	0,6,6	-	-	-		
92	OHX	5	4216	91,92	0,6,6	-	-	-		
92	OHX	1	4498	-	0,6,6	-	-	-		
92	OHX	5	4431	-	0,6,6	-	-	-		
92	OHX	2	2114	-	0,6,6	-	-	-		
92	OHX	1	4260	-	0,6,6	-	-	-		
92	OHX	8	222	92	0,6,6	-	-	-		
92	OHX	5	4258	91,92	0,6,6	-	-	-		
92	OHX	1	4412	92	0,6,6	-	-	-		
92	OHX	5	4456	-	0,6,6	-	-	-		
92	OHX	6	2289	-	0,6,6	-	-	-		
92	OHX	5	4227	91	0,6,6	-	-	-		
92	OHX	1	4438	-	0,6,6	-	-	-		
92	OHX	5	4460	-	0,6,6	-	-	-		
92	OHX	2	2072	-	0,6,6	-	-	-		
92	OHX	5	4545	92	0,6,6	-	-	-		
92	OHX	5	4556	91,36,92	0,6,6	-	-	-		
92	OHX	1	4395	92	0,6,6	-	-	-		
92	OHX	1	4417	36	0,6,6	-	-	-		
92	OHX	1	4344	-	0,6,6	-	-	-		
92	OHX	5	4448	91	0,6,6	-	-	-		
92	OHX	1	4350	-	0,6,6	-	-	-		
92	OHX	5	4533	-	0,6,6	-	-	-		
92	OHX	2	2081	91	0,6,6	-	-	-		
92	OHX	2	2082	-	0,6,6	-	-	-		
92	OHX	6	2279	91	0,6,6	-	-	-		
92	OHX	6	2294	91,92,1	0,6,6	-	-	-		
92	OHX	6	2224	-	0,6,6	-	-	-		
92	OHX	6	2195	-	0,6,6	-	-	-		
92	OHX	2	2109	-	0,6,6	-	-	-		
92	OHX	1	4148	92	0,6,6	-	-	-		
92	OHX	4	248	-	0,6,6	-	-	-		
92	OHX	5	4301	-	0,6,6	-	-	-		
92	OHX	5	4254	36	0,6,6	-	-	-		
92	OHX	1	4143	91,92	0,6,6	-	-	-		
92	OHX	1	4407	92	0,6,6	-	-	-		
92	OHX	6	2286	92	0,6,6	-	-	-		
92	OHX	6	2281	-	0,6,6	-	-	-		
92	OHX	7	239	91	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	1	4378	91,36	0,6,6	-	-	-		
92	OHX	1	4113	-	0,6,6	-	-	-		
92	OHX	1	4225	-	0,6,6	-	-	-		
92	OHX	1	4138	91	0,6,6	-	-	-		
92	OHX	5	4523	92	0,6,6	-	-	-		
92	OHX	5	4225	-	0,6,6	-	-	-		
92	OHX	6	2258	92	0,6,6	-	-	-		
92	OHX	5	4425	-	0,6,6	-	-	-		
92	OHX	2	2162	-	0,6,6	-	-	-		
92	OHX	6	2311	92	0,6,6	-	-	-		
92	OHX	2	2083	92	0,6,6	-	-	-		
92	OHX	6	2319	-	0,6,6	-	-	-		
92	OHX	5	4450	36	0,6,6	-	-	-		
92	OHX	6	2238	-	0,6,6	-	-	-		
92	OHX	1	4181	92	0,6,6	-	-	-		
92	OHX	5	4468	-	0,6,6	-	-	-		
92	OHX	5	4262	-	0,6,6	-	-	-		
92	OHX	5	4384	-	0,6,6	-	-	-		
92	OHX	1	4161	92	0,6,6	-	-	-		
92	OHX	1	4240	91	0,6,6	-	-	-		
92	OHX	3	226	92	0,6,6	-	-	-		
92	OHX	5	4393	91	0,6,6	-	-	-		
92	OHX	1	4291	92	0,6,6	-	-	-		
92	OHX	5	4447	-	0,6,6	-	-	-		
92	OHX	1	4274	-	0,6,6	-	-	-		
92	OHX	5	4348	92	0,6,6	-	-	-		
92	OHX	5	4161	-	0,6,6	-	-	-		
92	OHX	c8	204	-	0,6,6	-	-	-		
92	OHX	1	4141	-	0,6,6	-	-	-		
92	OHX	5	4362	-	0,6,6	-	-	-		
92	OHX	2	2217	-	0,6,6	-	-	-		
92	OHX	5	4294	-	0,6,6	-	-	-		
92	OHX	5	4420	91	0,6,6	-	-	-		
92	OHX	1	4335	91	0,6,6	-	-	-		
92	OHX	5	4534	36	0,6,6	-	-	-		
92	OHX	6	2149	91,92	0,6,6	-	-	-		
92	OHX	1	4186	92	0,6,6	-	-	-		
92	OHX	5	4186	91	0,6,6	-	-	-		
92	OHX	6	2276	91	0,6,6	-	-	-		
92	OHX	2	2120	1	0,6,6	-	-	-		
92	OHX	5	4396	-	0,6,6	-	-	-		
92	OHX	5	4318	91	0,6,6	-	-	-		
92	OHX	2	2104	91	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	2	2139	-	0,6,6	-	-	-		
92	OHX	5	4221	91	0,6,6	-	-	-		
92	OHX	5	4204	-	0,6,6	-	-	-		
92	OHX	1	4297	-	0,6,6	-	-	-		
92	OHX	6	2245	92	0,6,6	-	-	-		
92	OHX	5	4485	92	0,6,6	-	-	-		
92	OHX	2	2177	91	0,6,6	-	-	-		
92	OHX	1	4425	-	0,6,6	-	-	-		
92	OHX	2	2198	92	0,6,6	-	-	-		
92	OHX	5	4198	91	0,6,6	-	-	-		
92	OHX	5	4309	-	0,6,6	-	-	-		
92	OHX	1	4456	91	0,6,6	-	-	-		
92	OHX	SR	401	-	0,6,6	-	-	-		
92	OHX	1	4311	-	0,6,6	-	-	-		
92	OHX	7	230	-	0,6,6	-	-	-		
92	OHX	1	4281	92	0,6,6	-	-	-		
92	OHX	l5	310	-	0,6,6	-	-	-		
92	OHX	5	4235	-	0,6,6	-	-	-		
92	OHX	1	4383	-	0,6,6	-	-	-		
92	OHX	5	4330	-	0,6,6	-	-	-		
92	OHX	5	4239	-	0,6,6	-	-	-		
92	OHX	1	4295	92	0,6,6	-	-	-		
92	OHX	1	4390	91,92	0,6,6	-	-	-		
92	OHX	1	4503	92	0,6,6	-	-	-		
92	OHX	2	2209	-	0,6,6	-	-	-		
92	OHX	5	4342	91	0,6,6	-	-	-		
92	OHX	5	4510	-	0,6,6	-	-	-		
92	OHX	1	4429	-	0,6,6	-	-	-		
92	OHX	6	2177	-	0,6,6	-	-	-		
92	OHX	1	4180	91,92	0,6,6	-	-	-		
92	OHX	1	4287	91,92	0,6,6	-	-	-		
92	OHX	6	2184	-	0,6,6	-	-	-		
92	OHX	6	2180	92	0,6,6	-	-	-		
92	OHX	6	2271	-	0,6,6	-	-	-		
92	OHX	1	4221	-	0,6,6	-	-	-		
92	OHX	2	2248	92	0,6,6	-	-	-		
92	OHX	2	2163	-	0,6,6	-	-	-		
92	OHX	5	4315	92	0,6,6	-	-	-		
92	OHX	1	4157	92	0,6,6	-	-	-		
92	OHX	6	2167	-	0,6,6	-	-	-		
92	OHX	2	2250	-	0,6,6	-	-	-		
92	OHX	6	2305	-	0,6,6	-	-	-		
92	OHX	6	2298	92,1	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	2	2221	92	0,6,6	-	-	-		
92	OHX	5	4520	92	0,6,6	-	-	-		
92	OHX	5	4157	91	0,6,6	-	-	-		
92	OHX	1	4195	-	0,6,6	-	-	-		
92	OHX	1	4234	91	0,6,6	-	-	-		
92	OHX	1	4199	91	0,6,6	-	-	-		
92	OHX	1	4106	91	0,6,6	-	-	-		
92	OHX	5	4366	-	0,6,6	-	-	-		
92	OHX	5	4422	92	0,6,6	-	-	-		
92	OHX	6	2253	91	0,6,6	-	-	-		
92	OHX	1	4189	91	0,6,6	-	-	-		
92	OHX	1	4326	-	0,6,6	-	-	-		
92	OHX	1	4127	-	0,6,6	-	-	-		
92	OHX	2	2200	91	0,6,6	-	-	-		
92	OHX	2	2073	-	0,6,6	-	-	-		
92	OHX	5	4542	-	0,6,6	-	-	-		
92	OHX	1	4436	91	0,6,6	-	-	-		
92	OHX	2	2074	91,92	0,6,6	-	-	-		
92	OHX	1	4374	-	0,6,6	-	-	-		
