Full wwPDB X-ray Structure Validation Report (i)

Mar 6, 2026 – 12:43 PM UTC

PDB ID	:	5I4L / pdb_00005i4l
Title	:	Crystal structure of Amicoumacin A bound to the yeast 80S ribosome
Authors	:	Prokhorova, I.V.; Yusupova, G.; Yusupov, M.
Deposited on	:	2016-02-12
Resolution	:	3.10 Å(reported)

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

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

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

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

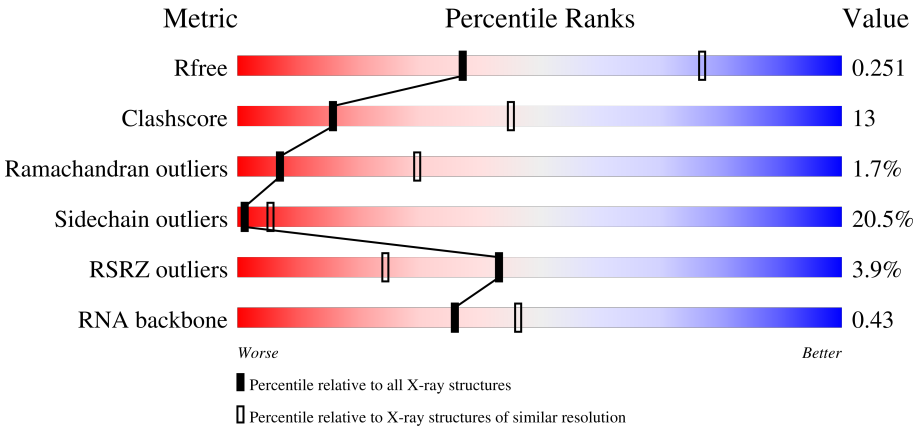
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1456 (3.10-3.10)
Clashscore	190562	1539 (3.10-3.10)
Ramachandran outliers	187476	1467 (3.10-3.10)
Sidechain outliers	187428	1467 (3.10-3.10)
RSRZ outliers	180081	1456 (3.10-3.10)
RNA backbone	3983	1022 (3.32-2.88)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	2	1800	2% 42% 41% 16%
1	6	1800	2% 45% 41% 14%
2	S0	206	5% 52% 39% 8%
2	s0	206	6% 50% 36% 11%

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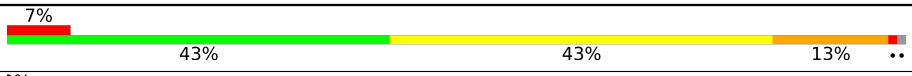
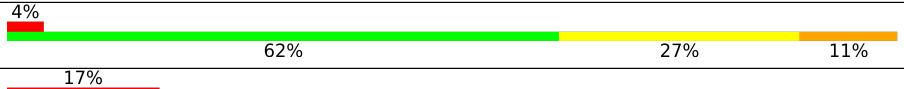
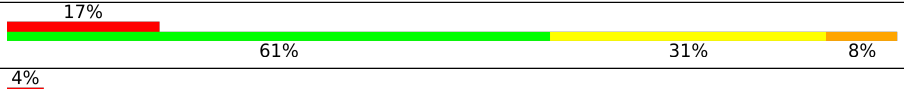
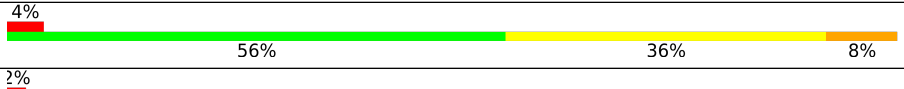
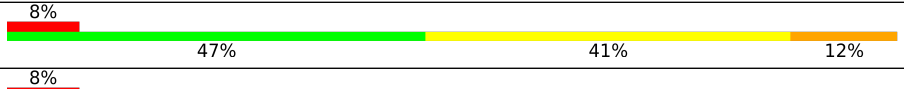
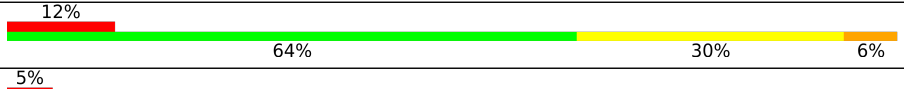
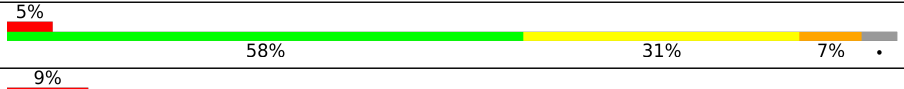
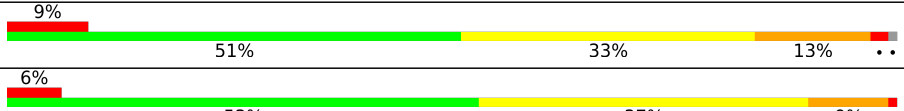
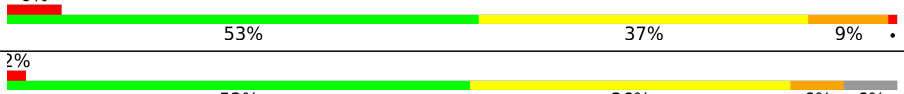
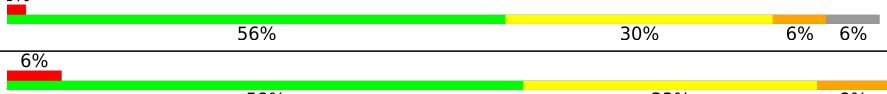
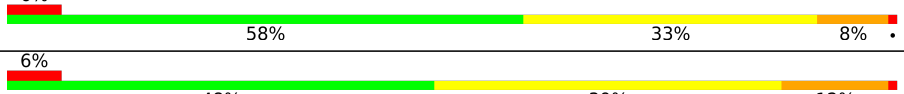
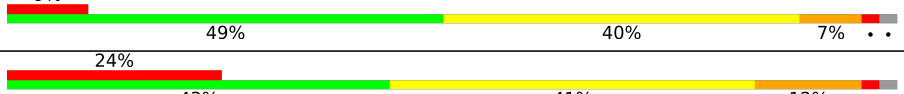
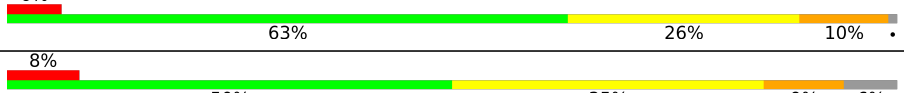
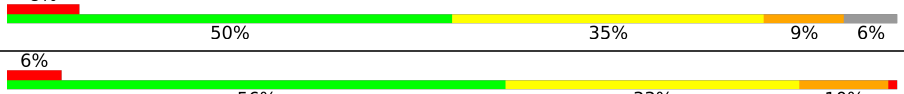
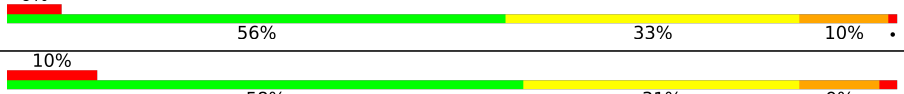
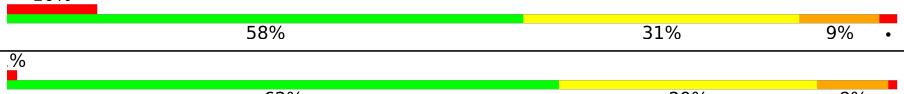
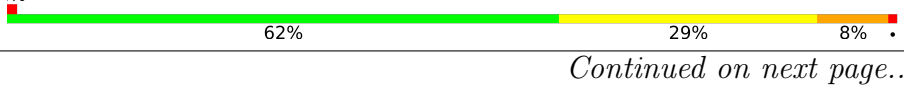
Mol	Chain	Length	Quality of chain
3	S1	216	
3	s1	216	
4	S2	217	
4	s2	217	
5	S3	223	
5	s3	223	
6	S4	260	
6	s4	260	
7	S5	206	
7	s5	206	
8	S6	226	
8	s6	226	
9	S7	186	
9	s7	186	
10	S8	200	
10	s8	200	
11	S9	185	
11	s9	185	
12	C0	98	
12	c0	98	
13	C1	156	
13	c1	156	
14	C2	124	
14	c2	124	
15	C3	150	

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Mol	Chain	Length	Quality of chain
15	c3	150	57% 36% 5%
16	C4	128	16% 53% 38% 8%
16	c4	128	3% 53% 36% 10%
17	C5	142	6% 47% 32% 8% 13%
17	c5	142	25% 46% 38% 11% 5%
18	C6	142	16% 46% 40% 12%
18	c6	142	15% 51% 37% 11%
19	C7	136	12% 45% 31% 10% 12%
19	c7	136	5% 48% 30% 7% 14%
20	C8	145	9% 53% 34% 11%
20	c8	145	7% 50% 37% 12%
21	C9	143	11% 51% 38% 11%
21	c9	143	59% 35% 6%
22	D0	110	19% 45% 41% 11%
22	d0	110	14% 44% 42% 14%
23	D1	87	51% 38% 11%
23	d1	87	38% 53% 9%
24	D2	129	5% 51% 38% 10%
24	d2	129	59% 30% 11%
25	D3	144	56% 35% 8%
25	d3	144	58% 39%
26	D4	134	4% 60% 28% 9%
26	d4	134	4% 59% 34% 7%
27	D5	70	9% 41% 46% 11%
27	d5	70	3% 41% 43% 14%

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Mol	Chain	Length	Quality of chain
28	D6	97	20% 37% 46% 13%
28	d6	97	7% 60% 26% 12%
29	D7	81	2% 62% 30% 9%
29	d7	81	2% 57% 40%
30	D8	63	10% 40% 52% 8%
30	d8	63	10% 49% 43% 8%
31	D9	53	23% 55% 40% 6%
31	d9	53	21% 58% 28% 13%
32	E0	62	6% 65% 19% 13%
32	e0	62	10% 52% 40% 8%
33	E1	76	17% 43% 29% 17% 7%
33	e1	76	30% 37% 43% 14% 5%
34	SR	318	12% 63% 32% 5%
34	sR	318	6% 59% 36% 5%
35	SM	176	9% 61% 22% 8% 10%
36	1	3396	% 46% 37% 10% 7%
36	5	3396	% 47% 35% 11% 7%
37	3	121	51% 44% 5%
37	7	121	% 52% 41% 7%
38	4	158	47% 41% 12%
38	8	158	3% 53% 36% 11%
39	L2	252	2% 63% 29% 8%
39	l2	252	5% 56% 33% 11%
40	L3	386	3% 55% 36% 9%
40	l3	386	% 52% 39% 9%

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Mol	Chain	Length	Quality of chain
41	L4	361	56% 35% 9%
41	l4	361	57% 34% 8%
42	L5	296	4% 52% 38% 9%
42	l5	296	2% 62% 29% 8%
43	L6	176	60% 24% 5% 11%
43	l6	176	60% 22% 7% 11%
44	L7	223	62% 33%
44	l7	223	62% 29% 8%
45	L8	233	5% 62% 29% 9%
46	L9	191	7% 47% 39% 15%
46	l9	191	52% 35% 13%
47	M0	221	5% 56% 34% 5% 5%
47	m0	221	4% 53% 34% 9%
48	M1	169	5% 51% 33% 16%
48	m1	169	60% 30% 10%
49	M3	194	2% 53% 39% 8%
49	m3	194	2% 60% 31% 7%
50	M4	137	2% 61% 31% 6%
50	m4	137	3% 68% 27%
51	M5	203	59% 31% 9%
51	m5	203	2% 57% 38%
52	M6	197	2% 65% 27% 7%
52	m6	197	64% 26% 10%
53	M7	183	4% 56% 34% 9%
53	m7	183	47% 31% 7% 15%

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Mol	Chain	Length	Quality of chain
54	M8	185	2% 66% 29%
54	m8	185	% 61% 32% 7%
55	M9	188	5% 60% 32% 8%
55	m9	188	3% 70% 27%
56	N0	172	2% 58% 30% 11%
56	n0	172	% 61% 31% 8%
57	N1	159	3% 51% 36% 13%
57	n1	159	% 62% 27% 11%
58	N2	100	3% 62% 33% 5%
58	n2	100	2% 64% 24% 10%
59	N3	136	% 66% 27% 7%
59	n3	136	% 60% 32% 7%
60	N4	98	26% 76% 19% 5%
61	N5	121	5% 56% 36% 8%
61	n5	121	6% 59% 34% 7%
62	N6	126	2% 54% 35% 11%
62	n6	126	3% 54% 34% 12%
63	N7	135	% 50% 42% 8%
63	n7	135	2% 57% 35% 7%
64	N8	148	2% 60% 32% 7%
64	n8	148	% 50% 40% 9%
65	N9	58	9% 67% 26% 7%
65	n9	58	9% 62% 24% 12%
66	O0	100	3% 52% 34% 11%
66	o0	100	5% 61% 31% 8%

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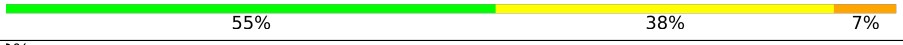
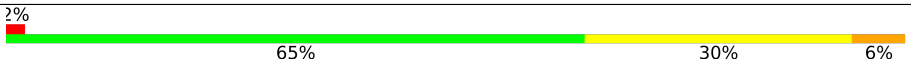
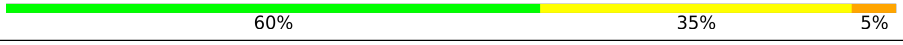
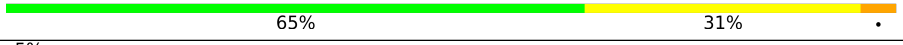
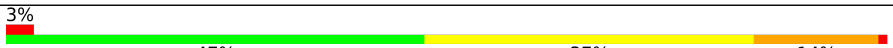
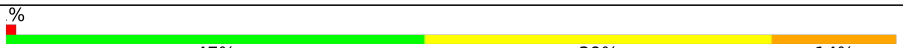
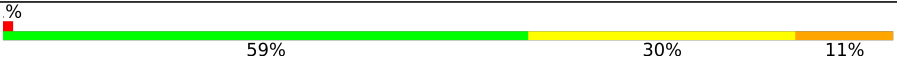
Mol	Chain	Length	Quality of chain
67	O1	109	
67	o1	109	
68	O2	127	
68	o2	127	
69	O3	106	
69	o3	106	
70	O4	112	
70	o4	112	
71	O5	119	
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76	Q0	52	
76	q0	52	
77	Q1	25	
77	q1	25	
78	Q2	105	
78	q2	105	
79	Q3	91	

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Mol	Chain	Length	Quality of chain
79	q3	91	2% 58% 33% 8%
80	sM	159	6% 43% 18% 35%
81	l8	231	8% 62% 28% 10%
82	m2	155	86% 10%
83	n4	135	8% 69% 26%
84	p0	312	5% 28% 15% 54%
85	p1	47	87% 13%
85	p2	47	98%

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
86	OHX	1	3496	-	-	X	-
86	OHX	1	3701	-	-	X	-
86	OHX	1	3712	-	-	X	-
86	OHX	5	3479	-	-	X	-
86	OHX	5	3504	-	-	X	-
86	OHX	5	3691	-	-	X	-
86	OHX	5	3709	-	-	-	X
86	OHX	6	1922	-	-	X	-
86	OHX	6	1956	-	-	X	-
86	OHX	O1	201	-	-	X	-
87	MG	1	3729	-	-	-	X
87	MG	1	3932	-	-	-	X
87	MG	1	4035	-	-	-	X
87	MG	2	2051	-	-	-	X
87	MG	2	2058	-	-	-	X
87	MG	2	2077	-	-	-	X
87	MG	2	2080	-	-	-	X
87	MG	2	2083	-	-	-	X
87	MG	2	2108	-	-	-	X
87	MG	2	2111	-	-	-	X
87	MG	2	2112	-	-	-	X
87	MG	6	2060	-	-	-	X
87	MG	6	2091	-	-	-	X

2 Entry composition (i)

There are 89 unique types of molecules in this entry. The entry contains 410475 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 ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	2	1781	Total	C	N	O	P	0	0	0
			37948	16965	6715	12487	1781			
1	6	1795	Total	C	N	O	P	0	0	0
			38238	17095	6758	12590	1795			

- 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.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	C0	96	Total	C	N	O	S	0	0	0
			772	499	126	145	2			
12	c0	96	Total	C	N	O	S	0	0	0
			761	490	125	144	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	C1	155	Total	C	N	O	S	0	0	0
			1213	774	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			
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-B.

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			
17	c5	135	Total	C	N	O	S	0	0	0
			1039	658	196	178	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			

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	E0	60	Total	C	N	O	S	0	0	0
			475	299	98	77	1			
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			
34	sR	318	Total	C	N	O	S	0	0	0
			2438	1541	417	472	8			

- 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	652	221	231			

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

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 ribosomal RNA.

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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 ribosomal RNA.

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			

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
58	N2	100	Total	C	N	O	0	0	0
			796	516	131	149			
58	n2	98	Total	C	N	O	0	0	0
			778	505	127	146			

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

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

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

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

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

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

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

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

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

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

- 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			
69	o3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

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

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

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

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

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

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

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

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

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

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

- 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			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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 Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
80	sM	104	Total	C	N	O	0	0	0
			680	403	140	137			

- Molecule 81 is a protein called 60S ribosomal protein L8-A.

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

- Molecule 82 is a protein called 60S ribosomal protein L12.

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

- Molecule 83 is a protein called 60S ribosomal protein L24-A.

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

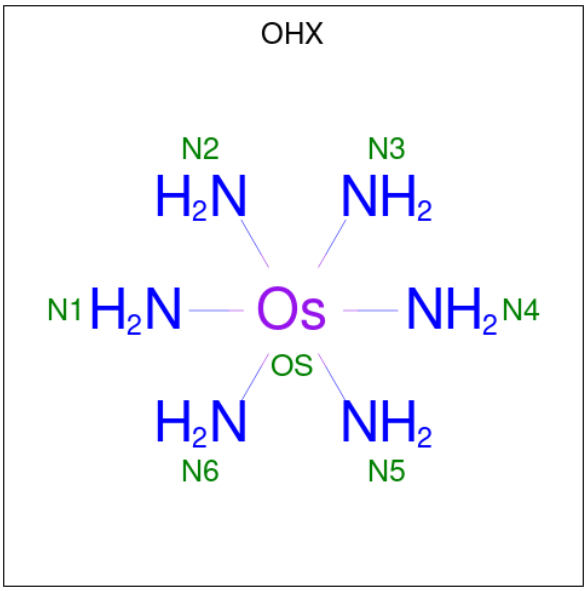
- Molecule 84 is a protein called 60S acidic ribosomal protein P0.

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

- Molecule 85 is a protein called Ribosomal protein P1 alpha, P2 beta.

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

- Molecule 86 is osmium (III) hexammine (CCD ID: OHX) (formula: $H_{12}N_6Os$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
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86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	2	1	Total	N	Os	0	0
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86	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	2	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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86	S9	1	Total 7	N 6	Os 1	0	0
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86	C5	1	Total 7	N 6	Os 1	0	0
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86	1	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	1	1	Total 7	N 6	Os 1	0	0
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86	1	1	Total 7	N 6	Os 1	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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			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
86	1	1	Total	N	Os	0	0
			7	6	1		
86	1	1	Total	N	Os	0	0
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			7	6	1		
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	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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86	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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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	3	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	L3	1	Total	N	Os	0	0
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86	L4	1	Total	N	Os	0	0
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86	M0	1	Total	N	Os	0	0
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86	M5	1	Total	N	Os	0	0
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86	M7	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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86	N9	1	Total N Os 7 6 1	0	0
86	O1	1	Total N Os 7 6 1	0	0
86	O3	1	Total N Os 7 6 1	0	0
86	Q2	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
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86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
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86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
			7	6	1		
86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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86	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	6	1	Total	N	Os	0	0
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86	c5	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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			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	7	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	l3	1	Total	N	Os	0	0
			7	6	1		
86	l3	1	Total	N	Os	0	0
			7	6	1		
86	l4	1	Total	N	Os	0	0
			7	6	1		
86	l5	1	Total	N	Os	0	0
			7	6	1		
86	l5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	l9	1	Total N Os 7 6 1	0	0
86	m0	1	Total N Os 7 6 1	0	0
86	m0	1	Total N Os 7 6 1	0	0
86	m4	1	Total N Os 7 6 1	0	0
86	m5	1	Total N Os 7 6 1	0	0
86	m6	1	Total N Os 7 6 1	0	0
86	n1	1	Total N Os 7 6 1	0	0
86	n3	1	Total N Os 7 6 1	0	0
86	n3	1	Total N Os 7 6 1	0	0
86	n9	1	Total N Os 7 6 1	0	0
86	o3	1	Total N Os 7 6 1	0	0
86	o7	1	Total N Os 7 6 1	0	0
86	q2	1	Total N Os 7 6 1	0	0

- Molecule 87 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
87	2	91	Total Mg 91 91	0	0
87	S2	1	Total Mg 1 1	0	0
87	D3	1	Total Mg 1 1	0	0
87	1	353	Total Mg 353 353	0	0
87	3	8	Total Mg 8 8	0	0
87	4	17	Total Mg 17 17	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
87	L2	2	Total Mg 2 2	0	0
87	L3	1	Total Mg 1 1	0	0
87	L4	1	Total Mg 1 1	0	0
87	L7	3	Total Mg 3 3	0	0
87	M0	1	Total Mg 1 1	0	0
87	M3	2	Total Mg 2 2	0	0
87	M5	2	Total Mg 2 2	0	0
87	M7	3	Total Mg 3 3	0	0
87	M9	1	Total Mg 1 1	0	0
87	N3	1	Total Mg 1 1	0	0
87	N8	2	Total Mg 2 2	0	0
87	O2	1	Total Mg 1 1	0	0
87	O7	1	Total Mg 1 1	0	0
87	Q2	1	Total Mg 1 1	0	0
87	6	98	Total Mg 98 98	0	0
87	c1	1	Total Mg 1 1	0	0
87	c6	1	Total Mg 1 1	0	0
87	d3	1	Total Mg 1 1	0	0
87	d6	1	Total Mg 1 1	0	0
87	sM	1	Total Mg 1 1	0	0
87	5	383	Total Mg 383 383	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
87	7	11	Total Mg 11 11	0	0
87	8	9	Total Mg 9 9	0	0
87	l2	3	Total Mg 3 3	0	0
87	l3	1	Total Mg 1 1	0	0
87	m5	3	Total Mg 3 3	0	0
87	m7	2	Total Mg 2 2	0	0
87	n3	1	Total Mg 1 1	0	0
87	n6	2	Total Mg 2 2	0	0
87	n8	2	Total Mg 2 2	0	0
87	n9	1	Total Mg 1 1	0	0
87	o7	2	Total Mg 2 2	0	0
87	q0	1	Total Mg 1 1	0	0
87	q1	1	Total Mg 1 1	0	0
87	q2	1	Total Mg 1 1	0	0

- Molecule 88 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
88	D6	1	Total Zn 1 1	0	0
88	D7	1	Total Zn 1 1	0	0
88	D9	1	Total Zn 1 1	0	0
88	E1	1	Total Zn 1 1	0	0
88	O7	1	Total Zn 1 1	0	0

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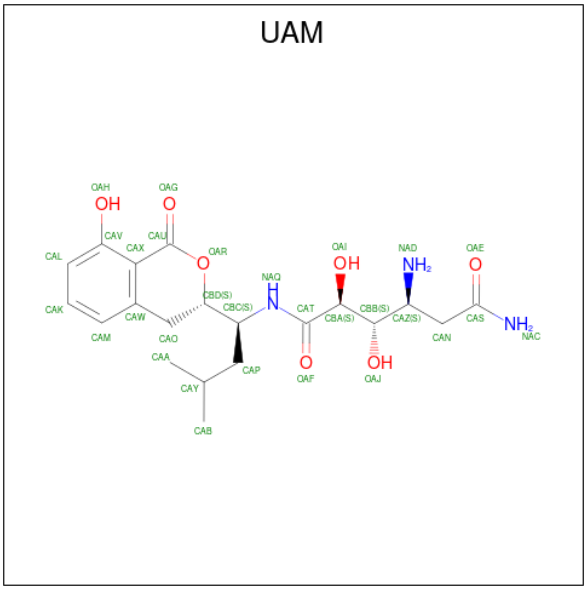
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
88	Q0	1	Total Zn 1 1	0	0
88	Q2	1	Total Zn 1 1	0	0
88	Q3	1	Total Zn 1 1	0	0
88	d6	1	Total Zn 1 1	0	0
88	d7	1	Total Zn 1 1	0	0
88	d9	1	Total Zn 1 1	0	0
88	e1	1	Total Zn 1 1	0	0
88	o7	1	Total Zn 1 1	0	0
88	q0	1	Total Zn 1 1	0	0
88	q2	1	Total Zn 1 1	0	0
88	q3	1	Total Zn 1 1	0	0

- Molecule 89 is Amicoumacin A (CCD ID: UAM) (formula: $C_{20}H_{29}N_3O_7$).



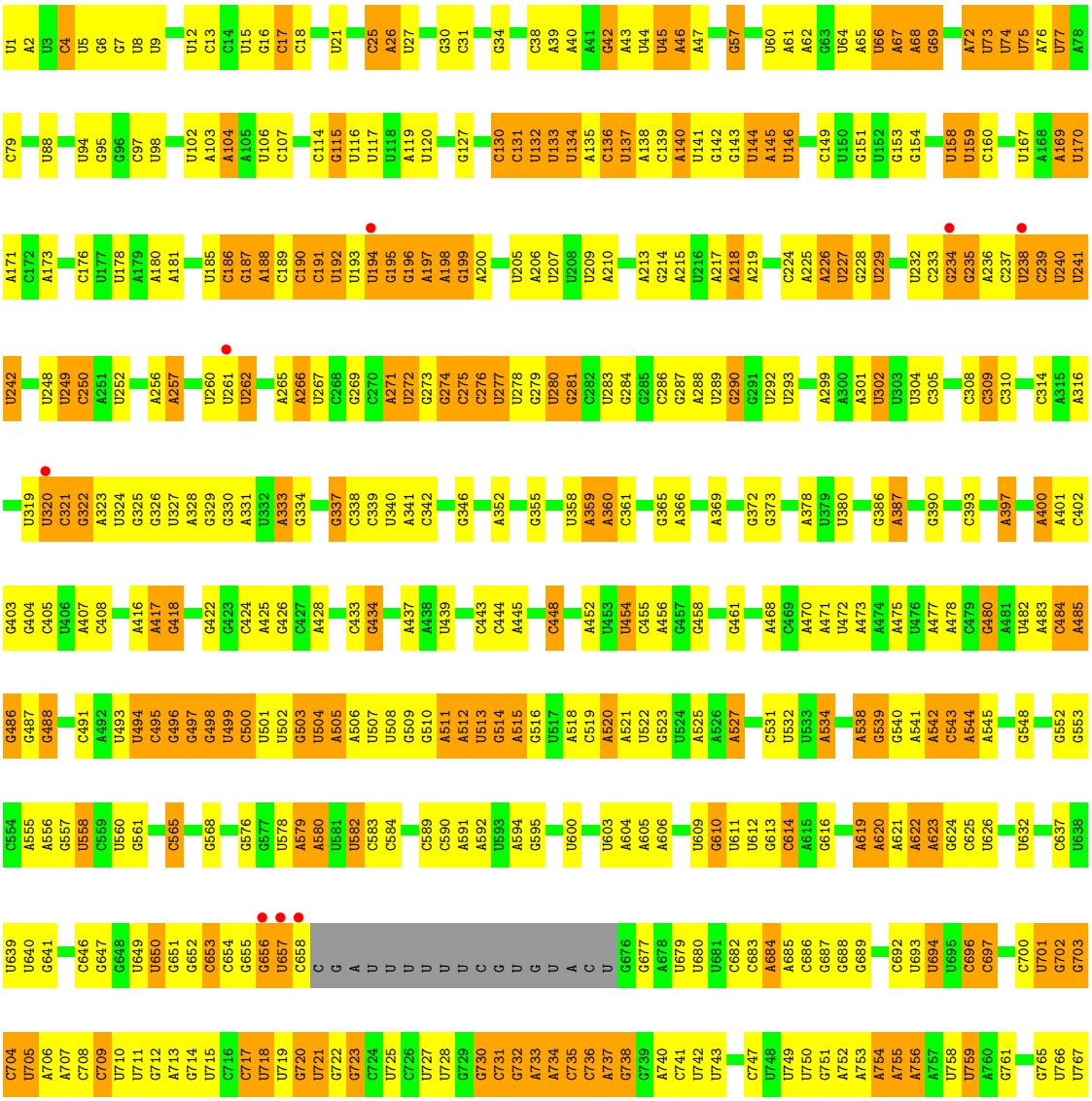
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
89	6	1	Total	C	N	O	0	0
			30	20	3	7		

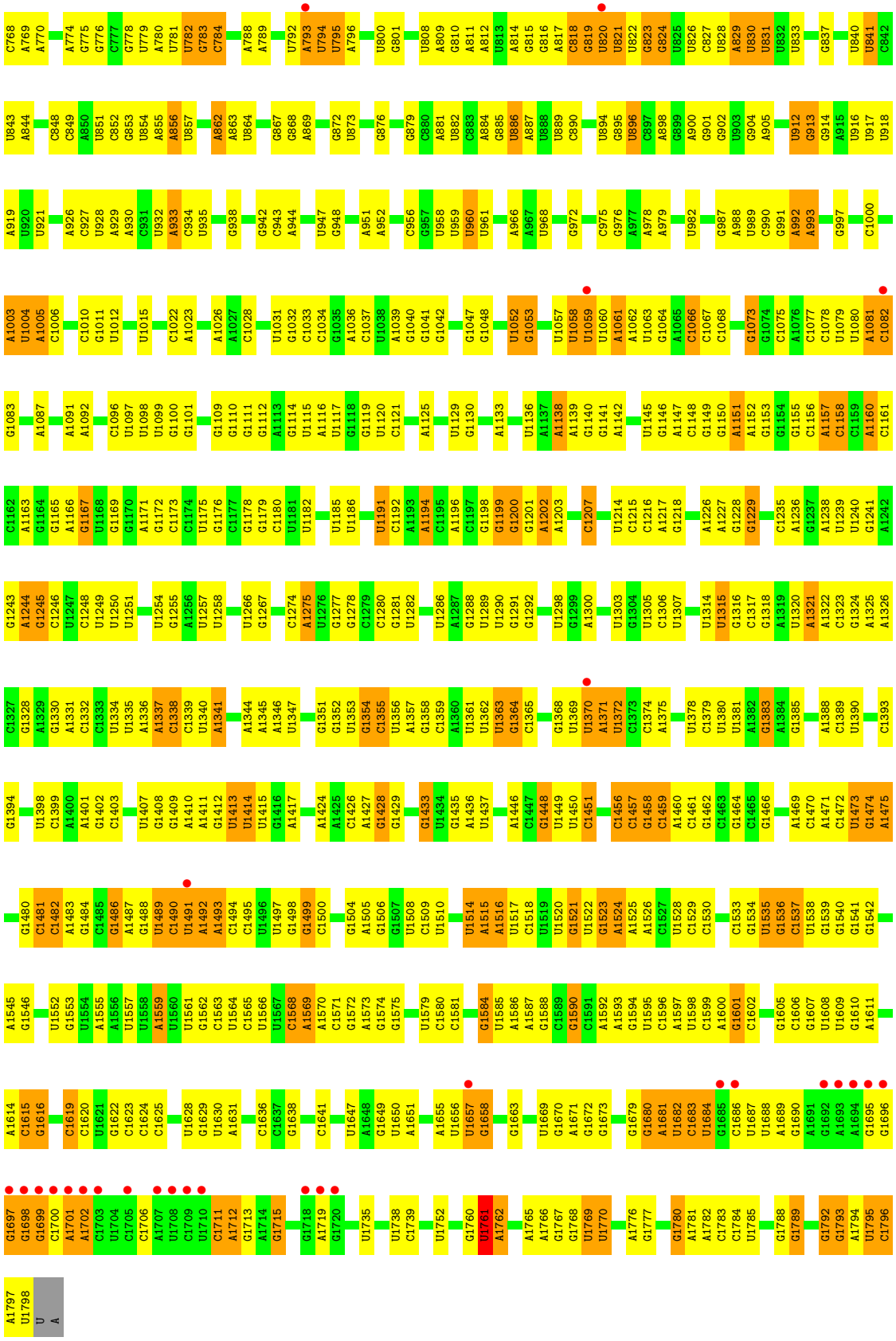
3 Residue-property plots (i)

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

- Molecule 1: 18S ribosomal RNA

Chain 2:

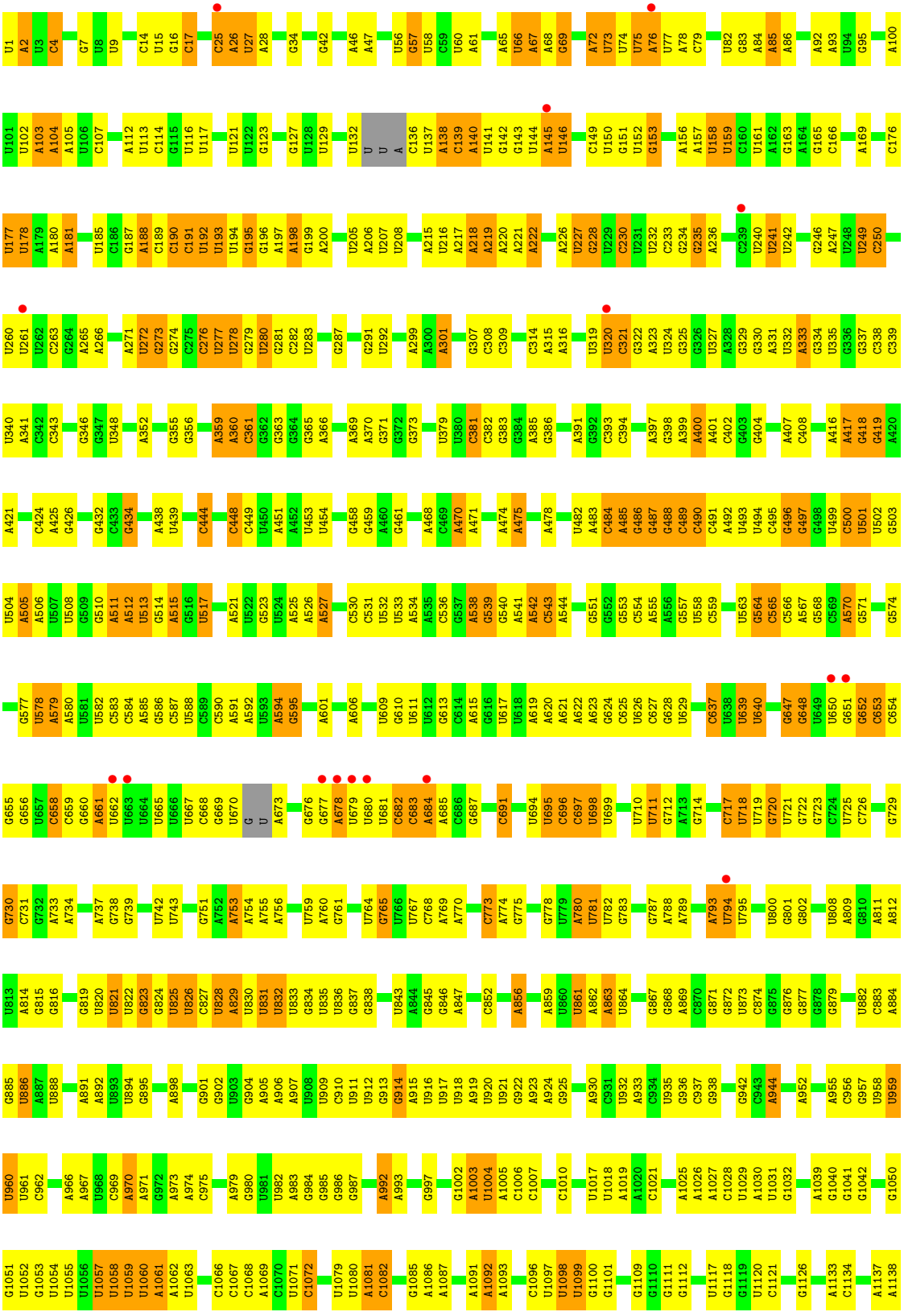


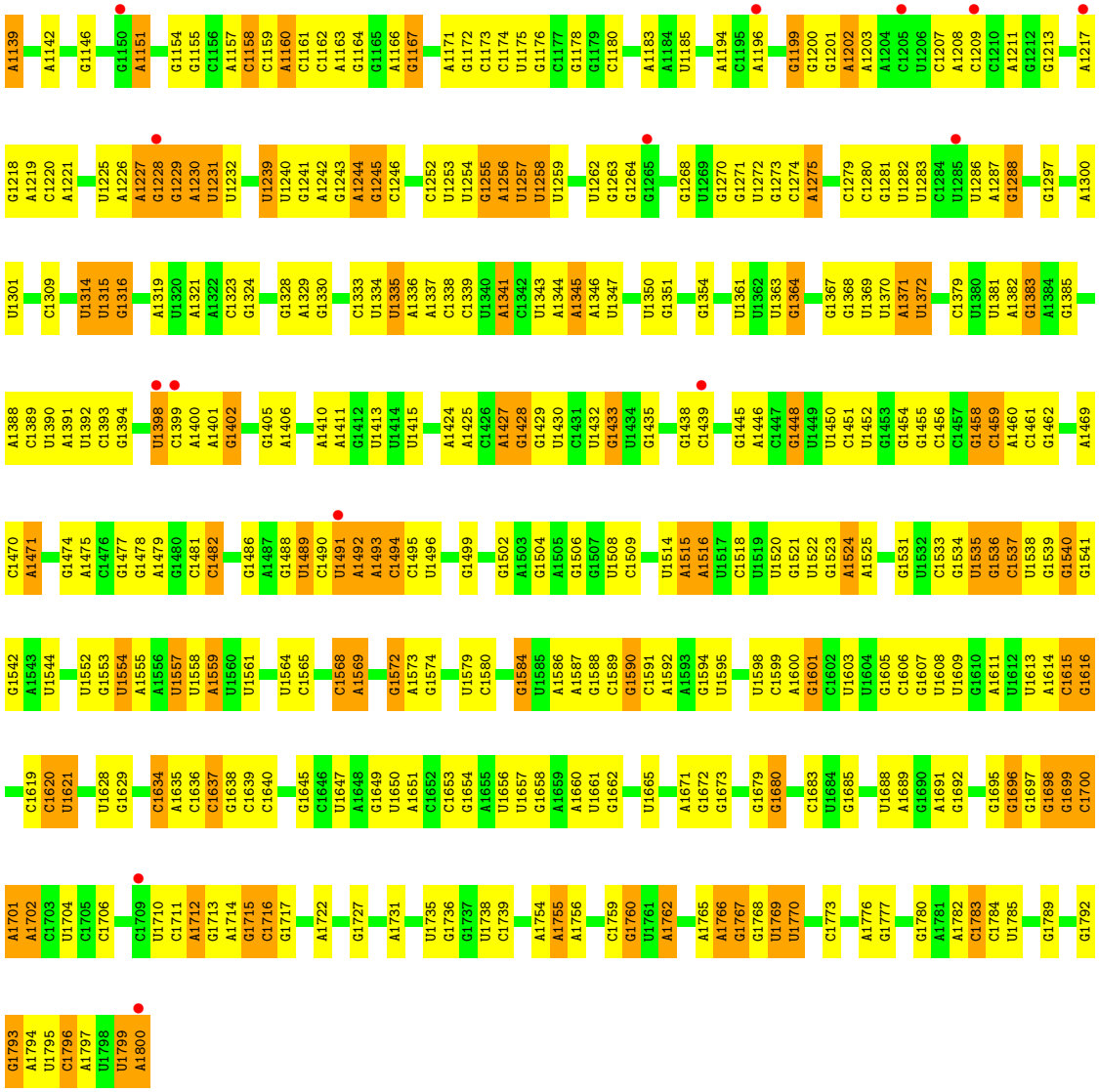


• Molecule 1: 18S ribosomal RNA

Chain 6:

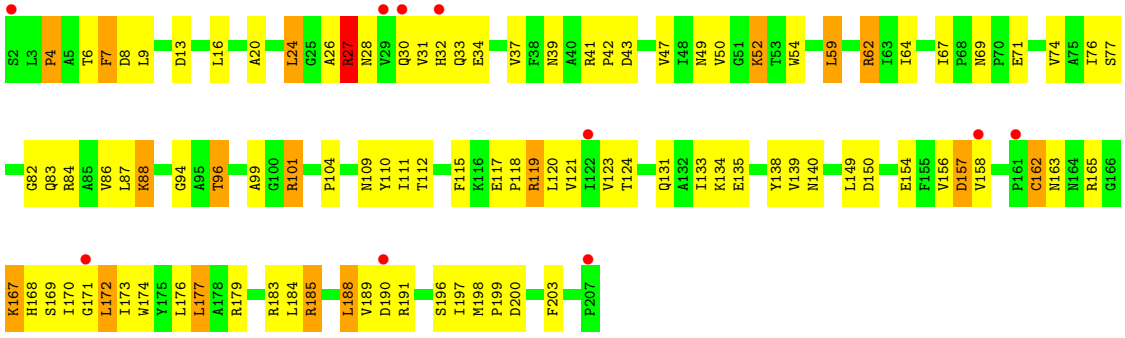
2%
45%
41%
14%


U1 A2 U3 C4 G7 U8 U9 C14 U15 G16 C17 C25 A26 U27 A28 G34 G42 A46 A47 U56 G57 U58 C59 U60 A61 A65 U66 A67 A68 G69 A72 U73 U74 U75 A76 U77 A78 C79 U82 G83 A84 A85 A86 A92 A93 U94 G95 A100
U101 U102 A103 A104 A105 U106 C107 A112 U113 C114 G115 U116 U117 U121 U122 G123 G127 U128 U129 U132 U C A C136 U137 A138 C139 A140 U141 G142 G143 U144 A145 U146 C149 U150 G151 U152 G153 A156 A157 U158 U159 C160 U161 A162 G163 A164 G165 C166 A169 C176
U177 U178 A179 A180 A181 U185 C186 G187 A188 C189 C190 C191 U192 U193 U194 G195 G196 A197 A198 G199 A200 U205 A206 U207 U208 A215 U216 A217 A218 A219 A220 A221 A222 A226 U227 G228 U229 C230 U231 U232 C233 G234 G235 A236 C239 U240 U241 U242 G246 A247 U248 U249 C250
U260 U261 U262 C263 G264 A265 A266 A271 U272 G273 G274 C275 C276 U277 U278 G279 U280 G281 C282 U283 G287 G291 U292 A299 A300 A301 G307 C308 C309 C314 A315 A316 U319 U320 C321 G322 A323 U324 G325 G326 U327 A328 G329 G330 A331 U332 A333 G334 U335 G336 G337 C338 C339
U340 A341 C342 C343 G346 G347 U348 A352 G355 G356 A359 A360 C361 G362 G363 G364 G365 A366 A369 A370 G371 G372 G373 U379 U380 C381 C382 G383 G384 A385 G386 A391 G392 C393 C394 A397 G398 A399 A400 A401 C402 G403 G404 A407 C408 A416 A417 G418 G419 A420
A421 C424 A425 G426 G432 C433 G434 A438 U439 C444 C448 C449 U450 A451 A452 U453 U454 G458 G459 A460 G461 A468 C469 A470 A471 A474 A475 A478 U482 A483 C484 A485 G486 G487 G488 C489 C490 C491 A492 U493 U494 C495 G496 G497 G498 U499 C500 U501 U502 G503
U504 A505 A506 U507 U508 G509 G510 A511 A512 U513 G514 A515 G516 U517 A521 U522 G523 U524 A525 A526 A527 C530 C531 U532 U533 A534 A535 C536 G537 A538 G539 G540 A541 A542 C543 A544 G551 G552 G553 C554 A555 A556 G557 U558 C559 U563 G564 C565 C566 A567 G568 C569 A570 G571 G574
G577 U578 A579 A580 U581 U582 C583 C584 A585 G586 C587 U588 C589 C590 A591 A592 U593 A594 G595 A601 A606 U609 G610 U611 U612 G613 C614 A615 G616 U617 U618 A619 A620 A621 A622 A623 G624 C625 U626 C627 G628 U629 C637 U638 U639 U640 G647 G648 U649 U650 G651 G652 C653 C654
G655 G656 U657 C658 C659 G660 A661 U662 U663 U664 U665 U666 U667 C668 G669 U670 G U A673 G676 G677 A678 U679 U680 U681 C682 C683 A684 A685 C686 G687 C691 U694 U695 C696 C697 U698 U699 U710 U711 G712 A713 G714 C717 U718 U719 G720 U721 G722 G723 C724 U725 C726 G729
G730 C731 G732 A733 A734 A737 G738 G739 U742 U743 G751 A752 A753 A754 A755 A756 U759 A760 G761 U764 G765 U766 U767 C768 A769 A770 C773 A774 G775 G778 U779 A780 U781 U782 G783 G787 A788 A789 A793 U794 U795 U800 G801 G802 U808 A809 G810 A811 A812
U813 A814 C815 G816 G819 U820 U821 U822 G823 G824 U825 U826 C827 U828 A829 U830 U831 U832 U833 G834 U835 U836 G837 G838 U843 A844 G845 G846 A847 C852 A856 A859 U860 U861 A862 A863 U864 G867 G868 A869 C870 G871 G872 U873 C874 G875 G876 G877 G878 G879 U882 C883 A884
G885 U886 A887 U888 A891 A892 U893 U894 G895 A898 G901 G902 U903 G904 A905 A906 A907 U908 U909 C910 U911 U912 G913 G914 A915 U916 U917 U918 A919 U920 U921 G922 A923 A924 G925 A930 C931 U932 A933 C934 U935 G936 C937 G938 G942 C943 A944 A952 A955 C956 G957 U958 U959
U960 U961 C962 A966 A967 U968 C969 A970 A971 G972 A973 A974 C975 A979 G980 U981 U982 A983 G984 U985 G986 G987 A992 A993 G997 G1002 A1003 U1004 A1005 C1006 C1007 C1010 U1017 U1018 A1019 A1020 C1021 A1025 A1026 A1027 C1028 U1029 A1030 U1031 G1032 A1039 G1040 G1041 G1042 G1050
G1051 U1052 G1053 U1054 U1055 U1056 U1057 U1058 U1059 U1060 A1061 A1062 U1063 C1066 C1067 C1068 A1069 C1070 U1071 C1072 U1079 U1080 A1081 C1082 G1085 A1086 A1087 A1091 A1092 A1093 C1096 U1097 U1098 U1099 G1100 G1101 G1109 G1110 G1111 G1112 U1117 G1118 G1119 U1120 C1121 G1126 A1133 C1134 A1137 A1138



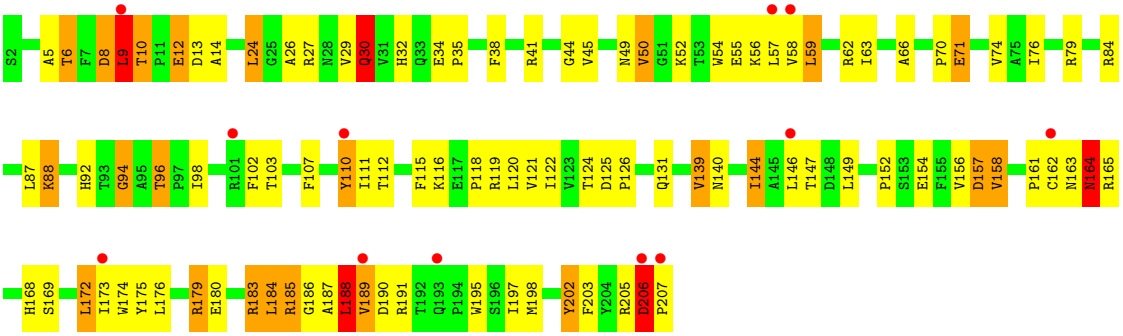
• Molecule 2: 40S ribosomal protein S0-A

Chain S0:



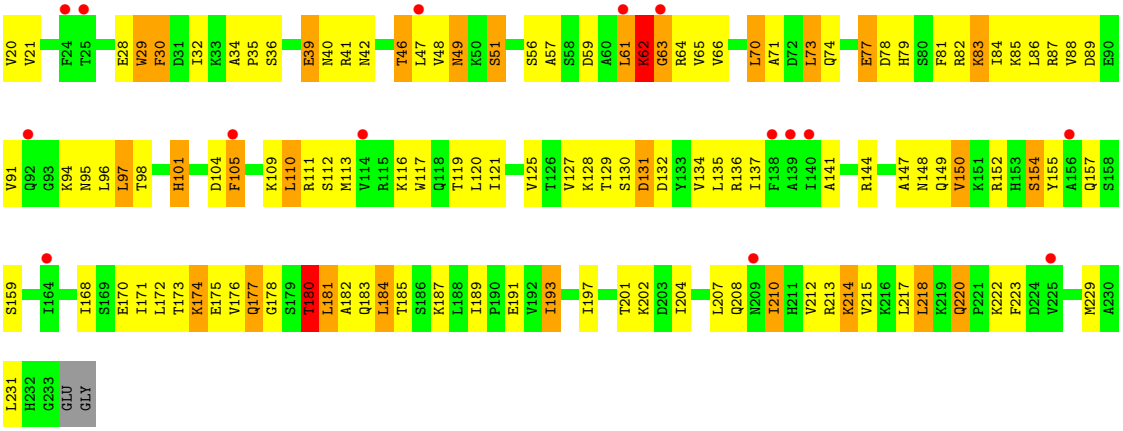
• Molecule 2: 40S ribosomal protein S0-A

Chain s0:



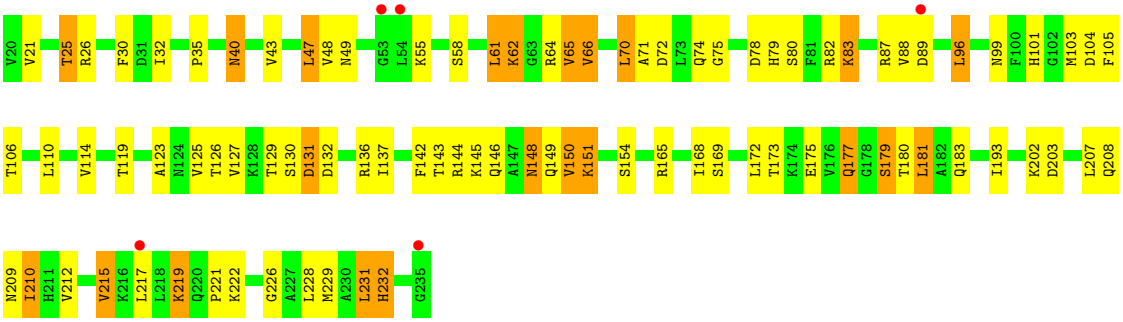
• Molecule 3: 40S ribosomal protein S1-A

Chain S1:



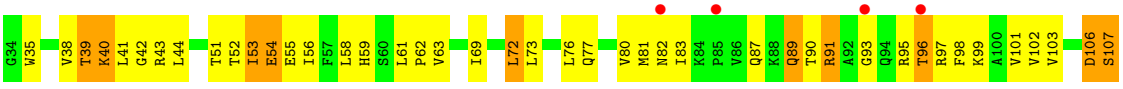
• Molecule 3: 40S ribosomal protein S1-A

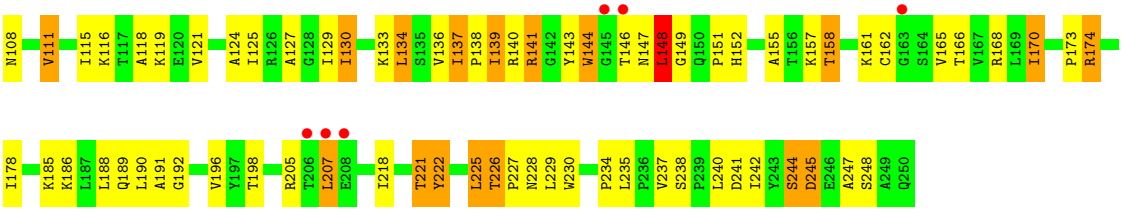
Chain s1:

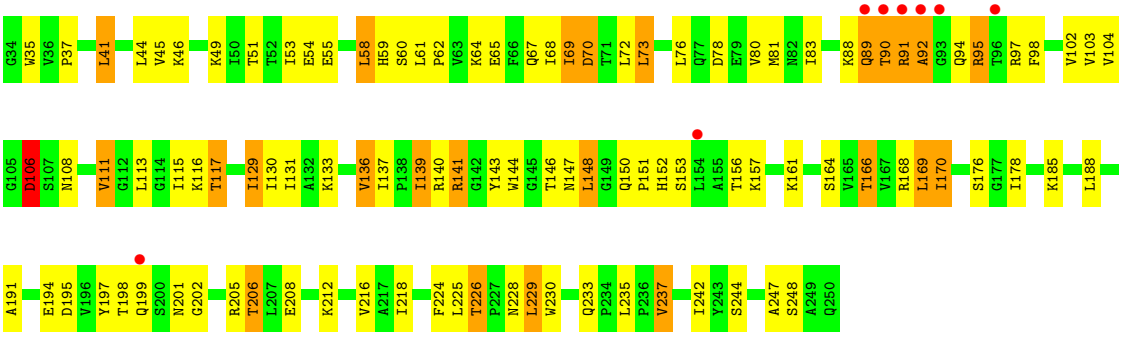


• Molecule 4: 40S ribosomal protein S2

Chain S2:

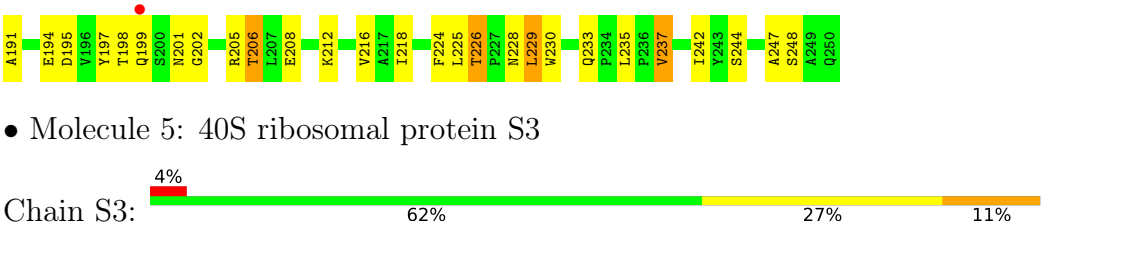


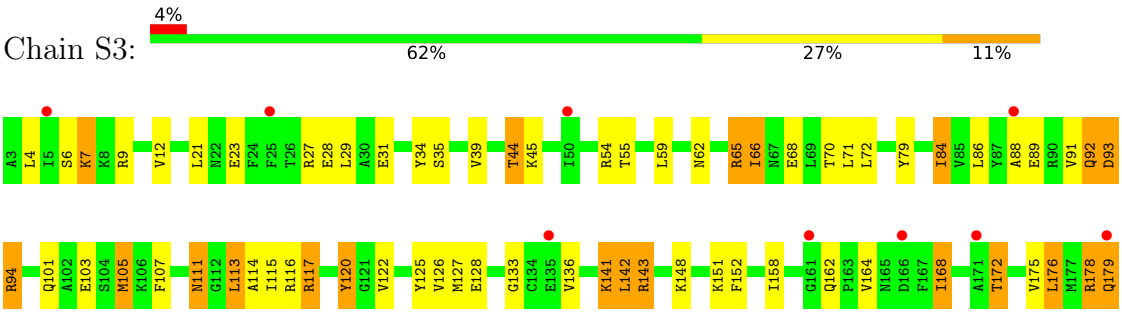




• Molecule 4: 40S ribosomal protein S2

Chain s2:



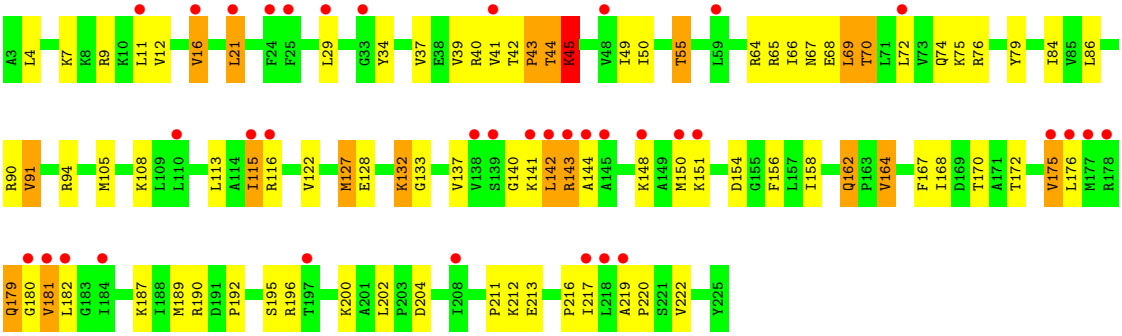


• Molecule 5: 40S ribosomal protein S3

Chain S3:

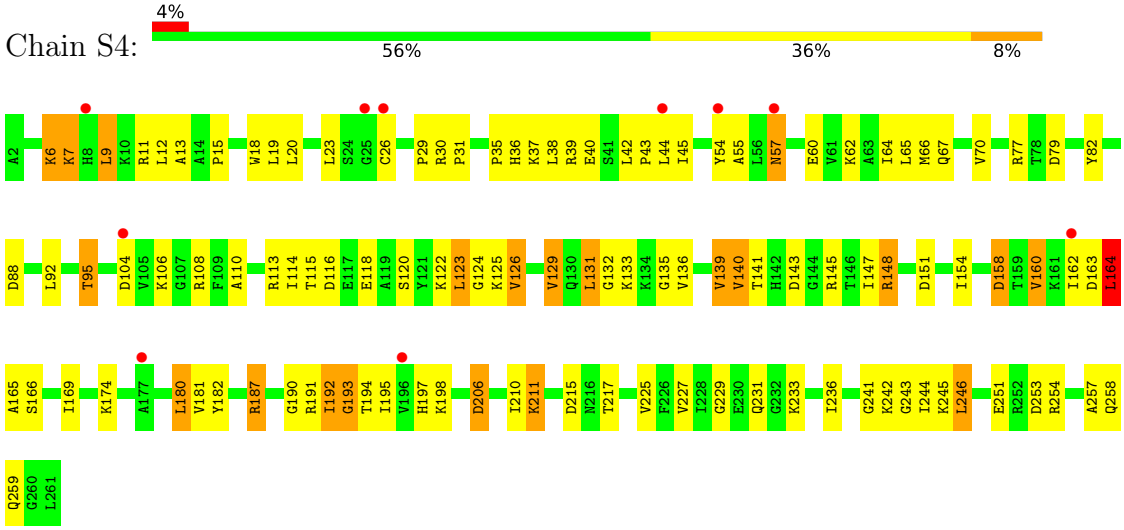
• Molecule 5: 40S ribosomal protein S3

Chain s3:



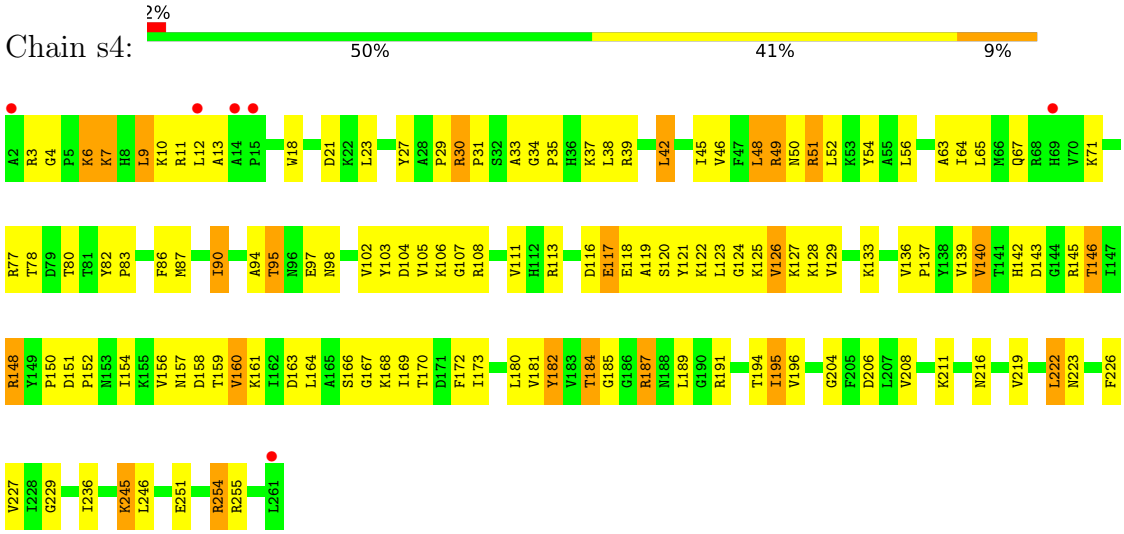
• Molecule 6: 40S ribosomal protein S4-A

Chain S4:



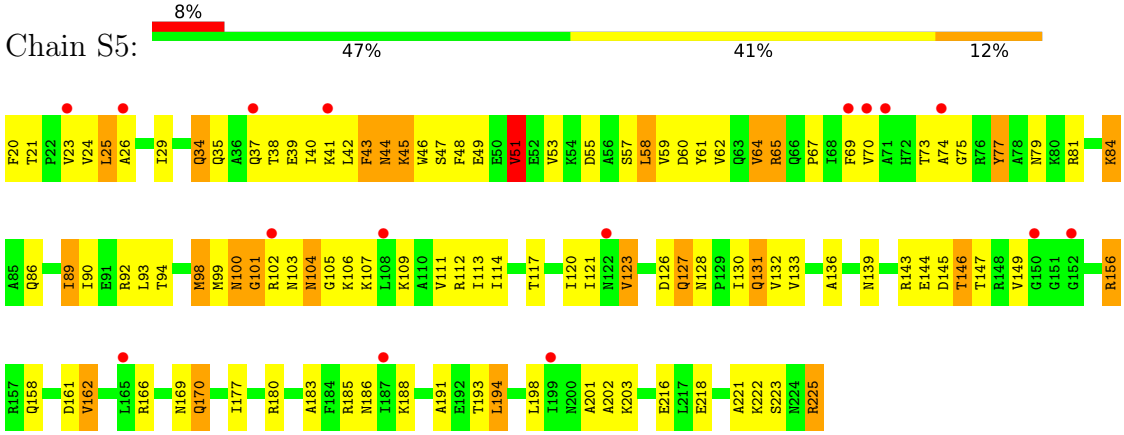
• Molecule 6: 40S ribosomal protein S4-A

Chain s4:



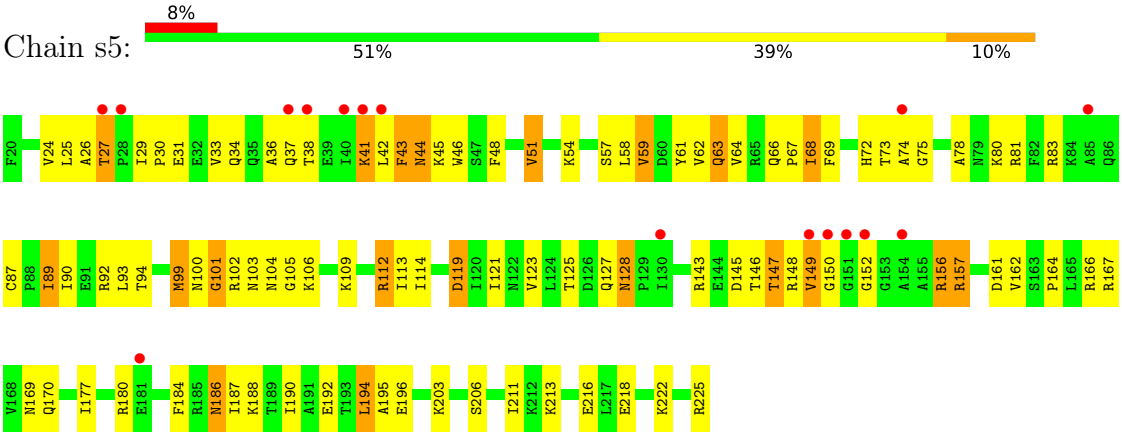
• Molecule 7: 40S ribosomal protein S5

Chain S5:



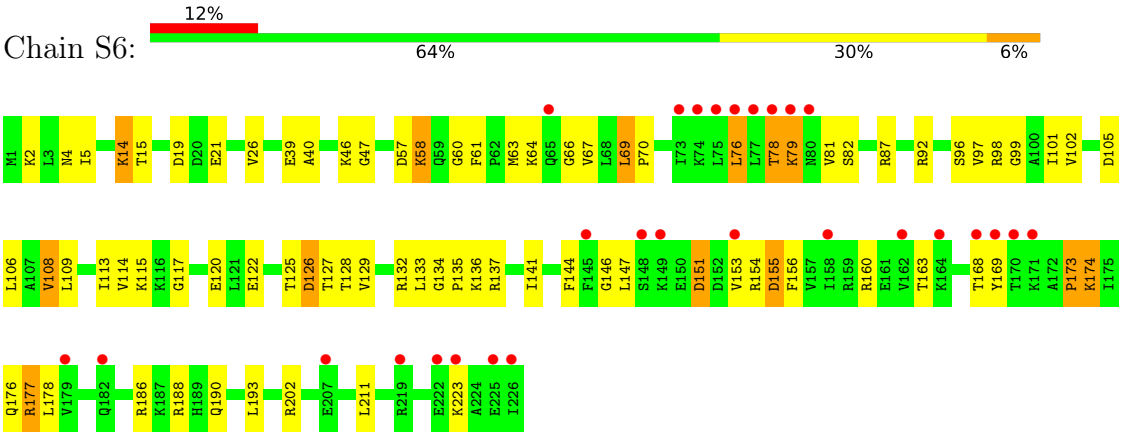
• Molecule 7: 40S ribosomal protein S5

Chain s5:



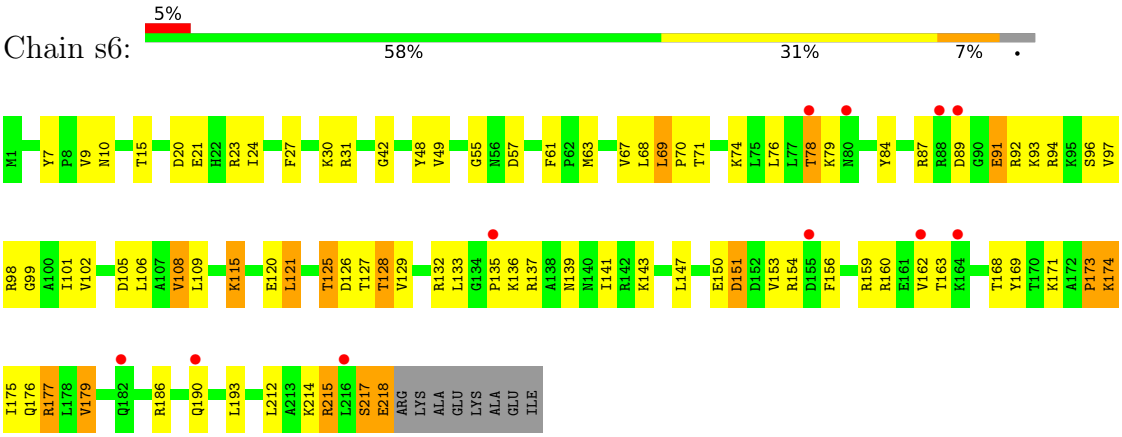
• Molecule 8: 40S ribosomal protein S6-A

Chain S6:



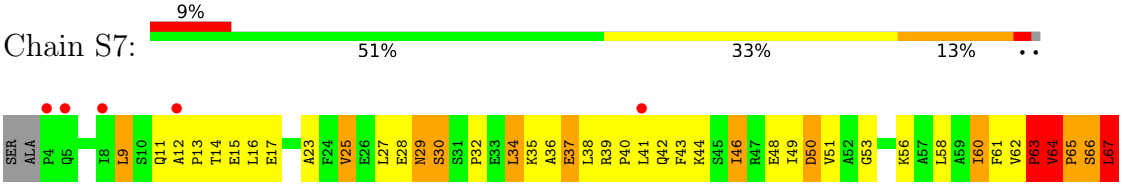
• Molecule 8: 40S ribosomal protein S6-A

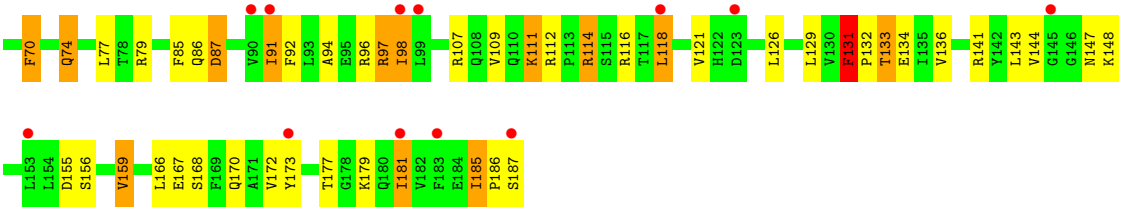
Chain s6:



• Molecule 9: 40S ribosomal protein S7-A

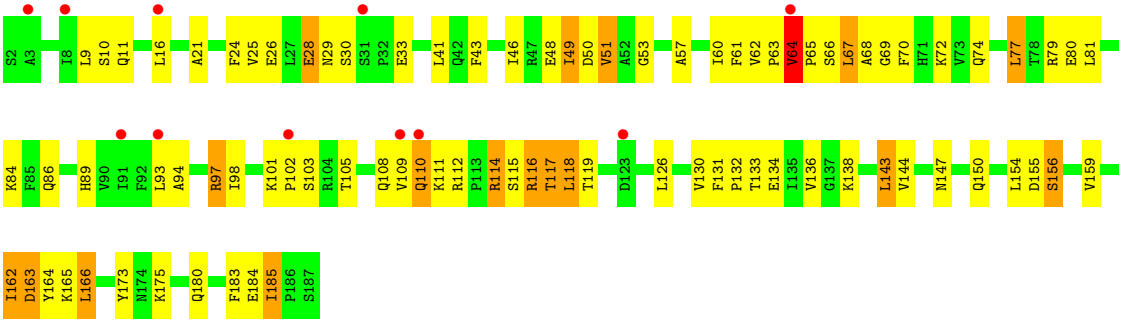
Chain S7:





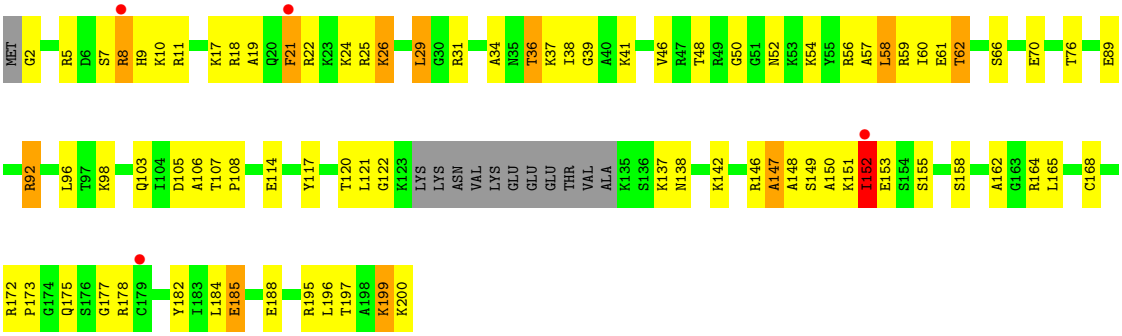
• Molecule 9: 40S ribosomal protein S7-A

Chain s7:



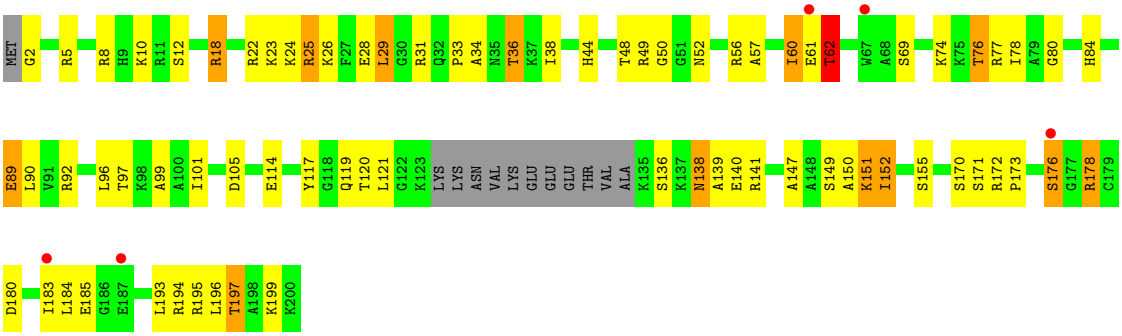
• Molecule 10: 40S ribosomal protein S8-A

Chain S8:



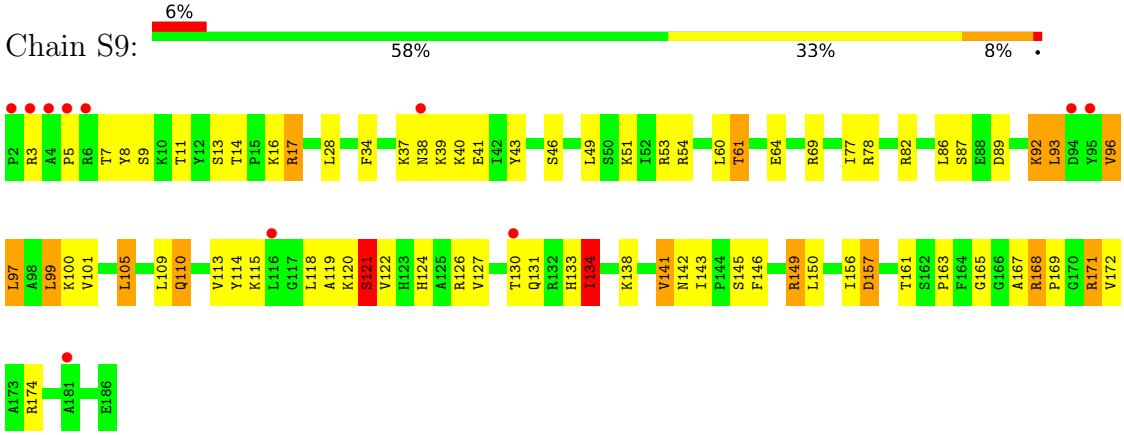
• Molecule 10: 40S ribosomal protein S8-A

Chain s8:



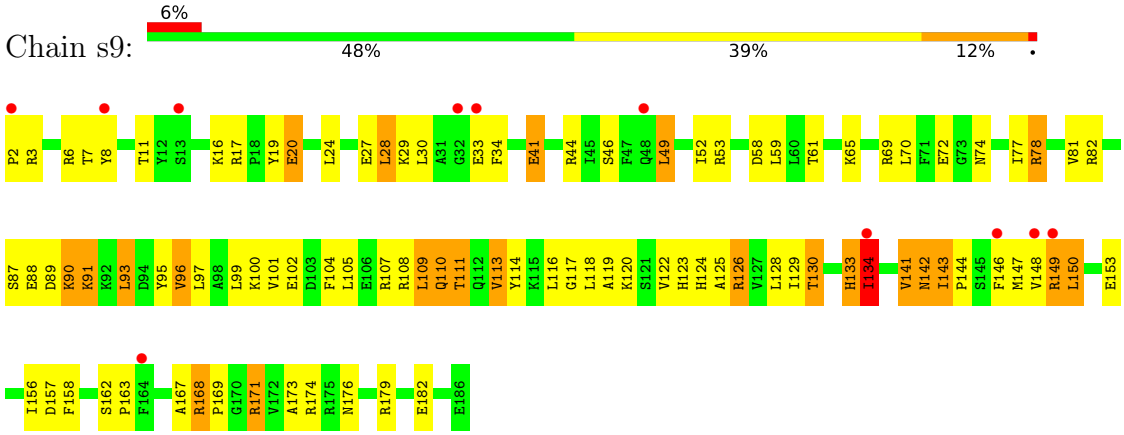
• Molecule 11: 40S ribosomal protein S9-A

Chain S9:



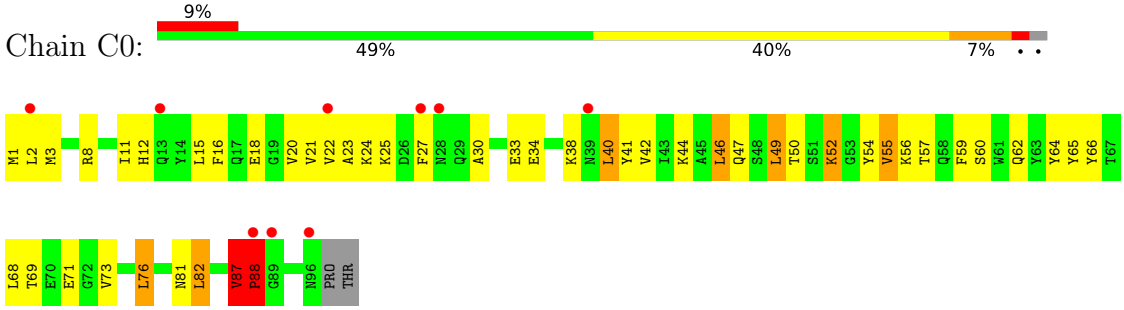
• Molecule 11: 40S ribosomal protein S9-A

Chain s9:



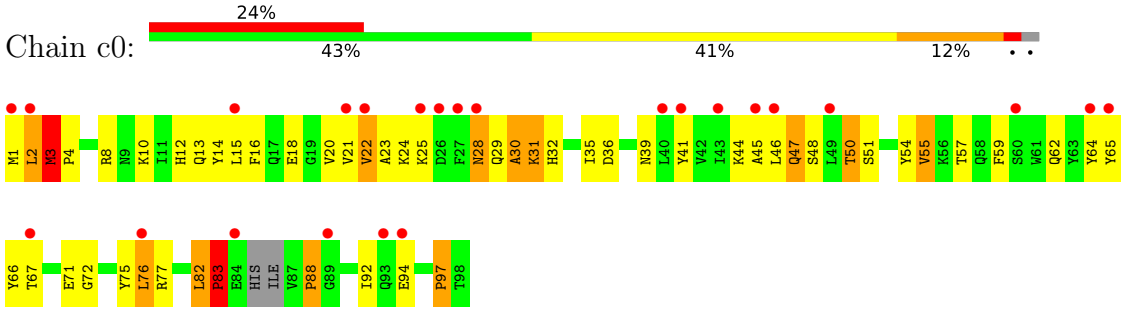
• Molecule 12: 40S ribosomal protein S10-A

Chain C0:



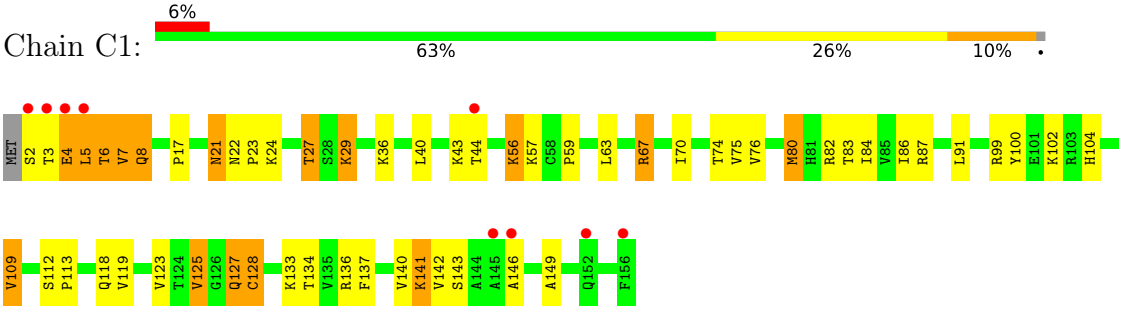
• Molecule 12: 40S ribosomal protein S10-A

Chain c0:



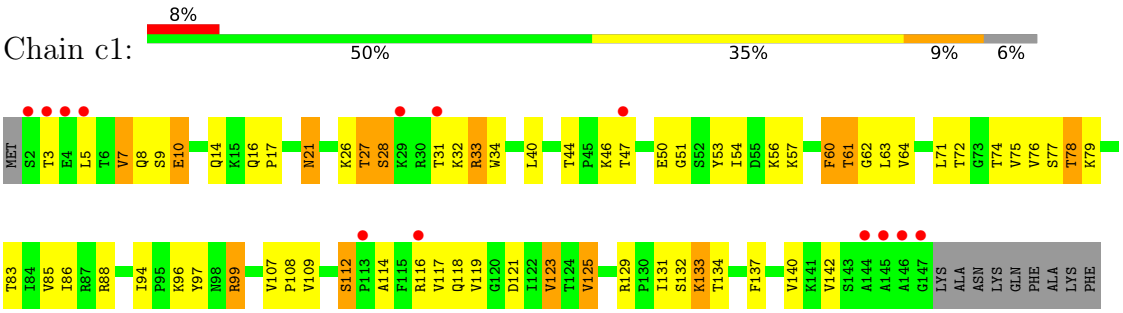
• Molecule 13: 40S ribosomal protein S11-A

Chain C1:



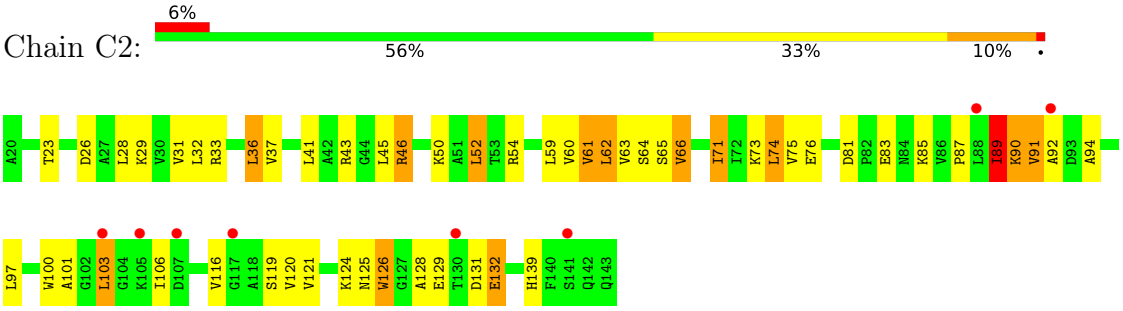
• Molecule 13: 40S ribosomal protein S11-A

Chain c1:



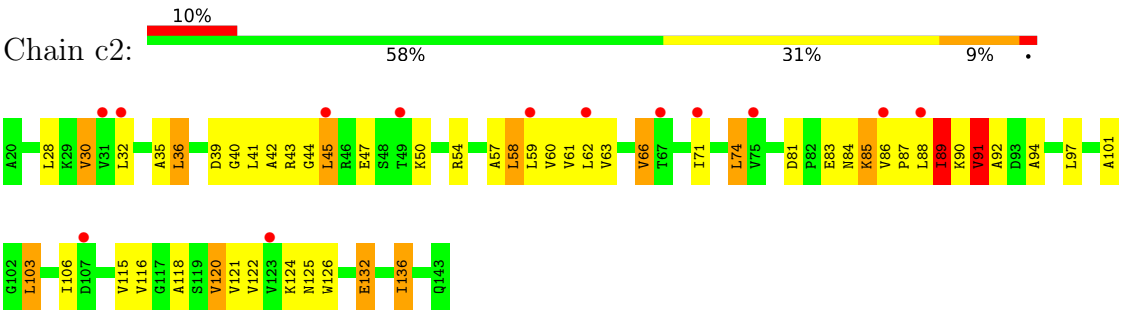
• Molecule 14: 40S ribosomal protein S12

Chain C2:



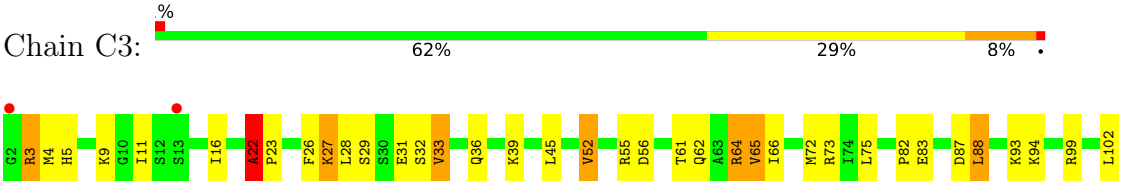
• Molecule 14: 40S ribosomal protein S12

Chain c2:

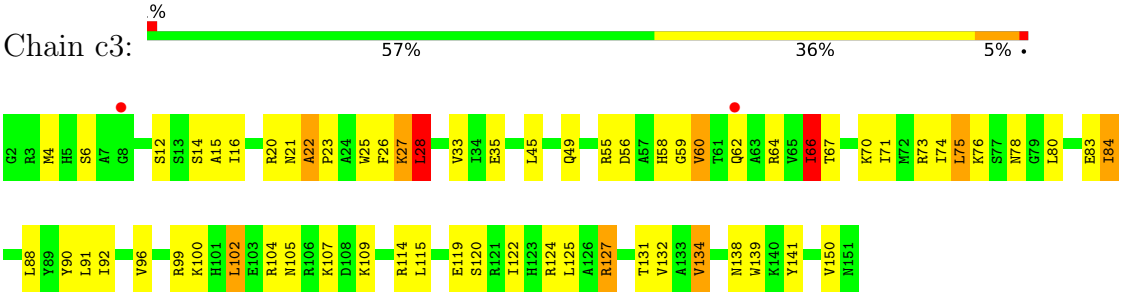


• Molecule 15: 40S ribosomal protein S13

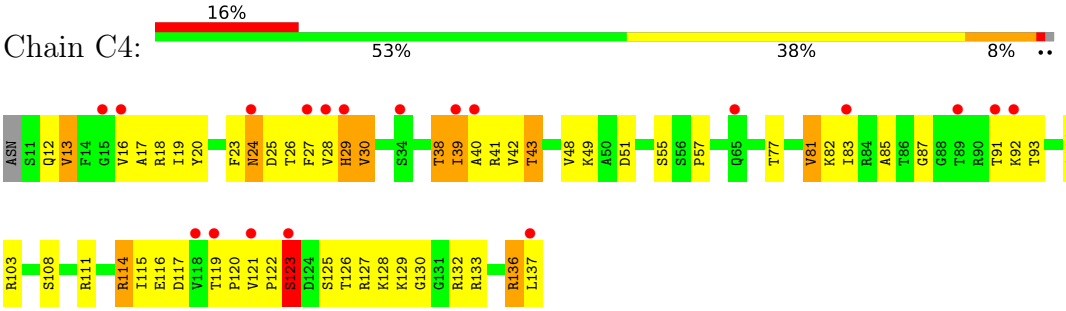
Chain C3:



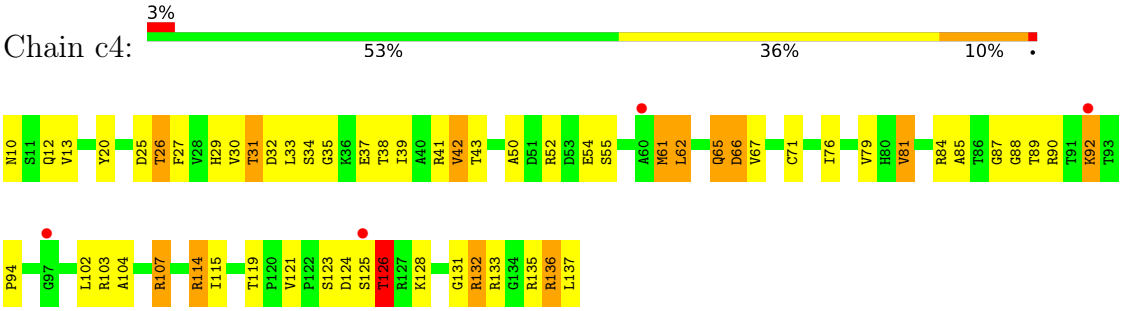
• Molecule 15: 40S ribosomal protein S13