92	OHX	1	4330	92	0,6,6	-	-	-		
92	OHX	2	2233	-	0,6,6	-	-	-		
92	OHX	1	4275	-	0,6,6	-	-	-		
92	OHX	2	2090	91,92	0,6,6	-	-	-		
92	OHX	1	4404	-	0,6,6	-	-	-		
92	OHX	5	4443	-	0,6,6	-	-	-		
92	OHX	8	231	92	0,6,6	-	-	-		
92	OHX	5	4317	-	0,6,6	-	-	-		
92	OHX	6	2248	-	0,6,6	-	-	-		
92	OHX	M5	310	-	0,6,6	-	-	-		
92	OHX	1	4152	-	0,6,6	-	-	-		
92	OHX	1	4217	91	0,6,6	-	-	-		
92	OHX	1	4365	91	0,6,6	-	-	-		
92	OHX	2	2070	-	0,6,6	-	-	-		
92	OHX	2	2076	-	0,6,6	-	-	-		
92	OHX	2	2087	-	0,6,6	-	-	-		
92	OHX	6	2165	91	0,6,6	-	-	-		
92	OHX	5	4253	92	0,6,6	-	-	-		
92	OHX	5	4397	-	0,6,6	-	-	-		
92	OHX	2	2239	-	0,6,6	-	-	-		
92	OHX	6	2208	-	0,6,6	-	-	-		
92	OHX	1	4477	-	0,6,6	-	-	-		
92	OHX	2	2112	91	0,6,6	-	-	-		
92	OHX	6	2198	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	1	4142	91	0,6,6	-	-	-		
92	OHX	5	4292	92	0,6,6	-	-	-		
92	OHX	2	2101	92	0,6,6	-	-	-		
92	OHX	1	4263	-	0,6,6	-	-	-		
92	OHX	1	4315	92	0,6,6	-	-	-		
92	OHX	2	2186	92	0,6,6	-	-	-		
92	OHX	l4	404	-	0,6,6	-	-	-		
92	OHX	7	236	91	0,6,6	-	-	-		
92	OHX	1	4370	91	0,6,6	-	-	-		
92	OHX	3	225	92	0,6,6	-	-	-		
92	OHX	2	2155	-	0,6,6	-	-	-		
92	OHX	5	4452	-	0,6,6	-	-	-		
92	OHX	1	4282	-	0,6,6	-	-	-		
92	OHX	5	4554	92	0,6,6	-	-	-		
92	OHX	2	2211	-	0,6,6	-	-	-		
92	OHX	5	4323	91,36,92	0,6,6	-	-	-		
92	OHX	5	4568	92	0,6,6	-	-	-		
92	OHX	5	4213	-	0,6,6	-	-	-		
92	OHX	5	4347	36	0,6,6	-	-	-		
92	OHX	1	4242	91	0,6,6	-	-	-		
92	OHX	5	4355	-	0,6,6	-	-	-		
92	OHX	6	2297	92	0,6,6	-	-	-		
92	OHX	1	4159	-	0,6,6	-	-	-		
92	OHX	1	4286	92	0,6,6	-	-	-		
92	OHX	5	4550	-	0,6,6	-	-	-		
92	OHX	1	4174	-	0,6,6	-	-	-		
92	OHX	1	4324	91	0,6,6	-	-	-		
92	OHX	5	4451	-	0,6,6	-	-	-		
92	OHX	4	237	38	0,6,6	-	-	-		
92	OHX	5	4159	91	0,6,6	-	-	-		
92	OHX	2	2243	92,1	0,6,6	-	-	-		
92	OHX	6	2174	91	0,6,6	-	-	-		
92	OHX	1	4139	91	0,6,6	-	-	-		
92	OHX	1	4194	91,92	0,6,6	-	-	-		
92	OHX	2	2136	-	0,6,6	-	-	-		
92	OHX	1	4145	-	0,6,6	-	-	-		
92	OHX	1	4382	-	0,6,6	-	-	-		
92	OHX	5	4338	92	0,6,6	-	-	-		
92	OHX	8	228	-	0,6,6	-	-	-		
92	OHX	6	2156	91	0,6,6	-	-	-		
92	OHX	5	4215	92	0,6,6	-	-	-		
92	OHX	5	4194	91	0,6,6	-	-	-		
92	OHX	5	4458	36	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
92	OHX	1	4483	91	0,6,6	-	-	-		
92	OHX	5	4245	-	0,6,6	-	-	-		
92	OHX	5	4358	-	0,6,6	-	-	-		
92	OHX	1	4359	91,92	0,6,6	-	-	-		
92	OHX	6	2261	91	0,6,6	-	-	-		
92	OHX	2	2178	-	0,6,6	-	-	-		
92	OHX	2	2226	-	0,6,6	-	-	-		
92	OHX	2	2123	-	0,6,6	-	-	-		
92	OHX	5	4219	92	0,6,6	-	-	-		
92	OHX	2	2084	-	0,6,6	-	-	-		
92	OHX	6	2299	92	0,6,6	-	-	-		
92	OHX	5	4494	-	0,6,6	-	-	-		
92	OHX	5	4188	91	0,6,6	-	-	-		
92	OHX	1	4243	-	0,6,6	-	-	-		
92	OHX	5	4356	91	0,6,6	-	-	-		
92	OHX	5	4541	91	0,6,6	-	-	-		
92	OHX	1	4353	92	0,6,6	-	-	-		
92	OHX	5	4192	-	0,6,6	-	-	-		
92	OHX	2	2212	91	0,6,6	-	-	-		
92	OHX	5	4363	-	0,6,6	-	-	-		
92	OHX	1	4419	91	0,6,6	-	-	-		
92	OHX	5	4246	91	0,6,6	-	-	-		
92	OHX	5	4243	-	0,6,6	-	-	-		
92	OHX	8	223	-	0,6,6	-	-	-		
92	OHX	5	4353	91	0,6,6	-	-	-		
92	OHX	6	2240	91	0,6,6	-	-	-		
92	OHX	1	4463	-	0,6,6	-	-	-		
92	OHX	s1	302	-	0,6,6	-	-	-		
92	OHX	8	232	-	0,6,6	-	-	-		
92	OHX	2	2157	92	0,6,6	-	-	-		
92	OHX	5	4459	92	0,6,6	-	-	-		
92	OHX	2	2130	-	0,6,6	-	-	-		
92	OHX	1	4453	92	0,6,6	-	-	-		
92	OHX	1	4373	91	0,6,6	-	-	-		
92	OHX	5	4499	92	0,6,6	-	-	-		
92	OHX	1	4325	-	0,6,6	-	-	-		
92	OHX	6	2244	-	0,6,6	-	-	-		
92	OHX	5	4457	92	0,6,6	-	-	-		
92	OHX	8	225	-	0,6,6	-	-	-		
92	OHX	6	2285	91	0,6,6	-	-	-		
92	OHX	5	4513	-	0,6,6	-	-	-		
92	OHX	8	230	-	0,6,6	-	-	-		
92	OHX	m0	302	92	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	6	2179	-	0,6,6	-	-	-		
92	OHX	5	4185	-	0,6,6	-	-	-		
92	OHX	6	2318	92	0,6,6	-	-	-		
92	OHX	2	2145	92	0,6,6	-	-	-		
92	OHX	L2	305	92	0,6,6	-	-	-		
92	OHX	5	4251	-	0,6,6	-	-	-		
92	OHX	2	2141	92	0,6,6	-	-	-		
92	OHX	2	2107	-	0,6,6	-	-	-		
92	OHX	5	4171	91	0,6,6	-	-	-		
92	OHX	7	231	91,92	0,6,6	-	-	-		
92	OHX	6	2241	-	0,6,6	-	-	-		
92	OHX	2	2167	-	0,6,6	-	-	-		
92	OHX	5	4498	-	0,6,6	-	-	-		
92	OHX	6	2266	1	0,6,6	-	-	-		
92	OHX	L3	409	-	0,6,6	-	-	-		
92	OHX	1	4103	36	0,6,6	-	-	-		
92	OHX	l9	204	-	0,6,6	-	-	-		
92	OHX	1	4314	-	0,6,6	-	-	-		
92	OHX	5	4395	-	0,6,6	-	-	-		
92	OHX	5	4280	-	0,6,6	-	-	-		
92	OHX	5	4334	92	0,6,6	-	-	-		
92	OHX	1	4200	92	0,6,6	-	-	-		
92	OHX	M7	209	-	0,6,6	-	-	-		
92	OHX	6	2316	92	0,6,6	-	-	-		
92	OHX	5	4276	92	0,6,6	-	-	-		
92	OHX	1	4122	-	0,6,6	-	-	-		
92	OHX	2	2164	-	0,6,6	-	-	-		
92	OHX	2	2137	1	0,6,6	-	-	-		
92	OHX	1	4184	-	0,6,6	-	-	-		
92	OHX	1	4423	91	0,6,6	-	-	-		
92	OHX	1	4229	-	0,6,6	-	-	-		
92	OHX	6	2141	91	0,6,6	-	-	-		
92	OHX	1	4445	92	0,6,6	-	-	-		
92	OHX	1	4268	-	0,6,6	-	-	-		
92	OHX	5	4434	-	0,6,6	-	-	-		