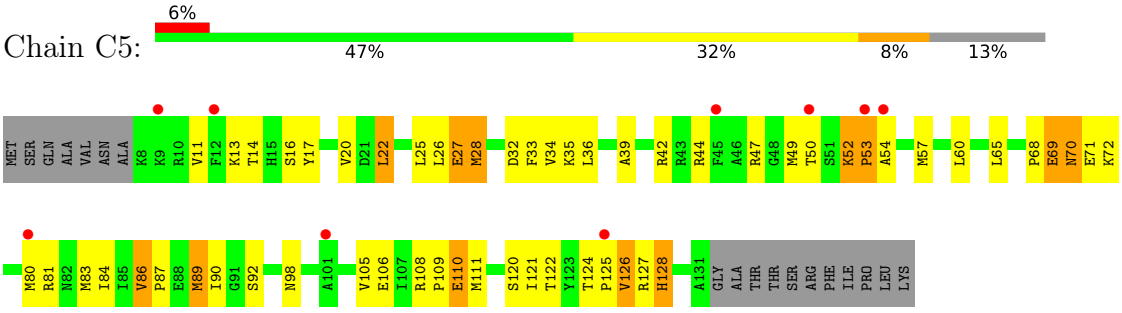
• Molecule 16: 40S ribosomal protein S14-B



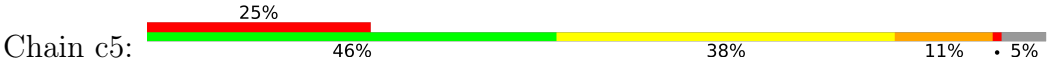
• Molecule 16: 40S ribosomal protein S14-B

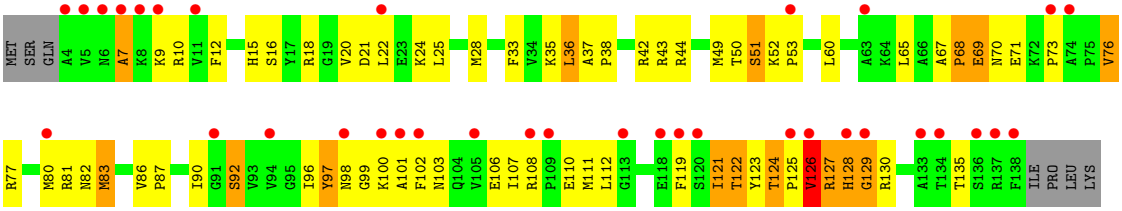


• Molecule 17: 40S ribosomal protein S15



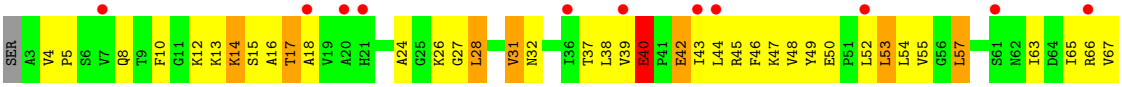
• Molecule 17: 40S ribosomal protein S15

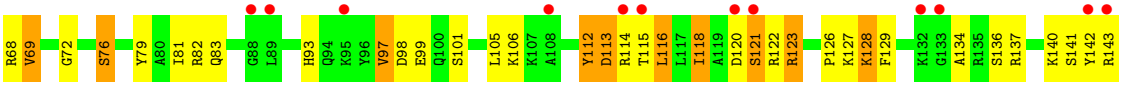




• Molecule 18: 40S ribosomal protein S16-A

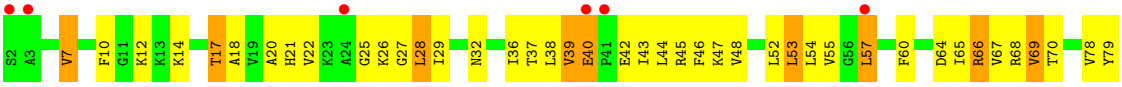
Chain C6:

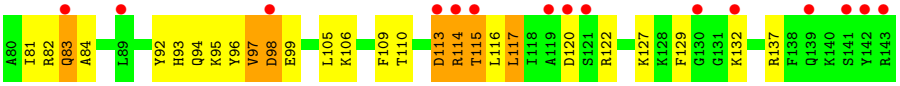




• Molecule 18: 40S ribosomal protein S16-A

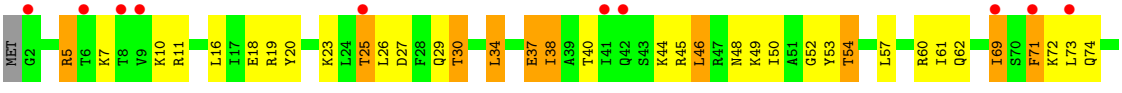
Chain c6:

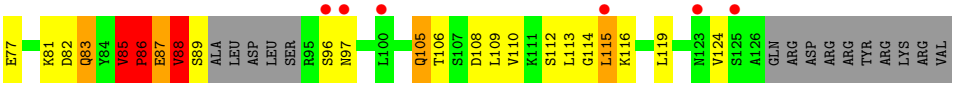




• Molecule 19: 40S ribosomal protein S17-A

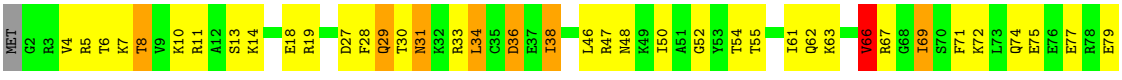
Chain C7:

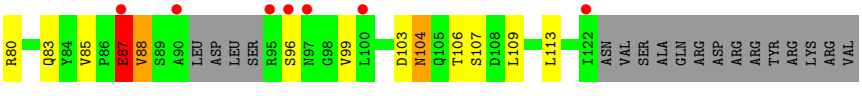




• Molecule 19: 40S ribosomal protein S17-A

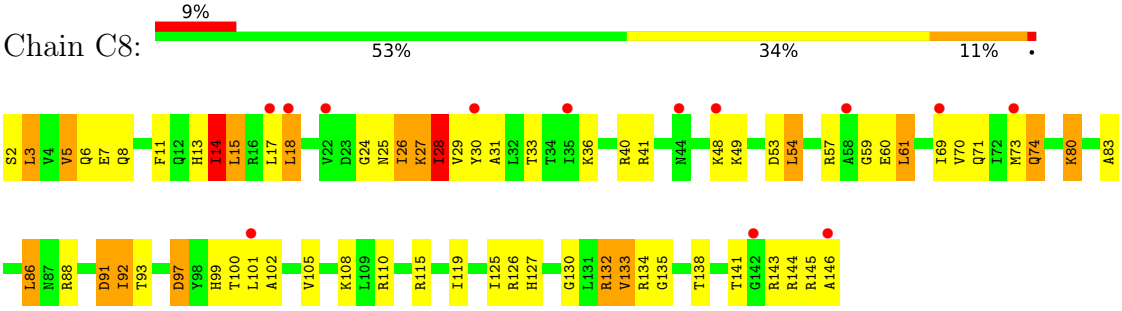
Chain c7:





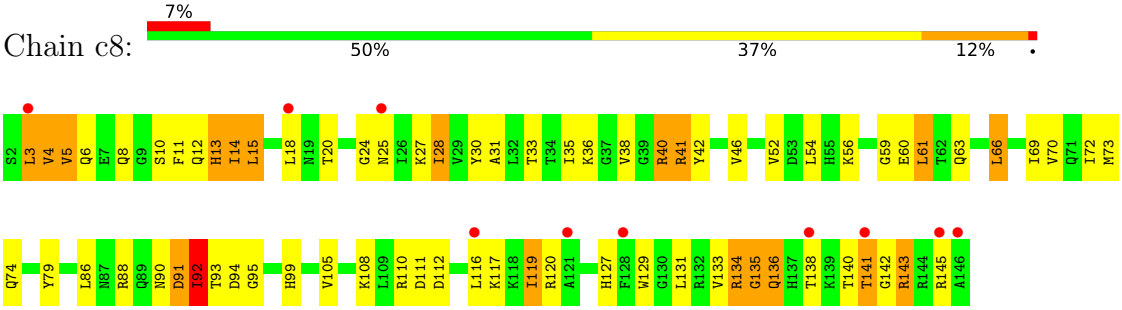
• Molecule 20: 40S ribosomal protein S18-A

Chain C8:



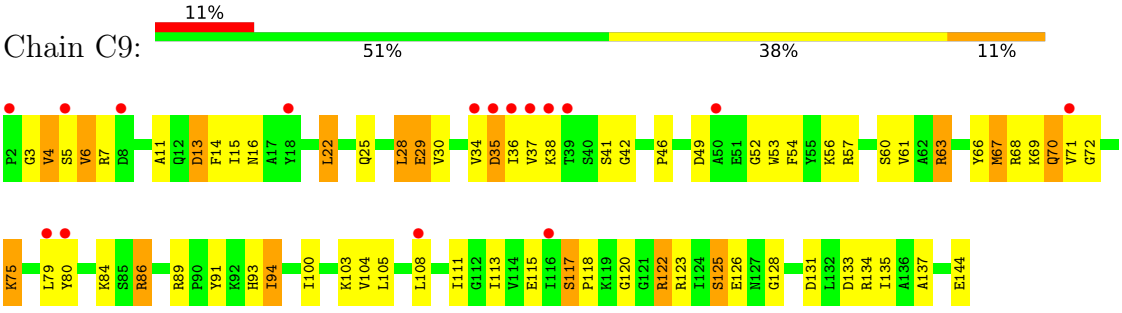
• Molecule 20: 40S ribosomal protein S18-A

Chain c8:



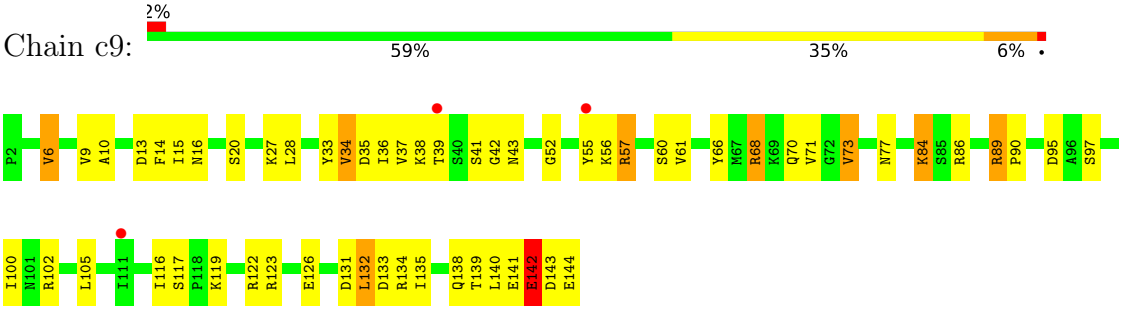
• Molecule 21: 40S ribosomal protein S19-A

Chain C9:



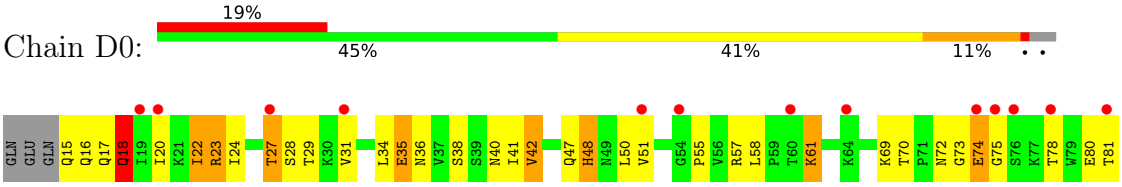
• Molecule 21: 40S ribosomal protein S19-A

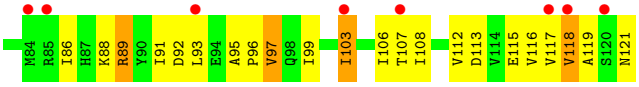
Chain c9:



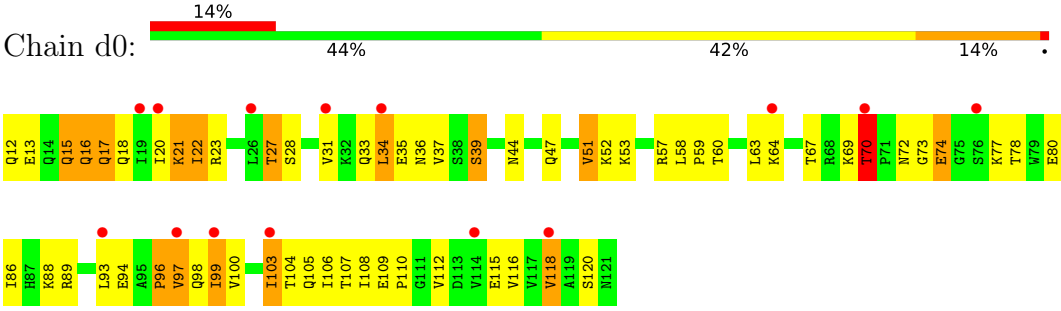
• Molecule 22: 40S ribosomal protein S20

Chain D0:

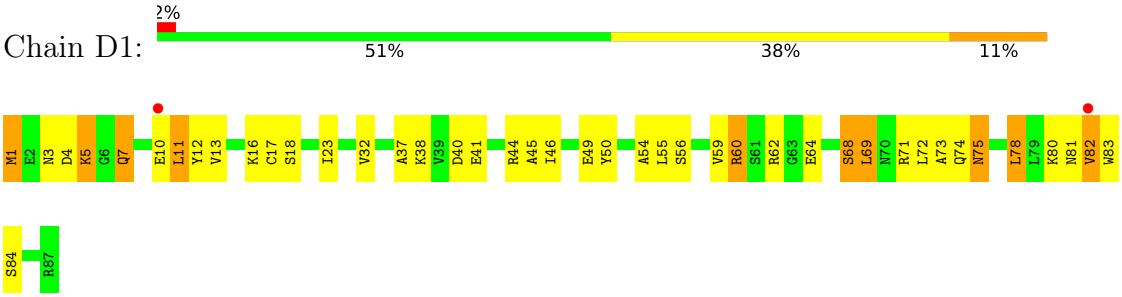




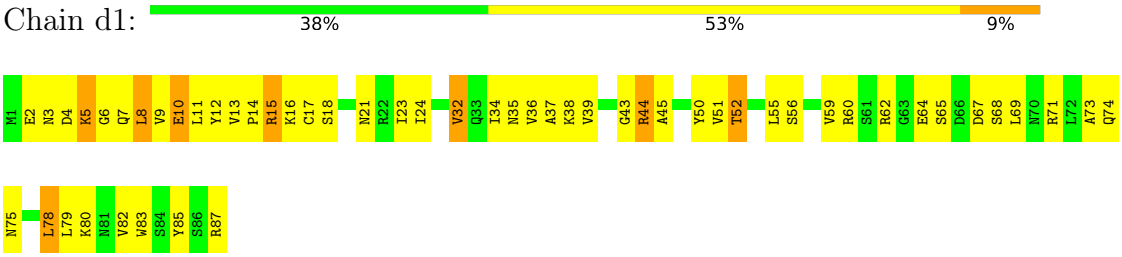
• Molecule 22: 40S ribosomal protein S20



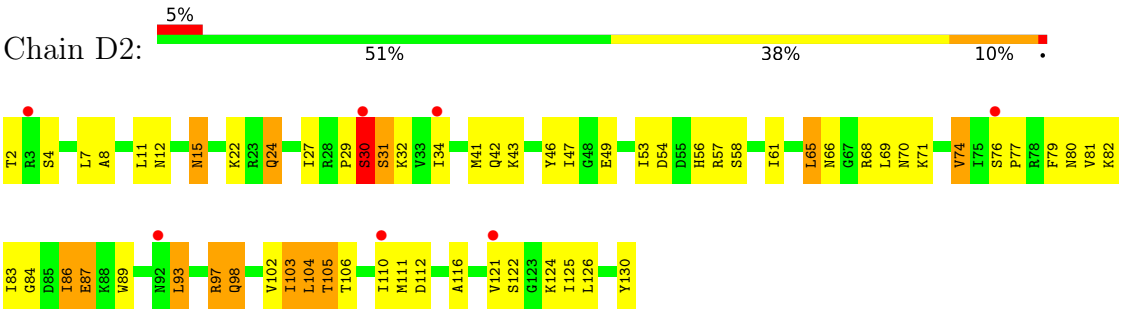
• Molecule 23: 40S ribosomal protein S21-A



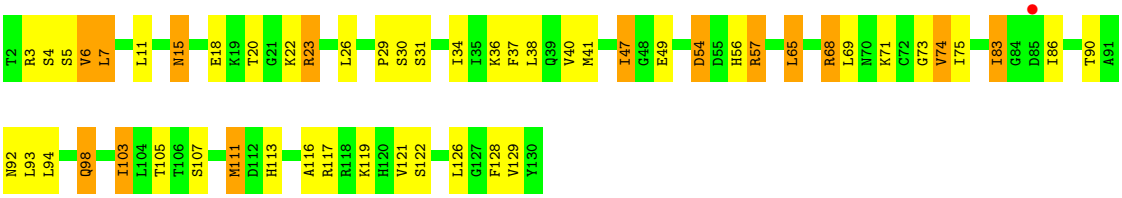
• Molecule 23: 40S ribosomal protein S21-A

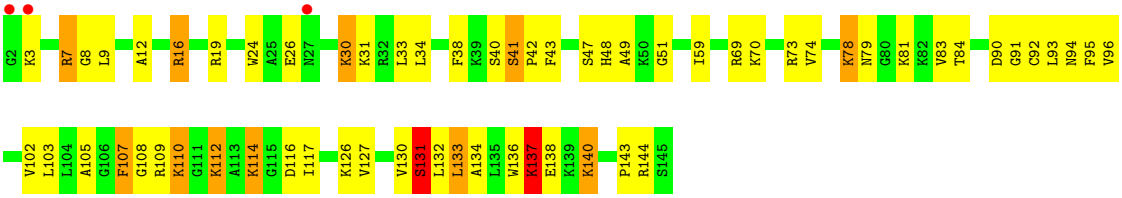


• Molecule 24: 40S ribosomal protein S22-A



• Molecule 24: 40S ribosomal protein S22-A



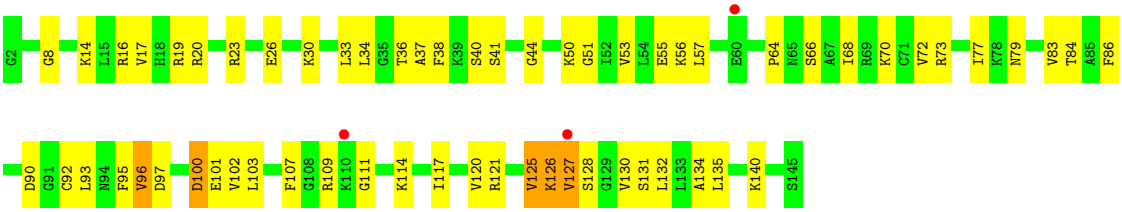


• Molecule 25: 40S ribosomal protein S23-A

Chain D3:

• Molecule 25: 40S ribosomal protein S23-A

Chain d3:

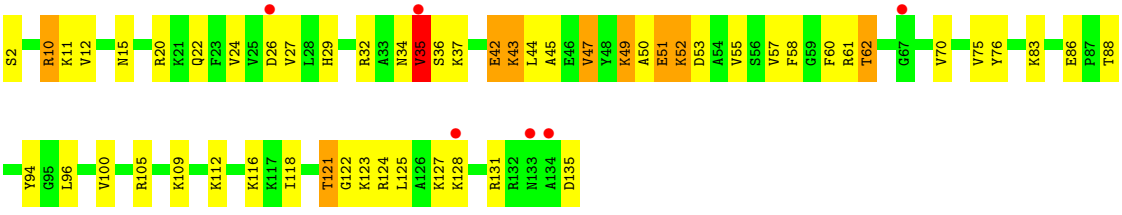


• Molecule 26: 40S ribosomal protein S24-A

Chain D4:

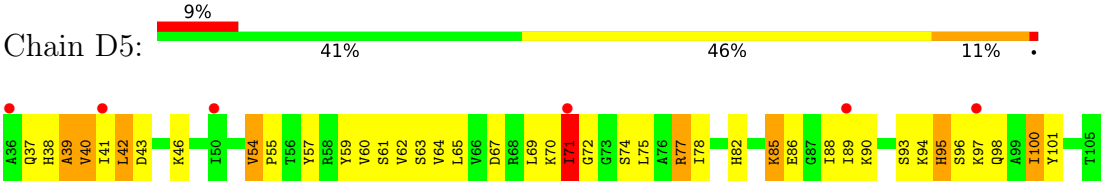
• Molecule 26: 40S ribosomal protein S24-A

Chain d4:



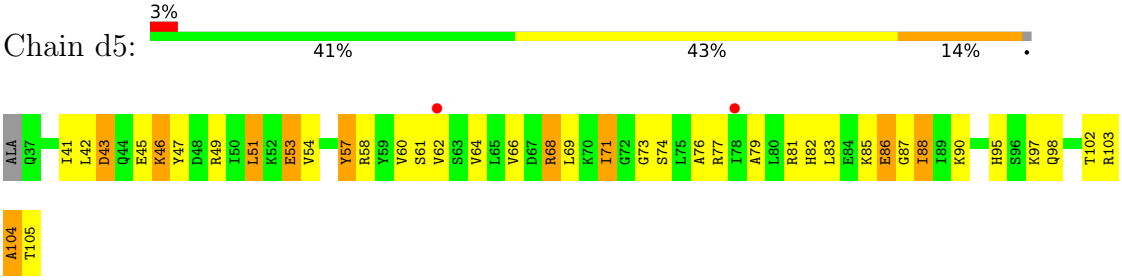
• Molecule 27: 40S ribosomal protein S25-A

Chain D5:



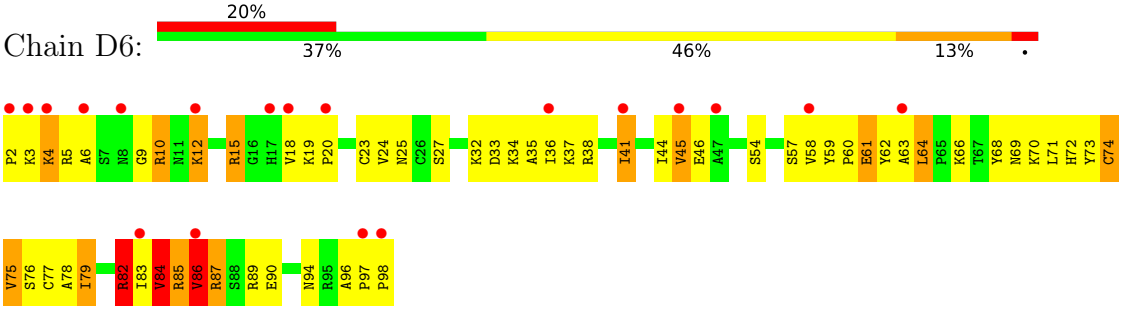
• Molecule 27: 40S ribosomal protein S25-A

Chain d5:



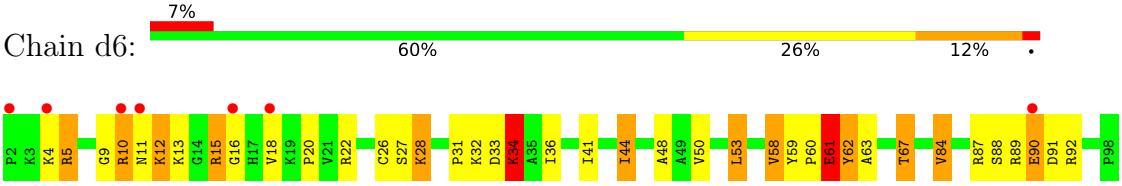
• Molecule 28: 40S ribosomal protein S26-B

Chain D6:



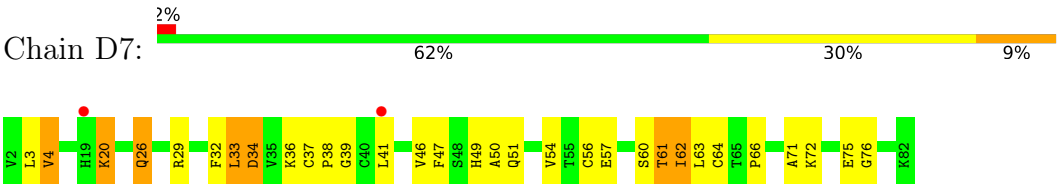
• Molecule 28: 40S ribosomal protein S26-B

Chain d6:



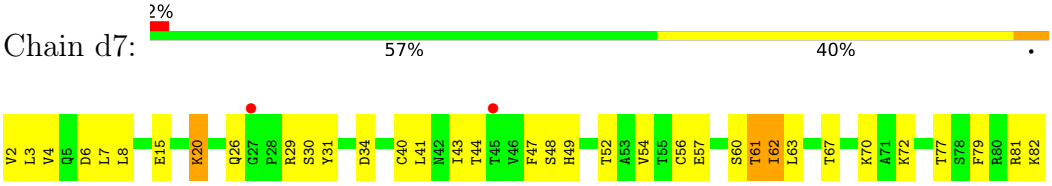
• Molecule 29: 40S ribosomal protein S27-A

Chain D7:



• Molecule 29: 40S ribosomal protein S27-A

Chain d7:

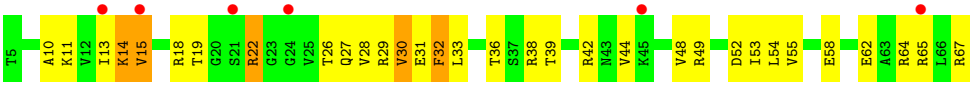


• Molecule 30: 40S ribosomal protein S28-A

Chain D8:

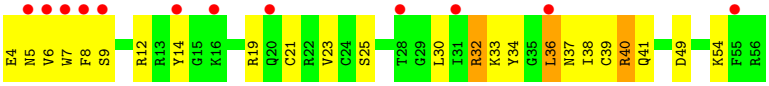
• Molecule 30: 40S ribosomal protein S28-A

Chain d8:



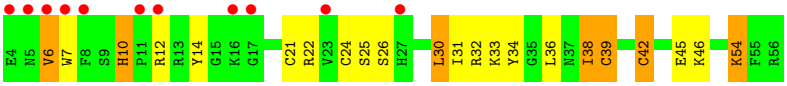
• Molecule 31: 40S ribosomal protein S29-A

Chain D9:



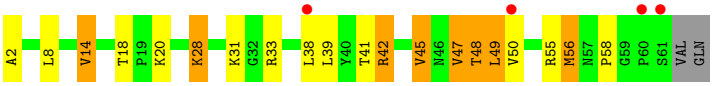
• Molecule 31: 40S ribosomal protein S29-A

Chain d9:



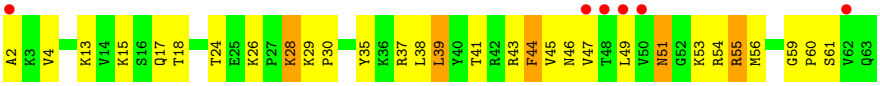
• Molecule 32: 40S ribosomal protein S30-A

Chain E0:



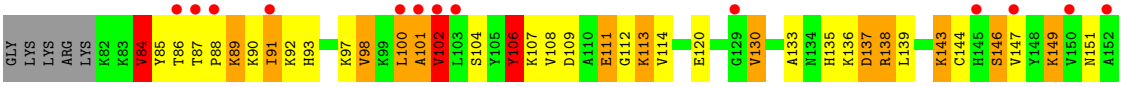
• Molecule 32: 40S ribosomal protein S30-A

Chain e0:



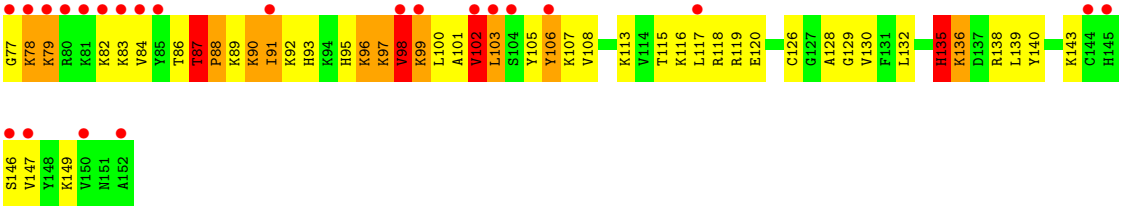
• Molecule 33: Ubiquitin-40S ribosomal protein S31

Chain E1:



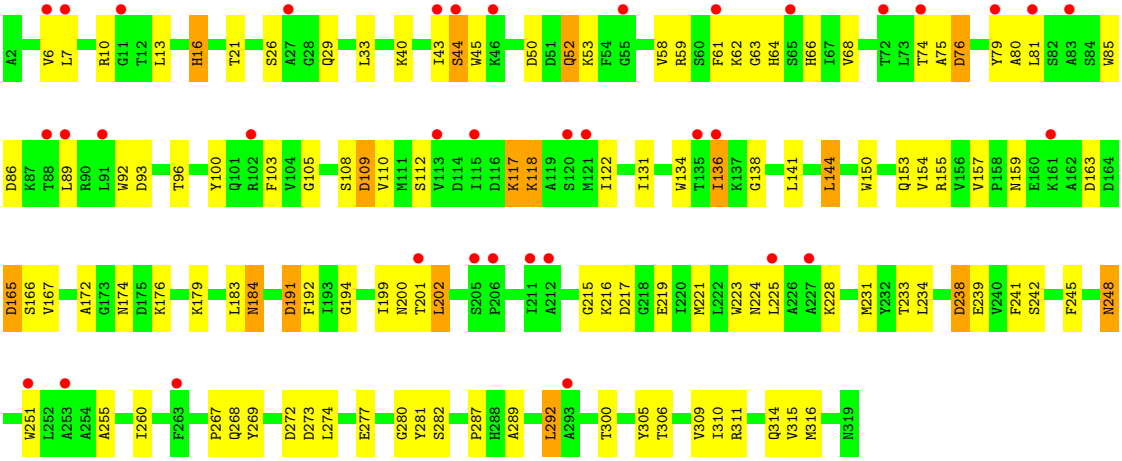
• Molecule 33: Ubiquitin-40S ribosomal protein S31

Chain e1:



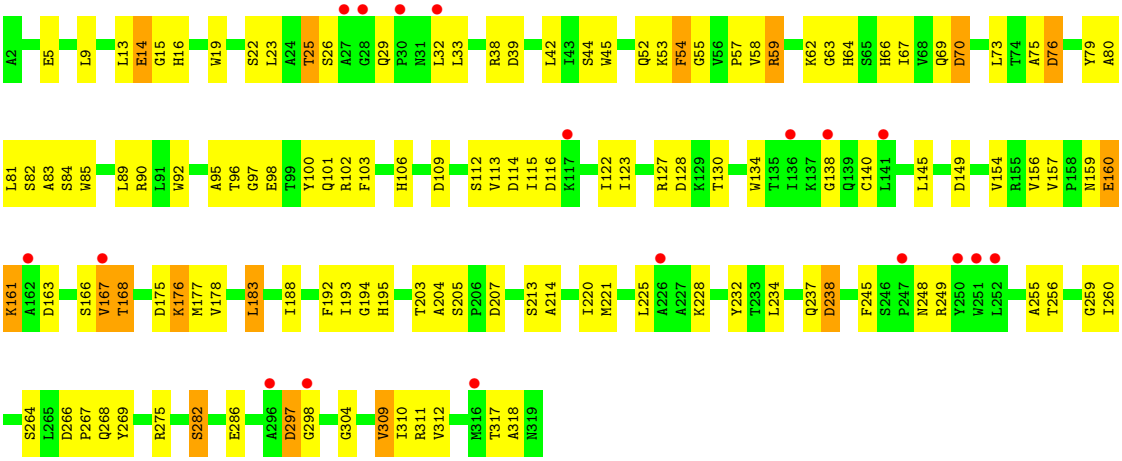
• Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

Chain SR:



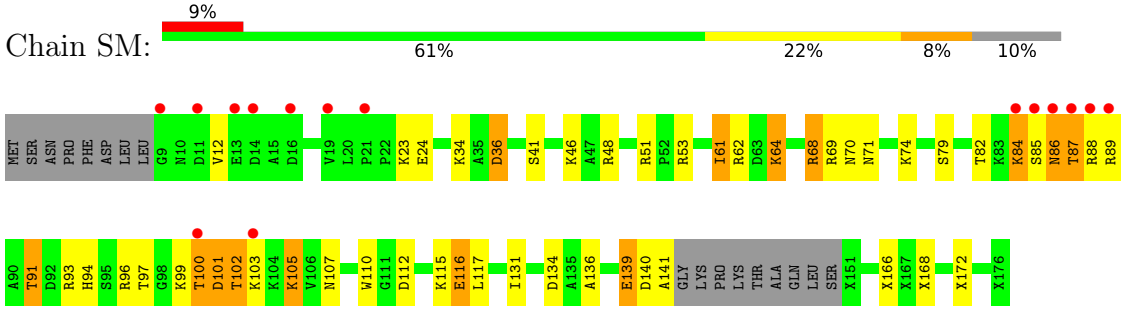
• Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

Chain sR:



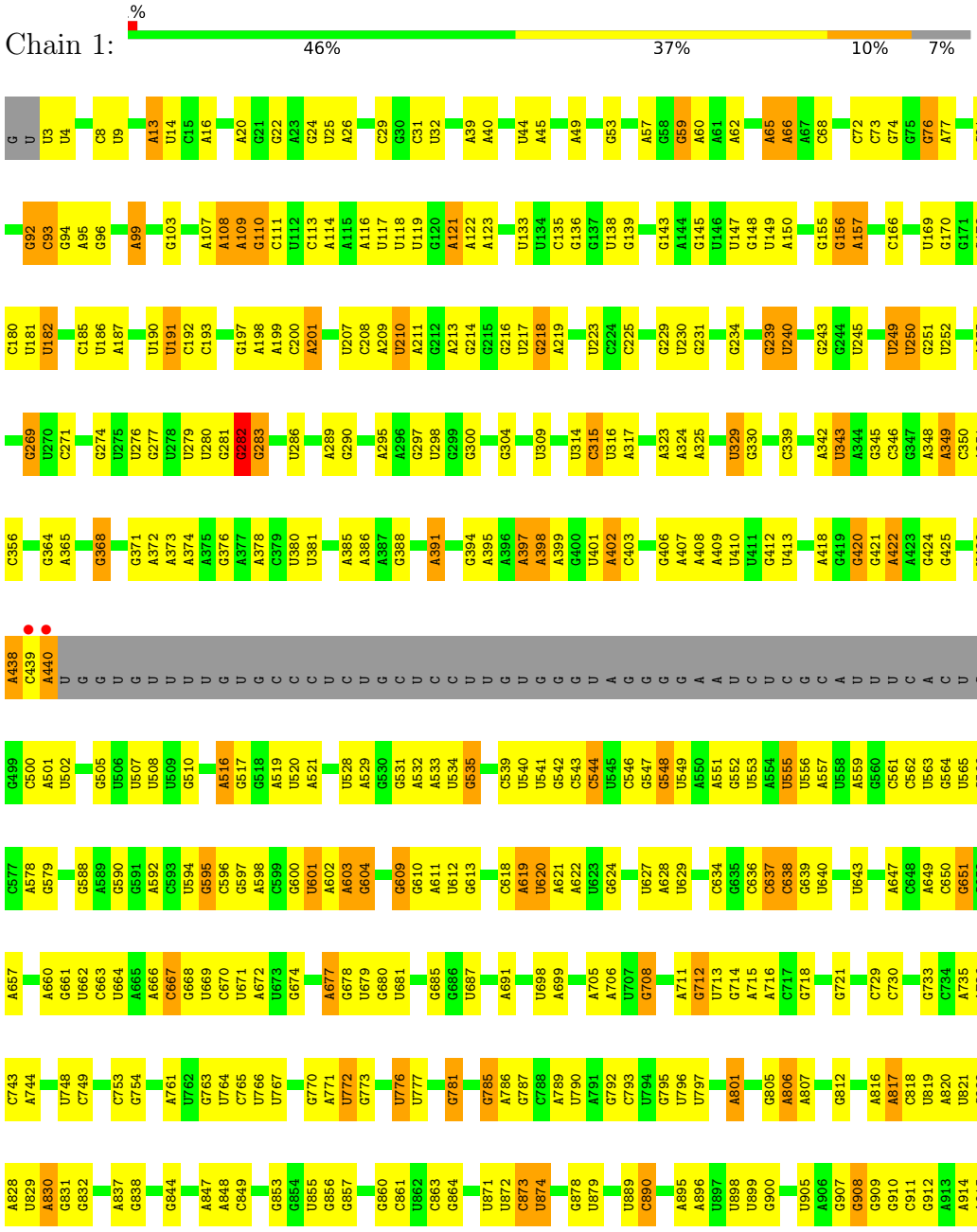
• Molecule 35: Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1

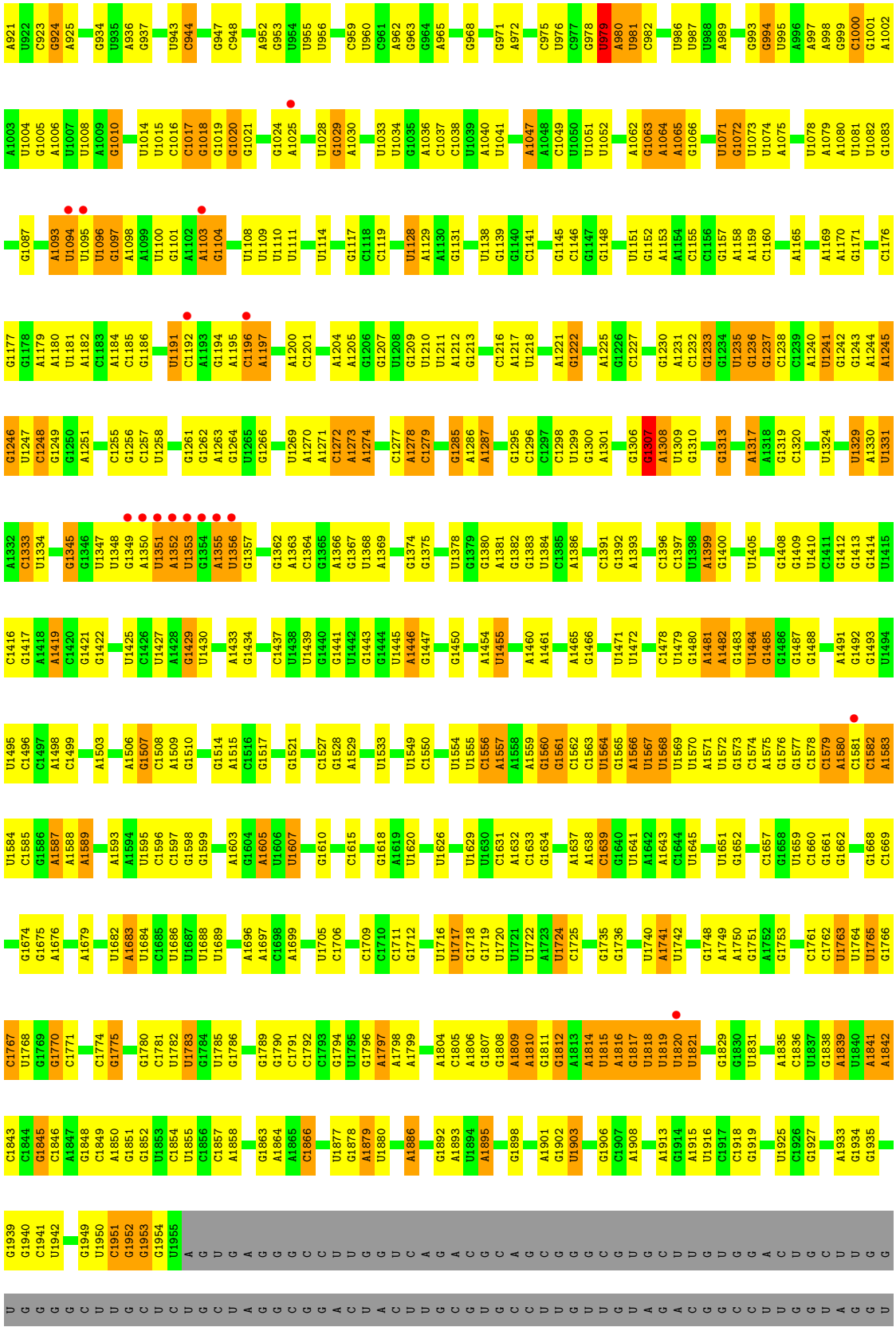
Chain SM:

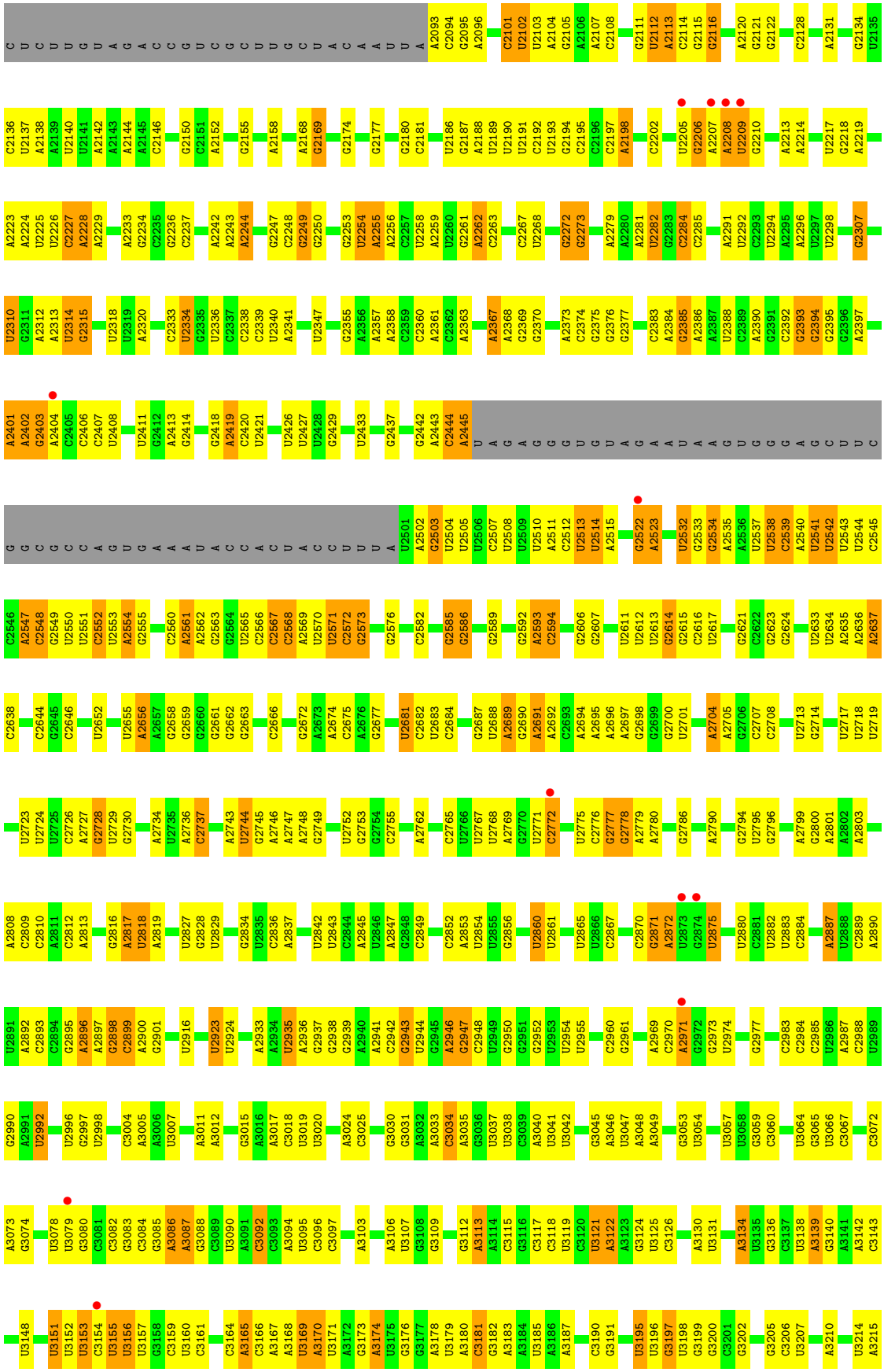


• Molecule 36: 25S ribosomal RNA

Chain 1:

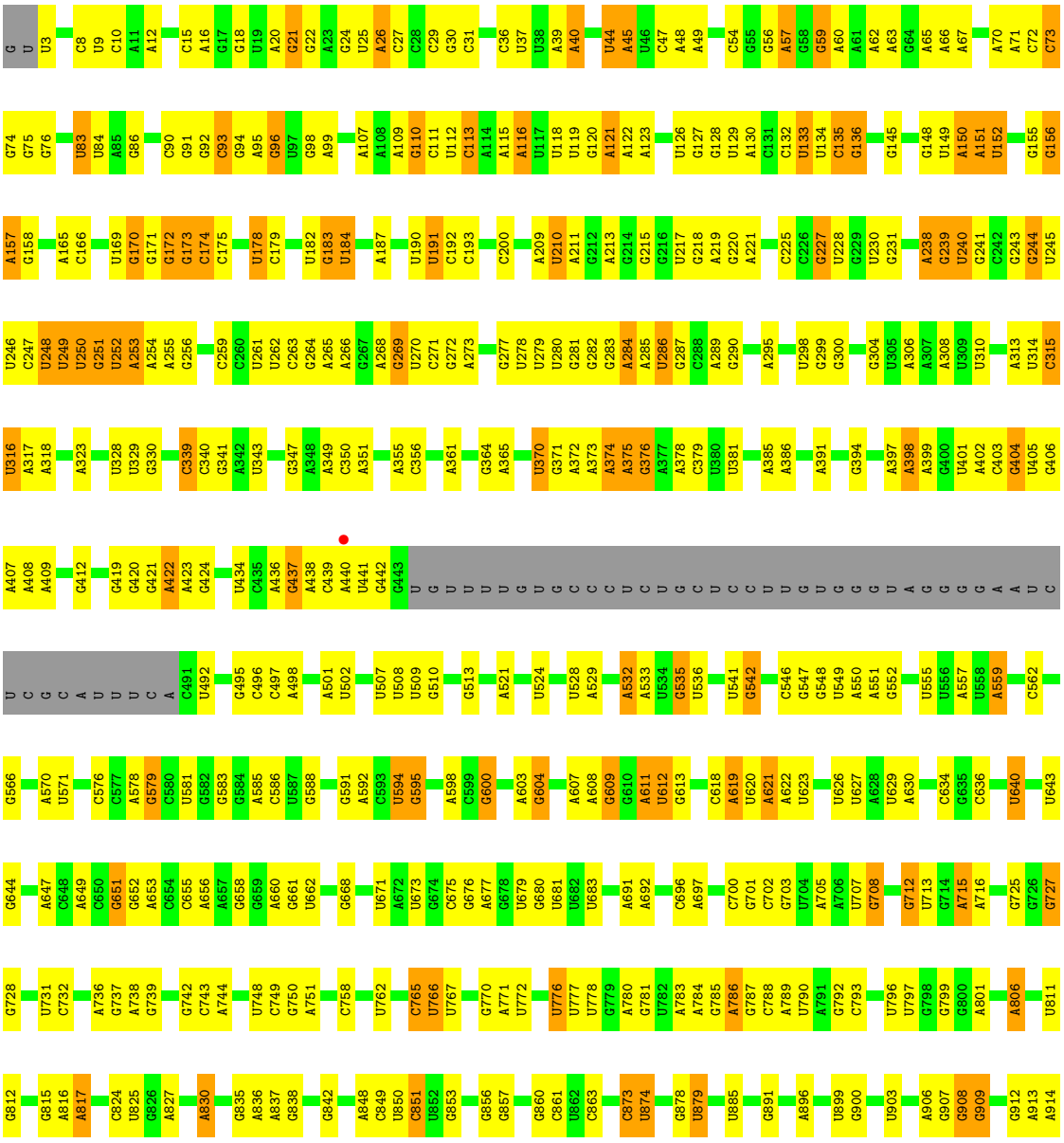


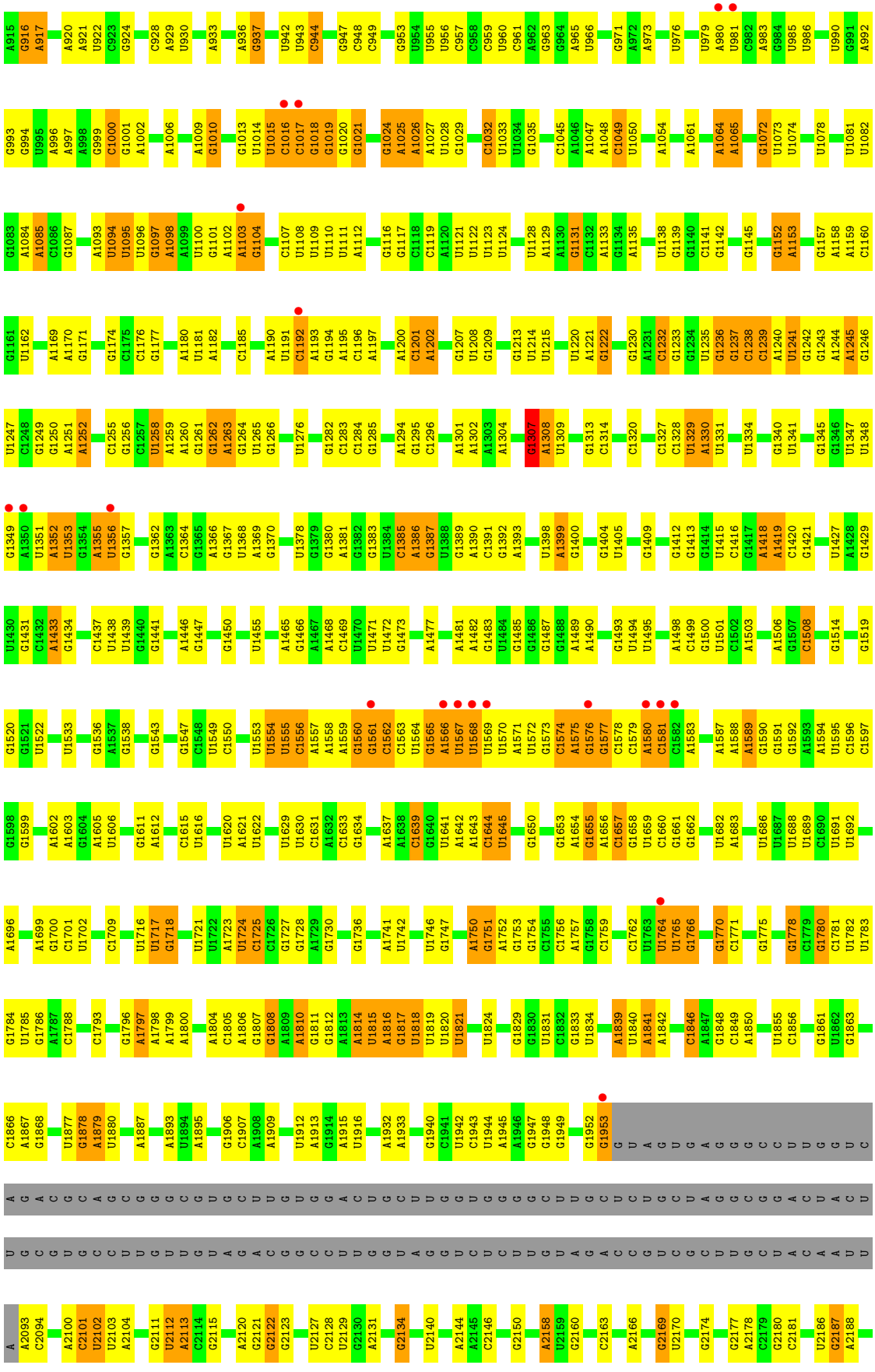


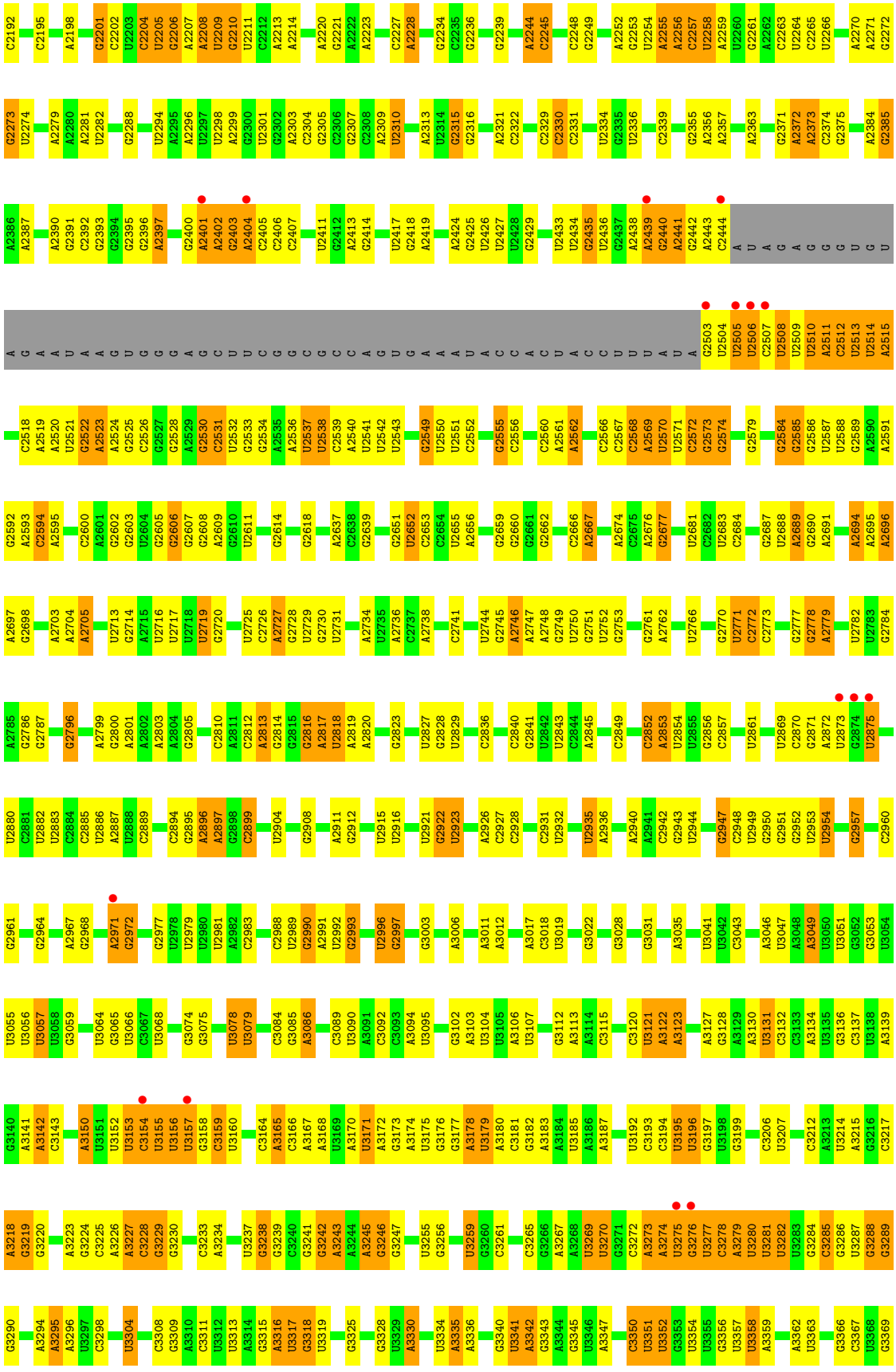


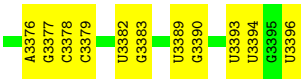
• Molecule 36: 25S ribosomal RNA

Chain 5:



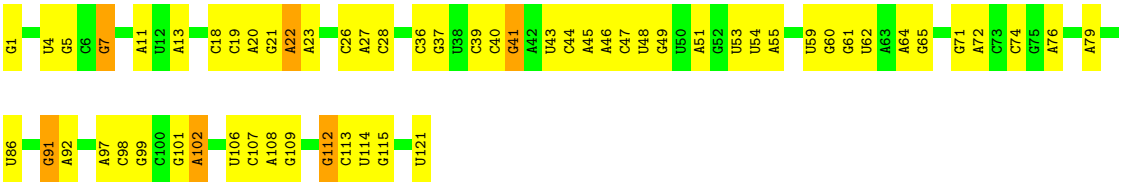






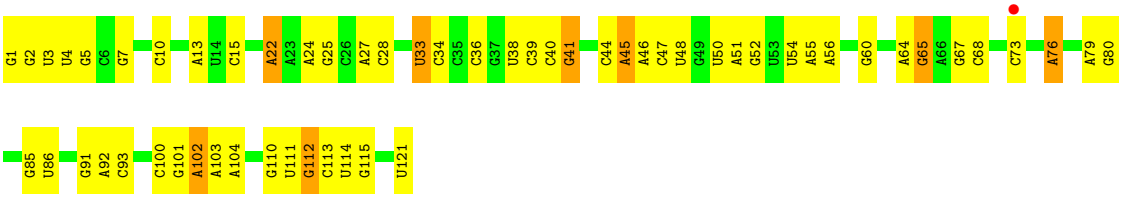
• Molecule 37: 5S ribosomal RNA

Chain 3:



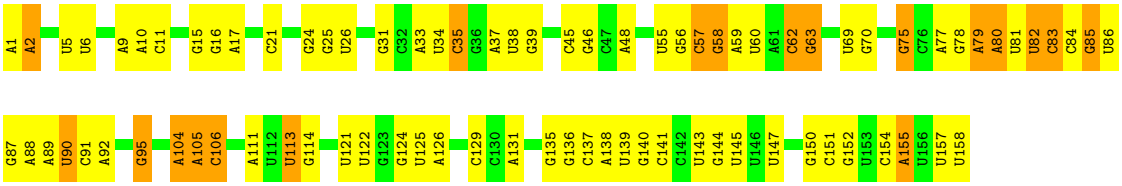
• Molecule 37: 5S ribosomal RNA

Chain 7:



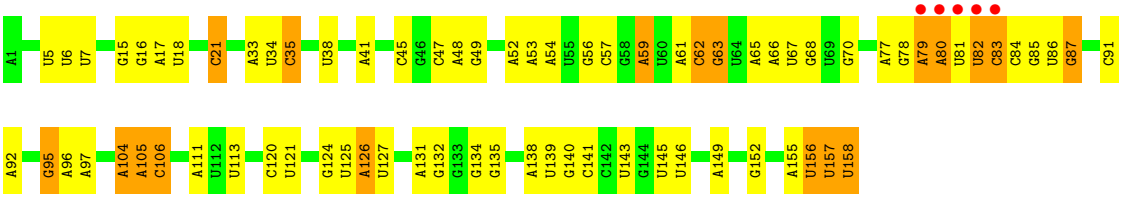
• Molecule 38: 5.8S ribosomal RNA

Chain 4:



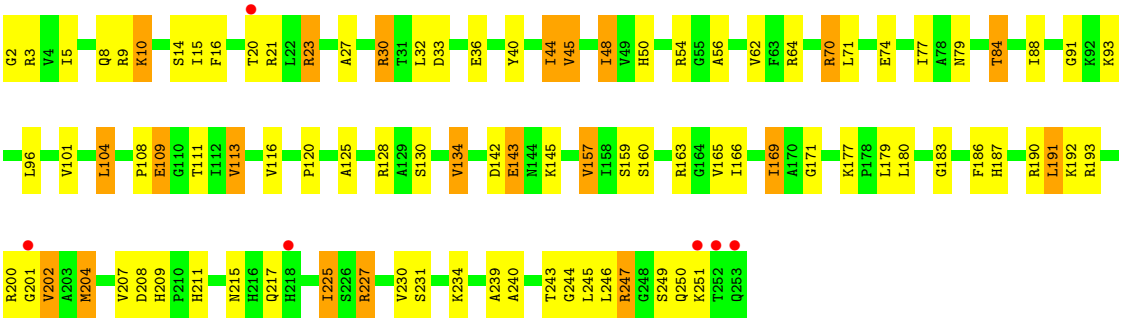
• Molecule 38: 5.8S ribosomal RNA

Chain 8:



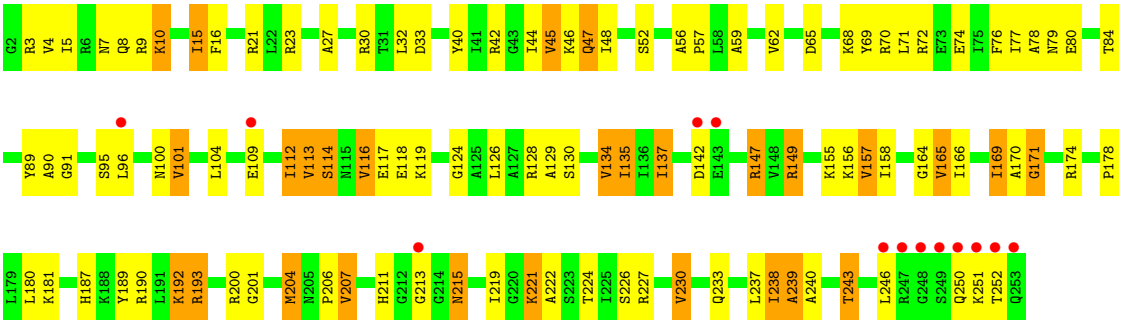
• Molecule 39: 60S ribosomal protein L2-A

Chain L2:



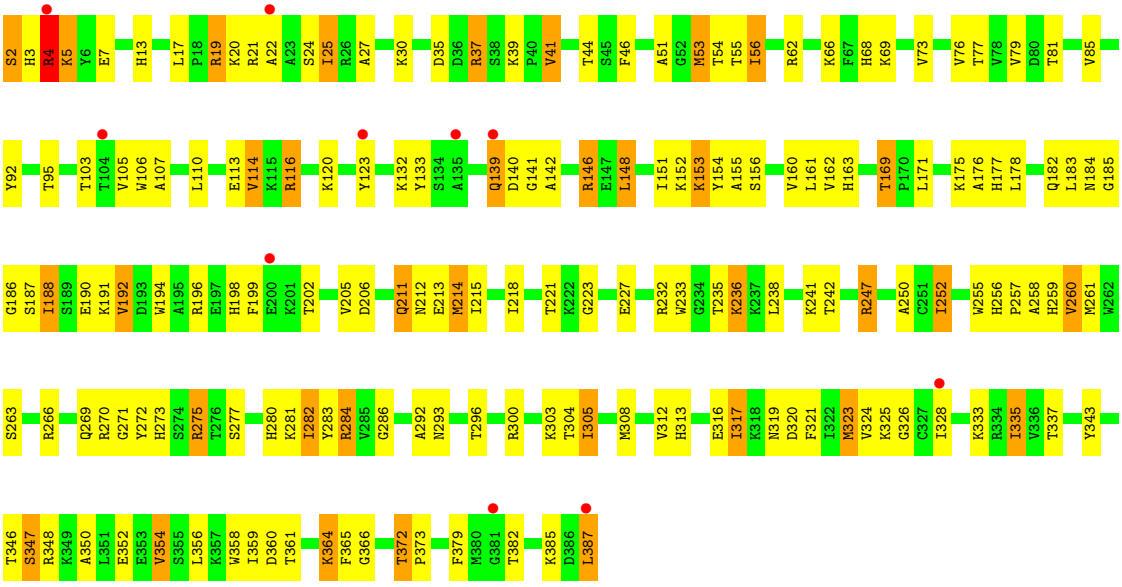
• Molecule 39: 60S ribosomal protein L2-A

Chain l2:



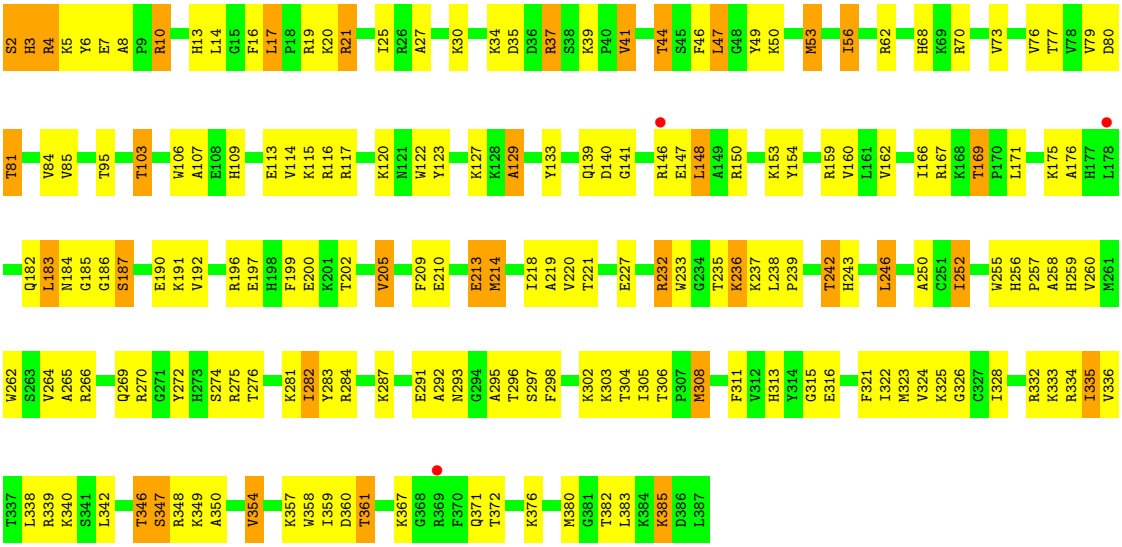
• Molecule 40: 60S ribosomal protein L3

Chain L3:



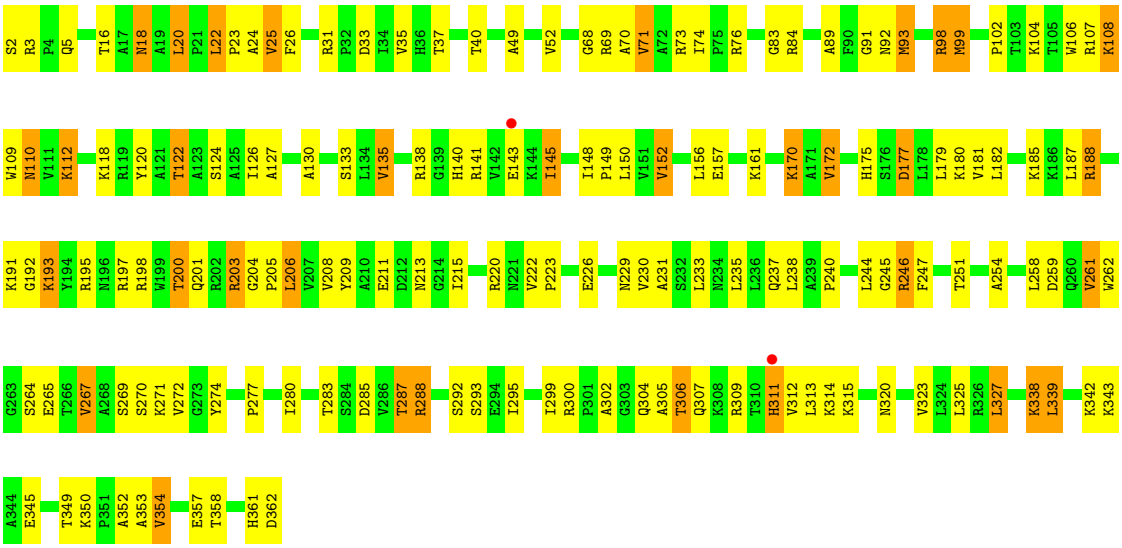
• Molecule 40: 60S ribosomal protein L3

Chain l3:



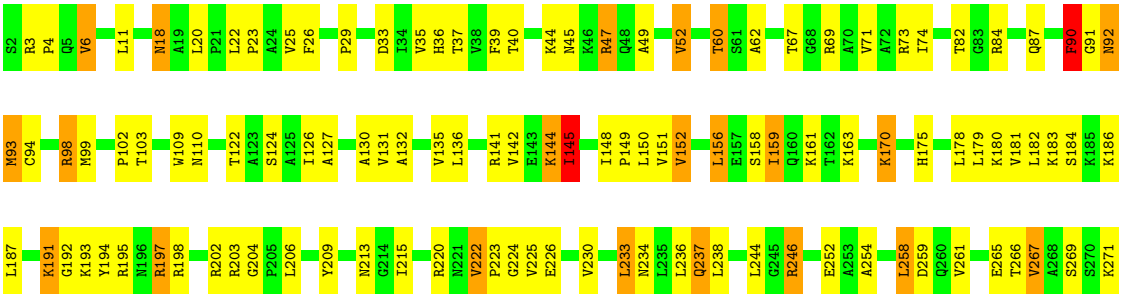
• Molecule 41: 60S ribosomal protein L4-A

Chain L4:

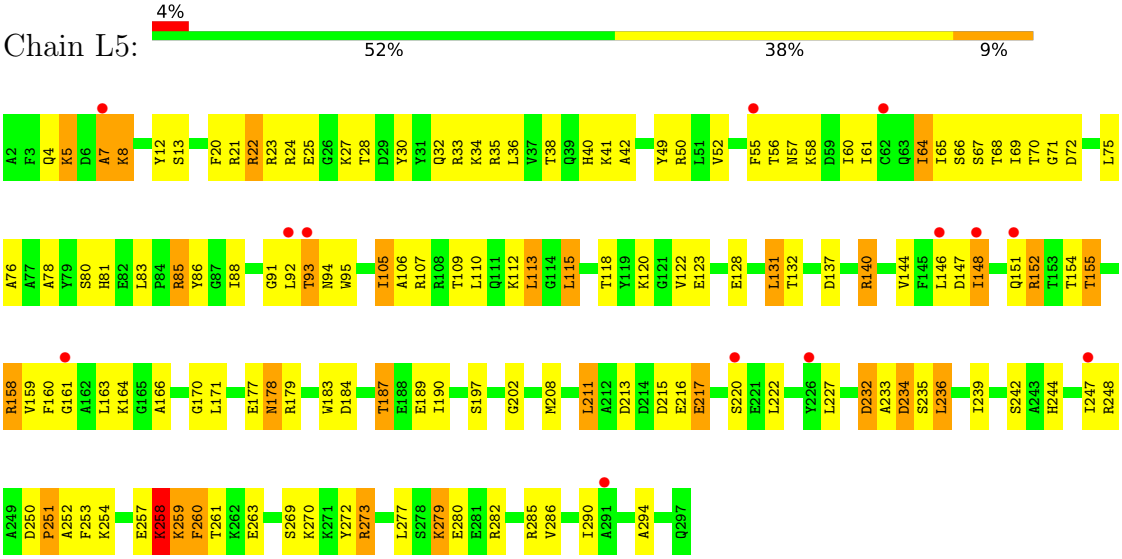


• Molecule 41: 60S ribosomal protein L4-A

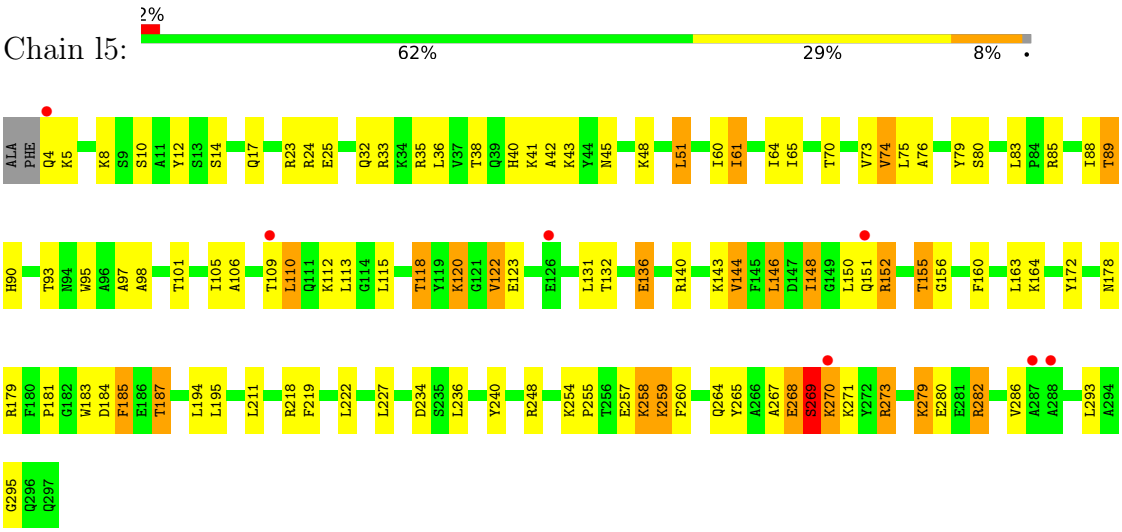
Chain l4:



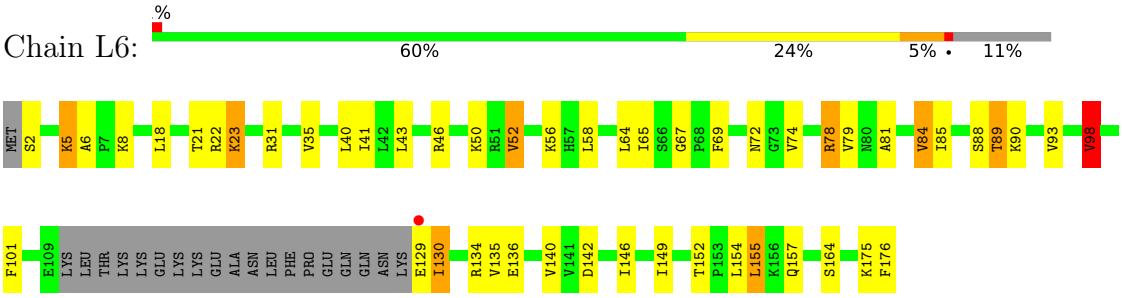
• Molecule 42: 60S ribosomal protein L5



• Molecule 42: 60S ribosomal protein L5

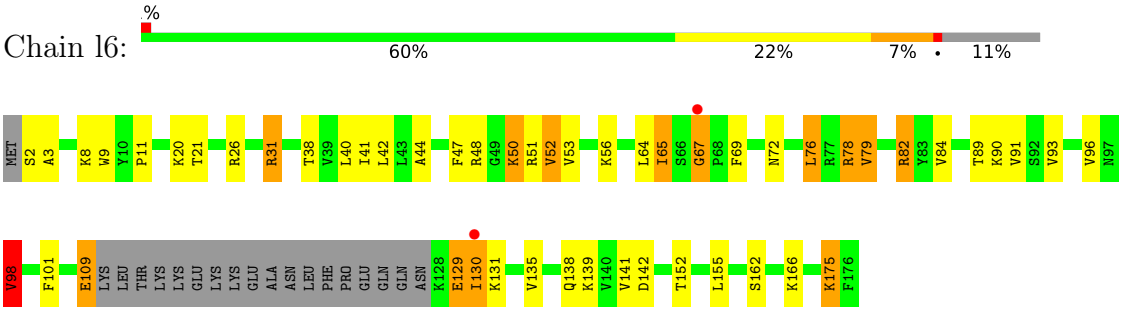


• Molecule 43: 60S ribosomal protein L6-A



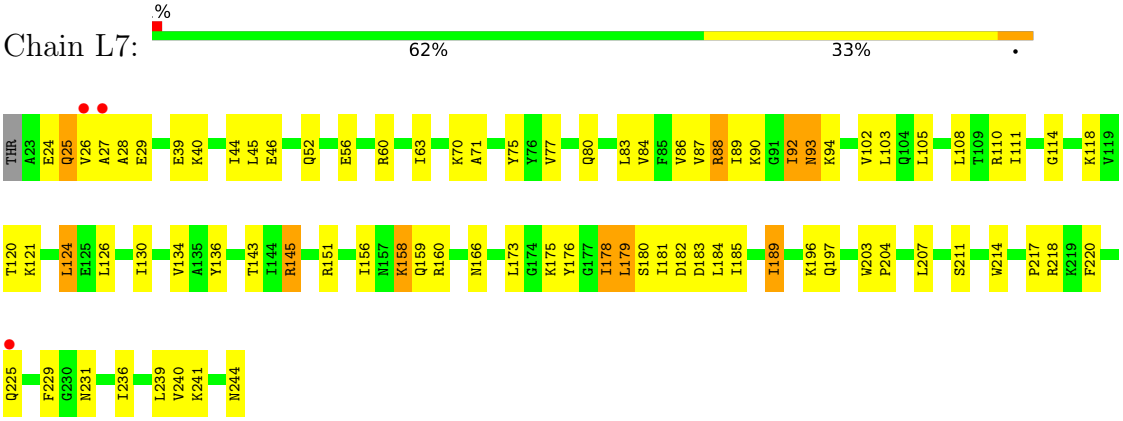
• Molecule 43: 60S ribosomal protein L6-A

Chain l6:



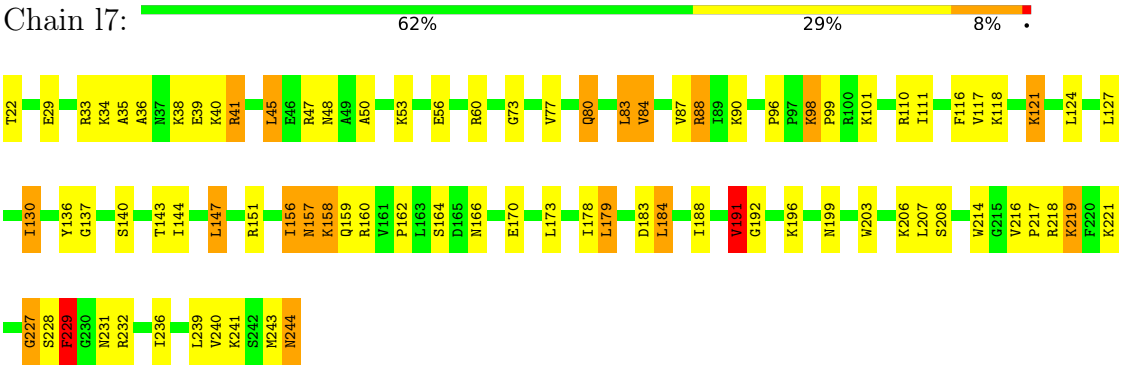
• Molecule 44: 60S ribosomal protein L7-A

Chain L7:



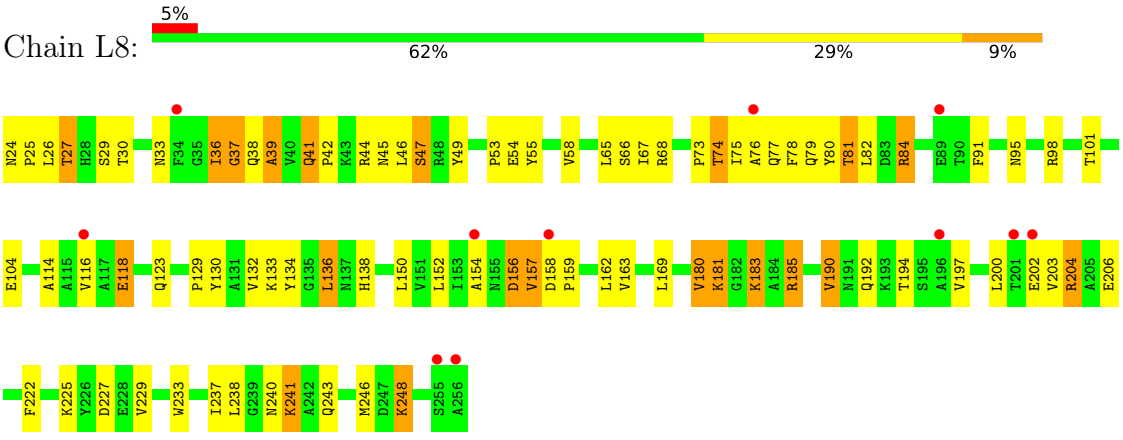
• Molecule 44: 60S ribosomal protein L7-A

Chain l7:



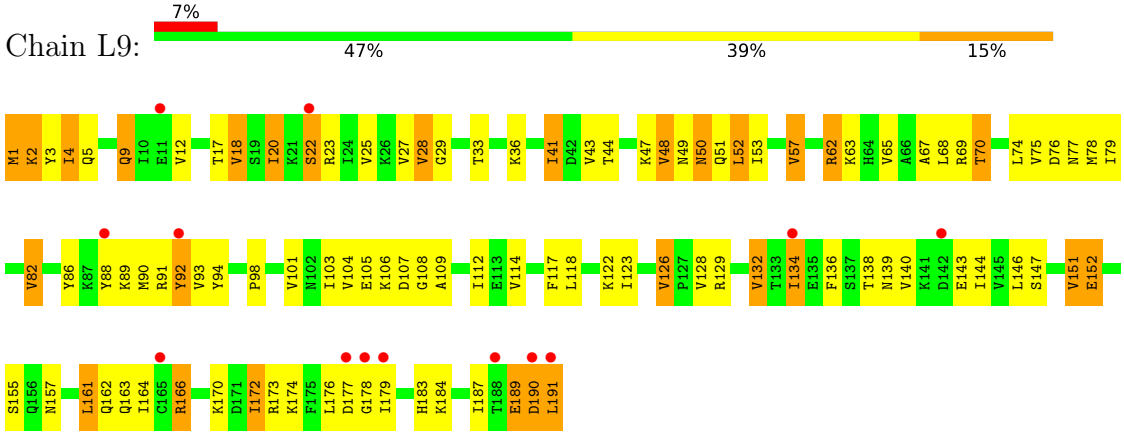
• Molecule 45: 60S ribosomal protein L8-A

Chain L8:



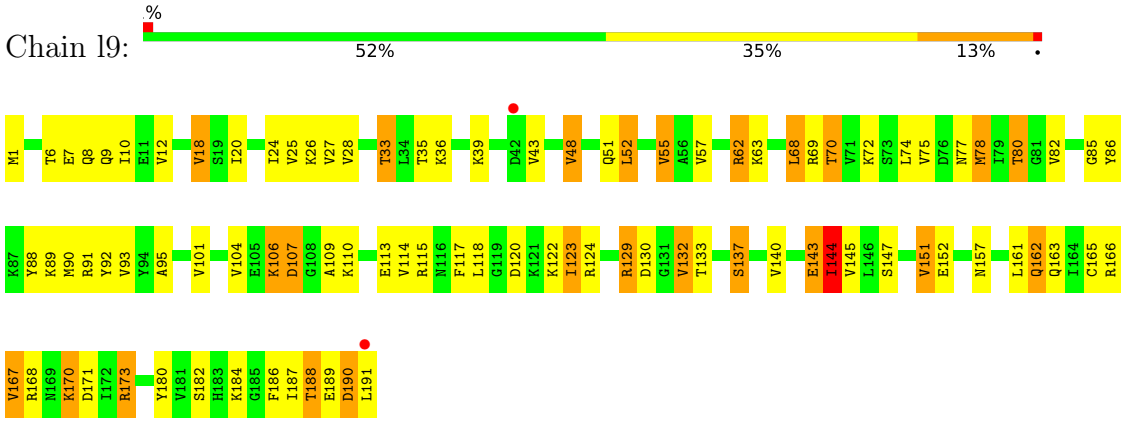
• Molecule 46: 60S ribosomal protein L9-A

Chain L9:



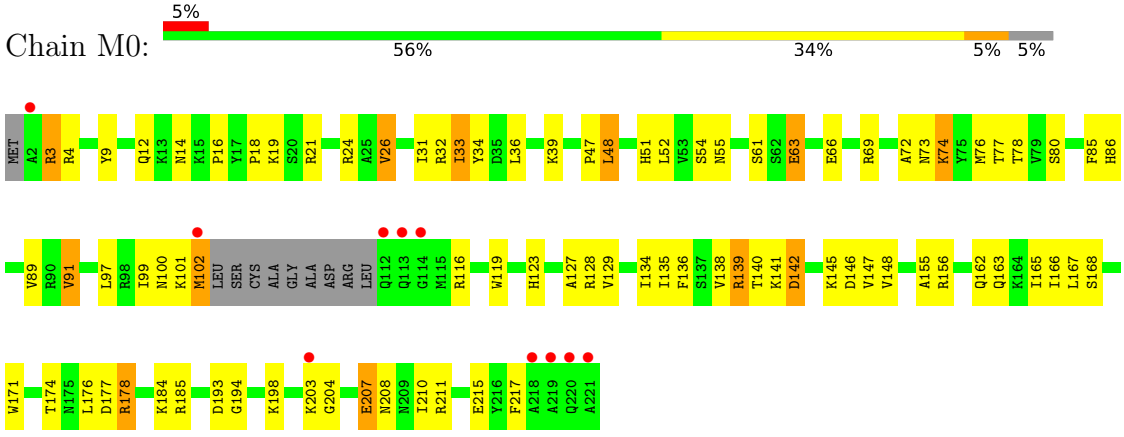
• Molecule 46: 60S ribosomal protein L9-A

Chain l9:



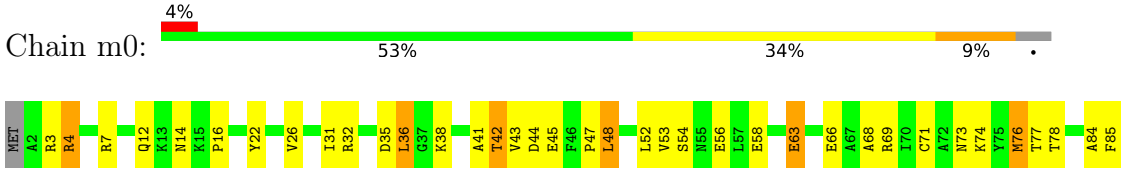
• Molecule 47: 60S ribosomal protein L10

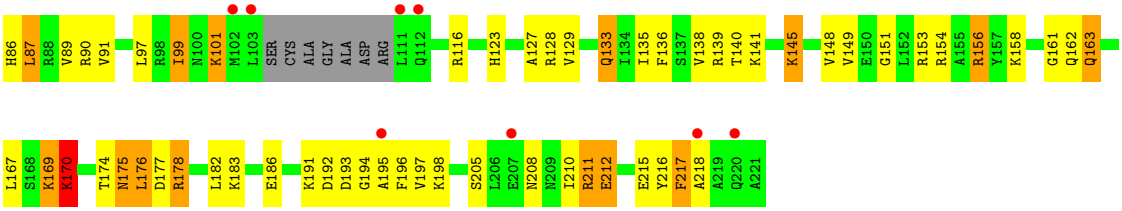
Chain M0:



• Molecule 47: 60S ribosomal protein L10

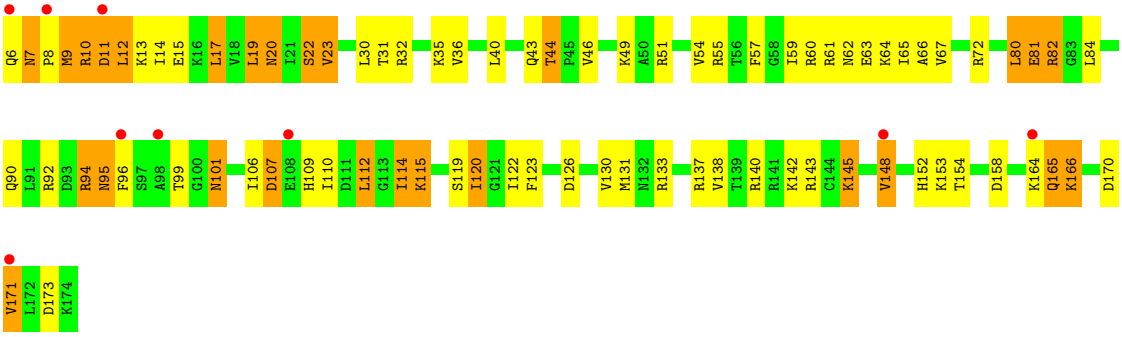
Chain m0:





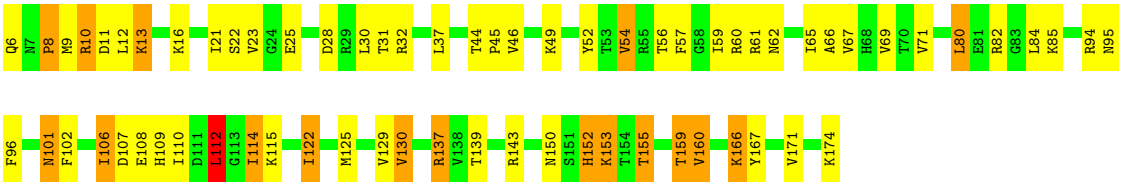
• Molecule 48: 60S ribosomal protein L11-B

Chain M1:



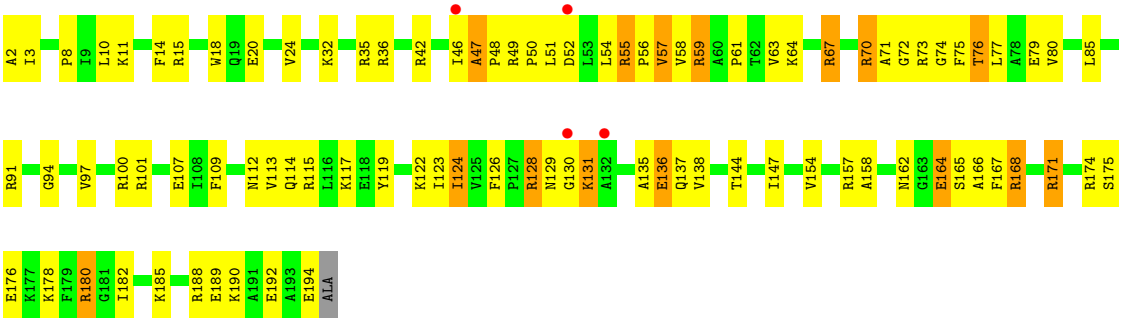
• Molecule 48: 60S ribosomal protein L11-B

Chain m1:



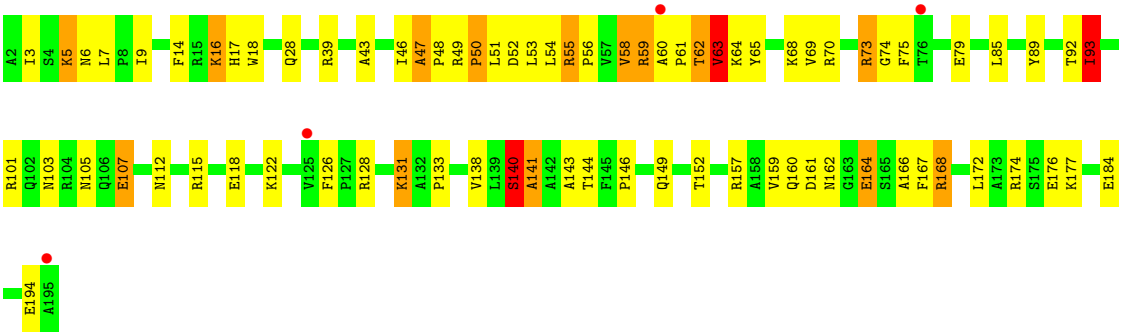
• Molecule 49: 60S ribosomal protein L13-A

Chain M3:

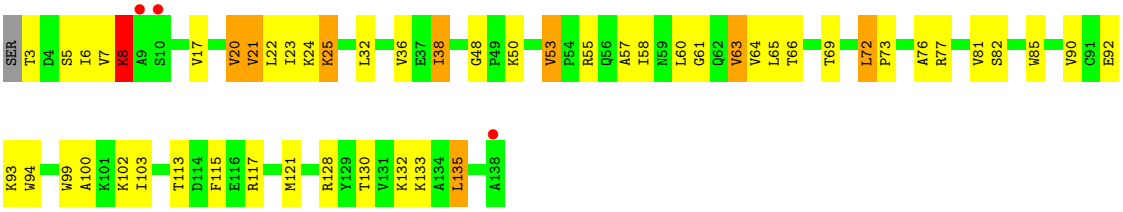


• Molecule 49: 60S ribosomal protein L13-A

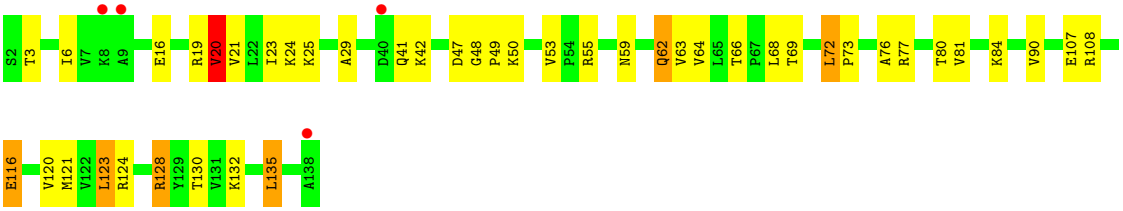
Chain m3:



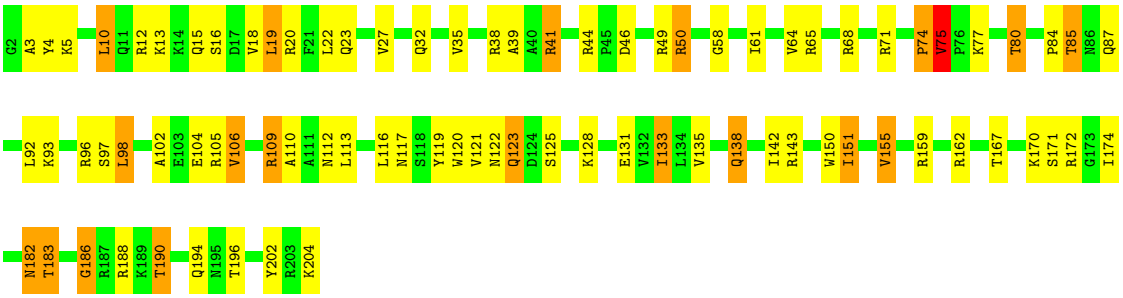
• Molecule 50: 60S ribosomal protein L14-A



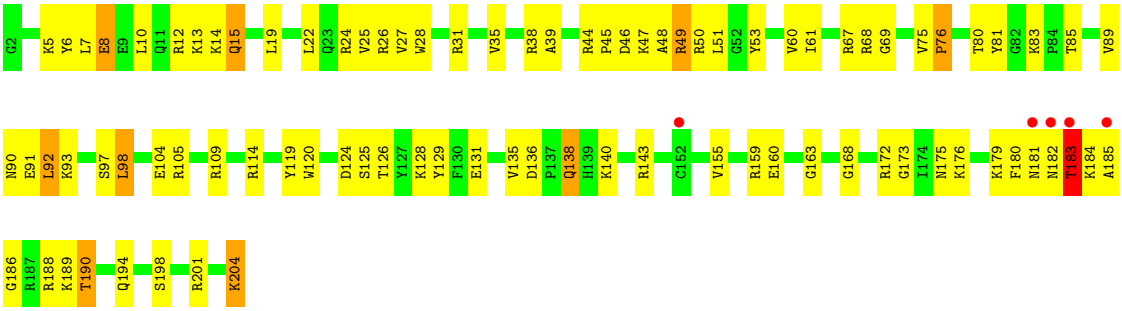
• Molecule 50: 60S ribosomal protein L14-A



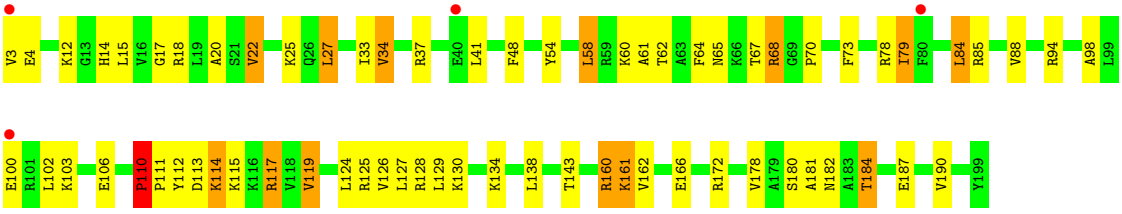
• Molecule 51: 60S ribosomal protein L15-A



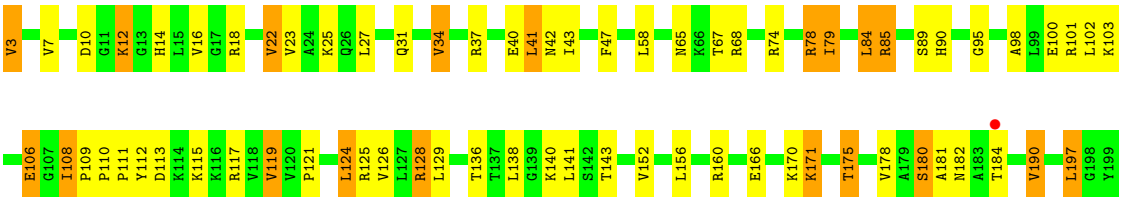
• Molecule 51: 60S ribosomal protein L15-A



• Molecule 52: 60S ribosomal protein L16-A



• Molecule 52: 60S ribosomal protein L16-A

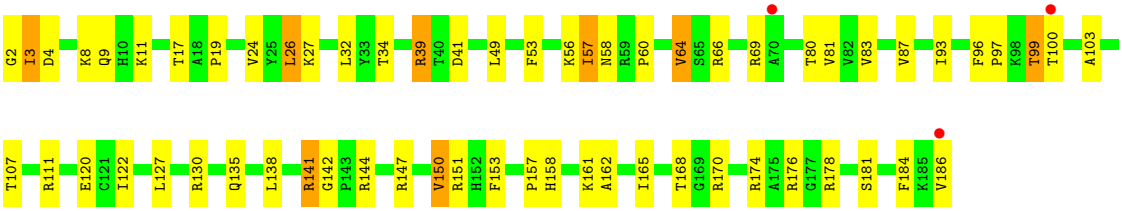


• Molecule 53: 60S ribosomal protein L17-A

• Molecule 53: 60S ribosomal protein L17-A

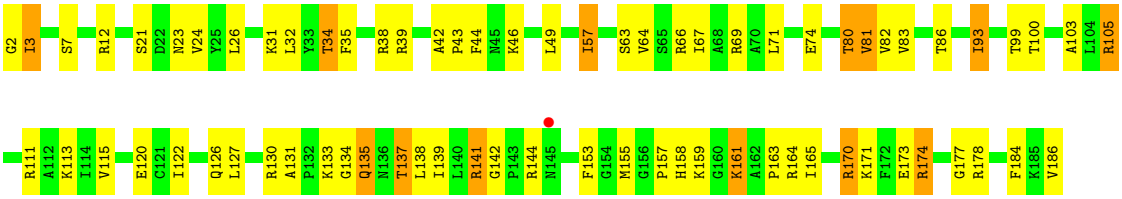
• Molecule 54: 60S ribosomal protein L18-A

Chain M8:



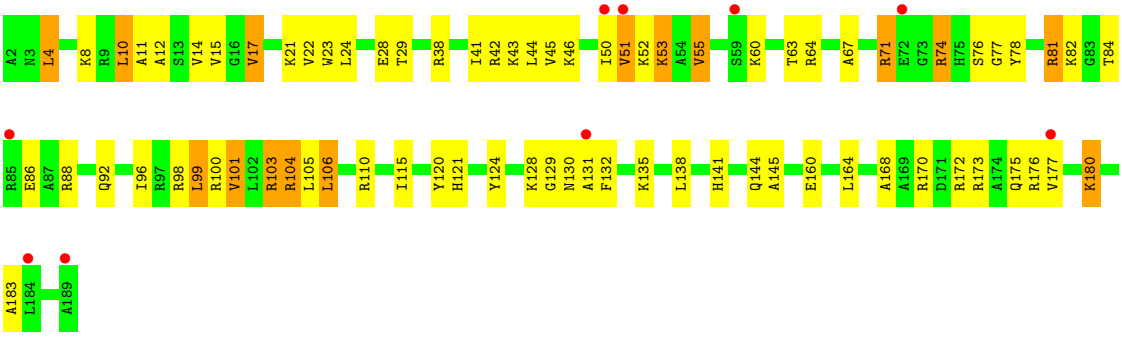
• Molecule 54: 60S ribosomal protein L18-A

Chain m8:



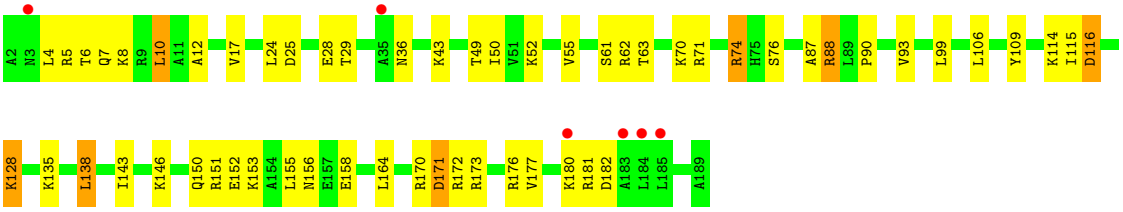
• Molecule 55: 60S ribosomal protein L19-A

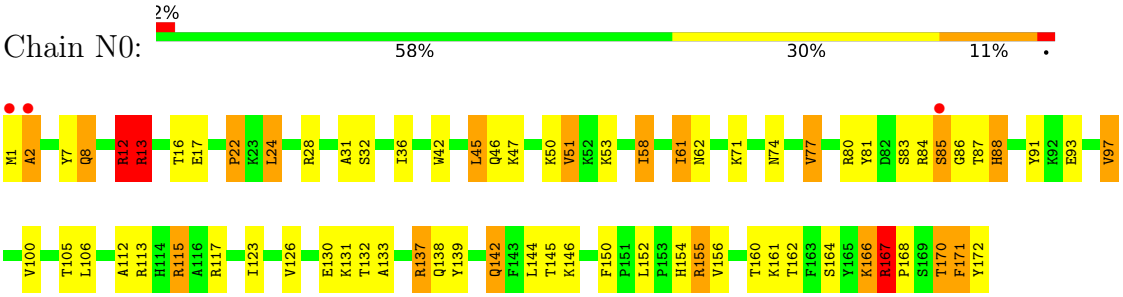
Chain M9:



• Molecule 55: 60S ribosomal protein L19-A

Chain m9:



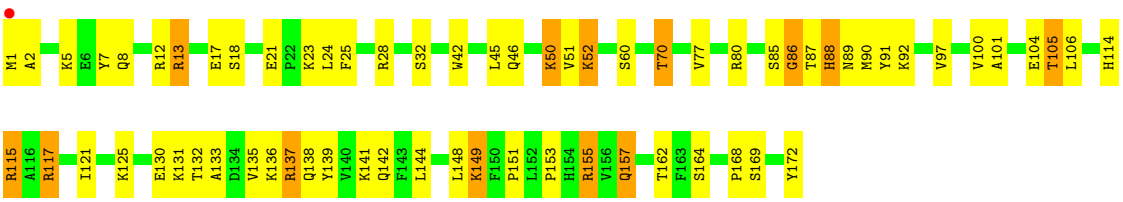


• Molecule 56: 60S ribosomal protein L20-A

Chain N0:

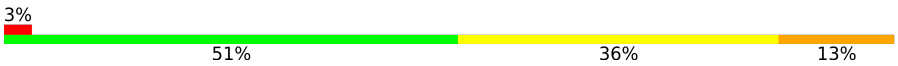
• Molecule 56: 60S ribosomal protein L20-A

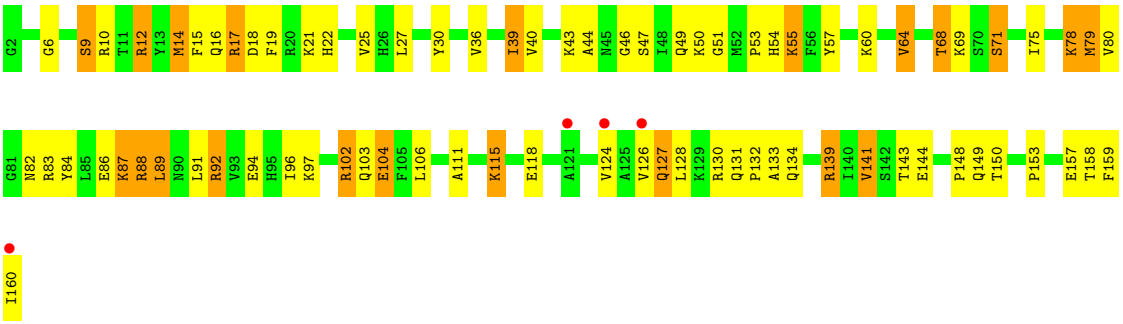
Chain n0:



• Molecule 57: 60S ribosomal protein L21-A

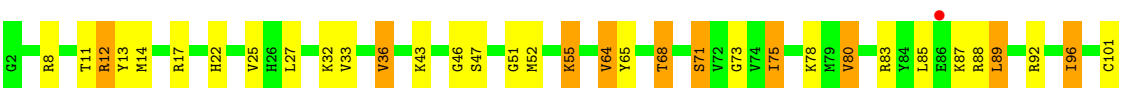
Chain N1:





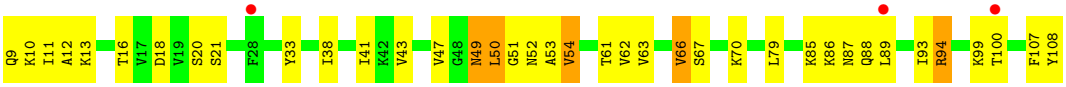
• Molecule 57: 60S ribosomal protein L21-A

Chain n1:



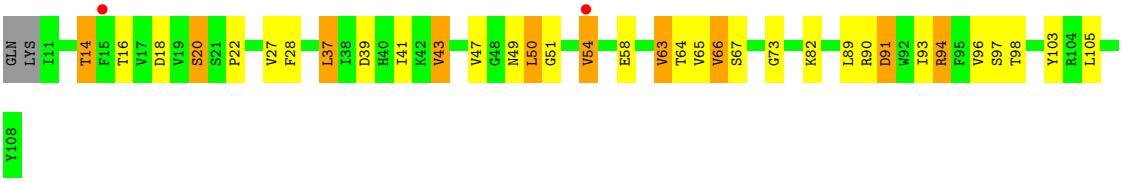
• Molecule 58: 60S ribosomal protein L22-A

Chain N2:



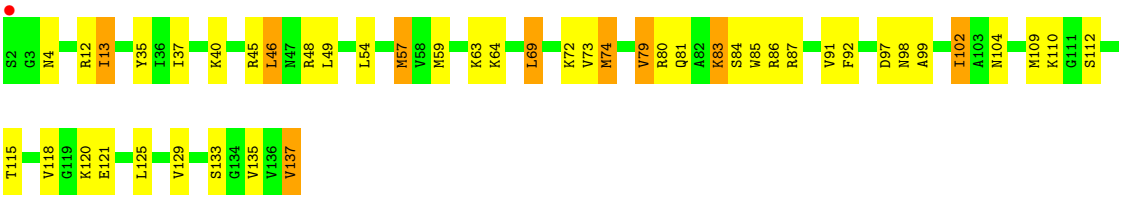
• Molecule 58: 60S ribosomal protein L22-A

Chain n2:



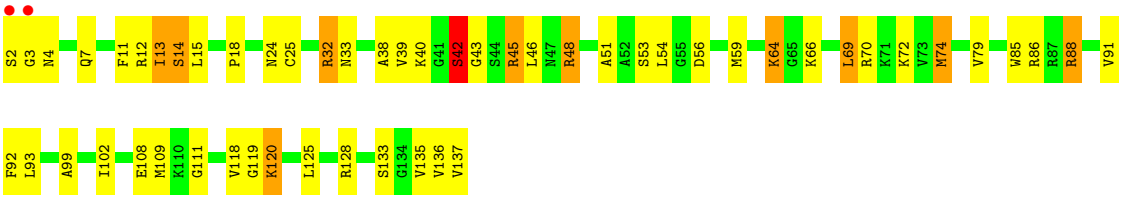
• Molecule 59: 60S ribosomal protein L23-A

Chain N3:



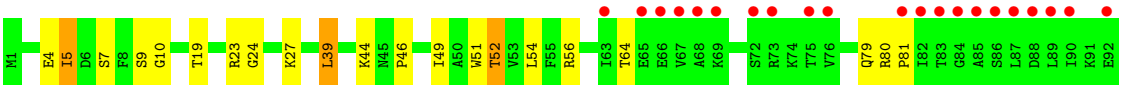
• Molecule 59: 60S ribosomal protein L23-A

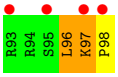
Chain n3:



• Molecule 60: 60S ribosomal protein L24-A

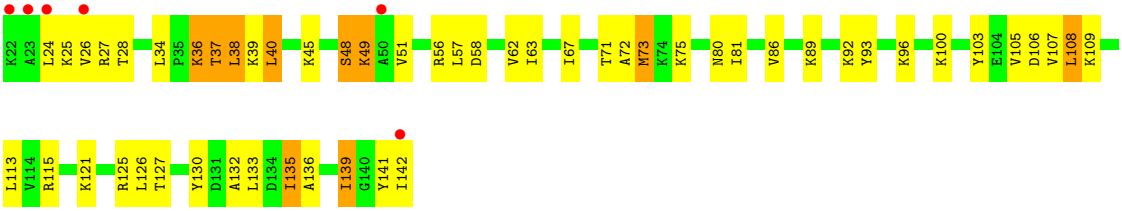
Chain N4:





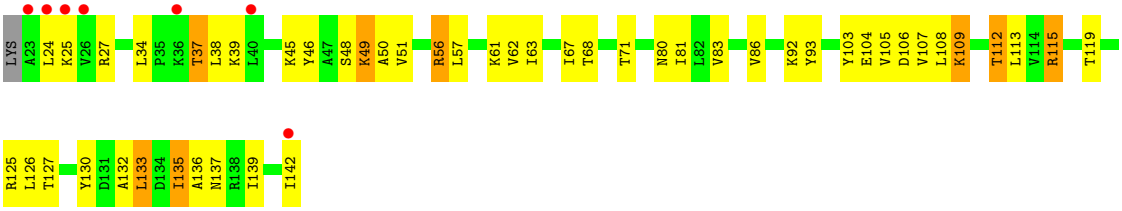
• Molecule 61: 60S ribosomal protein L25

Chain N5:



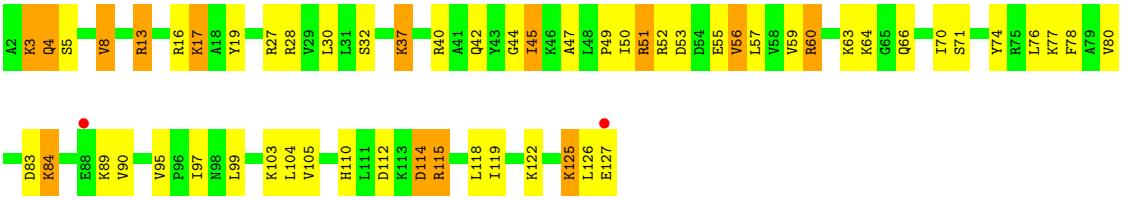
• Molecule 61: 60S ribosomal protein L25

Chain n5:



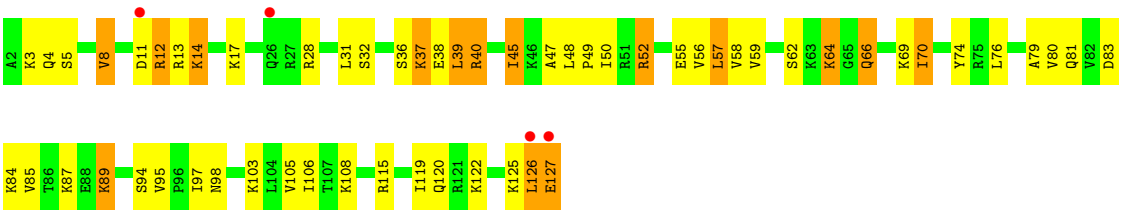
• Molecule 62: 60S ribosomal protein L26-A

Chain N6:



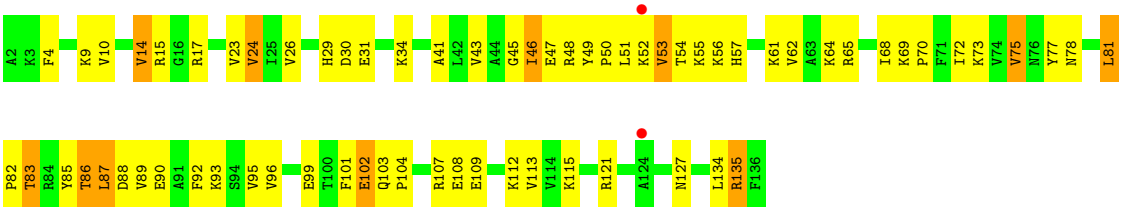
• Molecule 62: 60S ribosomal protein L26-A

Chain n6:



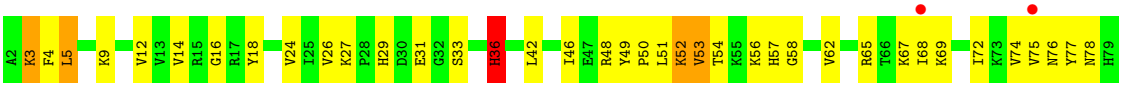
• Molecule 63: 60S ribosomal protein L27-A

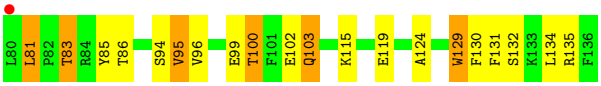
Chain N7:



• Molecule 63: 60S ribosomal protein L27-A

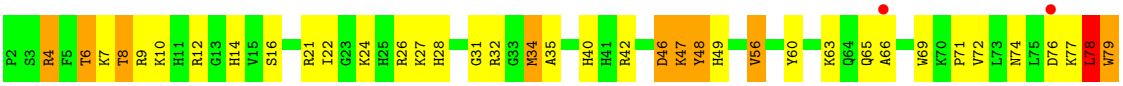
Chain n7:





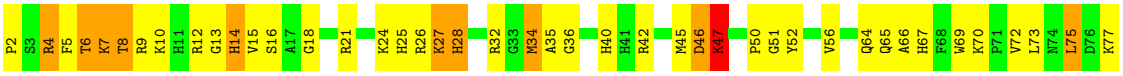
• Molecule 64: 60S ribosomal protein L28

Chain N8:



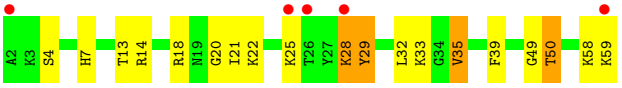
• Molecule 64: 60S ribosomal protein L28

Chain n8:



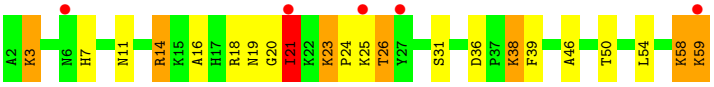
• Molecule 65: 60S ribosomal protein L29

Chain N9:

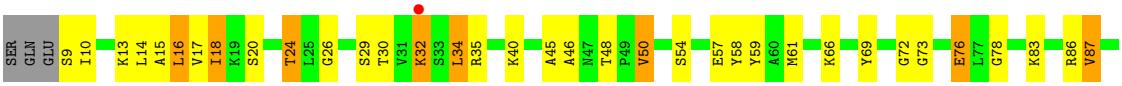


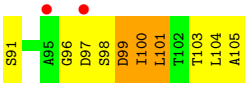
• Molecule 65: 60S ribosomal protein L29

Chain n9:

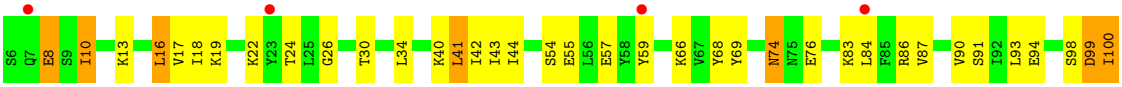


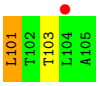
• Molecule 66: 60S ribosomal protein L30



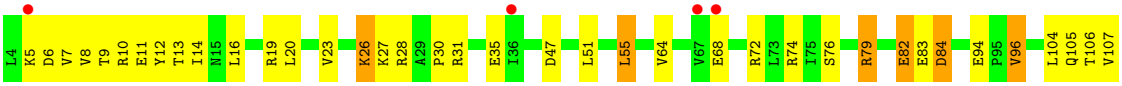


• Molecule 66: 60S ribosomal protein L30

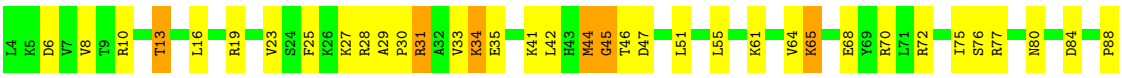


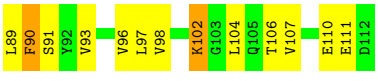


• Molecule 67: 60S ribosomal protein L31-A

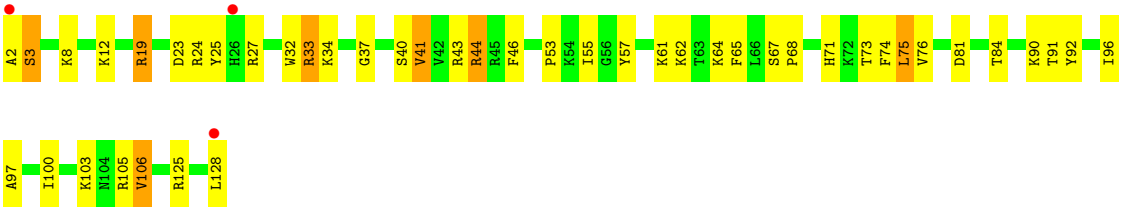


• Molecule 67: 60S ribosomal protein L31-A



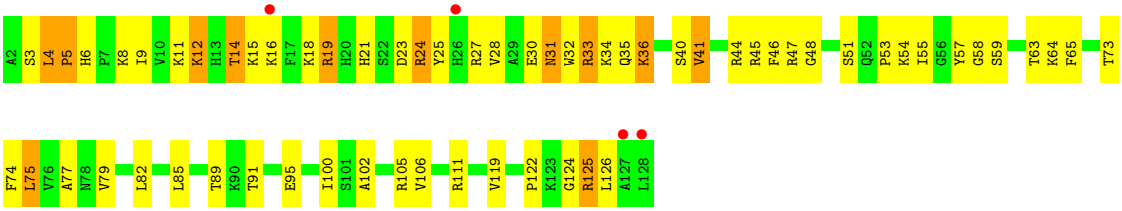


• Molecule 68: 60S ribosomal protein L32



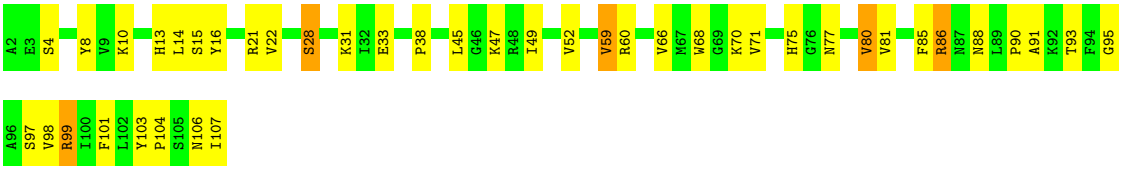
• Molecule 68: 60S ribosomal protein L32

Chain o2:



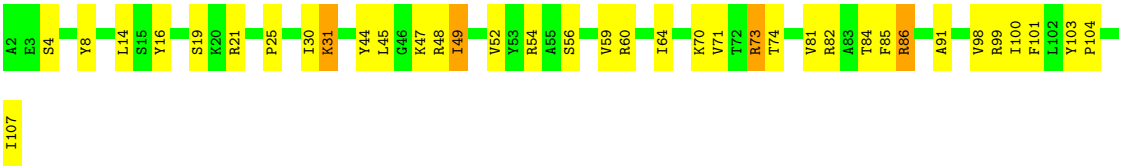
• Molecule 69: 60S ribosomal protein L33-A

Chain O3:



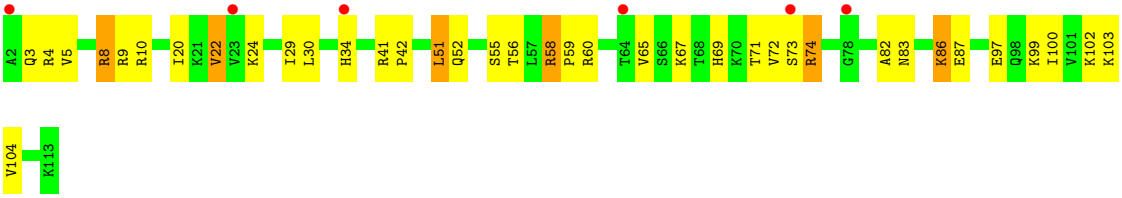
• Molecule 69: 60S ribosomal protein L33-A

Chain o3:



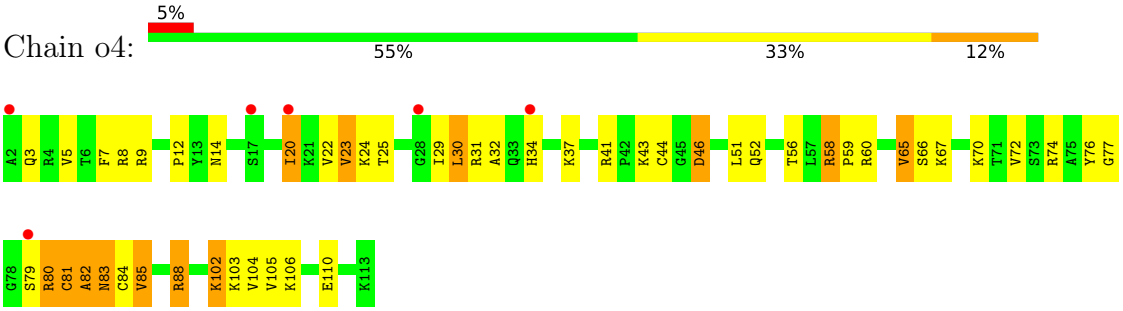
• Molecule 70: 60S ribosomal protein L34-A

Chain O4:



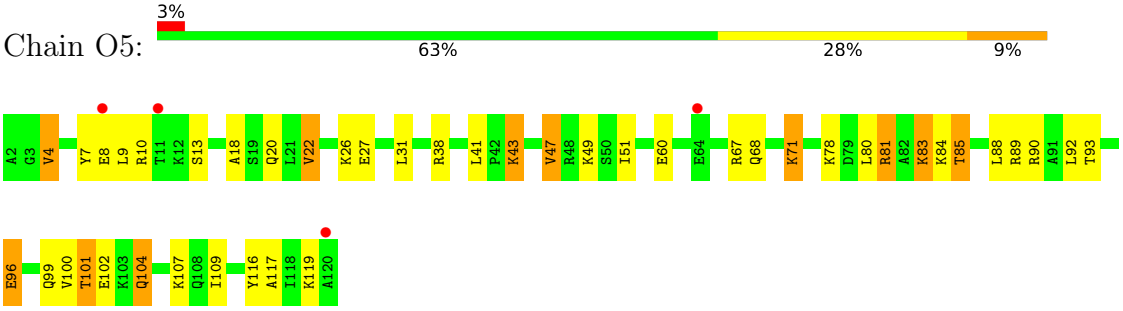
• Molecule 70: 60S ribosomal protein L34-A

Chain o4:



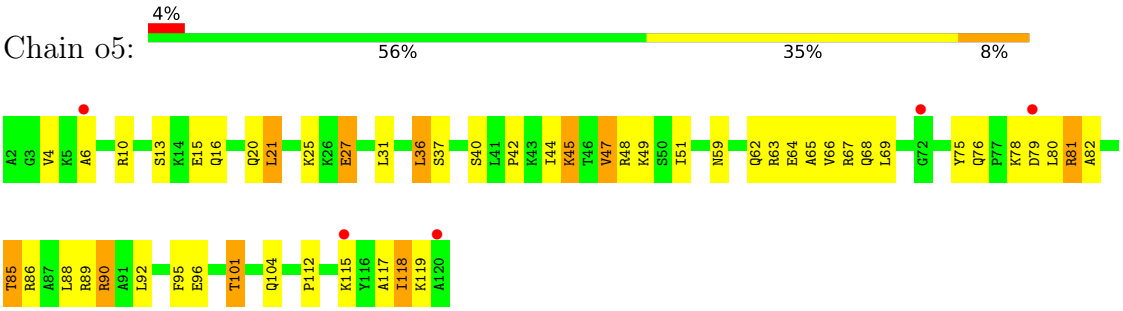
• Molecule 71: 60S ribosomal protein L35-A

Chain O5:



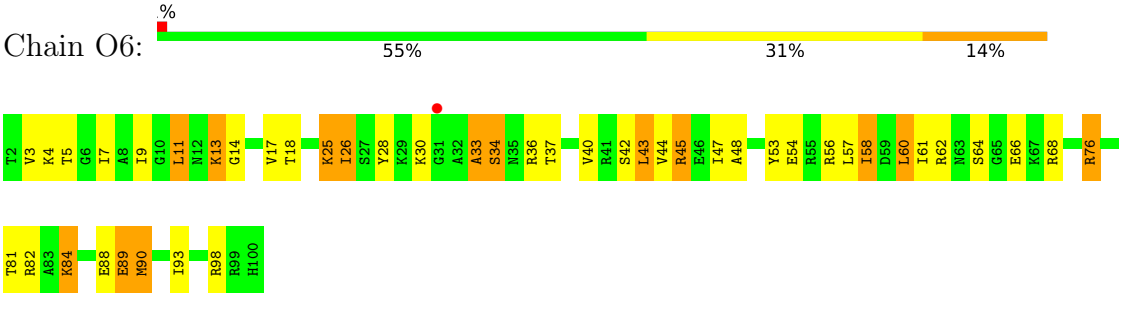
• Molecule 71: 60S ribosomal protein L35-A

Chain o5:



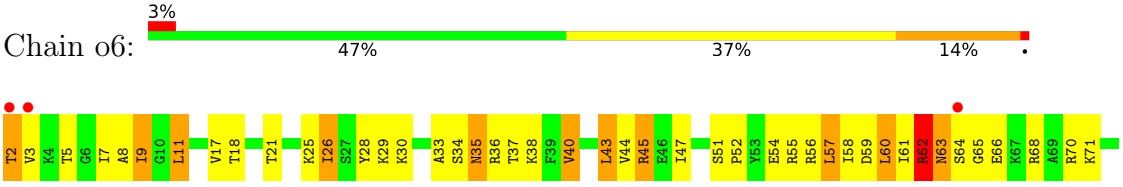
• Molecule 72: 60S ribosomal protein L36-A

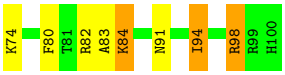
Chain O6:



• Molecule 72: 60S ribosomal protein L36-A

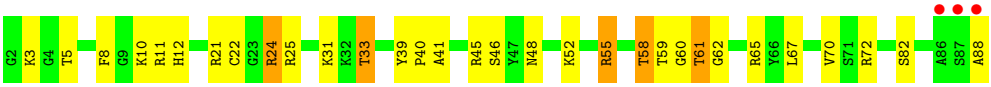
Chain o6:





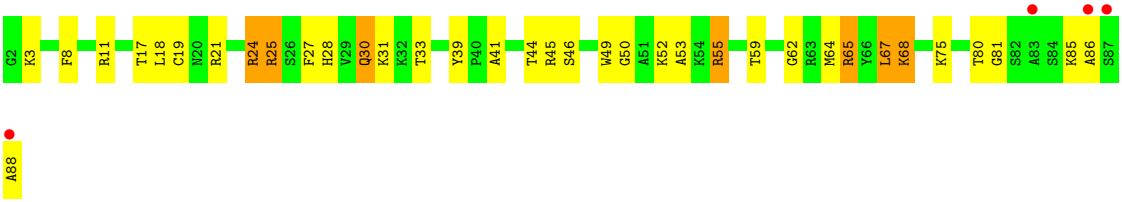
• Molecule 73: 60S ribosomal protein L37-A

Chain O7:



• Molecule 73: 60S ribosomal protein L37-A

Chain o7:

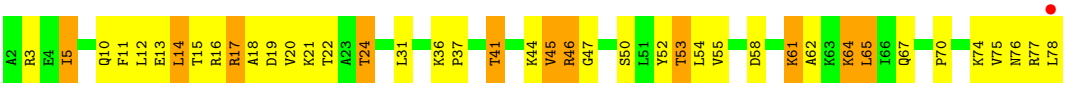


• Molecule 74: 60S ribosomal protein L38

Chain O8:

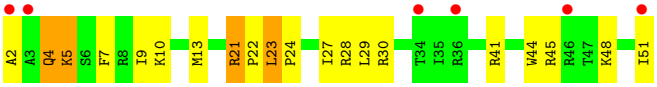
• Molecule 74: 60S ribosomal protein L38

Chain o8:



• Molecule 75: 60S ribosomal protein L39

Chain O9:

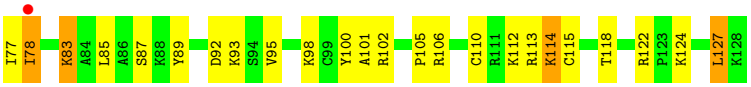


• Molecule 75: 60S ribosomal protein L39

Chain o9:

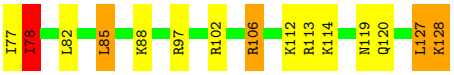
• Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain Q0:



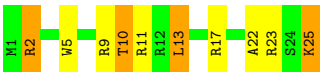
• Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain q0:



• Molecule 77: 60S ribosomal protein L41-A

Chain Q1:

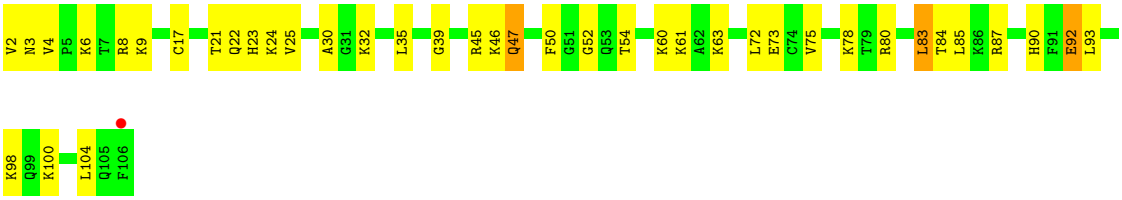


• Molecule 77: 60S ribosomal protein L41-A

Chain q1:

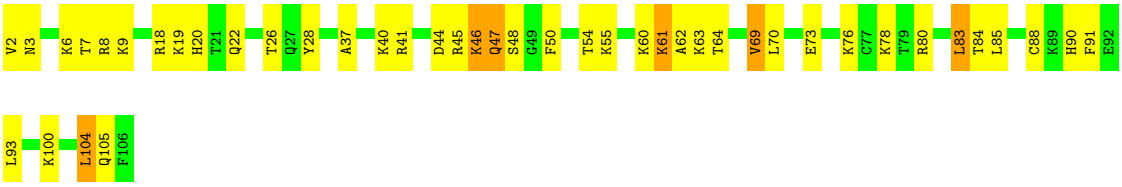
• Molecule 78: 60S ribosomal protein L42-A

Chain Q2:



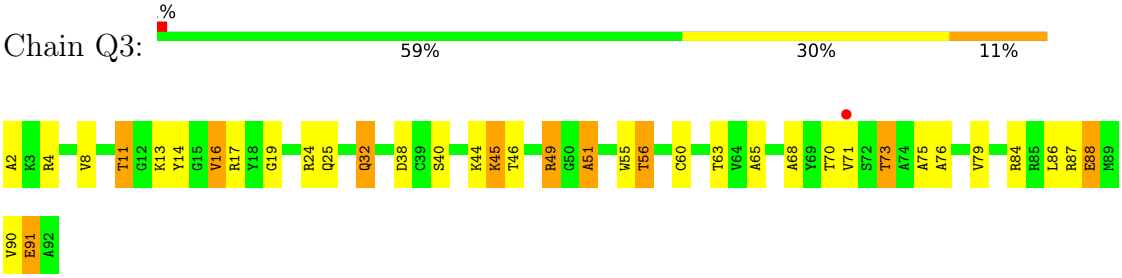
• Molecule 78: 60S ribosomal protein L42-A

Chain q2:



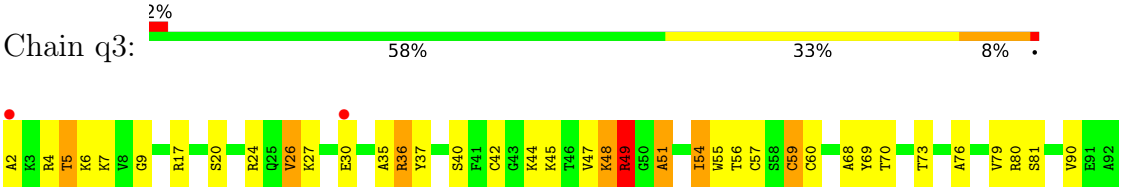
• Molecule 79: 60S ribosomal protein L43-A

Chain Q3:



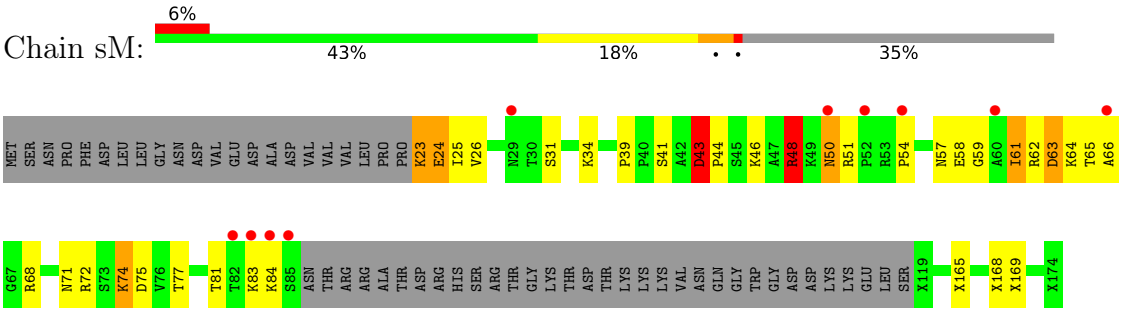
• Molecule 79: 60S ribosomal protein L43-A

Chain q3:



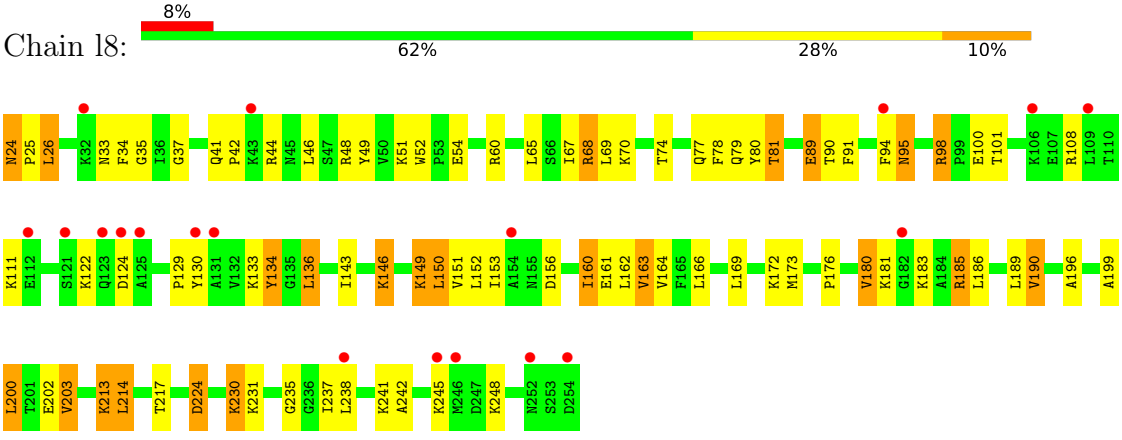
• Molecule 80: Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1

Chain sM:



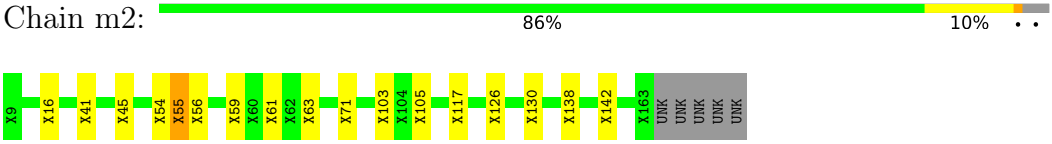
• Molecule 81: 60S ribosomal protein L8-A

Chain l8:



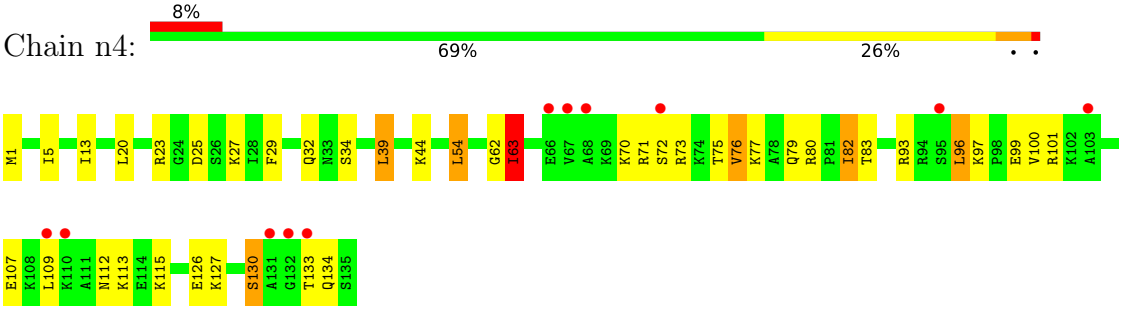
• Molecule 82: 60S ribosomal protein L12

Chain m2:



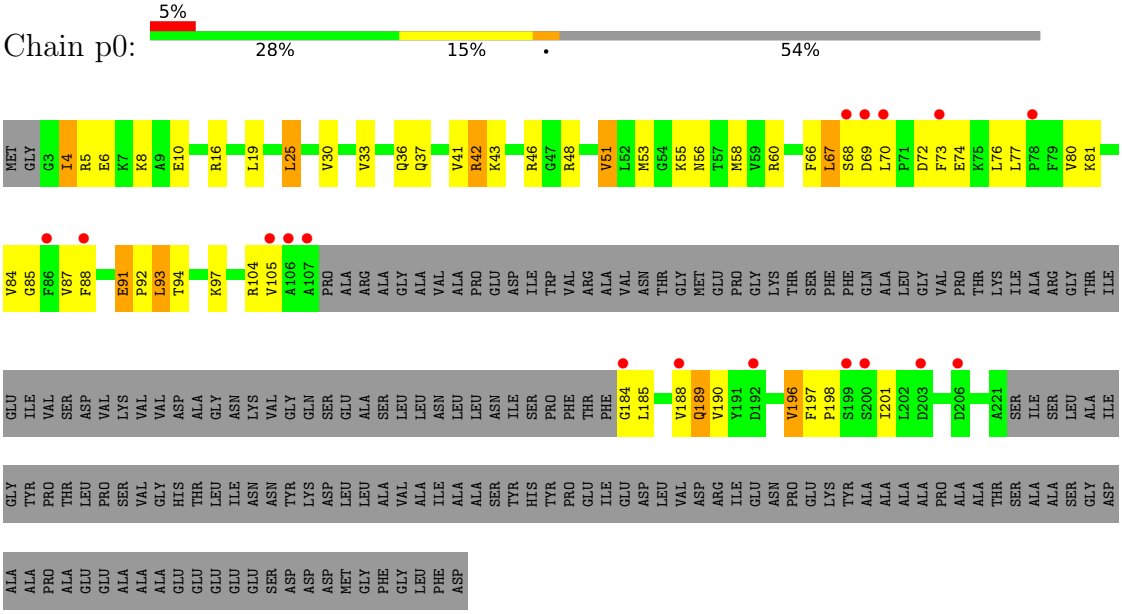
• Molecule 83: 60S ribosomal protein L24-A

Chain n4:



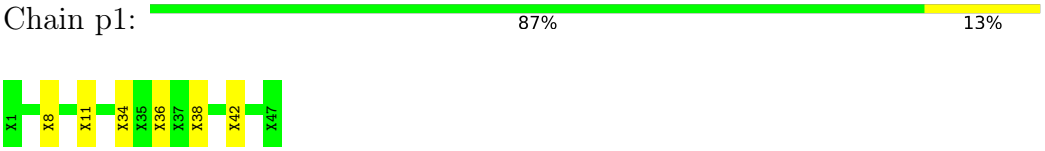
• Molecule 84: 60S acidic ribosomal protein P0

Chain p0:



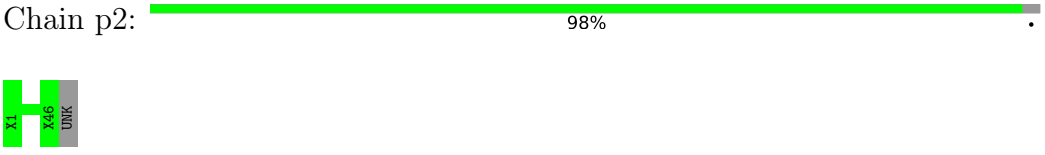
• Molecule 85: Ribosomal protein P1 alpha, P2 beta

Chain p1:



• Molecule 85: Ribosomal protein P1 alpha, P2 beta

Chain p2:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	434.23Å 287.91Å 304.12Å 90.00° 99.11° 90.00°	Depositor
Resolution (Å)	103.62 – 3.10 103.62 – 3.10	Depositor EDS
% Data completeness (in resolution range)	100.0 (103.62-3.10) 91.8 (103.62-3.10)	Depositor EDS
R_{merge}	0.23	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.94 (at 3.13Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.212 , 0.251 0.213 , 0.251	Depositor DCC
R_{free} test set	26600 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å^2)	68.5	Xtriage
Anisotropy	0.202	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 63.7	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	410475	wwPDB-VP
Average B, all atoms (Å^2)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.57% 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: MG, OHX, ZN, UAM

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	0.21	0/42442	0.44	2/66130 (0.0%)
1	6	0.24	0/42765	0.46	0/66634
2	S0	0.30	0/1617	0.63	0/2215
2	s0	0.29	0/1623	0.67	5/2222 (0.2%)
3	S1	0.26	0/1735	0.65	0/2335
3	s1	0.28	1/1748 (0.1%)	0.66	2/2352 (0.1%)
4	S2	0.26	0/1665	0.61	1/2263 (0.0%)
4	s2	0.29	0/1665	0.63	0/2263
5	S3	0.24	0/1759	0.57	0/2368
5	s3	0.26	0/1759	0.61	4/2368 (0.2%)
6	S4	0.27	0/2109	0.63	2/2839 (0.1%)
6	s4	0.29	0/2109	0.65	1/2839 (0.0%)
7	S5	0.23	0/1629	0.58	0/2202
7	s5	0.24	0/1629	0.61	0/2202
8	S6	0.23	0/1823	0.54	0/2439
8	s6	0.25	0/1779	0.59	1/2379 (0.0%)
9	S7	0.27	0/1506	0.77	4/2028 (0.2%)
9	s7	0.27	0/1516	0.70	4/2043 (0.2%)
10	S8	0.27	0/1514	0.64	0/2021
10	s8	0.29	0/1514	0.61	0/2021
11	S9	0.26	0/1519	0.64	0/2035
11	s9	0.27	0/1519	0.64	0/2035
12	C0	0.23	0/789	0.89	3/1067 (0.3%)
12	c0	0.28	0/776	0.84	5/1047 (0.5%)
13	C1	0.28	0/1239	0.65	2/1673 (0.1%)
13	c1	0.32	0/1194	0.64	0/1610
14	C2	0.31	0/898	0.81	2/1220 (0.2%)
14	c2	0.24	0/898	0.79	2/1220 (0.2%)
15	C3	0.24	0/1215	0.57	3/1638 (0.2%)
15	c3	0.25	0/1215	0.67	4/1638 (0.2%)
16	C4	0.27	0/901	0.68	0/1217
16	c4	0.27	0/960	0.62	0/1290

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	C5	0.27	0/998	0.68	0/1341
17	c5	0.30	0/1060	0.80	4/1426 (0.3%)
18	C6	0.24	0/1125	0.94	6/1510 (0.4%)
18	c6	0.24	0/1131	0.56	0/1518
19	C7	0.34	0/935	0.83	8/1254 (0.6%)
19	c7	0.24	0/914	0.66	0/1224
20	C8	0.25	0/1211	0.66	2/1628 (0.1%)
20	c8	0.26	0/1211	0.61	0/1628
21	C9	0.22	0/1130	0.55	0/1517
21	c9	0.29	0/1130	0.55	0/1517
22	D0	0.28	0/865	0.68	4/1169 (0.3%)
22	d0	0.27	0/892	0.72	3/1205 (0.2%)
23	D1	0.24	0/693	0.59	0/935
23	d1	0.25	0/693	0.60	0/935
24	D2	0.28	0/1038	0.62	0/1395
24	d2	0.33	0/1038	0.65	1/1395 (0.1%)
25	D3	0.30	0/1139	0.64	0/1518
25	d3	0.31	0/1139	0.64	0/1518
26	D4	0.24	0/1087	0.61	0/1449
26	d4	0.27	0/1087	0.73	2/1449 (0.1%)
27	D5	0.28	0/571	0.72	0/768
27	d5	0.24	0/566	0.55	0/761
28	D6	0.30	0/782	0.78	1/1047 (0.1%)
28	d6	0.28	0/782	0.68	2/1047 (0.2%)
29	D7	0.22	0/620	0.61	0/838
29	d7	0.24	0/620	0.65	0/838
30	D8	0.22	0/499	0.59	0/670
30	d8	0.28	0/499	0.58	0/670
31	D9	0.28	0/452	0.65	0/600
31	d9	0.25	0/452	0.55	0/600
32	E0	0.28	0/483	0.62	0/643
32	e0	0.30	0/499	0.83	0/665
33	E1	0.36	0/577	1.14	8/770 (1.0%)
33	e1	0.38	0/619	1.32	9/822 (1.1%)
34	SR	0.23	1/2490 (0.0%)	0.51	0/3389
34	sR	0.22	0/2491	0.55	2/3391 (0.1%)
35	SM	0.30	0/984	0.71	0/1323
36	1	0.30	0/75394	0.50	5/117545 (0.0%)
36	5	0.31	0/75414	0.50	2/117575 (0.0%)
37	3	0.24	0/2883	0.43	0/4491
37	7	0.29	0/2883	0.48	0/4491
38	4	0.30	0/3746	0.48	0/5832
38	8	0.26	0/3746	0.45	0/5832

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
39	L2	0.32	0/1948	0.65	0/2617
39	l2	0.33	0/1946	0.69	0/2614
40	L3	0.32	0/3146	0.67	2/4228 (0.0%)
40	l3	0.38	0/3146	0.69	0/4228
41	L4	0.36	0/2800	0.69	0/3790
41	l4	0.33	0/2800	0.68	0/3790
42	L5	0.27	0/2425	0.64	3/3271 (0.1%)
42	l5	0.31	0/2408	0.58	0/3248
43	L6	0.31	0/1260	0.59	0/1694
43	l6	0.31	0/1269	0.67	6/1705 (0.4%)
44	L7	0.32	0/1821	0.60	0/2451
44	l7	0.35	0/1828	0.64	3/2461 (0.1%)
45	L8	0.25	0/1836	0.58	0/2481
46	L9	0.26	0/1539	0.59	0/2073
46	l9	0.33	0/1539	0.62	1/2073 (0.0%)
47	M0	0.32	0/1741	0.60	0/2335
47	m0	0.36	0/1758	0.70	0/2358
48	M1	0.26	0/1374	0.62	0/1842
48	m1	0.31	0/1374	0.73	2/1842 (0.1%)
49	M3	0.36	0/1568	0.74	2/2106 (0.1%)
49	m3	0.32	0/1573	0.71	2/2113 (0.1%)
50	M4	0.31	0/1068	0.58	0/1438
50	m4	0.33	0/1074	0.55	0/1446
51	M5	0.34	0/1757	0.67	0/2354
51	m5	0.31	0/1757	0.65	2/2354 (0.1%)
52	M6	0.35	0/1585	0.59	0/2128
52	m6	0.42	0/1585	0.64	0/2128
53	M7	0.33	0/1443	0.70	2/1944 (0.1%)
53	m7	0.37	0/1250	0.66	0/1683
54	M8	0.35	0/1465	0.70	0/1965
54	m8	0.32	0/1465	0.63	0/1965
55	M9	0.25	0/1538	0.54	2/2050 (0.1%)
55	m9	0.26	0/1538	0.48	0/2050
56	N0	0.31	0/1481	0.63	0/1990
56	n0	0.35	0/1481	0.59	0/1990
57	N1	0.33	0/1300	0.64	0/1743
57	n1	0.35	0/1300	0.62	0/1743
58	N2	0.24	0/812	0.58	0/1099
58	n2	0.22	0/794	0.58	0/1076
59	N3	0.31	0/1018	0.55	0/1369
59	n3	0.38	0/1018	0.63	0/1369
60	N4	0.31	0/712	0.70	3/958 (0.3%)
61	N5	0.28	0/979	0.57	0/1321

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
61	n5	0.27	0/974	0.59	0/1314
62	N6	0.33	0/1004	0.69	1/1341 (0.1%)
62	n6	0.29	0/1004	0.61	0/1341
63	N7	0.25	0/1118	0.56	0/1497
63	n7	0.32	1/1118 (0.1%)	0.56	0/1497
64	N8	0.36	0/1204	0.73	0/1612
64	n8	0.36	0/1204	0.77	4/1612 (0.2%)
65	N9	0.35	0/473	0.63	0/629
65	n9	0.37	0/473	0.74	0/629
66	O0	0.23	0/751	0.49	0/1008
66	o0	0.21	0/775	0.47	0/1040
67	O1	0.29	0/890	0.56	0/1196
67	o1	0.33	0/897	0.66	0/1205
68	O2	0.36	0/1041	0.63	0/1394
68	o2	0.36	0/1041	0.72	2/1394 (0.1%)
69	O3	0.36	0/868	0.65	0/1168
69	o3	0.39	0/868	0.70	0/1168
70	O4	0.28	0/890	0.59	0/1189
70	o4	0.28	0/890	0.59	0/1189
71	O5	0.29	0/978	0.61	0/1301
71	o5	0.26	0/974	0.52	0/1297
72	O6	0.30	0/778	0.63	0/1034
72	o6	0.28	0/777	0.67	2/1033 (0.2%)
73	O7	0.37	0/696	0.76	0/923
73	o7	0.35	0/696	0.76	2/923 (0.2%)
74	O8	0.23	0/618	0.52	0/826
74	o8	0.23	0/614	0.53	0/822
75	O9	0.37	0/443	0.67	0/588
75	o9	0.36	0/443	0.57	0/588
76	Q0	0.30	0/423	0.67	0/562
76	q0	0.41	0/423	0.67	0/562
77	Q1	0.31	0/234	0.56	0/300
77	q1	0.37	0/234	0.65	0/300
78	Q2	0.31	0/860	0.66	0/1136
78	q2	0.29	0/860	0.57	0/1136
79	Q3	0.32	0/701	0.65	0/934
79	q3	0.30	0/701	0.66	0/934
80	sM	0.33	0/480	0.80	0/642
81	l8	0.26	0/1795	0.58	0/2429
83	n4	0.38	0/1052	0.81	7/1398 (0.5%)
84	p0	0.25	0/1092	0.53	0/1474
All	All	0.29	3/430471 (0.0%)	0.55	154/632040 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	S0	0	1
2	s0	0	3
3	S1	0	1
3	s1	0	1
4	S2	0	1
4	s2	0	2
5	S3	0	1
5	s3	0	1
6	S4	0	1
7	S5	0	3
7	s5	0	4
9	S7	0	2
9	s7	0	3
10	S8	0	2
10	s8	0	1
11	s9	0	1
14	c2	0	1
15	c3	0	1
16	C4	0	3
16	c4	0	2
17	C5	0	2
17	c5	0	3
18	C6	0	2
18	c6	0	2
19	C7	0	1
19	c7	0	3
20	c8	0	1
22	D0	0	1
22	d0	0	1
23	d1	0	1
24	D2	0	1
24	d2	0	1
25	D3	0	1
25	d3	0	1
26	D4	0	1
26	d4	0	1
27	D5	0	2
27	d5	0	2
28	D6	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
32	e0	0	1
33	E1	0	3
33	e1	0	3
34	sR	0	1
39	l2	0	1
40	l3	0	2
41	L4	0	1
41	l4	0	1
42	L5	0	3
42	l5	0	3
43	l6	0	1
44	l7	0	1
45	L8	0	2
46	L9	0	1
48	m1	0	1
49	M3	0	1
49	m3	0	1
50	M4	0	1
50	m4	0	1
51	M5	0	1
51	m5	0	1
52	M6	0	1
52	m6	0	1
53	m7	0	1
56	N0	0	3
56	n0	0	2
57	N1	0	1
58	n2	0	1
60	N4	0	2
63	n7	0	2
64	n8	0	1
65	N9	0	1
65	n9	0	1
66	o0	0	1
67	o1	0	1
70	o4	0	1
71	o5	0	1
79	Q3	0	1
79	q3	0	1
80	sM	0	2
81	l8	0	1
82	m2	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
All	All	0	126

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	s1	219	LYS	C-N	6.03	1.46	1.33
63	n7	36	HIS	C-N	5.87	1.47	1.33
34	SR	245	PHE	C-N	5.05	1.44	1.33

All (154) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	C6	40	GLU	CA-C-N	17.38	141.57	119.84
18	C6	40	GLU	C-N-CA	17.38	141.57	119.84
33	e1	87	THR	CA-C-N	14.35	137.78	119.84
33	e1	87	THR	C-N-CA	14.35	137.78	119.84
12	C0	87	VAL	CA-C-N	11.12	133.75	119.84
12	C0	87	VAL	C-N-CA	11.12	133.75	119.84
44	l7	227	GLY	N-CA-C	9.38	124.01	111.72
2	s0	206	ASP	N-CA-C	8.73	129.10	109.81
36	5	1307	G	C2'-C3'-O3'	8.02	121.53	109.50
48	m1	152	HIS	N-CA-C	-7.76	94.27	110.80
83	n4	75	THR	CA-C-N	7.74	135.89	121.97
83	n4	75	THR	C-N-CA	7.74	135.89	121.97
17	c5	135	THR	CB-CA-C	-7.63	105.66	116.34
14	C2	101	ALA	CA-C-N	-7.58	106.55	121.41
14	C2	101	ALA	C-N-CA	-7.58	106.55	121.41
12	c0	88	PRO	N-CA-CB	7.50	111.12	103.25
17	c5	135	THR	N-CA-C	7.40	118.95	108.00
12	c0	97	PRO	N-CA-CB	7.39	111.01	103.25
12	c0	83	PRO	N-CA-CB	7.25	110.87	103.25
22	d0	120	SER	CB-CA-C	-7.24	108.23	116.63
6	S4	193	GLY	N-CA-C	7.12	130.05	113.18
36	5	1307	G	P-O3'-C3'	7.10	130.86	120.20
12	C0	88	PRO	N-CA-CB	6.87	110.46	103.25
55	M9	129	GLY	CA-C-N	-6.85	108.45	121.54
55	M9	129	GLY	C-N-CA	-6.85	108.45	121.54
9	S7	64	VAL	N-CA-C	-6.64	94.55	108.88
60	N4	81	PRO	N-CA-C	6.56	125.97	112.47
33	e1	101	ALA	CA-C-N	6.54	133.75	121.97
33	e1	101	ALA	C-N-CA	6.54	133.75	121.97
83	n4	71	ARG	CA-C-N	6.53	134.01	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
83	n4	71	ARG	C-N-CA	6.53	134.01	121.54
26	d4	35	VAL	CA-C-N	6.46	133.88	121.54
26	d4	35	VAL	C-N-CA	6.46	133.88	121.54
5	s3	143	ARG	CA-C-N	6.42	133.81	121.54
5	s3	143	ARG	C-N-CA	6.42	133.81	121.54
33	E1	84	VAL	CA-C-N	6.40	133.75	121.54
33	E1	84	VAL	C-N-CA	6.40	133.75	121.54
22	D0	16	GLN	CA-C-N	6.39	133.75	121.54
22	D0	16	GLN	C-N-CA	6.39	133.75	121.54
15	c3	58	HIS	CA-C-N	-6.37	108.92	121.41
15	c3	58	HIS	C-N-CA	-6.37	108.92	121.41
15	c3	28	LEU	CA-C-N	6.35	133.67	121.54
15	c3	28	LEU	C-N-CA	6.35	133.67	121.54
9	s7	9	LEU	CA-C-N	6.22	133.42	121.54
9	s7	9	LEU	C-N-CA	6.22	133.42	121.54
19	C7	87	GLU	CA-C-N	6.21	133.14	121.97
19	C7	87	GLU	C-N-CA	6.21	133.14	121.97
6	s4	12	LEU	CB-CA-C	-6.18	103.71	109.83
68	o2	124	GLY	CA-C-N	-6.16	112.05	121.66
68	o2	124	GLY	C-N-CA	-6.16	112.05	121.66
36	1	1307	G	C2'-C3'-O3'	6.07	118.60	109.50
46	l9	190	ASP	CB-CA-C	-6.03	108.61	115.79
83	n4	76	VAL	N-CA-C	6.00	121.83	109.34
19	C7	85	VAL	CA-CB-CG1	5.99	120.58	110.40
33	E1	106	TYR	N-CA-C	-5.94	98.16	110.80
36	1	979	U	P-O3'-C3'	5.91	129.06	120.20
20	C8	27	LYS	CA-C-N	5.90	132.59	121.97
20	C8	27	LYS	C-N-CA	5.90	132.59	121.97
5	s3	43	PRO	CA-C-N	5.85	132.72	121.54
5	s3	43	PRO	C-N-CA	5.85	132.72	121.54
19	C7	85	VAL	CB-CA-C	5.84	121.99	111.36
28	D6	86	VAL	N-CA-C	-5.82	97.23	109.34
17	c5	126	VAL	CA-C-N	5.82	132.66	121.54
17	c5	126	VAL	C-N-CA	5.82	132.66	121.54
62	N6	84	LYS	CB-CA-C	-5.82	104.07	109.83
43	l6	129	GLU	CA-C-N	5.81	132.42	121.97
43	l6	129	GLU	C-N-CA	5.81	132.42	121.97
19	C7	86	PRO	N-CA-C	5.80	124.42	112.47
43	l6	67	GLY	CA-C-N	5.78	140.88	127.00
43	l6	67	GLY	C-N-CA	5.78	140.88	127.00
19	C7	23	LYS	N-CA-C	-5.76	98.53	110.80
33	e1	99	LYS	CA-C-N	5.74	132.50	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	e1	99	LYS	C-N-CA	5.74	132.50	121.54
18	C6	31	VAL	CA-C-N	5.73	132.49	121.54
18	C6	31	VAL	C-N-CA	5.73	132.49	121.54
42	L5	187	THR	CA-C-N	-5.64	114.11	122.41
42	L5	187	THR	C-N-CA	-5.64	114.11	122.41
4	S2	248	SER	CB-CA-C	-5.64	108.44	115.89
64	n8	75	LEU	CA-C-N	5.63	128.60	120.38
64	n8	75	LEU	C-N-CA	5.63	128.60	120.38
15	C3	22	ALA	CA-C-N	5.61	140.45	127.00
15	C3	22	ALA	C-N-CA	5.61	140.45	127.00
33	E1	88	PRO	CA-C-N	5.60	134.03	121.76
33	E1	88	PRO	C-N-CA	5.60	134.03	121.76
83	n4	70	LYS	CA-C-N	5.59	132.21	121.54
83	n4	70	LYS	C-N-CA	5.59	132.21	121.54
1	2	1761	U	C2'-C3'-O3'	5.58	117.88	109.50
14	c2	89	ILE	CA-C-N	5.57	132.17	121.54
14	c2	89	ILE	C-N-CA	5.57	132.17	121.54
9	s7	64	VAL	N-CA-C	5.56	120.89	108.88
2	s0	188	LEU	CA-C-N	5.56	131.97	121.97
2	s0	188	LEU	C-N-CA	5.56	131.97	121.97
36	1	282	G	C2'-C3'-O3'	5.55	122.02	113.70
51	m5	183	THR	CA-C-N	5.54	132.13	121.54
51	m5	183	THR	C-N-CA	5.54	132.13	121.54
33	E1	102	VAL	CA-C-N	-5.53	112.59	122.32
33	E1	102	VAL	C-N-CA	-5.53	112.59	122.32
43	l6	67	GLY	C-N-CD	-5.52	108.45	120.60
42	L5	258	LYS	N-CA-C	5.51	122.54	110.80
44	l7	227	GLY	CA-C-N	5.44	131.94	121.54
44	l7	227	GLY	C-N-CA	5.44	131.94	121.54
19	C7	85	VAL	CA-C-N	5.43	126.62	119.84
19	C7	85	VAL	C-N-CA	5.43	126.62	119.84
15	C3	22	ALA	C-N-CD	-5.38	108.76	120.60
28	d6	61	GLU	CA-C-N	5.36	131.78	121.54
28	d6	61	GLU	C-N-CA	5.36	131.78	121.54
53	M7	157	VAL	CA-C-N	5.35	131.75	121.54
53	M7	157	VAL	C-N-CA	5.35	131.75	121.54
22	D0	118	VAL	CA-C-N	5.34	131.75	121.54
22	D0	118	VAL	C-N-CA	5.34	131.75	121.54
33	e1	102	VAL	CA-C-N	5.31	131.68	121.54
33	e1	102	VAL	C-N-CA	5.31	131.68	121.54
49	m3	140	SER	CA-C-N	5.30	131.67	121.54
49	m3	140	SER	C-N-CA	5.30	131.67	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	L3	4	ARG	CA-C-N	5.26	131.59	121.54
40	L3	4	ARG	C-N-CA	5.26	131.59	121.54
60	N4	79	GLN	CA-C-N	5.26	134.64	121.80
60	N4	79	GLN	C-N-CA	5.26	134.64	121.80
8	s6	174	LYS	N-CA-C	-5.26	99.59	110.80
12	c0	82	LEU	CA-C-N	5.26	126.42	119.84
12	c0	82	LEU	C-N-CA	5.26	126.42	119.84
1	2	1761	U	P-O3'-C3'	5.26	128.09	120.20
6	S4	194	THR	N-CA-C	5.24	121.68	113.72
33	e1	87	THR	C-N-CD	-5.23	103.56	125.00
9	S7	63	PRO	CA-C-N	5.23	131.80	122.13
9	S7	63	PRO	C-N-CA	5.23	131.80	122.13
33	E1	85	TYR	CA-CB-CG	5.20	123.25	113.90
18	C6	112	TYR	CA-C-N	5.17	131.41	121.54
18	C6	112	TYR	C-N-CA	5.17	131.41	121.54
9	s7	111	LYS	CB-CA-C	-5.17	109.64	115.79
73	o7	39	TYR	CA-C-N	5.16	139.37	127.00
73	o7	39	TYR	C-N-CA	5.16	139.37	127.00
22	d0	17	GLN	CA-C-N	5.14	131.36	121.54
22	d0	17	GLN	C-N-CA	5.14	131.36	121.54
13	C1	4	GLU	CA-C-N	5.14	131.36	121.54
13	C1	4	GLU	C-N-CA	5.14	131.36	121.54
64	n8	47	LYS	CA-C-N	5.12	131.32	121.54
64	n8	47	LYS	C-N-CA	5.12	131.32	121.54
43	l6	130	ILE	N-CA-C	-5.10	98.74	109.34
72	o6	62	ARG	CA-C-N	5.06	131.21	121.54
72	o6	62	ARG	C-N-CA	5.06	131.21	121.54
34	sR	160	GLU	CA-C-N	5.04	132.88	121.53
34	sR	160	GLU	C-N-CA	5.04	132.88	121.53
48	m1	112	LEU	CA-CB-CG	5.04	133.96	116.30
2	s0	102	PHE	CA-C-N	5.04	134.10	121.80
2	s0	102	PHE	C-N-CA	5.04	134.10	121.80
9	S7	64	VAL	N-CA-CB	5.04	118.26	111.21
3	s1	25	THR	CA-C-N	5.04	131.16	121.54
3	s1	25	THR	C-N-CA	5.04	131.16	121.54
24	d2	57	ARG	N-CA-C	5.03	116.79	108.48
36	1	1329	U	C4'-C3'-O3'	5.03	116.94	109.40
49	M3	61	PRO	CA-C-N	5.02	131.13	121.54
49	M3	61	PRO	C-N-CA	5.02	131.13	121.54
36	1	406	G	O4'-C1'-N9	5.00	115.70	108.20

There are no chirality outliers.

All (126) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	C4	123	SER	Peptide
16	C4	38	THR	Peptide
16	C4	49	LYS	Peptide
17	C5	124	THR	Peptide
17	C5	27	GLU	Peptide
18	C6	113	ASP	Peptide
18	C6	40	GLU	Peptide
19	C7	85	VAL	Peptide
22	D0	73	GLY	Peptide
24	D2	54	ASP	Peptide
25	D3	137	LYS	Peptide
26	D4	46	GLU	Peptide
27	D5	54	VAL	Peptide
27	D5	94	LYS	Peptide
28	D6	10	ARG	Peptide
28	D6	84	VAL	Peptide
33	E1	101	ALA	Peptide
33	E1	143	LYS	Peptide
33	E1	146	SER	Peptide
41	L4	83	GLY	Peptide
42	L5	232	ASP	Peptide
42	L5	251	PRO	Peptide
42	L5	7	ALA	Peptide
45	L8	24	ASN	Peptide
45	L8	74	THR	Peptide
46	L9	108	GLY	Peptide
49	M3	130	GLY	Peptide
50	M4	8	LYS	Peptide
51	M5	186	GLY	Peptide
52	M6	110	PRO	Peptide
56	N0	12	ARG	Peptide
56	N0	133	ALA	Peptide
56	N0	22	PRO	Peptide
57	N1	16	GLN	Peptide
60	N4	80	ARG	Peptide
60	N4	96	LEU	Peptide
65	N9	20	GLY	Peptide
79	Q3	49	ARG	Peptide
2	S0	94	GLY	Peptide
3	S1	131	ASP	Peptide
4	S2	106	ASP	Peptide
5	S3	219	ALA	Peptide

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Mol	Chain	Res	Type	Group
6	S4	57	ASN	Peptide
7	S5	100	ASN	Peptide
7	S5	44	ASN	Peptide
7	S5	65	ARG	Peptide
9	S7	131	PHE	Peptide
9	S7	29	ASN	Peptide
10	S8	146	ARG	Peptide
10	S8	147	ALA	Peptide
14	c2	101	ALA	Peptide
15	c3	59	GLY	Peptide
16	c4	125	SER	Peptide
16	c4	90	ARG	Peptide
17	c5	124	THR	Peptide
17	c5	50	THR	Peptide
17	c5	52	LYS	Peptide
18	c6	115	THR	Peptide
18	c6	40	GLU	Peptide
19	c7	66	VAL	Peptide
19	c7	87	GLU	Peptide
19	c7	96	SER	Peptide
20	c8	90	ASN	Peptide
22	d0	70	THR	Peptide
23	d1	43	GLY	Peptide
24	d2	54	ASP	Peptide
25	d3	44	GLY	Peptide
26	d4	35	VAL	Peptide
27	d5	69	LEU	Peptide
27	d5	86	GLU	Peptide
32	e0	51	ASN	Peptide
33	e1	128	ALA	Peptide
33	e1	135	HIS	Peptide
33	e1	87	THR	Peptide
39	l2	171	GLY	Peptide
40	l3	141	GLY	Peptide
40	l3	2	SER	Peptide
41	l4	300	ARG	Peptide
42	l5	268	GLU	Peptide
42	l5	269	SER	Peptide
42	l5	270	LYS	Peptide
43	l6	129	GLU	Peptide
44	l7	192	GLY	Peptide
81	l8	24	ASN	Peptide

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Mol	Chain	Res	Type	Group
48	m1	8	PRO	Peptide
82	m2	103	UNK	Peptide
82	m2	117	UNK	Peptide
82	m2	55	UNK	Peptide
82	m2	56	UNK	Peptide
82	m2	59	UNK	Peptide
49	m3	133	PRO	Peptide
50	m4	20	VAL	Peptide
51	m5	181	ASN	Peptide
52	m6	109	PRO	Peptide
53	m7	119	VAL	Peptide
56	n0	133	ALA	Peptide
56	n0	86	GLY	Peptide
58	n2	51	GLY	Peptide
63	n7	124	ALA	Peptide
63	n7	4	PHE	Peptide
64	n8	66	ALA	Peptide
65	n9	19	ASN	Peptide
66	o0	99	ASP	Peptide
67	o1	90	PHE	Peptide
70	o4	80	ARG	Peptide
71	o5	118	ILE	Peptide
79	q3	49	ARG	Peptide
2	s0	187	ALA	Peptide
2	s0	206	ASP	Peptide
2	s0	94	GLY	Peptide
3	s1	222	LYS	Peptide
4	s2	106	ASP	Peptide
4	s2	91	ARG	Peptide
5	s3	219	ALA	Peptide
7	s5	206	SER	Peptide
7	s5	44	ASN	Peptide
7	s5	54	LYS	Peptide
7	s5	99	MET	Peptide
9	s7	130	VAL	Peptide
9	s7	29	ASN	Peptide
9	s7	64	VAL	Peptide
10	s8	60	ILE	Peptide
11	s9	89	ASP	Peptide
80	sM	165	UNK	Peptide
80	sM	169	UNK	Peptide
34	sR	161	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	37948	0	19094	801	1
1	6	38238	0	19240	757	0
2	S0	1577	0	1567	67	0
2	s0	1583	0	1578	76	0
3	S1	1709	0	1784	104	0
3	s1	1722	0	1793	55	0
4	S2	1635	0	1723	84	0
4	s2	1635	0	1723	61	0
5	S3	1734	0	1817	56	0
5	s3	1734	0	1817	56	0
6	S4	2068	0	2154	66	0
6	s4	2068	0	2154	88	0
7	S5	1609	0	1675	85	0
7	s5	1609	0	1675	76	0
8	S6	1799	0	1878	54	0
8	s6	1755	0	1846	55	0
9	S7	1481	0	1572	60	0
9	s7	1491	0	1578	46	0
10	S8	1489	0	1525	65	0
10	s8	1489	0	1525	58	0
11	S9	1494	0	1573	51	0
11	s9	1494	0	1573	77	0
12	C0	772	0	727	37	0
12	c0	761	0	697	28	0
13	C1	1213	0	1257	42	0
13	c1	1168	0	1233	37	0
14	C2	890	0	887	34	0
14	c2	890	0	887	32	0
15	C3	1192	0	1255	34	0
15	c3	1192	0	1255	30	0
16	C4	891	0	883	42	0
16	c4	949	0	985	40	0
17	C5	977	0	1002	34	0
17	c5	1039	0	1050	56	0
18	C6	1105	0	1166	61	0
18	c6	1111	0	1171	55	0
19	C7	926	0	930	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	c7	906	0	909	32	0
20	C8	1192	0	1222	57	0
20	c8	1192	0	1222	64	0
21	C9	1112	0	1124	48	0
21	c9	1112	0	1124	35	0
22	D0	855	0	917	38	0
22	d0	882	0	939	36	0
23	D1	684	0	672	30	0
23	d1	684	0	672	41	0
24	D2	1021	0	1060	42	0
24	d2	1021	0	1060	33	0
25	D3	1121	0	1196	43	0
25	d3	1121	0	1196	29	0
26	D4	1073	0	1132	37	0
26	d4	1073	0	1132	44	0
27	D5	563	0	603	42	0
27	d5	558	0	598	37	0
28	D6	769	0	814	52	0
28	d6	769	0	814	35	0
29	D7	610	0	633	20	0
29	d7	610	0	633	20	0
30	D8	497	0	535	25	0
30	d8	497	0	535	23	0
31	D9	442	0	428	18	0
31	d9	442	0	430	14	0
32	E0	475	0	525	14	0
32	e0	491	0	542	24	0
33	E1	566	0	602	24	0
33	e1	608	0	658	36	0
34	SR	2437	0	2386	70	0
34	sR	2438	0	2381	84	0
35	SM	1104	0	969	42	0
36	1	67355	0	33847	1183	1
36	5	67376	0	33859	1137	1
37	3	2579	0	1304	51	0
37	7	2579	0	1304	49	0
38	4	3353	0	1695	71	0
38	8	3353	0	1695	60	0
39	L2	1914	0	1981	71	0
39	l2	1912	0	1976	84	0
40	L3	3075	0	3142	115	0
40	l3	3075	0	3142	125	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	L4	2748	0	2859	114	0
41	l4	2748	0	2859	108	0
42	L5	2375	0	2325	103	0
42	l5	2359	0	2311	88	0
43	L6	1239	0	1326	30	0
43	l6	1248	0	1339	33	0
44	L7	1784	0	1862	62	0
44	l7	1791	0	1869	65	0
45	L8	1804	0	1877	64	0
46	L9	1518	0	1587	71	0
46	l9	1518	0	1587	52	0
47	M0	1705	0	1736	54	0
47	m0	1722	0	1755	67	0
48	M1	1353	0	1383	51	0
48	m1	1353	0	1383	41	0
49	M3	1543	0	1608	66	0
49	m3	1548	0	1613	66	0
50	M4	1053	0	1149	38	0
50	m4	1059	0	1154	25	0
51	M5	1720	0	1779	66	0
51	m5	1720	0	1779	63	0
52	M6	1555	0	1659	40	0
52	m6	1555	0	1659	50	0
53	M7	1420	0	1437	59	0
53	m7	1227	0	1236	41	0
54	M8	1441	0	1543	45	0
54	m8	1441	0	1543	49	0
55	M9	1521	0	1617	55	0
55	m9	1521	0	1617	31	0
56	N0	1445	0	1487	49	0
56	n0	1445	0	1487	33	0
57	N1	1276	0	1323	56	0
57	n1	1276	0	1323	44	0
58	N2	796	0	812	15	0
58	n2	778	0	791	15	0
59	N3	1003	0	1048	28	0
59	n3	1003	0	1048	40	0
60	N4	699	0	640	13	0
61	N5	964	0	1025	29	0
61	n5	959	0	1023	32	0
62	N6	993	0	1081	38	0
62	n6	993	0	1081	38	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
63	N7	1092	0	1155	48	0
63	n7	1092	0	1155	39	0
64	N8	1173	0	1215	41	0
64	n8	1173	0	1215	61	0
65	N9	462	0	491	13	0
65	n9	462	0	491	17	0
66	O0	743	0	797	33	0
66	o0	767	0	816	23	0
67	O1	876	0	912	22	0
67	o1	883	0	918	24	0
68	O2	1020	0	1090	36	0
68	o2	1020	0	1090	42	0
69	O3	850	0	880	30	0
69	o3	850	0	880	26	0
70	O4	880	0	945	25	0
70	o4	880	0	945	44	0
71	O5	969	0	1078	32	0
71	o5	965	0	1067	40	0
72	O6	771	0	849	31	0
72	o6	770	0	846	36	0
73	O7	681	0	682	22	0
73	o7	681	0	683	23	0
74	O8	612	0	682	12	0
74	o8	608	0	671	21	0
75	O9	436	0	475	17	0
75	o9	436	0	475	16	0
76	Q0	417	0	455	20	0
76	q0	417	0	455	10	0
77	Q1	233	0	284	6	0
77	q1	233	0	284	9	0
78	Q2	847	0	916	18	0
78	q2	847	0	918	25	0
79	Q3	694	0	735	25	0
79	q3	694	0	734	21	0
80	sM	680	0	538	34	0
81	l8	1763	0	1819	60	0
82	m2	750	0	167	7	0
83	n4	1038	0	1071	20	0
84	p0	1077	0	1041	23	0
85	p1	235	0	49	3	0
85	p2	230	0	49	0	0
86	1	2184	0	0	179	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	2	896	0	0	89	0
86	3	56	0	0	2	0
86	4	105	0	0	9	0
86	5	2268	0	0	198	0
86	6	959	0	0	100	0
86	7	77	0	0	3	0
86	8	105	0	0	10	0
86	C1	7	0	0	0	0
86	C3	7	0	0	1	0
86	C5	7	0	0	2	0
86	C8	7	0	0	0	1
86	L3	14	0	0	1	0
86	L4	7	0	0	2	0
86	M0	7	0	0	1	0
86	M5	7	0	0	0	0
86	M7	7	0	0	0	0
86	M9	7	0	0	1	0
86	N9	7	0	0	1	0
86	O1	7	0	0	5	0
86	O3	7	0	0	2	0
86	Q2	7	0	0	1	0
86	S8	7	0	0	1	0
86	S9	7	0	0	2	0
86	SR	7	0	0	1	0
86	c3	7	0	0	0	0
86	c5	7	0	0	3	0
86	c8	7	0	0	0	0
86	l3	14	0	0	2	0
86	l4	7	0	0	1	0
86	l5	14	0	0	2	0
86	l9	7	0	0	0	0
86	m0	14	0	0	2	0
86	m4	7	0	0	0	0
86	m5	7	0	0	0	0
86	m6	7	0	0	1	0
86	n1	7	0	0	1	0
86	n3	14	0	0	3	0
86	n9	7	0	0	1	0
86	o3	7	0	0	1	0
86	o7	7	0	0	1	0
86	q2	7	0	0	3	0
86	s4	7	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	s8	7	0	0	1	0
86	s9	7	0	0	2	0
86	sR	7	0	0	0	0
87	1	353	0	0	0	0
87	2	91	0	0	0	0
87	3	8	0	0	0	0
87	4	17	0	0	0	0
87	5	383	0	0	0	0
87	6	98	0	0	0	0
87	7	11	0	0	0	0
87	8	9	0	0	0	0
87	D3	1	0	0	0	0
87	L2	2	0	0	0	0
87	L3	1	0	0	0	0
87	L4	1	0	0	0	0
87	L7	3	0	0	0	0
87	M0	1	0	0	0	0
87	M3	2	0	0	0	0
87	M5	2	0	0	0	0
87	M7	3	0	0	0	0
87	M9	1	0	0	0	0
87	N3	1	0	0	0	0
87	N8	2	0	0	0	0
87	O2	1	0	0	0	0
87	O7	1	0	0	0	0
87	Q2	1	0	0	0	0
87	S2	1	0	0	0	0
87	c1	1	0	0	0	0
87	c6	1	0	0	0	0
87	d3	1	0	0	0	0
87	d6	1	0	0	0	0
87	l2	3	0	0	0	0
87	l3	1	0	0	0	0
87	m5	3	0	0	0	0
87	m7	2	0	0	0	0
87	n3	1	0	0	0	0
87	n6	2	0	0	0	0
87	n8	2	0	0	0	0
87	n9	1	0	0	0	0
87	o7	2	0	0	0	0
87	q0	1	0	0	0	0
87	q1	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	q2	1	0	0	0	0
87	sM	1	0	0	0	0
88	D6	1	0	0	0	0
88	D7	1	0	0	0	0
88	D9	1	0	0	0	0
88	E1	1	0	0	0	0
88	O7	1	0	0	0	0
88	Q0	1	0	0	0	0
88	Q2	1	0	0	0	0
88	Q3	1	0	0	0	0
88	d6	1	0	0	0	0
88	d7	1	0	0	0	0
88	d9	1	0	0	0	0
88	e1	1	0	0	0	0
88	o7	1	0	0	0	0
88	q0	1	0	0	0	0
88	q2	1	0	0	0	0
88	q3	1	0	0	0	0
89	6	30	0	28	0	0
All	All	410475	0	297523	9215	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 13.