92	OHX	5	4344	91,92	0,6,6	-	-	-		
92	OHX	1	4178	-	0,6,6	-	-	-		
92	OHX	6	2295	-	0,6,6	-	-	-		
92	OHX	5	4184	-	0,6,6	-	-	-		
92	OHX	1	4283	91	0,6,6	-	-	-		
92	OHX	1	4348	91	0,6,6	-	-	-		
92	OHX	5	4167	91	0,6,6	-	-	-		
92	OHX	1	4126	91	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4261	92	0,6,6	-	-	-		
92	OHX	6	2330	-	0,6,6	-	-	-		
92	OHX	1	4166	-	0,6,6	-	-	-		
92	OHX	1	4207	91	0,6,6	-	-	-		
92	OHX	6	2252	-	0,6,6	-	-	-		
92	OHX	2	2230	-	0,6,6	-	-	-		
92	OHX	1	4399	91,92	0,6,6	-	-	-		
92	OHX	5	4158	-	0,6,6	-	-	-		
92	OHX	1	4298	-	0,6,6	-	-	-		
92	OHX	1	4402	-	0,6,6	-	-	-		
92	OHX	6	2147	-	0,6,6	-	-	-		
92	OHX	2	2215	-	0,6,6	-	-	-		
92	OHX	2	2184	-	0,6,6	-	-	-		
92	OHX	1	4100	-	0,6,6	-	-	-		
92	OHX	6	2336	-	0,6,6	-	-	-		
92	OHX	5	4518	-	0,6,6	-	-	-		
92	OHX	1	4351	91	0,6,6	-	-	-		
92	OHX	2	2197	1	0,6,6	-	-	-		
92	OHX	D9	104	92	0,6,6	-	-	-		
92	OHX	5	4514	-	0,6,6	-	-	-		
92	OHX	6	2249	92	0,6,6	-	-	-		
92	OHX	1	4432	91	0,6,6	-	-	-		
92	OHX	6	2188	-	0,6,6	-	-	-		
92	OHX	1	4505	36,92	0,6,6	-	-	-		
92	OHX	5	4400	92	0,6,6	-	-	-		
92	OHX	2	2122	92	0,6,6	-	-	-		
92	OHX	5	4197	91	0,6,6	-	-	-		
92	OHX	6	2157	-	0,6,6	-	-	-		
92	OHX	2	2228	-	0,6,6	-	-	-		
92	OHX	5	4286	91	0,6,6	-	-	-		
92	OHX	2	2191	-	0,6,6	-	-	-		
92	OHX	1	4300	-	0,6,6	-	-	-		
92	OHX	1	4156	92	0,6,6	-	-	-		
92	OHX	1	4319	92	0,6,6	-	-	-		
92	OHX	1	4244	-	0,6,6	-	-	-		
92	OHX	5	4202	91	0,6,6	-	-	-		
92	OHX	2	2232	92	0,6,6	-	-	-		
92	OHX	5	4412	-	0,6,6	-	-	-		
92	OHX	6	2247	91	0,6,6	-	-	-		
92	OHX	5	4527	-	0,6,6	-	-	-		
92	OHX	5	4319	91	0,6,6	-	-	-		
92	OHX	5	4461	-	0,6,6	-	-	-		
92	OHX	1	4381	36,92	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4328	-	0,6,6	-	-	-		
92	OHX	1	4294	-	0,6,6	-	-	-		
92	OHX	1	4327	-	0,6,6	-	-	-		
92	OHX	5	4484	92	0,6,6	-	-	-		
92	OHX	1	4372	92	0,6,6	-	-	-		
92	OHX	8	240	-	0,6,6	-	-	-		
92	OHX	1	4296	92	0,6,6	-	-	-		
92	OHX	1	4437	92	0,6,6	-	-	-		
92	OHX	1	4376	92	0,6,6	-	-	-		
92	OHX	1	4415	91	0,6,6	-	-	-		
92	OHX	2	2208	-	0,6,6	-	-	-		
92	OHX	5	4376	-	0,6,6	-	-	-		
92	OHX	1	4224	-	0,6,6	-	-	-		
92	OHX	1	4196	92	0,6,6	-	-	-		
92	OHX	1	4355	36,92	0,6,6	-	-	-		
92	OHX	5	4398	91	0,6,6	-	-	-		
92	OHX	7	235	-	0,6,6	-	-	-		
92	OHX	3	231	-	0,6,6	-	-	-		
92	OHX	2	2175	-	0,6,6	-	-	-		
92	OHX	5	4375	-	0,6,6	-	-	-		
92	OHX	6	2225	-	0,6,6	-	-	-		
92	OHX	5	4354	91	0,6,6	-	-	-		
92	OHX	5	4378	91	0,6,6	-	-	-		
92	OHX	S6	302	-	0,6,6	-	-	-		
92	OHX	5	4357	-	0,6,6	-	-	-		
92	OHX	1	4172	92	0,6,6	-	-	-		
92	OHX	5	4173	-	0,6,6	-	-	-		
92	OHX	C8	202	91,92	0,6,6	-	-	-		
92	OHX	1	4472	-	0,6,6	-	-	-		
92	OHX	5	4190	-	0,6,6	-	-	-		
92	OHX	1	4115	91	0,6,6	-	-	-		
92	OHX	1	4168	92	0,6,6	-	-	-		
92	OHX	1	4133	-	0,6,6	-	-	-		
92	OHX	5	4272	91	0,6,6	-	-	-		
92	OHX	6	2204	1	0,6,6	-	-	-		
92	OHX	5	4230	-	0,6,6	-	-	-		
92	OHX	5	4270	-	0,6,6	-	-	-		
92	OHX	2	2253	-	0,6,6	-	-	-		
92	OHX	6	2242	91,92	0,6,6	-	-	-		
92	OHX	2	2193	91	0,6,6	-	-	-		
92	OHX	5	4311	91	0,6,6	-	-	-		
92	OHX	1	4301	-	0,6,6	-	-	-		
92	OHX	1	4484	92	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	1	4494	-	0,6,6	-	-	-		
92	OHX	1	4290	-	0,6,6	-	-	-		
92	OHX	1	4502	92	0,6,6	-	-	-		
92	OHX	1	4508	92	0,6,6	-	-	-		
92	OHX	5	4421	-	0,6,6	-	-	-		
92	OHX	1	4252	-	0,6,6	-	-	-		
92	OHX	3	224	-	0,6,6	-	-	-		
92	OHX	5	4546	91	0,6,6	-	-	-		
92	OHX	1	4442	92	0,6,6	-	-	-		
92	OHX	5	4307	91	0,6,6	-	-	-		
92	OHX	2	2165	91	0,6,6	-	-	-		
92	OHX	5	4538	-	0,6,6	-	-	-		
92	OHX	5	4327	91	0,6,6	-	-	-		
92	OHX	1	4223	-	0,6,6	-	-	-		
92	OHX	1	4497	91	0,6,6	-	-	-		
92	OHX	5	4346	92	0,6,6	-	-	-		
92	OHX	6	2218	91	0,6,6	-	-	-		
92	OHX	1	4405	92	0,6,6	-	-	-		
92	OHX	5	4279	92	0,6,6	-	-	-		
92	OHX	1	4284	91	0,6,6	-	-	-		
92	OHX	6	2201	92	0,6,6	-	-	-		
92	OHX	2	2246	-	0,6,6	-	-	-		
92	OHX	2	2172	-	0,6,6	-	-	-		
92	OHX	8	238	-	0,6,6	-	-	-		
92	OHX	5	4467	36	0,6,6	-	-	-		
92	OHX	1	4354	-	0,6,6	-	-	-		
92	OHX	1	4101	-	0,6,6	-	-	-		
92	OHX	m0	303	92	0,6,6	-	-	-		
92	OHX	1	4205	-	0,6,6	-	-	-		
92	OHX	5	4255	-	0,6,6	-	-	-		
92	OHX	5	4326	91	0,6,6	-	-	-		
92	OHX	5	4476	91,92	0,6,6	-	-	-		
92	OHX	1	4288	91	0,6,6	-	-	-		
92	OHX	5	4528	-	0,6,6	-	-	-		
92	OHX	1	4342	91,36	0,6,6	-	-	-		
92	OHX	5	4288	92	0,6,6	-	-	-		
92	OHX	5	4304	-	0,6,6	-	-	-		
92	OHX	2	2171	1	0,6,6	-	-	-		
92	OHX	5	4298	-	0,6,6	-	-	-		
92	OHX	O7	107	91	0,6,6	-	-	-		
92	OHX	1	4336	91	0,6,6	-	-	-		
92	OHX	5	4232	-	0,6,6	-	-	-		
92	OHX	5	4343	91	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	1	4323	-	0,6,6	-	-	-		
92	OHX	1	4226	-	0,6,6	-	-	-		
92	OHX	2	2085	-	0,6,6	-	-	-		
92	OHX	2	2223	91	0,6,6	-	-	-		
92	OHX	5	4289	-	0,6,6	-	-	-		
92	OHX	2	2192	-	0,6,6	-	-	-		