All (9215) 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)
9:s7:64:VAL:HG22	9:s7:94:ALA:HB1	1.35	1.08
50:m4:48:GLY:HA3	50:m4:53:VAL:HB	1.35	1.05
1:2:702:G:HO2'	1:2:703:G:H8	1.00	0.99
40:l3:41:VAL:HA	40:l3:185:GLY:HA3	1.45	0.98
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.43	0.97
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.45	0.96
20:c8:120:ARG:HG2	80:sM:61:ILE:HG21	1.47	0.96
1:6:653:C:H42	1:6:677:G:H1	1.14	0.94
86:6:2009:OHX:N2	25:d3:64:PRO:O	2.00	0.94
4:S2:81:MET:HE1	4:S2:186:LYS:HB3	1.51	0.92
40:l3:296:THR:HG22	40:l3:298:PHE:H	1.31	0.92
1:2:1339:C:O2'	1:2:1341:A:N7	2.03	0.92
7:s5:94:THR:HG22	7:s5:114:ILE:HG13	1.50	0.92
47:m0:86:HIS:HB3	47:m0:139:ARG:HG2	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:m7:69:ARG:HG2	53:m7:79:THR:HG23	1.52	0.91
36:5:1239:C:H42	36:5:1249:G:H1	1.18	0.91
36:1:2550:U:H6	45:L8:37:GLY:HA3	1.35	0.91
36:5:1639:C:OP2	70:o4:74:ARG:NH2	2.03	0.91
36:1:1639:C:OP2	70:O4:74:ARG:NH2	2.04	0.91
36:5:2853:A:H5'	47:m0:63:GLU:HB2	1.50	0.91
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.36	0.90
50:M4:48:GLY:HA3	50:M4:53:VAL:HG13	1.52	0.90
40:l3:185:GLY:O	40:l3:191:LYS:NZ	2.05	0.90
36:5:3214:U:OP2	50:m4:128:ARG:NH2	2.03	0.90
36:1:1951:C:H42	36:1:2095:G:H1	1.19	0.90
46:L9:49:ASN:O	46:L9:51:GLN:N	2.05	0.90
19:c7:27:ASP:O	19:c7:31:ASN:ND2	2.03	0.89
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.04	0.89
36:5:2705:A:OP2	86:5:3401:OHX:N2	2.05	0.89
86:5:3682:OHX:N2	72:o6:28:TYR:O	2.05	0.89
42:l5:76:ALA:HB3	42:l5:109:THR:HG22	1.50	0.89
36:5:3274:A:H3'	36:5:3275:U:H5"	1.53	0.89
36:5:3194:C:O2	36:5:3197:G:N2	2.06	0.89
1:6:1552:U:OP2	17:c5:43:ARG:NH2	2.06	0.88
1:6:1588:G:H1	1:6:1608:U:H3	1.20	0.88
36:1:2392:C:O2'	40:L3:266:ARG:NH2	2.06	0.88
42:L5:40:HIS:HD2	42:L5:42:ALA:H	1.21	0.88
5:S3:164:VAL:HG13	5:S3:168:ILE:HD11	1.55	0.87
36:1:1581:C:H2'	36:1:1582:C:H5"	1.56	0.87
57:N1:39:ILE:HD11	57:N1:102:ARG:HD2	1.56	0.87
36:1:2960:C:OP1	86:1:3539:OHX:N4	2.08	0.86
36:1:3087:A:OP1	86:1:3701:OHX:N5	2.08	0.86
49:M3:180:ARG:HD3	72:O6:11:LEU:HD21	1.57	0.86
33:e1:126:CYS:HB3	33:e1:130:VAL:HG21	1.57	0.86
36:5:535:G:O6	86:5:3585:OHX:N2	2.08	0.86
36:1:978:G:O2'	36:1:979:U:O2	1.93	0.86
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.41	0.86
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.07	0.86
5:S3:178:ARG:HE	5:S3:178:ARG:H	1.20	0.85
38:4:150:G:N7	86:4:208:OHX:N4	2.24	0.85
36:5:1824:U:OP1	74:o8:3:ARG:NH2	2.09	0.85
1:2:701:U:H3	1:2:737:A:H61	1.25	0.85
53:m7:31:GLU:HG3	53:m7:60:PHE:HA	1.56	0.85
1:6:448:C:OP2	6:s4:49:ARG:NH1	2.09	0.85
44:l7:158:LYS:HD2	44:l7:159:GLN:H	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2535:A:H61	36:1:2544:U:H3	1.24	0.84
15:C3:72:MET:HE1	15:C3:82:PRO:HD2	1.60	0.84
71:O5:101:THR:HG22	71:O5:104:GLN:H	1.42	0.84
36:1:3042:U:OP2	36:1:3092:C:N4	2.10	0.84
39:l2:238:ILE:O	39:l2:240:ALA:N	2.09	0.84
1:6:485:A:N6	1:6:502:U:O4	2.10	0.84
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.11	0.84
7:s5:57:SER:HB2	30:d8:53:ILE:HB	1.58	0.84
36:5:284:A:OP2	78:q2:41:ARG:NH1	2.10	0.84
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.10	0.84
36:5:2181:C:OP1	39:l2:193:ARG:NH2	2.10	0.84
36:1:2208:A:N1	86:1:3581:OHX:N4	2.25	0.83
10:s8:34:ALA:HB2	10:s8:56:ARG:HD3	1.58	0.83
36:5:266:A:H2'	72:o6:30:LYS:HE3	1.60	0.83
1:2:434:G:N7	86:2:1926:OHX:N4	2.26	0.83
1:6:1765:A:OP1	86:6:1980:OHX:N2	2.12	0.83
1:2:702:G:O6	1:2:736:C:N4	2.11	0.83
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.58	0.83
36:5:18:G:OP1	71:o5:81:ARG:NH2	2.11	0.83
47:m0:36:LEU:HD21	47:m0:69:ARG:HD3	1.61	0.83
59:n3:48:ARG:HH11	59:n3:48:ARG:HG3	1.42	0.83
71:O5:85:THR:HG22	71:O5:88:LEU:H	1.44	0.83
1:6:149:C:OP1	26:d4:121:THR:OG1	1.97	0.83
1:2:1559:A:H5"	20:C8:135:GLY:HA3	1.61	0.83
10:S8:122:GLY:O	86:S8:301:OHX:N6	2.12	0.83
40:L3:232:ARG:NH1	40:L3:269:GLN:O	2.09	0.83
33:e1:91:ILE:HG12	33:e1:92:LYS:HG2	1.61	0.83
1:2:992:A:OP1	86:2:1913:OHX:N2	2.12	0.82
23:D1:74:GLN:NE2	23:D1:81:ASN:O	2.11	0.82
1:6:729:G:N7	86:6:1955:OHX:N1	2.27	0.82
81:l8:70:LYS:HA	81:l8:235:GLY:HA3	1.60	0.82
36:1:2794:G:N7	86:1:3472:OHX:N2	2.26	0.82
36:1:3166:C:H42	36:1:3284:G:H1	1.26	0.82
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	1.60	0.82
1:6:453:U:O4	86:6:1917:OHX:N4	2.11	0.82
1:2:1585:U:H3	1:2:1611:A:H2	1.26	0.82
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.60	0.82
38:4:135:G:OP2	61:N5:56:ARG:NH2	2.13	0.82
72:O6:58:ILE:HG22	72:O6:90:MET:HG3	1.59	0.82
78:Q2:2:VAL:N	78:Q2:90:HIS:O	2.12	0.82
4:S2:140:ARG:NH1	23:D1:1:MET:SD	2.53	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.12	0.82
36:1:2550:U:C6	45:L8:37:GLY:HA3	2.15	0.82
1:2:40:A:O2'	86:2:1960:OHX:N5	2.11	0.82
1:2:1588:G:H1	1:2:1608:U:H3	1.24	0.82
67:o1:19:ARG:HD3	67:o1:35:GLU:HG3	1.59	0.82
34:SR:85:TRP:HA	34:SR:109:ASP:HB3	1.61	0.82
36:1:283:G:OP1	78:Q2:45:ARG:NH2	2.13	0.82
71:O5:78:LYS:HA	71:O5:81:ARG:HD3	1.61	0.82
1:6:339:C:OP2	10:s8:10:LYS:NZ	2.13	0.82
11:S9:110:GLN:HE22	11:S9:126:ARG:HG2	1.44	0.82
2:s0:66:ALA:HB2	23:d1:37:ALA:HB2	1.62	0.82
1:2:142:G:H22	1:2:173:A:H2	1.25	0.82
11:s9:8:TYR:O	86:s9:201:OHX:N4	2.13	0.82
33:e1:88:PRO:HB2	33:e1:89:LYS:HD3	1.61	0.82
36:1:979:U:H1'	36:1:980:A:C8	2.14	0.81
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.14	0.81
36:5:3153:U:H4'	36:5:3154:C:H5'	1.62	0.81
63:n7:52:LYS:O	63:n7:65:ARG:NH1	2.13	0.81
36:1:3118:C:H4'	76:Q0:106:ARG:HH22	1.45	0.81
1:6:987:G:N7	86:6:1973:OHX:N6	2.29	0.81
36:5:31:C:OP2	51:m5:188:ARG:NH2	2.12	0.81
47:m0:216:TYR:O	86:m0:301:OHX:N4	2.12	0.81
36:1:371:G:O6	86:1:3700:OHX:N4	2.14	0.81
51:M5:110:ALA:HB1	51:M5:113:LEU:HD23	1.60	0.81
23:D1:40:ASP:HB3	23:D1:46:ILE:HD11	1.61	0.81
36:1:1841:A:H2	75:O9:45:ARG:HH22	1.26	0.81
36:5:3182:G:OP1	52:m6:160:ARG:NH2	2.13	0.81
21:C9:117:SER:HB2	21:C9:123:ARG:HB2	1.63	0.81
36:1:1806:A:OP2	86:1:3519:OHX:N4	2.14	0.81
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.14	0.81
36:5:1192:C:N4	36:5:1301:A:O2'	2.13	0.81
36:1:3195:U:O2'	36:1:3197:G:N2	2.14	0.81
39:l2:189:TYR:HA	39:l2:192:LYS:HG3	1.62	0.81
36:5:2836:C:H5	36:5:2852:C:H42	1.27	0.81
2:S0:162:CYS:SG	2:S0:163:ASN:N	2.54	0.81
24:D2:82:LYS:O	24:D2:84:GLY:N	2.12	0.81
1:6:75:U:O2'	1:6:76:A:O5'	1.98	0.81
1:6:1086:A:H5'	4:s2:164:SER:HB3	1.61	0.81
1:2:1535:U:O2'	1:2:1536:G:N3	2.14	0.80
41:l4:204:GLY:O	41:l4:246:ARG:NH1	2.14	0.80
49:m3:47:ALA:HB1	49:m3:48:PRO:HD2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1615:C:OP1	86:1:3699:OHX:N3	2.14	0.80
22:d0:69:LYS:HE2	22:d0:80:GLU:HG3	1.63	0.80
36:1:2177:G:OP2	39:L2:128:ARG:NH1	2.13	0.80
1:2:320:U:H3'	1:2:321:C:H5"	1.61	0.80
1:2:1203:A:OP2	86:2:1984:OHX:N5	2.15	0.80
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.64	0.80
17:c5:68:PRO:O	86:c5:201:OHX:N5	2.14	0.80
12:C0:16:PHE:HD2	12:C0:76:LEU:HD23	1.47	0.80
36:1:1345:G:N7	86:1:3498:OHX:N4	2.29	0.80
2:s0:124:THR:HG22	2:s0:174:TRP:HE1	1.47	0.80
1:2:1592:A:H2'	1:2:1593:A:H8	1.47	0.80
1:6:1429:G:H1'	22:d0:74:GLU:HG2	1.64	0.80
1:2:895:G:H1	1:2:917:U:H3	1.29	0.80
13:c1:33:ARG:NH2	13:c1:51:GLY:O	2.15	0.79
13:c1:132:SER:O	13:c1:134:THR:N	2.14	0.79
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.15	0.79
1:6:1202:A:OP1	86:6:1983:OHX:N2	2.16	0.79
51:m5:68:ARG:HA	51:m5:98:LEU:HD21	1.63	0.79
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.16	0.79
36:1:2187:G:OP2	86:1:3539:OHX:N5	2.15	0.79
1:6:868:G:H1	1:6:960:U:H3	1.27	0.79
1:6:901:G:N2	16:c4:54:GLU:OE1	2.16	0.79
1:6:921:U:O4	86:6:2025:OHX:N3	2.16	0.79
21:C9:57:ARG:HH21	21:C9:80:TYR:HB3	1.47	0.79
36:1:3343:G:H21	36:1:3362:A:H2	1.29	0.79
1:6:1385:G:N7	86:6:1975:OHX:N6	2.30	0.79
1:2:9:U:O4	86:2:2020:OHX:N6	2.14	0.79
6:S4:57:ASN:HB2	6:S4:60:GLU:H	1.48	0.79
1:6:918:U:H2'	1:6:919:A:H8	1.47	0.79
36:5:3241:G:H2'	36:5:3245:A:C8	2.17	0.79
47:m0:129:VAL:HG13	47:m0:133:GLN:HG2	1.65	0.79
50:m4:55:ARG:NH2	50:m4:76:ALA:O	2.15	0.79
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.64	0.79
73:O7:21:ARG:NH2	73:O7:41:ALA:O	2.16	0.79
1:6:205:U:O4	86:6:1982:OHX:N6	2.16	0.79
36:5:604:G:N7	86:5:3664:OHX:N2	2.31	0.79
36:5:2273:G:O6	86:5:3691:OHX:N5	2.16	0.79
36:5:3192:U:O4	86:5:3641:OHX:N6	2.15	0.79
1:2:365:G:N7	86:2:1980:OHX:N5	2.31	0.79
36:5:679:U:O4	86:5:3517:OHX:N2	2.16	0.79
36:1:1427:U:OP2	64:N8:4:ARG:NH2	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:2:SER:HA	59:n3:56:ASP:HA	1.64	0.79
1:6:1098:U:OP2	4:s2:168:ARG:NE	2.15	0.78
1:6:1230:A:H2	1:6:1255:G:H21	1.29	0.78
36:5:2263:C:OP1	86:5:3457:OHX:N2	2.16	0.78
26:D4:14:SER:HB2	26:D4:21:LYS:HE3	1.65	0.78
63:N7:26:VAL:HG11	63:N7:96:VAL:HB	1.65	0.78
36:5:1471:U:OP1	55:m9:5:ARG:NH2	2.16	0.78
36:1:2310:U:OP1	86:1:3665:OHX:N1	2.16	0.78
36:1:2402:A:OP2	86:1:3621:OHX:N6	2.15	0.78
3:S1:147:ALA:O	3:S1:148:ASN:ND2	2.16	0.78
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.16	0.78
36:1:2717:U:OP1	86:1:3520:OHX:N6	2.17	0.78
53:M7:168:LEU:HB2	53:M7:172:GLN:HB3	1.66	0.78
1:6:1203:A:OP2	86:6:1983:OHX:N4	2.16	0.78
1:2:1291:G:N2	1:2:1324:G:H22	1.81	0.78
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.55	0.78
36:1:2836:C:H5	36:1:2852:C:H42	1.31	0.78
1:6:228:G:H1	1:6:236:A:H61	1.28	0.78
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.64	0.78
10:s8:62:THR:HA	10:s8:76:THR:O	1.84	0.78
36:5:3241:G:H2'	36:5:3245:A:H8	1.47	0.78
45:L8:36:ILE:HG22	45:L8:37:GLY:H	1.49	0.78
33:e1:90:LYS:HB2	33:e1:93:HIS:HE1	1.49	0.78
36:5:1171:G:N7	86:5:3504:OHX:N1	2.31	0.78
9:S7:51:VAL:HG12	9:S7:53:GLY:H	1.48	0.78
5:s3:40:ARG:HG2	22:d0:110:PRO:HB3	1.66	0.78
36:5:2897:A:H2'	36:5:2899:C:H5"	1.66	0.78
71:o5:85:THR:HG22	71:o5:88:LEU:H	1.49	0.78
1:2:484:C:H42	1:2:503:G:H22	1.31	0.77
41:l4:339:LEU:HA	41:l4:342:LYS:HB3	1.64	0.77
35:SM:34:LYS:NZ	36:1:2707:C:OP1	2.17	0.77
36:1:1898:G:OP2	86:1:3469:OHX:N4	2.16	0.77
21:c9:16:ASN:OD1	21:c9:56:LYS:NZ	2.17	0.77
1:2:190:C:N4	1:2:196:G:O6	2.17	0.77
1:2:693:U:H5'	1:2:694:U:H5'	1.66	0.77
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.65	0.77
3:S1:63:GLY:HA2	3:S1:88:VAL:O	1.84	0.77
86:1:3496:OHX:N3	44:L7:217:PRO:O	2.17	0.77
44:l7:216:VAL:HG11	44:l7:227:GLY:HA3	1.65	0.77
10:S8:8:ARG:HD3	10:S8:21:PHE:H	1.50	0.77
36:1:3344:A:H2	36:1:3361:G:H21	1.30	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:5:3593:OHX:N1	38:8:18:U:OP1	2.18	0.77
42:l5:211:LEU:HB3	42:l5:219:PHE:HB2	1.66	0.77
63:n7:3:LYS:HE3	63:n7:5:LEU:HD11	1.65	0.77
76:q0:127:LEU:HD22	76:q0:128:LYS:HG3	1.66	0.77
6:S4:13:ALA:O	6:S4:39:ARG:NH2	2.18	0.77
33:E1:108:VAL:HG22	33:E1:114:VAL:HG22	1.67	0.77
36:1:2169:G:O6	86:1:3450:OHX:N4	2.16	0.77
6:s4:105:VAL:HG21	6:s4:245:LYS:H	1.49	0.77
36:5:510:G:O6	86:5:3525:OHX:N2	2.17	0.77
36:1:2513:U:HO2'	36:1:2592:G:H1	1.29	0.77
86:1:3701:OHX:N5	40:L3:364:LYS:O	2.17	0.77
53:M7:116:HIS:HB3	53:M7:149:VAL:HG13	1.66	0.77
60:N4:39:LEU:HD12	60:N4:44:LYS:HG3	1.67	0.77
54:m8:100:THR:HG22	54:m8:120:GLU:HB3	1.67	0.77
47:M0:142:ASP:OD1	47:M0:178:ARG:NH2	2.17	0.76
36:5:837:A:OP2	79:q3:4:ARG:NH1	2.18	0.76
36:5:3242:G:H5'	36:5:3245:A:C8	2.20	0.76
18:c6:93:HIS:HA	18:c6:97:VAL:HG13	1.67	0.76
36:5:1097:G:OP1	57:n1:129:LYS:NZ	2.18	0.76
36:5:1555:U:O4	36:5:1557:A:N6	2.18	0.76
37:7:76:A:O2'	56:n0:50:LYS:NZ	2.19	0.76
48:m1:60:ARG:NH1	78:q2:104:LEU:O	2.12	0.76
20:C8:83:ALA:HA	20:C8:86:LEU:HD22	1.66	0.76
36:1:1915:A:H5"	55:M9:84:THR:HG22	1.67	0.76
1:6:1330:G:H21	19:c7:8:THR:HG21	1.50	0.76
36:5:2120:A:OP2	86:5:3572:OHX:N4	2.18	0.76
36:1:330:G:OP2	86:1:3580:OHX:N2	2.19	0.76
44:L7:158:LYS:HE2	44:L7:159:GLN:H	1.50	0.76
1:6:1502:G:N7	21:c9:102:ARG:NH2	2.32	0.76
1:6:1636:C:H4'	1:6:1637:C:H5'	1.66	0.76
36:1:517:G:P	44:L7:60:ARG:HH22	2.09	0.76
39:L2:204:MET:HE2	39:L2:209:HIS:HB2	1.67	0.76
1:6:1492:A:HO2'	1:6:1493:A:H8	1.34	0.76
40:l3:169:THR:HG23	40:l3:171:LEU:H	1.51	0.76
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.67	0.76
36:1:1171:G:N7	86:1:3496:OHX:N5	2.34	0.76
56:N0:77:VAL:HG13	56:N0:126:VAL:HG22	1.68	0.76
1:6:1241:G:OP2	17:c5:77:ARG:NH1	2.19	0.76
36:5:2854:U:OP2	47:m0:3:ARG:NH2	2.18	0.76
10:S8:8:ARG:NH2	10:S8:19:ALA:O	2.18	0.76
17:C5:14:THR:HB	17:C5:22:LEU:HB2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.19	0.76
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	1.67	0.76
86:5:3501:OHX:N3	37:7:86:U:O2	2.19	0.76
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.19	0.76
1:6:833:U:O4	86:6:1956:OHX:N2	2.19	0.76
36:5:878:G:OP2	86:5:3713:OHX:N4	2.19	0.76
36:5:1752:A:OP2	86:5:3581:OHX:N3	2.18	0.76
36:5:3343:G:H21	36:5:3362:A:H2	1.32	0.76
36:1:2248:C:OP2	86:1:3418:OHX:N6	2.19	0.76
36:1:1814:A:H4'	36:1:1815:U:H5'	1.68	0.75
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.18	0.75
8:s6:10:ASN:HB3	8:s6:128:THR:HA	1.67	0.75
32:e0:59:GLY:O	32:e0:61:SER:N	2.18	0.75
1:2:1300:A:OP1	4:S2:99:LYS:NZ	2.19	0.75
36:1:300:G:O6	86:1:3675:OHX:N1	2.19	0.75
36:5:371:G:O6	86:5:3695:OHX:N2	2.20	0.75
36:1:276:U:O2	51:M5:93:LYS:NZ	2.19	0.75
4:s2:148:LEU:HA	23:d1:4:ASP:HB2	1.67	0.75
2:S0:179:ARG:HD3	2:S0:183:ARG:HH11	1.51	0.75
4:S2:140:ARG:HH22	4:S2:228:ASN:HD21	1.33	0.75
40:L3:3:HIS:ND1	40:L3:3:HIS:O	2.20	0.75
36:5:115:A:OP1	51:m5:49:ARG:NH2	2.20	0.75
36:5:3230:G:H4'	50:m4:132:LYS:HD3	1.67	0.75
1:2:25:C:O2	86:2:1960:OHX:N1	2.19	0.75
36:5:273:A:N7	86:5:3566:OHX:N3	2.35	0.75
46:l9:75:VAL:HA	46:l9:78:MET:HG3	1.66	0.75
36:1:172:G:N7	86:1:3529:OHX:N5	2.35	0.75
36:1:770:G:N7	86:1:3627:OHX:N6	2.34	0.75
36:1:3376:A:OP2	86:1:3444:OHX:N5	2.20	0.75
37:3:112:G:OP2	86:3:206:OHX:N1	2.19	0.75
49:M3:48:PRO:HB2	71:O5:117:ALA:HB2	1.68	0.75
1:6:542:A:H61	32:e0:28:LYS:HE2	1.51	0.75
1:6:1369:U:OP1	21:c9:119:LYS:NZ	2.18	0.75
2:s0:24:LEU:O	2:s0:163:ASN:ND2	2.19	0.75
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	1.68	0.75
86:5:3413:OHX:N3	39:l2:215:ASN:OD1	2.20	0.75
47:m0:174:THR:OG1	47:m0:175:ASN:N	2.16	0.75
27:D5:70:LYS:HB3	27:D5:71:ILE:HG13	1.69	0.75
39:l2:135:ILE:HG13	39:l2:149:ARG:HB3	1.68	0.75
43:l6:40:LEU:HD13	43:l6:84:VAL:HG11	1.67	0.75
44:l7:178:ILE:HA	44:l7:183:ASP:HB3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:m6:119:VAL:HG12	56:n0:164:SER:HB3	1.69	0.75
36:1:2943:G:OP2	40:L3:2:SER:OG	2.05	0.75
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.19	0.75
40:L3:171:LEU:O	86:L3:402:OHX:N6	2.19	0.75
50:M4:23:ILE:HA	50:M4:63:VAL:HG23	1.68	0.75
8:s6:163:THR:HG22	8:s6:168:THR:HG22	1.69	0.75
31:d9:21:CYS:HB2	31:d9:39:CYS:HB3	1.68	0.75
36:5:2436:U:H3	36:5:2511:A:H62	1.34	0.75
40:L3:41:VAL:CA	40:L3:185:GLY:HA3	2.17	0.74
1:6:373:G:N7	86:6:2030:OHX:N3	2.34	0.74
1:6:1462:G:N7	20:c8:143:ARG:NH2	2.35	0.74
5:s3:66:ILE:O	5:s3:70:THR:OG1	2.05	0.74
36:5:980:A:H2'	36:5:981:U:C2	2.21	0.74
1:2:820:U:H2'	1:2:821:U:H4'	1.68	0.74
1:2:1073:G:O6	86:2:2000:OHX:N6	2.20	0.74
19:C7:44:LYS:O	19:C7:48:ASN:ND2	2.19	0.74
36:5:1235:U:H4'	36:5:1236:G:H5'	1.67	0.74
34:sR:178:VAL:HB	34:sR:192:PHE:HB2	1.69	0.74
36:5:2522:G:H1	39:l2:70:ARG:HH22	1.32	0.74
37:7:15:C:O3'	42:l5:8:LYS:NZ	2.20	0.74
41:l4:99:MET:HE3	41:l4:102:PRO:HA	1.69	0.74
22:D0:48:HIS:ND1	22:D0:48:HIS:O	2.20	0.74
36:1:3268:A:OP1	43:L6:46:ARG:NH2	2.19	0.74
1:6:986:G:OP2	86:6:1973:OHX:N2	2.20	0.74
59:n3:3:GLY:HA2	59:n3:40:LYS:HB3	1.68	0.74
36:1:2120:A:OP2	86:1:3545:OHX:N2	2.20	0.74
41:L4:143:GLU:O	86:L4:401:OHX:N2	2.20	0.74
53:M7:25:SER:O	53:M7:29:THR:HG23	1.88	0.74
78:Q2:47:GLN:NE2	78:Q2:54:THR:OG1	2.20	0.74
1:6:895:G:H21	16:c4:38:THR:HG21	1.51	0.74
33:e1:86:THR:O	33:e1:87:THR:OG1	2.04	0.74
36:1:1171:G:O6	86:1:3496:OHX:N2	2.20	0.74
36:1:2443:A:N6	36:1:2504:U:O4	2.20	0.74
36:1:3230:G:H4'	50:M4:132:LYS:HD3	1.69	0.74
4:s2:143:TYR:O	24:d2:98:GLN:NE2	2.17	0.74
36:1:618:C:H5'	53:M7:169:THR:HG22	1.69	0.74
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.21	0.74
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.68	0.74
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.70	0.74
78:Q2:50:PHE:O	86:Q2:502:OHX:N2	2.21	0.74
1:6:1735:U:O4	86:6:1977:OHX:N5	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:78:ASP:HB3	4:s2:104:VAL:HG12	1.69	0.74
1:2:1067:C:H5"	3:S1:150:VAL:HG13	1.68	0.74
36:1:924:G:OP1	86:1:3669:OHX:N5	2.21	0.74
36:5:409:A:OP2	86:5:3603:OHX:N1	2.21	0.74
1:2:1063:U:OP1	29:D7:72:LYS:NZ	2.21	0.74
1:2:1681:A:H1'	8:S6:66:GLY:HA2	1.70	0.74
25:D3:93:LEU:HD21	32:E0:8:LEU:HD13	1.68	0.74
41:L4:145:ILE:O	86:L4:401:OHX:N5	2.21	0.73
1:2:471:A:OP2	86:2:1953:OHX:N4	2.22	0.73
39:L2:30:ARG:NH2	39:L2:33:ASP:OD2	2.20	0.73
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.21	0.73
1:6:484:C:H42	1:6:503:G:H1	1.35	0.73
1:6:653:C:N4	1:6:677:G:H1	1.85	0.73
21:c9:33:TYR:HD1	21:c9:34:VAL:H	1.37	0.73
50:m4:16:GLU:HB3	56:n0:149:LYS:HB3	1.69	0.73
71:o5:78:LYS:HA	71:o5:81:ARG:HD3	1.69	0.73
10:S8:114:GLU:HG2	10:S8:120:THR:HA	1.68	0.73
46:L9:22:SER:OG	46:L9:23:ARG:N	2.19	0.73
75:O9:10:LYS:HA	75:O9:13:MET:HE3	1.68	0.73
5:s3:116:ARG:HH22	5:s3:150:MET:HE1	1.53	0.73
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.70	0.73
36:1:1919:G:N7	86:1:3550:OHX:N5	2.35	0.73
36:1:3348:G:H1	36:1:3357:U:H3	1.35	0.73
39:L2:20:THR:HA	39:L2:23:ARG:HD2	1.71	0.73
4:s2:76:LEU:HD21	4:s2:104:VAL:HB	1.71	0.73
38:8:16:G:O6	86:8:202:OHX:N6	2.21	0.73
33:e1:90:LYS:HB2	33:e1:93:HIS:CE1	2.22	0.73
36:5:107:A:OP1	49:m3:39:ARG:NH1	2.21	0.73
36:5:1759:C:N4	36:5:1766:G:O6	2.19	0.73
36:1:3088:G:OP2	86:1:3701:OHX:N3	2.21	0.73
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.71	0.73
1:6:1595:U:H3	1:6:1600:A:H2	1.34	0.73
4:s2:67:GLN:HA	4:s2:70:ASP:HB2	1.70	0.73
10:s8:151:LYS:NZ	10:s8:152:ILE:O	2.21	0.73
1:2:1592:A:H2'	1:2:1593:A:C8	2.24	0.73
49:M3:46:ILE:HG22	49:M3:49:ARG:HB2	1.70	0.73
13:c1:33:ARG:NH1	13:c1:53:TYR:O	2.21	0.73
26:d4:57:VAL:HB	26:d4:60:PHE:HE2	1.53	0.73
36:5:155:G:H5"	36:5:156:G:C8	2.23	0.73
36:5:626:U:O4	86:5:3484:OHX:N4	2.22	0.73
1:2:770:A:OP2	86:2:2007:OHX:N6	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1619:C:H1'	30:D8:22:ARG:HH21	1.52	0.73
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.69	0.73
36:1:2534:G:O6	86:1:3534:OHX:N4	2.21	0.73
36:1:3377:G:O6	86:1:3573:OHX:N1	2.22	0.73
1:6:391:A:OP2	10:s8:23:LYS:NZ	2.20	0.73
81:l8:24:ASN:O	81:l8:26:LEU:N	2.20	0.73
1:2:1595:U:H3	1:2:1600:A:H2	1.37	0.73
14:C2:52:LEU:O	14:C2:85:LYS:NZ	2.22	0.73
36:1:2854:U:OP2	47:M0:3:ARG:NH2	2.22	0.73
46:L9:49:ASN:O	46:L9:49:ASN:ND2	2.21	0.73
62:N6:71:SER:HB3	62:N6:83:ASP:HB2	1.71	0.73
1:6:475:A:OP2	11:s9:126:ARG:NH1	2.20	0.73
5:s3:116:ARG:HB2	5:s3:116:ARG:HH11	1.54	0.73
36:5:343:U:OP2	86:5:3426:OHX:N5	2.21	0.73
36:5:2533:G:O6	86:5:3542:OHX:N4	2.20	0.73
47:m0:42:THR:HG23	47:m0:45:GLU:HG3	1.71	0.73
20:C8:125:ILE:HG12	35:SM:61:ILE:HG23	1.70	0.73
1:6:1680:G:O6	86:6:2033:OHX:N3	2.22	0.73
53:m7:25:SER:O	53:m7:29:THR:HG23	1.89	0.73
61:n5:103:TYR:HB3	61:n5:135:ILE:HD11	1.69	0.73
36:1:1015:U:O2'	36:1:1017:C:OP2	2.07	0.72
36:1:1362:G:H4'	44:L7:159:GLN:O	1.88	0.72
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.70	0.72
54:M8:170:ARG:NH1	64:N8:56:VAL:O	2.22	0.72
62:N6:47:ALA:O	62:N6:122:LYS:NZ	2.22	0.72
1:6:691:C:OP1	1:6:696:C:N4	2.21	0.72
1:2:475:A:OP2	11:S9:126:ARG:NH1	2.22	0.72
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.21	0.72
36:1:1719:G:OP1	55:M9:110:ARG:NH2	2.22	0.72
36:1:3165:A:H61	36:1:3285:C:H42	1.35	0.72
1:6:324:U:OP1	13:c1:133:LYS:NZ	2.22	0.72
2:s0:13:ASP:OD1	2:s0:179:ARG:NH2	2.22	0.72
15:c3:132:VAL:HG23	15:c3:134:VAL:HG13	1.71	0.72
41:l4:300:ARG:O	54:m8:39:ARG:NH1	2.22	0.72
36:1:1507:G:C8	53:M7:129:THR:HG22	2.24	0.72
36:1:3316:A:OP1	36:1:3318:G:N2	2.23	0.72
1:6:1665:U:O4	86:6:1977:OHX:N6	2.22	0.72
3:s1:72:ASP:OD1	16:c4:114:ARG:NH1	2.23	0.72
4:S2:83:ILE:HD12	35:SM:117:LEU:HD12	1.71	0.72
36:1:381:U:O4	86:1:3596:OHX:N1	2.21	0.72
36:1:1819:U:O4	86:1:3578:OHX:N4	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:1:3531:OHX:N6	37:3:86:U:O2'	2.23	0.72
59:N3:81:GLN:O	59:N3:98:ASN:ND2	2.21	0.72
63:N7:78:ASN:OD1	66:O0:35:ARG:NH2	2.19	0.72
36:5:2444:C:H42	36:5:2503:G:H1	1.37	0.72
36:5:2895:G:H2'	36:5:2896:A:H5"	1.71	0.72
12:C0:3:MET:SD	12:C0:8:ARG:NH1	2.62	0.72
1:6:434:G:N7	86:6:1937:OHX:N5	2.36	0.72
1:6:1253:U:O4	33:e1:97:LYS:NZ	2.22	0.72
36:5:1427:U:OP2	64:n8:4:ARG:NH2	2.23	0.72
49:m3:3:ILE:HG21	64:n8:45:MET:HE3	1.72	0.72
27:D5:97:LYS:HG3	27:D5:98:GLN:H	1.53	0.72
39:L2:30:ARG:HH21	39:L2:36:GLU:HG3	1.54	0.72
48:M1:107:ASP:OD1	48:M1:107:ASP:N	2.22	0.72
36:5:1650:G:N7	86:5:3676:OHX:N1	2.37	0.72
70:o4:58:ARG:HG3	70:o4:59:PRO:HD2	1.70	0.72
1:2:149:C:O2'	8:S6:132:ARG:NH1	2.22	0.72
1:2:1488:G:H3'	1:2:1515:A:H61	1.53	0.72
9:S7:30:SER:HB2	9:S7:34:LEU:HB2	1.70	0.72
36:5:1879:A:H2'	36:5:1879:A:N3	2.04	0.72
39:l2:68:LYS:HD3	39:l2:70:ARG:HH21	1.55	0.72
1:2:1529:C:OP1	7:S5:112:ARG:NH1	2.20	0.72
36:1:3224:G:O6	86:1:3430:OHX:N4	2.23	0.72
46:L9:90:MET:HB2	46:L9:144:ILE:HG22	1.72	0.72
68:O2:19:ARG:HG3	68:O2:33:ARG:HB2	1.72	0.72
4:S2:87:GLN:HG2	4:S2:96:THR:HB	1.70	0.72
36:1:1222:G:O2'	36:1:1285:G:N1	2.18	0.72
40:l3:41:VAL:CA	40:l3:185:GLY:HA3	2.19	0.72
73:o7:62:GLY:O	86:o7:502:OHX:N3	2.22	0.72
1:6:325:G:H4'	13:c1:83:THR:HG21	1.72	0.72
36:5:658:G:OP1	86:5:3593:OHX:N5	2.23	0.72
36:5:2988:C:OP1	52:m6:68:ARG:NH1	2.22	0.72
39:l2:30:ARG:NH2	39:l2:33:ASP:OD2	2.23	0.72
49:m3:79:GLU:OE2	49:m3:103:ASN:ND2	2.23	0.72
1:2:169:A:H5"	8:S6:176:GLN:HG2	1.71	0.71
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.69	0.71
36:1:385:A:H2'	36:1:386:A:C8	2.25	0.71
20:c8:145:ARG:HG3	80:sM:68:ARG:HH22	1.55	0.71
50:m4:19:ARG:HA	50:m4:69:THR:HG22	1.72	0.71
42:L5:68:THR:HG22	42:L5:70:THR:H	1.54	0.71
36:5:2770:G:N7	86:5:3653:OHX:N5	2.37	0.71
57:n1:51:GLY:HA3	57:n1:92:ARG:HG3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:o7:21:ARG:NH2	73:o7:41:ALA:O	2.21	0.71
1:2:732:G:O2'	1:2:733:A:O4'	2.08	0.71
9:S7:64:VAL:O	9:S7:66:SER:N	2.23	0.71
25:D3:102:VAL:HG12	25:D3:127:VAL:HG12	1.72	0.71
37:3:5:G:OP2	42:L5:27:LYS:NZ	2.22	0.71
42:L5:132:THR:HG21	42:L5:170:GLY:HA2	1.72	0.71
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	1.72	0.71
24:d2:11:LEU:HD12	24:d2:74:VAL:HG23	1.72	0.71
36:5:3066:U:O4	86:5:3606:OHX:N4	2.23	0.71
62:n6:45:ILE:HD11	62:n6:122:LYS:HB2	1.72	0.71
1:2:759:U:OP1	86:S9:201:OHX:N1	2.23	0.71
1:2:1735:U:O4	86:2:2005:OHX:N2	2.23	0.71
6:S4:193:GLY:HA3	6:S4:210:ILE:HG22	1.71	0.71
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.23	0.71
35:SM:102:THR:HG23	35:SM:105:LYS:H	1.55	0.71
36:1:1308:A:C8	36:1:1308:A:OP2	2.42	0.71
69:O3:75:HIS:HB3	69:O3:80:VAL:HG12	1.73	0.71
1:6:1067:C:H5"	3:s1:150:VAL:HG13	1.70	0.71
4:s2:225:LEU:HD13	24:d2:68:ARG:HA	1.71	0.71
1:2:149:C:OP1	26:D4:121:THR:OG1	2.06	0.71
1:2:151:G:O6	26:D4:124:ARG:NH2	2.23	0.71
36:1:2207:A:H2'	36:1:2208:A:H8	1.56	0.71
40:L3:139:GLN:O	40:L3:141:GLY:N	2.21	0.71
1:6:73:U:H2'	1:6:74:U:C6	2.25	0.71
1:6:486:G:H22	1:6:501:U:H3	1.37	0.71
1:6:1239:U:O4	86:6:1952:OHX:N1	2.23	0.71
1:2:975:C:H5"	15:C3:109:LYS:HE2	1.72	0.71
6:S4:192:ILE:HG13	6:S4:243:GLY:HA3	1.72	0.71
25:D3:79:ASN:HB3	25:D3:81:LYS:H	1.56	0.71
48:M1:82:ARG:HG3	48:M1:112:LEU:HB2	1.71	0.71
1:6:471:A:OP2	86:6:1958:OHX:N5	2.23	0.71
41:l4:325:LEU:O	44:l7:41:ARG:NH2	2.24	0.71
1:2:1182:U:O4	86:2:1992:OHX:N6	2.23	0.71
19:C7:85:VAL:HG22	19:C7:86:PRO:HA	1.73	0.71
36:5:860:G:OP1	79:q3:17:ARG:NH1	2.23	0.71
36:5:2177:G:OP2	39:l2:128:ARG:NH1	2.23	0.71
86:2:1914:OHX:N2	10:S8:17:LYS:O	2.22	0.71
2:S0:13:ASP:HA	2:S0:16:LEU:HD12	1.72	0.71
36:1:3020:U:O4	86:1:3526:OHX:N4	2.23	0.71
14:c2:103:LEU:HD23	14:c2:115:VAL:HA	1.71	0.71
1:2:523:G:OP2	26:D4:37:LYS:NZ	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:155:ASP:OD2	9:S7:156:SER:N	2.24	0.71
36:5:361:A:O3'	73:o7:45:ARG:NH2	2.24	0.71
36:5:364:G:OP1	41:l4:60:THR:OG1	2.07	0.71
53:m7:108:ASP:N	53:m7:152:GLU:OE2	2.22	0.71
36:1:544:C:H1'	36:1:548:G:H22	1.56	0.71
36:1:1808:G:O6	86:1:3519:OHX:N3	2.23	0.71
36:1:1952:G:H3'	36:1:1953:G:H5"	1.72	0.71
40:L3:56:ILE:HD11	40:L3:359:ILE:HG12	1.73	0.71
1:6:86:A:OP2	86:6:2032:OHX:N1	2.24	0.71
29:d7:56:CYS:SG	29:d7:57:GLU:N	2.64	0.71
36:5:2201:G:H21	39:l2:224:THR:HG21	1.56	0.71
14:C2:91:VAL:HG12	14:C2:92:ALA:H	1.54	0.70
36:1:2875:U:H3	36:1:2952:G:H1	1.36	0.70
37:3:49:G:N7	42:L5:58:LYS:HG3	2.05	0.70
45:L8:240:ASN:HA	45:L8:243:GLN:HB2	1.73	0.70
10:s8:10:LYS:HG2	13:c1:133:LYS:HE3	1.71	0.70
34:sR:16:HIS:ND1	34:sR:39:ASP:OD2	2.21	0.70
44:l7:88:ARG:HD2	44:l7:90:LYS:O	1.90	0.70
59:n3:133:SER:O	86:n3:202:OHX:N3	2.24	0.70
7:S5:55:ASP:HB3	7:S5:58:LEU:HD12	1.74	0.70
36:1:1233:G:H1	36:1:1255:C:H42	1.36	0.70
24:d2:18:GLU:HG3	24:d2:69:LEU:HD23	1.72	0.70
28:d6:12:LYS:HE2	28:d6:16:GLY:HA2	1.73	0.70
42:l5:120:LYS:O	42:l5:248:ARG:NH2	2.24	0.70
36:1:807:A:H61	36:1:934:G:H22	1.37	0.70
48:M1:133:ARG:NH1	48:M1:152:HIS:O	2.24	0.70
1:6:235:G:H2'	1:6:236:A:H8	1.57	0.70
1:6:895:G:H1	1:6:917:U:H3	1.39	0.70
44:L7:26:VAL:HG13	44:L7:27:ALA:H	1.56	0.70
52:M6:84:LEU:HD13	52:M6:102:LEU:HD21	1.73	0.70
67:O1:11:GLU:OE2	67:O1:74:ARG:NH2	2.24	0.70
22:d0:27:THR:HB	22:d0:88:LYS:HG2	1.73	0.70
36:5:2579:G:O6	86:5:3532:OHX:N1	2.24	0.70
36:5:3128:G:OP2	86:5:3656:OHX:N5	2.23	0.70
50:M4:38:ILE:HD11	56:N0:150:PHE:CE2	2.26	0.70
17:c5:129:GLY:HA3	80:sM:74:LYS:HD2	1.73	0.70
36:5:2112:U:H4'	36:5:2113:A:H5'	1.72	0.70
36:1:1560:G:O6	61:N5:36:LYS:NZ	2.24	0.70
36:1:1634:G:N7	63:N7:17:ARG:NH2	2.40	0.70
6:s4:52:LEU:HB3	6:s4:54:TYR:HD2	1.55	0.70
15:c3:55:ARG:NH1	15:c3:56:ASP:OD1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:sM:46:LYS:HA	36:5:1018:G:H4'	1.73	0.70
36:5:2761:G:N7	78:q2:63:LYS:NZ	2.34	0.70
62:n6:127:GLU:H	62:n6:127:GLU:CD	2.00	0.70
64:n8:6:THR:HG23	64:n8:8:THR:HG23	1.73	0.70
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.25	0.70
64:N8:74:ASN:HB3	64:N8:115:LYS:HB2	1.72	0.70
5:s3:42:THR:OG1	5:s3:44:THR:O	2.07	0.70
6:s4:9:LEU:HB2	6:s4:30:ARG:HB2	1.73	0.70
36:5:2704:A:OP2	86:5:3401:OHX:N5	2.25	0.70
36:5:3035:A:OP2	86:5:3552:OHX:N5	2.24	0.70
9:S7:74:GLN:HE22	9:S7:92:PHE:HB2	1.56	0.70
36:1:1852:G:N7	86:1:3515:OHX:N3	2.39	0.70
1:6:800:U:H2'	1:6:801:G:H8	1.57	0.70
1:6:1542:G:N2	1:6:1569:A:OP2	2.24	0.70
36:5:2433:U:H1'	51:m5:125:SER:HB3	1.74	0.70
46:l9:9:GLN:O	46:l9:72:LYS:NZ	2.25	0.70
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	1.72	0.70
11:S9:96:VAL:HA	11:S9:99:LEU:HD22	1.73	0.70
36:1:2573:G:O6	86:1:3535:OHX:N3	2.25	0.70
64:N8:6:THR:HG22	64:N8:9:ARG:HG2	1.74	0.70
20:c8:12:GLN:NE2	20:c8:13:HIS:O	2.24	0.70
3:S1:201:THR:HG21	3:S1:207:LEU:HD22	1.74	0.70
48:M1:148:VAL:HG13	48:M1:152:HIS:HB3	1.74	0.70
56:N0:77:VAL:HG11	56:N0:106:LEU:HD12	1.72	0.70
2:s0:140:ASN:HD22	4:s2:62:PRO:HD3	1.55	0.70
37:7:5:G:OP1	48:m1:143:ARG:NH2	2.24	0.70
81:l8:133:LYS:HB2	81:l8:199:ALA:O	1.90	0.70
84:p0:51:VAL:HB	84:p0:87:VAL:HG22	1.74	0.70
1:2:57:G:O6	86:2:1924:OHX:N3	2.25	0.69
21:C9:16:ASN:OD1	21:C9:56:LYS:NZ	2.25	0.69
1:6:639:U:OP1	9:s7:118:LEU:N	2.25	0.69
1:6:1283:U:OP1	86:6:1990:OHX:N1	2.25	0.69
6:s4:151:ASP:OD1	8:s6:215:ARG:NH1	2.25	0.69
10:s8:36:THR:HB	10:s8:57:ALA:O	1.92	0.69
36:5:1819:U:O4	86:5:3551:OHX:N5	2.25	0.69
1:2:591:A:H2'	1:2:592:A:H8	1.57	0.69
1:2:1282:U:OP1	86:2:1988:OHX:N5	2.26	0.69
1:2:1605:G:OP2	18:C6:127:LYS:NZ	2.19	0.69
9:S7:131:PHE:O	9:S7:133:THR:N	2.24	0.69
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.73	0.69
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:112:ASP:HB2	62:N6:115:ARG:HB2	1.74	0.69
1:6:1738:U:O4	86:6:1918:OHX:N5	2.25	0.69
36:5:1124:U:O4	86:5:3643:OHX:N5	2.25	0.69
1:2:25:C:O2	86:2:1960:OHX:N3	2.25	0.69
1:2:301:A:OP2	86:2:1942:OHX:N2	2.25	0.69
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.57	0.69
1:2:853:G:O6	55:M9:173:ARG:NH2	2.25	0.69
1:2:1542:G:N2	1:2:1569:A:OP2	2.24	0.69
20:C8:27:LYS:O	20:C8:29:VAL:N	2.23	0.69
41:L4:311:HIS:CE1	41:L4:314:LYS:HA	2.28	0.69
1:6:161:U:OP2	8:s6:87:ARG:NH2	2.25	0.69
20:c8:30:TYR:HE2	20:c8:40:ARG:HH11	1.40	0.69
36:5:1538:G:OP2	86:5:3508:OHX:N1	2.25	0.69
38:8:106:C:O2'	86:8:215:OHX:N5	2.24	0.69
44:l7:228:SER:HA	44:l7:232:ARG:NH2	2.08	0.69
1:2:734:A:H5"	1:2:735:C:OP1	1.92	0.69
1:2:776:G:O6	1:2:784:C:N4	2.25	0.69
9:S7:74:GLN:HG2	9:S7:131:PHE:HD1	1.57	0.69
18:C6:93:HIS:HA	18:C6:97:VAL:HG13	1.74	0.69
27:D5:39:ALA:HB1	27:D5:72:GLY:N	2.07	0.69
36:1:824:C:H5"	39:L2:21:ARG:HD3	1.73	0.69
46:L9:138:THR:O	46:L9:139:ASN:ND2	2.25	0.69
1:6:1383:G:O2'	22:d0:35:GLU:OE2	2.07	0.69
36:5:135:C:HO2'	71:o5:95:PHE:H	1.41	0.69
1:2:591:A:H2'	1:2:592:A:C8	2.27	0.69
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	1.74	0.69
16:C4:19:ILE:HB	16:C4:83:ILE:HD12	1.74	0.69
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.75	0.69
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.28	0.69
43:L6:31:ARG:NH2	43:L6:81:ALA:O	2.26	0.69
2:s0:140:ASN:ND2	4:s2:60:SER:O	2.25	0.69
30:d8:42:ARG:NH2	30:d8:58:GLU:O	2.26	0.69
36:5:283:G:OP2	78:q2:45:ARG:NH2	2.25	0.69
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.26	0.69
1:6:1435:G:N7	12:c0:25:LYS:NZ	2.39	0.69
1:6:1615:C:N4	7:s5:78:ALA:O	2.26	0.69
36:5:2828:G:O2'	47:m0:4:ARG:NH1	2.26	0.69
1:2:1254:U:OP2	14:C2:46:ARG:NH1	2.26	0.69
1:2:1480:G:H4'	21:C9:11:ALA:HB1	1.74	0.69
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.75	0.69
20:C8:130:GLY:O	20:C8:145:ARG:NH1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:28:LEU:HD13	21:C9:30:VAL:HG22	1.74	0.69
23:D1:11:LEU:HD12	23:D1:12:TYR:HB3	1.73	0.69
25:D3:127:VAL:O	25:D3:130:VAL:HG22	1.92	0.69
36:1:678:G:O6	86:1:3510:OHX:N1	2.26	0.69
36:1:1245:A:N6	36:1:1272:C:O2'	2.25	0.69
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.26	0.69
57:N1:50:LYS:HB3	57:N1:92:ARG:HH11	1.57	0.69
1:6:1521:G:O6	21:c9:68:ARG:NH1	2.26	0.69
26:d4:20:ARG:HE	26:d4:22:GLN:HE21	1.40	0.69
36:5:2734:A:OP1	86:5:3547:OHX:N6	2.25	0.69
43:l6:42:LEU:HD22	43:l6:79:VAL:HG21	1.75	0.69
1:2:656:G:O2'	1:2:657:U:O4'	2.11	0.69
3:S1:70:LEU:O	3:S1:74:GLN:N	2.24	0.69
17:C5:81:ARG:HH12	17:C5:120:SER:HB3	1.58	0.69
36:1:2255:A:H5'	36:1:2261:G:H22	1.57	0.69
36:1:2744:U:OP1	86:1:3610:OHX:N1	2.26	0.69
36:1:3276:G:H1	69:O3:60:ARG:HH22	1.40	0.69
36:5:86:G:O2'	36:5:98:G:O6	2.07	0.69
43:l6:31:ARG:NH1	69:o3:107:ILE:HG22	2.08	0.69
81:l8:100:GLU:OE2	81:l8:108:ARG:NH1	2.25	0.69
52:m6:121:PRO:HA	52:m6:124:LEU:HD22	1.75	0.69
66:o0:101:LEU:HD22	66:o0:101:LEU:H	1.57	0.69
1:2:1670:G:N7	86:2:1995:OHX:N5	2.40	0.69
1:6:793:A:H3'	1:6:794:U:H5'	1.74	0.69
16:c4:25:ASP:OD1	16:c4:26:THR:N	2.25	0.69
38:8:124:G:OP2	86:8:211:OHX:N2	2.27	0.69
2:s0:79:ARG:NH1	2:s0:164:ASN:O	2.25	0.68
38:8:135:G:OP2	61:n5:56:ARG:NH2	2.25	0.68
1:2:862:A:N7	15:C3:64:ARG:NH2	2.40	0.68
36:1:2514:U:H5'	45:L8:68:ARG:HG3	1.75	0.68
36:1:2897:A:H2'	36:1:2899:C:H5"	1.76	0.68
73:O7:65:ARG:HG3	73:O7:65:ARG:HH11	1.59	0.68
1:6:1383:G:OP1	22:d0:89:ARG:NH2	2.26	0.68
1:6:1402:G:OP2	19:c7:5:ARG:NH1	2.26	0.68
3:s1:30:PHE:HB3	3:s1:96:LEU:HD22	1.75	0.68
36:5:1840:U:OP2	86:5:3540:OHX:N4	2.27	0.68
36:1:2236:G:OP1	86:1:3649:OHX:N6	2.26	0.68
36:5:129:U:O4	86:5:3434:OHX:N4	2.26	0.68
36:5:2537:U:O2'	36:5:2538:U:O4'	2.08	0.68
38:8:79:A:H3'	38:8:80:A:C8	2.29	0.68
46:l9:120:ASP:OD1	46:l9:124:ARG:NH2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1533:C:H4'	1:6:1539:G:N1	2.08	0.68
11:s9:109:LEU:HB2	11:s9:146:PHE:HB3	1.75	0.68
49:m3:101:ARG:HH22	49:m3:112:ASN:ND2	1.90	0.68
62:n6:55:GLU:HB2	62:n6:108:LYS:HB2	1.75	0.68
36:1:3019:U:O4	86:1:3526:OHX:N4	2.25	0.68
48:M1:133:ARG:NH2	48:M1:158:ASP:OD2	2.27	0.68
6:s4:187:ARG:HB2	6:s4:187:ARG:HH11	1.59	0.68
36:5:424:G:O2'	68:o2:23:ASP:OD2	2.11	0.68
36:5:2211:U:O4	86:5:3463:OHX:N4	2.27	0.68
36:5:2586:G:C8	81:l8:241:LYS:HD3	2.29	0.68
36:5:2953:U:H2'	36:5:2954:U:H2'	1.75	0.68
1:2:337:G:H3'	13:C1:133:LYS:HB2	1.76	0.68
36:1:92:G:OP2	36:1:93:C:H5"	1.92	0.68
36:1:1347:U:H4'	41:L4:305:ALA:HB2	1.75	0.68
36:1:1815:U:O2'	36:1:1816:A:OP2	2.11	0.68
36:1:2193:U:H5'	36:1:2194:G:H5'	1.76	0.68
68:O2:91:THR:HG22	68:O2:92:TYR:CD2	2.29	0.68
1:6:1316:G:HO2'	1:6:1401:A:HO2'	1.37	0.68
21:c9:39:THR:HA	21:c9:100:ILE:HD12	1.75	0.68
36:5:900:G:H1'	36:5:1589:A:N6	2.08	0.68
36:5:1025:A:H3'	36:5:1026:A:H4'	1.75	0.68
36:5:1389:G:N7	86:5:3513:OHX:N2	2.42	0.68
79:q3:7:LYS:O	79:q3:27:LYS:NZ	2.25	0.68
30:D8:10:ALA:HB1	30:D8:30:VAL:HB	1.76	0.68
36:1:256:G:O6	86:1:3684:OHX:N3	2.27	0.68
66:O0:99:ASP:OD2	66:O0:99:ASP:N	2.27	0.68
71:O5:10:ARG:NH1	71:O5:60:GLU:OE2	2.27	0.68
1:2:823:G:H2'	1:2:824:G:C8	2.29	0.68
36:1:2827:U:O4	86:1:3403:OHX:N3	2.26	0.68
1:6:759:U:OP1	86:s9:201:OHX:N2	2.26	0.68
34:sR:149:ASP:HB2	34:sR:175:ASP:HB3	1.76	0.68
36:5:1103:A:H3'	36:5:1104:G:H5'	1.75	0.68
36:5:1320:C:O2	56:n0:115:ARG:NH2	2.26	0.68
42:l5:95:TRP:CH2	42:l5:181:PRO:HD3	2.29	0.68
62:n6:45:ILE:HD12	62:n6:119:ILE:HG23	1.76	0.68
1:2:818:C:N4	1:2:819:G:O6	2.27	0.68
1:2:1239:U:O4	86:2:1925:OHX:N4	2.27	0.68
36:1:1207:G:N7	86:1:3597:OHX:N1	2.42	0.68
40:L3:25:ILE:HD13	40:L3:25:ILE:H	1.55	0.68
63:N7:46:ILE:HD13	63:N7:68:ILE:HG23	1.74	0.68
36:5:2309:A:H4'	86:5:3691:OHX:N4	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:126:ILE:HD11	41:L4:233:LEU:HD13	1.76	0.68
1:6:66:U:H5'	8:s6:173:PRO:HA	1.74	0.68
38:8:143:U:OP1	51:m5:38:ARG:NH2	2.24	0.68
1:2:1173:C:OP1	20:C8:132:ARG:NH1	2.27	0.67
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	1.76	0.67
86:1:3538:OHX:N4	38:4:139:U:O4	2.27	0.67
1:6:1680:G:O6	86:6:2033:OHX:N4	2.26	0.67
17:c5:44:ARG:NH2	17:c5:82:ASN:O	2.27	0.67
22:d0:58:LEU:HD13	22:d0:88:LYS:HE3	1.75	0.67
36:5:381:U:O4	86:5:3626:OHX:N5	2.27	0.67
36:5:742:G:N7	86:5:3505:OHX:N4	2.42	0.67
36:5:2744:U:OP1	86:5:3595:OHX:N2	2.27	0.67
41:l4:35:VAL:HG21	41:l4:244:LEU:HD21	1.75	0.67
52:m6:27:LEU:HD11	52:m6:102:LEU:HB2	1.76	0.67
1:2:144:U:HO2'	1:2:145:A:H8	1.42	0.67
1:2:176:C:OP1	86:2:1951:OHX:N3	2.26	0.67
9:S7:50:ASP:OD1	9:S7:50:ASP:N	2.28	0.67
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	1.76	0.67
49:M3:50:PRO:O	49:M3:52:ASP:N	2.26	0.67
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	1.76	0.67
10:s8:36:THR:HG21	10:s8:173:PRO:HB2	1.74	0.67
13:c1:21:ASN:HD22	13:c1:31:THR:HA	1.59	0.67
18:c6:21:HIS:HB2	18:c6:66:ARG:HB3	1.74	0.67
36:5:2274:U:OP2	86:5:3485:OHX:N6	2.27	0.67
40:l3:218:ILE:HG13	40:l3:276:THR:HG23	1.75	0.67
72:o6:63:ASN:O	72:o6:65:GLY:N	2.27	0.67
1:2:514:G:H1	1:2:543:C:H5	1.40	0.67
1:2:840:U:O2'	1:2:841:U:H5"	1.95	0.67
1:2:851:U:H2'	1:2:852:C:C6	2.28	0.67
25:D3:130:VAL:O	25:D3:131:SER:HB3	1.93	0.67
36:1:2718:U:OP2	86:1:3520:OHX:N3	2.27	0.67
74:O8:9:LYS:NZ	74:O8:13:GLU:OE2	2.28	0.67
6:s4:104:ASP:HB3	6:s4:106:LYS:H	1.58	0.67
53:m7:122:ALA:HB3	53:m7:143:PRO:HB2	1.76	0.67
55:m9:106:LEU:HD13	55:m9:138:LEU:HD11	1.76	0.67
1:2:583:C:OP1	86:2:1904:OHX:N3	2.27	0.67
17:C5:69:GLU:OE1	86:C5:201:OHX:N6	2.28	0.67
22:D0:42:VAL:HG21	22:D0:55:PRO:HD3	1.75	0.67
36:1:1699:A:OP1	86:1:3699:OHX:N1	2.27	0.67
71:O5:68:GLN:HA	71:O5:71:LYS:HB2	1.77	0.67
1:6:1316:G:OP1	19:c7:7:LYS:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:34:TYR:HE2	5:s3:37:VAL:HG13	1.60	0.67
37:7:1:G:O2'	42:l5:270:LYS:HB3	1.94	0.67
1:2:738:G:O6	86:2:1971:OHX:N1	2.28	0.67
7:S5:74:ALA:O	18:C6:122:ARG:NH2	2.28	0.67
7:S5:144:GLU:OE1	7:S5:225:ARG:NH2	2.26	0.67
28:D6:10:ARG:HB2	28:D6:34:LYS:HA	1.76	0.67
36:1:3018:C:OP2	86:1:3526:OHX:N2	2.28	0.67
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.59	0.67
1:6:400:A:N6	10:s8:29:LEU:HD12	2.08	0.67
5:s3:74:GLN:HA	5:s3:79:TYR:HB2	1.75	0.67
36:5:1010:G:N2	47:m0:193:ASP:OD1	2.27	0.67
39:L2:202:VAL:HG23	39:L2:211:HIS:HB3	1.76	0.67
1:6:1208:A:N1	1:6:1455:G:N2	2.42	0.67
36:5:149:U:OP2	51:m5:49:ARG:NH1	2.26	0.67
36:5:1806:A:OP2	86:5:3526:OHX:N5	2.28	0.67
36:5:2996:U:H4'	36:5:2996:U:OP1	1.93	0.67
46:l9:117:PHE:CE1	46:l9:165:CYS:HB3	2.30	0.67
46:l9:137:SER:HB2	46:l9:143:GLU:HB3	1.76	0.67
1:2:458:G:OP2	26:D4:105:ARG:NH2	2.28	0.67
13:C1:21:ASN:OD1	13:C1:21:ASN:N	2.26	0.67
14:C2:76:GLU:OE2	14:C2:90:LYS:NZ	2.21	0.67
47:M0:168:SER:OG	57:N1:160:ILE:O	2.09	0.67
1:6:915:A:OP1	86:6:1926:OHX:N6	2.28	0.67
34:sR:90:ARG:HG2	34:sR:102:ARG:HG2	1.76	0.67
36:5:2255:A:H5'	36:5:2261:G:H22	1.58	0.67
36:5:2588:U:OP1	81:l8:48:ARG:NH2	2.27	0.67
1:2:66:U:C5	8:S6:173:PRO:HG3	2.30	0.67
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.24	0.67
3:S1:62:LYS:O	3:S1:64:ARG:N	2.27	0.67
24:D2:104:LEU:HB2	24:D2:124:LYS:O	1.95	0.67
39:L2:27:ALA:O	39:L2:128:ARG:NH2	2.28	0.67
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.28	0.67
1:6:658:C:N4	1:6:673:A:N1	2.42	0.67
22:d0:17:GLN:HG3	22:d0:18:GLN:HG3	1.77	0.67
36:5:2989:U:O2'	40:l3:232:ARG:NH2	2.27	0.67
49:m3:28:GLN:HB3	51:m5:201:ARG:HH11	1.60	0.67
3:S1:154:SER:O	3:S1:154:SER:OG	2.12	0.67
5:S3:178:ARG:H	5:S3:178:ARG:NE	1.91	0.67
7:S5:23:VAL:O	7:S5:34:GLN:NE2	2.27	0.67
20:C8:5:VAL:HG23	27:D5:42:LEU:HD23	1.77	0.67
36:1:1170:A:OP2	86:1:3496:OHX:N3	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1565:G:N2	36:1:1574:C:N3	2.43	0.67
1:6:491:C:N4	1:6:496:G:O6	2.28	0.67
1:6:1350:U:H2'	1:6:1351:G:C8	2.29	0.67
5:s3:211:PRO:HG2	19:c7:19:ARG:HB2	1.76	0.67
36:5:3074:G:OP1	86:5:3619:OHX:N4	2.28	0.67
53:m7:33:ALA:HB1	53:m7:117:ILE:HG12	1.77	0.67
10:S8:185:GLU:HG2	13:C1:23:PRO:HG2	1.77	0.67
36:1:742:G:N7	86:1:3512:OHX:N1	2.43	0.67
36:1:1238:C:N4	36:1:1245:A:OP2	2.28	0.67
36:1:1391:C:C2	68:O2:103:LYS:HD3	2.30	0.67
1:6:1368:G:O6	86:6:1940:OHX:N3	2.28	0.67
26:d4:42:GLU:HG3	26:d4:52:LYS:HD2	1.77	0.67
40:l3:171:LEU:O	86:l3:401:OHX:N3	2.28	0.67
58:n2:89:LEU:HB3	58:n2:93:ILE:HD12	1.75	0.67
1:2:856:A:H1'	9:S7:64:VAL:HG11	1.77	0.66
3:S1:180:THR:HG22	3:S1:181:LEU:HD13	1.78	0.66
10:S8:106:ALA:HB2	10:S8:165:LEU:HG	1.78	0.66
60:N4:49:ILE:O	60:N4:52:THR:OG1	2.12	0.66
67:O1:79:ARG:H	67:O1:79:ARG:HE	1.43	0.66
1:6:1227:A:H4'	1:6:1228:G:H5'	1.77	0.66
1:6:1280:C:H2'	1:6:1281:G:C8	2.30	0.66
36:5:1493:G:O6	75:o9:2:ALA:N	2.27	0.66
36:5:1940:G:H21	36:5:3362:A:H8	1.41	0.66
63:n7:83:THR:HG23	63:n7:85:TYR:H	1.60	0.66
70:o4:3:GLN:HE22	70:o4:30:LEU:H	1.43	0.66
21:C9:13:ASP:OD2	21:C9:13:ASP:N	2.25	0.66
41:L4:211:GLU:OE2	41:L4:213:ASN:ND2	2.28	0.66
59:N3:120:LYS:H	59:N3:137:VAL:HG23	1.60	0.66
63:N7:88:ASP:HB3	63:N7:121:ARG:HH22	1.59	0.66
37:7:68:C:OP1	42:l5:14:SER:OG	2.13	0.66
36:1:516:A:O3'	44:L7:60:ARG:NH2	2.27	0.66
41:L4:33:ASP:O	41:L4:37:THR:HG23	1.96	0.66
1:6:83:G:OP2	86:6:1953:OHX:N4	2.28	0.66
9:s7:67:LEU:HG	9:s7:94:ALA:HB2	1.76	0.66
36:5:976:U:OP1	54:m8:144:ARG:NH2	2.28	0.66
70:o4:82:ALA:O	70:o4:85:VAL:N	2.27	0.66
1:2:926:A:H2	16:C4:125:SER:HB3	1.58	0.66
36:1:2586:G:N7	45:L8:241:LYS:HB2	2.10	0.66
38:4:137:C:OP2	86:4:214:OHX:N2	2.29	0.66
1:6:826:U:O4	86:6:1921:OHX:N3	2.28	0.66
23:d1:51:VAL:HG11	23:d1:78:LEU:HD21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2440:G:H2'	36:5:2441:A:C8	2.30	0.66
41:l4:29:PRO:O	41:l4:124:SER:OG	2.14	0.66
48:m1:59:ILE:HD12	48:m1:65:ILE:HD11	1.78	0.66
63:n7:115:LYS:NZ	63:n7:119:GLU:OE2	2.28	0.66
84:p0:190:VAL:HB	84:p0:197:PHE:HB2	1.78	0.66
20:C8:49:LYS:NZ	20:C8:80:LYS:O	2.27	0.66
22:D0:17:GLN:HB3	22:D0:96:PRO:HB3	1.75	0.66
36:1:838:G:O6	79:Q3:4:ARG:NH2	2.28	0.66
36:1:1587:A:OP1	86:1:3480:OHX:N6	2.29	0.66
3:S1:61:LEU:O	3:S1:63:GLY:N	2.28	0.66
36:1:541:U:O4	86:1:3708:OHX:N6	2.28	0.66
36:1:733:G:O6	86:1:3600:OHX:N2	2.29	0.66
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.61	0.66
2:s0:163:ASN:O	2:s0:165:ARG:N	2.25	0.66
27:d5:49:ARG:NH2	27:d5:53:GLU:OE2	2.28	0.66
36:5:370:U:OP1	86:5:3662:OHX:N1	2.27	0.66
36:5:1098:A:OP2	57:n1:130:ARG:NH1	2.29	0.66
36:5:3224:G:O6	86:5:3499:OHX:N6	2.29	0.66
1:2:1365:C:H5"	18:C6:28:LEU:HD23	1.77	0.66
36:1:535:G:O6	86:1:3595:OHX:N3	2.29	0.66
36:1:1740:U:H1'	36:1:1741:A:H2	1.60	0.66
36:1:2392:C:HO2'	40:L3:266:ARG:HH22	1.42	0.66
48:M1:12:LEU:HD12	48:M1:131:MET:HE3	1.77	0.66
49:M3:48:PRO:HA	49:M3:137:GLN:HB3	1.77	0.66
1:6:140:A:N6	1:6:281:G:OP1	2.29	0.66
1:6:207:U:O2	10:s8:178:ARG:NH1	2.26	0.66
5:s3:140:GLY:HA3	5:s3:182:LEU:HD23	1.76	0.66
8:s6:98:ARG:NH2	8:s6:101:ILE:O	2.25	0.66
16:c4:20:TYR:HB3	16:c4:27:PHE:HB2	1.76	0.66
36:5:2385:G:O6	86:5:3435:OHX:N4	2.28	0.66
47:m0:99:ILE:HG12	47:m0:123:HIS:HB2	1.78	0.66
3:S1:181:LEU:HA	3:S1:184:LEU:HB3	1.78	0.66
24:D2:15:ASN:HD21	24:D2:71:LYS:HA	1.59	0.66
36:1:2534:G:H1	36:1:2545:C:H42	1.42	0.66
41:L4:152:VAL:HG22	41:L4:172:VAL:HG21	1.78	0.66
1:6:140:A:H1'	8:s6:179:VAL:HG21	1.77	0.66
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.78	0.66
36:1:1564:U:H2'	36:1:1565:G:H8	1.60	0.66
1:6:123:G:H21	6:s4:146:THR:HG21	1.61	0.66
1:6:218:A:H2'	1:6:219:A:H5"	1.77	0.66
1:6:1799:U:H4'	1:6:1800:A:H2'	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c0:21:VAL:HB	12:c0:66:TYR:HB2	1.77	0.66
25:d3:51:GLY:HA2	25:d3:77:ILE:HG13	1.78	0.66
36:5:129:U:H2'	36:5:130:A:C8	2.30	0.66
43:l6:11:PRO:HD2	68:o2:91:THR:HG21	1.78	0.66
53:m7:29:THR:HA	53:m7:32:THR:HG23	1.78	0.66
56:n0:137:ARG:HG2	56:n0:139:TYR:CE1	2.30	0.66
1:6:1698:G:N2	1:6:1699:G:N7	2.44	0.66
2:s0:183:ARG:HG2	2:s0:191:ARG:HG2	1.77	0.66
8:s6:135:PRO:HB2	8:s6:141:ILE:HG12	1.77	0.66
27:d5:102:THR:HG22	27:d5:103:ARG:H	1.59	0.66
56:n0:137:ARG:HG2	56:n0:139:TYR:CZ	2.30	0.66
72:o6:43:LEU:HD13	72:o6:47:ILE:HD11	1.77	0.66
74:o8:5:ILE:HG22	74:o8:54:LEU:HB2	1.78	0.66
74:o8:20:VAL:HG11	74:o8:45:VAL:HG12	1.77	0.66
36:1:1064:A:H4'	36:1:1065:A:O5'	1.96	0.65
36:1:2207:A:H2'	36:1:2208:A:C8	2.31	0.65
36:5:3272:C:OP2	43:l6:78:ARG:NH1	2.29	0.65
1:2:1793:G:N2	28:D6:76:SER:OG	2.26	0.65
5:S3:114:ALA:HB3	5:S3:117:ARG:HB2	1.78	0.65
36:1:1466:G:O6	86:1:3415:OHX:N4	2.29	0.65
36:1:1507:G:N7	53:M7:129:THR:HG22	2.11	0.65
36:1:2818:U:H6	36:1:2818:U:H5'	1.60	0.65
86:1:3618:OHX:N4	55:M9:14:VAL:O	2.29	0.65
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	1.78	0.65
51:M5:143:ARG:HE	71:O5:92:LEU:HD23	1.62	0.65
40:l3:53:MET:HG3	40:l3:77:THR:HG22	1.78	0.65
52:m6:79:ILE:HG21	52:m6:138:LEU:HD11	1.77	0.65
1:2:829:A:O2'	1:2:830:U:OP2	2.12	0.65
24:D2:30:SER:OG	24:D2:31:SER:N	2.27	0.65
36:1:1213:G:N7	86:1:3587:OHX:N3	2.45	0.65
31:d9:38:ILE:HG22	31:d9:42:CYS:HB3	1.78	0.65
36:5:1630:U:OP1	63:n7:67:LYS:NZ	2.28	0.65
36:5:1841:A:H1'	75:o9:45:ARG:HH22	1.60	0.65
36:5:2777:G:H5'	36:5:2778:G:OP1	1.97	0.65
36:5:2812:C:H2'	36:5:2813:A:H8	1.60	0.65
63:n7:129:TRP:O	63:n7:132:SER:N	2.29	0.65
36:1:776:U:H5	36:1:2719:U:O2	1.80	0.65
36:1:1093:A:N3	36:1:1096:U:N3	2.44	0.65
36:1:1659:U:O4	86:1:3691:OHX:N4	2.29	0.65
42:L5:85:ARG:NH1	42:L5:86:TYR:OH	2.29	0.65
1:6:419:G:N7	86:n3:202:OHX:N2	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:595:G:OP2	86:6:1958:OHX:N6	2.30	0.65
1:6:1058:U:H4'	1:6:1059:U:OP1	1.96	0.65
2:s0:84:ARG:HD3	2:s0:203:PHE:O	1.96	0.65
20:c8:28:ILE:HD11	20:c8:56:LYS:HB2	1.78	0.65
1:2:1761:U:O2'	1:2:1762:A:OP2	2.15	0.65
4:S2:39:THR:O	4:S2:42:GLY:N	2.27	0.65
4:S2:133:LYS:O	4:S2:136:VAL:HG13	1.96	0.65
16:C4:81:VAL:H	16:C4:115:ILE:HG22	1.59	0.65
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.28	0.65
1:6:1776:A:H2'	1:6:1777:G:C8	2.32	0.65
27:d5:73:GLY:HA2	27:d5:76:ALA:HB3	1.78	0.65
36:5:1276:U:OP2	86:5:3509:OHX:N1	2.30	0.65
46:l9:28:VAL:HG22	46:l9:33:THR:HB	1.76	0.65
72:o6:35:ASN:HA	72:o6:38:LYS:HB2	1.77	0.65
1:2:283:U:H5"	8:S6:188:ARG:HD3	1.78	0.65
11:S9:110:GLN:NE2	11:S9:126:ARG:HG2	2.12	0.65
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.28	0.65
1:6:93:A:H1'	6:s4:3:ARG:HB3	1.78	0.65
1:6:1524:A:H2'	1:6:1525:A:C8	2.31	0.65
36:5:1588:A:C2	75:o9:4:GLN:HG2	2.32	0.65
37:7:79:A:OP2	86:7:203:OHX:N3	2.29	0.65
72:o6:45:ARG:NH2	72:o6:54:GLU:OE1	2.28	0.65
34:SR:93:ASP:HB3	34:SR:96:THR:HG22	1.79	0.65
36:1:2310:U:OP1	86:1:3665:OHX:N4	2.29	0.65
48:M1:60:ARG:O	48:M1:63:GLU:HB2	1.96	0.65
53:M7:172:GLN:OE1	69:O3:60:ARG:NH1	2.30	0.65
5:s3:105:MET:HG2	5:s3:122:VAL:HG21	1.79	0.65
11:s9:108:ARG:HB2	11:s9:111:THR:HG23	1.78	0.65
23:d1:62:ARG:HH12	24:d2:20:THR:HB	1.62	0.65
36:5:1753:G:N7	86:5:3581:OHX:N5	2.44	0.65
36:5:2560:C:O2	86:5:3532:OHX:N2	2.30	0.65
49:m3:56:PRO:HG3	49:m3:74:GLY:O	1.97	0.65
1:2:1594:G:H5'	31:D9:33:LYS:HE3	1.79	0.65
36:1:2548:C:OP2	39:L2:93:LYS:NZ	2.29	0.65
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.62	0.65
57:N1:78:LYS:HG2	57:N1:87:LYS:HD2	1.79	0.65
14:c2:74:LEU:HD21	33:e1:106:TYR:HB3	1.78	0.65
1:2:104:A:OP2	1:2:308:C:N4	2.24	0.65
11:s9:29:LYS:O	11:s9:33:GLU:HG2	1.96	0.65
25:d3:130:VAL:HG23	25:d3:131:SER:H	1.61	0.65
7:S5:113:ILE:O	7:S5:117:THR:OG1	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:38:LEU:HD23	9:S7:41:LEU:HD12	1.78	0.65
36:1:422:A:C2	36:1:2363:A:H4'	2.32	0.65
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.27	0.65
36:1:2174:G:OP2	39:L2:193:ARG:NH1	2.19	0.65
49:M3:76:THR:HG22	49:M3:101:ARG:HB3	1.77	0.65
63:N7:15:ARG:NH2	70:O4:83:ASN:OD1	2.30	0.65
1:6:1151:A:O2'	1:6:1766:A:N7	2.28	0.65
17:c5:126:VAL:HG13	17:c5:127:ARG:H	1.62	0.65
36:5:437:G:H22	36:5:622:A:H61	1.45	0.65
36:5:673:U:OP1	54:m8:21:SER:OG	2.08	0.65
37:7:110:G:OP2	42:l5:279:LYS:NZ	2.26	0.65
41:l4:99:MET:HE3	41:l4:103:THR:H	1.60	0.65
48:m1:82:ARG:HB3	48:m1:112:LEU:HB2	1.79	0.65
1:2:5:U:H2'	1:2:6:G:H8	1.62	0.64
1:2:887:A:H1'	16:C4:122:PRO:HB3	1.79	0.64
30:D8:12:VAL:HG22	30:D8:28:VAL:HG11	1.79	0.64
40:L3:139:GLN:C	40:L3:141:GLY:H	2.05	0.64
40:L3:372:THR:HG22	40:L3:373:PRO:HD2	1.79	0.64
45:L8:152:LEU:HB3	45:L8:180:VAL:HG21	1.79	0.64
1:6:280:U:OP2	83:n4:113:LYS:NZ	2.27	0.64
11:s9:59:LEU:HD22	11:s9:69:ARG:HA	1.79	0.64
36:5:3242:G:H5'	36:5:3245:A:H8	1.59	0.64
37:7:112:G:OP2	86:7:205:OHX:N2	2.31	0.64
39:l2:238:ILE:C	39:l2:240:ALA:H	2.02	0.64
71:o5:101:THR:HG22	71:o5:104:GLN:HB2	1.79	0.64
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.78	0.64
16:C4:81:VAL:HG22	16:C4:115:ILE:HB	1.77	0.64
67:O1:79:ARG:H	67:O1:79:ARG:NE	1.95	0.64
1:6:158:U:O2'	1:6:159:U:H3'	1.98	0.64
36:5:314:U:O4	86:5:3684:OHX:N2	2.31	0.64
36:5:397:A:H4'	36:5:398:A:H5'	1.78	0.64
36:5:3115:C:OP1	46:l9:62:ARG:NH2	2.29	0.64
3:S1:83:LYS:NZ	16:C4:116:GLU:OE2	2.27	0.64
28:D6:19:LYS:HG3	28:D6:20:PRO:HD2	1.80	0.64
1:6:489:C:O2'	1:6:490:C:O4'	2.14	0.64
1:6:584:C:H1'	32:e0:18:THR:HG21	1.78	0.64
36:5:618:C:O2'	36:5:621:A:N3	2.26	0.64
1:2:115:G:OP1	13:C1:67:ARG:NH1	2.30	0.64
1:2:373:G:N7	86:2:2023:OHX:N6	2.45	0.64
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.79	0.64
37:3:28:C:OP1	48:M1:137:ARG:NH1	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:L6:31:ARG:NH1	69:O3:107:ILE:O	2.31	0.64
61:N5:105:VAL:HG11	61:N5:126:LEU:HD13	1.79	0.64
36:5:1682:U:O2	58:n2:82:LYS:NZ	2.28	0.64
36:5:2518:C:H2'	36:5:2519:A:H8	1.62	0.64
46:l9:36:LYS:NZ	46:l9:152:GLU:OE1	2.27	0.64
48:m1:110:ILE:HD13	48:m1:122:ILE:HD11	1.78	0.64
59:n3:86:ARG:HG3	59:n3:92:PHE:CE2	2.32	0.64
1:2:45:U:O2'	1:2:46:A:H2'	1.98	0.64
1:2:207:U:O2	10:S8:178:ARG:NH1	2.31	0.64
3:S1:168:ILE:HG12	3:S1:197:ILE:HD12	1.79	0.64
5:S3:70:THR:HG22	5:S3:86:LEU:HB2	1.79	0.64
9:S7:98:ILE:HD13	9:S7:118:LEU:HD22	1.79	0.64
11:S9:38:ASN:HB2	11:S9:41:GLU:HG3	1.78	0.64
18:C6:114:ARG:H	18:C6:116:LEU:HD22	1.63	0.64
34:SR:159:ASN:ND2	34:SR:166:SER:O	2.30	0.64
36:1:1626:U:O4	86:1:3695:OHX:N3	2.31	0.64
37:3:60:G:H2'	37:3:61:G:C8	2.33	0.64
54:M8:64:VAL:HG13	54:M8:93:ILE:HD11	1.79	0.64
21:c9:52:GLY:HA2	21:c9:55:TYR:HD2	1.61	0.64
36:5:75:G:H5"	49:m3:58:VAL:HG13	1.79	0.64
36:5:955:U:H2'	36:5:956:U:C6	2.31	0.64
40:l3:47:LEU:HG	40:l3:335:ILE:HD11	1.80	0.64
25:D3:92:CYS:HG	25:D3:136:TRP:CD1	2.16	0.64
52:M6:15:LEU:HD21	52:M6:125:ARG:HG3	1.80	0.64
1:6:542:A:C8	1:6:543:C:H2'	2.32	0.64
1:6:1280:C:H2'	1:6:1281:G:H8	1.62	0.64
12:c0:44:LYS:HA	12:c0:47:GLN:HB3	1.79	0.64
1:2:814:A:H5"	55:M9:170:ARG:HH22	1.61	0.64
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.80	0.64
1:6:918:U:H2'	1:6:919:A:C8	2.32	0.64
1:6:1649:G:N7	86:6:1964:OHX:N2	2.45	0.64
10:s8:69:SER:OG	10:s8:185:GLU:OE2	2.11	0.64
36:5:541:U:O4	86:5:3515:OHX:N3	2.31	0.64
36:5:955:U:H2'	36:5:956:U:H6	1.63	0.64
36:5:1754:G:OP1	86:5:3577:OHX:N2	2.30	0.64
36:5:2880:U:H1'	40:l3:250:ALA:HB3	1.77	0.64
67:o1:75:ILE:HG12	67:o1:93:VAL:HG13	1.78	0.64
70:o4:102:LYS:HB3	70:o4:103:LYS:HE3	1.78	0.64
1:2:623:A:OP1	86:2:2021:OHX:N4	2.31	0.64
1:2:1338:C:H1'	1:2:1410:A:C4	2.33	0.64
1:2:1606:C:H2'	1:2:1607:G:C8	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1413:G:N7	86:1:3653:OHX:N4	2.45	0.64
13:c1:21:ASN:OD1	13:c1:21:ASN:N	2.30	0.64
36:5:1814:A:OP1	86:5:3675:OHX:N3	2.31	0.64
41:l4:328:ASN:OD1	44:l7:48:ASN:ND2	2.29	0.64
51:m5:31:ARG:NH1	51:m5:124:ASP:OD1	2.31	0.64
61:n5:132:ALA:HA	61:n5:135:ILE:HG22	1.79	0.64
70:o4:44:CYS:SG	70:o4:81:CYS:HB3	2.38	0.64
1:2:1435:G:N7	12:C0:25:LYS:NZ	2.46	0.64
1:2:1483:A:H2'	1:2:1484:G:C8	2.32	0.64
2:S0:32:HIS:ND1	2:S0:32:HIS:O	2.31	0.64
30:D8:27:GLN:NE2	30:D8:64:ARG:O	2.31	0.64
56:N0:167:ARG:HG3	56:N0:168:PRO:HD2	1.80	0.64
59:N3:40:LYS:HG3	59:N3:57:MET:HG2	1.80	0.64
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.30	0.64
1:6:753:A:OP2	6:s4:187:ARG:NH1	2.31	0.64
1:6:1534:G:N7	27:d5:77:ARG:NH2	2.45	0.64
4:s2:41:LEU:HD13	4:s2:68:ILE:HD13	1.78	0.64
28:d6:87:ARG:NH2	28:d6:91:ASP:O	2.31	0.64
36:5:1236:G:N2	36:5:1244:A:OP1	2.30	0.64
36:5:2840:C:OP1	86:5:3637:OHX:N3	2.29	0.64
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	1.79	0.64
36:1:2347:U:O4	86:1:3429:OHX:N3	2.31	0.64
36:1:3253:G:N7	86:1:3591:OHX:N1	2.45	0.64
44:L7:25:GLN:H	44:L7:28:ALA:HB3	1.62	0.64
22:d0:20:ILE:HD12	22:d0:100:VAL:HG21	1.80	0.64
37:7:121:U:OP2	42:l5:265:TYR:OH	2.11	0.64
37:7:121:U:H5"	42:l5:265:TYR:HE1	1.63	0.64
41:l4:222:VAL:HG22	41:l4:225:VAL:HB	1.80	0.64
1:2:767:U:H6	11:S9:141:VAL:HA	1.62	0.63
3:S1:175:GLU:HG3	3:S1:193:ILE:HG23	1.80	0.63
4:S2:98:PHE:CZ	35:SM:116:GLU:HG3	2.33	0.63
4:S2:137:ILE:HG12	4:S2:138:PRO:HD2	1.80	0.63
9:S7:48:GLU:HG2	9:S7:56:LYS:HD3	1.80	0.63
36:1:2314:U:O2'	36:1:2315:G:OP1	2.15	0.63
36:1:3361:G:O6	86:1:3685:OHX:N6	2.32	0.63
1:6:417:A:H4'	1:6:418:G:O5'	1.98	0.63
1:6:488:G:H21	1:6:499:U:H3	1.44	0.63
1:6:488:G:N2	1:6:499:U:H3	1.95	0.63
36:5:916:G:C6	39:l2:207:VAL:HG11	2.34	0.63
36:5:1877:U:H5"	36:5:1878:G:H5'	1.80	0.63
36:5:2522:G:O6	39:l2:70:ARG:NH2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3155:U:H4'	36:5:3156:U:OP2	1.98	0.63
81:l8:150:LEU:HD23	81:l8:176:PRO:HB2	1.79	0.63
52:m6:27:LEU:HD22	52:m6:101:ARG:HB2	1.79	0.63
1:2:229:U:H3	1:2:236:A:H61	1.46	0.63
7:S5:57:SER:O	7:S5:59:VAL:N	2.27	0.63
36:1:3060:C:OP1	86:1:3576:OHX:N4	2.31	0.63
1:6:523:G:H5'	26:d4:60:PHE:O	1.98	0.63
1:6:1537:C:O2'	1:6:1540:G:O6	2.14	0.63
4:s2:140:ARG:NH1	23:d1:10:GLU:OE1	2.31	0.63
24:d2:57:ARG:NH2	29:d7:26:GLN:OE1	2.31	0.63
36:5:328:U:O4	86:8:206:OHX:N1	2.31	0.63
36:5:3068:U:OP2	55:m9:62:ARG:NH2	2.30	0.63
36:5:3328:G:OP1	40:l3:385:LYS:NZ	2.31	0.63
42:l5:184:ASP:OD2	42:l5:187:THR:OG1	2.16	0.63
1:2:1202:A:N6	1:2:1457:C:H5"	2.13	0.63
1:2:1537:C:N3	86:2:2019:OHX:N3	2.47	0.63
86:2:2003:OHX:N6	10:S8:52:ASN:OD1	2.32	0.63
2:S0:185:ARG:HB2	23:D1:45:ALA:HB3	1.80	0.63
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.63	0.63
36:1:3169:U:H2'	36:1:3170:A:O4'	1.98	0.63
11:s9:20:GLU:O	11:s9:24:LEU:HG	1.98	0.63
12:c0:50:THR:HG22	12:c0:55:VAL:HG22	1.79	0.63
1:2:1041:G:H2'	1:2:1042:G:C8	2.34	0.63
36:1:1362:G:OP1	86:1:3569:OHX:N6	2.31	0.63
36:1:1639:C:N4	70:O4:73:SER:HB2	2.13	0.63
43:L6:58:LEU:HD12	43:L6:78:ARG:HD3	1.80	0.63
52:M6:127:LEU:HD22	56:N0:156:VAL:HG23	1.80	0.63
1:6:1219:A:N3	12:c0:51:SER:OG	2.31	0.63
36:5:1393:A:N3	36:5:1419:A:O2'	2.31	0.63
36:5:2766:U:OP2	86:5:3535:OHX:N1	2.31	0.63
78:q2:46:LYS:O	86:q2:502:OHX:N3	2.31	0.63
3:S1:137:ILE:HD11	3:S1:172:LEU:HB3	1.80	0.63
6:S4:19:LEU:HD11	6:S4:108:ARG:HD2	1.81	0.63
24:D2:29:PRO:HB2	24:D2:58:SER:HB2	1.79	0.63
36:1:2112:U:H4'	36:1:2113:A:H5'	1.80	0.63
36:1:2659:G:N7	86:1:3416:OHX:N1	2.47	0.63
1:6:578:U:O2	86:6:2004:OHX:N3	2.31	0.63
36:5:339:C:OP1	36:5:1380:G:O2'	2.16	0.63
54:m8:178:ARG:HD3	64:n8:50:PRO:HB2	1.79	0.63
58:n2:43:VAL:HG23	58:n2:49:ASN:HB3	1.81	0.63
64:n8:114:GLY:O	64:n8:137:LYS:NZ	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:o2:100:ILE:O	68:o2:105:ARG:NH1	2.32	0.63
3:S1:173:THR:O	3:S1:177:GLN:NE2	2.27	0.63
36:1:1564:U:H2'	36:1:1565:G:C8	2.33	0.63
64:N8:94:ALA:HB1	64:N8:121:VAL:HA	1.80	0.63
1:6:1160:A:OP2	86:6:2027:OHX:N2	2.32	0.63
34:sR:38:ARG:HA	34:sR:67:ILE:HG23	1.80	0.63
36:5:744:A:OP1	54:m8:66:ARG:NH2	2.31	0.63
49:m3:166:ALA:HB1	64:n8:147:LEU:HD21	1.81	0.63
70:o4:8:ARG:HH21	70:o4:31:ARG:HH11	1.46	0.63
1:2:715:U:H3	1:2:723:G:H1	1.47	0.63
1:2:1358:G:H2'	1:2:1359:C:C6	2.34	0.63
6:S4:187:ARG:O	6:S4:187:ARG:HD3	1.98	0.63
9:S7:86:GLN:HG2	9:S7:87:ASP:H	1.64	0.63
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.80	0.63
19:C7:71:PHE:HD1	19:C7:73:LEU:HB3	1.63	0.63
22:D0:17:GLN:HB3	22:D0:96:PRO:CB	2.28	0.63
22:D0:27:THR:HB	22:D0:88:LYS:HG3	1.81	0.63
36:1:1240:A:H61	36:1:1244:A:H5"	1.64	0.63
36:1:2137:U:OP2	36:1:2142:A:N6	2.31	0.63
36:1:3375:A:O2'	36:1:3378:C:OP2	2.17	0.63
42:L5:40:HIS:CD2	42:L5:42:ALA:H	2.10	0.63
27:d5:66:VAL:HA	27:d5:71:ILE:HG22	1.80	0.63
41:l4:354:VAL:O	41:l4:358:THR:HG23	1.97	0.63
42:l5:148:ILE:HG23	42:l5:151:GLN:HB3	1.80	0.63
53:m7:136:ILE:O	53:m7:137:ASN:ND2	2.32	0.63
1:2:1316:G:O2'	1:2:1401:A:O2'	2.17	0.63
21:C9:53:TRP:HA	21:C9:56:LYS:HB2	1.81	0.63
30:D8:10:ALA:HA	30:D8:32:PHE:HA	1.81	0.63
36:1:353:G:N7	73:O7:55:ARG:HD3	2.14	0.63
36:1:425:G:O6	86:1:3411:OHX:N6	2.31	0.63
36:1:2969:A:N7	39:L2:215:ASN:ND2	2.47	0.63
53:M7:125:GLN:HB2	53:M7:141:SER:HB2	1.80	0.63
54:M8:157:PRO:HD3	64:N8:47:LYS:HB2	1.81	0.63
67:O1:23:VAL:O	67:O1:28:ARG:NH1	2.32	0.63
1:6:738:G:O6	86:6:1929:OHX:N2	2.32	0.63
12:c0:30:ALA:O	12:c0:31:LYS:HB2	1.98	0.63
27:d5:86:GLU:HG3	27:d5:87:GLY:H	1.64	0.63
34:sR:297:ASP:OD2	34:sR:297:ASP:N	2.32	0.63
36:5:2736:A:OP1	57:n1:92:ARG:NH1	2.32	0.63
36:5:2749:G:N7	86:5:3658:OHX:N1	2.47	0.63
36:5:2823:G:O6	86:5:3454:OHX:N2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:m6:110:PRO:O	52:m6:113:ASP:N	2.22	0.63
1:2:326:G:OP1	13:C1:57:LYS:NZ	2.31	0.63
36:1:3103:A:OP2	86:1:3690:OHX:N6	2.32	0.63
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.80	0.63
1:6:79:C:OP1	8:s6:159:ARG:NH2	2.28	0.63
1:6:152:U:O2	1:6:163:G:N2	2.32	0.63
1:6:1041:G:OP1	86:6:2021:OHX:N4	2.32	0.63
7:s5:37:GLN:HE21	18:c6:46:PHE:HE1	1.46	0.63
27:d5:71:ILE:HG21	27:d5:76:ALA:HB2	1.80	0.63
36:5:209:A:OP1	41:l4:161:LYS:NZ	2.31	0.63
36:5:217:U:O2	62:n6:103:LYS:NZ	2.25	0.63
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.80	0.62
36:1:2571:U:O2'	36:1:2572:C:O2	2.16	0.62
62:N6:83:ASP:O	62:N6:84:LYS:HB2	1.97	0.62
1:6:654:C:H2'	1:6:655:G:C8	2.34	0.62
6:s4:95:THR:HG23	6:s4:97:GLU:HG3	1.81	0.62
36:5:2169:G:O6	86:5:3455:OHX:N5	2.32	0.62
36:5:2677:G:OP2	86:5:3654:OHX:N5	2.32	0.62
36:5:3139:A:OP2	40:l3:30:LYS:NZ	2.28	0.62
41:l4:234:ASN:OD1	41:l4:236:LEU:N	2.32	0.62
1:2:66:U:H5'	8:S6:173:PRO:HA	1.80	0.62
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.81	0.62
36:1:917:A:OP2	86:1:3669:OHX:N2	2.33	0.62
86:1:3450:OHX:N6	51:M5:32:GLN:O	2.32	0.62
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.35	0.62
34:sR:159:ASN:C	34:sR:161:LYS:H	2.07	0.62
36:5:1765:U:H4'	36:5:1765:U:OP1	1.98	0.62
10:S8:147:ALA:C	10:S8:149:SER:N	2.55	0.62
18:C6:127:LYS:HA	18:C6:134:ALA:HA	1.82	0.62
36:1:2208:A:N1	86:1:3581:OHX:N2	2.47	0.62
36:1:2775:U:H2'	36:1:2776:C:H6	1.64	0.62
41:L4:226:GLU:OE1	41:L4:237:GLN:NE2	2.32	0.62
49:M3:165:SER:O	49:M3:167:PHE:N	2.31	0.62
9:s7:25:VAL:HA	9:s7:28:GLU:HB2	1.81	0.62
80:sM:64:LYS:C	80:sM:66:ALA:H	2.06	0.62
36:5:110:G:OP2	49:m3:73:ARG:NH1	2.31	0.62
53:m7:125:GLN:HB2	53:m7:141:SER:HB2	1.80	0.62
2:S0:189:VAL:HG22	2:S0:190:ASP:H	1.62	0.62
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.63	0.62
10:S8:39:GLY:HA2	10:S8:61:GLU:HB3	1.82	0.62
12:C0:27:PHE:HB3	12:C0:40:LEU:HD23	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3155:U:H3'	36:1:3156:U:H4'	1.80	0.62
1:6:594:A:H4'	1:6:595:G:H5'	1.80	0.62
1:6:1639:C:OP1	86:6:2006:OHX:N5	2.33	0.62
80:sM:23:LYS:HZ2	80:sM:24:GLU:H	1.47	0.62
65:n9:16:ALA:O	65:n9:20:GLY:HA3	2.00	0.62
1:2:290:G:O6	86:2:2018:OHX:N6	2.31	0.62
4:S2:148:LEU:HA	23:D1:4:ASP:HB2	1.81	0.62
25:D3:24:TRP:HE3	25:D3:30:LYS:HD3	1.64	0.62
34:SR:80:ALA:HB3	34:SR:92:TRP:HB2	1.82	0.62
39:L2:40:TYR:HA	39:L2:91:GLY:HA3	1.81	0.62
1:6:1518:C:OP2	86:6:1996:OHX:N1	2.33	0.62
1:6:1699:G:H22	1:6:1702:A:H5"	1.64	0.62
2:s0:55:GLU:HG2	23:d1:79:LEU:HD22	1.81	0.62
14:C2:94:ALA:HB1	14:C2:119:SER:H	1.65	0.62
36:1:1145:G:OP1	68:O2:44:ARG:NH1	2.31	0.62
36:1:1240:A:H3'	36:1:1241:U:H5'	1.82	0.62
36:1:2663:G:H5'	42:L5:152:ARG:HD3	1.81	0.62
36:1:3035:A:OP2	86:1:3608:OHX:N4	2.33	0.62
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.64	0.62
51:M5:143:ARG:NH2	71:O5:90:ARG:O	2.32	0.62
63:N7:104:PRO:O	63:N7:108:GLU:HG3	1.99	0.62
1:6:637:C:O2	9:s7:114:ARG:NH2	2.30	0.62
1:6:1350:U:H2'	1:6:1351:G:H8	1.62	0.62
7:s5:123:VAL:HG13	27:d5:102:THR:HG23	1.82	0.62
21:c9:10:ALA:HB3	21:c9:13:ASP:HB2	1.81	0.62
36:5:3122:A:N1	46:l9:70:THR:HG21	2.15	0.62
81:l8:161:GLU:HA	81:l8:164:VAL:HG22	1.82	0.62
61:n5:57:LEU:HD23	61:n5:61:LYS:HG2	1.80	0.62
1:2:75:U:H2'	1:2:76:A:O4'	2.00	0.62
15:C3:23:PRO:HD2	15:C3:26:PHE:HB3	1.81	0.62
20:C8:30:TYR:O	20:C8:33:THR:OG1	2.18	0.62
35:SM:139:GLU:HG2	35:SM:140:ASP:N	2.15	0.62
36:1:39:A:H5"	64:N8:35:ALA:HB2	1.81	0.62
36:1:274:G:O6	86:1:3528:OHX:N2	2.32	0.62
36:1:317:A:OP2	72:O6:30:LYS:NZ	2.32	0.62
41:L4:265:GLU:OE1	41:L4:265:GLU:N	2.32	0.62
55:M9:130:ASN:C	55:M9:132:PHE:H	2.07	0.62
1:6:845:G:H2'	1:6:846:G:H8	1.63	0.62
36:5:1599:G:OP1	86:5:3577:OHX:N4	2.32	0.62
36:5:2425:G:OP2	51:m5:90:ASN:ND2	2.30	0.62
46:l9:20:ILE:HG12	46:l9:25:VAL:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:m1:109:HIS:CD2	48:m1:114:ILE:HG21	2.34	0.62
59:n3:13:ILE:HG12	59:n3:14:SER:N	2.14	0.62
1:2:1487:A:H2'	1:2:1488:G:H8	1.63	0.62
1:2:1649:G:N7	86:2:1929:OHX:N1	2.48	0.62
7:S5:145:ASP:OD2	7:S5:146:THR:N	2.24	0.62
8:S6:163:THR:HG22	8:S6:168:THR:HG22	1.81	0.62
11:S9:92:LYS:HA	11:S9:92:LYS:HE3	1.82	0.62
16:C4:114:ARG:HE	28:D6:62:TYR:HE1	1.47	0.62
5:s3:37:VAL:HG12	5:s3:50:ILE:HA	1.82	0.62
20:c8:52:VAL:HG21	20:c8:69:ILE:HD11	1.80	0.62
38:8:67:U:H5"	73:o7:85:LYS:HB2	1.82	0.62
1:2:1202:A:OP1	86:2:1984:OHX:N1	2.33	0.62
13:C1:17:PRO:HG3	13:C1:63:LEU:HD11	1.80	0.62
36:1:13:A:H5"	36:1:13:A:H8	1.63	0.62
36:1:528:U:H2'	36:1:529:A:C8	2.35	0.62
63:N7:46:ILE:HD11	63:N7:49:TYR:HA	1.82	0.62
1:6:885:G:N3	16:c4:123:SER:OG	2.33	0.62
36:5:145:G:O6	86:5:3520:OHX:N5	2.33	0.62
36:5:1815:U:O2'	36:5:1816:A:OP2	2.18	0.62
36:5:2254:U:H2'	36:5:2261:G:N2	2.15	0.62
36:5:2841:G:OP2	86:5:3637:OHX:N1	2.32	0.62
36:5:3275:U:OP1	36:5:3275:U:H6	1.82	0.62
41:l4:361:HIS:CG	41:l4:362:ASP:H	2.17	0.62
42:l5:64:ILE:HG13	42:l5:109:THR:HG21	1.81	0.62
48:m1:28:ASP:OD2	48:m1:32:ARG:NH2	2.32	0.62
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.32	0.62
9:S7:67:LEU:O	9:S7:70:PHE:N	2.33	0.62
36:1:900:G:H1'	36:1:1589:A:N6	2.15	0.62
66:O0:58:TYR:OH	70:O4:97:GLU:OE2	2.15	0.62
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.82	0.62
1:6:486:G:O6	1:6:488:G:N2	2.31	0.62
1:6:500:C:O2'	1:6:501:U:O4'	2.18	0.62
1:6:1795:U:OP2	28:d6:5:ARG:NH2	2.29	0.62
14:c2:40:GLY:O	14:c2:124:LYS:N	2.32	0.62
62:n6:32:SER:HA	62:n6:49:PRO:HA	1.82	0.62
66:o0:22:LYS:HD3	66:o0:94:GLU:HG3	1.82	0.62
66:o0:57:GLU:OE1	66:o0:69:TYR:OH	2.18	0.62
1:2:1796:C:OP2	28:D6:5:ARG:NH1	2.32	0.61
19:C7:115:LEU:HD13	19:C7:116:LYS:H	1.65	0.61
21:C9:86:ARG:HH11	21:C9:86:ARG:HG3	1.65	0.61
34:SR:105:GLY:N	34:SR:134:TRP:HH2	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2108:C:H1'	36:1:3344:A:C8	2.35	0.61
39:L2:192:LYS:HB3	39:L2:193:ARG:NH2	2.15	0.61
42:L5:85:ARG:NH1	42:L5:250:ASP:O	2.33	0.61
49:M3:168:ARG:HA	49:M3:171:ARG:HB2	1.80	0.61
67:O1:19:ARG:HD3	67:O1:35:GLU:HG2	1.82	0.61
1:6:188:A:H2'	1:6:189:C:O4'	2.00	0.61
22:d0:72:ASN:HD22	22:d0:73:GLY:H	1.49	0.61
34:sR:22:SER:OG	34:sR:69:GLN:O	2.17	0.61
37:7:100:C:OP2	56:n0:52:LYS:NZ	2.31	0.61
64:n8:6:THR:HG22	64:n8:9:ARG:HG2	1.81	0.61
86:4:206:OHX:N2	73:O7:62:GLY:O	2.33	0.61
50:M4:60:LEU:HD13	56:N0:152:LEU:HD11	1.81	0.61
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.14	0.61
1:6:478:A:O2'	11:s9:124:HIS:HD2	1.83	0.61
36:5:1381:A:OP1	41:l4:197:ARG:NH1	2.33	0.61
36:5:1839:A:OP1	86:5:3534:OHX:N3	2.33	0.61
41:l4:342:LYS:O	41:l4:342:LYS:HG3	1.99	0.61
44:l7:229:PHE:C	44:l7:229:PHE:HD1	2.09	0.61
51:m5:98:LEU:HD23	51:m5:128:LYS:HD2	1.81	0.61
62:n6:87:LYS:HB2	62:n6:97:ILE:HD11	1.82	0.61
13:C1:6:THR:C	13:C1:8:GLN:H	2.07	0.61
18:C6:38:LEU:O	18:C6:40:GLU:N	2.33	0.61
29:D7:50:ALA:HB2	29:D7:71:ALA:HB2	1.81	0.61
36:1:595:G:H1	36:1:609:G:H5"	1.66	0.61
36:1:1014:U:H2'	36:1:1015:U:H5"	1.81	0.61
36:1:1605:A:O2'	36:1:1607:U:OP2	2.08	0.61
36:1:3148:U:O4	86:1:3641:OHX:N5	2.33	0.61
41:L4:182:LEU:HD13	41:L4:223:PRO:HG2	1.82	0.61
1:6:459:G:OP1	26:d4:109:LYS:NZ	2.29	0.61
1:6:753:A:N7	6:s4:187:ARG:NH2	2.48	0.61
14:c2:36:LEU:HG	14:c2:41:LEU:HD12	1.82	0.61
19:c7:14:LYS:HG3	19:c7:69:ILE:HG23	1.82	0.61
36:5:300:G:O6	86:5:3684:OHX:N2	2.33	0.61
36:5:2618:G:H5'	47:m0:116:ARG:HH21	1.64	0.61
36:5:2940:A:N7	40:l3:2:SER:HA	2.15	0.61
63:n7:36:HIS:CD2	63:n7:74:VAL:HG11	2.36	0.61
4:S2:178:ILE:HD12	4:S2:189:GLN:HG3	1.82	0.61
14:C2:124:LYS:O	14:C2:126:TRP:N	2.28	0.61
17:C5:110:GLU:HG3	20:C8:119:ILE:HD11	1.82	0.61
36:1:314:U:O4	86:1:3675:OHX:N4	2.34	0.61
36:1:1495:U:H5	36:1:1835:A:N1	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2593:A:H4'	36:1:2594:C:O5'	2.00	0.61
40:L3:77:THR:HG23	40:L3:326:GLY:O	2.00	0.61
44:L7:88:ARG:HD2	44:L7:90:LYS:O	1.99	0.61
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.33	0.61
63:N7:53:VAL:HG11	63:N7:62:VAL:HG13	1.82	0.61
1:6:565:C:O2	86:6:2009:OHX:N4	2.33	0.61
25:d3:125:VAL:HG12	25:d3:126:LYS:HG3	1.82	0.61
36:5:1659:U:O4	86:5:3690:OHX:N4	2.32	0.61
36:5:2258:U:OP2	86:5:3449:OHX:N4	2.34	0.61
36:5:3195:U:H1'	36:5:3196:U:OP1	2.01	0.61
68:o2:11:LYS:O	68:o2:12:LYS:HB2	2.00	0.61
1:2:993:A:OP1	1:2:1777:G:N2	2.31	0.61
27:D5:39:ALA:HB1	27:D5:72:GLY:H	1.65	0.61
36:1:3312:U:H5"	40:L3:25:ILE:HD12	1.82	0.61
36:1:3377:G:OP2	86:1:3697:OHX:N2	2.33	0.61
41:L4:193:LYS:HA	41:L4:198:ARG:HA	1.81	0.61
3:s1:154:SER:O	3:s1:154:SER:OG	2.13	0.61
36:5:330:G:OP2	86:5:3550:OHX:N5	2.34	0.61
36:5:3377:G:O6	86:5:3589:OHX:N4	2.34	0.61
39:l2:27:ALA:O	39:l2:128:ARG:NH2	2.34	0.61
40:l3:13:HIS:HB3	40:l3:16:PHE:HD1	1.65	0.61
49:m3:162:ASN:HD21	49:m3:164:GLU:HB2	1.65	0.61
3:S1:34:ALA:N	3:S1:41:ARG:O	2.31	0.61
19:C7:34:LEU:O	19:C7:38:ILE:HG22	2.01	0.61
21:C9:125:SER:OG	21:C9:128:GLY:N	2.31	0.61
33:E1:144:CYS:HB3	33:E1:147:VAL:HB	1.82	0.61
34:SR:112:SER:OG	34:SR:153:GLN:OE1	2.18	0.61
36:1:2318:U:O4	86:1:3577:OHX:N2	2.34	0.61
36:1:2895:G:H2'	36:1:2896:A:H5"	1.83	0.61
44:L7:185:ILE:O	44:L7:189:ILE:HG22	2.00	0.61
53:M7:92:GLN:HA	53:M7:95:LEU:HB2	1.80	0.61
66:O0:46:ALA:HB2	66:O0:72:GLY:H	1.64	0.61
1:6:1112:G:OP1	77:q1:6:ARG:NH2	2.34	0.61
1:6:1154:G:N7	86:6:1988:OHX:N2	2.49	0.61
1:6:1797:A:C6	28:d6:84:VAL:HG22	2.35	0.61
36:5:1781:C:H2'	36:5:1782:U:C6	2.35	0.61
44:l7:158:LYS:HD2	44:l7:159:GLN:N	2.14	0.61
1:2:1520:U:O2	86:2:1937:OHX:N5	2.34	0.61
6:S4:193:GLY:HA3	6:S4:210:ILE:CG2	2.31	0.61
7:S5:51:VAL:HB	7:S5:131:GLN:HB2	1.83	0.61
9:S7:63:PRO:O	9:S7:64:VAL:HG23	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2386:A:OP1	86:1:3561:OHX:N4	2.34	0.61
36:1:2613:U:OP1	86:1:3696:OHX:N3	2.33	0.61
1:6:129:U:O2	86:6:1914:OHX:N2	2.34	0.61
1:6:484:C:N4	1:6:503:G:H1	1.97	0.61
1:6:1478:G:OP2	21:c9:43:ASN:ND2	2.34	0.61
16:c4:85:ALA:HB2	16:c4:94:PRO:HA	1.81	0.61
19:c7:47:ARG:NH1	19:c7:48:ASN:OD1	2.31	0.61
19:c7:104:ASN:C	19:c7:106:THR:H	2.08	0.61
36:5:63:A:OP1	51:m5:172:ARG:NH2	2.34	0.61
36:5:1334:U:H5'	44:l7:207:LEU:O	2.00	0.61
36:5:3031:G:O6	86:5:3586:OHX:N3	2.34	0.61
59:n3:2:SER:OG	59:n3:3:GLY:N	2.29	0.61
1:2:116:U:H2'	1:2:117:U:C6	2.36	0.61
1:2:1034:C:HO2'	24:D2:2:THR:N	1.98	0.61
1:2:1429:G:H1'	22:D0:74:GLU:HG2	1.83	0.61
1:2:1542:G:H22	1:2:1568:C:H1'	1.65	0.61
5:S3:59:LEU:O	5:S3:65:ARG:N	2.33	0.61
10:S8:195:ARG:O	10:S8:199:LYS:HB3	2.00	0.61
36:1:44:U:H5"	51:M5:85:THR:HG23	1.83	0.61
36:1:1307:G:H5"	52:M6:60:LYS:HZ2	1.65	0.61
36:1:3049:A:H5'	36:1:3049:A:H8	1.65	0.61
39:L2:44:ILE:HD12	39:L2:62:VAL:HB	1.83	0.61
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.01	0.61
1:6:330:G:OP2	10:s8:172:ARG:NH1	2.34	0.61
28:d6:87:ARG:HB3	28:d6:91:ASP:HB2	1.83	0.61
32:e0:51:ASN:HB3	32:e0:53:LYS:HG2	1.82	0.61
34:sR:256:THR:N	34:sR:259:GLY:O	2.34	0.61
36:5:863:C:OP1	86:5:3418:OHX:N3	2.34	0.61
36:5:2696:A:H2'	36:5:2697:A:C8	2.35	0.61
86:5:3480:OHX:N4	51:m5:204:LYS:O	2.34	0.61
40:l3:159:ARG:HG2	40:l3:182:GLN:HA	1.83	0.61
40:l3:239:PRO:O	40:l3:242:THR:HG23	2.01	0.61
57:n1:36:VAL:HA	57:n1:64:VAL:HG22	1.83	0.61
1:2:1191:U:H4'	18:C6:143:ARG:HB3	1.82	0.61
5:S3:27:ARG:HD2	12:C0:60:SER:HB2	1.82	0.61
6:S4:151:ASP:HB3	6:S4:154:ILE:HG13	1.82	0.61
7:S5:37:GLN:OE1	18:C6:53:LEU:HD22	2.01	0.61
36:1:1631:C:H5"	36:1:1632:A:H5"	1.83	0.61
36:1:3115:C:OP1	46:L9:62:ARG:NH2	2.33	0.61
44:L7:143:THR:HG22	44:L7:241:LYS:HE3	1.83	0.61
45:L8:84:ARG:HE	45:L8:84:ARG:H	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:48:VAL:HG13	46:L9:52:LEU:HB3	1.83	0.61
34:sR:157:VAL:HB	34:sR:168:THR:HG22	1.83	0.61
36:5:1239:C:N3	36:5:1249:G:N2	2.48	0.61
83:n4:39:LEU:HD12	83:n4:44:LYS:HG3	1.82	0.61
84:p0:189:GLN:OE1	84:p0:196:VAL:HG22	2.01	0.61
36:1:149:U:OP2	51:M5:49:ARG:NH2	2.34	0.61
36:1:1433:A:N3	68:O2:27:ARG:NH1	2.48	0.61
1:6:1207:C:H42	1:6:1456:C:H5	1.49	0.61
6:s4:161:LYS:HB3	6:s4:170:THR:O	2.00	0.61
57:n1:17:ARG:HG2	57:n1:17:ARG:HH11	1.65	0.61
1:2:322:G:O2'	10:S8:10:LYS:NZ	2.32	0.60
1:2:477:A:H61	1:2:511:A:H61	1.48	0.60
3:S1:104:ASP:HA	3:S1:214:LYS:HE2	1.82	0.60
36:1:1753:G:N7	86:1:3583:OHX:N6	2.48	0.60
38:4:79:A:H2'	38:4:80:A:H1'	1.83	0.60
40:L3:232:ARG:HG2	40:L3:233:TRP:CD1	2.36	0.60
46:L9:12:VAL:HB	46:L9:51:GLN:HA	1.82	0.60
53:M7:29:THR:HG22	53:M7:87:SER:OG	2.00	0.60
59:N3:129:VAL:O	59:N3:133:SER:OG	2.13	0.60
1:6:629:U:OP1	15:c3:127:ARG:NH2	2.34	0.60
1:6:1050:G:O6	86:6:2036:OHX:N4	2.35	0.60
7:s5:43:PHE:CZ	7:s5:90:ILE:HG21	2.36	0.60
17:c5:130:ARG:NH1	80:sM:71:ASN:OD1	2.34	0.60
19:c7:28:PHE:HA	19:c7:55:THR:HG21	1.83	0.60
20:c8:120:ARG:HE	80:sM:61:ILE:HD12	1.66	0.60
26:d4:122:GLY:O	26:d4:125:LEU:N	2.32	0.60
36:5:394:G:N1	36:5:397:A:OP2	2.34	0.60
40:l3:140:ASP:OD2	40:l3:140:ASP:N	2.34	0.60
1:2:355:G:OP2	86:2:1914:OHX:N4	2.34	0.60
1:2:930:A:OP1	28:D6:32:LYS:NZ	2.33	0.60
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.36	0.60
36:1:801:A:OP1	64:N8:27:LYS:NZ	2.32	0.60
36:1:944:C:H4'	68:O2:33:ARG:HH11	1.66	0.60
36:1:3353:G:H4'	36:1:3354:U:OP2	2.01	0.60
50:M4:135:LEU:HD11	52:M6:178:VAL:HG22	1.81	0.60
71:O5:85:THR:HB	71:O5:88:LEU:HD12	1.84	0.60
36:5:2818:U:H5'	36:5:2818:U:H6	1.67	0.60
40:l3:81:THR:HG22	40:l3:321:PHE:HA	1.83	0.60
42:l5:265:TYR:O	42:l5:269:SER:N	2.28	0.60
49:m3:62:THR:O	49:m3:64:LYS:N	2.34	0.60
84:p0:56:ASN:HB3	84:p0:60:ARG:NH2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:51:THR:HG22	4:S2:52:THR:HG23	1.82	0.60
6:S4:129:VAL:HB	6:S4:139:VAL:HG23	1.83	0.60
36:1:198:A:N3	36:1:218:G:O2'	2.34	0.60
36:1:541:U:O4	86:1:3708:OHX:N2	2.34	0.60
36:1:1763:U:H5'	36:1:1764:U:OP2	2.02	0.60
55:M9:8:LYS:HD2	55:M9:22:VAL:HG23	1.82	0.60
36:5:228:U:H5"	62:n6:8:VAL:HG21	1.84	0.60
36:5:1230:G:OP2	86:5:3509:OHX:N6	2.34	0.60
36:5:1654:A:H2'	36:5:1655:G:H5"	1.82	0.60
86:5:3504:OHX:N3	44:l7:217:PRO:O	2.34	0.60
46:l9:95:ALA:O	76:q0:77:ILE:HG12	2.00	0.60
47:m0:76:MET:HE3	47:m0:151:GLY:HA3	1.83	0.60
49:m3:140:SER:HG	49:m3:143:ALA:H	1.47	0.60
1:2:1494:C:H2'	1:2:1495:C:H6	1.66	0.60
4:S2:129:ILE:O	4:S2:133:LYS:HG2	2.02	0.60
15:C3:99:ARG:O	15:C3:103:GLU:HG2	2.02	0.60
36:1:424:G:O2'	68:O2:23:ASP:OD2	2.19	0.60
41:L4:145:ILE:HD11	41:L4:148:ILE:HG13	1.82	0.60
46:L9:88:TYR:CE2	46:L9:184:LYS:HG2	2.36	0.60
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.83	0.60
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.02	0.60
1:6:66:U:H5	8:s6:173:PRO:HG3	1.65	0.60
1:6:152:U:C2	1:6:163:G:N2	2.68	0.60
36:5:1506:A:H1'	36:5:1848:G:O6	2.01	0.60
36:5:1727:G:OP1	79:q3:44:LYS:NZ	2.27	0.60
38:8:77:A:H2'	38:8:78:G:O4'	2.02	0.60
39:l2:178:PRO:HD2	79:q3:26:VAL:HG23	1.82	0.60
40:l3:232:ARG:NH1	40:l3:269:GLN:O	2.34	0.60
1:2:1291:G:H22	1:2:1324:G:H22	1.47	0.60
1:2:1417:A:OP1	86:2:1949:OHX:N5	2.34	0.60
1:2:1525:A:OP1	21:C9:93:HIS:ND1	2.33	0.60
1:2:1695:G:H21	1:2:1706:C:H41	1.48	0.60
20:C8:27:LYS:HA	20:C8:57:ARG:HA	1.84	0.60
36:1:277:G:OP1	86:1:3413:OHX:N5	2.35	0.60
36:1:2880:U:H1'	40:L3:250:ALA:HB3	1.83	0.60
36:1:3365:U:H2'	36:1:3366:G:C8	2.36	0.60
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	1.83	0.60
1:6:647:G:N2	1:6:687:G:H22	1.99	0.60
1:6:1270:G:H21	33:e1:79:LYS:HD2	1.65	0.60
40:l3:41:VAL:HA	40:l3:185:GLY:CA	2.26	0.60
42:l5:270:LYS:HG3	42:l5:273:ARG:N	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:m3:141:ALA:HA	49:m3:144:THR:HB	1.83	0.60
4:S2:103:VAL:HG12	4:S2:190:LEU:HD12	1.83	0.60
36:1:109:A:H4'	36:1:110:G:OP1	2.00	0.60
36:1:149:U:P	51:M5:49:ARG:HH22	2.24	0.60
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.35	0.60
1:6:219:A:C6	1:6:843:U:H1'	2.36	0.60
1:6:1161:C:OP1	86:6:2027:OHX:N6	2.34	0.60
1:6:1565:C:OP1	20:c8:41:ARG:HD3	2.02	0.60
2:s0:71:GLU:O	2:s0:96:THR:HG22	2.01	0.60
36:5:279:U:H2'	36:5:280:U:H6	1.66	0.60
36:5:2971:A:H3'	36:5:2971:A:N3	2.17	0.60
44:l7:80:GLN:NE2	57:n1:135:PRO:O	2.27	0.60
54:m8:177:GLY:O	54:m8:186:VAL:N	2.25	0.60
66:o0:24:THR:HG22	66:o0:91:SER:HB3	1.82	0.60
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.83	0.60
24:D2:27:ILE:HD11	24:D2:61:ILE:HD12	1.83	0.60
25:D3:7:ARG:HB2	25:D3:7:ARG:HH11	1.66	0.60
25:D3:107:PHE:CD2	25:D3:114:LYS:HB2	2.36	0.60
25:D3:133:LEU:HD22	25:D3:137:LYS:HE2	1.83	0.60
32:E0:41:THR:HA	32:E0:45:VAL:HB	1.84	0.60
35:SM:23:LYS:H	35:SM:23:LYS:HD2	1.67	0.60
36:1:1765:U:H5"	55:M9:43:LYS:HE2	1.84	0.60
1:6:484:C:H42	1:6:503:G:H22	1.48	0.60
1:6:770:A:OP2	86:6:1991:OHX:N3	2.34	0.60
86:6:1989:OHX:N3	10:s8:52:ASN:OD1	2.35	0.60
15:c3:25:TRP:HA	15:c3:27:LYS:HE2	1.83	0.60
36:5:1750:A:H4'	36:5:1751:G:H5'	1.84	0.60
37:7:44:C:OP2	48:m1:137:ARG:NH2	2.34	0.60
38:8:126:A:OP1	86:8:211:OHX:N1	2.33	0.60
1:2:1595:U:N3	1:2:1600:A:H2	1.98	0.60
4:S2:148:LEU:HD13	4:S2:149:GLY:H	1.67	0.60
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.34	0.60
13:C1:6:THR:O	13:C1:8:GLN:N	2.29	0.60
36:1:1854:C:OP2	86:1:3570:OHX:N5	2.35	0.60
51:M5:35:VAL:HG13	51:M5:65:ARG:HB2	1.82	0.60
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.34	0.60
53:M7:24:VAL:HG12	53:M7:86:LYS:HG2	1.82	0.60
1:6:967:A:OP2	15:c3:124:ARG:NH2	2.35	0.60
1:6:1700:C:O2'	1:6:1701:A:OP1	2.20	0.60
1:6:1795:U:O2	28:d6:10:ARG:NE	2.35	0.60
7:s5:75:GLY:O	18:c6:122:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:18:ALA:HB2	18:c6:69:VAL:HG13	1.83	0.60
20:c8:91:ASP:HB3	20:c8:95:GLY:H	1.66	0.60
27:d5:104:ALA:O	27:d5:105:THR:OG1	2.15	0.60
36:5:1724:U:H1'	36:5:1725:C:C6	2.37	0.60
36:5:2568:C:O2'	36:5:2569:A:O5'	2.16	0.60
36:5:3334:U:H4'	36:5:3335:A:H5"	1.84	0.60
36:5:3352:U:O2'	86:5:3714:OHX:N5	2.35	0.60
39:l2:116:VAL:HG11	39:l2:134:VAL:HG11	1.84	0.60
41:l4:144:LYS:HG2	41:l4:145:ILE:H	1.66	0.60
62:n6:47:ALA:O	62:n6:122:LYS:NZ	2.35	0.60
66:o0:16:LEU:HB3	66:o0:98:SER:HB2	1.83	0.60
1:2:1533:C:H5	27:D5:77:ARG:NH2	2.00	0.60
17:C5:60:LEU:HD21	17:C5:92:SER:HB3	1.84	0.60
36:1:1412:G:OP1	68:O2:105:ARG:NH2	2.34	0.60
45:L8:133:LYS:HD2	45:L8:138:HIS:HE1	1.66	0.60
47:M0:24:ARG:HH11	47:M0:24:ARG:HG3	1.66	0.60
47:M0:55:ASN:ND2	47:M0:162:GLN:OE1	2.23	0.60
2:s0:55:GLU:OE2	23:d1:80:LYS:N	2.27	0.60
11:s9:58:ASP:O	11:s9:61:THR:OG1	2.20	0.60
36:5:25:U:O4	86:5:3409:OHX:N6	2.35	0.60
52:m6:78:ARG:HH11	52:m6:78:ARG:HG3	1.66	0.60
1:2:792:U:H3'	1:2:793:A:H8	1.65	0.60
1:2:1683:C:O2'	1:2:1684:U:O5'	2.20	0.60
11:S9:120:LYS:O	11:S9:121:SER:HB3	2.00	0.60
27:D5:46:LYS:HD3	27:D5:70:LYS:HD2	1.84	0.60
36:1:1679:A:OP1	58:N2:94:ARG:NH1	2.31	0.60
1:6:886:U:O2'	16:c4:121:VAL:O	2.20	0.60
3:s1:87:ARG:NH2	3:s1:89:ASP:OD1	2.35	0.60
26:d4:37:LYS:HD2	26:d4:57:VAL:HG23	1.82	0.60
31:d9:33:LYS:HE2	31:d9:34:TYR:CZ	2.37	0.60
36:5:1304:A:OP1	86:5:3638:OHX:N4	2.35	0.60
47:m0:218:ALA:O	86:m0:301:OHX:N3	2.35	0.60
13:C1:146:ALA:HB1	13:C1:149:ALA:HB2	1.84	0.59
14:C2:63:VAL:HG22	14:C2:64:SER:H	1.66	0.59
18:C6:49:TYR:HB3	18:C6:53:LEU:HD11	1.82	0.59
20:C8:30:TYR:HE2	20:C8:40:ARG:HH11	1.50	0.59
36:1:1506:A:H1'	36:1:1848:G:O6	2.02	0.59
61:N5:38:LEU:HD11	61:N5:40:LEU:HD13	1.84	0.59
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.83	0.59
1:6:1492:A:O2'	1:6:1493:A:H8	1.85	0.59
2:s0:63:ILE:HG12	23:d1:36:VAL:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:c5:51:SER:C	17:c5:53:PRO:HD2	2.27	0.59
22:d0:22:ILE:HG22	22:d0:93:LEU:HB2	1.82	0.59
25:d3:102:VAL:HG12	25:d3:127:VAL:HG13	1.84	0.59
36:5:497:C:O3'	69:o3:86:ARG:NH2	2.35	0.59
36:5:899:U:O4	86:5:3464:OHX:N5	2.35	0.59
36:5:1238:C:O2'	36:5:1239:C:OP1	2.15	0.59
36:5:2572:C:O2'	36:5:2573:G:OP2	2.18	0.59
1:2:1600:A:H4'	1:2:1601:G:OP1	2.02	0.59
36:1:3122:A:N1	46:L9:70:THR:HG21	2.16	0.59
1:6:1370:U:H4'	1:6:1371:A:H4'	1.84	0.59
1:6:1619:C:C2	30:d8:22:ARG:HD2	2.37	0.59
1:6:1783:C:H2'	1:6:1784:C:H6	1.67	0.59
20:c8:30:TYR:O	20:c8:33:THR:OG1	2.19	0.59
27:d5:71:ILE:HG23	27:d5:73:GLY:H	1.65	0.59
86:5:3504:OHX:N4	44:l7:217:PRO:O	2.34	0.59
38:8:132:G:N7	86:8:210:OHX:N2	2.50	0.59
46:l9:171:ASP:OD2	46:l9:173:ARG:NH1	2.35	0.59
48:m1:150:ASN:HA	48:m1:153:LYS:HD2	1.84	0.59
54:m8:158:HIS:H	54:m8:186:VAL:HG12	1.66	0.59
56:n0:77:VAL:HG11	56:n0:106:LEU:HG	1.83	0.59
66:o0:8:GLU:HB3	66:o0:13:LYS:HE2	1.83	0.59
10:S8:147:ALA:HA	10:S8:150:ALA:H	1.67	0.59
14:C2:61:VAL:HA	14:C2:89:ILE:HG22	1.84	0.59
36:1:595:G:N1	36:1:609:G:H5"	2.17	0.59
43:L6:40:LEU:HB3	43:L6:84:VAL:HG22	1.84	0.59
1:6:85:A:OP1	86:6:2032:OHX:N4	2.36	0.59
1:6:194:U:O2	1:6:195:G:O2'	2.16	0.59
86:5:3503:OHX:N2	77:q1:23:ARG:O	2.34	0.59
86:8:204:OHX:N2	73:o7:88:ALA:O	2.36	0.59
40:l3:4:ARG:HG3	40:l3:4:ARG:HH11	1.67	0.59
40:l3:56:ILE:HD11	40:l3:359:ILE:HG12	1.85	0.59
63:n7:129:TRP:O	63:n7:131:PHE:N	2.36	0.59
66:o0:34:LEU:HD23	66:o0:59:TYR:HB3	1.84	0.59
1:2:1358:G:OP1	86:2:2006:OHX:N2	2.35	0.59
3:S1:176:VAL:HG12	3:S1:177:GLN:H	1.66	0.59
5:S3:7:LYS:NZ	22:D0:115:GLU:OE2	2.30	0.59
36:1:619:A:H4'	36:1:620:U:O4'	2.03	0.59
39:L2:5:ILE:HG12	39:L2:8:GLN:HG3	1.83	0.59
44:L7:178:ILE:HA	44:L7:183:ASP:HB3	1.83	0.59
46:L9:90:MET:HE2	46:L9:179:ILE:HG22	1.85	0.59
69:O3:59:VAL:HG23	69:O3:60:ARG:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:120:THR:O	86:s8:301:OHX:N4	2.35	0.59
34:sR:52:GLN:HG2	34:sR:53:LYS:HG3	1.83	0.59
36:5:361:A:OP1	73:o7:24:ARG:NH1	2.36	0.59
59:n3:38:ALA:HB3	59:n3:59:MET:HB2	1.84	0.59
5:S3:105:MET:HG2	5:S3:122:VAL:HG21	1.83	0.59
18:C6:115:THR:HA	18:C6:118:ILE:HG23	1.84	0.59
36:1:831:G:O6	86:1:3425:OHX:N4	2.35	0.59
1:6:208:U:H4'	10:s8:176:SER:HB3	1.84	0.59
36:5:2402:A:OP2	86:5:3610:OHX:N3	2.34	0.59
36:5:2666:C:H2'	36:5:2667:A:H5"	1.84	0.59
44:l7:121:LYS:HB2	57:n1:133:ALA:HB3	1.84	0.59
54:m8:69:ARG:HH11	54:m8:69:ARG:HG3	1.67	0.59
72:o6:66:GLU:OE1	72:o6:70:ARG:NH2	2.35	0.59
1:2:755:A:H2'	1:2:756:A:C8	2.37	0.59
7:S5:133:VAL:HG22	7:S5:198:LEU:HD13	1.85	0.59
36:1:1278:A:O2'	36:1:1279:C:O5'	2.19	0.59
36:1:1951:C:N4	36:1:2095:G:H1	1.96	0.59
36:1:2213:A:H2'	36:1:2214:A:C8	2.37	0.59
57:N1:104:GLU:OE1	57:N1:130:ARG:NH1	2.36	0.59
68:O2:91:THR:HG22	68:O2:92:TYR:HD2	1.68	0.59
1:6:470:A:OP2	86:6:1958:OHX:N1	2.36	0.59
1:6:542:A:O2'	1:6:543:C:O5'	2.20	0.59
1:6:760:A:OP2	86:6:1939:OHX:N5	2.36	0.59
20:c8:86:LEU:HG	20:c8:99:HIS:HB2	1.83	0.59
21:c9:15:ILE:HD13	21:c9:60:SER:HA	1.83	0.59
80:sM:59:GLY:O	80:sM:63:ASP:N	2.27	0.59
36:5:629:U:H2'	36:5:630:A:C8	2.38	0.59
36:5:873:C:H5"	36:5:874:U:O5'	2.02	0.59
36:5:1409:G:O6	86:5:3659:OHX:N6	2.36	0.59
49:m3:162:ASN:ND2	49:m3:164:GLU:HB2	2.17	0.59
51:m5:8:GLU:HG3	51:m5:50:ARG:HH12	1.68	0.59
74:o8:14:LEU:HD23	74:o8:17:ARG:HD3	1.84	0.59
1:2:1330:G:N1	5:S3:204:ASP:OD1	2.36	0.59
8:S6:146:GLY:O	60:N4:98:PRO:HD2	2.02	0.59
11:S9:114:TYR:HA	11:S9:119:ALA:HB3	1.83	0.59
36:1:345:G:OP1	36:1:1429:G:N1	2.33	0.59
36:1:576:C:OP1	44:L7:241:LYS:NZ	2.32	0.59
36:1:2767:U:O2'	78:Q2:30:ALA:O	2.19	0.59
36:1:3341:U:O2'	36:1:3342:A:H5'	2.01	0.59
41:L4:292:SER:OG	41:L4:293:SER:N	2.35	0.59
1:6:58:U:O4	86:6:1945:OHX:N2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:120:LEU:HD21	2:s0:144:ILE:HD11	1.85	0.59
12:c0:10:LYS:NZ	12:c0:36:ASP:O	2.26	0.59
36:5:640:U:OP1	64:n8:21:ARG:NH2	2.34	0.59
36:5:789:A:H2'	36:5:790:U:C6	2.37	0.59
46:l9:18:VAL:HB	46:l9:27:VAL:HG22	1.85	0.59
47:m0:192:ASP:HA	47:m0:197:VAL:HG12	1.83	0.59
64:n8:45:MET:HE2	64:n8:45:MET:HA	1.85	0.59
4:S2:188:LEU:HD13	4:S2:196:VAL:HG11	1.84	0.59
5:S3:211:PRO:HG2	19:C7:19:ARG:HB2	1.83	0.59
36:1:872:U:H2'	36:1:873:C:C6	2.38	0.59
74:O8:32:ASN:O	74:O8:32:ASN:ND2	2.35	0.59
1:6:1534:G:OP2	27:d5:74:SER:OG	2.11	0.59
1:6:1544:U:OP1	20:c8:136:GLN:NE2	2.33	0.59
10:s8:171:SER:HB3	10:s8:180:ASP:HB2	1.84	0.59
14:c2:85:LYS:HE2	14:c2:87:PRO:HD3	1.83	0.59
36:5:213:A:N6	36:5:227:G:O2'	2.33	0.59
86:5:3504:OHX:N6	44:l7:217:PRO:HA	2.17	0.59
40:l3:117:ARG:HA	40:l3:175:LYS:HD2	1.83	0.59
81:l8:224:ASP:N	81:l8:224:ASP:OD1	2.33	0.59
1:2:205:U:O4	86:2:1945:OHX:N3	2.35	0.59
1:2:1101:G:H5"	24:D2:76:SER:HB3	1.84	0.59
3:S1:129:THR:HA	3:S1:177:GLN:HA	1.85	0.59
14:C2:119:SER:OG	14:C2:120:VAL:N	2.16	0.59
21:C9:37:VAL:HG11	21:C9:100:ILE:HD11	1.84	0.59
36:1:1062:A:N3	57:N1:130:ARG:NH2	2.50	0.59
36:1:1488:G:H5"	36:1:1838:G:O6	2.02	0.59
46:L9:174:LYS:HB2	76:Q0:127:LEU:HD11	1.84	0.59
14:c2:60:VAL:HG22	14:c2:122:VAL:HG22	1.84	0.59
21:c9:86:ARG:HB2	21:c9:89:ARG:HB2	1.83	0.59
36:5:920:A:OP1	36:5:922:U:H5	1.86	0.59
39:l2:10:LYS:HA	39:l2:16:PHE:CD2	2.38	0.59
1:2:515:A:OP2	86:2:1948:OHX:N3	2.35	0.59
16:C4:85:ALA:N	16:C4:119:THR:HG22	2.13	0.59
24:D2:27:ILE:HG12	24:D2:61:ILE:HB	1.85	0.59
36:1:230:U:H2'	36:1:231:G:O4'	2.03	0.59
44:L7:110:ARG:CZ	54:M8:3:ILE:HD12	2.33	0.59
47:M0:171:TRP:O	47:M0:174:THR:HG22	2.03	0.59
55:M9:21:LYS:HE3	55:M9:55:VAL:HA	1.85	0.59
1:6:628:G:N1	1:6:970:A:OP2	2.27	0.59
1:6:822:U:H2'	1:6:823:G:H5"	1.84	0.59
1:6:1595:U:N3	1:6:1600:A:H2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:160:VAL:HG13	6:s4:169:ILE:HG23	1.83	0.59
34:sR:22:SER:OG	34:sR:70:ASP:HA	2.03	0.59
36:5:3055:U:O2'	36:5:3057:U:OP1	2.17	0.59
36:5:3178:A:C2	52:m6:115:LYS:HD3	2.38	0.59
40:l3:256:HIS:HA	40:l3:257:PRO:C	2.28	0.59
81:l8:151:VAL:HG13	81:l8:199:ALA:HB2	1.84	0.59
47:m0:208:ASN:HB3	47:m0:211:ARG:HH11	1.68	0.59
51:m5:160:GLU:OE1	51:m5:160:GLU:N	2.32	0.59
61:n5:105:VAL:HG11	61:n5:126:LEU:HD13	1.85	0.59
1:2:346:G:O6	86:2:1997:OHX:N1	2.36	0.58
1:2:494:U:O2'	1:2:495:C:O5'	2.21	0.58
1:2:520:A:H2'	1:2:521:A:C8	2.38	0.58
1:2:992:A:H2	1:2:1012:U:H3	1.50	0.58
7:S5:40:ILE:HG23	7:S5:42:LEU:HD22	1.83	0.58
20:C8:26:ILE:HD11	20:C8:31:ALA:N	2.17	0.58
36:1:2705:A:OP2	86:1:3405:OHX:N2	2.36	0.58
86:1:3426:OHX:N3	57:N1:18:ASP:OD2	2.36	0.58
51:M5:68:ARG:HA	51:M5:98:LEU:HD21	1.85	0.58
1:6:788:A:OP2	6:s4:108:ARG:NH1	2.33	0.58
1:6:924:A:H2'	1:6:925:G:C8	2.38	0.58
1:6:1508:U:O4	86:6:1909:OHX:N4	2.36	0.58
34:sR:248:ASN:HD21	34:sR:298:GLY:HA3	1.67	0.58
36:5:1606:U:O4	70:o4:9:ARG:NH2	2.25	0.58
36:5:2875:U:H3	36:5:2952:G:H1	1.51	0.58
37:7:1:G:N2	42:l5:269:SER:OG	2.36	0.58
38:8:95:G:H1'	73:o7:81:GLY:O	2.03	0.58
42:l5:105:ILE:O	42:l5:109:THR:HG23	2.03	0.58
66:o0:30:THR:HG22	66:o0:91:SER:HB2	1.85	0.58
1:2:990:C:OP2	86:2:1965:OHX:N4	2.36	0.58
1:2:1474:G:H2'	1:2:1475:A:C8	2.38	0.58
5:S3:142:LEU:HD11	5:S3:182:LEU:HD21	1.85	0.58
36:1:279:U:H2'	36:1:280:U:H6	1.67	0.58
36:1:2663:G:O6	86:1:3405:OHX:N6	2.36	0.58
45:L8:101:THR:HG23	45:L8:104:GLU:H	1.68	0.58
46:L9:189:GLU:C	46:L9:191:LEU:H	2.09	0.58
47:M0:85:PHE:HA	47:M0:140:THR:HG22	1.86	0.58
1:6:356:G:OP2	86:6:1922:OHX:N3	2.36	0.58
1:6:1559:A:N1	20:c8:134:ARG:NH1	2.51	0.58
11:s9:3:ARG:HG2	11:s9:3:ARG:HH21	1.68	0.58
36:5:1233:G:H5'	84:p0:36:GLN:OE1	2.03	0.58
36:5:1616:U:H5"	70:o4:60:ARG:HH21	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2569:A:H4'	36:5:2570:U:H5'	1.85	0.58
44:l7:229:PHE:C	44:l7:229:PHE:CD1	2.81	0.58
57:n1:14:MET:HE1	57:n1:55:LYS:HB2	1.85	0.58
72:o6:74:LYS:HD2	72:o6:80:PHE:HD2	1.66	0.58
1:2:1385:G:N7	86:2:2002:OHX:N3	2.51	0.58
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.85	0.58
7:S5:57:SER:C	7:S5:59:VAL:H	2.11	0.58
7:S5:101:GLY:HA2	7:S5:104:ASN:ND2	2.18	0.58
34:SR:260:ILE:HB	34:SR:274:LEU:HB2	1.86	0.58
36:1:2206:G:H1	36:1:2237:C:H42	1.51	0.58
1:6:532:U:H2'	1:6:533:U:O4'	2.03	0.58
1:6:877:G:H5'	1:6:937:C:H1'	1.86	0.58
1:6:1459:C:OP2	20:c8:138:THR:OG1	2.21	0.58
3:s1:35:PRO:HB3	3:s1:231:LEU:HD21	1.84	0.58
14:c2:89:ILE:HG23	14:c2:90:LYS:O	2.02	0.58
20:c8:35:ILE:HB	20:c8:38:VAL:HG22	1.84	0.58
36:5:806:A:H5"	36:5:936:A:H61	1.69	0.58
36:5:1329:U:H4'	36:5:1330:A:OP1	2.03	0.58
36:5:2518:C:H2'	36:5:2519:A:C8	2.37	0.58
36:5:2556:C:O2'	63:n7:135:ARG:NH2	2.36	0.58
36:5:2828:G:HO2'	47:m0:4:ARG:HH11	1.50	0.58
40:l3:19:ARG:HB3	40:l3:232:ARG:NH1	2.18	0.58
47:m0:38:LYS:HG2	47:m0:41:ALA:HB2	1.84	0.58
70:o4:8:ARG:HH21	70:o4:31:ARG:HD2	1.66	0.58
1:2:782:U:H4'	1:2:783:G:OP2	2.02	0.58
2:S0:41:ARG:HD2	2:S0:42:PRO:O	2.02	0.58
9:S7:44:LYS:HD2	9:S7:63:PRO:HA	1.85	0.58
10:S8:48:THR:HG21	10:S8:54:LYS:HE3	1.85	0.58
24:D2:57:ARG:NH2	29:D7:26:GLN:OE1	2.36	0.58
26:D4:27:VAL:HG11	26:D4:35:VAL:HG21	1.85	0.58
36:1:1942:U:O2'	36:1:3345:G:O2'	2.08	0.58
37:3:60:G:H2'	37:3:61:G:H8	1.66	0.58
38:4:136:G:OP1	61:N5:48:SER:OG	2.18	0.58
48:M1:17:LEU:HD21	48:M1:19:LEU:HD21	1.86	0.58
1:6:1767:G:OP1	1:6:1770:U:H4'	2.03	0.58
2:s0:163:ASN:C	2:s0:165:ARG:H	2.11	0.58
4:s2:139:ILE:HD12	4:s2:191:ALA:HB1	1.86	0.58
11:s9:110:GLN:NE2	11:s9:126:ARG:HG2	2.18	0.58
15:c3:26:PHE:CE2	15:c3:28:LEU:HB2	2.38	0.58
36:5:731:U:H2'	36:5:732:C:H6	1.68	0.58
36:5:776:U:H5	36:5:2719:U:O2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1564:U:H2'	36:5:1565:G:C8	2.38	0.58
36:5:2249:G:OP1	86:5:3691:OHX:N6	2.36	0.58
36:5:2988:C:P	52:m6:68:ARG:HH12	2.26	0.58
48:m1:37:LEU:HD12	48:m1:67:VAL:HG13	1.85	0.58
58:n2:18:ASP:OD2	58:n2:20:SER:OG	2.19	0.58
7:S5:37:GLN:HB3	18:C6:53:LEU:HB3	1.85	0.58
29:D7:37:CYS:O	29:D7:39:GLY:N	2.35	0.58
36:1:600:G:O6	86:1:3628:OHX:N5	2.36	0.58
42:L5:148:ILE:HD11	42:L5:160:PHE:CE1	2.38	0.58
62:N6:5:SER:HB3	62:N6:8:VAL:HG23	1.84	0.58
4:s2:133:LYS:O	4:s2:136:VAL:HG13	2.04	0.58
33:e1:102:VAL:HG13	33:e1:103:LEU:HB2	1.84	0.58
36:5:878:G:OP2	86:5:3713:OHX:N6	2.36	0.58
36:5:1817:G:OP1	86:5:3675:OHX:N1	2.37	0.58
36:5:2299:A:OP2	86:5:3461:OHX:N1	2.37	0.58
36:5:3103:A:OP2	86:5:3656:OHX:N4	2.36	0.58
36:5:3295:A:H2'	36:5:3296:A:C8	2.38	0.58
49:m3:50:PRO:O	49:m3:52:ASP:N	2.36	0.58
51:m5:140:LYS:NZ	71:o5:96:GLU:OE2	2.34	0.58
56:n0:91:TYR:O	56:n0:137:ARG:NH1	2.37	0.58
59:n3:32:ARG:HB3	59:n3:64:LYS:HB3	1.85	0.58
1:2:273:G:H1	1:2:283:U:H3	1.50	0.58
1:2:800:U:H2'	1:2:801:G:H8	1.68	0.58
10:S8:89:GLU:OE1	10:S8:92:ARG:NH2	2.37	0.58
18:C6:50:GLU:OE1	18:C6:114:ARG:NH1	2.37	0.58
22:D0:69:LYS:HE2	22:D0:80:GLU:HB2	1.85	0.58
25:D3:90:ASP:O	25:D3:136:TRP:NE1	2.30	0.58
36:1:3074:G:OP1	86:1:3576:OHX:N1	2.37	0.58
53:M7:19:GLY:HA3	53:M7:22:LEU:HD11	1.84	0.58
11:s9:109:LEU:HD13	11:s9:129:ILE:HD13	1.86	0.58
36:5:916:G:H5'	36:5:917:A:OP1	2.04	0.58
46:l9:86:TYR:CE2	46:l9:151:VAL:HG22	2.39	0.58
49:m3:48:PRO:HB2	71:o5:117:ALA:HB2	1.86	0.58
71:o5:21:LEU:HD22	71:o5:25:LYS:HE3	1.85	0.58
79:q3:49:ARG:HB2	79:q3:55:TRP:CZ3	2.38	0.58
1:2:143:G:N7	8:S6:177:ARG:NH2	2.52	0.58
1:2:584:C:H1'	32:E0:18:THR:HG21	1.86	0.58
1:2:1347:U:O2	1:2:1516:A:H5'	2.04	0.58
4:S2:59:HIS:CD2	4:S2:238:SER:HA	2.39	0.58
36:1:1393:A:N3	36:1:1419:A:O2'	2.35	0.58
36:1:2513:U:OP2	86:1:3446:OHX:N3	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.50	0.58
47:M0:47:PRO:HD2	47:M0:141:LYS:HA	1.86	0.58
57:N1:78:LYS:HB3	57:N1:87:LYS:HG3	1.84	0.58
1:6:1297:G:N2	1:6:1300:A:OP2	2.35	0.58
7:s5:90:ILE:O	7:s5:94:THR:HG23	2.04	0.58
18:c6:42:GLU:O	18:c6:45:ARG:N	2.29	0.58
36:5:996:A:H2'	36:5:997:A:O4'	2.03	0.58
36:5:2209:U:O4	86:5:3463:OHX:N4	2.37	0.58
40:l3:291:GLU:OE1	40:l3:302:LYS:NZ	2.31	0.58
43:l6:56:LYS:HD2	43:l6:98:VAL:HG13	1.85	0.58
44:l7:178:ILE:HA	44:l7:183:ASP:CB	2.33	0.58
47:m0:54:SER:HB2	47:m0:135:ILE:HD11	1.86	0.58
1:2:1738:U:O4	86:2:1919:OHX:N4	2.37	0.58
1:2:1780:G:OP2	86:2:1930:OHX:N4	2.36	0.58
3:S1:70:LEU:HD21	3:S1:79:HIS:CD2	2.39	0.58
7:S5:158:GLN:HE21	30:D8:66:LEU:HD21	1.69	0.58
20:C8:54:LEU:H	20:C8:54:LEU:HD22	1.69	0.58
38:4:80:A:OP1	71:O5:43:LYS:NZ	2.34	0.58
46:L9:41:ILE:O	46:L9:41:ILE:HD13	2.03	0.58
54:M8:80:THR:HG22	54:M8:100:THR:HB	1.83	0.58
1:6:393:C:OP2	10:s8:2:GLY:N	2.37	0.58
1:6:1696:G:H2'	1:6:1698:G:O6	2.02	0.58
3:s1:70:LEU:HB3	3:s1:79:HIS:HB3	1.85	0.58
11:s9:49:LEU:HD11	11:s9:100:LYS:HA	1.86	0.58
11:s9:141:VAL:HG21	11:s9:146:PHE:CD2	2.39	0.58
36:5:365:A:H1'	41:l4:82:THR:OG1	2.04	0.58
36:5:3053:G:O6	86:5:3669:OHX:N6	2.37	0.58
47:m0:66:GLU:OE1	47:m0:69:ARG:NH2	2.37	0.58
1:2:197:A:H61	10:S8:138:ASN:ND2	2.02	0.58
1:2:1533:C:H4'	1:2:1539:G:N1	2.18	0.58
26:D4:92:VAL:HG21	26:D4:99:LYS:HG2	1.86	0.58
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.37	0.58
38:4:63:G:O3'	71:O5:49:LYS:NZ	2.36	0.58
38:4:113:U:H5"	75:O9:7:PHE:HB3	1.85	0.58
40:L3:215:ILE:HD13	40:L3:282:ILE:HD11	1.85	0.58
41:L4:170:LYS:HG3	41:L4:175:HIS:HB2	1.84	0.58
41:L4:269:SER:C	41:L4:271:LYS:H	2.12	0.58
48:M1:59:ILE:HG21	48:M1:65:ILE:HD11	1.85	0.58
49:M3:75:PHE:O	49:M3:79:GLU:HB2	2.03	0.58
56:N0:1:MET:SD	56:N0:36:ILE:HD13	2.44	0.58
69:O3:85:PHE:O	86:O3:201:OHX:N1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:332:U:P	10:s8:56:ARG:HH22	2.27	0.58
1:6:1479:A:OP1	21:c9:57:ARG:NH1	2.36	0.58
1:6:1533:C:OP2	27:d5:77:ARG:NH1	2.22	0.58
36:5:541:U:H2'	36:5:542:G:C8	2.39	0.58
59:n3:13:ILE:HD13	59:n3:53:SER:HB2	1.86	0.58
72:o6:62:ARG:O	72:o6:63:ASN:ND2	2.36	0.58
1:2:159:U:O2'	8:S6:87:ARG:NH1	2.37	0.58
1:2:488:G:H4'	1:2:488:G:OP1	2.04	0.58
1:2:749:U:H2'	1:2:750:U:C6	2.39	0.58
1:2:1115:U:O3'	77:Q1:17:ARG:NH2	2.37	0.58
1:2:1504:G:H2'	1:2:1505:A:C8	2.39	0.58
4:S2:157:LYS:HG2	4:S2:170:ILE:HG13	1.86	0.58
13:C1:3:THR:OG1	13:C1:82:ARG:NE	2.32	0.58
36:1:1582:C:O2'	36:1:1583:A:O5'	2.22	0.58
36:1:2242:A:H5'	39:L2:243:THR:HG23	1.84	0.58
42:L5:40:HIS:CD2	57:N1:69:LYS:HA	2.39	0.58
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	1.86	0.58
45:L8:84:ARG:H	45:L8:84:ARG:NE	2.02	0.58
62:N6:112:ASP:HB2	62:N6:115:ARG:H	1.69	0.58
1:6:654:C:H2'	1:6:655:G:H8	1.69	0.58
3:s1:132:ASP:HB2	3:s1:221:PRO:HB3	1.85	0.58
3:s1:149:GLN:HE21	3:s1:151:LYS:HG2	1.69	0.58
4:s2:106:ASP:OD1	4:s2:108:ASN:N	2.28	0.58
6:s4:49:ARG:HG3	6:s4:50:ASN:N	2.18	0.58
36:5:132:C:H2'	36:5:133:U:H5"	1.86	0.58
36:5:942:U:N3	64:n8:16:SER:HA	2.18	0.58
75:o9:10:LYS:HA	75:o9:13:MET:HE3	1.85	0.58
1:2:641:G:H1	1:2:693:U:H3	1.51	0.57
1:2:1229:G:O2'	1:2:1255:G:N2	2.37	0.57
1:2:1240:U:OP2	86:2:2012:OHX:N1	2.37	0.57
1:2:1460:A:OP2	35:SM:68:ARG:HD3	2.02	0.57
22:D0:18:GLN:O	22:D0:96:PRO:HA	2.03	0.57
36:1:2895:G:O2'	76:Q0:100:TYR:O	2.10	0.57
36:1:3329:U:H5"	40:L3:308:MET:HE2	1.85	0.57
41:L4:99:MET:SD	41:L4:102:PRO:HA	2.44	0.57
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.39	0.57
1:6:66:U:OP1	8:s6:136:LYS:NZ	2.29	0.57
1:6:1199:G:O6	22:d0:67:THR:HG22	2.04	0.57
6:s4:124:GLY:HA2	6:s4:142:HIS:CE1	2.38	0.57
17:c5:111:MET:HG2	20:c8:119:ILE:HG13	1.84	0.57
21:c9:139:THR:O	21:c9:142:GLU:HG3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:42:LEU:HD21	34:sR:82:SER:HB3	1.86	0.57
36:5:692:A:OP1	51:m5:201:ARG:NH2	2.37	0.57
36:5:2174:G:OP2	39:l2:193:ARG:NH1	2.37	0.57
39:l2:45:VAL:HG22	39:l2:84:THR:HA	1.86	0.57
57:n1:8:ARG:O	57:n1:11:THR:OG1	2.14	0.57
1:2:324:U:O2'	13:C1:80:MET:HE3	2.04	0.57
1:2:856:A:N6	9:S7:96:ARG:HB3	2.20	0.57
1:2:1147:A:H2'	1:2:1148:C:C6	2.39	0.57
1:2:1280:C:H2'	1:2:1281:G:H8	1.69	0.57
1:2:1498:G:H5"	21:C9:72:GLY:HA3	1.86	0.57
1:2:1615:C:O2'	1:2:1616:G:OP2	2.22	0.57
4:S2:125:ILE:O	4:S2:129:ILE:HG13	2.05	0.57
13:C1:67:ARG:HD3	13:C1:67:ARG:N	2.19	0.57
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.86	0.57
1:6:1160:A:H2'	1:6:1161:C:C6	2.38	0.57
2:s0:126:PRO:HB2	2:s0:152:PRO:HG2	1.85	0.57
13:c1:109:VAL:HG12	13:c1:137:PHE:HB2	1.87	0.57
19:c7:33:ARG:NH2	34:sR:109:ASP:OD2	2.37	0.57
21:c9:117:SER:HB2	21:c9:123:ARG:HB3	1.86	0.57
34:sR:14:GLU:HB3	34:sR:309:VAL:HG12	1.86	0.57
36:5:1378:U:OP1	86:5:3528:OHX:N3	2.36	0.57
36:5:2146:C:OP1	39:l2:200:ARG:NH1	2.35	0.57
36:5:2202:C:O2'	39:l2:240:ALA:O	2.20	0.57
49:m3:166:ALA:N	64:n8:135:GLU:OE1	2.29	0.57
1:2:16:G:H2'	1:2:17:C:C6	2.39	0.57
1:2:1570:A:OP1	86:2:2019:OHX:N5	2.37	0.57
11:S9:114:TYR:HE1	11:S9:121:SER:H	1.51	0.57
15:C3:116:ILE:O	15:C3:120:SER:OG	2.21	0.57
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.37	0.57
36:1:3113:A:OP2	86:1:3563:OHX:N5	2.37	0.57
41:L4:295:ILE:O	41:L4:299:ILE:HG12	2.05	0.57
46:L9:105:GLU:HG3	46:L9:109:ALA:HB3	1.86	0.57
49:M3:174:ARG:NH1	72:O6:9:ILE:HG21	2.19	0.57
55:M9:76:SER:O	55:M9:81:ARG:NH1	2.37	0.57
1:6:74:U:H3'	1:6:75:U:H3'	1.86	0.57
1:6:1126:G:OP1	77:q1:15:ARG:NH1	2.37	0.57
1:6:1173:C:H3'	20:c8:141:THR:HG21	1.85	0.57
1:6:1280:C:O2'	22:d0:70:THR:HG23	2.03	0.57
2:s0:168:HIS:HA	2:s0:203:PHE:HE2	1.69	0.57
8:s6:57:ASP:HA	8:s6:106:LEU:HA	1.86	0.57
18:c6:99:GLU:HG2	34:sR:57:PRO:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:801:A:OP1	64:n8:27:LYS:NZ	2.30	0.57
36:5:3170:A:OP2	69:o3:56:SER:OG	2.20	0.57
44:l7:151:ARG:NH1	44:l7:244:ASN:O	2.37	0.57
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.32	0.57
1:2:482:U:H2'	1:2:483:A:C8	2.40	0.57
1:2:1681:A:H2'	1:2:1682:U:H5'	1.86	0.57
4:S2:53:ILE:HG12	4:S2:72:LEU:HB3	1.85	0.57
9:S7:41:LEU:HB3	9:S7:70:PHE:CE1	2.39	0.57
36:1:2315:G:OP2	86:1:3539:OHX:N3	2.36	0.57
36:1:2617:U:H5	36:1:2621:G:OP2	1.88	0.57
40:L3:105:VAL:HG21	40:L3:148:LEU:HD13	1.87	0.57
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.69	0.57
1:6:235:G:H2'	1:6:236:A:C8	2.38	0.57
1:6:263:C:H4'	1:6:292:U:H5'	1.86	0.57
6:s4:126:VAL:HG13	6:s4:158:ASP:O	2.05	0.57
11:s9:118:LEU:HD23	11:s9:158:PHE:CE1	2.39	0.57
36:5:92:G:OP1	78:q2:46:LYS:HE2	2.04	0.57
36:5:170:G:OP1	49:m3:128:ARG:NH1	2.38	0.57
36:5:2356:A:OP1	53:m7:138:LYS:NZ	2.35	0.57
36:5:3287:U:H2'	36:5:3288:G:H5'	1.85	0.57
52:m6:85:ARG:HD3	52:m6:90:HIS:ND1	2.18	0.57
69:o3:59:VAL:HG23	69:o3:60:ARG:H	1.68	0.57
79:q3:36:ARG:HG3	79:q3:48:LYS:HD2	1.85	0.57
1:2:795:U:OP2	24:D2:82:LYS:NZ	2.37	0.57
1:2:856:A:H62	9:S7:97:ARG:H	1.53	0.57
36:1:531:G:H2'	36:1:532:A:C8	2.39	0.57
36:1:2687:G:OP1	42:L5:8:LYS:NZ	2.34	0.57
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	1.85	0.57
43:L6:175:LYS:O	50:M4:117:ARG:NH2	2.36	0.57
53:M7:19:GLY:H	53:M7:94:LEU:HD21	1.69	0.57
59:N3:48:ARG:HH11	59:N3:48:ARG:HG3	1.69	0.57
73:O7:31:LYS:O	73:O7:33:THR:HG22	2.04	0.57
1:6:1535:U:O2'	1:6:1536:G:O5'	2.23	0.57
14:c2:30:VAL:HB	14:c2:132:GLU:HG3	1.85	0.57
14:c2:35:ALA:O	14:c2:40:GLY:N	2.32	0.57
36:5:1176:C:H2'	36:5:1177:G:N2	2.19	0.57
36:5:2403:G:N7	36:5:2870:C:H4'	2.19	0.57
64:n8:64:GLN:OE1	64:n8:67:HIS:NE2	2.36	0.57
1:2:1796:C:H5	28:D6:6:ALA:H	1.53	0.57
6:S4:122:LYS:HG2	6:S4:162:ILE:HB	1.85	0.57
14:C2:54:ARG:HB2	35:SM:172:UNK:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:24:ILE:HG12	22:D0:116:VAL:HG22	1.87	0.57
29:D7:54:VAL:O	29:D7:63:LEU:HB2	2.05	0.57
34:SR:154:VAL:O	34:SR:155:ARG:NH1	2.36	0.57
36:1:72:C:H5'	49:M3:63:VAL:HG22	1.85	0.57
36:1:191:U:H2'	36:1:192:C:H6	1.69	0.57
36:1:2947:G:OP2	36:1:2947:G:H4'	2.03	0.57
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	1.85	0.57
47:M0:3:ARG:CZ	47:M0:63:GLU:HG3	2.34	0.57
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.87	0.57
50:M4:32:LEU:HD11	50:M4:94:TRP:CD1	2.39	0.57
70:O4:58:ARG:HG3	70:O4:59:PRO:HD2	1.85	0.57
1:6:323:A:OP2	10:s8:10:LYS:HG3	2.03	0.57
1:6:407:A:H5'	8:s6:94:ARG:HH21	1.70	0.57
4:s2:45:VAL:HG21	4:s2:68:ILE:HG23	1.86	0.57
5:s3:70:THR:HG23	5:s3:86:LEU:HB2	1.86	0.57
7:s5:99:MET:HA	7:s5:104:ASN:ND2	2.19	0.57
36:5:549:U:H2'	36:5:550:A:C8	2.40	0.57
36:5:2894:C:OP1	46:l9:168:ARG:HD2	2.04	0.57
41:l4:237:GLN:O	41:l4:246:ARG:HG3	2.04	0.57
70:o4:41:ARG:HG2	70:o4:56:THR:HG21	1.86	0.57
4:S2:139:ILE:HD11	4:S2:218:ILE:HB	1.85	0.57
4:S2:245:ASP:OD1	4:S2:245:ASP:N	2.37	0.57
13:C1:125:VAL:HG13	13:C1:137:PHE:HB3	1.86	0.57
18:C6:50:GLU:OE2	18:C6:82:ARG:NH2	2.30	0.57
36:1:32:U:O3'	51:M5:71:ARG:NH2	2.38	0.57
36:1:1257:C:H42	36:1:1261:G:H22	1.52	0.57
36:1:3174:A:OP1	69:O3:97:SER:OG	2.15	0.57
37:3:26:C:H2'	37:3:27:A:O4'	2.05	0.57
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	1.87	0.57
64:N8:71:PRO:HB2	64:N8:109:TYR:HA	1.86	0.57
1:6:1041:G:H2'	1:6:1042:G:C8	2.39	0.57
2:s0:112:THR:HG22	2:s0:115:PHE:HB2	1.87	0.57
8:s6:214:LYS:HA	8:s6:217:SER:HB2	1.85	0.57
14:c2:83:GLU:O	14:c2:85:LYS:N	2.38	0.57
25:d3:97:ASP:O	25:d3:100:ASP:HB2	2.05	0.57
27:d5:49:ARG:O	27:d5:53:GLU:HB2	2.05	0.57
36:5:385:A:H2'	36:5:386:A:C8	2.39	0.57
36:5:1829:G:N7	86:5:3548:OHX:N3	2.52	0.57
36:5:1863:G:N1	36:5:1866:C:OP2	2.35	0.57
36:5:2514:U:H6	36:5:2514:U:OP1	1.87	0.57
59:n3:108:GLU:HB3	59:n3:128:ARG:HH11	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:539:G:OP2	1:2:539:G:H8	1.87	0.57
1:2:896:U:H4'	16:C4:38:THR:HG21	1.87	0.57
1:2:1776:A:H2'	1:2:1777:G:C8	2.39	0.57
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	1.86	0.57
36:1:1063:G:N7	36:1:1097:G:H2'	2.19	0.57
36:1:1790:G:O6	86:1:3691:OHX:N4	2.38	0.57
36:1:2433:U:H1'	51:M5:125:SER:HB3	1.86	0.57
36:1:2775:U:H2'	36:1:2776:C:C6	2.40	0.57
36:1:3365:U:H2'	36:1:3366:G:H8	1.69	0.57
86:1:3409:OHX:N1	38:4:2:A:OP2	2.38	0.57
56:N0:2:ALA:HB3	56:N0:32:SER:CB	2.33	0.57
63:N7:23:VAL:HB	63:N7:43:VAL:HB	1.87	0.57
74:O8:18:ALA:O	74:O8:20:VAL:N	2.38	0.57
1:6:67:A:O2'	1:6:69:G:OP1	2.18	0.57
1:6:315:A:O2'	86:6:2010:OHX:N1	2.38	0.57
1:6:1099:U:OP1	24:d2:71:LYS:NZ	2.26	0.57
1:6:1301:U:H5'	4:s2:88:LYS:HG3	1.87	0.57
1:6:1491:U:H4'	1:6:1492:A:H5"	1.87	0.57
3:s1:180:THR:H	3:s1:183:GLN:HB2	1.70	0.57
4:s2:44:LEU:HD21	4:s2:247:ALA:HB2	1.87	0.57
22:d0:72:ASN:ND2	22:d0:73:GLY:H	2.02	0.57
36:5:156:G:OP2	72:o6:25:LYS:HB3	2.05	0.57
36:5:269:G:H5"	51:m5:14:LYS:HE2	1.85	0.57
36:5:1942:U:OP2	55:m9:74:ARG:NH1	2.38	0.57
36:5:3275:U:N3	69:o3:60:ARG:HD3	2.19	0.57
37:7:28:C:H5"	48:m1:137:ARG:HG2	1.87	0.57
49:m3:140:SER:OG	49:m3:143:ALA:N	2.27	0.57
57:n1:131:GLN:HG3	57:n1:132:PRO:HD2	1.87	0.57
1:2:767:U:C6	11:S9:141:VAL:HA	2.40	0.57
1:2:927:C:H1'	16:C4:125:SER:HB2	1.87	0.57
12:C0:46:LEU:O	12:C0:50:THR:HG23	2.04	0.57
40:L3:3:HIS:O	40:L3:5:LYS:N	2.37	0.57
6:s4:122:LYS:HD2	6:s4:164:LEU:HD21	1.86	0.57
7:s5:62:VAL:HG13	7:s5:89:ILE:HG12	1.87	0.57
26:d4:29:HIS:HB2	26:d4:32:ARG:HB2	1.87	0.57
36:5:566:G:O6	86:5:3631:OHX:N5	2.38	0.57
56:n0:2:ALA:HB3	56:n0:32:SER:HB3	1.86	0.57
67:o1:77:ARG:HD2	67:o1:89:LEU:HD23	1.85	0.57
74:o8:18:ALA:O	74:o8:20:VAL:N	2.37	0.57
3:S1:61:LEU:HD22	3:S1:61:LEU:H	1.70	0.57
36:1:1119:C:OP2	86:1:3492:OHX:N1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:922:G:H2'	1:6:923:A:C8	2.40	0.57
2:s0:30:GLN:NE2	2:s0:32:HIS:HB2	2.20	0.57
26:d4:60:PHE:HA	26:d4:70:VAL:O	2.04	0.57
42:l5:40:HIS:CE1	42:l5:42:ALA:HB3	2.40	0.57
48:m1:101:ASN:HB3	48:m1:130:VAL:HA	1.87	0.57
1:2:67:A:O3'	1:2:68:A:H3'	2.05	0.56
1:2:1064:G:O2'	3:S1:204:ILE:O	2.23	0.56
1:2:1235:C:O2	33:E1:138:ARG:NE	2.38	0.56
8:S6:114:VAL:HG12	8:S6:115:LYS:HD3	1.87	0.56
10:S8:36:THR:HB	10:S8:57:ALA:O	2.05	0.56
10:S8:105:ASP:OD1	10:S8:107:THR:OG1	2.16	0.56
20:C8:14:ILE:HG13	20:C8:14:ILE:O	2.05	0.56
30:D8:32:PHE:CE2	30:D8:38:ARG:HB3	2.39	0.56
36:1:562:C:H2'	36:1:563:U:H6	1.69	0.56
36:1:1094:U:H1'	36:1:1096:U:H2'	1.87	0.56
36:1:1445:U:H5"	36:1:1446:A:OP2	2.04	0.56
36:1:1498:A:H2'	36:1:1499:C:C6	2.39	0.56
36:1:1514:G:O2'	75:O9:45:ARG:NH2	2.38	0.56
1:6:513:U:OP1	11:s9:133:HIS:NE2	2.38	0.56
1:6:837:G:O6	86:6:1956:OHX:N1	2.38	0.56
23:d1:60:ARG:HA	23:d1:65:SER:HB2	1.86	0.56
36:5:347:G:N7	73:o7:55:ARG:NH2	2.52	0.56
36:5:943:U:H3'	64:n8:13:GLY:HA2	1.86	0.56
38:8:83:C:H4'	38:8:85:G:N3	2.20	0.56
69:o3:85:PHE:O	86:o3:201:OHX:N2	2.37	0.56
1:2:422:G:OP1	86:2:1920:OHX:N6	2.37	0.56
1:2:706:A:N1	1:2:734:A:N6	2.53	0.56
1:2:1057:U:H1'	1:2:1058:U:H2'	1.87	0.56
1:2:1564:U:H2'	1:2:1565:C:C6	2.39	0.56
9:S7:62:VAL:HB	9:S7:94:ALA:HA	1.86	0.56
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.05	0.56
22:D0:118:VAL:HG22	22:D0:119:ALA:H	1.70	0.56
35:SM:100:THR:HG23	35:SM:101:ASP:N	2.20	0.56
36:1:410:U:O4	86:1:3592:OHX:N5	2.38	0.56
36:1:1480:G:H4'	36:1:1481:A:OP1	2.05	0.56
39:L2:48:ILE:HG13	39:L2:48:ILE:O	2.04	0.56
39:L2:113:VAL:HG23	39:L2:166:ILE:HD13	1.85	0.56
41:L4:269:SER:O	41:L4:271:LYS:N	2.38	0.56
1:6:859:A:C5	15:c3:73:ARG:HD3	2.40	0.56
2:s0:50:VAL:HG23	19:c7:109:LEU:HD21	1.86	0.56