92	OHX	5	4557	92	0,6,6	-	-	-		
92	OHX	6	2154	-	0,6,6	-	-	-		
92	OHX	2	2131	-	0,6,6	-	-	-		
92	OHX	5	4170	-	0,6,6	-	-	-		
92	OHX	4	240	-	0,6,6	-	-	-		
92	OHX	M5	309	-	0,6,6	-	-	-		
92	OHX	5	4504	-	0,6,6	-	-	-		
92	OHX	5	4406	91,92	0,6,6	-	-	-		
92	OHX	5	4374	-	0,6,6	-	-	-		
92	OHX	5	4446	-	0,6,6	-	-	-		
92	OHX	5	4260	91	0,6,6	-	-	-		
92	OHX	5	4404	92	0,6,6	-	-	-		
92	OHX	6	2288	-	0,6,6	-	-	-		
92	OHX	5	4211	92	0,6,6	-	-	-		
92	OHX	1	4488	-	0,6,6	-	-	-		
92	OHX	5	4295	92	0,6,6	-	-	-		
92	OHX	5	4544	-	0,6,6	-	-	-		
92	OHX	5	4273	-	0,6,6	-	-	-		
92	OHX	6	2220	91	0,6,6	-	-	-		
92	OHX	2	2194	92	0,6,6	-	-	-		
92	OHX	5	4163	-	0,6,6	-	-	-		
92	OHX	1	4310	91	0,6,6	-	-	-		
92	OHX	1	4341	91	0,6,6	-	-	-		
92	OHX	5	4369	92	0,6,6	-	-	-		
92	OHX	5	4478	91,92	0,6,6	-	-	-		
92	OHX	1	4255	91	0,6,6	-	-	-		
92	OHX	5	4242	91,36	0,6,6	-	-	-		
92	OHX	1	4227	91	0,6,6	-	-	-		
92	OHX	5	4310	91	0,6,6	-	-	-		
92	OHX	2	2229	-	0,6,6	-	-	-		
92	OHX	5	4341	92	0,6,6	-	-	-		
92	OHX	2	2111	92	0,6,6	-	-	-		
92	OHX	5	4174	91	0,6,6	-	-	-		
92	OHX	2	2103	-	0,6,6	-	-	-		
92	OHX	5	4531	-	0,6,6	-	-	-		
92	OHX	6	2269	91	0,6,6	-	-	-		
92	OHX	S8	303	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
92	OHX	8	224	91	0,6,6	-	-	-		
92	OHX	1	4486	-	0,6,6	-	-	-		
92	OHX	5	4471	92	0,6,6	-	-	-		
92	OHX	2	2238	92	0,6,6	-	-	-		
92	OHX	1	4299	-	0,6,6	-	-	-		
92	OHX	2	2204	-	0,6,6	-	-	-		
92	OHX	5	4486	92	0,6,6	-	-	-		
92	OHX	5	4426	91	0,6,6	-	-	-		
92	OHX	l3	412	-	0,6,6	-	-	-		
92	OHX	2	2124	-	0,6,6	-	-	-		
92	OHX	m0	305	92	0,6,6	-	-	-		
92	OHX	1	4469	92	0,6,6	-	-	-		
92	OHX	1	4278	36	0,6,6	-	-	-		
92	OHX	1	4386	92	0,6,6	-	-	-		
92	OHX	5	4172	-	0,6,6	-	-	-		
92	OHX	5	4359	91,92	0,6,6	-	-	-		
92	OHX	5	4519	91	0,6,6	-	-	-		
92	OHX	5	4278	-	0,6,6	-	-	-		
92	OHX	5	4386	-	0,6,6	-	-	-		
92	OHX	5	4470	-	0,6,6	-	-	-		
92	OHX	2	2115	91	0,6,6	-	-	-		
92	OHX	5	4352	92	0,6,6	-	-	-		
92	OHX	2	2160	-	0,6,6	-	-	-		
92	OHX	O7	108	-	0,6,6	-	-	-		
92	OHX	1	4364	91	0,6,6	-	-	-		
92	OHX	7	240	91	0,6,6	-	-	-		
92	OHX	5	4419	-	0,6,6	-	-	-		
92	OHX	5	4525	-	0,6,6	-	-	-		
92	OHX	2	2117	-	0,6,6	-	-	-		
92	OHX	1	4454	91	0,6,6	-	-	-		
92	OHX	5	4290	91	0,6,6	-	-	-		
92	OHX	5	4573	92	0,6,6	-	-	-		
92	OHX	5	4559	92	0,6,6	-	-	-		
92	OHX	1	4332	-	0,6,6	-	-	-		
92	OHX	2	2213	-	0,6,6	-	-	-		
92	OHX	1	4267	-	0,6,6	-	-	-		
92	OHX	1	4358	-	0,6,6	-	-	-		
92	OHX	6	2255	92,1	0,6,6	-	-	-		
92	OHX	6	2254	-	0,6,6	-	-	-		
92	OHX	6	2335	92	0,6,6	-	-	-		
92	OHX	6	2287	-	0,6,6	-	-	-		
92	OHX	2	2176	92	0,6,6	-	-	-		
92	OHX	5	4325	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
92	OHX	5	4413	92	0,6,6	-	-	-		
92	OHX	6	2189	91	0,6,6	-	-	-		
92	OHX	2	2240	92	0,6,6	-	-	-		
92	OHX	1	4257	-	0,6,6	-	-	-		
92	OHX	2	2190	92	0,6,6	-	-	-		
92	OHX	2	2203	92	0,6,6	-	-	-		
92	OHX	5	4218	91	0,6,6	-	-	-		
92	OHX	5	4257	91,36,92	0,6,6	-	-	-		
92	OHX	7	234	-	0,6,6	-	-	-		
92	OHX	1	4155	-	0,6,6	-	-	-		
92	OHX	5	4259	92	0,6,6	-	-	-		
92	OHX	1	4191	91	0,6,6	-	-	-		
92	OHX	2	2146	-	0,6,6	-	-	-		
92	OHX	1	4124	92	0,6,6	-	-	-		
92	OHX	6	2145	-	0,6,6	-	-	-		
92	OHX	1	4239	92	0,6,6	-	-	-		
92	OHX	C8	203	36,92	0,6,6	-	-	-		
92	OHX	5	4500	-	0,6,6	-	-	-		
92	OHX	6	2334	92	0,6,6	-	-	-		
92	OHX	6	2209	91	0,6,6	-	-	-		
92	OHX	6	2158	-	0,6,6	-	-	-		
92	OHX	6	2176	-	0,6,6	-	-	-		
92	OHX	1	4241	-	0,6,6	-	-	-		
92	OHX	5	4389	-	0,6,6	-	-	-		
92	OHX	n9	103	-	0,6,6	-	-	-		
92	OHX	1	4321	-	0,6,6	-	-	-		
92	OHX	1	4316	-	0,6,6	-	-	-		
92	OHX	5	4547	92	0,6,6	-	-	-		
92	OHX	5	4316	-	0,6,6	-	-	-		
92	OHX	5	4332	-	0,6,6	-	-	-		
92	OHX	6	2290	1	0,6,6	-	-	-		
92	OHX	5	4509	92	0,6,6	-	-	-		
92	OHX	5	4565	91,92	0,6,6	-	-	-		
92	OHX	6	2307	91	0,6,6	-	-	-		
92	OHX	2	2195	92	0,6,6	-	-	-		
92	OHX	5	4207	92	0,6,6	-	-	-		
92	OHX	6	2237	-	0,6,6	-	-	-		
92	OHX	5	4166	91	0,6,6	-	-	-		
92	OHX	l4	405	-	0,6,6	-	-	-		
92	OHX	2	2071	-	0,6,6	-	-	-		
92	OHX	5	4424	-	0,6,6	-	-	-		
92	OHX	2	2152	92	0,6,6	-	-	-		
92	OHX	2	2080	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	1	4394	-	0,6,6	-	-	-		
92	OHX	5	4156	-	0,6,6	-	-	-		
92	OHX	l2	306	92	0,6,6	-	-	-		
92	OHX	1	4408	92	0,6,6	-	-	-		
92	OHX	7	232	91	0,6,6	-	-	-		
92	OHX	6	2235	-	0,6,6	-	-	-		
92	OHX	5	4379	-	0,6,6	-	-	-		
92	OHX	5	4238	-	0,6,6	-	-	-		
92	OHX	5	4440	92	0,6,6	-	-	-		
92	OHX	1	4493	91	0,6,6	-	-	-		
92	OHX	5	4408	92	0,6,6	-	-	-		
92	OHX	1	4385	92	0,6,6	-	-	-		
92	OHX	1	4317	91	0,6,6	-	-	-		
92	OHX	1	4185	92	0,6,6	-	-	-		
92	OHX	2	2255	92	0,6,6	-	-	-		
92	OHX	2	2242	-	0,6,6	-	-	-		
92	OHX	6	2267	91	0,6,6	-	-	-		
92	OHX	1	4140	91	0,6,6	-	-	-		
92	OHX	8	221	-	0,6,6	-	-	-		
92	OHX	5	4381	92	0,6,6	-	-	-		
92	OHX	2	2251	92	0,6,6	-	-	-		