2:s0:175:TYR:HE1	2:s0:197:ILE:HG22	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c4:107:ARG:HH21	16:c4:107:ARG:HB2	1.70	0.56
17:c5:121:ILE:HD13	17:c5:123:TYR:H	1.69	0.56
29:d7:2:VAL:O	29:d7:3:LEU:HB2	2.03	0.56
36:5:824:C:H5"	39:l2:21:ARG:HD3	1.87	0.56
36:5:1596:C:H2'	36:5:1597:C:C6	2.40	0.56
39:l2:70:ARG:HH11	39:l2:72:ARG:HE	1.53	0.56
40:l3:153:LYS:HG2	40:l3:154:TYR:CZ	2.40	0.56
42:l5:41:LYS:HB2	57:n1:68:THR:O	2.04	0.56
70:o4:20:ILE:HD12	70:o4:32:ALA:HB1	1.87	0.56
1:2:484:C:N4	1:2:503:G:H22	2.02	0.56
1:2:1114:G:O2'	1:2:1130:G:O6	2.22	0.56
1:2:1175:U:H2'	1:2:1176:G:C8	2.40	0.56
1:2:1487:A:H2'	1:2:1488:G:C8	2.39	0.56
1:2:1770:U:O2'	86:2:1967:OHX:N2	2.38	0.56
16:C4:29:HIS:ND1	16:C4:29:HIS:O	2.38	0.56
27:D5:41:ILE:HG13	27:D5:42:LEU:H	1.69	0.56
36:1:3180:A:C6	52:M6:114:LYS:HD2	2.41	0.56
37:3:20:A:H2'	37:3:21:G:H8	1.70	0.56
37:3:113:C:H2'	37:3:114:U:O4'	2.06	0.56
50:M4:21:VAL:HG23	50:M4:65:LEU:HD23	1.87	0.56
57:N1:44:ALA:HB2	57:N1:53:PRO:HG2	1.86	0.56
1:6:346:G:H5'	13:c1:79:LYS:HB3	1.86	0.56
1:6:652:G:N2	1:6:682:C:O2	2.38	0.56
1:6:958:U:OP2	29:d7:20:LYS:NZ	2.34	0.56
11:s9:90:LYS:O	11:s9:95:TYR:HB2	2.05	0.56
13:c1:60:PHE:O	13:c1:62:GLY:N	2.39	0.56
20:c8:145:ARG:HB3	80:sM:68:ARG:HH12	1.70	0.56
33:e1:138:ARG:HD2	33:e1:149:LYS:HD2	1.87	0.56
36:5:30:G:O5'	51:m5:172:ARG:HD2	2.05	0.56
36:5:621:A:H2'	36:5:622:A:C8	2.39	0.56
36:5:1519:G:H2'	36:5:1520:G:C8	2.40	0.56
36:5:1783:U:H2'	36:5:1784:G:C8	2.40	0.56
36:5:2971:A:H5"	36:5:2972:G:O5'	2.05	0.56
44:l7:110:ARG:CZ	54:m8:3:ILE:HD12	2.36	0.56
49:m3:89:TYR:CE1	49:m3:93:ILE:HD11	2.41	0.56
52:m6:78:ARG:HG3	52:m6:78:ARG:NH1	2.18	0.56
79:q3:6:LYS:HG2	79:q3:7:LYS:HG3	1.86	0.56
4:S2:140:ARG:HH21	4:S2:226:THR:HG21	1.71	0.56
27:D5:59:TYR:HE2	27:D5:61:SER:HB3	1.71	0.56
36:1:1245:A:H3'	36:1:1246:G:H5"	1.87	0.56
36:1:2762:A:OP2	86:1:3472:OHX:N4	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3217:C:C4	53:M7:182:ILE:HG23	2.41	0.56
37:3:7:G:OP2	42:L5:28:THR:OG1	2.22	0.56
37:3:7:G:O3'	42:L5:33:ARG:NH2	2.38	0.56
38:4:24:G:OP1	62:N6:17:LYS:NZ	2.32	0.56
45:L8:36:ILE:O	45:L8:38:GLN:HG2	2.06	0.56
18:c6:106:LYS:HG2	18:c6:117:LEU:HD11	1.86	0.56
57:n1:119:ALA:O	57:n1:123:GLY:N	2.38	0.56
74:o8:24:THR:HB	74:o8:76:ASN:HB3	1.85	0.56
1:2:717:C:H42	1:2:720:G:H22	1.54	0.56
1:2:896:U:C4'	16:C4:38:THR:HG21	2.35	0.56
3:S1:36:SER:HB3	3:S1:231:LEU:HD22	1.86	0.56
5:S3:220:PRO:HB3	34:SR:221:MET:HE1	1.87	0.56
12:C0:59:PHE:CZ	12:C0:62:GLN:HA	2.41	0.56
22:D0:117:VAL:HG22	22:D0:118:VAL:H	1.69	0.56
36:1:829:U:H3	36:1:895:A:H62	1.53	0.56
38:4:155:A:OP1	45:L8:185:ARG:NH2	2.38	0.56
40:L3:53:MET:HE2	40:L3:77:THR:CG2	2.36	0.56
42:L5:270:LYS:HG3	42:L5:273:ARG:HH11	1.71	0.56
66:O0:29:SER:HA	66:O0:32:LYS:HE2	1.88	0.56
1:6:1171:A:H2'	1:6:1172:G:C8	2.40	0.56
1:6:1553:G:O2'	31:d9:14:TYR:OH	2.18	0.56
2:s0:6:THR:O	2:s0:191:ARG:NH1	2.38	0.56
4:s2:102:VAL:HG11	4:s2:129:ILE:HG12	1.88	0.56
9:s7:126:LEU:HB2	9:s7:173:TYR:HE2	1.69	0.56
11:s9:110:GLN:HE22	11:s9:126:ARG:HG2	1.70	0.56
19:c7:13:SER:HA	19:c7:54:THR:HG22	1.87	0.56
24:d2:36:LYS:O	24:d2:40:VAL:HG23	2.06	0.56
36:5:2248:C:OP2	86:5:3479:OHX:N6	2.38	0.56
36:5:2510:U:O2'	36:5:2511:A:H5"	2.05	0.56
36:5:2943:G:N7	40:l3:2:SER:N	2.54	0.56
51:m5:15:GLN:HB3	72:o6:52:PRO:HD2	1.87	0.56
51:m5:46:ASP:OD1	51:m5:50:ARG:NH2	2.38	0.56
1:2:987:G:C2	39:L2:249:SER:HB2	2.40	0.56
1:2:1317:C:H2'	1:2:1318:G:O4'	2.05	0.56
7:S5:42:LEU:HB2	7:S5:46:TRP:O	2.06	0.56
7:S5:73:THR:HG22	7:S5:75:GLY:H	1.69	0.56
13:C1:27:THR:HG23	13:C1:29:LYS:H	1.71	0.56
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.87	0.56
36:1:1211:U:H2'	36:1:1212:A:C8	2.40	0.56
36:1:3242:G:H21	36:1:3245:A:H5"	1.69	0.56
38:4:83:C:H1'	38:4:85:G:H21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:147:U:O2	61:N5:37:THR:OG1	2.22	0.56
41:L4:285:ASP:OD2	41:L4:288:ARG:HB2	2.04	0.56
48:M1:9:MET:O	48:M1:9:MET:HG3	2.04	0.56
1:6:9:U:O4	86:6:1999:OHX:N3	2.39	0.56
1:6:1180:C:O2'	17:c5:128:HIS:HA	2.05	0.56
13:c1:46:LYS:O	13:c1:50:GLU:HG2	2.06	0.56
25:d3:17:VAL:HG23	25:d3:20:ARG:NH2	2.20	0.56
26:d4:49:LYS:HD3	26:d4:49:LYS:N	2.20	0.56
29:d7:47:PHE:CE1	29:d7:49:HIS:HB2	2.41	0.56
34:sR:167:VAL:HG23	34:sR:183:LEU:HB2	1.88	0.56
36:5:2960:C:OP1	86:5:3473:OHX:N5	2.39	0.56
36:5:3215:A:O5'	50:m4:121:MET:HE1	2.05	0.56
1:2:280:U:O2'	1:2:281:G:OP2	2.22	0.56
1:2:393:C:OP2	10:S8:2:GLY:N	2.39	0.56
1:2:649:U:O2'	1:2:650:U:O5'	2.21	0.56
1:2:1147:A:H2'	1:2:1148:C:H6	1.70	0.56
3:S1:77:GLU:OE1	16:C4:114:ARG:NH1	2.35	0.56
5:S3:202:LEU:H	5:S3:202:LEU:HD22	1.71	0.56
36:1:1230:G:H2'	36:1:1231:A:C8	2.40	0.56
36:1:2734:A:OP1	86:1:3543:OHX:N3	2.39	0.56
36:1:3393:U:H2'	36:1:3394:U:C6	2.41	0.56
39:L2:108:PRO:O	39:L2:111:THR:OG1	2.17	0.56
41:L4:181:VAL:O	41:L4:182:LEU:HB3	2.04	0.56
57:N1:17:ARG:HE	57:N1:47:SER:HB3	1.70	0.56
2:s0:66:ALA:HB1	23:d1:50:TYR:CE1	2.41	0.56
4:s2:69:ILE:HG12	4:s2:133:LYS:HB3	1.88	0.56
11:s9:77:ILE:HD13	11:s9:91:LYS:O	2.05	0.56
11:s9:148:VAL:HG11	11:s9:156:ILE:HD11	1.88	0.56
11:s9:171:ARG:HE	11:s9:174:ARG:HB2	1.70	0.56
18:c6:55:VAL:HG21	18:c6:105:LEU:HG	1.87	0.56
36:5:748:U:H2'	36:5:749:C:C6	2.41	0.56
36:5:2512:C:N4	36:5:2513:U:O4	2.38	0.56
36:5:3065:G:O6	86:5:3606:OHX:N4	2.39	0.56
38:8:41:A:O2'	73:o7:59:THR:HG22	2.05	0.56
39:l2:70:ARG:HD2	39:l2:72:ARG:HE	1.70	0.56
1:2:131:C:O2'	1:2:132:U:OP1	2.24	0.56
1:2:1236:A:C1'	33:E1:138:ARG:HH22	2.18	0.56
1:2:1629:G:H2'	1:2:1630:U:C6	2.40	0.56
1:2:1629:G:H2'	1:2:1630:U:H6	1.70	0.56
3:S1:62:LYS:C	3:S1:64:ARG:H	2.14	0.56
12:C0:23:ALA:O	12:C0:64:TYR:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:126:ARG:HB3	20:C8:133:VAL:HG13	1.87	0.56
28:D6:62:TYR:CG	28:D6:63:ALA:N	2.73	0.56
35:SM:99:LYS:O	35:SM:100:THR:HG22	2.06	0.56
36:1:2307:G:O2'	36:1:2310:U:OP2	2.22	0.56
36:1:2896:A:O2'	76:Q0:122:ARG:NH2	2.39	0.56
36:1:3330:A:H4'	40:L3:365:PHE:O	2.06	0.56
39:L2:204:MET:HE3	39:L2:208:ASP:HB3	1.87	0.56
57:N1:50:LYS:HB3	57:N1:92:ARG:NH1	2.20	0.56
66:O0:26:GLY:O	66:O0:30:THR:HG23	2.05	0.56
1:6:1455:G:OP1	17:c5:122:THR:HG21	2.05	0.56
2:s0:184:LEU:HD12	23:d1:45:ALA:HB2	1.88	0.56
4:s2:143:TYR:CD2	4:s2:147:ASN:HA	2.41	0.56
36:5:412:G:OP1	53:m7:62:ARG:NH1	2.38	0.56
36:5:1804:A:H2'	36:5:1805:C:C6	2.41	0.56
36:5:2436:U:H3	36:5:2511:A:N6	2.01	0.56
36:5:3289:G:O6	86:5:3602:OHX:N6	2.39	0.56
44:l7:73:GLY:O	57:n1:143:THR:HB	2.05	0.56
46:l9:26:LYS:HG3	46:l9:35:THR:HG22	1.87	0.56
55:m9:109:TYR:HB3	55:m9:115:ILE:HG12	1.88	0.56
1:2:1711:C:H2'	1:2:1712:A:H5"	1.88	0.56
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.06	0.56
11:S9:113:VAL:HG21	11:S9:134:ILE:HG13	1.88	0.56
36:1:439:C:H3'	36:1:440:A:C8	2.40	0.56
36:1:1240:A:H2	36:1:1248:C:H41	1.53	0.56
36:1:2748:A:H1'	42:L5:36:LEU:HD23	1.88	0.56
42:L5:279:LYS:HG2	42:L5:282:ARG:HH12	1.71	0.56
44:L7:203:TRP:CD1	44:L7:204:PRO:HD2	2.41	0.56
47:M0:99:ILE:HG22	47:M0:123:HIS:HB2	1.88	0.56
53:M7:105:LYS:HB3	53:M7:107:LEU:HD13	1.88	0.56
58:N2:50:LEU:HB3	58:N2:54:VAL:HG23	1.88	0.56
67:O1:84:ASP:N	67:O1:84:ASP:OD1	2.39	0.56
7:s5:127:GLN:HG2	7:s5:128:ASN:H	1.70	0.56
36:5:2659:G:H4'	36:5:2751:G:O2'	2.05	0.56
1:2:514:G:N1	1:2:543:C:H5	2.03	0.56
1:2:514:G:O2'	1:2:515:A:H5'	2.06	0.56
1:2:1490:C:H4'	1:2:1491:U:OP1	2.05	0.56
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	1.86	0.56
27:D5:61:SER:H	27:D5:64:VAL:HB	1.69	0.56
36:1:1414:G:N7	86:1:3653:OHX:N2	2.54	0.56
40:L3:4:ARG:O	40:L3:5:LYS:HB3	2.06	0.56
62:N6:32:SER:HA	62:N6:49:PRO:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:24:ARG:HD3	68:O2:25:TYR:CZ	2.41	0.56
1:6:691:C:P	1:6:696:C:H41	2.28	0.56
5:s3:43:PRO:O	5:s3:44:THR:HG22	2.06	0.56
9:s7:132:PRO:O	9:s7:133:THR:OG1	2.24	0.56
16:c4:104:ALA:HA	16:c4:107:ARG:HB3	1.88	0.56
36:5:770:G:N7	86:5:3597:OHX:N6	2.54	0.56
36:5:1915:A:H2'	36:5:1916:U:C6	2.41	0.56
36:5:2509:U:H2'	36:5:2510:U:H5"	1.88	0.56
52:m6:180:SER:OG	52:m6:181:ALA:N	2.39	0.56
12:C0:16:PHE:O	12:C0:88:PRO:HA	2.05	0.55
13:C1:75:VAL:HA	13:C1:86:ILE:HG22	1.87	0.55
17:C5:65:LEU:O	86:C5:201:OHX:N1	2.39	0.55
36:1:1310:G:N7	86:1:3564:OHX:N5	2.55	0.55
36:1:3330:A:H4'	40:L3:366:GLY:HA3	1.88	0.55
68:O2:12:LYS:HD3	68:O2:57:TYR:HA	1.88	0.55
6:s4:103:TYR:HB2	6:s4:182:TYR:HE2	1.71	0.55
7:s5:41:LYS:NZ	7:s5:67:PRO:O	2.38	0.55
12:c0:1:MET:HE2	12:c0:41:TYR:HE1	1.72	0.55
36:5:507:U:H2'	36:5:508:U:C6	2.42	0.55
36:5:1249:G:H2'	36:5:1250:G:H8	1.71	0.55
36:5:3064:U:O4	86:5:3606:OHX:N6	2.39	0.55
36:5:3308:C:O2	53:m7:69:ARG:HD3	2.07	0.55
57:n1:118:GLU:OE1	57:n1:122:GLN:NE2	2.30	0.55
84:p0:198:PRO:HG2	84:p0:201:ILE:H	1.71	0.55
1:2:325:G:H4'	13:C1:83:THR:HG21	1.87	0.55
1:2:912:U:H4'	1:2:913:G:O5'	2.06	0.55
1:2:927:C:H1'	16:C4:125:SER:CB	2.36	0.55
2:S0:52:LYS:HA	23:D1:82:VAL:HG22	1.87	0.55
6:S4:141:THR:OG1	6:S4:143:ASP:OD2	2.21	0.55
26:D4:106:GLN:HA	26:D4:109:LYS:HD2	1.88	0.55
33:E1:135:HIS:HB2	33:E1:138:ARG:HB2	1.88	0.55
36:1:409:A:OP2	86:1:3592:OHX:N5	2.39	0.55
36:1:2338:C:H1'	59:N3:49:LEU:HD12	1.87	0.55
36:1:2395:G:H4'	40:L3:258:ALA:HB1	1.89	0.55
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.39	0.55
41:L4:342:LYS:NZ	44:L7:56:GLU:OE2	2.27	0.55
46:L9:112:ILE:HG21	46:L9:161:LEU:HD11	1.88	0.55
47:M0:76:MET:HE3	47:M0:148:VAL:HA	1.86	0.55
48:M1:133:ARG:HD2	48:M1:152:HIS:O	2.06	0.55
59:N3:120:LYS:N	59:N3:137:VAL:HG23	2.21	0.55
63:N7:4:PHE:CZ	66:O0:35:ARG:HA	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:653:C:N3	1:6:677:G:N2	2.42	0.55
1:6:1458:G:H5"	1:6:1459:C:OP2	2.06	0.55
1:6:1569:A:OP2	1:6:1569:A:H8	1.89	0.55
13:c1:21:ASN:ND2	13:c1:31:THR:HA	2.21	0.55
20:c8:15:LEU:H	20:c8:15:LEU:HD22	1.70	0.55
36:5:583:G:O6	86:5:3523:OHX:N1	2.39	0.55
36:5:944:C:H4'	68:o2:33:ARG:NH1	2.20	0.55
36:5:1364:C:OP1	44:l7:110:ARG:NH2	2.40	0.55
36:5:2339:C:OP2	59:n3:48:ARG:NH1	2.39	0.55
42:l5:258:LYS:O	42:l5:258:LYS:HG2	2.06	0.55
46:l9:106:LYS:HE3	46:l9:107:ASP:H	1.70	0.55
1:2:623:A:OP1	86:2:2021:OHX:N1	2.39	0.55
1:2:647:G:N2	1:2:687:G:H22	2.04	0.55
1:2:978:A:H2'	1:2:979:A:O4'	2.06	0.55
1:2:1291:G:O5'	1:2:1291:G:H8	1.89	0.55
36:1:944:C:H4'	68:O2:33:ARG:NH1	2.21	0.55
36:1:2357:A:H2'	36:1:2358:A:C8	2.42	0.55
36:1:2623:G:H2'	36:1:2624:G:H8	1.71	0.55
36:1:3018:C:H2'	36:1:3019:U:O4'	2.07	0.55
38:4:90:U:O2	86:4:209:OHX:N1	2.40	0.55
39:L2:108:PRO:HG2	79:Q3:86:LEU:HD13	1.87	0.55
40:L3:187:SER:O	40:L3:190:GLU:N	2.39	0.55
61:N5:25:LYS:H	61:N5:25:LYS:HD2	1.72	0.55
63:N7:10:VAL:HB	63:N7:83:THR:HG21	1.87	0.55
1:6:165:G:N7	86:6:2018:OHX:N4	2.55	0.55
1:6:1175:U:H2'	1:6:1176:G:C8	2.42	0.55
1:6:1691:A:H2'	1:6:1692:G:C8	2.42	0.55
18:c6:39:VAL:O	18:c6:45:ARG:NE	2.29	0.55
36:5:712:G:H2'	36:5:713:U:C6	2.42	0.55
36:5:1078:U:O4	86:5:3500:OHX:N1	2.39	0.55
39:l2:70:ARG:HD2	39:l2:72:ARG:NE	2.21	0.55
49:m3:177:LYS:HA	72:o6:11:LEU:HD22	1.87	0.55
52:m6:110:PRO:O	52:m6:111:PRO:C	2.50	0.55
56:n0:13:ARG:NH2	56:n0:50:LYS:O	2.38	0.55
68:o2:24:ARG:HG2	68:o2:25:TYR:CZ	2.40	0.55
71:o5:64:GLU:OE1	71:o5:68:GLN:NE2	2.39	0.55
1:2:565:C:O2	86:2:1917:OHX:N5	2.40	0.55
1:2:1402:G:H2'	1:2:1403:C:C6	2.42	0.55
8:S6:186:ARG:O	8:S6:190:GLN:HG2	2.07	0.55
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.42	0.55
27:D5:85:LYS:HG3	27:D5:86:GLU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:75:VAL:O	28:D6:78:ALA:N	2.40	0.55
36:1:671:U:OP2	54:M8:57:ILE:HD12	2.05	0.55
36:1:805:G:H1'	41:L4:73:ARG:NH1	2.22	0.55
36:1:2585:G:N7	45:L8:47:SER:OG	2.39	0.55
36:1:3228:C:H4'	36:1:3229:G:O5'	2.06	0.55
37:3:26:C:H5"	42:L5:56:THR:HB	1.87	0.55
38:4:55:U:O2	86:4:209:OHX:N6	2.39	0.55
50:M4:36:VAL:HG11	50:M4:55:ARG:NH2	2.20	0.55
53:M7:50:GLN:OE1	53:M7:56:ARG:HD3	2.06	0.55
57:N1:86:GLU:OE1	57:N1:88:ARG:NH1	2.38	0.55
60:N4:5:ILE:HD12	60:N4:10:GLY:HA2	1.87	0.55
1:6:517:U:O4	86:6:1957:OHX:N4	2.39	0.55
1:6:882:U:H2'	1:6:883:C:C6	2.42	0.55
1:6:1178:G:H4'	80:sM:83:LYS:HE2	1.88	0.55
6:s4:49:ARG:HG3	6:s4:50:ASN:H	1.72	0.55
19:c7:36:ASP:OD2	19:c7:36:ASP:N	2.39	0.55
36:5:90:C:H2'	36:5:91:G:H5'	1.88	0.55
36:5:374:A:H4'	36:5:375:A:OP1	2.07	0.55
36:5:1213:G:OP1	56:n0:137:ARG:HD3	2.06	0.55
36:5:1556:C:O2'	86:5:3455:OHX:N1	2.40	0.55
36:5:1824:U:O3'	74:o8:17:ARG:NH2	2.39	0.55
36:5:2211:U:H5	36:5:2234:G:O6	1.89	0.55
36:5:2741:C:H4'	78:q2:19:LYS:HA	1.89	0.55
36:5:2812:C:H2'	36:5:2813:A:C8	2.41	0.55
64:n8:73:LEU:HD23	64:n8:109:TYR:CZ	2.41	0.55
64:n8:112:ILE:HB	64:n8:130:VAL:HG12	1.88	0.55
67:o1:31:ARG:O	67:o1:35:GLU:HB2	2.07	0.55
1:2:140:A:N6	1:2:281:G:OP1	2.31	0.55
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	1.88	0.55
9:S7:74:GLN:HG2	9:S7:131:PHE:CD1	2.41	0.55
36:1:2563:G:H5"	45:L8:27:THR:HG23	1.87	0.55
47:M0:89:VAL:HG22	47:M0:136:PHE:CE1	2.42	0.55
59:N3:80:ARG:HB2	59:N3:99:ALA:HB3	1.88	0.55
60:N4:46:PRO:HB3	60:N4:52:THR:HG21	1.88	0.55
15:c3:22:ALA:HB1	15:c3:23:PRO:HA	1.87	0.55
22:d0:33:GLN:OE1	22:d0:33:GLN:N	2.39	0.55
24:d2:83:ILE:HD12	24:d2:122:SER:HB2	1.89	0.55
28:d6:4:LYS:HE2	28:d6:5:ARG:NH2	2.21	0.55
36:5:3:U:H3	38:8:156:U:H3	1.54	0.55
36:5:22:G:H1'	38:8:104:A:N3	2.21	0.55
36:5:528:U:H2'	36:5:529:A:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2730:G:H4'	54:m8:184:PHE:CG	2.41	0.55
54:m8:170:ARG:O	54:m8:171:LYS:HB2	2.07	0.55
62:n6:3:LYS:HD2	62:n6:8:VAL:HG12	1.87	0.55
63:n7:5:LEU:HD22	63:n7:77:TYR:CZ	2.41	0.55
1:2:1572:G:H1'	7:S5:185:ARG:HH12	1.71	0.55
19:C7:20:TYR:CE1	19:C7:38:ILE:HD11	2.41	0.55
36:1:59:G:H2'	38:4:33:A:O2'	2.07	0.55
41:L4:140:HIS:HA	41:L4:177:ASP:OD1	2.06	0.55
49:M3:157:ARG:HG2	49:M3:158:ALA:N	2.20	0.55
68:O2:64:LYS:HD3	68:O2:65:PHE:CE2	2.41	0.55
1:6:1146:G:H4'	4:s2:89:GLN:HB3	1.88	0.55
7:s5:26:ALA:HB3	18:c6:28:LEU:N	2.22	0.55
7:s5:166:ARG:HA	7:s5:169:ASN:HB2	1.87	0.55
8:s6:78:THR:HG22	8:s6:79:LYS:H	1.72	0.55
10:s8:62:THR:O	10:s8:62:THR:OG1	2.22	0.55
10:s8:138:ASN:HA	10:s8:141:ARG:HB2	1.89	0.55
36:5:304:G:N3	36:5:304:G:H5'	2.21	0.55
36:5:908:G:H4'	36:5:909:G:O5'	2.06	0.55
1:2:1290:U:H2'	1:2:1291:G:C8	2.42	0.55
1:2:1528:U:OP1	7:S5:109:LYS:HG2	2.06	0.55
1:2:1647:U:O2	32:E0:2:ALA:N	2.39	0.55
4:S2:38:VAL:O	4:S2:39:THR:OG1	2.22	0.55
6:S4:147:ILE:HG21	6:S4:169:ILE:HG13	1.89	0.55
22:D0:20:ILE:HG13	22:D0:95:ALA:O	2.07	0.55
24:D2:76:SER:OG	24:D2:77:PRO:HD3	2.06	0.55
36:1:2683:U:H2'	36:1:2684:C:C6	2.40	0.55
36:1:3084:C:H2'	36:1:3085:G:O4'	2.07	0.55
36:1:3165:A:H2'	36:1:3166:C:C6	2.42	0.55
40:L3:169:THR:HG22	40:L3:171:LEU:H	1.72	0.55
45:L8:95:ASN:OD1	45:L8:98:ARG:NH2	2.40	0.55
46:L9:75:VAL:HA	46:L9:78:MET:HE2	1.89	0.55
47:M0:19:LYS:HE3	47:M0:26:VAL:HG22	1.89	0.55
36:5:1355:A:H1'	36:5:1356:U:OP2	2.07	0.55
36:5:2209:U:H4'	36:5:2210:G:OP1	2.06	0.55
36:5:2916:U:H5	36:5:2935:U:HO2'	1.55	0.55
51:m5:168:GLY:O	51:m5:172:ARG:HB2	2.06	0.55
53:m7:64:ASN:O	53:m7:80:LYS:NZ	2.40	0.55
53:m7:116:HIS:HB3	53:m7:149:VAL:HG13	1.88	0.55
68:o2:34:LYS:O	68:o2:36:LYS:NZ	2.38	0.55
76:q0:106:ARG:HB2	76:q0:106:ARG:HH11	1.71	0.55
3:S1:86:LEU:HB3	3:S1:98:THR:OG1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:214:GLU:OE1	34:SR:176:LYS:NZ	2.33	0.55
20:C8:86:LEU:HG	20:C8:99:HIS:HB2	1.88	0.55
21:C9:4:VAL:HG11	21:C9:137:ALA:HB2	1.88	0.55
36:1:1851:G:OP2	86:1:3515:OHX:N1	2.39	0.55
86:1:3496:OHX:N4	44:L7:217:PRO:HA	2.22	0.55
40:L3:19:ARG:HG3	40:L3:273:HIS:CE1	2.42	0.55
53:M7:64:ASN:O	53:M7:67:ILE:HB	2.07	0.55
55:M9:28:GLU:OE2	86:M9:201:OHX:N5	2.40	0.55
64:N8:48:TYR:O	64:N8:49:HIS:ND1	2.40	0.55
1:6:397:A:O3'	10:s8:50:GLY:HA2	2.07	0.55
1:6:1454:G:O3'	17:c5:122:THR:OG1	2.24	0.55
1:6:1616:G:N7	86:6:1995:OHX:N5	2.55	0.55
7:s5:43:PHE:HB3	7:s5:46:TRP:HD1	1.71	0.55
34:sR:116:ASP:HA	34:sR:156:VAL:HG11	1.89	0.55
36:5:271:C:O2	72:o6:82:ARG:NH2	2.33	0.55
36:5:990:U:H1'	57:n1:101:CYS:HB3	1.89	0.55
36:5:1637:A:H5"	63:n7:16:GLY:HA3	1.88	0.55
66:o0:40:LYS:N	66:o0:40:LYS:HD2	2.22	0.55
1:2:209:U:H2'	1:2:210:A:C8	2.42	0.55
1:2:843:U:H2'	1:2:844:A:C8	2.42	0.55
1:2:1426:C:H5"	35:SM:93:ARG:HH12	1.71	0.55
28:D6:60:PRO:C	28:D6:62:TYR:H	2.15	0.55
36:1:279:U:H2'	36:1:280:U:C6	2.42	0.55
36:1:812:G:N7	86:1:3521:OHX:N1	2.55	0.55
36:1:2565:U:H2'	36:1:2566:C:C6	2.41	0.55
36:1:3138:U:H2'	36:1:3139:A:H5"	1.89	0.55
41:L4:302:ALA:HB2	54:M8:39:ARG:CZ	2.36	0.55
67:O1:74:ARG:HH12	67:O1:109:VAL:HG21	1.72	0.55
68:O2:41:VAL:HG12	68:O2:46:PHE:HB2	1.89	0.55
1:6:66:U:C5	8:s6:173:PRO:HG3	2.42	0.55
1:6:1559:A:H5"	20:c8:135:GLY:HA3	1.89	0.55
1:6:1564:U:H2'	1:6:1565:C:C6	2.41	0.55
16:c4:29:HIS:CD2	16:c4:41:ARG:HB2	2.41	0.55
36:5:249:U:O2'	36:5:250:U:H5"	2.07	0.55
36:5:255:A:H2'	36:5:256:G:C8	2.42	0.55
36:5:2239:G:N7	86:5:3685:OHX:N5	2.55	0.55
38:8:45:C:O3'	75:o9:11:GLN:NE2	2.40	0.55
81:l8:162:LEU:HA	51:m5:7:LEU:HD11	1.89	0.55
47:m0:74:LYS:O	47:m0:78:THR:HG23	2.07	0.55
57:n1:13:TYR:O	86:n1:201:OHX:N4	2.40	0.55
74:o8:44:LYS:HG2	74:o8:53:THR:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.71	0.55
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	1.89	0.55
18:C6:32:ASN:ND2	18:C6:69:VAL:H	2.05	0.55
34:SR:136:ILE:H	34:SR:136:ILE:HD13	1.72	0.55
44:L7:75:TYR:HB2	57:N1:141:VAL:HG22	1.89	0.55
50:M4:24:LYS:HG3	50:M4:25:LYS:HD3	1.88	0.55
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.38	0.55
69:O3:14:LEU:HD11	69:O3:31:LYS:HB2	1.88	0.55
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	2.07	0.55
1:6:193:U:C2	1:6:195:G:H1'	2.42	0.55
1:6:333:A:OP1	10:s8:31:ARG:NH2	2.39	0.55
1:6:833:U:O4	86:6:1956:OHX:N6	2.40	0.55
1:6:1460:A:OP2	80:sM:68:ARG:NH2	2.39	0.55
10:s8:136:SER:HB2	10:s8:139:ALA:HB3	1.89	0.55
13:c1:16:GLN:NE2	13:c1:34:TRP:O	2.39	0.55
36:5:992:A:H5"	57:n1:43:LYS:HD2	1.89	0.55
36:5:1949:G:OP2	55:m9:135:LYS:NZ	2.35	0.55
36:5:2256:A:H2'	36:5:2256:A:OP2	2.07	0.55
39:l2:201:GLY:HA2	39:l2:204:MET:SD	2.47	0.55
41:l4:148:ILE:HA	41:l4:149:PRO:C	2.32	0.55
71:o5:45:LYS:O	71:o5:49:LYS:HG2	2.06	0.55
1:2:170:U:H3	1:2:289:U:HO2'	1.54	0.54
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.88	0.54
9:S7:129:LEU:HD21	9:S7:172:VAL:HG11	1.89	0.54
17:C5:126:VAL:HG13	35:SM:71:ASN:HD21	1.72	0.54
27:D5:42:LEU:O	27:D5:46:LYS:HB2	2.07	0.54
36:1:624:G:P	69:O3:86:ARG:HH12	2.30	0.54
36:1:2261:G:H21	36:1:2262:A:N6	2.05	0.54
36:1:2403:G:N2	36:1:2404:A:H62	2.04	0.54
61:N5:73:MET:HE1	61:N5:141:TYR:CD1	2.43	0.54
66:O0:24:THR:HG23	66:O0:91:SER:HB3	1.89	0.54
1:6:7:G:O6	4:s2:205:ARG:NH2	2.40	0.54
1:6:1714:A:H2'	1:6:1715:G:O4'	2.06	0.54
22:d0:36:ASN:HA	22:d0:39:SER:HB2	1.89	0.54
25:d3:72:VAL:HG11	25:d3:96:VAL:HG21	1.89	0.54
36:5:607:A:OP1	43:l6:26:ARG:NH2	2.40	0.54
36:5:1580:A:O2'	36:5:1581:C:OP2	2.25	0.54
36:5:2528:G:N7	86:5:3697:OHX:N3	2.55	0.54
40:l3:76:VAL:HG11	40:l3:323:MET:HE3	1.89	0.54
82:m2:63:UNK:HA	82:m2:71:UNK:O	2.07	0.54
53:m7:27:LYS:HE2	53:m7:63:PHE:CD1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:q2:48:SER:O	86:q2:502:OHX:N3	2.41	0.54
1:2:704:C:H3'	1:2:704:C:OP2	2.07	0.54
1:2:1542:G:N2	1:2:1568:C:H1'	2.23	0.54
3:S1:35:PRO:HG3	3:S1:98:THR:O	2.05	0.54
20:C8:146:ALA:H	35:SM:68:ARG:HH21	1.55	0.54
25:D3:12:ALA:O	25:D3:16:ARG:HG3	2.06	0.54
36:1:380:U:H2'	36:1:381:U:C6	2.42	0.54
36:1:2532:U:H3	36:1:2547:A:H61	1.54	0.54
41:L4:361:HIS:O	56:N0:28:ARG:NH2	2.39	0.54
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.89	0.54
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.89	0.54
52:M6:119:VAL:HG12	56:N0:164:SER:HB3	1.89	0.54
57:N1:91:LEU:HD12	57:N1:96:ILE:HD11	1.88	0.54
8:s6:84:TYR:OH	8:s6:91:GLU:O	2.21	0.54
8:s6:156:PHE:O	83:n4:93:ARG:NH1	2.40	0.54
13:c1:109:VAL:HG11	13:c1:125:VAL:HG21	1.89	0.54
36:5:279:U:H2'	36:5:280:U:C6	2.42	0.54
36:5:903:U:OP2	73:o7:30:GLN:NE2	2.40	0.54
36:5:913:A:H2	36:5:2134:G:N3	2.05	0.54
36:5:1783:U:H2'	36:5:1784:G:H8	1.71	0.54
36:5:1816:A:H2'	36:5:1817:G:H5"	1.90	0.54
36:5:3051:U:H1'	59:n3:92:PHE:CE1	2.42	0.54
36:5:3358:U:H2'	36:5:3359:A:H8	1.72	0.54
47:m0:47:PRO:HD2	47:m0:141:LYS:HA	1.88	0.54
47:m0:76:MET:HE1	47:m0:148:VAL:HA	1.88	0.54
61:n5:105:VAL:HG13	61:n5:130:TYR:CG	2.43	0.54
85:p1:38:UNK:O	85:p1:42:UNK:N	2.40	0.54
6:S4:55:ALA:HB1	6:S4:60:GLU:HB3	1.90	0.54
21:C9:118:PRO:C	21:C9:120:GLY:H	2.16	0.54
36:1:209:A:OP1	41:L4:161:LYS:NZ	2.41	0.54
36:1:210:U:C2	36:1:230:U:H4'	2.42	0.54
36:1:664:U:H5'	41:L4:107:ARG:HA	1.90	0.54
36:1:1454:A:H5"	36:1:1455:U:H5'	1.89	0.54
36:1:3151:U:OP2	40:L3:132:LYS:NZ	2.34	0.54
61:N5:103:TYR:O	61:N5:105:VAL:HG23	2.07	0.54
65:N9:14:ARG:CZ	65:N9:18:ARG:HD2	2.37	0.54
78:Q2:46:LYS:HD3	78:Q2:54:THR:HB	1.89	0.54
1:6:1003:A:H4'	1:6:1004:U:O5'	2.08	0.54
1:6:1699:G:N1	1:6:1701:A:H5"	2.23	0.54
2:s0:88:LYS:HB3	2:s0:202:TYR:CZ	2.43	0.54
2:s0:179:ARG:HD3	2:s0:183:ARG:NE	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s6:84:TYR:OH	8:s6:91:GLU:OE1	2.26	0.54
11:s9:65:LYS:HA	11:s9:70:LEU:HD11	1.88	0.54
17:c5:100:LYS:HG3	17:c5:101:ALA:H	1.72	0.54
36:5:1313:G:H2'	36:5:1314:C:H6	1.72	0.54
36:5:1592:G:OP1	70:o4:58:ARG:NH1	2.41	0.54
36:5:2439:A:N6	36:5:2508:U:H3	2.05	0.54
36:5:2676:A:H4'	36:5:2677:G:O5'	2.06	0.54
39:l2:149:ARG:NH2	39:l2:252:THR:O	2.40	0.54
52:m6:110:PRO:O	52:m6:112:TYR:N	2.41	0.54
1:2:158:U:O2'	1:2:159:U:H3'	2.08	0.54
1:2:527:A:OP2	86:2:1931:OHX:N4	2.41	0.54
1:2:689:G:O6	86:2:2017:OHX:N1	2.40	0.54
20:C8:110:ARG:HB3	20:C8:110:ARG:NH1	2.22	0.54
27:D5:43:ASP:HB2	27:D5:46:LYS:HD2	1.88	0.54
34:SR:179:LYS:NZ	34:SR:191:ASP:OD1	2.36	0.54
35:SM:36:ASP:HB2	48:M1:61:ARG:HD3	1.90	0.54
36:1:290:G:H1'	51:M5:93:LYS:HD2	1.89	0.54
36:1:368:G:OP1	86:1:3420:OHX:N1	2.41	0.54
36:1:718:G:C2	36:1:721:G:H1'	2.42	0.54
36:1:1364:C:OP1	44:L7:110:ARG:NH2	2.36	0.54
36:1:1485:G:O6	86:1:3513:OHX:N2	2.41	0.54
36:1:2644:C:O2	47:M0:116:ARG:HD3	2.08	0.54
36:1:3095:U:H2'	36:1:3096:C:C6	2.43	0.54
36:1:3185:U:HO2'	56:N0:170:THR:HG1	1.49	0.54
40:L3:227:GLU:HG2	40:L3:270:ARG:HD3	1.89	0.54
42:L5:236:LEU:HD12	42:L5:239:ILE:HD12	1.89	0.54
44:L7:136:TYR:CZ	44:L7:231:ASN:HB2	2.42	0.54
45:L8:82:LEU:HD13	45:L8:222:PHE:HE2	1.71	0.54
63:N7:53:VAL:HA	63:N7:57:HIS:CD2	2.42	0.54
71:O5:31:LEU:HD22	71:O5:47:VAL:HG11	1.90	0.54
3:s1:65:VAL:O	16:c4:34:SER:OG	2.25	0.54
11:s9:123:HIS:CE1	32:e0:37:ARG:HB2	2.42	0.54
25:d3:56:LYS:NZ	25:d3:96:VAL:O	2.41	0.54
26:d4:51:GLU:HG2	26:d4:51:GLU:O	2.06	0.54
34:sR:19:TRP:HB2	34:sR:38:ARG:HG3	1.89	0.54
36:5:126:U:H2'	36:5:127:G:O4'	2.07	0.54
36:5:174:C:H2'	36:5:175:C:O4'	2.07	0.54
36:5:255:A:H2'	36:5:256:G:H8	1.71	0.54
36:5:2827:U:O4	86:5:3403:OHX:N6	2.40	0.54
62:n6:52:ARG:HA	62:n6:70:ILE:HG22	1.89	0.54
71:o5:86:ARG:O	71:o5:90:ARG:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:478:A:O2'	11:S9:124:HIS:ND1	2.24	0.54
1:2:1291:G:H5'	4:S2:119:LYS:HE2	1.89	0.54
1:2:1401:A:O3'	19:C7:10:LYS:NZ	2.39	0.54
1:2:1672:G:H2'	1:2:1673:G:C8	2.43	0.54
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.07	0.54
9:S7:16:LEU:HD22	9:S7:58:LEU:HD21	1.90	0.54
26:D4:47:VAL:O	26:D4:49:LYS:NZ	2.27	0.54
36:1:1577:G:H2'	36:1:1578:C:O4'	2.07	0.54
36:1:2688:U:OP1	42:L5:12:TYR:OH	2.12	0.54
37:3:11:A:N6	42:L5:13:SER:O	2.39	0.54
39:L2:202:VAL:HG13	39:L2:217:GLN:HB3	1.89	0.54
49:M3:109:PHE:O	49:M3:113:VAL:HG23	2.08	0.54
70:O4:3:GLN:HB3	70:O4:30:LEU:HD12	1.89	0.54
79:Q3:13:LYS:HE3	79:Q3:14:TYR:CZ	2.43	0.54
5:s3:116:ARG:HB2	5:s3:116:ARG:NH1	2.23	0.54
21:c9:105:LEU:HD13	21:c9:122:ARG:HD3	1.89	0.54
22:d0:103:ILE:HA	22:d0:106:ILE:HG22	1.88	0.54
30:d8:13:ILE:HD12	30:d8:29:ARG:HG2	1.90	0.54
54:m8:134:GLY:O	54:m8:137:THR:OG1	2.26	0.54
18:C6:99:GLU:HB2	34:SR:58:VAL:O	2.07	0.54
36:1:118:U:O2	36:1:121:A:H5'	2.07	0.54
36:1:603:A:H2'	36:1:604:G:O4'	2.07	0.54
36:1:1950:U:H3	36:1:2096:A:H2	1.54	0.54
39:L2:204:MET:CE	39:L2:209:HIS:HB2	2.37	0.54
40:L3:62:ARG:H	40:L3:68:HIS:HD1	1.56	0.54
46:L9:52:LEU:HD22	46:L9:53:ILE:H	1.73	0.54
67:O1:5:LYS:O	67:O1:6:ASP:HB2	2.07	0.54
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.89	0.54
1:6:1201:G:N2	1:6:1600:A:H5'	2.22	0.54
1:6:1542:G:N2	1:6:1568:C:H1'	2.22	0.54
1:6:1600:A:H4'	1:6:1601:G:OP1	2.07	0.54
1:6:1609:U:O2'	7:s5:105:GLY:O	2.22	0.54
6:s4:87:MET:HE3	6:s4:226:PHE:CE1	2.42	0.54
27:d5:86:GLU:O	27:d5:88:ILE:N	2.37	0.54
36:5:135:C:O2'	71:o5:95:PHE:N	2.33	0.54
36:5:191:U:H2'	36:5:192:C:C6	2.42	0.54
81:l8:134:TYR:CG	81:l8:190:VAL:HG11	2.42	0.54
53:m7:60:PHE:HB3	53:m7:64:ASN:HB3	1.89	0.54
64:n8:77:LYS:O	64:n8:79:TRP:N	2.31	0.54
65:n9:18:ARG:O	86:n9:102:OHX:N4	2.41	0.54
75:o9:5:LYS:HD3	75:o9:13:MET:HE1	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1459:C:OP1	20:C8:126:ARG:NH2	2.41	0.54
6:S4:11:ARG:HB2	6:S4:26:CYS:O	2.07	0.54
24:D2:103:ILE:HA	24:D2:112:ASP:HA	1.89	0.54
36:1:510:G:O6	86:1:3544:OHX:N1	2.41	0.54
36:1:873:C:H5"	36:1:874:U:O5'	2.08	0.54
36:1:1029:G:H2'	36:1:1030:A:C8	2.42	0.54
36:1:1724:U:OP2	55:M9:128:LYS:NZ	2.41	0.54
36:1:2534:G:H2'	36:1:2535:A:H8	1.71	0.54
36:1:2896:A:OP1	76:Q0:102:ARG:NE	2.28	0.54
42:L5:85:ARG:HD2	42:L5:86:TYR:CE2	2.43	0.54
55:M9:67:ALA:O	55:M9:71:ARG:HG3	2.08	0.54
56:N0:91:TYR:OH	56:N0:93:GLU:OE2	2.26	0.54
58:N2:41:ILE:HG12	58:N2:79:LEU:HD13	1.89	0.54
1:6:1520:U:O2	86:6:1934:OHX:N4	2.41	0.54
2:s0:146:LEU:HB3	2:s0:162:CYS:SG	2.47	0.54
4:s2:230:TRP:NE1	24:d2:68:ARG:HB2	2.23	0.54
5:s3:75:LYS:HB3	12:c0:22:VAL:HG22	1.89	0.54
25:d3:70:LYS:HB3	25:d3:93:LEU:HD22	1.90	0.54
36:5:1519:G:H2'	36:5:1520:G:H8	1.71	0.54
36:5:2434:U:H4'	36:5:2435:G:H5"	1.88	0.54
36:5:2882:U:H2'	36:5:2883:U:C6	2.43	0.54
41:l4:6:VAL:N	41:l4:20:LEU:O	2.40	0.54
47:m0:73:ASN:O	47:m0:77:THR:HG23	2.07	0.54
63:n7:46:ILE:HG12	63:n7:49:TYR:CE1	2.42	0.54
1:2:523:G:H5"	26:D4:59:GLY:O	2.08	0.54
1:2:959:U:C6	15:C3:61:THR:HB	2.42	0.54
1:2:1597:A:OP2	31:D9:32:ARG:NH2	2.41	0.54
1:2:1657:U:N3	86:2:1964:OHX:N4	2.55	0.54
2:S0:150:ASP:OD1	2:S0:165:ARG:NH2	2.41	0.54
3:S1:176:VAL:C	3:S1:178:GLY:H	2.16	0.54
6:S4:131:LEU:HD11	6:S4:135:GLY:HA2	1.90	0.54
16:C4:30:VAL:HG22	16:C4:39:ILE:HG13	1.89	0.54
22:D0:55:PRO:HA	22:D0:91:ILE:HG12	1.90	0.54
36:1:1018:G:H2'	36:1:1019:G:O4'	2.08	0.54
36:1:1196:C:O2'	86:1:3531:OHX:N5	2.41	0.54
36:1:1308:A:OP2	36:1:1308:A:H8	1.88	0.54
45:L8:54:GLU:O	45:L8:58:VAL:HG23	2.08	0.54
50:M4:113:THR:HG22	50:M4:115:PHE:H	1.73	0.54
61:N5:100:LYS:HZ2	61:N5:107:VAL:H	1.55	0.54
1:6:383:G:N7	86:6:2000:OHX:N5	2.55	0.54
1:6:1004:U:O4	86:5:3457:OHX:N5	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1429:G:H2'	1:6:1430:U:C6	2.43	0.54
16:c4:42:VAL:HG13	16:c4:67:VAL:HG23	1.90	0.54
16:c4:88:GLY:O	16:c4:92:LYS:NZ	2.40	0.54
36:5:247:C:N3	36:5:248:U:H1'	2.22	0.54
36:5:1192:C:H5	86:5:3592:OHX:N5	2.05	0.54
36:5:1404:G:N7	86:5:3591:OHX:N6	2.55	0.54
36:5:2397:A:C2	36:5:2873:U:H5'	2.43	0.54
36:5:3106:A:H2'	36:5:3107:U:O4'	2.07	0.54
41:l4:74:ILE:HG12	41:l4:94:CYS:SG	2.47	0.54
42:l5:150:LEU:HD12	48:m1:143:ARG:HG3	1.90	0.54
47:m0:14:ASN:O	47:m0:128:ARG:NH2	2.40	0.54
63:n7:27:LYS:HB3	63:n7:42:LEU:HB2	1.89	0.54
68:o2:40:SER:O	68:o2:44:ARG:HG3	2.08	0.54
1:2:886:U:O2'	16:C4:121:VAL:O	2.26	0.54
3:S1:48:VAL:HG13	3:S1:61:LEU:HD11	1.89	0.54
3:S1:97:LEU:HD13	3:S1:98:THR:H	1.73	0.54
18:C6:27:GLY:HA2	18:C6:63:ILE:O	2.07	0.54
18:C6:112:TYR:OH	18:C6:114:ARG:NH1	2.40	0.54
19:C7:19:ARG:HG3	19:C7:20:TYR:CD1	2.43	0.54
33:E1:102:VAL:O	33:E1:104:SER:N	2.40	0.54
36:1:3103:A:OP2	86:1:3690:OHX:N5	2.41	0.54
36:1:3215:A:O5'	50:M4:121:MET:HE1	2.08	0.54
36:1:3308:C:O2	53:M7:69:ARG:HD3	2.07	0.54
67:O1:82:GLU:O	67:O1:82:GLU:HG3	2.08	0.54
1:6:189:C:H2'	1:6:190:C:H5'	1.90	0.54
1:6:794:U:H4'	1:6:795:U:OP2	2.07	0.54
1:6:1460:A:O2'	80:sM:72:ARG:NH1	2.41	0.54
3:s1:123:ALA:HB2	3:s1:165:ARG:HG2	1.88	0.54
6:s4:206:ASP:HB2	6:s4:222:LEU:HB2	1.90	0.54
8:s6:151:ASP:OD1	83:n4:101:ARG:NH1	2.41	0.54
12:c0:23:ALA:CB	12:c0:64:TYR:HB2	2.38	0.54
17:c5:122:THR:HG22	17:c5:123:TYR:HD1	1.72	0.54
18:c6:113:ASP:OD2	18:c6:116:LEU:N	2.41	0.54
36:5:1560:G:O2'	36:5:1561:G:OP1	2.25	0.54
40:l3:37:ARG:HG2	40:l3:187:SER:H	1.73	0.54
44:l7:221:LYS:O	44:l7:229:PHE:HB3	2.08	0.54
46:l9:89:LYS:HG2	46:l9:145:VAL:HG22	1.90	0.54
47:m0:169:LYS:O	47:m0:170:LYS:HD3	2.07	0.54
1:2:138:A:N6	1:2:266:A:H61	2.06	0.54
2:S0:69:ASN:OD1	4:S2:244:SER:OG	2.25	0.54
7:S5:123:VAL:HG21	27:D5:100:ILE:HD12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:662:U:OP1	64:N8:8:THR:HG21	2.08	0.54
36:1:2947:G:C2	40:L3:250:ALA:HB1	2.43	0.54
45:L8:67:ILE:HG22	45:L8:237:ILE:HB	1.89	0.54
51:M5:10:LEU:HD22	51:M5:19:LEU:HD13	1.88	0.54
51:M5:80:THR:HG21	51:M5:87:GLN:HA	1.90	0.54
62:N6:40:ARG:O	62:N6:44:GLY:N	2.39	0.54
1:6:230:C:N3	1:6:235:G:N2	2.42	0.54
1:6:828:U:H2'	1:6:829:A:H5"	1.90	0.54
1:6:1120:U:H2'	1:6:1121:C:C6	2.43	0.54
1:6:1553:G:N2	1:6:1555:A:H3'	2.23	0.54
1:6:1628:U:H2'	1:6:1629:G:C8	2.42	0.54
3:s1:35:PRO:HB3	3:s1:231:LEU:HD11	1.88	0.54
5:s3:164:VAL:O	5:s3:168:ILE:HG13	2.07	0.54
6:s4:251:GLU:O	6:s4:255:ARG:HG2	2.08	0.54
7:s5:37:GLN:OE1	18:c6:53:LEU:HD22	2.07	0.54
13:c1:57:LYS:HD3	13:c1:131:ILE:HG23	1.89	0.54
18:c6:82:ARG:HH22	18:c6:114:ARG:HG3	1.72	0.54
36:5:1348:U:OP2	54:m8:38:ARG:NH2	2.24	0.54
36:5:2836:C:H5	36:5:2852:C:N4	2.03	0.54
40:l3:25:ILE:HD11	40:l3:334:ARG:HE	1.71	0.54
48:m1:155:THR:O	48:m1:159:THR:HG23	2.08	0.54
3:S1:218:LEU:H	3:S1:218:LEU:HD22	1.73	0.53
6:S4:95:THR:HG22	26:D4:16:PRO:HB2	1.90	0.53
20:C8:126:ARG:HG2	20:C8:133:VAL:HA	1.90	0.53
34:SR:200:ASN:H	34:SR:215:GLY:HA2	1.73	0.53
35:SM:79:SER:HA	35:SM:82:THR:HG23	1.89	0.53
36:1:980:A:OP2	36:1:980:A:H8	1.92	0.53
36:1:2771:U:O2'	36:1:2772:C:O4'	2.22	0.53
36:1:3289:G:O6	86:1:3659:OHX:N4	2.41	0.53
37:3:97:A:H2'	37:3:98:C:H6	1.74	0.53
39:L2:96:LEU:O	79:Q3:87:ARG:HD3	2.08	0.53
39:L2:113:VAL:HG12	39:L2:134:VAL:HG22	1.89	0.53
39:L2:143:GLU:O	39:L2:145:LYS:HG2	2.08	0.53
41:L4:205:PRO:HB3	41:L4:247:PHE:CD2	2.44	0.53
1:6:151:G:O6	26:d4:124:ARG:NH2	2.41	0.53
1:6:169:A:H5"	8:s6:176:GLN:HG2	1.89	0.53
3:s1:48:VAL:HG21	3:s1:61:LEU:HD22	1.89	0.53
36:5:1717:U:H2'	36:5:1718:G:C8	2.43	0.53
36:5:2207:A:H62	36:5:2236:G:H1	1.54	0.53
36:5:2725:U:O4	86:5:3460:OHX:N1	2.42	0.53
36:5:2964:G:N7	86:5:3483:OHX:N6	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3011:A:N1	36:5:3043:C:O2'	2.38	0.53
36:5:3121:U:H1'	36:5:3122:A:H5"	1.90	0.53
39:l2:57:PRO:HG2	39:l2:78:ALA:HB3	1.90	0.53
41:l4:144:LYS:HG2	41:l4:145:ILE:N	2.22	0.53
41:l4:271:LYS:HB2	41:l4:274:TYR:HB3	1.90	0.53
1:2:793:A:H5"	1:2:794:U:C4	2.43	0.53
10:S8:11:ARG:O	13:C1:133:LYS:NZ	2.39	0.53
36:1:627:U:H4'	36:1:1399:A:O2'	2.08	0.53
36:1:679:U:O4	86:1:3510:OHX:N1	2.41	0.53
36:1:2882:U:H2'	36:1:2883:U:C6	2.42	0.53
36:1:3066:U:H2'	36:1:3067:C:C6	2.43	0.53
36:1:3139:A:H5"	36:1:3139:A:H8	1.73	0.53
86:1:3409:OHX:N2	38:4:1:A:OP1	2.41	0.53
86:1:3712:OHX:N4	86:O1:201:OHX:N1	2.56	0.53
40:L3:387:LEU:H	40:L3:387:LEU:HD12	1.74	0.53
47:M0:54:SER:HB2	47:M0:135:ILE:HD11	1.90	0.53
51:M5:27:VAL:HB	51:M5:122:ASN:ND2	2.23	0.53
1:6:197:A:H2'	1:6:198:A:H8	1.73	0.53
1:6:230:C:H42	1:6:235:G:H1	1.56	0.53
2:s0:116:LYS:HB2	2:s0:118:PRO:HD3	1.89	0.53
4:s2:166:THR:HG23	4:s2:201:ASN:HB3	1.90	0.53
5:s3:64:ARG:HG2	5:s3:65:ARG:H	1.73	0.53
5:s3:175:VAL:O	5:s3:181:VAL:HG22	2.09	0.53
11:s9:117:GLY:O	11:s9:119:ALA:N	2.41	0.53
13:c1:71:LEU:HB3	13:c1:88:ARG:NH1	2.22	0.53
14:c2:81:ASP:O	14:c2:83:GLU:N	2.40	0.53
20:c8:70:VAL:O	20:c8:74:GLN:HG2	2.08	0.53
36:5:289:A:H2'	36:5:290:G:H8	1.72	0.53
36:5:1781:C:H2'	36:5:1782:U:H6	1.71	0.53
36:5:3159:C:H2'	36:5:3160:U:C6	2.43	0.53
44:l7:84:VAL:HG12	44:l7:117:VAL:HB	1.90	0.53
46:l9:57:VAL:HG23	46:l9:68:LEU:HG	1.90	0.53
47:m0:84:ALA:O	47:m0:140:THR:HG22	2.08	0.53
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.42	0.53
1:2:518:A:O2'	1:2:534:A:N6	2.40	0.53
1:2:1449:U:H2'	1:2:1450:U:C6	2.43	0.53
5:S3:31:GLU:O	5:S3:54:ARG:NH1	2.42	0.53
12:C0:64:TYR:HB3	12:C0:66:TYR:CE2	2.43	0.53
28:D6:24:VAL:HG11	28:D6:71:LEU:HD12	1.89	0.53
36:1:73:C:C2	49:M3:59:ARG:HD3	2.44	0.53
36:1:562:C:H2'	36:1:563:U:C6	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1008:U:H4'	47:M0:34:TYR:HD1	1.73	0.53
36:1:1688:U:H2'	36:1:1689:U:C6	2.43	0.53
36:1:1796:G:H5"	36:1:1797:A:OP1	2.09	0.53
36:1:2701:U:OP2	57:N1:22:HIS:ND1	2.35	0.53
36:1:3151:U:H4'	36:1:3294:A:H1'	1.88	0.53
38:4:83:C:H1'	38:4:85:G:N2	2.23	0.53
41:L4:299:ILE:HG22	41:L4:300:ARG:O	2.08	0.53
42:L5:131:LEU:HD22	42:L5:131:LEU:H	1.73	0.53
49:M3:56:PRO:HG3	49:M3:74:GLY:O	2.09	0.53
49:M3:57:VAL:HG13	49:M3:147:ILE:HG23	1.88	0.53
49:M3:162:ASN:OD1	49:M3:164:GLU:HB2	2.07	0.53
1:6:827:C:H2'	1:6:828:U:H6	1.73	0.53
9:s7:102:PRO:HD3	9:s7:112:ARG:HD3	1.89	0.53
28:d6:90:GLU:H	28:d6:90:GLU:CD	2.15	0.53
36:5:136:G:H5'	71:o5:95:PHE:CD2	2.43	0.53
36:5:1313:G:H2'	36:5:1314:C:C6	2.43	0.53
36:5:1861:G:O6	86:5:3554:OHX:N1	2.41	0.53
36:5:2993:G:H2'	36:5:3142:A:N6	2.24	0.53
83:n4:109:LEU:O	83:n4:113:LYS:HB2	2.07	0.53
64:n8:28:HIS:CE1	64:n8:32:ARG:HG2	2.43	0.53
64:n8:47:LYS:HG3	64:n8:47:LYS:O	2.07	0.53
65:n9:23:LYS:HD2	65:n9:24:PRO:HD3	1.89	0.53
1:2:320:U:H3'	1:2:321:C:C5'	2.37	0.53
1:2:1267:G:HO2'	1:2:1448:G:HO2'	1.52	0.53
1:2:1533:C:H5	27:D5:77:ARG:HH22	1.55	0.53
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.09	0.53
8:S6:58:LYS:HG2	8:S6:105:ASP:O	2.07	0.53
16:C4:117:ASP:OD1	16:C4:119:THR:HG23	2.09	0.53
28:D6:75:VAL:O	28:D6:79:ILE:N	2.36	0.53
33:E1:108:VAL:HG13	33:E1:112:GLY:O	2.09	0.53
36:1:1230:G:H2'	36:1:1231:A:H8	1.72	0.53
36:1:2367:A:H2'	36:1:2368:A:C8	2.43	0.53
36:1:2777:G:H5'	36:1:2779:A:OP2	2.08	0.53
36:1:3276:G:H1	69:O3:60:ARG:NH2	2.07	0.53
86:4:206:OHX:N6	73:O7:60:GLY:O	2.42	0.53
51:M5:138:GLN:HA	51:M5:143:ARG:HH11	1.73	0.53
1:6:773:C:OP1	6:s4:21:ASP:HB2	2.08	0.53
2:s0:168:HIS:HA	2:s0:203:PHE:CE2	2.42	0.53
3:s1:226:GLY:HA2	36:5:2536:A:H4'	1.91	0.53
25:d3:134:ALA:HB1	25:d3:140:LYS:HB2	1.90	0.53
36:5:830:A:O2'	36:5:1866:C:H2'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:60:THR:HG23	41:l4:62:ALA:H	1.73	0.53
49:m3:59:ARG:HA	49:m3:69:VAL:HG23	1.91	0.53
50:m4:47:ASP:CG	50:m4:55:ARG:HB2	2.34	0.53
53:m7:59:PRO:HG3	53:m7:76:PHE:CD1	2.44	0.53
56:n0:12:ARG:HB3	56:n0:24:LEU:HD23	1.89	0.53
63:n7:83:THR:HG23	63:n7:85:TYR:N	2.22	0.53
1:2:144:U:O2'	1:2:145:A:H8	1.92	0.53
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.90	0.53
11:S9:38:ASN:HB3	11:S9:40:LYS:H	1.73	0.53
22:D0:20:ILE:HD13	22:D0:22:ILE:HD13	1.90	0.53
34:SR:255:ALA:HB1	34:SR:289:ALA:O	2.08	0.53
36:1:407:A:C2	38:4:17:A:H1'	2.43	0.53
36:1:1409:G:N7	86:1:3601:OHX:N3	2.57	0.53
36:1:2704:A:OP2	86:1:3405:OHX:N4	2.40	0.53
75:O9:23:LEU:HD22	75:O9:24:PRO:HD2	1.89	0.53
1:6:846:G:H2'	1:6:847:A:C8	2.44	0.53
1:6:1488:G:O2'	1:6:1494:C:O2	2.20	0.53
1:6:1558:U:H3	17:c5:122:THR:CG2	2.21	0.53
10:s8:44:HIS:O	10:s8:56:ARG:N	2.41	0.53
11:s9:102:GLU:H	11:s9:102:GLU:CD	2.16	0.53
15:c3:91:LEU:HD12	15:c3:125:LEU:HD12	1.90	0.53
20:c8:92:ILE:HG23	20:c8:93:THR:HG23	1.90	0.53
22:d0:109:GLU:HB3	22:d0:112:VAL:HB	1.91	0.53
23:d1:5:LYS:O	23:d1:7:GLN:N	2.41	0.53
33:e1:106:TYR:HE2	33:e1:116:LYS:HG2	1.73	0.53
36:5:762:U:OP2	86:5:3539:OHX:N6	2.42	0.53
36:5:1094:U:O2'	36:5:1095:U:H3'	2.09	0.53
36:5:1368:U:H2'	36:5:1369:A:H8	1.73	0.53
36:5:3156:U:O2'	36:5:3157:U:O2	2.25	0.53
37:7:64:A:H5'	37:7:65:G:H5"	1.89	0.53
46:l9:1:MET:HE1	56:n0:138:GLN:HG2	1.89	0.53
1:2:17:C:H2'	1:2:18:C:C6	2.44	0.53
1:2:142:G:N2	1:2:173:A:H2	2.00	0.53
1:2:422:G:N7	86:2:1982:OHX:N5	2.57	0.53
1:2:531:C:OP2	86:2:1948:OHX:N4	2.42	0.53
1:2:1332:C:O2'	5:S3:162:GLN:HB3	2.09	0.53
6:S4:18:TRP:HE3	6:S4:20:LEU:HD11	1.73	0.53
14:C2:131:ASP:OD1	14:C2:132:GLU:N	2.42	0.53
30:D8:32:PHE:HE2	30:D8:38:ARG:HB3	1.73	0.53
36:1:1785:U:H2'	36:1:1786:G:C8	2.44	0.53
36:1:1814:A:OP1	86:1:3623:OHX:N2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2655:U:H4'	36:1:2656:A:O4'	2.09	0.53
42:L5:34:LYS:O	42:L5:38:THR:HG23	2.08	0.53
51:M5:112:ASN:HB2	51:M5:138:GLN:HE22	1.74	0.53
72:O6:45:ARG:NH2	72:O6:54:GLU:OE1	2.42	0.53
1:6:1427:A:O2'	1:6:1428:G:OP1	2.25	0.53
4:s2:157:LYS:NZ	24:d2:92:ASN:O	2.41	0.53
6:s4:18:TRP:HH2	6:s4:31:PRO:HD3	1.74	0.53
36:5:1017:C:OP1	36:5:1017:C:H2'	2.08	0.53
36:5:1128:U:H2'	36:5:1129:A:O4'	2.09	0.53
40:l3:81:THR:HG23	40:l3:81:THR:O	2.08	0.53
42:l5:178:ASN:HA	42:l5:183:TRP:CD1	2.44	0.53
54:m8:86:THR:HG22	54:m8:105:ARG:HB2	1.89	0.53
57:n1:12:ARG:HD3	57:n1:13:TYR:CE1	2.44	0.53
67:o1:44:MET:O	67:o1:46:THR:N	2.33	0.53
1:2:42:G:N7	86:2:1918:OHX:N4	2.57	0.53
1:2:169:A:OP1	8:S6:137:ARG:HG3	2.09	0.53
1:2:568:G:O5'	25:D3:90:ASP:HA	2.08	0.53
1:2:1595:U:H5	1:2:1596:C:C5	2.26	0.53
6:S4:246:LEU:HD21	6:S4:254:ARG:CZ	2.38	0.53
7:S5:120:ILE:HD11	27:D5:98:GLN:NE2	2.24	0.53
12:C0:16:PHE:CD2	12:C0:76:LEU:HD23	2.35	0.53
18:C6:126:PRO:O	18:C6:128:LYS:NZ	2.41	0.53
25:D3:110:LYS:O	25:D3:112:LYS:HG2	2.08	0.53
36:1:364:G:O3'	41:L4:84:ARG:HG2	2.08	0.53
36:1:627:U:H2'	36:1:628:A:C8	2.43	0.53
36:1:1933:A:OP2	86:1:3421:OHX:N6	2.42	0.53
36:1:2225:U:H2'	36:1:2226:U:C6	2.44	0.53
36:1:2225:U:H2'	36:1:2226:U:H6	1.72	0.53
36:1:3107:U:P	76:Q0:112:LYS:HE3	2.48	0.53
39:L2:130:SER:HA	39:L2:169:ILE:HG22	1.90	0.53
1:6:400:A:H5"	10:s8:25:ARG:HA	1.89	0.53
1:6:563:U:H4'	32:e0:17:GLN:OE1	2.09	0.53
4:s2:59:HIS:C	23:d1:15:ARG:HH21	2.16	0.53
6:s4:48:LEU:HD21	6:s4:64:ILE:HG21	1.90	0.53
7:s5:33:VAL:HG13	7:s5:37:GLN:NE2	2.23	0.53
24:d2:73:GLY:HA3	24:d2:128:PHE:CZ	2.43	0.53
25:d3:68:ILE:O	25:d3:70:LYS:NZ	2.41	0.53
36:5:2234:G:O6	86:5:3463:OHX:N1	2.42	0.53
36:5:2298:U:O4	36:5:2923:U:H5	1.92	0.53
38:8:134:G:OP1	61:n5:56:ARG:HG2	2.09	0.53
42:l5:85:ARG:HH12	42:l5:254:LYS:H	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:823:G:H2'	1:2:824:G:H8	1.69	0.53
1:2:900:A:OP1	16:C4:43:THR:OG1	2.25	0.53
1:2:992:A:C2	1:2:1012:U:N3	2.72	0.53
1:2:1235:C:H2'	33:E1:138:ARG:HH21	1.74	0.53
6:S4:126:VAL:HG13	6:S4:158:ASP:O	2.09	0.53
21:C9:28:LEU:HD12	21:C9:29:GLU:H	1.73	0.53
29:D7:61:THR:HG23	29:D7:62:ILE:H	1.73	0.53
34:SR:21:THR:OG1	34:SR:68:VAL:O	2.26	0.53
34:SR:131:ILE:HB	34:SR:144:LEU:HB2	1.91	0.53
36:1:2623:G:H2'	36:1:2624:G:C8	2.44	0.53
38:4:9:A:H2'	38:4:10:A:C8	2.43	0.53
40:L3:188:ILE:HA	40:L3:191:LYS:HD2	1.91	0.53
50:M4:57:ALA:HB2	56:N0:97:VAL:HG21	1.91	0.53
56:N0:74:ASN:HD21	56:N0:144:LEU:HD21	1.74	0.53
62:N6:56:VAL:HG11	62:N6:104:LEU:HD13	1.90	0.53
1:6:982:U:OP1	86:6:1931:OHX:N2	2.42	0.53
1:6:1491:U:H5'	1:6:1492:A:OP1	2.09	0.53
1:6:1620:C:H2'	1:6:1621:U:C6	2.44	0.53
6:s4:118:GLU:HA	6:s4:121:TYR:CE1	2.43	0.53
16:c4:50:ALA:C	16:c4:52:ARG:H	2.16	0.53
18:c6:83:GLN:HG3	18:c6:115:THR:HG22	1.91	0.53
27:d5:57:TYR:CE2	27:d5:68:ARG:HD3	2.43	0.53
32:e0:55:ARG:HB3	32:e0:55:ARG:HH11	1.72	0.53
36:5:90:C:C2'	36:5:91:G:H5'	2.39	0.53
36:5:912:G:OP2	39:l2:9:ARG:NH1	2.42	0.53
58:n2:22:PRO:HB2	58:n2:28:PHE:HB2	1.91	0.53
62:n6:37:LYS:H	62:n6:37:LYS:HZ3	1.57	0.53
1:2:138:A:OP2	1:2:1706:C:O2'	2.27	0.53
1:2:1622:G:H2'	1:2:1623:C:C6	2.43	0.53
2:S0:119:ARG:HH21	4:S2:240:LEU:HD22	1.74	0.53
4:S2:121:VAL:HG21	35:SM:116:GLU:HB3	1.91	0.53
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	1.91	0.53
18:C6:5:PRO:HG2	18:C6:24:ALA:HB2	1.90	0.53
36:1:440:A:OP1	36:1:494:G:H1'	2.09	0.53
37:3:64:A:H3'	47:M0:204:GLY:O	2.08	0.53
41:L4:122:THR:HG22	41:L4:235:LEU:HB2	1.91	0.53
45:L8:30:THR:O	45:L8:30:THR:OG1	2.27	0.53
46:L9:1:MET:HE2	46:L9:3:TYR:CE1	2.44	0.53
51:M5:150:TRP:CH2	51:M5:151:ILE:HG12	2.44	0.53
66:O0:13:LYS:HB3	66:O0:100:ILE:HG23	1.90	0.53
1:6:156:A:H2'	1:6:157:A:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:197:A:H2'	1:6:198:A:C8	2.43	0.53
9:s7:61:PHE:HA	9:s7:93:LEU:O	2.08	0.53
20:c8:3:LEU:O	20:c8:5:VAL:HG23	2.09	0.53
21:c9:38:LYS:O	21:c9:39:THR:OG1	2.23	0.53
21:c9:117:SER:HA	21:c9:123:ARG:HD2	1.91	0.53
36:5:269:G:H5'	51:m5:120:TRP:CE3	2.43	0.53
36:5:622:A:H2'	36:5:623:U:O4'	2.09	0.53
36:5:1294:A:H5"	56:n0:85:SER:OG	2.09	0.53
36:5:1644:C:H5'	36:5:1645:U:H5"	1.90	0.53
36:5:2957:G:H5'	36:5:2957:G:H8	1.72	0.53
49:m3:168:ARG:NH2	49:m3:172:LEU:HD21	2.24	0.53
50:m4:23:ILE:HG22	50:m4:29:ALA:HA	1.90	0.53
1:2:197:A:H2'	1:2:198:A:C8	2.43	0.53
4:S2:53:ILE:HG23	4:S2:56:ILE:HD12	1.91	0.53
36:1:1108:U:H2'	36:1:1109:U:C6	2.44	0.53
36:1:1169:A:OP1	86:1:3496:OHX:N1	2.42	0.53
38:4:106:C:O2'	86:4:214:OHX:N4	2.41	0.53
45:L8:33:ASN:O	45:L8:39:ALA:HB3	2.08	0.53
56:N0:137:ARG:HG2	56:N0:139:TYR:CE1	2.44	0.53
57:N1:46:GLY:O	57:N1:49:GLN:NE2	2.41	0.53
60:N4:52:THR:O	60:N4:56:ARG:HG3	2.08	0.53
63:N7:53:VAL:HA	63:N7:57:HIS:HD2	1.74	0.53
64:N8:24:LYS:HD2	64:N8:26:ARG:NH2	2.24	0.53
1:6:482:U:H3	1:6:505:A:H61	1.57	0.53
1:6:1239:U:O4	86:6:1952:OHX:N2	2.41	0.53
2:s0:107:PHE:HB3	2:s0:139:VAL:HG21	1.90	0.53
4:s2:176:SER:HB2	4:s2:195:ASP:HB3	1.90	0.53
6:s4:9:LEU:HD12	6:s4:30:ARG:HA	1.91	0.53
10:s8:61:GLU:HG3	10:s8:62:THR:HG23	1.90	0.53
14:c2:103:LEU:HD22	14:c2:103:LEU:H	1.73	0.53
20:c8:127:HIS:CE1	20:c8:133:VAL:HG21	2.43	0.53
28:d6:60:PRO:O	28:d6:62:TYR:N	2.42	0.53
36:5:252:U:H4'	36:5:253:A:C5'	2.39	0.53
36:5:398:A:O2'	36:5:1416:C:OP1	2.16	0.53
36:5:838:G:O6	79:q3:4:ARG:NH2	2.42	0.53
36:5:860:G:C6	39:l2:181:LYS:HB2	2.44	0.53
36:5:2689:A:H2'	36:5:2689:A:N3	2.24	0.53
36:5:2726:C:O2'	36:5:2727:A:H2'	2.09	0.53
41:l4:301:PRO:C	54:m8:39:ARG:HH12	2.17	0.53
49:m3:6:ASN:O	54:m8:164:ARG:NH1	2.41	0.53
49:m3:14:PHE:HB3	49:m3:18:TRP:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:182:ASN:O	51:m5:183:THR:HG22	2.09	0.53
70:o4:3:GLN:NE2	70:o4:30:LEU:HB2	2.24	0.53
78:q2:47:GLN:OE1	78:q2:54:THR:OG1	2.22	0.53
1:2:788:A:H2'	6:S4:19:LEU:HD22	1.91	0.52
1:2:1111:G:OP2	86:2:2027:OHX:N3	2.42	0.52
1:2:1336:A:H2'	1:2:1337:A:H5"	1.92	0.52
22:D0:36:ASN:O	22:D0:40:ASN:HB2	2.09	0.52
25:D3:69:ARG:NH1	25:D3:116:ASP:OD1	2.42	0.52
28:D6:4:LYS:HE2	28:D6:5:ARG:NH2	2.23	0.52
36:1:3117:C:OP1	86:1:3563:OHX:N3	2.43	0.52
40:L3:116:ARG:HG2	40:L3:175:LYS:HA	1.91	0.52
51:M5:16:SER:O	51:M5:20:ARG:HG2	2.08	0.52
51:M5:186:GLY:O	51:M5:190:THR:HG22	2.08	0.52
53:M7:178:ALA:HA	53:M7:181:ARG:HH21	1.74	0.52
56:N0:155:ARG:NH2	56:N0:171:PHE:O	2.41	0.52
57:N1:17:ARG:O	57:N1:18:ASP:HB2	2.09	0.52
2:s0:26:ALA:HB3	2:s0:149:LEU:HB2	1.91	0.52
6:s4:128:LYS:HG2	6:s4:140:VAL:HG13	1.91	0.52
11:s9:28:LEU:HD12	32:e0:43:ARG:HE	1.73	0.52
18:c6:82:ARG:NH1	18:c6:114:ARG:O	2.41	0.52
23:d1:74:GLN:OE1	23:d1:82:VAL:N	2.43	0.52
25:d3:14:LYS:HA	25:d3:17:VAL:HG12	1.91	0.52
36:5:2555:G:O2'	70:o4:88:ARG:HG3	2.09	0.52
37:7:85:G:O3'	44:l7:218:ARG:NH2	2.42	0.52
41:l4:269:SER:C	41:l4:271:LYS:H	2.17	0.52
73:o7:52:LYS:HA	73:o7:55:ARG:HD2	1.91	0.52
74:o8:16:ARG:NH1	74:o8:70:PRO:HG3	2.24	0.52
1:2:226:A:H2'	1:2:227:U:H5'	1.91	0.52
1:2:1052:U:OP1	1:2:1053:G:H5"	2.08	0.52
1:2:1101:G:O3'	24:D2:76:SER:HB2	2.09	0.52
13:C1:99:ARG:HD3	25:D3:8:GLY:O	2.10	0.52
15:C3:27:LYS:H	15:C3:27:LYS:CE	2.22	0.52
33:E1:109:ASP:HB2	33:E1:113:LYS:HG2	1.91	0.52
34:SR:267:PRO:HG2	34:SR:269:TYR:CE1	2.44	0.52
35:SM:84:LYS:HD2	35:SM:85:SER:N	2.24	0.52
36:1:561:C:H2'	36:1:562:C:H6	1.74	0.52
36:1:1770:G:H5'	36:1:1771:C:OP2	2.09	0.52
36:1:3082:C:H2'	36:1:3083:G:H8	1.74	0.52
57:N1:51:GLY:HA3	57:N1:92:ARG:HG3	1.91	0.52
1:6:25:C:O2'	1:6:26:A:OP2	2.24	0.52
1:6:355:G:OP2	86:6:1922:OHX:N5	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:820:U:O2'	1:6:821:U:H5"	2.09	0.52
4:s2:139:ILE:HD11	4:s2:218:ILE:HB	1.90	0.52
6:s4:94:ALA:O	6:s4:95:THR:HB	2.09	0.52
6:s4:151:ASP:HB3	6:s4:154:ILE:HG13	1.92	0.52
26:d4:20:ARG:HH11	26:d4:22:GLN:NE2	2.06	0.52
34:sR:76:ASP:OD1	34:sR:76:ASP:N	2.38	0.52
36:5:1098:A:O5'	57:n1:129:LYS:HB2	2.10	0.52
36:5:1691:U:H2'	36:5:1692:U:C6	2.44	0.52
36:5:2355:G:H4'	53:m7:139:TYR:CE2	2.45	0.52
36:5:2703:A:OP2	42:l5:23:ARG:NH2	2.38	0.52
36:5:3078:U:H4'	36:5:3079:U:O5'	2.09	0.52
36:5:3358:U:H2'	36:5:3359:A:C8	2.45	0.52
40:l3:8:ALA:HB1	59:n3:45:ARG:NH1	2.24	0.52
65:n9:38:LYS:O	65:n9:39:PHE:HB3	2.09	0.52
68:o2:19:ARG:HD2	68:o2:28:VAL:HG13	1.92	0.52
1:2:992:A:H2'	1:2:993:A:H5'	1.92	0.52
2:S0:74:VAL:HG22	2:S0:96:THR:HG23	1.90	0.52
5:S3:94:ARG:NH2	35:SM:134:ASP:OD1	2.37	0.52
6:S4:140:VAL:HA	6:S4:145:ARG:O	2.09	0.52
20:C8:25:ASN:O	27:D5:40:VAL:HG11	2.09	0.52
22:D0:80:GLU:HG3	31:D9:54:LYS:NZ	2.25	0.52
23:D1:1:MET:HE3	23:D1:10:GLU:O	2.10	0.52
36:1:818:C:N3	36:1:920:A:H5'	2.25	0.52
36:1:1213:G:OP1	56:N0:137:ARG:HD3	2.09	0.52
36:1:2565:U:H2'	36:1:2566:C:H6	1.75	0.52
36:1:3351:U:O2'	36:1:3352:U:OP1	2.26	0.52
51:M5:116:LEU:HB3	51:M5:133:ILE:HG13	1.91	0.52
55:M9:101:VAL:HG13	55:M9:104:ARG:NH1	2.24	0.52
1:6:385:A:H2'	1:6:386:G:C8	2.44	0.52
12:c0:14:TYR:CE1	12:c0:18:GLU:HG3	2.44	0.52
18:c6:95:LYS:O	34:sR:59:ARG:NH2	2.40	0.52
23:d1:55:LEU:HD13	23:d1:65:SER:OG	2.09	0.52
25:d3:30:LYS:HE3	25:d3:34:LEU:HD11	1.91	0.52
25:d3:111:GLY:O	25:d3:121:ARG:HD2	2.09	0.52
40:l3:308:MET:HE2	40:l3:372:THR:C	2.35	0.52
41:l4:362:ASP:OD1	86:l4:401:OHX:N4	2.43	0.52
81:l8:161:GLU:OE2	51:m5:26:ARG:NH2	2.32	0.52
52:m6:171:LYS:O	52:m6:175:THR:HG22	2.09	0.52
1:2:25:C:H1'	1:2:26:A:OP2	2.09	0.52
1:2:248:U:H4'	13:C1:36:LYS:HD3	1.90	0.52
1:2:542:A:H5"	1:2:544:A:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1119:G:O6	86:2:2014:OHX:N1	2.43	0.52
1:2:1498:G:C2'	1:2:1499:G:H5'	2.40	0.52
3:S1:105:PHE:CD2	3:S1:213:ARG:HA	2.45	0.52
8:S6:39:GLU:HB2	8:S6:46:LYS:HG3	1.90	0.52
9:S7:46:ILE:HD11	9:S7:60:ILE:HG12	1.91	0.52
11:S9:77:ILE:HD11	11:S9:93:LEU:HB3	1.92	0.52
18:C6:32:ASN:HD21	18:C6:69:VAL:HG23	1.75	0.52
23:D1:17:CYS:HB2	23:D1:56:SER:HB3	1.90	0.52
24:D2:89:TRP:O	24:D2:93:LEU:HD22	2.10	0.52
36:1:1306:G:C6	52:M6:62:THR:HA	2.45	0.52
36:1:1422:G:H21	43:L6:5:LYS:HE2	1.74	0.52
36:1:1493:G:O6	75:O9:2:ALA:HB2	2.10	0.52
36:1:3106:A:H2'	36:1:3107:U:O4'	2.09	0.52
37:3:7:G:H5"	42:L5:22:ARG:HD3	1.90	0.52
41:L4:327:LEU:HA	44:L7:166:ASN:ND2	2.24	0.52
52:M6:3:VAL:HG13	52:M6:4:GLU:HG3	1.92	0.52
64:N8:74:ASN:OD1	64:N8:113:LEU:HB2	2.10	0.52
68:O2:40:SER:O	68:O2:44:ARG:HG3	2.10	0.52
1:6:78:A:H1'	8:s6:175:ILE:HG12	1.90	0.52
2:s0:30:GLN:HE22	2:s0:32:HIS:HB2	1.74	0.52
4:s2:103:VAL:HG22	4:s2:113:LEU:HD23	1.91	0.52
11:s9:133:HIS:HD2	11:s9:162:SER:HB2	1.75	0.52
34:sR:89:LEU:HB2	34:sR:103:PHE:HB2	1.91	0.52
34:sR:101:GLN:HG2	34:sR:138:GLY:HA3	1.90	0.52
36:5:827:A:H5"	70:o4:14:ASN:O	2.09	0.52
36:5:1833:G:OP1	75:o9:10:LYS:NZ	2.33	0.52
36:5:2600:C:OP1	51:m5:93:LYS:NZ	2.42	0.52
36:5:2896:A:OP1	76:q0:102:ARG:NE	2.36	0.52
41:l4:192:GLY:HA2	41:l4:195:ARG:CG	2.40	0.52
43:l6:109:GLU:CD	43:l6:109:GLU:H	2.17	0.52
46:l9:137:SER:HB2	46:l9:143:GLU:CB	2.38	0.52
1:2:482:U:H2'	1:2:483:A:H8	1.74	0.52
1:2:1701:A:H3'	1:2:1702:A:H5"	1.91	0.52
3:S1:87:ARG:NH2	3:S1:220:GLN:OE1	2.42	0.52
5:S3:31:GLU:HG2	5:S3:107:PHE:HZ	1.74	0.52
6:S4:158:ASP:OD2	6:S4:174:LYS:NZ	2.40	0.52
7:S5:127:GLN:O	7:S5:128:ASN:C	2.53	0.52
24:D2:47:ILE:HG22	24:D2:65:LEU:HB3	1.92	0.52
36:1:297:G:O6	51:M5:12:ARG:NH1	2.39	0.52
36:1:821:U:OP2	86:1:3517:OHX:N3	2.42	0.52
36:1:1455:U:O2'	67:O1:26:LYS:NZ	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2573:G:OP1	63:N7:61:LYS:NZ	2.42	0.52
36:1:2689:A:N3	36:1:2689:A:H2'	2.24	0.52
36:1:2924:U:O4	86:1:3554:OHX:N1	2.42	0.52
42:L5:236:LEU:HA	42:L5:239:ILE:HD12	1.91	0.52
49:M3:3:ILE:HG12	64:N8:34:MET:HE2	1.90	0.52
61:N5:135:ILE:O	61:N5:139:ILE:HG22	2.09	0.52
66:O0:9:SER:OG	66:O0:10:ILE:N	2.29	0.52
66:O0:16:LEU:HB3	66:O0:98:SER:HB2	1.91	0.52
4:s2:88:LYS:HB3	4:s2:95:ARG:HD2	1.91	0.52
7:s5:102:ARG:O	7:s5:106:LYS:NZ	2.41	0.52
33:e1:105:TYR:HB3	33:e1:117:LEU:HD12	1.92	0.52
36:5:817:A:N3	73:o7:11:ARG:HB3	2.24	0.52
36:5:1207:G:N7	86:5:3583:OHX:N2	2.57	0.52
41:l4:36:HIS:O	41:l4:40:THR:HG23	2.09	0.52
42:l5:265:TYR:O	42:l5:269:SER:HB3	2.09	0.52
1:2:795:U:C5	1:2:796:A:C8	2.97	0.52
3:S1:51:SER:HB3	3:S1:56:SER:HB2	1.92	0.52
4:S2:102:VAL:HG11	4:S2:129:ILE:HG12	1.91	0.52
7:S5:98:MET:HB2	7:S5:105:GLY:O	2.09	0.52
7:S5:132:VAL:HG13	7:S5:202:ALA:HB2	1.91	0.52
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	1.90	0.52
9:S7:185:ILE:HG22	9:S7:186:PRO:HD3	1.90	0.52
16:C4:13:VAL:HG13	16:C4:77:THR:H	1.73	0.52
25:D3:92:CYS:HA	25:D3:95:PHE:HD2	1.75	0.52
36:1:533:A:O2'	36:1:535:G:OP2	2.26	0.52
36:1:655:C:H2'	36:1:656:A:H8	1.75	0.52
36:1:1155:C:OP1	44:L7:94:LYS:NZ	2.42	0.52
36:1:1307:G:H1'	36:1:1308:A:C8	2.45	0.52
36:1:1565:G:H1'	36:1:1575:A:C2	2.45	0.52
36:1:2107:A:H2	36:1:3344:A:C8	2.27	0.52
36:1:2404:A:H2'	36:1:2404:A:N3	2.25	0.52
36:1:3155:U:H3'	36:1:3156:U:C4'	2.39	0.52
45:L8:136:LEU:HD11	45:L8:162:LEU:O	2.10	0.52
48:M1:81:GLU:HA	48:M1:84:LEU:HB2	1.92	0.52
49:M3:126:PHE:HZ	49:M3:135:ALA:HB2	1.75	0.52
65:N9:18:ARG:O	86:N9:101:OHX:N5	2.43	0.52
77:Q1:13:LEU:O	77:Q1:17:ARG:HG3	2.09	0.52
79:Q3:84:ARG:O	79:Q3:88:GLU:HG2	2.09	0.52
1:6:116:U:H2'	1:6:117:U:C6	2.44	0.52
1:6:1488:G:H3'	1:6:1515:A:H61	1.75	0.52
4:s2:144:TRP:H	4:s2:152:HIS:CE1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:72:LEU:HD22	12:c0:65:TYR:HB3	1.91	0.52
8:s6:48:TYR:CZ	8:s6:121:LEU:HD22	2.44	0.52
9:s7:66:SER:O	9:s7:69:GLY:N	2.30	0.52
11:s9:129:ILE:HA	11:s9:134:ILE:CG1	2.39	0.52
11:s9:142:ASN:ND2	11:s9:143:ILE:HD12	2.24	0.52
26:d4:2:SER:HA	26:d4:32:ARG:HD3	1.91	0.52
27:d5:47:TYR:CZ	27:d5:51:LEU:HD11	2.45	0.52
27:d5:58:ARG:HB3	27:d5:103:ARG:NH1	2.25	0.52
36:5:73:C:C2	49:m3:59:ARG:HD3	2.45	0.52
36:5:116:A:H5"	36:5:265:A:N3	2.25	0.52
36:5:2213:A:H2'	36:5:2214:A:C8	2.45	0.52
36:5:2856:G:H2'	36:5:2857:C:H6	1.74	0.52
37:7:40:C:H5"	37:7:41:G:OP2	2.09	0.52
52:m6:124:LEU:HD23	56:n0:168:PRO:HG3	1.91	0.52
61:n5:80:ASN:ND2	61:n5:126:LEU:O	2.43	0.52
1:2:1:U:O4	11:S9:54:ARG:HG3	2.10	0.52
1:2:652:G:H1	1:2:682:C:H42	1.58	0.52
1:2:720:G:H1'	1:2:721:U:H5"	1.92	0.52
1:2:826:U:H2'	1:2:827:C:C6	2.44	0.52
1:2:926:A:C2	16:C4:125:SER:HB3	2.43	0.52
1:2:1041:G:OP1	86:2:2015:OHX:N5	2.43	0.52
1:2:1153:G:H5'	28:D6:85:ARG:HD2	1.92	0.52
1:2:1315:U:OP1	1:2:1328:G:N2	2.39	0.52
2:S0:27:ARG:HG2	2:S0:28:ASN:H	1.75	0.52
3:S1:129:THR:OG1	3:S1:131:ASP:O	2.25	0.52
4:S2:158:THR:HG21	4:S2:221:THR:HG23	1.92	0.52
8:S6:63:MET:HE2	8:S6:106:LEU:HD22	1.92	0.52
16:C4:12:GLN:HG3	16:C4:111:ARG:HG3	1.90	0.52
17:C5:39:ALA:HA	17:C5:42:ARG:HH11	1.75	0.52
20:C8:18:LEU:HD21	20:C8:70:VAL:HG13	1.90	0.52
20:C8:110:ARG:HB3	20:C8:110:ARG:HH11	1.75	0.52
24:D2:8:ALA:HA	24:D2:74:VAL:HG11	1.90	0.52
30:D8:36:THR:OG1	30:D8:37:SER:N	2.40	0.52
36:1:1040:A:N3	47:M0:198:LYS:NZ	2.56	0.52
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.91	0.52
41:L4:130:ALA:HA	41:L4:148:ILE:CG2	2.40	0.52
41:L4:148:ILE:HA	41:L4:149:PRO:C	2.35	0.52
47:M0:36:LEU:HD21	47:M0:69:ARG:HH11	1.75	0.52
70:O4:9:ARG:HE	70:O4:34:HIS:CD2	2.27	0.52
1:6:329:G:H2'	1:6:330:G:C8	2.45	0.52
1:6:717:C:O2'	1:6:718:U:OP1	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:27:ARG:HG2	2:s0:44:GLY:O	2.10	0.52
10:s8:29:LEU:HD23	10:s8:29:LEU:O	2.09	0.52
17:c5:87:PRO:HA	17:c5:90:ILE:HG13	1.92	0.52
23:d1:17:CYS:HB2	23:d1:56:SER:HB3	1.92	0.52
26:d4:76:TYR:OH	26:d4:86:GLU:OE2	2.17	0.52
27:d5:42:LEU:HD22	27:d5:47:TYR:HB2	1.92	0.52
27:d5:49:ARG:HD2	27:d5:53:GLU:OE1	2.10	0.52
34:sR:26:SER:OG	34:sR:75:ALA:O	2.27	0.52
80:sM:26:VAL:HG11	48:m1:49:LYS:HE3	1.91	0.52
36:5:83:U:H2'	36:5:84:U:O4'	2.08	0.52
36:5:1301:A:H8	36:5:1301:A:OP1	1.93	0.52
36:5:1385:C:O2	43:l6:2:SER:N	2.42	0.52
36:5:1686:U:O2	36:5:1688:U:H1'	2.09	0.52
36:5:1816:A:C2'	36:5:1817:G:H5"	2.40	0.52
83:n4:112:ASN:HA	83:n4:115:LYS:HG3	1.91	0.52
66:o0:74:ASN:OD1	66:o0:74:ASN:N	2.40	0.52
1:2:304:U:H2'	1:2:305:C:H6	1.74	0.52
1:2:603:U:H2'	1:2:604:A:H8	1.75	0.52
1:2:688:G:N7	86:2:2017:OHX:N5	2.58	0.52
1:2:1767:G:OP2	1:2:1770:U:O2'	2.26	0.52
86:2:2024:OHX:N4	8:S6:155:ASP:OD1	2.42	0.52
3:S1:48:VAL:CG1	3:S1:61:LEU:HD21	2.40	0.52
4:S2:147:ASN:O	23:D1:4:ASP:N	2.43	0.52
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.91	0.52
11:S9:53:ARG:NH2	11:S9:97:LEU:O	2.42	0.52
13:C1:91:LEU:HB3	13:C1:100:TYR:HB3	1.91	0.52
29:D7:33:LEU:HD12	29:D7:46:VAL:HB	1.92	0.52
42:L5:178:ASN:OD1	42:L5:178:ASN:N	2.39	0.52
48:M1:23:VAL:O	48:M1:65:ILE:HG23	2.10	0.52
55:M9:103:ARG:HD2	55:M9:124:TYR:CE1	2.45	0.52
57:N1:68:THR:OG1	57:N1:69:LYS:N	2.41	0.52
1:6:1085:G:O6	86:6:1905:OHX:N3	2.43	0.52
1:6:1699:G:H22	1:6:1701:A:H3'	1.75	0.52
19:c7:7:LYS:O	19:c7:11:ARG:HB2	2.10	0.52
20:c8:24:GLY:O	20:c8:59:GLY:N	2.41	0.52
20:c8:91:ASP:OD1	20:c8:92:ILE:N	2.43	0.52
36:5:290:G:H4'	51:m5:69:GLY:O	2.09	0.52
36:5:2207:A:H2'	36:5:2208:A:O4'	2.10	0.52
36:5:2921:U:H2'	36:5:2923:U:H5"	1.92	0.52
42:l5:83:LEU:HD13	42:l5:88:ILE:HD12	1.91	0.52
42:l5:267:ALA:O	42:l5:271:LYS:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:16:PRO:HG3	47:m0:128:ARG:HH11	1.73	0.52
82:m2:41:UNK:O	82:m2:45:UNK:N	2.43	0.52
49:m3:55:ARG:O	49:m3:115:ARG:NH2	2.39	0.52
67:o1:10:ARG:HH12	67:o1:44:MET:CG	2.22	0.52
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.36	0.52
1:2:558:U:H2'	1:2:558:U:O2	2.10	0.52
1:2:1160:A:H2'	1:2:1161:C:C6	2.45	0.52
1:2:1235:C:H2'	33:E1:138:ARG:NH2	2.24	0.52
1:2:1579:U:H2'	1:2:1580:C:H6	1.75	0.52
1:2:1599:C:O2	86:2:1984:OHX:N1	2.42	0.52
1:2:1785:U:P	16:C4:133:ARG:HH22	2.32	0.52
9:S7:156:SER:O	9:S7:159:VAL:HB	2.08	0.52
21:C9:69:LYS:HB3	21:C9:70:GLN:HE21	1.74	0.52
24:D2:70:ASN:ND2	24:D2:130:TYR:O	2.28	0.52
31:D9:33:LYS:O	31:D9:36:LEU:HD23	2.10	0.52
36:1:155:G:H5"	36:1:156:G:C8	2.45	0.52
36:1:1429:G:C6	41:L4:99:MET:HE2	2.44	0.52
36:1:1895:A:O2'	36:1:3053:G:H4'	2.10	0.52
36:1:3160:U:H2'	36:1:3161:C:C6	2.43	0.52
36:1:3233:C:H2'	36:1:3234:A:C8	2.45	0.52
86:1:3712:OHX:N4	86:O1:201:OHX:N2	2.58	0.52
41:L4:110:ASN:OD1	41:L4:110:ASN:N	2.43	0.52
44:L7:102:VAL:HG13	44:L7:126:LEU:HD22	1.92	0.52
56:N0:154:HIS:CE1	56:N0:170:THR:HG21	2.45	0.52
1:6:66:U:C5'	8:s6:173:PRO:HA	2.40	0.52
1:6:139:C:H4'	1:6:140:A:O5'	2.08	0.52
1:6:831:U:O2'	1:6:832:U:H5'	2.10	0.52
18:c6:97:VAL:HG23	18:c6:98:ASP:N	2.25	0.52
20:c8:143:ARG:C	20:c8:145:ARG:H	2.18	0.52
36:5:1018:G:H2'	36:5:1019:G:O4'	2.09	0.52
36:5:1855:U:H2'	36:5:1856:C:H6	1.75	0.52
40:l3:10:ARG:NH2	40:l3:14:LEU:HD21	2.24	0.52
47:m0:87:LEU:HD23	47:m0:138:VAL:HG22	1.92	0.52
48:m1:109:HIS:HD2	48:m1:114:ILE:HG21	1.73	0.52
54:m8:80:THR:O	54:m8:137:THR:HA	2.10	0.52
55:m9:116:ASP:OD1	55:m9:116:ASP:N	2.27	0.52
64:n8:73:LEU:HB2	64:n8:109:TYR:CD2	2.45	0.52
71:o5:40:SER:O	71:o5:42:PRO:HD3	2.09	0.52
1:2:637:C:O2	9:S7:114:ARG:NH2	2.43	0.52
2:S0:157:ASP:OD2	23:D1:60:ARG:NH2	2.43	0.52
3:S1:30:PHE:CD1	3:S1:96:LEU:HD22	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:111:VAL:O	4:S2:136:VAL:HA	2.10	0.52
4:S2:229:LEU:O	23:D1:16:LYS:NZ	2.43	0.52
36:1:103:G:OP1	49:M3:70:ARG:NH2	2.39	0.52
36:1:819:U:OP1	73:O7:10:LYS:NZ	2.35	0.52
36:1:1565:G:N2	36:1:1574:C:C2	2.78	0.52
36:1:2209:U:OP2	36:1:2209:U:H6	1.93	0.52
36:1:2341:A:OP2	40:L3:247:ARG:NH2	2.41	0.52
36:1:3275:U:H5'	69:O3:68:TRP:HZ2	1.74	0.52
38:4:78:G:H2'	38:4:79:A:C8	2.45	0.52
47:M0:74:LYS:O	47:M0:78:THR:HG23	2.09	0.52
1:6:143:G:OP2	8:s6:139:ASN:ND2	2.42	0.52
1:6:143:G:N7	8:s6:177:ARG:NH2	2.58	0.52
1:6:845:G:O6	86:6:1921:OHX:N4	2.44	0.52
5:s3:116:ARG:NH2	5:s3:150:MET:HE1	2.24	0.52
36:5:36:C:H2'	36:5:37:U:H5'	1.91	0.52
36:5:272:G:OP2	86:5:3575:OHX:N6	2.42	0.52
43:l6:38:THR:HA	43:l6:90:LYS:HG3	1.92	0.52
81:l8:156:ASP:OD2	81:l8:156:ASP:N	2.38	0.52
54:m8:131:ALA:HB1	54:m8:135:GLN:H	1.75	0.52
62:n6:79:ALA:HB1	62:n6:98:ASN:HB3	1.92	0.52
1:2:190:C:O2'	1:2:191:C:H5'	2.10	0.51
1:2:359:A:C2	25:D3:38:PHE:HB3	2.45	0.51
2:S0:83:GLN:HG2	2:S0:99:ALA:HB1	1.92	0.51
4:S2:108:ASN:O	4:S2:141:ARG:NH1	2.43	0.51
13:C1:109:VAL:HG21	13:C1:125:VAL:HG22	1.91	0.51
20:C8:100:THR:HG21	20:C8:108:LYS:HG3	1.92	0.51
25:D3:96:VAL:HG12	25:D3:127:VAL:HG11	1.91	0.51
34:SR:16:HIS:CE1	34:SR:43:ILE:HG12	2.45	0.51
36:1:180:C:H2'	36:1:181:U:C6	2.45	0.51
36:1:674:G:O6	54:M8:56:LYS:NZ	2.43	0.51
36:1:1352:A:H4'	36:1:1353:U:OP1	2.10	0.51
36:1:1618:G:H4'	38:4:129:C:H1'	1.92	0.51
36:1:1659:U:H2'	36:1:1660:C:C6	2.45	0.51
36:1:1724:U:H1'	36:1:1725:C:C6	2.44	0.51
36:1:2662:G:H2'	36:1:2663:G:C8	2.45	0.51
36:1:2871:G:H5"	36:1:2872:A:H5'	1.92	0.51
36:1:3199:G:O6	86:1:3657:OHX:N2	2.42	0.51
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.45	0.51
48:M1:133:ARG:HH12	48:M1:154:THR:HA	1.74	0.51
1:6:112:A:OP1	86:s4:301:OHX:N3	2.42	0.51
1:6:1558:U:H3	17:c5:122:THR:HG22	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:d1:69:LEU:O	23:d1:73:ALA:N	2.43	0.51
34:sR:161:LYS:C	34:sR:163:ASP:N	2.66	0.51
36:5:92:G:O2'	78:q2:55:LYS:HD2	2.10	0.51
36:5:209:A:H4'	36:5:211:A:C8	2.45	0.51
36:5:715:A:H8	64:n8:115:LYS:HG3	1.75	0.51
36:5:1294:A:O2'	36:5:1295:G:H5"	2.10	0.51
36:5:1688:U:H2'	36:5:1689:U:C6	2.45	0.51
44:l7:228:SER:HA	44:l7:232:ARG:HH21	1.75	0.51
68:o2:79:VAL:HG13	68:o2:111:ARG:HG2	1.92	0.51
1:2:136:C:H4'	1:2:137:U:OP1	2.10	0.51
1:2:1458:G:H5"	1:2:1459:C:OP2	2.09	0.51
2:S0:120:LEU:HD12	2:S0:121:VAL:H	1.74	0.51
7:S5:222:LYS:HG3	7:S5:225:ARG:CZ	2.40	0.51
25:D3:126:LYS:HA	25:D3:131:SER:HA	1.91	0.51
32:E0:56:MET:C	32:E0:58:PRO:HD3	2.34	0.51
34:SR:117:LYS:H	34:SR:117:LYS:HD2	1.75	0.51
36:1:439:C:H3'	36:1:440:A:H8	1.76	0.51
36:1:1078:U:O4	86:1:3504:OHX:N2	2.43	0.51
36:1:1298:C:OP2	86:1:3501:OHX:N2	2.43	0.51
36:1:1355:A:H1'	36:1:1356:U:OP2	2.09	0.51
36:1:1549:U:H2'	36:1:1550:C:C6	2.44	0.51
1:6:639:U:OP1	9:s7:117:THR:OG1	2.25	0.51
1:6:823:G:H2'	1:6:824:G:O4'	2.09	0.51
1:6:992:A:OP1	86:6:1908:OHX:N1	2.43	0.51
1:6:1057:U:H3	1:6:1062:A:H61	1.57	0.51
7:s5:33:VAL:HG13	7:s5:37:GLN:HE22	1.76	0.51
8:s6:49:VAL:HB	8:s6:115:LYS:HG2	1.92	0.51
10:s8:147:ALA:C	10:s8:149:SER:H	2.18	0.51
14:c2:42:ALA:HB2	14:c2:124:LYS:HD2	1.91	0.51
17:c5:15:HIS:CG	17:c5:16:SER:H	2.28	0.51
17:c5:80:MET:HE2	17:c5:83:MET:HB2	1.90	0.51
18:c6:52:LEU:HA	18:c6:60:PHE:HE1	1.75	0.51
20:c8:117:LYS:O	20:c8:120:ARG:HG3	2.10	0.51
25:d3:57:LEU:HD13	32:e0:4:VAL:HG13	1.93	0.51
25:d3:86:PHE:HB2	25:d3:120:VAL:HG11	1.92	0.51
34:sR:80:ALA:HB3	34:sR:92:TRP:HB2	1.91	0.51
34:sR:220:ILE:HB	34:sR:234:LEU:HB2	1.91	0.51
36:5:2392:C:O2'	40:l3:266:ARG:NH2	2.32	0.51
36:5:2651:G:H4'	36:5:2652:U:OP2	2.10	0.51
38:8:141:C:OP1	51:m5:109:ARG:NH1	2.43	0.51
42:l5:17:GLN:HE22	57:n1:22:HIS:HB2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:210:ILE:HD13	47:m0:217:PHE:CE2	2.46	0.51
52:m6:84:LEU:HD13	52:m6:102:LEU:HD21	1.91	0.51
53:m7:141:SER:O	53:m7:143:PRO:HD3	2.10	0.51
67:o1:88:PRO:HG2	67:o1:89:LEU:HD13	1.92	0.51
69:o3:16:TYR:OH	69:o3:91:ALA:HB2	2.10	0.51
84:p0:48:ARG:HG2	84:p0:91:GLU:HB2	1.92	0.51
1:2:417:A:H4'	1:2:418:G:O5'	2.09	0.51
2:S0:200:ASP:HB2	19:C7:85:VAL:HB	1.92	0.51
6:S4:246:LEU:HB2	6:S4:251:GLU:HG3	1.92	0.51
8:S6:153:VAL:O	8:S6:156:PHE:N	2.30	0.51
19:C7:50:ILE:O	19:C7:54:THR:HG23	2.10	0.51
36:1:1010:G:N2	47:M0:193:ASP:OD2	2.42	0.51
36:1:1877:U:H5"	36:1:1878:G:O5'	2.11	0.51
36:1:2419:A:H2'	36:1:2420:C:C6	2.44	0.51
36:1:3276:G:H1	69:O3:60:ARG:HH12	1.56	0.51
37:3:49:G:C5	42:L5:58:LYS:HG3	2.45	0.51
56:N0:8:GLN:HG2	56:N0:62:ASN:HB2	1.93	0.51
1:6:861:U:O2'	24:d2:56:HIS:O	2.26	0.51
1:6:938:G:N7	86:6:1961:OHX:N3	2.58	0.51
6:s4:159:THR:HG22	6:s4:173:ILE:HB	1.92	0.51
10:s8:76:THR:HG22	10:s8:105:ASP:HB3	1.92	0.51
11:s9:28:LEU:HB3	32:e0:44:PHE:HZ	1.75	0.51
32:e0:53:LYS:O	32:e0:54:ARG:HB3	2.10	0.51
47:m0:210:ILE:HA	47:m0:217:PHE:CE2	2.45	0.51
49:m3:50:PRO:HB3	49:m3:138:VAL:O	2.09	0.51
55:m9:4:LEU:HD22	55:m9:7:GLN:HG3	1.91	0.51
25:D3:130:VAL:HG11	25:D3:143:PRO:HD3	1.91	0.51
34:SR:13:LEU:O	34:SR:309:VAL:HG13	2.10	0.51
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.10	0.51
36:1:952:A:N3	36:1:1114:U:O2'	2.37	0.51
36:1:1472:U:H5'	55:M9:4:LEU:HB2	1.93	0.51
36:1:1549:U:H2'	36:1:1550:C:H6	1.74	0.51
51:M5:74:PRO:O	51:M5:75:VAL:O	2.29	0.51
1:6:768:C:C2	11:s9:143:ILE:HG12	2.45	0.51
1:6:1619:C:O2	30:d8:22:ARG:NH1	2.43	0.51
2:s0:172:LEU:HD13	2:s0:176:LEU:HD11	1.91	0.51
9:s7:155:ASP:OD2	9:s7:156:SER:N	2.37	0.51
10:s8:26:LYS:O	10:s8:29:LEU:HB3	2.11	0.51
14:c2:50:LYS:HG3	33:e1:129:GLY:HA2	1.92	0.51
20:c8:88:ARG:NH1	20:c8:112:ASP:OD2	2.44	0.51
36:5:1024:G:N2	36:5:1026:A:OP2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1255:C:H2'	36:5:1256:G:H8	1.76	0.51
36:5:3150:A:H5'	40:l3:129:ALA:O	2.09	0.51
41:l4:283:THR:HB	41:l4:285:ASP:H	1.75	0.51
49:m3:176:GLU:HG2	72:o6:11:LEU:HD23	1.92	0.51
56:n0:90:MET:HE1	56:n0:114:HIS:CE1	2.46	0.51
1:2:76:A:H5'	1:2:77:U:OP2	2.11	0.51
1:2:495:C:H3'	1:2:496:G:O4'	2.11	0.51
1:2:1173:C:H3'	20:C8:141:THR:HG21	1.92	0.51
3:S1:39:GLU:HG3	3:S1:40:ASN:N	2.25	0.51
4:S2:98:PHE:CE1	35:SM:116:GLU:HG3	2.46	0.51
9:S7:64:VAL:HG12	9:S7:65:PRO:N	2.25	0.51
26:D4:87:PRO:HB2	26:D4:90:ARG:HG3	1.93	0.51
36:1:976:U:H5'	54:M8:144:ARG:HH12	1.75	0.51
37:3:4:U:H2'	37:3:5:G:C8	2.45	0.51
45:L8:91:PHE:CE1	45:L8:185:ARG:HD2	2.46	0.51
47:M0:66:GLU:CD	47:M0:69:ARG:HH21	2.18	0.51
50:M4:94:TRP:CE2	50:M4:100:ALA:HB2	2.46	0.51
58:N2:49:ASN:O	58:N2:49:ASN:ND2	2.42	0.51
1:6:82:U:H2'	1:6:83:G:O4'	2.11	0.51
1:6:884:A:H2'	1:6:885:G:C8	2.45	0.51
16:c4:66:ASP:N	16:c4:66:ASP:OD1	2.41	0.51
20:c8:72:ILE:HG12	20:c8:79:TYR:CD1	2.46	0.51
36:5:112:U:O2'	36:5:113:C:OP2	2.23	0.51
36:5:192:C:H2'	36:5:193:C:C6	2.45	0.51
36:5:437:G:H8	36:5:437:G:OP2	1.93	0.51
36:5:528:U:H2'	36:5:529:A:H8	1.75	0.51
36:5:552:G:O6	86:5:3498:OHX:N5	2.44	0.51
36:5:1549:U:H2'	36:5:1550:C:C6	2.46	0.51
36:5:1639:C:H5'	70:o4:52:GLN:HG2	1.92	0.51
36:5:1657:C:O2'	36:5:1797:A:OP2	2.24	0.51
36:5:2198:A:OP2	86:5:3685:OHX:N4	2.44	0.51
36:5:2746:A:H2'	36:5:2747:A:O4'	2.10	0.51
36:5:3195:U:O2'	36:5:3196:U:H5'	2.09	0.51
37:7:27:A:H2'	37:7:28:C:C6	2.46	0.51
67:o1:19:ARG:HB3	67:o1:35:GLU:HG2	1.93	0.51
69:o3:54:ARG:HG2	69:o3:64:ILE:HD13	1.92	0.51
1:2:62:A:OP1	86:2:1944:OHX:N4	2.44	0.51
1:2:329:G:H5"	10:S8:98:LYS:HB3	1.93	0.51
1:2:761:G:O6	86:2:1939:OHX:N1	2.44	0.51
1:2:885:G:OP1	3:S1:136:ARG:NH1	2.44	0.51
2:S0:134:LYS:NZ	2:S0:138:TYR:OH	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:54:LYS:HD3	10:S8:175:GLN:OE1	2.10	0.51
11:S9:167:ALA:O	11:S9:168:ARG:HB2	2.10	0.51
28:D6:79:ILE:HA	28:D6:84:VAL:HG21	1.93	0.51
29:D7:75:GLU:CD	29:D7:76:GLY:H	2.18	0.51
36:1:380:U:H2'	36:1:381:U:H6	1.76	0.51
36:1:911:C:H42	39:L2:3:ARG:HD3	1.74	0.51
36:1:1108:U:H2'	36:1:1109:U:H6	1.76	0.51
36:1:2539:C:H5'	36:1:2541:U:O4	2.11	0.51
36:1:2960:C:H2'	36:1:2961:G:C8	2.45	0.51
36:1:3065:G:H2'	36:1:3066:U:O4'	2.10	0.51
36:1:3107:U:OP1	76:Q0:114:LYS:NZ	2.37	0.51
39:L2:32:LEU:HB2	39:L2:163:ARG:NH2	2.25	0.51
39:L2:104:LEU:HD11	39:L2:113:VAL:HG11	1.92	0.51
46:L9:103:ILE:HD11	46:L9:134:ILE:HG22	1.92	0.51
47:M0:33:ILE:HD11	47:M0:69:ARG:CZ	2.41	0.51
53:M7:18:ARG:NH2	53:M7:147:GLU:OE1	2.37	0.51
62:N6:60:ARG:HB2	62:N6:103:LYS:HB3	1.92	0.51
1:6:291:G:H2'	1:6:292:U:C6	2.46	0.51
1:6:683:C:H3'	1:6:684:A:H5"	1.92	0.51
5:s3:132:LYS:HE3	5:s3:192:PRO:HD2	1.93	0.51
5:s3:141:LYS:NZ	5:s3:179:GLN:OE1	2.38	0.51
17:c5:81:ARG:HD2	17:c5:97:TYR:O	2.09	0.51
36:5:700:C:OP1	49:m3:65:TYR:OH	2.22	0.51
36:5:1258:U:O2	36:5:1260:A:H8	1.93	0.51
36:5:3049:A:H5'	36:5:3049:A:H8	1.76	0.51
86:5:3423:OHX:N1	51:m5:91:GLU:OE1	2.43	0.51
38:8:65:A:O3'	71:o5:10:ARG:NH2	2.43	0.51
41:l4:26:PHE:HE2	41:l4:258:LEU:HD23	1.75	0.51
81:l8:134:TYR:CD1	81:l8:190:VAL:HG11	2.45	0.51
1:2:1383:G:OP1	22:D0:89:ARG:NH1	2.36	0.51
1:2:1699:G:N2	1:2:1701:A:H5"	2.25	0.51
13:C1:4:GLU:HG3	13:C1:5:LEU:HG	1.93	0.51
20:C8:102:ALA:O	20:C8:105:VAL:HG12	2.09	0.51
34:SR:33:LEU:HB3	34:SR:45:TRP:HB2	1.92	0.51
36:1:911:C:OP1	39:L2:14:SER:OG	2.23	0.51
36:1:2987:A:O2'	40:L3:259:HIS:HB3	2.11	0.51
86:1:3712:OHX:N2	86:O1:201:OHX:N2	2.59	0.51
37:3:61:G:H2'	37:3:62:U:H6	1.75	0.51
71:O5:100:VAL:HG22	71:O5:104:GLN:HB3	1.92	0.51
2:s0:124:THR:HG22	2:s0:174:TRP:NE1	2.21	0.51
2:s0:140:ASN:ND2	4:s2:62:PRO:HD3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:121:TYR:HA	6:s4:163:ASP:O	2.11	0.51
6:s4:124:GLY:HA2	6:s4:142:HIS:HE1	1.76	0.51
10:s8:76:THR:HG22	10:s8:77:ARG:H	1.74	0.51
14:c2:126:TRP:H	80:sM:168:UNK:CB	2.23	0.51
26:d4:20:ARG:NE	26:d4:22:GLN:HE21	2.08	0.51
29:d7:67:THR:OG1	29:d7:70:LYS:O	2.22	0.51
40:l3:106:TRP:HB2	40:l3:133:TYR:CE2	2.46	0.51
51:m5:136:ASP:OD2	51:m5:138:GLN:HG2	2.11	0.51
58:n2:39:ASP:O	58:n2:47:VAL:HB	2.11	0.51
83:n4:62:GLY:C	83:n4:63:ILE:HG13	2.36	0.51
62:n6:66:GLN:HG2	62:n6:85:VAL:HG22	1.93	0.51
71:o5:59:ASN:O	71:o5:63:ARG:HG2	2.10	0.51
1:2:792:U:C2'	1:2:793:A:H5'	2.40	0.51
5:S3:66:ILE:O	5:S3:70:THR:HG23	2.10	0.51
7:S5:162:VAL:HA	30:D8:45:LYS:HB3	1.93	0.51
36:1:739:G:O6	86:1:3456:OHX:N3	2.44	0.51
36:1:1443:G:N7	86:1:3514:OHX:N3	2.58	0.51
36:1:1942:U:OP2	55:M9:74:ARG:NH1	2.40	0.51
36:1:3216:G:O6	36:1:3259:U:H2'	2.10	0.51
37:3:62:U:O3'	42:L5:285:ARG:NH1	2.44	0.51
40:L3:313:HIS:O	40:L3:333:LYS:HD2	2.11	0.51
41:L4:157:GLU:OE2	41:L4:251:THR:OG1	2.26	0.51
41:L4:269:SER:O	41:L4:269:SER:OG	2.23	0.51
41:L4:362:ASP:C	57:N1:150:THR:HG21	2.36	0.51
66:O0:78:GLY:HA2	66:O0:87:VAL:HG13	1.92	0.51
68:O2:32:TRP:CZ2	68:O2:53:PRO:HD2	2.46	0.51
1:6:1231:U:C5	33:e1:97:LYS:HE2	2.46	0.51
1:6:1364:G:O2'	18:c6:26:LYS:NZ	2.44	0.51
5:s3:170:THR:HG22	5:s3:187:LYS:HA	1.93	0.51
5:s3:179:GLN:OE1	5:s3:180:GLY:N	2.42	0.51
7:s5:119:ASP:O	7:s5:123:VAL:HG23	2.11	0.51
9:s7:41:LEU:HB3	9:s7:70:PHE:CE2	2.45	0.51
9:s7:46:ILE:HG12	9:s7:60:ILE:HG23	1.91	0.51
11:s9:34:PHE:HD1	11:s9:111:THR:HG21	1.76	0.51
14:c2:62:LEU:HB3	14:c2:120:VAL:HG13	1.93	0.51
19:c7:30:THR:HG22	34:sR:127:ARG:HH22	1.76	0.51
28:d6:10:ARG:NH1	28:d6:36:ILE:HG13	2.26	0.51
36:5:2697:A:H2'	36:5:2698:G:C8	2.45	0.51
40:l3:296:THR:HG21	40:l3:357:LYS:O	2.11	0.51
46:l9:90:MET:HB2	46:l9:144:ILE:HG22	1.92	0.51
49:m3:50:PRO:HB2	49:m3:140:SER:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:m8:122:ILE:HG23	54:m8:126:GLN:HB2	1.92	0.51
64:n8:104:THR:HG21	64:n8:112:ILE:HD11	1.92	0.51
1:2:4:C:O2'	11:S9:17:ARG:NH1	2.44	0.51
1:2:5:U:H2'	1:2:6:G:C8	2.46	0.51
1:2:1561:U:H4'	1:2:1599:C:H4'	1.92	0.51
1:2:1625:C:OP1	4:S2:91:ARG:NH2	2.44	0.51
3:S1:61:LEU:HD23	3:S1:62:LYS:H	1.75	0.51
8:S6:47:GLY:C	8:S6:117:GLY:HA2	2.36	0.51
36:1:72:C:C2	36:1:74:G:H1'	2.46	0.51
36:1:1597:C:H2'	36:1:1598:G:H8	1.76	0.51
36:1:1798:A:H2'	36:1:1799:A:C8	2.45	0.51
37:3:27:A:P	42:L5:57:ASN:H	2.34	0.51
40:L3:53:MET:HE2	40:L3:77:THR:HG22	1.92	0.51
54:M8:96:PHE:CD2	54:M8:97:PRO:HD2	2.45	0.51
62:N6:27:ARG:HG2	62:N6:78:PHE:CE1	2.46	0.51
68:O2:3:SER:HB3	68:O2:71:HIS:NE2	2.26	0.51
72:O6:5:THR:OG1	72:O6:7:ILE:HG12	2.11	0.51
7:s5:48:PHE:O	7:s5:51:VAL:HG13	2.11	0.51
19:c7:29:GLN:HG2	34:sR:67:ILE:HD11	1.93	0.51
28:d6:26:CYS:SG	28:d6:28:LYS:HB2	2.51	0.51
36:5:1944:U:H2'	36:5:1945:A:C8	2.45	0.51
36:5:2204:C:H4'	36:5:2205:U:OP1	2.11	0.51
36:5:2968:G:N7	39:l2:215:ASN:HB2	2.25	0.51
36:5:3165:A:H2'	36:5:3166:C:C6	2.46	0.51
86:5:3455:OHX:N4	81:l8:54:GLU:OE2	2.44	0.51
42:l5:60:ILE:HB	42:l5:80:SER:HB3	1.93	0.51
49:m3:16:LYS:O	49:m3:17:HIS:HB2	2.11	0.51
52:m6:42:ASN:OD1	52:m6:125:ARG:HD3	2.11	0.51
1:2:512:A:H5"	11:S9:163:PRO:HG3	1.93	0.51
1:2:1533:C:H4'	1:2:1539:G:C6	2.46	0.51
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.46	0.51
9:S7:43:PHE:HB2	9:S7:61:PHE:O	2.11	0.51
9:S7:173:TYR:CE2	9:S7:177:THR:HG21	2.45	0.51
11:S9:37:LYS:HB2	32:E0:33:ARG:HB2	1.91	0.51
27:D5:70:LYS:CB	27:D5:71:ILE:HG13	2.40	0.51
36:1:96:G:H5'	49:M3:15:ARG:CZ	2.40	0.51
36:1:501:A:H2'	36:1:502:U:C6	2.46	0.51
36:1:3033:A:H2'	36:1:3034:C:H6	1.76	0.51
36:1:3166:C:H2'	36:1:3167:A:O4'	2.11	0.51
36:1:3267:A:H2'	43:L6:69:PHE:CZ	2.46	0.51
39:L2:3:ARG:HB2	39:L2:207:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:215:ASP:OD2	42:L5:217:GLU:N	2.43	0.51
53:M7:33:ALA:HB1	53:M7:117:ILE:HG12	1.93	0.51
1:6:16:G:H2'	1:6:17:C:C6	2.46	0.51
1:6:564:G:N2	1:6:577:G:OP1	2.38	0.51
2:s0:56:LYS:NZ	2:s0:158:VAL:HA	2.26	0.51
6:s4:71:LYS:O	6:s4:90:ILE:HA	2.11	0.51
24:d2:37:PHE:CE2	24:d2:103:ILE:HD11	2.46	0.51
27:d5:43:ASP:OD2	27:d5:46:LYS:NZ	2.43	0.51
36:5:44:U:H5"	36:5:45:A:OP2	2.10	0.51
36:5:595:G:N1	36:5:609:G:H5"	2.26	0.51
36:5:658:G:N2	41:l4:93:MET:HB2	2.25	0.51
36:5:1543:G:OP1	51:m5:35:VAL:HG23	2.11	0.51
36:5:2123:G:O6	86:5:3600:OHX:N1	2.44	0.51
39:l2:89:TYR:HB2	39:l2:100:ASN:ND2	2.25	0.51
40:l3:107:ALA:HA	40:l3:199:PHE:CD2	2.45	0.51
41:l4:170:LYS:HG3	41:l4:175:HIS:HB2	1.91	0.51
43:l6:65:ILE:O	43:l6:76:LEU:HA	2.10	0.51
56:n0:12:ARG:NH1	57:n1:141:VAL:HB	2.25	0.51
62:n6:58:VAL:HG12	62:n6:64:LYS:HA	1.93	0.51
64:n8:126:LYS:HB3	64:n8:148:ILE:HG21	1.93	0.51
66:o0:40:LYS:HD3	66:o0:93:LEU:O	2.10	0.51
69:o3:48:ARG:HG2	69:o3:104:PRO:HD3	1.92	0.51
1:2:1524:A:H2'	1:2:1525:A:C8	2.46	0.50
2:S0:31:VAL:HG23	2:S0:150:ASP:HA	1.93	0.50
18:C6:46:PHE:O	18:C6:50:GLU:HG3	2.11	0.50
20:C8:41:ARG:NE	21:C9:46:PRO:HD3	2.25	0.50
30:D8:42:ARG:HG3	30:D8:56:LEU:HD21	1.93	0.50
36:1:1879:A:H4'	36:1:1880:U:OP2	2.11	0.50
36:1:2541:U:H1'	36:1:2542:U:OP2	2.11	0.50
36:1:3095:U:H2'	36:1:3096:C:H6	1.75	0.50
86:1:3712:OHX:N2	86:O1:201:OHX:N1	2.59	0.50
38:4:79:A:O3'	38:4:80:A:H4'	2.12	0.50
45:L8:133:LYS:HD2	45:L8:138:HIS:CE1	2.45	0.50
46:L9:41:ILE:HD11	46:L9:67:ALA:HB1	1.92	0.50
51:M5:155:VAL:O	51:M5:162:ARG:NH2	2.42	0.50
53:M7:67:ILE:HG13	53:M7:82:ARG:CZ	2.41	0.50
56:N0:86:GLY:O	56:N0:88:HIS:NE2	2.44	0.50
59:N3:86:ARG:HB2	59:N3:92:PHE:CE1	2.46	0.50
61:N5:105:VAL:HG12	61:N5:106:ASP:N	2.26	0.50
72:O6:33:ALA:O	72:O6:34:SER:HB3	2.11	0.50
72:O6:40:VAL:O	72:O6:44:VAL:HG23	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:140:VAL:HA	6:s4:145:ARG:O	2.11	0.50
7:s5:43:PHE:N	7:s5:46:TRP:O	2.37	0.50
28:d6:36:ILE:H	28:d6:36:ILE:HD12	1.75	0.50
36:5:70:A:H5'	64:n8:64:GLN:HE22	1.76	0.50
36:5:283:G:O6	36:5:304:G:H1'	2.11	0.50
36:5:634:C:H5'	69:o3:21:ARG:O	2.11	0.50
41:l4:18:ASN:N	41:l4:18:ASN:OD1	2.44	0.50
55:m9:151:ARG:O	55:m9:155:LEU:HG	2.12	0.50
64:n8:27:LYS:O	64:n8:28:HIS:CD2	2.64	0.50
65:n9:24:PRO:HG2	65:n9:26:THR:HG22	1.93	0.50
72:o6:44:VAL:HA	72:o6:47:ILE:HD12	1.91	0.50
20:C8:91:ASP:CG	20:C8:92:ILE:H	2.10	0.50
36:1:143:G:H4'	38:4:145:U:OP1	2.11	0.50
36:1:655:C:H2'	36:1:656:A:C8	2.46	0.50
36:1:1368:U:H5'	68:O2:43:ARG:NH1	2.27	0.50
36:1:3086:A:H4'	40:L3:366:GLY:HA2	1.93	0.50
36:1:3096:C:H2'	36:1:3097:C:H6	1.76	0.50
38:4:154:C:H2'	38:4:155:A:O4'	2.11	0.50
42:L5:49:TYR:CD1	42:L5:66:SER:HB3	2.47	0.50
55:M9:168:ALA:HB1	55:M9:172:ARG:CZ	2.42	0.50
56:N0:77:VAL:HG11	56:N0:106:LEU:CD1	2.39	0.50
1:6:856:A:N6	9:s7:115:SER:O	2.43	0.50
1:6:1166:A:H2'	1:6:1167:G:O4'	2.11	0.50
17:c5:15:HIS:CG	17:c5:16:SER:N	2.78	0.50
19:c7:66:VAL:HG22	19:c7:69:ILE:HG13	1.92	0.50
29:d7:54:VAL:HG12	29:d7:63:LEU:HD12	1.93	0.50
32:e0:41:THR:HA	32:e0:45:VAL:HB	1.93	0.50
36:5:75:G:OP1	49:m3:58:VAL:HG22	2.11	0.50
36:5:314:U:H2'	36:5:315:C:C6	2.46	0.50
36:5:739:G:O6	86:5:3467:OHX:N6	2.44	0.50
36:5:2947:G:OP2	36:5:2947:G:H4'	2.11	0.50
36:5:3212:C:OP2	50:m4:124:ARG:NH2	2.44	0.50
37:7:112:G:H2'	37:7:113:C:C6	2.46	0.50
37:7:114:U:H2'	37:7:115:G:H8	1.75	0.50
39:l2:65:ASP:HB3	39:l2:68:LYS:O	2.11	0.50
49:m3:174:ARG:HG3	72:o6:9:ILE:HD11	1.93	0.50
58:n2:37:LEU:O	58:n2:41:ILE:HG13	2.11	0.50
59:n3:120:LYS:HB2	59:n3:137:VAL:CG2	2.41	0.50
1:2:800:U:H2'	1:2:801:G:C8	2.47	0.50
1:2:1114:G:O6	86:2:1952:OHX:N5	2.44	0.50
1:2:1473:U:O2'	7:S5:103:ASN:OD1	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1597:A:C8	31:D9:14:TYR:CD2	2.99	0.50
8:S6:4:ASN:HA	8:S6:15:THR:HG22	1.94	0.50
10:S8:70:GLU:OE1	13:C1:24:LYS:NZ	2.30	0.50
13:C1:134:THR:O	13:C1:136:ARG:HD2	2.10	0.50
36:1:3278:C:H2'	36:1:3278:C:O2	2.11	0.50
39:L2:187:HIS:ND1	39:L2:190:ARG:NH2	2.58	0.50
41:L4:261:VAL:HG23	41:L4:271:LYS:HE2	1.94	0.50
47:M0:76:MET:HE1	47:M0:138:VAL:HG11	1.93	0.50
49:M3:115:ARG:NH1	49:M3:147:ILE:HG12	2.26	0.50
1:6:329:G:H2'	1:6:330:G:H8	1.76	0.50
1:6:399:A:H4'	6:s4:3:ARG:HG2	1.93	0.50
1:6:512:A:O2'	11:s9:133:HIS:NE2	2.44	0.50
1:6:696:C:H4'	1:6:697:C:C6	2.47	0.50
6:s4:107:GLY:HA2	6:s4:189:LEU:HG	1.93	0.50
6:s4:120:SER:O	6:s4:163:ASP:O	2.30	0.50
7:s5:100:ASN:O	7:s5:102:ARG:N	2.44	0.50
7:s5:225:ARG:NH2	30:d8:58:GLU:HB2	2.26	0.50
11:s9:41:GLU:HG3	11:s9:44:ARG:HH21	1.76	0.50
11:s9:123:HIS:N	11:s9:123:HIS:CD2	2.80	0.50
13:c1:123:VAL:HG22	13:c1:142:VAL:HG22	1.93	0.50
18:c6:40:GLU:HA	18:c6:42:GLU:H	1.75	0.50
23:d1:35:ASN:OD1	23:d1:52:THR:HB	2.11	0.50
34:sR:128:ASP:OD1	34:sR:130:THR:OG1	2.22	0.50
36:5:73:C:O2	49:m3:59:ARG:HD3	2.10	0.50
36:5:268:A:C4	51:m5:12:ARG:HG3	2.47	0.50
36:5:655:C:H2'	36:5:656:A:C8	2.46	0.50
36:5:985:U:H2'	36:5:986:U:H6	1.76	0.50
36:5:1942:U:H2'	36:5:1943:C:O4'	2.12	0.50
36:5:2413:A:H2'	36:5:2414:G:H8	1.76	0.50
36:5:2555:G:H5'	36:5:2556:C:OP2	2.12	0.50
37:7:91:G:H2'	37:7:92:A:C8	2.47	0.50
67:o1:46:THR:HG23	67:o1:47:ASP:H	1.76	0.50
1:2:38:C:C2'	1:2:39:A:H5'	2.41	0.50
1:2:194:U:O2'	1:2:195:G:O4'	2.28	0.50
1:2:538:A:H8	1:2:543:C:N4	2.10	0.50
1:2:1483:A:H2'	1:2:1484:G:H8	1.77	0.50
3:S1:39:GLU:HB3	3:S1:73:LEU:O	2.12	0.50
5:S3:113:LEU:HD22	5:S3:114:ALA:H	1.76	0.50
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	1.93	0.50
11:S9:93:LEU:O	11:S9:96:VAL:HG22	2.12	0.50
18:C6:32:ASN:HD21	18:C6:69:VAL:H	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D7:34:ASP:OD1	29:D7:34:ASP:N	2.45	0.50
36:1:1176:C:H2'	36:1:1177:G:N2	2.27	0.50
36:1:2443:A:N6	36:1:2504:U:C4	2.79	0.50
36:1:3306:U:H5"	40:L3:21:ARG:NH1	2.27	0.50
39:L2:14:SER:OG	39:L2:15:ILE:N	2.44	0.50
53:M7:129:THR:HG23	53:M7:139:TYR:HB2	1.92	0.50
1:6:687:G:H5"	24:d2:119:LYS:HG3	1.94	0.50
1:6:1561:U:H4'	1:6:1599:C:H4'	1.92	0.50
4:s2:73:LEU:HG	4:s2:76:LEU:HD12	1.92	0.50
26:d4:11:LYS:HB2	26:d4:24:VAL:HG23	1.94	0.50
28:d6:62:TYR:CG	28:d6:63:ALA:N	2.78	0.50
36:5:1861:G:OP2	86:5:3496:OHX:N2	2.44	0.50
36:5:1895:A:O2'	36:5:3053:G:H4'	2.10	0.50
36:5:2988:C:P	52:m6:68:ARG:NH1	2.83	0.50
36:5:3304:U:P	40:l3:332:ARG:HH22	2.35	0.50
41:l4:26:PHE:CD1	41:l4:130:ALA:HB2	2.47	0.50
42:l5:211:LEU:HD13	42:l5:219:PHE:HA	1.93	0.50
47:m0:156:ARG:HD3	47:m0:163:GLN:O	2.11	0.50
1:2:73:U:H4'	1:2:74:U:OP1	2.11	0.50
1:2:929:A:C8	16:C4:123:SER:HA	2.46	0.50
4:S2:38:VAL:HG22	4:S2:39:THR:H	1.75	0.50
4:S2:152:HIS:CG	4:S2:174:ARG:HG3	2.46	0.50
6:S4:88:ASP:OD1	6:S4:122:LYS:NZ	2.44	0.50
7:S5:81:ARG:HH21	30:D8:47:PRO:HB3	1.76	0.50
7:S5:177:ILE:HA	7:S5:180:ARG:NH1	2.26	0.50
9:S7:25:VAL:HA	9:S7:28:GLU:HB2	1.93	0.50
16:C4:18:ARG:HA	16:C4:82:LYS:O	2.12	0.50
16:C4:87:GLY:HA3	16:C4:120:PRO:HG2	1.94	0.50
25:D3:109:ARG:HB3	25:D3:112:LYS:HB2	1.94	0.50
36:1:847:A:H2'	36:1:848:A:C8	2.47	0.50
36:1:1581:C:C2'	36:1:1582:C:H5"	2.36	0.50
36:1:2768:U:H2'	36:1:2769:A:H8	1.75	0.50
36:1:3096:C:H2'	36:1:3097:C:C6	2.47	0.50
36:1:3358:U:H2'	36:1:3359:A:O4'	2.11	0.50
40:L3:214:MET:HE2	40:L3:350:ALA:HB2	1.94	0.50
40:L3:286:GLY:HA3	40:L3:321:PHE:CE2	2.47	0.50
41:L4:104:LYS:HD2	41:L4:106:TRP:CZ2	2.46	0.50
43:L6:56:LYS:HD2	43:L6:98:VAL:HG13	1.92	0.50
44:L7:52:GLN:O	44:L7:56:GLU:HG2	2.11	0.50
49:M3:128:ARG:NH2	71:O5:109:ILE:O	2.41	0.50
55:M9:23:TRP:HB3	55:M9:51:VAL:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:N1:40:VAL:HB	57:N1:96:ILE:HG23	1.92	0.50
1:6:513:U:H2'	1:6:514:G:C8	2.46	0.50
1:6:590:C:H5"	32:e0:43:ARG:HH12	1.76	0.50
1:6:1559:A:C5	20:c8:134:ARG:HD3	2.47	0.50
1:6:1672:G:H2'	1:6:1673:G:C8	2.46	0.50
18:c6:20:ALA:HB2	18:c6:84:ALA:HB1	1.93	0.50
19:c7:31:ASN:ND2	19:c7:31:ASN:H	2.09	0.50
80:sM:57:ASN:O	80:sM:61:ILE:HG22	2.11	0.50
36:5:1472:U:H5'	55:m9:4:LEU:HB2	1.93	0.50
41:l4:329:PRO:O	41:l4:330:TYR:HB3	2.10	0.50
48:m1:80:LEU:HD13	48:m1:167:TYR:OH	2.11	0.50
58:n2:14:THR:HG23	58:n2:66:VAL:HG22	1.91	0.50
2:S0:168:HIS:HB3	2:S0:203:PHE:CZ	2.46	0.50
3:S1:144:ARG:HB3	3:S1:208:GLN:HB3	1.93	0.50
5:S3:29:LEU:HB2	5:S3:34:TYR:HB2	1.93	0.50
6:S4:206:ASP:N	6:S4:206:ASP:OD1	2.45	0.50
9:S7:35:LYS:HG2	9:S7:36:ALA:H	1.75	0.50
14:C2:63:VAL:HG21	14:C2:94:ALA:HB2	1.94	0.50
36:1:25:U:O4	86:1:3406:OHX:N4	2.44	0.50
36:1:2662:G:H2'	36:1:2663:G:H8	1.77	0.50
36:1:3242:G:N2	36:1:3245:A:H5"	2.27	0.50
41:L4:170:LYS:HE2	41:L4:175:HIS:ND1	2.26	0.50
52:M6:18:ARG:O	52:M6:22:VAL:HG13	2.12	0.50
61:N5:48:SER:OG	61:N5:49:LYS:N	2.44	0.50
67:O1:9:THR:HG22	67:O1:109:VAL:HB	1.94	0.50
1:6:66:U:O2'	1:6:67:A:H5"	2.12	0.50
1:6:491:C:N4	1:6:497:G:H21	2.10	0.50
1:6:591:A:H2'	1:6:592:A:C8	2.46	0.50
1:6:1081:A:O2'	1:6:1082:C:O5'	2.24	0.50
1:6:1244:A:N3	1:6:1244:A:H3'	2.26	0.50
1:6:1252:C:H41	33:e1:98:VAL:HG21	1.77	0.50
1:6:1662:G:O6	86:6:1918:OHX:N6	2.45	0.50
6:s4:204:GLY:HA2	86:s4:301:OHX:N6	2.27	0.50
13:c1:17:PRO:HG3	13:c1:63:LEU:HD11	1.93	0.50
18:c6:7:VAL:HG12	18:c6:22:VAL:HB	1.93	0.50
34:sR:159:ASN:O	34:sR:161:LYS:N	2.42	0.50
80:sM:51:ARG:HA	80:sM:51:ARG:NH1	2.27	0.50
36:5:59:G:H2'	38:8:33:A:O2'	2.11	0.50
36:5:743:C:O2	54:m8:141:ARG:HD3	2.12	0.50
36:5:765:C:H4'	36:5:766:U:OP2	2.07	0.50
36:5:1000:C:C2	36:5:1045:C:N4	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1064:A:H4'	36:5:1065:A:O5'	2.10	0.50
36:5:2530:G:H2'	36:5:2531:C:H5'	1.93	0.50
36:5:3276:G:H2'	36:5:3276:G:OP2	2.11	0.50
36:5:3279:A:H2'	36:5:3280:U:H5'	1.93	0.50
41:l4:317:PRO:HB3	41:l4:324:LEU:HA	1.94	0.50
82:m2:16:UNK:O	82:m2:61:UNK:N	2.45	0.50
54:m8:153:PHE:O	54:m8:161:LYS:HG2	2.12	0.50
62:n6:3:LYS:NZ	62:n6:5:SER:O	2.42	0.50
66:o0:26:GLY:O	66:o0:30:THR:HG23	2.12	0.50
71:o5:65:ALA:O	71:o5:69:LEU:HD23	2.12	0.50
1:2:66:U:O4	8:S6:134:GLY:N	2.29	0.50
1:2:67:A:C2	1:2:69:G:H1'	2.46	0.50
1:2:1537:C:O2'	1:2:1540:G:O6	2.30	0.50
1:2:1546:G:OP2	20:C8:134:ARG:NE	2.40	0.50
4:S2:227:PRO:HA	4:S2:230:TRP:CE2	2.46	0.50
18:C6:37:THR:O	18:C6:45:ARG:NH1	2.44	0.50
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.92	0.50
33:E1:87:THR:C	33:E1:89:LYS:H	2.19	0.50
36:1:420:G:O2'	36:1:2384:A:N3	2.39	0.50
36:1:1235:U:H4'	36:1:1236:G:H5'	1.94	0.50
36:1:2102:U:H2'	36:1:2103:U:C6	2.47	0.50
45:L8:67:ILE:CG2	45:L8:237:ILE:HB	2.42	0.50
55:M9:8:LYS:HD2	55:M9:22:VAL:CG2	2.42	0.50
55:M9:160:GLU:HG2	55:M9:164:LEU:HD23	1.94	0.50
60:N4:9:SER:HB2	60:N4:51:TRP:CZ3	2.47	0.50
1:6:919:A:H5'	16:c4:35:GLY:HA3	1.93	0.50
1:6:1389:C:O2'	19:c7:52:GLY:HA3	2.12	0.50
1:6:1695:G:H21	1:6:1706:C:N4	2.09	0.50
2:s0:205:ARG:C	2:s0:207:PRO:HA	2.37	0.50
7:s5:41:LYS:HG2	7:s5:69:PHE:CZ	2.47	0.50
11:s9:49:LEU:HD22	11:s9:53:ARG:HG3	1.92	0.50
19:c7:87:GLU:O	19:c7:88:VAL:HB	2.10	0.50
20:c8:42:TYR:HE2	20:c8:73:MET:HG3	1.76	0.50
28:d6:9:GLY:HA3	28:d6:34:LYS:HE2	1.92	0.50
36:5:2310:U:OP1	86:5:3691:OHX:N2	2.45	0.50
39:l2:114:SER:HB2	39:l2:169:ILE:HD12	1.92	0.50
40:l3:81:THR:HG22	40:l3:321:PHE:CA	2.42	0.50
40:l3:227:GLU:HG3	40:l3:270:ARG:HE	1.77	0.50
81:l8:153:ILE:HD13	81:l8:166:LEU:HB3	1.93	0.50
59:n3:74:MET:HG3	59:n3:102:ILE:HG23	1.92	0.50
59:n3:85:TRP:O	59:n3:92:PHE:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:n5:133:LEU:O	61:n5:137:ASN:ND2	2.45	0.50
1:2:1186:U:OP2	1:2:1456:C:H1'	2.11	0.50
1:2:1266:U:H2'	1:2:1267:G:C8	2.46	0.50
1:2:1474:G:H2'	1:2:1475:A:H8	1.76	0.50
4:S2:44:LEU:HD21	4:S2:247:ALA:HB2	1.94	0.50
6:S4:104:ASP:O	6:S4:190:GLY:HA3	2.11	0.50
24:D2:30:SER:HA	24:D2:34:ILE:HD12	1.92	0.50
31:D9:21:CYS:HB2	31:D9:39:CYS:HB3	1.94	0.50
36:1:1307:G:H5"	52:M6:60:LYS:NZ	2.26	0.50
36:1:1817:G:OP1	86:1:3623:OHX:N1	2.44	0.50
37:3:20:A:H2'	37:3:21:G:C8	2.47	0.50
40:L3:256:HIS:HA	40:L3:257:PRO:C	2.35	0.50
40:L3:305:ILE:HG12	40:L3:321:PHE:CZ	2.47	0.50
1:6:190:C:N4	1:6:196:G:O6	2.45	0.50
1:6:808:U:H2'	1:6:809:A:C8	2.47	0.50
1:6:1347:U:O2	1:6:1516:A:H5'	2.12	0.50
1:6:1398:U:O2'	19:c7:67:ARG:NH2	2.32	0.50
7:s5:143:ARG:HD3	30:d8:55:VAL:HG11	1.93	0.50
8:s6:55:GLY:HA3	8:s6:63:MET:HE3	1.94	0.50
9:s7:64:VAL:O	9:s7:64:VAL:HG12	2.11	0.50
11:s9:107:ARG:HH22	11:s9:153:GLU:HG3	1.76	0.50
17:c5:7:ALA:O	17:c5:9:LYS:N	2.44	0.50
21:c9:141:GLU:C	21:c9:143:ASP:H	2.20	0.50
34:sR:193:ILE:HG22	34:sR:194:GLY:H	1.77	0.50
36:5:1235:U:C4'	36:5:1236:G:H5'	2.41	0.50
36:5:2746:A:H5'	42:l5:178:ASN:HD21	1.76	0.50
36:5:2812:C:O2'	36:5:2813:A:O5'	2.26	0.50
36:5:3316:A:H5"	36:5:3318:G:N2	2.27	0.50
40:l3:113:GLU:HB3	40:l3:176:ALA:HB2	1.94	0.50
41:l4:44:LYS:HA	41:l4:47:ARG:HD2	1.93	0.50
41:l4:361:HIS:CD2	41:l4:362:ASP:H	2.30	0.50
51:m5:8:GLU:HG3	51:m5:50:ARG:NH1	2.27	0.50
51:m5:47:LYS:HD2	51:m5:50:ARG:HE	1.76	0.50
63:n7:54:THR:HG21	63:n7:56:LYS:HZ2	1.77	0.50
1:2:454:U:H5'	6:S4:66:MET:HE3	1.93	0.50
1:2:749:U:H3	1:2:800:U:H3	1.58	0.50
1:2:881:A:H2'	1:2:882:U:O4'	2.12	0.50
1:2:1464:G:O3'	18:C6:141:SER:OG	2.28	0.50
1:2:1649:G:H2'	1:2:1650:U:C6	2.47	0.50
6:S4:9:LEU:HD12	6:S4:30:ARG:HA	1.94	0.50
10:S8:182:TYR:OH	10:S8:188:GLU:OE1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C0:16:PHE:HE1	12:C0:87:VAL:CB	2.25	0.50
13:C1:56:LYS:HD2	13:C1:57:LYS:HG3	1.94	0.50
36:1:2697:A:H2'	36:1:2698:G:C8	2.47	0.50
36:1:2707:C:H2'	36:1:2708:C:H6	1.77	0.50
36:1:3152:U:O2	86:1:3670:OHX:N4	2.45	0.50
41:L4:206:LEU:HD23	41:L4:226:GLU:HB2	1.94	0.50
42:L5:50:ARG:NH1	42:L5:72:ASP:OD2	2.45	0.50
46:L9:89:LYS:HB2	46:L9:183:HIS:HB3	1.94	0.50
54:M8:87:VAL:O	54:M8:107:THR:HG23	2.12	0.50
61:N5:58:ASP:O	61:N5:62:VAL:HG23	2.12	0.50
61:N5:105:VAL:HA	61:N5:130:TYR:CE2	2.47	0.50
61:N5:132:ALA:O	61:N5:136:ALA:N	2.43	0.50
76:Q0:78:ILE:HG12	76:Q0:83:LYS:CD	2.41	0.50
76:Q0:95:VAL:HA	76:Q0:101:ALA:O	2.12	0.50
1:6:489:C:O2'	1:6:490:C:O5'	2.30	0.50
1:6:879:G:O2'	15:c3:105:ASN:HB3	2.12	0.50
1:6:920:U:H5"	3:s1:65:VAL:HG23	1.94	0.50
3:s1:87:ARG:HE	3:s1:101:HIS:CE1	2.29	0.50
7:s5:101:GLY:HA2	7:s5:104:ASN:ND2	2.26	0.50
9:s7:49:ILE:HG13	9:s7:57:ALA:HB3	1.93	0.50
21:c9:86:ARG:HG3	21:c9:90:PRO:O	2.12	0.50
32:e0:53:LYS:HG3	32:e0:55:ARG:HD3	1.94	0.50
34:sR:70:ASP:HB3	34:sR:113:VAL:HG12	1.94	0.50
80:sM:48:ARG:HA	36:5:1019:G:OP1	2.12	0.50
36:5:980:A:N6	36:5:1102:A:C6	2.79	0.50
36:5:1940:G:N2	36:5:3362:A:H8	2.08	0.50
36:5:3255:U:H2'	36:5:3256:G:C8	2.47	0.50
42:l5:23:ARG:HD2	42:l5:23:ARG:O	2.11	0.50
48:m1:54:VAL:HG23	48:m1:57:PHE:HB2	1.94	0.50
68:o2:119:VAL:O	68:o2:122:PRO:HD3	2.12	0.50
70:o4:9:ARG:HG2	70:o4:34:HIS:NE2	2.26	0.50
72:o6:62:ARG:NH1	72:o6:94:ILE:HD11	2.27	0.50
79:q3:49:ARG:HB2	79:q3:55:TRP:CH2	2.47	0.50
1:2:304:U:H2'	1:2:305:C:C6	2.46	0.49
1:2:702:G:O6	1:2:737:A:N6	2.44	0.49
1:2:982:U:OP1	86:2:2004:OHX:N3	2.44	0.49
1:2:1151:A:H2'	1:2:1152:A:C8	2.46	0.49
12:C0:30:ALA:HA	12:C0:38:LYS:HG2	1.94	0.49
18:C6:55:VAL:HG21	18:C6:105:LEU:HG	1.94	0.49
36:1:121:A:C2	45:L8:129:PRO:HB3	2.47	0.49
36:1:191:U:H2'	36:1:192:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:223:U:OP1	36:1:225:C:N4	2.42	0.49
36:1:309:U:OP1	72:O6:84:LYS:NZ	2.32	0.49
36:1:1065:A:H1'	65:N9:28:LYS:HE3	1.94	0.49
36:1:1073:U:O2'	65:N9:49:GLY:HA3	2.12	0.49
36:1:1103:A:H4'	36:1:1103:A:OP2	2.11	0.49
36:1:1148:G:N7	86:1:3689:OHX:N6	2.60	0.49
36:1:2443:A:O2'	36:1:2444:C:OP2	2.28	0.49
36:1:3047:U:O2'	36:1:3048:A:H5'	2.12	0.49
36:1:3060:C:OP2	86:1:3576:OHX:N6	2.45	0.49
49:M3:94:GLY:HA3	71:O5:116:TYR:OH	2.12	0.49
51:M5:58:GLY:HA3	51:M5:142:ILE:HD13	1.94	0.49
53:M7:22:LEU:HB3	53:M7:90:PHE:CE2	2.47	0.49
55:M9:11:ALA:O	55:M9:15:VAL:HG23	2.12	0.49
63:N7:10:VAL:HB	63:N7:83:THR:CG2	2.41	0.49
1:6:1282:U:OP1	86:6:1990:OHX:N4	2.45	0.49
1:6:1392:U:H2'	1:6:1393:C:C6	2.47	0.49
1:6:1584:G:H22	1:6:1611:A:P	2.35	0.49
3:s1:71:ALA:O	3:s1:75:GLY:N	2.45	0.49
3:s1:145:LYS:HG2	3:s1:149:GLN:HB3	1.93	0.49
7:s5:121:ILE:HG13	7:s5:195:ALA:HB1	1.94	0.49
11:s9:30:LEU:HD21	11:s9:102:GLU:HG3	1.94	0.49
18:c6:27:GLY:HA2	18:c6:60:PHE:O	2.11	0.49
36:5:936:A:H5"	36:5:937:G:OP1	2.12	0.49
36:5:1785:U:H2'	36:5:1786:G:C8	2.47	0.49
36:5:2977:G:OP1	86:5:3650:OHX:N4	2.45	0.49
36:5:3089:C:H2'	36:5:3090:U:O4'	2.11	0.49
36:5:3218:A:H4'	36:5:3219:G:O5'	2.12	0.49
41:l4:132:ALA:HB2	41:l4:148:ILE:HG21	1.94	0.49
46:l9:77:ASN:HA	46:l9:80:THR:HG23	1.94	0.49
46:l9:180:TYR:HB2	76:q0:85:LEU:HD13	1.93	0.49
57:n1:124:VAL:HG12	57:n1:125:ALA:H	1.76	0.49
67:o1:80:ASN:HA	67:o1:90:PHE:CE2	2.46	0.49
1:2:443:C:P	26:D4:105:ARG:HB3	2.52	0.49
1:2:1356:U:H2'	1:2:1357:A:H8	1.76	0.49
1:2:1553:G:N2	1:2:1555:A:H3'	2.27	0.49
6:S4:104:ASP:OD1	6:S4:110:ALA:HB2	2.12	0.49
7:S5:64:VAL:HG12	7:S5:65:ARG:HD3	1.94	0.49
10:S8:61:GLU:HG3	10:S8:62:THR:HG23	1.93	0.49
19:C7:27:ASP:OD2	19:C7:30:THR:HG22	2.12	0.49
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	1.93	0.49
36:1:874:U:H5"	36:1:2950:G:OP1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1484:U:O5'	36:1:1484:U:H6	1.95	0.49
36:1:1555:U:H5	36:1:1559:A:H61	1.61	0.49
36:1:1720:U:OP2	55:M9:120:TYR:OH	2.20	0.49
36:1:1722:U:H5"	55:M9:99:LEU:HD12	1.93	0.49
36:1:1952:G:H5'	36:1:1953:G:OP2	2.12	0.49
36:1:2152:A:O2'	36:1:2243:A:O2'	2.27	0.49
36:1:2646:C:H5"	47:M0:119:TRP:CD1	2.47	0.49
36:1:3152:U:O2'	36:1:3153:U:H5'	2.12	0.49
36:1:3159:C:H2'	36:1:3160:U:H6	1.77	0.49
44:L7:110:ARG:NH2	54:M8:3:ILE:HD12	2.28	0.49
46:L9:88:TYR:CZ	46:L9:155:SER:HB3	2.47	0.49
70:O4:8:ARG:HB2	70:O4:34:HIS:NE2	2.27	0.49
77:Q1:2:ARG:HB3	77:Q1:5:TRP:CD1	2.47	0.49
77:Q1:10:THR:HA	77:Q1:13:LEU:HB3	1.94	0.49
1:6:355:G:P	86:6:1922:OHX:N5	2.85	0.49
1:6:973:A:H5'	36:5:848:A:C2	2.47	0.49
1:6:1092:A:O2'	1:6:1093:A:H3'	2.13	0.49
11:s9:130:THR:HA	11:s9:142:ASN:HB2	1.95	0.49
36:5:836:A:O2'	79:q3:9:GLY:O	2.19	0.49
36:5:1208:U:H6	36:5:3115:C:H42	1.59	0.49
38:8:53:A:C2	75:o9:35:ILE:HD11	2.47	0.49
39:l2:68:LYS:HG2	39:l2:69:TYR:H	1.77	0.49
41:l4:158:SER:HA	41:l4:213:ASN:HB2	1.94	0.49
46:l9:10:ILE:HD13	46:l9:75:VAL:HG11	1.93	0.49
47:m0:38:LYS:CG	47:m0:41:ALA:HB2	2.42	0.49
53:m7:64:ASN:O	53:m7:67:ILE:HG12	2.12	0.49
67:o1:13:THR:HG23	67:o1:72:ARG:HH21	1.77	0.49
69:o3:73:ARG:HH21	69:o3:82:ARG:CZ	2.24	0.49
1:2:1:U:C4	11:S9:54:ARG:HG3	2.47	0.49
1:2:252:U:H4'	6:S4:132:GLY:O	2.12	0.49
1:2:397:A:O3'	10:S8:50:GLY:HA2	2.12	0.49
1:2:918:U:H2'	1:2:919:A:C8	2.47	0.49
1:2:1003:A:H1'	1:2:1005:A:N7	2.27	0.49
1:2:1081:A:O2'	1:2:1082:C:O2	2.30	0.49
10:S8:117:TYR:HD1	10:S8:150:ALA:HB2	1.76	0.49
12:C0:50:THR:HG21	12:C0:57:THR:OG1	2.12	0.49
17:C5:111:MET:HG2	20:C8:119:ILE:HG23	1.94	0.49
28:D6:37:LYS:O	28:D6:38:ARG:HD2	2.12	0.49
36:1:239:G:O2'	36:1:240:U:OP1	2.26	0.49
36:1:601:U:H2'	36:1:602:A:O4'	2.12	0.49
36:1:801:A:O2'	86:1:3518:OHX:N2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:817:A:N3	73:O7:11:ARG:HB3	2.27	0.49
36:1:1186:G:N3	56:N0:112:ALA:HB1	2.27	0.49
36:1:2202:C:O2'	39:L2:240:ALA:O	2.21	0.49
36:1:2253:G:C2'	36:1:2254:U:H5'	2.42	0.49
36:1:3057:U:H5'	36:1:3086:A:H61	1.77	0.49
36:1:3094:A:H2'	36:1:3095:U:C6	2.47	0.49
46:L9:106:LYS:H	46:L9:109:ALA:HB2	1.78	0.49
53:M7:41:LEU:O	53:M7:41:LEU:HD22	2.13	0.49
59:N3:80:ARG:NE	59:N3:97:ASP:OD2	2.44	0.49
76:Q0:83:LYS:O	76:Q0:87:SER:OG	2.21	0.49
1:6:1572:G:H2'	1:6:1572:G:N3	2.27	0.49
3:s1:129:THR:OG1	3:s1:131:ASP:O	2.28	0.49
3:s1:149:GLN:HE21	3:s1:151:LYS:CG	2.25	0.49
6:s4:35:PRO:HB3	6:s4:143:ASP:O	2.13	0.49
8:s6:67:VAL:HG21	8:s6:99:GLY:HA2	1.94	0.49
11:s9:88:GLU:O	11:s9:91:LYS:HD2	2.11	0.49
21:c9:42:GLY:HA2	21:c9:84:LYS:HB2	1.95	0.49
22:d0:21:LYS:HA	22:d0:94:GLU:HG2	1.94	0.49
32:e0:30:PRO:O	32:e0:35:TYR:HB2	2.12	0.49
36:5:8:C:H2'	36:5:9:U:O4'	2.12	0.49
36:5:891:G:OP1	86:5:3418:OHX:N6	2.45	0.49
36:5:2964:G:N2	36:5:2967:A:OP2	2.43	0.49
39:l2:112:ILE:HG22	39:l2:135:ILE:HG22	1.94	0.49
40:l3:339:ARG:NH1	40:l3:342:LEU:HD11	2.26	0.49
42:l5:151:GLN:HG3	42:l5:152:ARG:O	2.12	0.49
43:l6:42:LEU:HD23	43:l6:84:VAL:HG22	1.94	0.49
48:m1:95:ASN:O	48:m1:102:PHE:HA	2.12	0.49
51:m5:190:THR:O	51:m5:194:GLN:HG2	2.12	0.49
53:m7:30:ARG:HD3	53:m7:30:ARG:C	2.37	0.49
53:m7:48:LEU:HB3	53:m7:88:VAL:HG13	1.94	0.49
67:o1:23:VAL:O	67:o1:28:ARG:NH1	2.45	0.49
1:2:38:C:H2'	1:2:39:A:H5'	1.94	0.49
1:2:625:C:H2'	1:2:626:U:C6	2.47	0.49
1:2:1669:U:OP2	86:2:1995:OHX:N6	2.46	0.49
4:S2:140:ARG:NH2	4:S2:228:ASN:HD21	2.08	0.49
5:S3:127:MET:HE1	5:S3:133:GLY:HA2	1.93	0.49
8:S6:64:LYS:O	8:S6:67:VAL:HG22	2.11	0.49
9:S7:36:ALA:HA	9:S7:39:ARG:HG2	1.93	0.49
13:C1:3:THR:O	13:C1:4:GLU:HB3	2.11	0.49
17:C5:52:LYS:HG3	17:C5:53:PRO:HD3	1.94	0.49
18:C6:14:LYS:O	18:C6:123:ARG:NH1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:637:C:H1'	36:1:638:C:C6	2.47	0.49
36:1:1351:U:O2	36:1:1351:U:H2'	2.12	0.49
36:1:2208:A:C6	86:1:3581:OHX:N2	2.79	0.49
38:4:24:G:OP2	62:N6:13:ARG:HD3	2.12	0.49
62:N6:45:ILE:HD11	62:N6:122:LYS:HB2	1.93	0.49
1:6:1244:A:O2'	1:6:1245:G:O5'	2.20	0.49
3:s1:40:ASN:OD1	3:s1:40:ASN:N	2.45	0.49
10:s8:48:THR:OG1	10:s8:52:ASN:O	2.25	0.49
36:5:287:G:H5'	51:m5:179:LYS:O	2.12	0.49
36:5:744:A:H4'	54:m8:142:GLY:O	2.11	0.49
36:5:825:U:O4	86:5:3464:OHX:N6	2.45	0.49
36:5:1345:G:O6	86:5:3567:OHX:N2	2.46	0.49
36:5:1573:G:C5	36:5:1574:C:H1'	2.46	0.49
36:5:1764:U:H3'	36:5:1765:U:H5"	1.94	0.49
36:5:1831:U:OP2	61:n5:92:LYS:HE3	2.12	0.49
39:l2:171:GLY:O	79:q3:68:ALA:HB2	2.11	0.49
41:l4:99:MET:CE	41:l4:103:THR:H	2.25	0.49
42:l5:257:GLU:C	42:l5:258:LYS:HD3	2.38	0.49
43:l6:52:VAL:HA	43:l6:67:GLY:HA2	1.94	0.49
44:l7:219:LYS:O	44:l7:228:SER:HB2	2.11	0.49
81:l8:95:ASN:OD1	81:l8:98:ARG:NH1	2.45	0.49
49:m3:64:LYS:HG3	64:n8:69:TRP:CG	2.47	0.49
49:m3:92:THR:HB	71:o5:112:PRO:O	2.12	0.49
50:m4:120:VAL:HG22	52:m6:197:LEU:HD13	1.94	0.49
64:n8:132:LYS:O	64:n8:136:GLU:HG3	2.13	0.49
74:o8:10:GLN:HA	74:o8:13:GLU:CD	2.36	0.49
1:2:154:G:O6	26:D4:128:LYS:NZ	2.35	0.49
1:2:1248:C:H2'	1:2:1249:U:H6	1.77	0.49
1:2:1472:C:OP1	7:S5:102:ARG:NH2	2.39	0.49
36:1:199:A:C4	36:1:201:A:C8	3.00	0.49
36:1:735:A:H2'	36:1:736:A:C8	2.47	0.49
36:1:911:C:N4	39:L2:3:ARG:HD3	2.26	0.49
36:1:955:U:H2'	36:1:956:U:C6	2.47	0.49
36:1:1352:A:H1'	36:1:1353:U:O5'	2.12	0.49
36:1:1682:U:H4'	36:1:1684:U:O4	2.13	0.49
45:L8:75:ILE:C	45:L8:77:GLN:H	2.20	0.49
49:M3:157:ARG:HG2	49:M3:158:ALA:H	1.76	0.49
50:M4:20:VAL:HG22	50:M4:66:THR:OG1	2.12	0.49
50:M4:24:LYS:NZ	50:M4:61:GLY:O	2.32	0.49
72:O6:53:TYR:CD1	72:O6:76:ARG:HG2	2.48	0.49
1:6:138:A:N6	1:6:266:A:H61	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:327:U:O2'	13:c1:10:GLU:HG2	2.13	0.49
1:6:778:G:O6	26:d4:10:ARG:HB3	2.12	0.49
1:6:1258:U:H4'	12:c0:2:LEU:HD22	1.93	0.49
1:6:1489:U:H5'	1:6:1494:C:H1'	1.93	0.49
1:6:1699:G:H2'	1:6:1700:C:H5'	1.94	0.49
4:s2:226:THR:OG1	4:s2:228:ASN:HB2	2.11	0.49
8:s6:120:GLU:HG3	8:s6:125:THR:HG22	1.94	0.49
13:c1:75:VAL:HG12	13:c1:119:VAL:HA	1.93	0.49
17:c5:127:ARG:O	17:c5:130:ARG:HD3	2.13	0.49
19:c7:104:ASN:C	19:c7:106:THR:N	2.70	0.49
36:5:72:C:H5'	49:m3:63:VAL:HG22	1.95	0.49
36:5:1621:A:H2'	36:5:1622:U:C6	2.47	0.49
36:5:2180:G:H2'	36:5:2181:C:C6	2.46	0.49
36:5:3379:C:H4'	40:l3:315:GLY:HA2	1.94	0.49
53:m7:67:ILE:HD12	53:m7:82:ARG:CZ	2.42	0.49
59:n3:128:ARG:CZ	59:n3:128:ARG:HB3	2.42	0.49
68:o2:41:VAL:HG12	68:o2:46:PHE:HB2	1.93	0.49
73:o7:64:MET:O	73:o7:68:LYS:HB3	2.12	0.49
1:2:88:U:H4'	1:2:171:A:O4'	2.13	0.49
1:2:443:C:OP2	26:D4:105:ARG:HB3	2.13	0.49
1:2:491:C:H42	1:2:496:G:H1	1.61	0.49
1:2:1571:C:OP2	86:2:2019:OHX:N1	2.45	0.49
7:S5:73:THR:HG22	7:S5:75:GLY:N	2.27	0.49
10:S8:162:ALA:HA	36:1:3353:G:H5"	1.94	0.49
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	1.94	0.49
15:C3:27:LYS:H	15:C3:27:LYS:HE2	1.78	0.49
15:C3:27:LYS:HD2	15:C3:28:LEU:H	1.78	0.49
18:C6:38:LEU:C	18:C6:40:GLU:H	2.19	0.49
22:D0:48:HIS:NE2	22:D0:50:LEU:HD11	2.28	0.49
24:D2:24:GLN:OE1	29:D7:4:VAL:HA	2.11	0.49
24:D2:30:SER:HB2	24:D2:61:ILE:HG13	1.95	0.49
36:1:1094:U:O2	36:1:1096:U:O2'	2.23	0.49
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.46	0.49
36:1:2444:C:H3'	36:1:2445:A:H5"	1.93	0.49
36:1:3049:A:OP2	86:1:3701:OHX:N1	2.46	0.49
38:4:104:A:C8	38:4:105:A:C8	3.01	0.49
57:N1:18:ASP:O	57:N1:21:LYS:HB2	2.12	0.49
57:N1:36:VAL:HA	57:N1:64:VAL:HG22	1.95	0.49
63:N7:15:ARG:NH1	70:O4:86:LYS:HZ1	2.10	0.49
1:6:1268:G:H1'	1:6:1448:G:H5"	1.94	0.49
1:6:1287:A:H4'	1:6:1288:G:OP1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1508:U:H2'	1:6:1509:C:H6	1.76	0.49
3:s1:119:THR:HB	3:s1:143:THR:HG23	1.95	0.49
3:s1:148:ASN:H	3:s1:148:ASN:ND2	2.10	0.49
7:s5:103:ASN:HA	7:s5:106:LYS:HD2	1.95	0.49
21:c9:14:PHE:CZ	21:c9:132:LEU:HD13	2.47	0.49
36:5:94:G:H2'	36:5:95:A:C8	2.47	0.49
36:5:1232:C:C5	36:5:1261:G:H2'	2.48	0.49
36:5:1498:A:H2'	36:5:1499:C:C6	2.46	0.49
36:5:1654:A:N3	70:o4:59:PRO:HB3	2.27	0.49
39:l2:238:ILE:HG22	39:l2:239:ALA:H	1.78	0.49
41:l4:311:HIS:CE1	41:l4:314:LYS:HA	2.47	0.49
81:l8:94:PHE:HB3	81:l8:189:LEU:HD11	1.94	0.49
47:m0:76:MET:CE	47:m0:148:VAL:HA	2.43	0.49
47:m0:169:LYS:HE2	47:m0:169:LYS:H	1.77	0.49
49:m3:126:PHE:HD2	71:o5:115:LYS:HG2	1.78	0.49
49:m3:144:THR:HG21	71:o5:118:ILE:HG21	1.94	0.49
56:n0:141:LYS:HA	56:n0:144:LEU:HD12	1.93	0.49
64:n8:122:PRO:HB3	64:n8:142:GLY:O	2.12	0.49
1:2:341:A:H2'	1:2:342:C:C6	2.48	0.49
1:2:990:C:O2'	16:C4:127:ARG:HD3	2.12	0.49
1:2:1057:U:O2'	1:2:1058:U:OP2	2.25	0.49
1:2:1466:G:O2'	1:2:1602:C:OP1	2.28	0.49
2:S0:123:VAL:HG11	2:S0:133:ILE:HD11	1.94	0.49
16:C4:25:ASP:OD1	16:C4:26:THR:N	2.45	0.49
34:SR:117:LYS:HG2	34:SR:118:LYS:H	1.77	0.49
36:1:1110:U:H2'	36:1:1111:U:C6	2.48	0.49
36:1:1918:C:OP2	86:1:3550:OHX:N2	2.45	0.49
36:1:1934:G:N7	86:1:3421:OHX:N2	2.61	0.49
36:1:2395:G:C4'	40:L3:258:ALA:HB1	2.42	0.49
40:L3:76:VAL:HG12	40:L3:325:LYS:HA	1.95	0.49
41:L4:98:ARG:HD2	41:L4:99:MET:O	2.12	0.49
42:L5:105:ILE:O	42:L5:109:THR:HG23	2.12	0.49
46:L9:9:GLN:HG2	46:L9:52:LEU:HD21	1.94	0.49
46:L9:67:ALA:HA	46:L9:70:THR:HG23	1.94	0.49
59:N3:13:ILE:HG22	59:N3:85:TRP:CD1	2.46	0.49
59:N3:102:ILE:HG13	59:N3:110:LYS:HB3	1.95	0.49
59:N3:120:LYS:H	59:N3:137:VAL:CG2	2.24	0.49
1:6:121:U:O2'	6:s4:33:ALA:O	2.25	0.49
1:6:613:G:OP2	1:6:1099:U:O2'	2.28	0.49
1:6:1370:U:O4	86:6:1996:OHX:N4	2.46	0.49
1:6:1554:U:H3'	1:6:1555:A:H8	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:184:LEU:HD11	23:d1:39:VAL:HG12	1.95	0.49
7:s5:43:PHE:HB3	7:s5:46:TRP:CD1	2.48	0.49
18:c6:45:ARG:O	18:c6:48:VAL:HG12	2.13	0.49
20:c8:27:LYS:O	20:c8:31:ALA:N	2.36	0.49
25:d3:23:ARG:HD2	25:d3:26:GLU:OE1	2.13	0.49
27:d5:54:VAL:HA	27:d5:57:TYR:CE1	2.48	0.49
36:5:12:A:OP1	86:5:3720:OHX:N1	2.46	0.49
36:5:1100:U:OP2	44:l7:196:LYS:HE3	2.13	0.49
36:5:1655:G:C5'	36:5:1655:G:H8	2.26	0.49
36:5:1659:U:H2'	36:5:1660:C:C6	2.48	0.49
36:5:2213:A:N1	36:5:2429:G:H1'	2.27	0.49
36:5:3309:G:O6	40:l3:21:ARG:NH2	2.34	0.49
37:7:36:C:H4'	42:l5:155:THR:HG23	1.94	0.49
40:l3:233:TRP:CD1	40:l3:265:ALA:HB1	2.47	0.49
50:m4:135:LEU:HD11	52:m6:178:VAL:HG22	1.94	0.49
61:n5:50:ALA:HB2	71:o5:79:ASP:HB2	1.95	0.49
2:S0:172:LEU:HD22	2:S0:176:LEU:HD11	1.94	0.49
7:S5:162:VAL:HB	30:D8:45:LYS:HB3	1.95	0.49
13:C1:5:LEU:C	13:C1:7:VAL:H	2.20	0.49
19:C7:87:GLU:O	19:C7:88:VAL:HG23	2.13	0.49
31:D9:32:ARG:HG3	31:D9:37:ASN:OD1	2.12	0.49
34:SR:163:ASP:C	34:SR:165:ASP:H	2.19	0.49
36:1:1033:U:H2'	36:1:1034:U:C6	2.47	0.49
36:1:1093:A:O2'	36:1:1094:U:O5'	2.31	0.49
36:1:1204:A:N6	36:1:1300:G:O2'	2.42	0.49
36:1:1565:G:H1'	36:1:1575:A:H2	1.78	0.49
36:1:1719:G:OP2	55:M9:121:HIS:ND1	2.36	0.49
36:1:1807:G:H5'	63:N7:135:ARG:NH2	2.27	0.49
36:1:2768:U:H2'	36:1:2769:A:C8	2.46	0.49
36:1:3121:U:H1'	36:1:3122:A:H5"	1.95	0.49
45:L8:78:PHE:C	45:L8:80:TYR:H	2.20	0.49
51:M5:122:ASN:OD1	51:M5:123:GLN:N	2.45	0.49
57:N1:17:ARG:HG3	57:N1:22:HIS:HA	1.93	0.49
57:N1:88:ARG:NH2	65:N9:33:LYS:O	2.45	0.49
1:6:276:C:H1'	1:6:277:U:H5	1.76	0.49
1:6:696:C:H4'	1:6:697:C:H6	1.78	0.49
10:s8:22:ARG:HD2	10:s8:25:ARG:NH1	2.28	0.49
17:c5:68:PRO:O	86:c5:201:OHX:N1	2.45	0.49
26:d4:35:VAL:HB	26:d4:36:SER:O	2.12	0.49
26:d4:45:ALA:CB	26:d4:50:ALA:HB3	2.43	0.49
30:d8:11:LYS:N	30:d8:31:GLU:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:73:C:N3	49:m3:59:ARG:NH1	2.61	0.49
36:5:750:G:H2'	36:5:751:A:H8	1.78	0.49
36:5:956:U:H2'	36:5:957:C:C6	2.48	0.49
36:5:2854:U:P	47:m0:3:ARG:HH22	2.34	0.49
37:7:7:G:OP1	42:l5:33:ARG:HD2	2.12	0.49
81:l8:91:PHE:CZ	81:l8:185:ARG:HD3	2.47	0.49
48:m1:23:VAL:HG12	48:m1:25:GLU:H	1.78	0.49
49:m3:159:VAL:HG13	64:n8:144:VAL:HG13	1.95	0.49
72:o6:70:ARG:HD3	72:o6:84:LYS:HG2	1.95	0.49
1:2:407:A:H2'	1:2:408:C:C6	2.48	0.49
1:2:1061:A:H2'	1:2:1062:A:H5'	1.94	0.49
1:2:1695:G:N2	1:2:1706:C:H41	2.10	0.49
4:S2:161:LYS:HA	4:S2:165:VAL:O	2.13	0.49
5:S3:125:TYR:OH	35:SM:134:ASP:OD2	2.25	0.49
25:D3:24:TRP:CE3	25:D3:30:LYS:HD3	2.47	0.49
34:SR:62:LYS:O	34:SR:92:TRP:HH2	1.96	0.49
36:1:255:A:H2'	36:1:256:G:H8	1.78	0.49
36:1:2192:C:O2'	36:1:2312:A:N1	2.43	0.49
36:1:3082:C:H2'	36:1:3083:G:C8	2.48	0.49
41:L4:264:SER:OG	41:L4:267:VAL:HG13	2.12	0.49
42:L5:52:VAL:HG21	42:L5:65:ILE:HD12	1.94	0.49
48:M1:7:ASN:HA	48:M1:10:ARG:HG2	1.94	0.49
48:M1:63:GLU:O	48:M1:64:LYS:HB2	2.13	0.49
52:M6:113:ASP:OD2	52:M6:113:ASP:N	2.44	0.49
79:Q3:87:ARG:O	79:Q3:91:GLU:HG2	2.12	0.49
1:6:1087:A:H2	1:6:1142:A:H4'	1.78	0.49
1:6:1553:G:O6	17:c5:43:ARG:NH1	2.41	0.49
1:6:1654:G:OP1	77:q1:21:ARG:NH1	2.43	0.49
3:s1:173:THR:O	3:s1:177:GLN:HB2	2.13	0.49
6:s4:10:LYS:NZ	11:s9:2:PRO:HB3	2.27	0.49
8:s6:74:LYS:HE2	8:s6:96:SER:OG	2.13	0.49
13:c1:60:PHE:C	13:c1:62:GLY:H	2.20	0.49
13:c1:77:SER:HB3	13:c1:85:VAL:HB	1.94	0.49
36:5:18:G:O6	86:5:3608:OHX:N6	2.46	0.49
36:5:54:C:O2'	36:5:1547:G:H1'	2.13	0.49
36:5:123:A:C6	36:5:150:A:C5	3.01	0.49
36:5:277:G:H2'	36:5:278:U:H6	1.77	0.49
36:5:2187:G:OP2	86:5:3473:OHX:N4	2.45	0.49
38:8:56:G:H2'	38:8:57:C:C6	2.48	0.49
39:l2:59:ALA:HB3	39:l2:76:PHE:HB2	1.94	0.49
39:l2:70:ARG:NH1	39:l2:72:ARG:HE	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:258:ALA:O	40:l3:259:HIS:CG	2.66	0.49
41:l4:193:LYS:O	41:l4:198:ARG:HG2	2.13	0.49
41:l4:300:ARG:HG2	41:l4:300:ARG:HH11	1.77	0.49
81:l8:213:LYS:O	81:l8:217:THR:HG22	2.13	0.49
47:m0:12:GLN:HB3	47:m0:128:ARG:HH21	1.77	0.49
53:m7:67:ILE:HG22	53:m7:68:GLY:O	2.13	0.49
55:m9:181:ARG:NH1	55:m9:182:ASP:OD1	2.46	0.49
1:2:8:U:O2'	86:2:1943:OHX:N1	2.46	0.49
1:2:74:U:O2'	1:2:75:U:OP2	2.29	0.49
1:2:632:U:OP2	13:C1:102:LYS:NZ	2.42	0.49