92	OHX	7	233	-	0,6,6	-	-	-		
92	OHX	1	4292	92	0,6,6	-	-	-		
92	OHX	1	4369	92	0,6,6	-	-	-		
92	OHX	2	2237	92	0,6,6	-	-	-		
92	OHX	2	2149	-	0,6,6	-	-	-		
92	OHX	m5	303	-	0,6,6	-	-	-		
92	OHX	5	4178	-	0,6,6	-	-	-		
92	OHX	1	4334	91	0,6,6	-	-	-		
92	OHX	6	2304	-	0,6,6	-	-	-		
92	OHX	4	239	91	0,6,6	-	-	-		
92	OHX	4	246	92	0,6,6	-	-	-		
92	OHX	2	2089	91,92	0,6,6	-	-	-		
92	OHX	2	2098	-	0,6,6	-	-	-		
92	OHX	6	2146	-	0,6,6	-	-	-		
92	OHX	5	4402	-	0,6,6	-	-	-		
92	OHX	1	4236	-	0,6,6	-	-	-		
92	OHX	2	2185	-	0,6,6	-	-	-		
92	OHX	5	4196	-	0,6,6	-	-	-		
92	OHX	O7	109	92	0,6,6	-	-	-		
92	OHX	1	4428	92	0,6,6	-	-	-		
92	OHX	6	2217	-	0,6,6	-	-	-		
92	OHX	5	4305	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4537	91	0,6,6	-	-	-		
92	OHX	4	236	-	0,6,6	-	-	-		
92	OHX	5	4428	-	0,6,6	-	-	-		
92	OHX	5	4403	92	0,6,6	-	-	-		
92	OHX	2	2206	-	0,6,6	-	-	-		
92	OHX	8	236	-	0,6,6	-	-	-		
92	OHX	1	4410	-	0,6,6	-	-	-		
92	OHX	6	2234	-	0,6,6	-	-	-		
92	OHX	1	4387	-	0,6,6	-	-	-		
92	OHX	6	2251	91	0,6,6	-	-	-		
92	OHX	7	237	91	0,6,6	-	-	-		
92	OHX	1	4158	91	0,6,6	-	-	-		
92	OHX	5	4368	91	0,6,6	-	-	-		
92	OHX	6	2219	-	0,6,6	-	-	-		
92	OHX	5	4508	-	0,6,6	-	-	-		
92	OHX	2	2170	-	0,6,6	-	-	-		
92	OHX	1	4216	91	0,6,6	-	-	-		
92	OHX	6	2315	-	0,6,6	-	-	-		
92	OHX	1	4371	-	0,6,6	-	-	-		
92	OHX	6	2309	92	0,6,6	-	-	-		
92	OHX	1	4208	-	0,6,6	-	-	-		
92	OHX	5	4195	-	0,6,6	-	-	-		
92	OHX	5	4517	91,92	0,6,6	-	-	-		
92	OHX	1	4210	91,92	0,6,6	-	-	-		
92	OHX	5	4560	92	0,6,6	-	-	-		
92	OHX	N9	102	-	0,6,6	-	-	-		
92	OHX	1	4349	91	0,6,6	-	-	-		
92	OHX	5	4210	91	0,6,6	-	-	-		
92	OHX	1	4190	91	0,6,6	-	-	-		
92	OHX	5	4182	-	0,6,6	-	-	-		
92	OHX	5	4526	91	0,6,6	-	-	-		
92	OHX	2	2105	-	0,6,6	-	-	-		
92	OHX	1	4188	91	0,6,6	-	-	-		
92	OHX	6	2320	91	0,6,6	-	-	-		
92	OHX	6	2211	-	0,6,6	-	-	-		
92	OHX	1	4203	92	0,6,6	-	-	-		
92	OHX	1	4163	91	0,6,6	-	-	-		
92	OHX	1	4265	-	0,6,6	-	-	-		
92	OHX	1	4345	-	0,6,6	-	-	-		
92	OHX	1	4403	-	0,6,6	-	-	-		
92	OHX	1	4380	36	0,6,6	-	-	-		
92	OHX	1	4366	91	0,6,6	-	-	-		
92	OHX	6	2338	91,92	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
92	OHX	5	4336	-	0,6,6	-	-	-		
92	OHX	5	4187	91,92	0,6,6	-	-	-		
92	OHX	1	4134	92	0,6,6	-	-	-		
92	OHX	1	4448	91	0,6,6	-	-	-		
92	OHX	5	4205	-	0,6,6	-	-	-		
92	OHX	1	4434	-	0,6,6	-	-	-		
92	OHX	6	2207	91,92	0,6,6	-	-	-		
92	OHX	2	2150	-	0,6,6	-	-	-		
92	OHX	q2	203	91	0,6,6	-	-	-		
92	OHX	1	4137	91	0,6,6	-	-	-		
92	OHX	1	4285	-	0,6,6	-	-	-		
92	OHX	o3	206	-	0,6,6	-	-	-		
92	OHX	1	4136	91	0,6,6	-	-	-		
92	OHX	2	2179	91	0,6,6	-	-	-		
92	OHX	2	2108	92	0,6,6	-	-	-		
92	OHX	1	4105	92	0,6,6	-	-	-		
92	OHX	1	4153	91,92	0,6,6	-	-	-		
92	OHX	5	4490	-	0,6,6	-	-	-		
92	OHX	1	4114	-	0,6,6	-	-	-		
92	OHX	6	2291	1	0,6,6	-	-	-		
92	OHX	5	4429	91	0,6,6	-	-	-		
92	OHX	1	4482	92	0,6,6	-	-	-		
92	OHX	6	2221	1	0,6,6	-	-	-		
92	OHX	5	4209	92	0,6,6	-	-	-		
92	OHX	5	4555	92	0,6,6	-	-	-		
92	OHX	6	2150	91,1	0,6,6	-	-	-		
92	OHX	1	4262	92	0,6,6	-	-	-		
92	OHX	5	4234	92	0,6,6	-	-	-		
92	OHX	5	4199	92	0,6,6	-	-	-		
92	OHX	2	2147	92	0,6,6	-	-	-		
92	OHX	3	220	91	0,6,6	-	-	-		
92	OHX	2	2210	1	0,6,6	-	-	-		
92	OHX	6	2265	-	0,6,6	-	-	-		
92	OHX	l5	309	-	0,6,6	-	-	-		
92	OHX	1	4102	91	0,6,6	-	-	-		
92	OHX	1	4393	36	0,6,6	-	-	-		
92	OHX	1	4496	92	0,6,6	-	-	-		
92	OHX	2	2187	91	0,6,6	-	-	-		
92	OHX	1	4495	92	0,6,6	-	-	-		
92	OHX	5	4350	91	0,6,6	-	-	-		
92	OHX	1	4328	-	0,6,6	-	-	-		
92	OHX	1	4303	91	0,6,6	-	-	-		
92	OHX	M9	204	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
92	OHX	6	2231	-	0,6,6	-	-	-		
92	OHX	6	2268	91	0,6,6	-	-	-		
92	OHX	5	4475	91	0,6,6	-	-	-		
92	OHX	1	4104	-	0,6,6	-	-	-		
92	OHX	5	4303	-	0,6,6	-	-	-		
92	OHX	1	4360	91	0,6,6	-	-	-		
92	OHX	5	4553	91,36,92	0,6,6	-	-	-		
92	OHX	1	4214	-	0,6,6	-	-	-		
92	OHX	6	2250	92	0,6,6	-	-	-		
92	OHX	5	4407	-	0,6,6	-	-	-		
92	OHX	1	4245	92	0,6,6	-	-	-		
92	OHX	5	4217	-	0,6,6	-	-	-		
92	OHX	1	4279	92	0,6,6	-	-	-		
92	OHX	1	4379	92	0,6,6	-	-	-		
92	OHX	5	4214	91	0,6,6	-	-	-		
92	OHX	5	4299	36	0,6,6	-	-	-		
92	OHX	5	4256	92	0,6,6	-	-	-		
92	OHX	1	4175	-	0,6,6	-	-	-		
92	OHX	1	4409	-	0,6,6	-	-	-		
92	OHX	1	4392	91	0,6,6	-	-	-		
92	OHX	5	4180	-	0,6,6	-	-	-		
92	OHX	5	4558	92	0,6,6	-	-	-		
92	OHX	6	2239	-	0,6,6	-	-	-		
92	OHX	1	4147	92	0,6,6	-	-	-		
92	OHX	1	4462	-	0,6,6	-	-	-		
92	OHX	1	4198	92	0,6,6	-	-	-		
92	OHX	5	4370	-	0,6,6	-	-	-		
92	OHX	5	4462	91,92	0,6,6	-	-	-		
92	OHX	2	2116	91,92	0,6,6	-	-	-		
92	OHX	7	229	-	0,6,6	-	-	-		
92	OHX	6	2151	91	0,6,6	-	-	-		
92	OHX	6	2324	92	0,6,6	-	-	-		
92	OHX	5	4543	92	0,6,6	-	-	-		
92	OHX	1	4129	-	0,6,6	-	-	-		
92	OHX	1	4222	91	0,6,6	-	-	-		
92	OHX	5	4175	-	0,6,6	-	-	-		
92	OHX	1	4135	-	0,6,6	-	-	-		
92	OHX	2	2181	1	0,6,6	-	-	-		
92	OHX	3	227	-	0,6,6	-	-	-		
92	OHX	5	4417	-	0,6,6	-	-	-		
92	OHX	6	2260	91	0,6,6	-	-	-		
92	OHX	5	4479	91	0,6,6	-	-	-		
92	OHX	1	4116	92	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4474	92	0,6,6	-	-	-		
92	OHX	1	4253	92	0,6,6	-	-	-		
92	OHX	5	4372	91	0,6,6	-	-	-		
92	OHX	5	4220	-	0,6,6	-	-	-		
92	OHX	1	4162	-	0,6,6	-	-	-		
92	OHX	1	4146	91	0,6,6	-	-	-		
92	OHX	1	4391	-	0,6,6	-	-	-		
92	OHX	5	4302	91	0,6,6	-	-	-		
92	OHX	5	4275	92	0,6,6	-	-	-		
92	OHX	2	2093	1	0,6,6	-	-	-		
92	OHX	5	4284	91	0,6,6	-	-	-		
92	OHX	2	2159	92,1	0,6,6	-	-	-		
92	OHX	5	4365	-	0,6,6	-	-	-		
92	OHX	2	2169	-	0,6,6	-	-	-		
92	OHX	5	4487	-	0,6,6	-	-	-		
92	OHX	1	4400	91	0,6,6	-	-	-		
92	OHX	5	4361	-	0,6,6	-	-	-		
92	OHX	5	4297	-	0,6,6	-	-	-		
92	OHX	5	4306	-	0,6,6	-	-	-		
92	OHX	6	2280	-	0,6,6	-	-	-		
92	OHX	5	4477	91	0,6,6	-	-	-		
92	OHX	2	2241	92	0,6,6	-	-	-		
92	OHX	1	4424	92	0,6,6	-	-	-		
92	OHX	1	4177	-	0,6,6	-	-	-		
92	OHX	1	4171	92	0,6,6	-	-	-		
92	OHX	6	2275	-	0,6,6	-	-	-		
92	OHX	2	2201	-	0,6,6	-	-	-		
92	OHX	6	2256	1	0,6,6	-	-	-		
92	OHX	2	2135	-	0,6,6	-	-	-		
92	OHX	1	4151	91	0,6,6	-	-	-		
92	OHX	2	2252	92	0,6,6	-	-	-		
92	OHX	6	2331	92	0,6,6	-	-	-		
92	OHX	6	2144	-	0,6,6	-	-	-		
92	OHX	m9	202	-	0,6,6	-	-	-		
92	OHX	5	4373	92	0,6,6	-	-	-		
92	OHX	2	2129	92,1	0,6,6	-	-	-		
92	OHX	1	4322	91	0,6,6	-	-	-		
92	OHX	6	2226	91	0,6,6	-	-	-		
92	OHX	6	2169	91	0,6,6	-	-	-		
92	OHX	6	2314	-	0,6,6	-	-	-		
92	OHX	6	2159	92	0,6,6	-	-	-		
92	OHX	5	4502	-	0,6,6	-	-	-		
92	OHX	2	2099	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4535	-	0,6,6	-	-	-		
92	OHX	5	4322	91	0,6,6	-	-	-		
92	OHX	5	4503	92	0,6,6	-	-	-		
92	OHX	3	219	-	0,6,6	-	-	-		
92	OHX	1	4475	92	0,6,6	-	-	-		
92	OHX	5	4382	-	0,6,6	-	-	-		
92	OHX	5	4567	92	0,6,6	-	-	-		
92	OHX	5	4548	-	0,6,6	-	-	-		
92	OHX	2	2189	1	0,6,6	-	-	-		
92	OHX	1	4261	91	0,6,6	-	-	-		
92	OHX	1	4313	-	0,6,6	-	-	-		
92	OHX	5	4394	92	0,6,6	-	-	-		
92	OHX	1	4377	-	0,6,6	-	-	-		
92	OHX	6	2327	-	0,6,6	-	-	-		
92	OHX	n1	204	91	0,6,6	-	-	-		
92	OHX	A	102	90,92	0,6,6	-	-	-		
92	OHX	5	4493	-	0,6,6	-	-	-		
92	OHX	5	4314	-	0,6,6	-	-	-		
92	OHX	5	4466	-	0,6,6	-	-	-		
92	OHX	2	2128	-	0,6,6	-	-	-		
92	OHX	1	4357	91	0,6,6	-	-	-		
92	OHX	1	4248	-	0,6,6	-	-	-		
92	OHX	2	2091	1	0,6,6	-	-	-		
92	OHX	2	2188	-	0,6,6	-	-	-		
92	OHX	8	227	91	0,6,6	-	-	-		
92	OHX	6	2284	-	0,6,6	-	-	-		
92	OHX	1	4179	91	0,6,6	-	-	-		
92	OHX	5	4415	-	0,6,6	-	-	-		
92	OHX	1	4213	-	0,6,6	-	-	-		
92	OHX	5	4228	-	0,6,6	-	-	-		
92	OHX	3	229	91	0,6,6	-	-	-		
92	OHX	1	4305	92	0,6,6	-	-	-		
92	OHX	6	2321	91	0,6,6	-	-	-		
92	OHX	1	4099	-	0,6,6	-	-	-		
92	OHX	5	4268	-	0,6,6	-	-	-		
92	OHX	6	2230	91	0,6,6	-	-	-		
92	OHX	6	2227	91	0,6,6	-	-	-		
92	OHX	1	4209	91	0,6,6	-	-	-		
92	OHX	2	2205	91	0,6,6	-	-	-		
92	OHX	1	4232	36	0,6,6	-	-	-		
92	OHX	5	4441	91	0,6,6	-	-	-		
92	OHX	2	2207	92	0,6,6	-	-	-		
92	OHX	c1	201	92	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
92	OHX	5	4201	92	0,6,6	-	-	-		
92	OHX	1	4273	36	0,6,6	-	-	-		
92	OHX	5	4392	-	0,6,6	-	-	-		
92	OHX	d4	201	-	0,6,6	-	-	-		
92	OHX	1	4458	-	0,6,6	-	-	-		
92	OHX	1	4218	91	0,6,6	-	-	-		
92	OHX	5	4464	92	0,6,6	-	-	-		
92	OHX	5	4491	91	0,6,6	-	-	-		
92	OHX	1	4231	92	0,6,6	-	-	-		
92	OHX	1	4396	-	0,6,6	-	-	-		
92	OHX	5	4321	91	0,6,6	-	-	-		
92	OHX	1	4433	92	0,6,6	-	-	-		
92	OHX	5	4231	92	0,6,6	-	-	-		
92	OHX	5	4237	92	0,6,6	-	-	-		
92	OHX	2	2134	91	0,6,6	-	-	-		
92	OHX	6	2228	-	0,6,6	-	-	-		
92	OHX	2	2244	92,1	0,6,6	-	-	-		
92	OHX	6	2155	92	0,6,6	-	-	-		
92	OHX	5	4433	-	0,6,6	-	-	-		
92	OHX	5	4432	36,92	0,6,6	-	-	-		
92	OHX	5	4505	36	0,6,6	-	-	-		
92	OHX	1	4211	91,92	0,6,6	-	-	-		
92	OHX	1	4485	91	0,6,6	-	-	-		
92	OHX	1	4363	-	0,6,6	-	-	-		
92	OHX	2	2183	92,1	0,6,6	-	-	-		
92	OHX	1	4246	-	0,6,6	-	-	-		
92	OHX	2	2140	1	0,6,6	-	-	-		
92	OHX	1	4309	36	0,6,6	-	-	-		
92	OHX	5	4263	-	0,6,6	-	-	-		
92	OHX	6	2337	92,1	0,6,6	-	-	-		
92	OHX	5	4181	-	0,6,6	-	-	-		
92	OHX	2	2245	92	0,6,6	-	-	-		
92	OHX	5	4401	92	0,6,6	-	-	-		
92	OHX	1	4489	92	0,6,6	-	-	-		
92	OHX	1	4173	-	0,6,6	-	-	-		
92	OHX	6	2257	-	0,6,6	-	-	-		
92	OHX	6	2205	-	0,6,6	-	-	-		
92	OHX	5	4438	91	0,6,6	-	-	-		
92	OHX	6	2296	91	0,6,6	-	-	-		
92	OHX	M0	307	92	0,6,6	-	-	-		
92	OHX	2	2180	-	0,6,6	-	-	-		
92	OHX	1	4118	-	0,6,6	-	-	-		
92	OHX	2	2225	91	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
92	OHX	1	4289	92	0,6,6	-	-	-		
92	OHX	1	4439	91,92	0,6,6	-	-	-		
92	OHX	2	2144	92	0,6,6	-	-	-		
92	OHX	5	4439	-	0,6,6	-	-	-		

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.

545 monomers are involved in 789 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	4504	OHX	1	0
92	A	101	OHX	2	0
92	2	2143	OHX	3	0
92	1	4487	OHX	8	0
92	5	4530	OHX	1	0
92	1	4233	OHX	2	0
92	6	2306	OHX	1	0
92	5	4226	OHX	1	0
92	2	2106	OHX	2	0
92	2	2113	OHX	1	0
92	2	2110	OHX	1	0
92	2	2218	OHX	2	0
92	1	4401	OHX	1	0
92	5	4168	OHX	1	0
92	5	4337	OHX	1	0
92	6	2325	OHX	1	0
92	5	4203	OHX	1	0
92	5	4345	OHX	1	0
92	5	4453	OHX	1	0
92	5	4291	OHX	1	0
92	1	4167	OHX	1	0
92	5	4252	OHX	1	0
92	m7	208	OHX	1	0
92	2	2166	OHX	1	0
92	2	2125	OHX	1	0
92	1	4304	OHX	1	0
92	1	4397	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	2	2154	OHX	1	0
92	6	2206	OHX	1	0
92	6	2300	OHX	1	0
92	2	2095	OHX	1	0
92	1	4270	OHX	1	0
92	1	4176	OHX	1	0
92	5	4271	OHX	1	0
92	5	4455	OHX	1	0
92	2	2142	OHX	1	0
92	M0	308	OHX	5	0
92	5	4293	OHX	1	0
92	1	4468	OHX	2	0
92	2	2249	OHX	2	0
92	5	4308	OHX	1	0
92	1	4212	OHX	3	0
92	1	4347	OHX	1	0
92	2	2234	OHX	1	0
92	5	4423	OHX	2	0
92	5	4331	OHX	1	0
92	2	2121	OHX	2	0
92	5	4552	OHX	1	0
92	1	4435	OHX	2	0
92	5	4162	OHX	1	0
92	n3	204	OHX	1	0
92	1	4467	OHX	1	0
92	c3	201	OHX	3	0
92	5	4388	OHX	1	0
92	l3	413	OHX	1	0
92	5	4411	OHX	1	0
92	1	4107	OHX	1	0
92	2	2096	OHX	1	0
92	1	4272	OHX	1	0
92	1	4170	OHX	1	0
92	6	2215	OHX	2	0
92	4	245	OHX	1	0
92	1	4235	OHX	1	0
92	5	4566	OHX	1	0
92	6	2178	OHX	1	0
92	5	4329	OHX	1	0
92	5	4249	OHX	1	0
92	5	4469	OHX	1	0
92	8	235	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	4351	OHX	2	0
92	1	4338	OHX	1	0
92	1	4418	OHX	1	0
92	7	238	OHX	1	0
92	5	4409	OHX	4	0
92	2	2088	OHX	1	0
92	1	4343	OHX	1	0
92	5	4281	OHX	1	0
92	1	4192	OHX	4	0
92	5	4551	OHX	2	0
92	6	2246	OHX	1	0
92	1	4352	OHX	1	0
92	S2	303	OHX	3	0
92	c5	201	OHX	3	0
92	5	4442	OHX	2	0
92	5	4287	OHX	1	0
92	1	4307	OHX	1	0
92	5	4269	OHX	1	0
92	2	2138	OHX	2	0
92	a	101	OHX	1	0
92	2	2078	OHX	2	0
92	6	2171	OHX	1	0
92	6	2200	OHX	1	0
92	1	4187	OHX	1	0
92	6	2310	OHX	2	0
92	1	4443	OHX	1	0
92	1	4160	OHX	1	0
92	5	4267	OHX	1	0
92	1	4333	OHX	1	0
92	C5	202	OHX	5	0
92	6	2278	OHX	1	0
92	8	226	OHX	2	0
92	1	4465	OHX	1	0
92	5	4532	OHX	1	0
92	5	4465	OHX	2	0
92	5	4511	OHX	1	0
92	1	4228	OHX	2	0
92	5	4480	OHX	1	0
92	1	4331	OHX	1	0
92	6	2339	OHX	6	0
92	L3	408	OHX	1	0
92	1	4447	OHX	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	4247	OHX	1	0
92	1	4362	OHX	1	0
92	5	4385	OHX	2	0
92	5	4495	OHX	1	0
92	2	2231	OHX	1	0
92	5	4179	OHX	1	0
92	2	2219	OHX	1	0
92	1	4117	OHX	1	0
92	2	2254	OHX	1	0
92	5	4437	OHX	3	0
92	2	2118	OHX	2	0
92	M0	305	OHX	1	0
92	6	2274	OHX	3	0
92	1	4108	OHX	1	0
92	4	238	OHX	2	0
92	L3	407	OHX	1	0
92	5	4222	OHX	1	0
92	6	2170	OHX	1	0
92	C3	201	OHX	1	0
92	5	4454	OHX	1	0
92	1	4389	OHX	1	0
92	1	4206	OHX	1	0
92	6	2148	OHX	1	0
92	5	4549	OHX	1	0
92	1	4193	OHX	1	0
92	M0	306	OHX	1	0
92	5	4165	OHX	1	0
92	6	2259	OHX	1	0
92	2	2161	OHX	1	0
92	1	4446	OHX	13	0
92	l5	308	OHX	1	0
92	Q2	505	OHX	4	0
92	m1	203	OHX	1	0
92	5	4183	OHX	1	0
92	6	2168	OHX	1	0
92	5	4191	OHX	2	0
92	1	4238	OHX	1	0
92	5	4200	OHX	1	0
92	6	2181	OHX	1	0
92	5	4449	OHX	1	0
92	5	4524	OHX	1	0
92	5	4387	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	2	2077	OHX	4	0
92	1	4109	OHX	1	0
92	2	2094	OHX	1	0
92	1	4466	OHX	1	0
92	5	4206	OHX	1	0
92	5	4482	OHX	1	0
92	2	2236	OHX	1	0
92	5	4416	OHX	1	0
92	6	2210	OHX	1	0
92	2	2156	OHX	1	0
92	1	4499	OHX	2	0
92	1	4277	OHX	1	0
92	1	4478	OHX	2	0
92	5	4380	OHX	1	0
92	5	4436	OHX	1	0
92	5	4240	OHX	2	0
92	2	2202	OHX	1	0
92	2	2069	OHX	1	0
92	6	2329	OHX	1	0
92	5	4285	OHX	1	0
92	6	2216	OHX	2	0
92	1	4215	OHX	1	0
92	1	4340	OHX	1	0
92	1	4492	OHX	1	0
92	O1	202	OHX	1	0
92	4	241	OHX	1	0
92	1	4444	OHX	1	0
92	1	4125	OHX	1	0
92	2	2158	OHX	3	0
92	m5	304	OHX	1	0
92	5	4564	OHX	1	0
92	c5	202	OHX	7	0
92	8	237	OHX	3	0
92	5	4313	OHX	1	0
92	5	4216	OHX	1	0
92	2	2114	OHX	1	0
92	8	222	OHX	1	0
92	5	4456	OHX	1	0
92	5	4460	OHX	1	0
92	5	4556	OHX	3	0
92	1	4350	OHX	1	0
92	2	2081	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	2	2082	OHX	3	0
92	6	2294	OHX	2	0
92	6	2224	OHX	1	0
92	1	4143	OHX	2	0
92	6	2281	OHX	3	0
92	7	239	OHX	1	0
92	1	4378	OHX	1	0
92	1	4138	OHX	1	0
92	6	2258	OHX	1	0
92	5	4425	OHX	1	0
92	6	2311	OHX	2	0
92	2	2083	OHX	1	0
92	6	2238	OHX	1	0
92	5	4384	OHX	1	0
92	1	4274	OHX	2	0
92	5	4348	OHX	2	0
92	2	2217	OHX	1	0
92	5	4420	OHX	2	0
92	5	4534	OHX	1	0
92	6	2149	OHX	1	0
92	1	4186	OHX	1	0
92	2	2120	OHX	1	0
92	2	2104	OHX	2	0
92	5	4204	OHX	1	0
92	6	2245	OHX	1	0
92	5	4485	OHX	1	0
92	2	2177	OHX	1	0
92	2	2198	OHX	3	0
92	5	4309	OHX	1	0
92	7	230	OHX	2	0
92	1	4281	OHX	3	0
92	l5	310	OHX	1	0
92	1	4390	OHX	2	0
92	1	4429	OHX	1	0
92	6	2184	OHX	1	0
92	6	2180	OHX	1	0
92	6	2271	OHX	1	0
92	6	2305	OHX	1	0
92	6	2298	OHX	1	0
92	5	4157	OHX	1	0
92	1	4234	OHX	1	0
92	5	4366	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	4422	OHX	1	0
92	5	4542	OHX	1	0
92	1	4436	OHX	5	0
92	2	2074	OHX	4	0
92	1	4330	OHX	1	0
92	1	4275	OHX	2	0
92	8	231	OHX	2	0
92	M5	310	OHX	1	0
92	1	4152	OHX	1	0
92	1	4217	OHX	2	0
92	2	2087	OHX	1	0
92	5	4397	OHX	2	0
92	6	2208	OHX	1	0
92	1	4477	OHX	2	0
92	2	2112	OHX	1	0
92	6	2198	OHX	2	0
92	1	4315	OHX	2	0
92	2	2186	OHX	1	0
92	l4	404	OHX	3	0
92	1	4370	OHX	1	0
92	5	4452	OHX	1	0
92	5	4554	OHX	2	0
92	2	2211	OHX	1	0
92	5	4568	OHX	1	0
92	5	4213	OHX	2	0
92	5	4355	OHX	1	0
92	6	2297	OHX	1	0
92	1	4159	OHX	1	0
92	1	4286	OHX	1	0
92	5	4550	OHX	1	0
92	1	4174	OHX	1	0
92	5	4451	OHX	2	0
92	2	2243	OHX	5	0
92	6	2174	OHX	1	0
92	1	4139	OHX	1	0
92	1	4194	OHX	1	0
92	5	4338	OHX	1	0
92	8	228	OHX	1	0
92	5	4215	OHX	2	0
92	5	4458	OHX	2	0
92	5	4358	OHX	3	0
92	1	4359	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	2	2123	OHX	1	0
92	5	4219	OHX	1	0
92	2	2084	OHX	1	0
92	1	4243	OHX	1	0
92	5	4356	OHX	1	0
92	5	4541	OHX	1	0
92	5	4192	OHX	1	0
92	2	2212	OHX	1	0
92	5	4363	OHX	2	0
92	1	4419	OHX	2	0
92	5	4246	OHX	1	0
92	5	4243	OHX	1	0
92	5	4353	OHX	1	0
92	8	232	OHX	1	0
92	5	4459	OHX	1	0
92	2	2130	OHX	1	0
92	1	4373	OHX	1	0
92	6	2244	OHX	1	0
92	5	4457	OHX	1	0
92	8	225	OHX	1	0
92	m0	302	OHX	2	0
92	6	2318	OHX	2	0
92	2	2145	OHX	1	0
92	L2	305	OHX	1	0
92	2	2141	OHX	1	0
92	6	2241	OHX	1	0
92	6	2266	OHX	1	0
92	1	4103	OHX	1	0
92	l9	204	OHX	0	1
92	5	4395	OHX	1	0
92	M7	209	OHX	1	0
92	6	2316	OHX	1	0
92	5	4276	OHX	1	0
92	2	2137	OHX	1	0
92	1	4445	OHX	1	0
92	1	4268	OHX	1	0
92	5	4434	OHX	1	0
92	5	4344	OHX	1	0
92	6	2295	OHX	1	0
92	5	4184	OHX	1	0
92	1	4283	OHX	1	0
92	1	4348	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	4126	OHX	2	0
92	1	4166	OHX	1	0
92	6	2252	OHX	1	0
92	2	2230	OHX	2	0
92	1	4399	OHX	1	0
92	5	4158	OHX	2	0
92	1	4298	OHX	1	0
92	2	2215	OHX	1	0
92	2	2184	OHX	2	0
92	1	4100	OHX	1	0
92	6	2336	OHX	1	0
92	5	4518	OHX	1	0
92	6	2249	OHX	1	0
92	1	4505	OHX	2	0
92	6	2157	OHX	2	0
92	5	4286	OHX	1	0
92	5	4202	OHX	1	0
92	1	4381	OHX	1	0
92	1	4294	OHX	1	0
92	1	4296	OHX	2	0
92	1	4376	OHX	5	0
92	1	4415	OHX	4	0
92	1	4196	OHX	1	0
92	5	4398	OHX	1	0
92	3	231	OHX	1	0
92	5	4375	OHX	1	0
92	6	2225	OHX	2	0
92	5	4354	OHX	1	0
92	1	4172	OHX	1	0
92	1	4168	OHX	1	0
92	6	2204	OHX	2	0
92	6	2242	OHX	2	0
92	5	4311	OHX	1	0
92	1	4301	OHX	1	0
92	1	4484	OHX	1	0
92	1	4290	OHX	4	0
92	1	4502	OHX	1	0
92	3	224	OHX	2	0
92	1	4442	OHX	1	0
92	2	2165	OHX	1	0
92	1	4223	OHX	2	0
92	5	4346	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	6	2218	OHX	1	0
92	5	4279	OHX	2	0
92	6	2201	OHX	1	0
92	5	4467	OHX	1	0
92	1	4354	OHX	1	0
92	1	4101	OHX	2	0
92	m0	303	OHX	2	0
92	5	4528	OHX	1	0
92	1	4342	OHX	2	0
92	2	2171	OHX	1	0
92	O7	107	OHX	6	0
92	5	4232	OHX	1	0
92	1	4323	OHX	1	0
92	1	4226	OHX	1	0
92	2	2085	OHX	2	0
92	5	4289	OHX	2	0
92	5	4557	OHX	2	0
92	2	2131	OHX	1	0
92	5	4170	OHX	1	0
92	4	240	OHX	2	0
92	5	4504	OHX	2	0
92	5	4374	OHX	2	0
92	5	4260	OHX	5	0
92	5	4273	OHX	1	0
92	5	4163	OHX	1	0
92	1	4310	OHX	1	0
92	5	4310	OHX	1	0
92	2	2229	OHX	1	0
92	5	4341	OHX	2	0
92	2	2111	OHX	1	0
92	5	4174	OHX	1	0
92	2	2103	OHX	1	0
92	S8	303	OHX	1	0
92	8	224	OHX	1	0
92	1	4486	OHX	2	0
92	2	2238	OHX	1	0
92	5	4486	OHX	1	0
92	5	4426	OHX	1	0
92	l3	412	OHX	1	0
92	m0	305	OHX	1	0
92	1	4278	OHX	2	0
92	5	4386	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	4352	OHX	1	0
92	O7	108	OHX	1	0
92	2	2117	OHX	1	0
92	5	4290	OHX	1	0
92	1	4267	OHX	1	0
92	1	4358	OHX	2	0
92	5	4325	OHX	2	0
92	6	2189	OHX	1	0
92	1	4257	OHX	2	0
92	2	2203	OHX	4	0
92	5	4218	OHX	3	0
92	1	4155	OHX	2	0
92	1	4191	OHX	2	0
92	1	4124	OHX	4	0
92	C8	203	OHX	2	0
92	6	2209	OHX	1	0
92	6	2158	OHX	1	0
92	6	2176	OHX	1	0
92	5	4389	OHX	2	0
92	5	4547	OHX	2	0
92	5	4316	OHX	2	0
92	2	2152	OHX	3	0
92	2	2080	OHX	1	0
92	5	4156	OHX	2	0
92	1	4408	OHX	1	0
92	1	4493	OHX	1	0
92	5	4408	OHX	1	0
92	1	4385	OHX	5	0
92	1	4317	OHX	1	0
92	2	2255	OHX	3	0
92	2	2242	OHX	2	0
92	1	4140	OHX	1	0
92	2	2251	OHX	3	0
92	1	4292	OHX	1	0
92	2	2149	OHX	1	0
92	m5	303	OHX	2	0
92	5	4402	OHX	1	0
92	1	4236	OHX	3	0
92	2	2185	OHX	1	0
92	O7	109	OHX	1	0
92	6	2217	OHX	1	0
92	5	4537	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	4	236	OHX	1	0
92	5	4428	OHX	1	0
92	5	4403	OHX	1	0
92	1	4158	OHX	1	0
92	6	2219	OHX	1	0
92	1	4216	OHX	1	0
92	6	2315	OHX	1	0
92	1	4210	OHX	1	0
92	5	4560	OHX	1	0
92	N9	102	OHX	1	0
92	5	4210	OHX	1	0
92	5	4182	OHX	3	0
92	5	4526	OHX	1	0
92	2	2105	OHX	3	0
92	1	4188	OHX	1	0
92	6	2320	OHX	1	0
92	6	2211	OHX	2	0
92	1	4345	OHX	2	0
92	5	4336	OHX	1	0
92	1	4448	OHX	1	0
92	5	4205	OHX	2	0
92	q2	203	OHX	3	0
92	2	2179	OHX	1	0
92	1	4105	OHX	3	0
92	5	4490	OHX	1	0
92	1	4482	OHX	1	0
92	6	2221	OHX	1	0
92	5	4199	OHX	1	0
92	3	220	OHX	1	0
92	l5	309	OHX	1	0
92	1	4102	OHX	1	0
92	1	4393	OHX	2	0
92	M9	204	OHX	1	0
92	1	4104	OHX	1	0
92	5	4303	OHX	1	0
92	5	4553	OHX	1	0
92	6	2250	OHX	2	0
92	5	4407	OHX	1	0
92	1	4245	OHX	1	0
92	5	4217	OHX	1	0
92	1	4379	OHX	1	0
92	1	4175	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	4180	OHX	1	0
92	5	4558	OHX	3	0
92	6	2239	OHX	1	0
92	5	4462	OHX	2	0
92	6	2151	OHX	1	0
92	6	2324	OHX	1	0
92	1	4135	OHX	1	0
92	2	2181	OHX	2	0
92	5	4479	OHX	1	0
92	5	4474	OHX	2	0
92	1	4253	OHX	2	0
92	5	4275	OHX	1	0
92	2	2093	OHX	1	0
92	5	4284	OHX	1	0
92	1	4400	OHX	2	0
92	5	4361	OHX	1	0
92	5	4297	OHX	1	0
92	2	2201	OHX	1	0
92	1	4151	OHX	1	0
92	2	2252	OHX	1	0
92	m9	202	OHX	1	0
92	5	4373	OHX	1	0
92	1	4322	OHX	1	0
92	6	2226	OHX	1	0
92	6	2169	OHX	2	0
92	5	4322	OHX	2	0
92	5	4503	OHX	1	0
92	3	219	OHX	1	0
92	5	4394	OHX	1	0
92	1	4377	OHX	2	0
92	1	4357	OHX	1	0
92	5	4228	OHX	2	0
92	6	2230	OHX	1	0
92	1	4209	OHX	1	0
92	5	4441	OHX	1	0
92	c1	201	OHX	1	0
92	d4	201	OHX	1	0
92	5	4464	OHX	2	0
92	5	4491	OHX	1	0
92	1	4231	OHX	1	0
92	1	4396	OHX	1	0
92	5	4237	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	2	2134	OHX	1	0
92	1	4211	OHX	1	0
92	2	2183	OHX	1	0
92	5	4263	OHX	1	0
92	6	2337	OHX	1	0
92	2	2245	OHX	2	0
92	6	2257	OHX	1	0
92	6	2205	OHX	1	0
92	6	2296	OHX	2	0
92	M0	307	OHX	4	0
92	1	4118	OHX	1	0
92	2	2225	OHX	1	0
92	1	4289	OHX	1	0
92	2	2144	OHX	1	0

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
84	sM	2
86	m2	2
35	SM	1
80	c0	1
1	2	1
6	s4	1
42	l5	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	sM	85:SER	C	119:UNK	N	43.93
1	sM	139:UNK	C	155:UNK	N	38.21
1	SM	141:ALA	C	151:UNK	N	26.51
1	c0	84:UNK	C	87:UNK	N	7.82
1	2	1716:C	O3'	1717:G	P	3.78
1	m2	23:UNK	C	28:UNK	N	3.12

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	m2	52:UNK	C	54:UNK	N	3.12
1	s4	82:TYR	C	83:PRO	N	1.20
1	l5	179:ARG	C	180:PHE	N	1.18

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS failed to run properly - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains

EDS failed to run properly - this section is therefore empty.

6.3 Carbohydrates

EDS failed to run properly - this section is therefore empty.

6.4 Ligands

EDS failed to run properly - this section is therefore empty.

6.5 Other polymers

EDS failed to run properly - this section is therefore empty.