1:2:1110:G:N7	86:2:1947:OHX:N3	2.61	0.49
1:2:1410:A:H5"	18:C6:118:ILE:HD13	1.95	0.49
4:S2:82:ASN:HB2	4:S2:207:LEU:HD13	1.94	0.49
24:D2:111:MET:HE3	24:D2:116:ALA:HA	1.93	0.49
36:1:855:U:H2'	36:1:856:G:O4'	2.13	0.49
36:1:1915:A:H2'	36:1:1916:U:C6	2.47	0.49
36:1:2298:U:O4	36:1:2923:U:H5	1.96	0.49
36:1:2611:U:H2'	36:1:2612:U:C6	2.48	0.49
36:1:3317:U:H4'	36:1:3318:G:O5'	2.13	0.49
44:L7:151:ARG:HG3	44:L7:244:ASN:HD21	1.77	0.49
50:M4:72:LEU:HD22	50:M4:73:PRO:HD2	1.95	0.49
70:O4:55:SER:OG	70:O4:69:HIS:HB3	2.13	0.49
78:Q2:24:LYS:HG3	78:Q2:75:VAL:HG12	1.94	0.49
1:6:241:U:H2'	1:6:242:U:C6	2.47	0.49
1:6:539:G:H8	1:6:539:G:OP2	1.96	0.49
1:6:1087:A:C2	1:6:1142:A:H4'	2.48	0.49
1:6:1394:G:OP1	34:sR:282:SER:OG	2.29	0.49
4:s2:94:GLN:HG2	4:s2:95:ARG:H	1.78	0.49
7:s5:149:VAL:HG23	7:s5:156:ARG:O	2.13	0.49
10:s8:61:GLU:OE2	10:s8:77:ARG:NH2	2.46	0.49
11:s9:110:GLN:HE22	11:s9:126:ARG:HE	1.61	0.49
18:c6:117:LEU:HD23	18:c6:117:LEU:H	1.78	0.49
18:c6:127:LYS:HE2	18:c6:132:LYS:O	2.13	0.49
20:c8:127:HIS:NE2	20:c8:133:VAL:HG21	2.28	0.49
36:5:286:U:H2'	36:5:287:G:C8	2.48	0.49
36:5:801:A:O2'	86:5:3529:OHX:N1	2.46	0.49
36:5:842:G:H1	36:5:851:C:H42	1.61	0.49
36:5:1887:A:OP2	86:5:3432:OHX:N5	2.46	0.49
36:5:3255:U:H2'	36:5:3256:G:H8	1.77	0.49
37:7:33:U:H2'	37:7:34:C:O4'	2.12	0.49
40:l3:252:ILE:HD12	40:l3:264:VAL:HG11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:136:GLU:H	42:l5:136:GLU:CD	2.20	0.49
42:l5:178:ASN:HA	42:l5:183:TRP:CG	2.47	0.49
43:l6:135:VAL:HG12	43:l6:139:LYS:NZ	2.27	0.49
47:m0:175:ASN:OD1	47:m0:176:LEU:N	2.43	0.49
74:o8:64:LYS:HG3	74:o8:65:LEU:N	2.28	0.49
76:q0:97:ARG:HG3	76:q0:120:GLN:O	2.13	0.49
1:2:819:G:O6	1:2:853:G:C6	2.66	0.48
1:2:1564:U:H2'	1:2:1565:C:H6	1.77	0.48
15:C3:11:ILE:HG13	15:C3:11:ILE:O	2.13	0.48
34:SR:224:ASN:HB2	34:SR:231:MET:HE3	1.95	0.48
36:1:316:U:O2'	72:O6:30:LYS:HD2	2.12	0.48
36:1:1073:U:H2'	36:1:1074:U:C6	2.47	0.48
36:1:1350:A:OP1	41:L4:287:THR:HG21	2.13	0.48
36:1:1556:C:H2'	36:1:2169:G:N1	2.28	0.48
36:1:2102:U:H2'	36:1:2103:U:H6	1.78	0.48
36:1:2273:G:O6	86:1:3665:OHX:N5	2.45	0.48
36:1:2883:U:H2'	36:1:2884:C:C6	2.48	0.48
36:1:2883:U:H2'	36:1:2884:C:H6	1.78	0.48
36:1:3366:G:H2'	36:1:3367:C:C6	2.47	0.48
39:L2:201:GLY:HA2	39:L2:204:MET:HG3	1.94	0.48
40:L3:169:THR:HG21	40:L3:171:LEU:HD12	1.95	0.48
42:L5:115:LEU:O	42:L5:118:THR:O	2.31	0.48
69:O3:13:HIS:O	69:O3:95:GLY:N	2.34	0.48
74:O8:56:ILE:HG13	74:O8:65:LEU:HD12	1.95	0.48
1:6:438:A:OP1	86:6:1919:OHX:N6	2.46	0.48
1:6:484:C:H42	1:6:503:G:N2	2.09	0.48
1:6:585:A:OP1	32:e0:15:LYS:NZ	2.46	0.48
1:6:922:G:H2'	1:6:923:A:H8	1.75	0.48
1:6:1017:U:H2'	1:6:1018:U:C6	2.48	0.48
2:s0:168:HIS:O	2:s0:172:LEU:HB2	2.13	0.48
5:s3:137:VAL:HG22	5:s3:151:LYS:HG3	1.94	0.48
6:s4:117:GLU:C	6:s4:119:ALA:H	2.21	0.48
15:c3:99:ARG:NH2	15:c3:119:GLU:OE2	2.46	0.48
25:d3:50:LYS:NZ	25:d3:101:GLU:OE1	2.34	0.48
26:d4:20:ARG:HD3	26:d4:76:TYR:CE2	2.48	0.48
36:5:370:U:H4'	36:5:404:G:H5'	1.95	0.48
36:5:1560:G:HO2'	36:5:1561:G:P	2.36	0.48
36:5:1591:G:O2'	36:5:1799:A:N1	2.44	0.48
36:5:1757:A:OP1	58:n2:94:ARG:NH2	2.28	0.48
36:5:1944:U:H2'	36:5:1945:A:H8	1.77	0.48
36:5:3131:U:H2'	36:5:3132:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3347:A:H61	36:5:3358:U:H3	1.61	0.48
40:l3:46:PHE:CE2	40:l3:205:VAL:HG13	2.48	0.48
41:l4:52:VAL:HB	41:l4:99:MET:HE2	1.95	0.48
44:l7:229:PHE:HD1	44:l7:229:PHE:O	1.96	0.48
47:m0:12:GLN:HB3	47:m0:128:ARG:NH2	2.28	0.48
50:m4:59:ASN:O	50:m4:62:GLN:HG2	2.13	0.48
74:o8:22:THR:HG22	74:o8:74:LYS:HB3	1.96	0.48
1:2:192:U:O2	1:2:192:U:H2'	2.13	0.48
1:2:218:A:N6	1:2:844:A:H1'	2.27	0.48
1:2:271:A:H5'	1:2:272:U:OP2	2.14	0.48
1:2:872:G:H2'	1:2:873:U:O4'	2.13	0.48
1:2:976:G:C6	1:2:1023:A:C4	3.02	0.48
1:2:1031:U:H4'	1:2:1032:G:OP2	2.13	0.48
1:2:1323:C:H2'	1:2:1324:G:O4'	2.12	0.48
1:2:1688:U:H2'	1:2:1689:A:C8	2.48	0.48
3:S1:84:ILE:HG22	3:S1:86:LEU:HD22	1.94	0.48
6:S4:36:HIS:NE2	6:S4:88:ASP:OD2	2.46	0.48
11:S9:163:PRO:C	11:S9:165:GLY:H	2.21	0.48
14:C2:73:LYS:NZ	33:E1:108:VAL:HB	2.28	0.48
15:C3:87:ASP:OD2	15:C3:88:LEU:N	2.46	0.48
16:C4:23:PHE:HE2	16:C4:91:THR:HG21	1.78	0.48
36:1:29:C:H4'	36:1:62:A:H4'	1.94	0.48
36:1:494:G:OP1	36:1:494:G:H3'	2.13	0.48
36:1:1157:G:H2'	36:1:1158:A:O4'	2.13	0.48
36:1:1408:G:OP1	68:O2:33:ARG:NH2	2.46	0.48
36:1:2854:U:P	47:M0:3:ARG:HH22	2.36	0.48
36:1:2897:A:OP2	76:Q0:124:LYS:NZ	2.41	0.48
39:L2:48:ILE:HD13	79:Q3:65:ALA:HB2	1.95	0.48
41:L4:5:GLN:HA	41:L4:20:LEU:O	2.12	0.48
46:L9:106:LYS:H	46:L9:109:ALA:CB	2.26	0.48
55:M9:60:LYS:O	55:M9:64:ARG:HG3	2.13	0.48
1:6:196:G:N3	1:6:197:A:H1'	2.28	0.48
1:6:282:C:H2'	1:6:283:U:O4'	2.13	0.48
1:6:332:U:OP2	10:s8:56:ARG:NH2	2.45	0.48
1:6:1007:C:H5"	16:c4:135:ARG:HG3	1.95	0.48
1:6:1232:U:C5	33:e1:97:LYS:HD3	2.49	0.48
8:s6:186:ARG:O	8:s6:190:GLN:HG2	2.13	0.48
12:c0:3:MET:HG3	12:c0:4:PRO:O	2.13	0.48
22:d0:15:GLN:O	22:d0:16:GLN:HB2	2.13	0.48
24:d2:23:ARG:HG3	24:d2:65:LEU:O	2.13	0.48
26:d4:122:GLY:O	26:d4:124:ARG:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:420:G:N2	36:5:2385:G:OP2	2.32	0.48
36:5:1152:G:N2	36:5:1200:A:H61	2.11	0.48
36:5:1559:A:H4'	36:5:1560:G:OP2	2.13	0.48
36:5:1565:G:N2	36:5:1566:A:H1'	2.28	0.48
36:5:2403:G:N2	36:5:2404:A:N7	2.61	0.48
41:l4:269:SER:O	41:l4:271:LYS:N	2.43	0.48
44:l7:96:PRO:O	44:l7:99:PRO:HD2	2.12	0.48
62:n6:127:GLU:CD	62:n6:127:GLU:N	2.70	0.48
70:o4:44:CYS:HG	70:o4:81:CYS:HB3	1.77	0.48
3:S1:131:ASP:HB3	3:S1:180:THR:HG23	1.95	0.48
7:S5:25:LEU:HB2	18:C6:27:GLY:HA3	1.95	0.48
17:C5:17:TYR:O	20:C8:92:ILE:O	2.30	0.48
36:1:329:U:OP2	86:1:3580:OHX:N4	2.46	0.48
36:1:2128:C:OP1	86:1:3495:OHX:N6	2.47	0.48
36:1:2340:U:OP1	40:L3:236:LYS:HE3	2.14	0.48
36:1:3325:G:H5'	67:O1:104:LEU:O	2.13	0.48
37:3:97:A:H2'	37:3:98:C:C6	2.48	0.48
38:4:56:G:H2'	38:4:57:C:O4'	2.14	0.48
38:4:131:A:H5"	61:N5:93:TYR:CE2	2.48	0.48
46:L9:106:LYS:O	46:L9:109:ALA:HB2	2.13	0.48
55:M9:15:VAL:HG11	55:M9:52:LYS:HG3	1.95	0.48
60:N4:97:LYS:CB	60:N4:98:PRO:HD3	2.43	0.48
69:O3:13:HIS:NE2	69:O3:28:SER:OG	2.44	0.48
78:Q2:63:LYS:HD2	78:Q2:87:ARG:NH1	2.28	0.48
1:6:221:A:C2'	1:6:222:A:H5'	2.43	0.48
1:6:1722:A:OP2	86:6:1947:OHX:N1	2.46	0.48
20:c8:11:PHE:CZ	20:c8:59:GLY:HA3	2.48	0.48
21:c9:138:GLN:O	21:c9:141:GLU:HG3	2.14	0.48
36:5:247:C:C2	36:5:248:U:H1'	2.49	0.48
36:5:595:G:C8	36:5:609:G:C6	3.01	0.48
36:5:853:G:N7	79:q3:2:ALA:HB2	2.27	0.48
36:5:2257:C:H2'	36:5:2258:U:H6	1.78	0.48
36:5:2796:G:C8	78:q2:62:ALA:HB1	2.49	0.48
36:5:3152:U:O2	86:5:3710:OHX:N5	2.46	0.48
38:8:91:C:H2'	38:8:92:A:H8	1.78	0.48
40:l3:53:MET:CG	40:l3:77:THR:HG22	2.42	0.48
50:m4:116:GLU:O	50:m4:120:VAL:HG23	2.12	0.48
52:m6:23:VAL:HG11	52:m6:84:LEU:HD11	1.94	0.48
59:n3:39:VAL:O	59:n3:42:SER:OG	2.29	0.48
69:o3:8:TYR:HB3	69:o3:101:PHE:CD1	2.48	0.48
1:2:6:G:OP2	4:S2:205:ARG:HD2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:127:G:N7	8:S6:202:ARG:NH2	2.61	0.48
1:2:730:G:H21	1:2:731:C:H5"	1.78	0.48
1:2:1450:U:H2'	1:2:1451:C:C6	2.49	0.48
1:2:1494:C:H2'	1:2:1495:C:C6	2.47	0.48
3:S1:35:PRO:HD3	3:S1:98:THR:HG23	1.95	0.48
4:S2:143:TYR:CE1	4:S2:151:PRO:HG3	2.48	0.48
10:S8:107:THR:OG1	10:S8:108:PRO:HD3	2.13	0.48
20:C8:28:ILE:HB	20:C8:57:ARG:C	2.39	0.48
32:E0:47:VAL:HG22	32:E0:48:THR:H	1.78	0.48
34:SR:221:MET:HG2	34:SR:233:THR:HG23	1.96	0.48
36:1:271:C:O2	72:O6:82:ARG:NH2	2.41	0.48
36:1:304:G:H5'	36:1:304:G:N3	2.28	0.48
36:1:1941:C:OP2	55:M9:74:ARG:HG2	2.13	0.48
36:1:2108:C:H1'	36:1:3344:A:H8	1.78	0.48
36:1:2339:C:OP2	59:N3:48:ARG:NH1	2.47	0.48
36:1:3178:A:C2	52:M6:115:LYS:HG2	2.49	0.48
36:1:3181:C:H2'	36:1:3182:G:O4'	2.14	0.48
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.96	0.48
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.13	0.48
61:N5:136:ALA:O	61:N5:139:ILE:HG23	2.12	0.48
63:N7:50:PRO:HD3	63:N7:68:ILE:HG12	1.95	0.48
70:O4:55:SER:HG	70:O4:69:HIS:HB3	1.78	0.48
1:6:65:A:H2	1:6:84:A:H62	1.59	0.48
1:6:93:A:O2'	6:s4:4:GLY:HA3	2.13	0.48
1:6:329:G:H5'	10:s8:99:ALA:HB3	1.96	0.48
3:s1:26:ARG:NH1	3:s1:49:ASN:OD1	2.38	0.48
8:s6:20:ASP:O	8:s6:24:ILE:HG13	2.13	0.48
12:c0:77:ARG:NE	12:c0:83:PRO:O	2.46	0.48
20:c8:129:TRP:O	80:sM:68:ARG:HB2	2.14	0.48
23:d1:3:ASN:HD21	23:d1:7:GLN:HB3	1.77	0.48
36:5:1245:A:H5'	36:5:1247:U:OP2	2.14	0.48
36:5:1487:G:H1	36:5:1855:U:H3	1.61	0.48
36:5:2436:U:O5'	36:5:2436:U:H6	1.97	0.48
36:5:2568:C:N4	36:5:2574:G:O6	2.47	0.48
36:5:3269:U:H4'	36:5:3270:U:O5'	2.12	0.48
44:l7:136:TYR:CZ	44:l7:231:ASN:HB2	2.49	0.48
47:m0:99:ILE:HG12	47:m0:123:HIS:CB	2.43	0.48
1:2:68:A:H5'	8:S6:160:ARG:HH12	1.78	0.48
1:2:327:U:H2'	1:2:328:A:C8	2.49	0.48
1:2:333:A:H2'	1:2:334:G:C8	2.48	0.48
1:2:1331:A:OP1	19:C7:45:ARG:NH2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1541:G:O2'	1:2:1570:A:N6	2.43	0.48
1:2:1795:U:O2	28:D6:10:ARG:HD2	2.14	0.48
7:S5:29:ILE:HG21	18:C6:57:LEU:HD11	1.95	0.48
8:S6:87:ARG:HA	8:S6:87:ARG:HD3	1.70	0.48
10:S8:46:VAL:N	10:S8:54:LYS:O	2.44	0.48
12:C0:33:GLU:CD	12:C0:33:GLU:H	2.21	0.48
14:C2:62:LEU:HB3	14:C2:75:VAL:HG11	1.95	0.48
18:C6:53:LEU:H	18:C6:53:LEU:HG	1.43	0.48
23:D1:37:ALA:HA	23:D1:50:TYR:HA	1.96	0.48
36:1:600:G:N2	36:1:603:A:OP2	2.47	0.48
36:1:735:A:H2'	36:1:736:A:H8	1.77	0.48
36:1:1114:U:H5"	64:N8:22:ILE:HD12	1.94	0.48
36:1:3118:C:H4'	76:Q0:106:ARG:NH2	2.23	0.48
38:4:79:A:H5"	71:O5:43:LYS:NZ	2.28	0.48
40:L3:303:LYS:HD2	40:L3:361:THR:HG21	1.94	0.48
41:L4:3:ARG:HH11	41:L4:22:LEU:HB3	1.77	0.48
43:L6:88:SER:O	43:L6:90:LYS:HG3	2.12	0.48
49:M3:75:PHE:H	49:M3:97:VAL:HA	1.79	0.48
51:M5:41:ARG:CZ	51:M5:41:ARG:HB3	2.43	0.48
53:M7:88:VAL:O	53:M7:92:GLN:HG2	2.13	0.48
58:N2:18:ASP:HA	58:N2:62:VAL:HG22	1.94	0.48
59:N3:79:VAL:HG23	59:N3:80:ARG:HG3	1.94	0.48
68:O2:32:TRP:CE2	68:O2:53:PRO:HD2	2.48	0.48
1:6:975:C:H5"	15:c3:109:LYS:HD2	1.95	0.48
1:6:1504:G:OP1	21:c9:97:SER:OG	2.27	0.48
1:6:1584:G:H5"	18:c6:122:ARG:HB2	1.95	0.48
2:s0:172:LEU:HD22	2:s0:176:LEU:HG	1.95	0.48
2:s0:183:ARG:HD2	2:s0:188:LEU:HD12	1.95	0.48
5:s3:29:LEU:HD21	5:s3:69:LEU:HD21	1.96	0.48
7:s5:190:ILE:O	7:s5:194:LEU:HB2	2.14	0.48
9:s7:16:LEU:HD11	9:s7:48:GLU:HG3	1.94	0.48
36:5:277:G:H2'	36:5:278:U:C6	2.48	0.48
36:5:1073:U:H1'	65:n9:50:THR:HB	1.94	0.48
36:5:1615:C:H2'	36:5:1616:U:C6	2.48	0.48
36:5:1841:A:H1'	75:o9:45:ARG:NH2	2.29	0.48
36:5:2158:A:H5'	36:5:2160:G:O4'	2.13	0.48
36:5:2602:G:N7	86:5:3406:OHX:N3	2.61	0.48
38:8:131:A:H5"	61:n5:93:TYR:CE2	2.48	0.48
43:l6:31:ARG:HH11	69:o3:107:ILE:HG22	1.77	0.48
44:l7:118:LYS:HG3	44:l7:191:VAL:HG11	1.96	0.48
54:m8:158:HIS:H	54:m8:186:VAL:CG1	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:m9:12:ALA:HB1	55:m9:17:VAL:O	2.13	0.48
69:o3:14:LEU:HD11	69:o3:31:LYS:HB2	1.95	0.48
1:2:1280:C:H2'	1:2:1281:G:C8	2.47	0.48
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.26	0.48
3:S1:129:THR:HB	3:S1:180:THR:HA	1.95	0.48
3:S1:130:SER:OG	3:S1:131:ASP:N	2.46	0.48
3:S1:141:ALA:HB1	3:S1:207:LEU:HD23	1.95	0.48
8:S6:135:PRO:HB2	8:S6:141:ILE:HG12	1.95	0.48
20:C8:15:LEU:HD23	20:C8:15:LEU:H	1.77	0.48
28:D6:79:ILE:HA	28:D6:84:VAL:HG11	1.95	0.48
30:D8:26:THR:HB	30:D8:44:VAL:HG22	1.95	0.48
36:1:114:A:N1	36:1:266:A:O2'	2.40	0.48
36:1:281:G:C6	36:1:282:G:C6	3.02	0.48
36:1:743:C:O2	54:M8:141:ARG:HD3	2.14	0.48
36:1:2419:A:H2'	36:1:2420:C:H6	1.78	0.48
37:3:22:A:H1'	42:L5:272:TYR:CZ	2.48	0.48
41:L4:141:ARG:CZ	41:L4:180:LYS:HD3	2.43	0.48
41:L4:327:LEU:HA	44:L7:166:ASN:HD21	1.78	0.48
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.14	0.48
44:L7:92:ILE:HD11	54:M8:4:ASP:HB2	1.95	0.48
49:M3:91:ARG:NH1	49:M3:97:VAL:HB	2.28	0.48
62:N6:114:ASP:N	62:N6:114:ASP:OD1	2.46	0.48
65:N9:32:LEU:O	65:N9:35:VAL:HB	2.14	0.48
72:O6:34:SER:HG	72:O6:37:THR:HG23	1.79	0.48
72:O6:89:GLU:O	72:O6:93:ILE:HG12	2.13	0.48
73:O7:39:TYR:CD2	73:O7:40:PRO:HA	2.48	0.48
1:6:46:A:N1	1:6:432:G:O2'	2.36	0.48
1:6:647:G:H22	1:6:687:G:H1	1.61	0.48
1:6:919:A:H2'	1:6:920:U:C6	2.48	0.48
1:6:1695:G:H21	1:6:1706:C:H41	1.61	0.48
2:s0:120:LEU:HD12	2:s0:121:VAL:H	1.78	0.48
14:c2:58:LEU:HD23	14:c2:58:LEU:H	1.78	0.48
22:d0:64:LYS:O	31:d9:33:LYS:NZ	2.33	0.48
25:d3:132:LEU:HA	25:d3:132:LEU:HD23	1.50	0.48
36:5:655:C:H2'	36:5:656:A:H8	1.79	0.48
36:5:1466:G:O6	86:5:3414:OHX:N5	2.46	0.48
36:5:2662:G:N7	86:5:3401:OHX:N3	2.61	0.48
36:5:3022:G:O2'	36:5:3031:G:O6	2.30	0.48
36:5:3227:A:H2'	36:5:3228:C:H5'	1.96	0.48
86:5:3479:OHX:N6	86:5:3691:OHX:N5	2.62	0.48
39:l2:174:ARG:HA	79:q3:69:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:259:ASP:HB3	41:l4:267:VAL:HG11	1.95	0.48
48:m1:52:TYR:HA	48:m1:61:ARG:HG3	1.96	0.48
51:m5:119:TYR:OH	51:m5:131:GLU:OE1	2.25	0.48
63:n7:54:THR:HG22	63:n7:57:HIS:ND1	2.29	0.48
71:o5:67:ARG:HG3	71:o5:80:LEU:HD22	1.96	0.48
1:2:358:U:O4	86:2:1938:OHX:N5	2.47	0.48
1:2:1530:C:P	27:D5:95:HIS:HB2	2.54	0.48
2:S0:9:LEU:HB2	2:S0:54:TRP:CD1	2.48	0.48
3:S1:62:LYS:HD2	3:S1:91:VAL:HB	1.96	0.48
3:S1:128:LYS:HE3	3:S1:132:ASP:OD1	2.14	0.48
4:S2:218:ILE:O	4:S2:221:THR:OG1	2.31	0.48
6:S4:233:LYS:H	6:S4:233:LYS:HD2	1.79	0.48
7:S5:64:VAL:O	7:S5:65:ARG:HB2	2.14	0.48
7:S5:99:MET:HA	7:S5:104:ASN:ND2	2.28	0.48
8:S6:78:THR:HG22	8:S6:79:LYS:H	1.79	0.48
12:C0:69:THR:O	12:C0:73:VAL:HG23	2.14	0.48
14:C2:74:LEU:HD11	33:E1:106:TYR:CD1	2.49	0.48
20:C8:2:SER:OG	20:C8:3:LEU:N	2.41	0.48
36:1:1485:G:N2	70:O4:4:ARG:HD2	2.28	0.48
36:1:1573:G:C2	36:1:1574:C:H1'	2.47	0.48
36:1:2988:C:O2	40:L3:266:ARG:NH1	2.46	0.48
42:L5:58:LYS:HD3	42:L5:58:LYS:N	2.28	0.48
43:L6:50:LYS:HE2	43:L6:72:ASN:HB2	1.95	0.48
43:L6:52:VAL:HG23	43:L6:67:GLY:HA2	1.94	0.48
48:M1:148:VAL:O	48:M1:153:LYS:HE3	2.14	0.48
51:M5:112:ASN:HB2	51:M5:138:GLN:NE2	2.28	0.48
63:N7:41:ALA:HB2	63:N7:77:TYR:HE1	1.79	0.48
1:6:1783:C:OP2	77:q1:1:MET:HB2	2.13	0.48
11:s9:169:PRO:HB2	11:s9:173:ALA:HB3	1.95	0.48
21:c9:35:ASP:OD2	21:c9:36:ILE:HG23	2.13	0.48
34:sR:81:LEU:HD11	34:sR:122:ILE:HD13	1.95	0.48
36:5:701:G:H2'	36:5:702:C:C6	2.49	0.48
42:l5:181:PRO:HD2	42:l5:195:LEU:HD13	1.94	0.48
42:l5:280:GLU:N	42:l5:280:GLU:OE2	2.47	0.48
46:l9:188:THR:HG23	46:l9:189:GLU:HG2	1.95	0.48
49:m3:6:ASN:O	49:m3:7:LEU:HD23	2.14	0.48
57:n1:105:PHE:O	57:n1:109:VAL:HG23	2.14	0.48
1:2:960:U:H1'	15:C3:52:VAL:HG23	1.95	0.48
1:2:1199:G:C5	31:D9:40:ARG:HD3	2.49	0.48
1:2:1474:G:H1	1:2:1533:C:H42	1.61	0.48
1:2:1657:U:H4'	1:2:1658:G:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1752:U:OP2	86:2:1936:OHX:N2	2.47	0.48
5:S3:107:PHE:O	5:S3:111:ASN:HB2	2.14	0.48
7:S5:103:ASN:HA	7:S5:106:LYS:HD2	1.95	0.48
12:C0:49:LEU:HB3	12:C0:55:VAL:HG11	1.95	0.48
13:C1:67:ARG:O	13:C1:127:GLN:HB3	2.13	0.48
13:C1:67:ARG:NH2	13:C1:128:CYS:O	2.47	0.48
20:C8:14:ILE:H	20:C8:24:GLY:H	1.61	0.48
36:1:314:U:H2'	36:1:315:C:C6	2.48	0.48
36:1:900:G:H1'	36:1:1589:A:H61	1.78	0.48
36:1:980:A:H2'	36:1:981:U:N1	2.29	0.48
36:1:1632:A:H2'	36:1:1633:C:C6	2.48	0.48
36:1:1675:G:H2'	36:1:1676:A:C8	2.49	0.48
36:1:2291:A:H2'	36:1:2292:U:H6	1.78	0.48
36:1:3270:U:OP2	86:1:3709:OHX:N2	2.47	0.48
40:L3:114:VAL:HG22	40:L3:163:HIS:CE1	2.49	0.48
41:L4:118:LYS:O	41:L4:122:THR:HG23	2.14	0.48
41:L4:311:HIS:HE1	41:L4:314:LYS:HA	1.75	0.48
48:M1:14:ILE:HG12	48:M1:131:MET:HE1	1.95	0.48
66:O0:17:VAL:CG2	66:O0:100:ILE:HG12	2.44	0.48
67:O1:51:LEU:HD22	67:O1:55:LEU:HD12	1.96	0.48
68:O2:81:ASP:O	68:O2:84:THR:OG1	2.29	0.48
73:O7:58:THR:O	73:O7:61:THR:HG23	2.13	0.48
79:Q3:38:ASP:OD1	79:Q3:45:LYS:HB3	2.13	0.48
1:6:936:G:N7	28:d6:15:ARG:NH1	2.62	0.48
9:s7:110:GLN:HE21	9:s7:110:GLN:HB3	1.47	0.48
10:s8:38:ILE:CD1	10:s8:80:GLY:HA2	2.43	0.48
16:c4:71:CYS:O	16:c4:76:ILE:N	2.42	0.48
19:c7:77:GLU:HG2	19:c7:80:ARG:HH21	1.78	0.48
22:d0:100:VAL:O	22:d0:104:THR:HG23	2.14	0.48
31:d9:30:LEU:HA	31:d9:39:CYS:HA	1.95	0.48
34:sR:79:TYR:HE1	34:sR:100:TYR:HE1	1.61	0.48
34:sR:161:LYS:C	34:sR:163:ASP:H	2.21	0.48
36:5:173:G:HO2'	36:5:174:C:H6	1.60	0.48
36:5:277:G:OP1	86:5:3423:OHX:N4	2.46	0.48
36:5:874:U:H5"	36:5:2950:G:OP1	2.14	0.48
36:5:1701:C:H2'	36:5:1702:U:O4'	2.14	0.48
36:5:2257:C:H2'	36:5:2258:U:C6	2.48	0.48
36:5:2257:C:O5'	36:5:2257:C:H6	1.97	0.48
36:5:2395:G:H4'	40:l3:258:ALA:HB1	1.95	0.48
36:5:2395:G:H5"	40:l3:255:TRP:CD1	2.48	0.48
36:5:2738:A:H5'	65:n9:36:ASP:OD1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3376:A:OP2	86:5:3436:OHX:N4	2.47	0.48
37:7:2:G:H4'	42:l5:270:LYS:HD3	1.94	0.48
39:l2:113:VAL:HG12	39:l2:134:VAL:HG13	1.94	0.48
39:l2:118:GLU:HG3	39:l2:126:LEU:HD21	1.96	0.48
40:l3:209:PHE:HB3	40:l3:282:ILE:HD12	1.95	0.48
46:l9:129:ARG:O	46:l9:132:VAL:HG13	2.14	0.48
1:2:632:U:OP1	13:C1:102:LYS:HG3	2.13	0.48
1:2:1486:G:C6	1:2:1522:U:H5	2.32	0.48
2:S0:183:ARG:NH2	2:S0:191:ARG:O	2.47	0.48
4:S2:52:THR:HB	4:S2:54:GLU:HG2	1.95	0.48
9:S7:155:ASP:O	9:S7:186:PRO:HD3	2.14	0.48
10:S8:57:ALA:HB2	10:S8:177:GLY:HA2	1.96	0.48
20:C8:6:GLN:O	27:D5:42:LEU:HD13	2.14	0.48
36:1:3:U:H2'	36:1:4:U:O4'	2.13	0.48
36:1:916:G:H5'	36:1:917:A:OP1	2.13	0.48
36:1:1074:U:O2'	36:1:1075:A:H2'	2.14	0.48
36:1:1103:A:H1'	36:1:1104:G:OP1	2.13	0.48
36:1:1230:G:H1	36:1:1279:C:H42	1.59	0.48
36:1:1245:A:C3'	36:1:1246:G:H5"	2.44	0.48
36:1:1317:A:C2	36:1:1319:G:C5	3.02	0.48
36:1:1560:G:C2'	36:1:1561:G:H5'	2.44	0.48
41:L4:112:LYS:HG3	51:M5:202:TYR:HB3	1.96	0.48
48:M1:65:ILE:HG22	48:M1:66:ALA:HB2	1.95	0.48
53:M7:60:PHE:HZ	53:M7:84:PRO:HG3	1.79	0.48
59:N3:37:ILE:HG12	59:N3:59:MET:O	2.14	0.48
66:O0:73:GLY:O	66:O0:76:GLU:HG2	2.14	0.48
71:O5:78:LYS:HA	71:O5:81:ARG:CD	2.39	0.48
1:6:793:A:C3'	1:6:794:U:H5'	2.41	0.48
1:6:1228:G:N3	1:6:1228:G:H2'	2.28	0.48
4:s2:212:LYS:O	4:s2:216:VAL:HG23	2.13	0.48
6:s4:173:ILE:HD13	6:s4:229:GLY:HA2	1.96	0.48
7:s5:177:ILE:HG12	7:s5:180:ARG:NH1	2.29	0.48
9:s7:164:TYR:CE1	9:s7:165:LYS:HG3	2.49	0.48
15:c3:74:ILE:O	15:c3:78:ASN:ND2	2.31	0.48
80:sM:58:GLU:OE2	80:sM:62:ARG:HD2	2.14	0.48
36:5:627:U:H4'	36:5:1399:A:O2'	2.14	0.48
36:5:1770:G:H5'	36:5:1771:C:OP2	2.14	0.48
36:5:2853:A:H5"	47:m0:3:ARG:HH21	1.79	0.48
36:5:3041:U:O2'	59:n3:43:GLY:HA3	2.14	0.48
86:5:3504:OHX:N6	44:l7:216:VAL:O	2.46	0.48
38:8:82:U:O2	38:8:87:G:H4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:77:THR:HG23	40:l3:326:GLY:O	2.14	0.48
40:l3:103:THR:HG21	40:l3:147:GLU:OE2	2.14	0.48
46:l9:86:TYR:CD1	46:l9:151:VAL:HG13	2.49	0.48
48:m1:94:ARG:C	48:m1:96:PHE:H	2.21	0.48
49:m3:43:ALA:HA	49:m3:46:ILE:HB	1.96	0.48
1:2:25:C:HO2'	1:2:366:A:HO2'	1.58	0.48
1:2:455:C:H3'	1:2:456:A:H8	1.79	0.48
1:2:1482:C:OP2	1:2:1521:G:N2	2.43	0.48
4:S2:140:ARG:HG2	4:S2:155:ALA:HB2	1.95	0.48
16:C4:25:ASP:N	16:C4:55:SER:HB3	2.29	0.48
18:C6:99:GLU:HB2	34:SR:58:VAL:C	2.39	0.48
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.47	0.48
35:SM:64:LYS:HD3	35:SM:64:LYS:H	1.79	0.48
36:1:13:A:H5"	36:1:13:A:C8	2.48	0.48
36:1:975:C:H2'	36:1:976:U:C6	2.49	0.48
36:1:2508:U:O5'	36:1:2508:U:H6	1.97	0.48
36:1:3159:C:H2'	36:1:3160:U:C6	2.49	0.48
37:3:36:C:O2'	37:3:37:G:H5'	2.14	0.48
40:L3:113:GLU:HB3	40:L3:176:ALA:HB2	1.95	0.48
42:L5:58:LYS:HA	42:L5:93:THR:HB	1.95	0.48
49:M3:131:LYS:NZ	49:M3:131:LYS:HB3	2.29	0.48
59:N3:54:LEU:HD23	59:N3:121:GLU:HB2	1.96	0.48
66:O0:40:LYS:HB3	66:O0:101:LEU:HD11	1.96	0.48
75:O9:5:LYS:HD3	75:O9:13:MET:HE1	1.96	0.48
76:Q0:92:ASP:O	76:Q0:105:PRO:HG3	2.14	0.48
1:6:151:G:H1	1:6:163:G:H1	1.62	0.48
1:6:399:A:P	10:s8:49:ARG:HH22	2.37	0.48
1:6:769:A:OP1	86:6:1991:OHX:N4	2.46	0.48
1:6:1773:C:OP2	77:q1:2:ARG:HD2	2.13	0.48
5:s3:44:THR:HG23	5:s3:45:LYS:N	2.29	0.48
11:s9:163:PRO:HB3	11:s9:169:PRO:HA	1.95	0.48
17:c5:100:LYS:HG3	17:c5:101:ALA:N	2.29	0.48
34:sR:23:LEU:HD11	34:sR:304:GLY:H	1.78	0.48
36:5:169:U:H4'	36:5:170:G:OP1	2.13	0.48
36:5:408:A:N6	38:8:15:G:H1'	2.29	0.48
36:5:928:C:H2'	36:5:929:A:C8	2.49	0.48
36:5:929:A:H2'	36:5:930:U:C6	2.49	0.48
36:5:1237:G:H21	82:m2:138:UNK:CB	2.26	0.48
36:5:1592:G:OP2	70:o4:37:LYS:NZ	2.38	0.48
36:5:1595:U:C2	36:5:1596:C:C5	3.02	0.48
46:l9:166:ARG:HD2	46:l9:168:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:n7:76:ASN:OD1	63:n7:78:ASN:N	2.44	0.48
1:2:269:G:C6	1:2:287:G:C6	3.02	0.47
1:2:767:U:H5	11:S9:142:ASN:H	1.62	0.47
1:2:788:A:H3'	6:S4:108:ARG:NH2	2.29	0.47
1:2:1291:G:H22	1:2:1324:G:N2	2.10	0.47
1:2:1679:G:N7	86:2:1983:OHX:N5	2.62	0.47
12:C0:8:ARG:HD2	12:C0:12:HIS:HE1	1.77	0.47
17:C5:57:MET:HA	17:C5:60:LEU:HB3	1.95	0.47
17:C5:126:VAL:CG1	35:SM:71:ASN:HD21	2.27	0.47
18:C6:115:THR:HB	18:C6:118:ILE:O	2.14	0.47
21:C9:15:ILE:HD13	21:C9:60:SER:HA	1.95	0.47
23:D1:73:ALA:HB1	23:D1:78:LEU:HG	1.95	0.47
36:1:597:G:H2'	36:1:598:A:H8	1.79	0.47
36:1:898:U:H2'	36:1:899:U:O4'	2.14	0.47
36:1:2443:A:N3	36:1:2444:C:H5"	2.28	0.47
36:1:2808:A:O2'	36:1:2969:A:OP1	2.22	0.47
36:1:3124:G:N2	36:1:3125:U:H1'	2.29	0.47
42:L5:208:MET:HB2	42:L5:233:ALA:HB2	1.96	0.47
56:N0:155:ARG:HD3	56:N0:172:TYR:CD1	2.50	0.47
63:N7:73:LYS:HB3	63:N7:75:VAL:HG22	1.95	0.47
1:6:867:G:O6	86:6:1913:OHX:N1	2.46	0.47
1:6:1201:G:H22	1:6:1600:A:H5'	1.78	0.47
1:6:1257:U:O2'	1:6:1258:U:O4'	2.32	0.47
2:s0:74:VAL:HG22	2:s0:96:THR:HG23	1.96	0.47
2:s0:185:ARG:H	23:d1:45:ALA:H	1.61	0.47
5:s3:142:LEU:HD23	5:s3:148:LYS:HB2	1.95	0.47
12:c0:23:ALA:O	12:c0:24:LYS:HB3	2.14	0.47
18:c6:95:LYS:HE3	18:c6:96:TYR:CZ	2.49	0.47
34:sR:248:ASN:ND2	34:sR:298:GLY:HA3	2.28	0.47
36:5:406:G:H1'	38:8:16:G:N2	2.29	0.47
36:5:799:G:O2'	49:m3:18:TRP:NE1	2.38	0.47
36:5:1201:C:OP1	86:5:3719:OHX:N1	2.47	0.47
36:5:2413:A:H2'	36:5:2414:G:C8	2.49	0.47
39:l2:130:SER:HA	39:l2:169:ILE:HG22	1.96	0.47
44:l7:40:LYS:HE2	44:l7:170:GLU:OE1	2.13	0.47
44:l7:98:LYS:HB3	44:l7:99:PRO:HD3	1.95	0.47
81:l8:163:VAL:O	81:l8:166:LEU:HB2	2.14	0.47
47:m0:127:ALA:O	47:m0:129:VAL:HG23	2.13	0.47
51:m5:39:ALA:HB3	51:m5:61:ILE:HG22	1.96	0.47
52:m6:10:ASP:OD2	52:m6:37:ARG:NH2	2.32	0.47
68:o2:74:PHE:HB3	68:o2:85:LEU:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:717:C:H2'	1:2:718:U:H5"	1.95	0.47
1:2:867:G:H5'	15:C3:4:MET:HE3	1.95	0.47
1:2:868:G:OP1	15:C3:121:ARG:NH1	2.48	0.47
1:2:1580:C:H2'	1:2:1581:C:C6	2.49	0.47
3:S1:48:VAL:HG13	3:S1:61:LEU:HD21	1.97	0.47
5:S3:136:VAL:O	5:S3:152:PHE:N	2.45	0.47
19:C7:44:LYS:HG2	19:C7:48:ASN:HD21	1.78	0.47
22:D0:61:LYS:HG3	22:D0:86:ILE:HB	1.95	0.47
23:D1:1:MET:HE2	23:D1:13:VAL:HG22	1.95	0.47
26:D4:84:LYS:HD2	26:D4:85:PHE:CZ	2.49	0.47
28:D6:96:ALA:C	28:D6:98:PRO:HD2	2.37	0.47
29:D7:29:ARG:HH11	29:D7:29:ARG:HG3	1.79	0.47
36:1:656:A:H2'	36:1:657:A:C8	2.49	0.47
36:1:3087:A:OP1	86:1:3701:OHX:N6	2.48	0.47
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.41	0.47
40:L3:161:LEU:HD22	40:L3:178:LEU:HD11	1.96	0.47
46:L9:103:ILE:HG13	46:L9:136:PHE:CE2	2.48	0.47
47:M0:101:LYS:C	47:M0:102:MET:HG2	2.39	0.47
48:M1:35:LYS:HB3	48:M1:120:ILE:HD11	1.95	0.47
54:M8:2:GLY:C	54:M8:3:ILE:HD13	2.38	0.47
64:N8:74:ASN:CB	64:N8:115:LYS:HB2	2.43	0.47
1:6:491:C:H42	1:6:497:G:H21	1.61	0.47
1:6:542:A:H1'	1:6:543:C:OP1	2.14	0.47
1:6:655:G:H2'	1:6:656:G:C8	2.48	0.47
6:s4:185:GLY:HA2	6:s4:189:LEU:HD22	1.96	0.47
6:s4:211:LYS:HA	6:s4:216:ASN:O	2.14	0.47
12:c0:29:GLN:HB3	12:c0:39:ASN:HB3	1.96	0.47
34:sR:62:LYS:O	34:sR:92:TRP:HH2	1.96	0.47
36:5:1947:G:O6	86:5:3681:OHX:N3	2.47	0.47
36:5:2111:G:H4'	36:5:2112:U:OP2	2.14	0.47
36:5:2997:G:N7	86:5:3678:OHX:N3	2.62	0.47
40:l3:313:HIS:O	40:l3:333:LYS:HE3	2.14	0.47
41:l4:233:LEU:HD23	41:l4:233:LEU:HA	1.71	0.47
41:l4:315:LYS:HB2	41:l4:323:VAL:HG21	1.96	0.47
52:m6:12:LYS:HD3	52:m6:40:GLU:CD	2.39	0.47
64:n8:14:HIS:HA	68:o2:36:LYS:HD2	1.97	0.47
69:o3:103:TYR:HA	69:o3:104:PRO:C	2.39	0.47
78:q2:2:VAL:N	78:q2:90:HIS:O	2.47	0.47
1:2:158:U:O2'	1:2:160:C:OP2	2.20	0.47
1:2:293:U:OP1	86:2:2003:OHX:N2	2.47	0.47
1:2:576:G:H4'	1:2:580:A:C4	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:646:C:H2'	1:2:647:G:C8	2.49	0.47
1:2:740:A:H2'	1:2:741:C:H5"	1.95	0.47
1:2:1192:C:H5'	18:C6:142:TYR:HA	1.96	0.47
1:2:1277:G:H2'	1:2:1278:G:O4'	2.15	0.47
5:S3:92:GLN:CD	5:S3:92:GLN:H	2.22	0.47
5:S3:141:LYS:HD3	5:S3:179:GLN:HG3	1.95	0.47
7:S5:59:VAL:C	7:S5:61:TYR:H	2.22	0.47
17:C5:16:SER:HA	17:C5:20:VAL:O	2.14	0.47
28:D6:41:ILE:O	28:D6:41:ILE:HG12	2.13	0.47
30:D8:64:ARG:HD2	30:D8:64:ARG:HA	1.68	0.47
36:1:744:A:H4'	54:M8:142:GLY:O	2.14	0.47
36:1:1313:G:O3'	52:M6:17:GLY:HA3	2.15	0.47
36:1:1509:A:O2'	36:1:1510:G:H5'	2.15	0.47
36:1:2510:U:O2'	36:1:2511:A:H5"	2.14	0.47
36:1:2916:U:O3'	59:N3:46:LEU:HA	2.13	0.47
38:4:69:U:OP2	73:O7:88:ALA:HB3	2.14	0.47
41:L4:26:PHE:HA	41:L4:127:ALA:HA	1.96	0.47
42:L5:21:ARG:O	42:L5:25:GLU:HG3	2.15	0.47
52:M6:54:TYR:CE2	52:M6:58:LEU:HD22	2.49	0.47
54:M8:150:VAL:HA	54:M8:153:PHE:CD1	2.49	0.47
69:O3:86:ARG:O	86:O3:201:OHX:N1	2.46	0.47
73:O7:52:LYS:HA	73:O7:55:ARG:HD2	1.96	0.47
1:6:320:U:H2'	1:6:321:C:H2'	1.97	0.47
1:6:694:U:H3'	1:6:695:U:O2	2.14	0.47
1:6:852:C:OP1	55:m9:172:ARG:NH1	2.48	0.47
1:6:882:U:H2'	1:6:883:C:H6	1.78	0.47
1:6:1614:A:C6	1:6:1615:C:N4	2.82	0.47
1:6:1650:U:H2'	1:6:1651:A:C8	2.48	0.47
6:s4:13:ALA:O	6:s4:39:ARG:NH2	2.46	0.47
20:c8:54:LEU:HD12	20:c8:54:LEU:H	1.79	0.47
36:5:26:A:N3	36:5:328:U:O2'	2.41	0.47
36:5:343:U:O2	36:5:1439:U:H1'	2.14	0.47
36:5:1013:G:O6	86:5:3604:OHX:N3	2.47	0.47
36:5:1405:U:OP2	68:o2:59:SER:OG	2.27	0.47
36:5:2244:A:H5"	39:l2:243:THR:OG1	2.14	0.47
36:5:2396:G:OP1	36:5:2397:A:H4'	2.13	0.47
36:5:2746:A:H2	42:l5:146:LEU:HB3	1.79	0.47
36:5:3218:A:H5"	36:5:3219:G:C5	2.49	0.47
37:7:3:U:H2'	37:7:4:U:H6	1.79	0.47
38:8:65:A:H2'	38:8:66:A:O4'	2.13	0.47
48:m1:16:LYS:HG2	48:m1:130:VAL:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:m4:123:LEU:HD23	52:m6:190:VAL:HG13	1.96	0.47
1:2:1274:C:H4'	1:2:1275:A:O5'	2.15	0.47
5:S3:79:TYR:CD1	5:S3:84:ILE:HB	2.49	0.47
5:S3:116:ARG:O	5:S3:120:TYR:HB2	2.13	0.47
7:S5:62:VAL:HG13	7:S5:89:ILE:HG21	1.96	0.47
24:D2:82:LYS:C	24:D2:84:GLY:H	2.14	0.47
31:D9:5:ASN:OD1	31:D9:7:TRP:NE1	2.46	0.47
36:1:388:G:H4'	53:M7:18:ARG:O	2.14	0.47
36:1:785:G:OP2	54:M8:66:ARG:NH1	2.47	0.47
36:1:1925:U:O2	79:Q3:19:GLY:HA2	2.14	0.47
36:1:2403:G:H21	36:1:2404:A:H62	1.62	0.47
37:3:27:A:OP2	42:L5:57:ASN:N	2.31	0.47
48:M1:94:ARG:C	48:M1:96:PHE:H	2.21	0.47
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.25	0.47
74:O8:10:GLN:HA	74:O8:13:GLU:OE1	2.14	0.47
1:6:180:A:H2'	1:6:181:A:O4'	2.14	0.47
1:6:1133:A:H2'	1:6:1134:C:O4'	2.15	0.47
1:6:1339:C:O2'	1:6:1341:A:N7	2.46	0.47
1:6:1653:C:O3'	77:q1:21:ARG:HD2	2.14	0.47
1:6:1699:G:C2	1:6:1701:A:H5"	2.49	0.47
2:s0:147:THR:O	2:s0:161:PRO:HA	2.14	0.47
6:s4:126:VAL:HG22	6:s4:156:VAL:HA	1.95	0.47
7:s5:146:THR:HG22	7:s5:157:ARG:HB3	1.96	0.47
9:s7:21:ALA:O	9:s7:25:VAL:HG23	2.14	0.47
9:s7:116:ARG:HD3	9:s7:116:ARG:HA	1.59	0.47
13:c1:125:VAL:HG13	13:c1:137:PHE:HB3	1.96	0.47
36:5:92:G:OP2	36:5:93:C:H5"	2.14	0.47
36:5:662:U:OP1	64:n8:8:THR:HG21	2.13	0.47
36:5:1048:A:H2'	47:m0:22:TYR:CZ	2.49	0.47
36:5:1110:U:H2'	36:5:1111:U:C6	2.48	0.47
36:5:1721:U:O4	55:m9:128:LYS:HE3	2.14	0.47
36:5:2093:A:P	55:m9:143:ILE:HD12	2.53	0.47
36:5:2748:A:H1'	42:l5:36:LEU:HD23	1.95	0.47
36:5:2803:A:OP1	78:q2:60:LYS:HE3	2.14	0.47
37:7:3:U:H2'	37:7:4:U:C6	2.49	0.47
39:l2:3:ARG:HG2	39:l2:4:VAL:N	2.29	0.47
48:m1:21:ILE:HD11	48:m1:125:MET:HE2	1.96	0.47
61:n5:68:THR:HG21	71:o5:36:LEU:HD11	1.96	0.47
70:o4:106:LYS:O	70:o4:110:GLU:HB2	2.14	0.47
1:2:702:G:C6	1:2:737:A:N6	2.83	0.47
1:2:1200:G:H4'	1:2:1201:G:C5'	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1534:G:O6	27:D5:77:ARG:NH2	2.47	0.47
3:S1:59:ASP:HA	3:S1:62:LYS:NZ	2.29	0.47
6:S4:37:LYS:HB2	6:S4:40:GLU:HG2	1.97	0.47
12:C0:38:LYS:HB2	12:C0:41:TYR:CD1	2.49	0.47
15:C3:55:ARG:NH1	15:C3:56:ASP:OD2	2.48	0.47
31:D9:36:LEU:HD12	31:D9:38:ILE:HG13	1.97	0.47
36:1:437:G:H2'	36:1:438:A:C8	2.49	0.47
36:1:1080:A:OP2	42:L5:140:ARG:NH2	2.48	0.47
36:1:2259:A:OP2	86:1:3471:OHX:N2	2.47	0.47
38:4:5:U:H2'	38:4:6:U:O4'	2.15	0.47
38:4:25:G:N7	62:N6:13:ARG:NH2	2.62	0.47
38:4:143:U:H2'	38:4:144:G:O4'	2.14	0.47
45:L8:36:ILE:O	45:L8:38:GLN:N	2.48	0.47
56:N0:13:ARG:O	56:N0:22:PRO:HG2	2.15	0.47
66:O0:45:ALA:O	66:O0:48:THR:HG22	2.15	0.47
1:6:363:G:OP1	86:6:1966:OHX:N1	2.48	0.47
1:6:486:G:OP1	1:6:486:G:H4'	2.14	0.47
1:6:1151:A:O3'	1:6:1766:A:N6	2.47	0.47
2:s0:74:VAL:HG12	2:s0:76:ILE:HG13	1.96	0.47
6:s4:45:ILE:HB	6:s4:80:THR:HG23	1.96	0.47
21:c9:61:VAL:HG11	21:c9:105:LEU:HD21	1.96	0.47
34:sR:95:ALA:C	34:sR:97:GLY:H	2.23	0.47
36:5:2537:U:O2'	36:5:2538:U:O5'	2.31	0.47
37:7:55:A:C4	48:m1:9:MET:HG2	2.49	0.47
40:l3:292:ALA:HB1	40:l3:295:ALA:HB3	1.96	0.47
48:m1:37:LEU:HD13	48:m1:69:VAL:HG12	1.95	0.47
82:m2:105:UNK:HA	82:m2:142:UNK:O	2.14	0.47
54:m8:170:ARG:HA	54:m8:174:ARG:HD2	1.97	0.47
59:n3:13:ILE:HG13	59:n3:85:TRP:CG	2.50	0.47
78:q2:73:GLU:OE1	78:q2:80:ARG:NH1	2.47	0.47
1:2:542:A:H2'	1:2:543:C:H3'	1.96	0.47
1:2:1765:A:H8	1:2:1768:G:H22	1.62	0.47
4:S2:130:ILE:O	4:S2:134:LEU:HD22	2.14	0.47
5:S3:28:GLU:OE1	5:S3:65:ARG:NH1	2.47	0.47
7:S5:48:PHE:O	7:S5:51:VAL:HG13	2.15	0.47
10:S8:36:THR:HG23	10:S8:96:LEU:O	2.15	0.47
36:1:65:A:H3'	36:1:111:C:N4	2.29	0.47
36:1:255:A:H2'	36:1:256:G:C8	2.49	0.47
36:1:408:A:OP1	86:1:3592:OHX:N3	2.48	0.47
36:1:619:A:H5"	36:1:620:U:OP1	2.14	0.47
36:1:853:G:N7	79:Q3:2:ALA:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:905:U:O2'	36:1:910:G:O3'	2.29	0.47
36:1:1038:C:H4'	42:L5:5:LYS:NZ	2.30	0.47
36:1:1141:C:O2'	36:1:1153:A:N3	2.44	0.47
36:1:1836:C:O2'	36:1:1842:A:N1	2.41	0.47
36:1:1940:G:H2'	36:1:1941:C:O4'	2.15	0.47
36:1:2282:U:O4'	36:1:2960:C:O2'	2.29	0.47
36:1:2623:G:C5	36:1:2624:G:C5	3.02	0.47
36:1:2746:A:C6	42:L5:148:ILE:HD12	2.50	0.47
36:1:3033:A:H2'	36:1:3034:C:C6	2.50	0.47
38:4:82:U:H5'	38:4:82:U:H6	1.78	0.47
42:L5:148:ILE:HG12	42:L5:159:VAL:HG21	1.97	0.47
48:M1:80:LEU:HD22	48:M1:84:LEU:HG	1.96	0.47
66:O0:57:GLU:OE1	66:O0:69:TYR:OH	2.26	0.47
71:O5:7:TYR:CE1	71:O5:8:GLU:HG3	2.50	0.47
1:6:14:C:OP2	4:s2:206:THR:HG21	2.14	0.47
1:6:219:A:H2'	1:6:831:U:O2	2.15	0.47
1:6:381:C:H5"	6:s4:10:LYS:HD3	1.96	0.47
1:6:871:G:H2'	1:6:872:G:C8	2.50	0.47
1:6:1508:U:H2'	1:6:1509:C:C6	2.49	0.47
2:s0:76:ILE:HG12	2:s0:98:ILE:HB	1.96	0.47
3:s1:144:ARG:HB3	3:s1:208:GLN:HB3	1.96	0.47
12:c0:1:MET:HE2	12:c0:41:TYR:CE1	2.50	0.47
13:c1:27:THR:HG22	13:c1:28:SER:H	1.79	0.47
20:c8:140:THR:HA	20:c8:143:ARG:NH1	2.30	0.47
80:sM:25:ILE:HG12	37:7:39:C:H5'	1.96	0.47
80:sM:43:ASP:HA	80:sM:44:PRO:HD3	1.79	0.47
36:5:239:G:O6	86:5:3632:OHX:N6	2.48	0.47
36:5:655:C:OP1	68:o2:27:ARG:HB3	2.14	0.47
36:5:1489:A:O4'	70:o4:12:PRO:HG3	2.15	0.47
36:5:1633:C:OP2	63:n7:69:LYS:NZ	2.47	0.47
36:5:1723:A:N1	36:5:1788:C:O2'	2.43	0.47
36:5:2245:C:H4'	39:l2:221:LYS:O	2.15	0.47
36:5:2922:G:H5"	36:5:2923:U:OP2	2.14	0.47
38:8:70:G:O6	86:8:204:OHX:N1	2.48	0.47
39:l2:147:ARG:HA	39:l2:157:VAL:HA	1.95	0.47
40:l3:347:SER:O	40:l3:348:ARG:HB3	2.15	0.47
42:l5:38:THR:O	42:l5:48:LYS:HE3	2.13	0.47
42:l5:254:LYS:HD2	42:l5:255:PRO:O	2.15	0.47
43:l6:53:VAL:H	43:l6:67:GLY:HA2	1.78	0.47
81:l8:166:LEU:HD23	81:l8:166:LEU:HA	1.64	0.47
1:2:12:U:H2'	1:2:13:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:224:C:H2'	1:2:225:A:C8	2.49	0.47
1:2:579:A:C2	5:S3:143:ARG:HG3	2.50	0.47
1:2:868:G:O6	86:2:1910:OHX:N2	2.48	0.47
1:2:1156:C:C2'	1:2:1157:A:H5'	2.45	0.47
1:2:1459:C:OP2	20:C8:138:THR:OG1	2.32	0.47
1:2:1553:G:O2'	31:D9:14:TYR:OH	2.26	0.47
1:2:1695:G:H21	1:2:1706:C:N4	2.11	0.47
2:S0:163:ASN:HD21	2:S0:165:ARG:HG3	1.79	0.47
4:S2:225:LEU:HD13	24:D2:68:ARG:HA	1.97	0.47
6:S4:124:GLY:O	6:S4:160:VAL:N	2.47	0.47
8:S6:98:ARG:HD3	8:S6:99:GLY:N	2.29	0.47
17:C5:71:GLU:HG2	17:C5:72:LYS:H	1.80	0.47
18:C6:12:LYS:HD3	18:C6:17:THR:HG22	1.96	0.47
18:C6:83:GLN:HG3	18:C6:116:LEU:O	2.14	0.47
19:C7:71:PHE:CD1	19:C7:73:LEU:HB3	2.48	0.47
20:C8:127:HIS:NE2	20:C8:133:VAL:HG21	2.30	0.47
27:D5:37:GLN:O	27:D5:38:HIS:HB3	2.14	0.47
33:E1:130:VAL:HG11	33:E1:143:LYS:HG2	1.97	0.47
34:SR:280:GLY:O	86:SR:401:OHX:N5	2.48	0.47
35:SM:61:ILE:H	35:SM:61:ILE:HG13	1.57	0.47
36:1:20:A:OP2	71:O5:90:ARG:NH1	2.48	0.47
36:1:534:U:O2	56:N0:146:LYS:HA	2.15	0.47
36:1:792:G:H2'	36:1:793:C:C6	2.49	0.47
36:1:1478:C:H2'	36:1:1479:U:C6	2.50	0.47
36:1:1722:U:OP1	55:M9:100:ARG:NH1	2.48	0.47
36:1:2320:A:C2	79:Q3:16:VAL:HG13	2.50	0.47
36:1:2534:G:H2'	36:1:2535:A:C8	2.49	0.47
36:1:2562:A:OP2	63:N7:56:LYS:NZ	2.48	0.47
36:1:2765:C:O3'	78:Q2:39:GLY:HA3	2.14	0.47
36:1:2790:A:OP2	54:M8:181:SER:HB3	2.15	0.47
36:1:2941:A:N7	40:L3:255:TRP:CE2	2.83	0.47
36:1:2970:C:H4'	36:1:2971:A:C2	2.50	0.47
36:1:3356:G:H2'	36:1:3357:U:C6	2.50	0.47
40:L3:187:SER:HB3	40:L3:190:GLU:OE1	2.13	0.47
44:L7:88:ARG:CZ	44:L7:103:LEU:HD13	2.44	0.47
45:L8:36:ILE:HG22	45:L8:37:GLY:N	2.23	0.47
46:L9:92:TYR:N	46:L9:92:TYR:CD1	2.82	0.47
49:M3:189:GLU:O	49:M3:192:GLU:HG2	2.14	0.47
51:M5:123:GLN:O	51:M5:123:GLN:HG2	2.15	0.47
55:M9:130:ASN:C	55:M9:132:PHE:N	2.72	0.47
56:N0:12:ARG:HG2	56:N0:24:LEU:HD23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:83:GLU:OE2	86:O1:201:OHX:N4	2.47	0.47
76:Q0:98:LYS:HD2	76:Q0:118:THR:HG21	1.96	0.47
1:6:1:U:H2'	1:6:1:U:O2	2.14	0.47
1:6:4:C:O2'	11:s9:17:ARG:NH1	2.34	0.47
1:6:765:G:N7	11:s9:149:ARG:HD2	2.30	0.47
1:6:1334:U:H2'	1:6:1335:U:O4'	2.15	0.47
1:6:1405:G:H2'	1:6:1406:A:C8	2.49	0.47
1:6:1606:C:H2'	1:6:1607:G:C8	2.50	0.47
3:s1:66:VAL:CG1	16:c4:33:LEU:HB3	2.44	0.47
5:s3:168:ILE:HG22	5:s3:189:MET:HA	1.97	0.47
5:s3:220:PRO:HB3	34:sR:221:MET:HE1	1.97	0.47
6:s4:157:ASN:OD1	6:s4:222:LEU:HD11	2.15	0.47
6:s4:195:ILE:HG22	6:s4:196:VAL:N	2.29	0.47
8:s6:63:MET:HE2	8:s6:106:LEU:HD22	1.96	0.47
17:c5:22:LEU:HA	17:c5:25:LEU:HB2	1.97	0.47
17:c5:130:ARG:NH2	80:sM:65:THR:O	2.47	0.47
28:d6:10:ARG:HH12	28:d6:36:ILE:HG13	1.80	0.47
36:5:374:A:N3	36:5:376:G:H5"	2.30	0.47
36:5:816:A:H5"	36:5:920:A:H62	1.79	0.47
36:5:1238:C:H2'	36:5:1239:C:O4'	2.15	0.47
36:5:1302:A:N7	36:5:2857:C:O2'	2.45	0.47
36:5:1700:G:H2'	36:5:1701:C:C6	2.50	0.47
36:5:1746:U:H2'	36:5:1747:G:H8	1.79	0.47
36:5:2605:G:N7	86:5:3518:OHX:N1	2.63	0.47
36:5:2991:A:OP1	40:l3:21:ARG:HG3	2.14	0.47
36:5:3206:C:O2	56:n0:155:ARG:NH1	2.48	0.47
36:5:3275:U:H4'	36:5:3276:G:OP2	2.09	0.47
36:5:3278:C:O2'	36:5:3279:A:OP2	2.28	0.47
39:l2:137:ILE:HG12	39:l2:147:ARG:HG3	1.97	0.47
41:l4:361:HIS:CG	41:l4:362:ASP:N	2.82	0.47
42:l5:185:PHE:H	42:l5:185:PHE:HD2	1.62	0.47
81:l8:152:LEU:HB3	81:l8:180:VAL:HG21	1.96	0.47
46:l9:7:GLU:HA	46:l9:68:LEU:HD11	1.97	0.47
47:m0:208:ASN:HA	47:m0:211:ARG:HD2	1.96	0.47
52:m6:124:LEU:HD12	52:m6:124:LEU:HA	1.78	0.47
53:m7:59:PRO:HG3	53:m7:76:PHE:CG	2.50	0.47
54:m8:42:ALA:HB2	54:m8:133:LYS:HG2	1.96	0.47
56:n0:86:GLY:O	56:n0:88:HIS:NE2	2.48	0.47
57:n1:73:GLY:HA2	57:n1:89:LEU:O	2.14	0.47
83:n4:126:GLU:O	83:n4:130:SER:HB3	2.15	0.47
71:o5:86:ARG:HG3	71:o5:90:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:o7:19:CYS:HB2	73:o7:27:PHE:HB2	1.96	0.47
84:p0:4:ILE:HD13	84:p0:4:ILE:H	1.80	0.47
1:2:30:G:H2'	1:2:31:C:C6	2.49	0.47
1:2:1516:A:OP1	22:D0:88:LYS:NZ	2.48	0.47
2:S0:9:LEU:HD23	2:S0:54:TRP:CD2	2.50	0.47
2:S0:179:ARG:HD3	2:S0:183:ARG:HD2	1.97	0.47
3:S1:117:TRP:HE1	3:S1:152:ARG:CZ	2.27	0.47
3:S1:149:GLN:HE22	3:S1:154:SER:HB2	1.80	0.47
6:S4:79:ASP:OD1	6:S4:82:TYR:N	2.48	0.47
12:C0:44:LYS:NZ	12:C0:47:GLN:OE1	2.36	0.47
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.29	0.47
28:D6:41:ILE:HD13	28:D6:41:ILE:H	1.80	0.47
36:1:997:A:H2'	36:1:998:A:O4'	2.15	0.47
36:1:2503:G:HO2'	36:1:2504:U:H5	1.62	0.47
36:1:2723:U:H2'	36:1:2724:U:C6	2.50	0.47
36:1:2818:U:H5'	36:1:2818:U:C6	2.47	0.47
36:1:3136:G:OP2	86:1:3631:OHX:N6	2.47	0.47
36:1:3309:G:H5"	36:1:3309:G:N3	2.30	0.47
40:L3:292:ALA:HA	40:L3:303:LYS:H	1.78	0.47
54:M8:57:ILE:HD11	54:M8:147:ARG:NH2	2.30	0.47
55:M9:141:HIS:O	55:M9:145:ALA:N	2.45	0.47
55:M9:180:LYS:HA	55:M9:183:ALA:HB3	1.95	0.47
58:N2:33:TYR:CE2	58:N2:63:VAL:HG21	2.50	0.47
1:6:555:A:H5'	11:s9:19:TYR:O	2.15	0.47
7:s5:61:TYR:OH	30:d8:52:ASP:OD1	2.24	0.47
11:s9:149:ARG:HG3	11:s9:149:ARG:HH11	1.79	0.47
36:5:3330:A:H5"	36:5:3330:A:H8	1.79	0.47
44:l7:116:PHE:HB2	44:l7:199:ASN:OD1	2.15	0.47
49:m3:18:TRP:CD1	49:m3:18:TRP:H	2.33	0.47
62:n6:57:LEU:HB3	62:n6:105:VAL:HG12	1.96	0.47
67:o1:46:THR:HG23	67:o1:47:ASP:N	2.29	0.47
70:o4:8:ARG:NH2	70:o4:31:ARG:HD2	2.30	0.47
71:o5:66:VAL:HG12	71:o5:80:LEU:HD11	1.95	0.47
1:2:61:A:H8	1:2:269:G:HO2'	1.61	0.47
1:2:276:C:O2'	1:2:277:U:H5"	2.15	0.47
1:2:499:U:O2'	1:2:500:C:H5"	2.14	0.47
1:2:708:C:C2	1:2:709:C:H5	2.33	0.47
1:2:755:A:H2'	1:2:756:A:H8	1.80	0.47
1:2:1192:C:O2'	18:C6:140:LYS:NZ	2.43	0.47
1:2:1341:A:OP1	34:SR:63:GLY:HA2	2.14	0.47
1:2:1586:A:H2'	1:2:1587:A:O4'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:6:THR:C	2:S0:8:ASP:H	2.22	0.47
3:S1:171:ILE:HA	3:S1:174:LYS:HE3	1.96	0.47
9:S7:74:GLN:NE2	9:S7:92:PHE:HB2	2.25	0.47
9:S7:91:ILE:HD12	9:S7:91:ILE:HA	1.80	0.47
26:D4:20:ARG:C	26:D4:21:LYS:HD2	2.39	0.47
34:SR:93:ASP:HB2	34:SR:100:TYR:CE1	2.50	0.47
36:1:180:C:H2'	36:1:181:U:H6	1.80	0.47
36:1:519:A:O5'	44:L7:70:LYS:NZ	2.48	0.47
36:1:975:C:H2'	36:1:976:U:H6	1.79	0.47
36:1:1273:A:O2'	36:1:1274:A:OP1	2.30	0.47
36:1:2263:C:OP1	86:1:3523:OHX:N1	2.48	0.47
36:1:2726:C:O2'	36:1:2727:A:H2'	2.15	0.47
36:1:3153:U:H3	36:1:3293:U:H3	1.62	0.47
38:4:10:A:H2'	38:4:11:C:C6	2.50	0.47
40:L3:261:MET:HE2	52:M6:64:PHE:HA	1.95	0.47
42:L5:155:THR:HA	42:L5:179:ARG:HA	1.97	0.47
42:L5:259:LYS:O	42:L5:260:PHE:HB2	2.15	0.47
43:L6:136:GLU:O	43:L6:140:VAL:HG23	2.15	0.47
44:L7:25:GLN:HG2	44:L7:29:GLU:HB2	1.97	0.47
53:M7:122:ALA:HB3	53:M7:143:PRO:HG2	1.96	0.47
55:M9:130:ASN:O	55:M9:132:PHE:N	2.48	0.47
56:N0:123:ILE:O	57:N1:153:PRO:HG2	2.15	0.47
71:O5:4:VAL:HG11	71:O5:9:LEU:HD11	1.97	0.47
1:6:42:G:N7	86:6:1919:OHX:N5	2.63	0.47
1:6:333:A:C6	1:6:334:G:C6	3.03	0.47
1:6:1163:A:N3	1:6:1613:U:O2'	2.41	0.47
1:6:1270:G:O2'	33:e1:79:LYS:HB2	2.15	0.47
4:s2:115:ILE:HD11	4:s2:212:LYS:HD2	1.97	0.47
6:s4:98:ASN:ND2	6:s4:116:ASP:OD1	2.48	0.47
9:s7:138:LYS:HB3	24:d2:54:ASP:HB3	1.97	0.47
10:s8:84:HIS:NE2	10:s8:90:LEU:HD13	2.30	0.47
28:d6:50:VAL:HA	28:d6:53:LEU:HB2	1.96	0.47
36:5:75:G:H5"	49:m3:58:VAL:CG1	2.44	0.47
36:5:707:U:H2'	36:5:708:G:H5"	1.96	0.47
36:5:1352:A:H1'	36:5:1353:U:O5'	2.15	0.47
36:5:1447:G:O2'	36:5:2355:G:O6	2.30	0.47
36:5:1494:U:H4'	36:5:1495:U:O5'	2.13	0.47
36:5:1655:G:H8	36:5:1655:G:H5'	1.79	0.47
36:5:2520:A:H2'	36:5:2521:U:C6	2.50	0.47
36:5:2856:G:H2'	36:5:2857:C:C6	2.50	0.47
36:5:3084:C:H2'	36:5:3085:G:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3170:A:C2'	36:5:3171:U:H5'	2.45	0.47
81:l8:65:LEU:HD12	51:m5:25:VAL:HG13	1.97	0.47
82:m2:126:UNK:O	82:m2:130:UNK:N	2.48	0.47
73:o7:50:GLY:O	73:o7:53:ALA:N	2.48	0.47
77:q1:16:LYS:O	77:q1:20:VAL:HG23	2.15	0.47
79:q3:35:ALA:HB3	79:q3:37:TYR:CE2	2.49	0.47
1:2:7:G:O6	4:S2:205:ARG:NH2	2.49	0.47
1:2:195:G:H2'	1:2:196:G:H5'	1.97	0.47
1:2:1433:G:C8	31:D9:41:GLN:HG2	2.50	0.47
4:S2:178:ILE:HD13	4:S2:188:LEU:HB3	1.97	0.47
9:S7:11:GLN:HG3	9:S7:12:ALA:H	1.80	0.47
19:C7:18:GLU:HG3	19:C7:69:ILE:HG22	1.97	0.47
25:D3:59:ILE:HB	25:D3:69:ARG:HB2	1.97	0.47
26:D4:27:VAL:HG11	26:D4:35:VAL:CG2	2.44	0.47
28:D6:9:GLY:O	28:D6:10:ARG:HG3	2.15	0.47
36:1:119:U:C2	45:L8:138:HIS:CE1	3.03	0.47
36:1:667:C:O2'	49:M3:8:PRO:HG3	2.14	0.47
36:1:1571:A:H2'	36:1:1572:U:O4'	2.15	0.47
41:L4:315:LYS:HB2	41:L4:323:VAL:HG21	1.97	0.47
44:L7:25:GLN:HA	44:L7:29:GLU:H	1.80	0.47
45:L8:190:VAL:HG13	45:L8:192:GLN:HG2	1.97	0.47
64:N8:104:THR:HG21	64:N8:112:ILE:HD11	1.97	0.47
72:O6:9:ILE:O	72:O6:13:LYS:HB2	2.15	0.47
74:O8:62:ALA:O	74:O8:66:ILE:HG13	2.15	0.47
76:Q0:78:ILE:HG12	76:Q0:83:LYS:HD2	1.96	0.47
1:6:277:U:O2'	1:6:278:U:OP1	2.30	0.47
1:6:660:G:H2'	1:6:661:A:H4'	1.97	0.47
1:6:1270:G:O3'	33:e1:78:LYS:HB2	2.13	0.47
7:s5:36:ALA:HB1	7:s5:45:LYS:HD2	1.97	0.47
9:s7:24:PHE:HE1	9:s7:77:LEU:HD11	1.80	0.47
11:s9:157:ASP:OD1	11:s9:158:PHE:N	2.45	0.47
14:c2:57:ALA:O	14:c2:85:LYS:HE3	2.15	0.47
36:5:562:C:OP2	50:m4:77:ARG:NH1	2.46	0.47
36:5:976:U:P	54:m8:144:ARG:HH22	2.37	0.47
36:5:1239:C:H3'	36:5:1240:A:C8	2.50	0.47
36:5:3237:U:H2'	36:5:3238:G:O4'	2.15	0.47
38:8:21:C:OP1	41:l4:193:LYS:NZ	2.41	0.47
39:l2:68:LYS:CD	39:l2:70:ARG:HH21	2.26	0.47
47:m0:48:LEU:O	47:m0:139:ARG:HA	2.15	0.47
49:m3:47:ALA:CB	49:m3:48:PRO:HD2	2.41	0.47
57:n1:46:GLY:HA2	57:n1:52:MET:HE3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:15:LEU:HD22	59:n3:53:SER:HB3	1.97	0.47
59:n3:120:LYS:H	59:n3:137:VAL:HG22	1.80	0.47
65:n9:23:LYS:HB3	65:n9:24:PRO:CD	2.45	0.47
1:2:328:A:H2'	1:2:329:G:O4'	2.15	0.46
1:2:505:A:H2'	1:2:505:A:N3	2.29	0.46
1:2:560:U:H2'	1:2:561:G:H8	1.80	0.46
1:2:808:U:H2'	1:2:809:A:C8	2.50	0.46
3:S1:127:VAL:HG11	3:S1:176:VAL:HG21	1.98	0.46
6:S4:180:LEU:N	6:S4:229:GLY:O	2.47	0.46
7:S5:143:ARG:HD3	30:D8:55:VAL:HG11	1.98	0.46
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.80	0.46
36:1:107:A:H2'	36:1:108:A:O4'	2.15	0.46
36:1:1599:G:OP1	86:1:3618:OHX:N5	2.48	0.46
36:1:1683:A:OP2	58:N2:85:LYS:HE2	2.15	0.46
36:1:1764:U:O5'	36:1:1764:U:H6	1.98	0.46
36:1:1767:C:H2'	36:1:1768:U:C6	2.50	0.46
36:1:2401:A:O3'	41:L4:68:GLY:HA2	2.15	0.46
36:1:2592:G:H4'	36:1:2594:C:C2	2.51	0.46
36:1:3037:U:H2'	36:1:3038:U:C6	2.50	0.46
36:1:3134:A:OP1	86:1:3438:OHX:N4	2.48	0.46
41:L4:52:VAL:HG11	41:L4:99:MET:HE3	1.97	0.46
43:L6:130:ILE:HG21	43:L6:135:VAL:HG23	1.97	0.46
49:M3:136:GLU:HG3	49:M3:136:GLU:O	2.14	0.46
61:N5:57:LEU:HG	61:N5:62:VAL:HG22	1.96	0.46
62:N6:59:VAL:C	62:N6:64:LYS:HD2	2.40	0.46
70:O4:74:ARG:NH1	70:O4:82:ALA:HB2	2.30	0.46
76:Q0:115:CYS:SG	76:Q0:118:THR:HG22	2.55	0.46
1:6:331:A:H4'	10:s8:31:ARG:O	2.14	0.46
1:6:894:U:H2'	1:6:895:G:C8	2.50	0.46
1:6:906:A:H2'	1:6:907:A:C8	2.50	0.46
2:s0:34:GLU:N	2:s0:35:PRO:HD2	2.31	0.46
2:s0:52:LYS:NZ	23:d1:82:VAL:O	2.40	0.46
2:s0:54:TRP:O	2:s0:58:VAL:HG23	2.14	0.46
17:c5:60:LEU:HD23	17:c5:76:VAL:HG21	1.97	0.46
17:c5:129:GLY:O	17:c5:130:ARG:HB2	2.14	0.46
18:c6:29:ILE:HA	18:c6:65:ILE:HB	1.98	0.46
19:c7:71:PHE:CE1	19:c7:74:GLN:HB2	2.50	0.46
21:c9:33:TYR:O	21:c9:35:ASP:N	2.48	0.46
21:c9:77:ASN:HB3	21:c9:95:ASP:HB3	1.97	0.46
22:d0:20:ILE:HG22	22:d0:21:LYS:H	1.79	0.46
34:sR:14:GLU:HB3	34:sR:309:VAL:CG1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:123:ILE:HD11	34:sR:156:VAL:HG23	1.96	0.46
36:5:209:A:H4'	36:5:211:A:N7	2.29	0.46
36:5:437:G:H22	36:5:622:A:N6	2.11	0.46
36:5:594:U:C5'	36:5:609:G:H1	2.27	0.46
36:5:2426:U:H2'	36:5:2427:U:C6	2.49	0.46
37:7:22:A:N1	42:l5:269:SER:O	2.48	0.46
40:l3:62:ARG:O	40:l3:68:HIS:HB2	2.15	0.46
41:l4:141:ARG:HD3	41:l4:141:ARG:HA	1.64	0.46
44:l7:83:LEU:HD22	44:l7:84:VAL:N	2.30	0.46
81:l8:122:LYS:C	81:l8:124:ASP:H	2.23	0.46
48:m1:9:MET:C	48:m1:11:ASP:H	2.23	0.46
49:m3:157:ARG:NH1	64:n8:146:GLU:OE2	2.48	0.46
59:n3:66:LYS:O	59:n3:70:ARG:HG3	2.15	0.46
61:n5:92:LYS:HE2	61:n5:112:THR:HG23	1.98	0.46
63:n7:36:HIS:HD2	63:n7:74:VAL:HG11	1.77	0.46
71:o5:21:LEU:HD21	71:o5:51:ILE:HG23	1.97	0.46
1:2:1178:G:H2'	1:2:1179:G:O4'	2.14	0.46
1:2:1370:U:O2'	1:2:1371:A:OP2	2.26	0.46
1:2:1378:U:H2'	1:2:1379:C:O4'	2.15	0.46
1:2:1413:U:H4'	1:2:1414:U:OP2	2.15	0.46
6:S4:15:PRO:HG2	6:S4:18:TRP:CE2	2.50	0.46
7:S5:47:SER:OG	7:S5:49:GLU:O	2.32	0.46
18:C6:31:VAL:HG12	18:C6:32:ASN:OD1	2.15	0.46
18:C6:42:GLU:HG2	18:C6:42:GLU:O	2.14	0.46
21:C9:52:GLY:C	21:C9:54:PHE:H	2.23	0.46
21:C9:118:PRO:HD2	21:C9:123:ARG:NH2	2.29	0.46
36:1:595:G:H2'	36:1:596:C:C6	2.50	0.46
36:1:2413:A:H2'	36:1:2414:G:C8	2.50	0.46
36:1:2992:U:H1'	53:M7:69:ARG:NH2	2.29	0.46
36:1:3200:G:O6	86:1:3657:OHX:N4	2.48	0.46
36:1:3338:C:H2'	36:1:3339:A:C8	2.50	0.46
39:L2:79:ASN:ND2	39:L2:166:ILE:O	2.47	0.46
40:L3:364:LYS:N	40:L3:364:LYS:HD2	2.31	0.46
48:M1:148:VAL:CG1	48:M1:152:HIS:HB3	2.44	0.46
49:M3:14:PHE:HB3	49:M3:18:TRP:CD1	2.51	0.46
56:N0:24:LEU:O	57:N1:148:PRO:HA	2.15	0.46
64:N8:60:TYR:CG	64:N8:63:LYS:HB2	2.51	0.46
68:O2:2:ALA:O	68:O2:90:LYS:HG2	2.15	0.46
69:O3:103:TYR:HA	69:O3:104:PRO:C	2.40	0.46
1:6:176:C:OP1	86:6:1951:OHX:N6	2.47	0.46
1:6:959:U:H5"	15:c3:15:ALA:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:48:VAL:HG22	3:s1:64:ARG:NH2	2.30	0.46
6:s4:77:ARG:HD2	6:s4:82:TYR:CE1	2.51	0.46
11:s9:114:TYR:HA	11:s9:119:ALA:HB3	1.97	0.46
17:c5:33:PHE:O	17:c5:36:LEU:HD22	2.14	0.46
28:d6:20:PRO:HA	28:d6:31:PRO:HA	1.97	0.46
33:e1:77:GLY:HA2	33:e1:78:LYS:HA	1.61	0.46
80:sM:48:ARG:HG2	80:sM:50:ASN:ND2	2.30	0.46
36:5:29:C:H4'	36:5:62:A:H4'	1.98	0.46
36:5:643:U:O2'	36:5:1153:A:N1	2.45	0.46
36:5:1157:G:H2'	36:5:1158:A:O4'	2.15	0.46
36:5:1307:G:H1'	36:5:1308:A:C8	2.49	0.46
36:5:2442:G:H22	36:5:2506:U:H3	1.63	0.46
36:5:2840:C:H2'	36:5:2841:G:O4'	2.14	0.46
36:5:3273:A:C2'	36:5:3274:A:H5'	2.44	0.46
86:5:3587:OHX:N5	37:7:102:A:OP1	2.48	0.46
38:8:6:U:H2'	38:8:7:U:C6	2.50	0.46
38:8:15:G:C6	38:8:16:G:N1	2.83	0.46
40:l3:183:LEU:HD12	40:l3:183:LEU:HA	1.77	0.46
44:l7:156:ILE:O	44:l7:159:GLN:HB2	2.15	0.46
46:l9:43:VAL:HG22	46:l9:55:VAL:HG12	1.96	0.46
47:m0:41:ALA:O	47:m0:139:ARG:NH2	2.41	0.46
59:n3:128:ARG:HB3	59:n3:128:ARG:NH2	2.30	0.46
61:n5:46:TYR:HB2	71:o5:76:GLN:C	2.40	0.46
62:n6:83:ASP:O	62:n6:84:LYS:HB2	2.15	0.46
69:o3:54:ARG:NH1	69:o3:64:ILE:HD11	2.30	0.46
79:q3:73:THR:HB	79:q3:76:ALA:H	1.79	0.46
1:2:130:C:O2'	1:2:131:C:OP1	2.28	0.46
1:2:274:G:H3'	1:2:275:C:C6	2.50	0.46
1:2:470:A:OP2	86:2:1953:OHX:N2	2.48	0.46
1:2:589:C:H2'	1:2:590:C:H6	1.81	0.46
1:2:958:U:OP2	29:D7:20:LYS:HE3	2.16	0.46
1:2:1504:G:C6	1:2:1505:A:C6	3.03	0.46
3:S1:70:LEU:HA	3:S1:73:LEU:HG	1.97	0.46
3:S1:110:LEU:O	3:S1:113:MET:N	2.48	0.46
7:S5:44:ASN:OD1	7:S5:70:VAL:HG12	2.16	0.46
11:S9:34:PHE:CE1	11:S9:105:LEU:HB3	2.50	0.46
13:C1:75:VAL:HG22	13:C1:84:ILE:HD12	1.97	0.46
28:D6:24:VAL:HG12	28:D6:72:HIS:O	2.15	0.46
34:SR:150:TRP:HB2	34:SR:174:ASN:HB2	1.97	0.46
36:1:147:U:O4	45:L8:157:VAL:HA	2.15	0.46
36:1:789:A:H2'	36:1:790:U:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2339:C:P	59:N3:48:ARG:HG3	2.56	0.46
36:1:2357:A:H2'	36:1:2358:A:H8	1.77	0.46
86:1:3406:OHX:N1	73:O7:46:SER:OG	2.49	0.46
41:L4:208:VAL:O	41:L4:251:THR:HG23	2.15	0.46
41:L4:300:ARG:HG2	54:M8:39:ARG:O	2.15	0.46
46:L9:134:ILE:HD11	46:L9:146:LEU:HD23	1.96	0.46
48:M1:55:ARG:O	48:M1:55:ARG:HG2	2.15	0.46
52:M6:102:LEU:HD12	52:M6:103:LYS:N	2.30	0.46
56:N0:45:LEU:HD12	56:N0:51:VAL:HG21	1.97	0.46
64:N8:7:LYS:HA	64:N8:7:LYS:HD3	1.72	0.46
1:6:979:A:H2'	1:6:980:G:O4'	2.15	0.46
11:s9:113:VAL:HG21	11:s9:134:ILE:HG21	1.98	0.46
23:d1:16:LYS:HD2	23:d1:21:ASN:O	2.16	0.46
31:d9:6:VAL:O	31:d9:7:TRP:CG	2.68	0.46
34:sR:66:HIS:HB3	34:sR:85:TRP:HB2	1.97	0.46
36:5:422:A:C2	36:5:2363:A:H4'	2.51	0.46
36:5:612:U:H2'	36:5:613:G:H8	1.80	0.46
36:5:1508:C:OP1	53:m7:127:ARG:NH2	2.46	0.46
36:5:2541:U:H4'	36:5:2542:U:OP1	2.15	0.46
38:8:91:C:H2'	38:8:92:A:C8	2.50	0.46
38:8:155:A:H2'	38:8:156:U:O4'	2.16	0.46
40:l3:44:THR:HG23	40:l3:184:ASN:HB2	1.97	0.46
47:m0:210:ILE:HA	47:m0:217:PHE:HE2	1.78	0.46
48:m1:49:LYS:HB3	48:m1:62:ASN:HA	1.97	0.46
55:m9:4:LEU:HA	55:m9:7:GLN:HG2	1.97	0.46
70:o4:72:VAL:HG22	70:o4:77:GLY:O	2.15	0.46
72:o6:43:LEU:O	72:o6:47:ILE:HG13	2.15	0.46
1:2:213:A:H2'	1:2:214:G:O4'	2.15	0.46
1:2:1584:G:C8	18:C6:122:ARG:HB3	2.50	0.46
14:C2:89:ILE:HG12	14:C2:90:LYS:H	1.81	0.46
20:C8:41:ARG:NH1	21:C9:38:LYS:HG3	2.30	0.46
20:C8:127:HIS:CE1	20:C8:133:VAL:HG21	2.50	0.46
30:D8:66:LEU:HD23	30:D8:66:LEU:HA	1.73	0.46
34:SR:44:SER:O	34:SR:58:VAL:HG22	2.15	0.46
36:1:748:U:H2'	36:1:749:C:C6	2.50	0.46
36:1:1064:A:H5"	36:1:1066:G:O4'	2.16	0.46
36:1:2093:A:H3'	36:1:2093:A:N3	2.31	0.46
36:1:3364:C:OP1	86:1:3466:OHX:N5	2.49	0.46
41:L4:271:LYS:HB2	41:L4:274:TYR:HB3	1.97	0.46
42:L5:60:ILE:HB	42:L5:80:SER:CB	2.46	0.46
46:L9:43:VAL:HG12	46:L9:57:VAL:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:122:LYS:HG3	46:L9:123:ILE:N	2.30	0.46
47:M0:193:ASP:OD2	47:M0:194:GLY:N	2.49	0.46
49:M3:124:ILE:O	49:M3:124:ILE:HG12	2.14	0.46
54:M8:83:VAL:O	54:M8:103:ALA:HA	2.15	0.46
65:N9:29:TYR:CD1	65:N9:29:TYR:N	2.82	0.46
1:6:206:A:OP2	86:6:1984:OHX:N4	2.48	0.46
1:6:482:U:H2'	1:6:483:A:C8	2.51	0.46
1:6:1057:U:H3	1:6:1062:A:N6	2.11	0.46
1:6:1323:C:OP2	86:6:1959:OHX:N5	2.48	0.46
2:s0:189:VAL:HG22	2:s0:190:ASP:H	1.80	0.46
7:s5:161:ASP:OD2	30:d8:42:ARG:NH1	2.48	0.46
8:s6:67:VAL:HG23	8:s6:68:LEU:O	2.15	0.46
23:d1:74:GLN:OE1	23:d1:83:TRP:N	2.49	0.46
34:sR:195:HIS:HE2	34:sR:213:SER:HG	1.60	0.46
36:5:1213:G:H4'	56:n0:90:MET:HG2	1.97	0.46
36:5:1383:G:O6	86:5:3438:OHX:N6	2.49	0.46
36:5:1699:A:H2'	36:5:1700:G:H8	1.79	0.46
36:5:3325:G:H5'	67:o1:104:LEU:O	2.15	0.46
40:l3:116:ARG:HD3	40:l3:122:TRP:CG	2.50	0.46
41:l4:11:LEU:HD13	41:l4:159:ILE:HD11	1.98	0.46
41:l4:152:VAL:HG11	41:l4:156:LEU:HD12	1.97	0.46
81:l8:41:GLN:HG3	81:l8:44:ARG:HH12	1.80	0.46
81:l8:81:THR:OG1	81:l8:181:LYS:HB2	2.15	0.46
57:n1:14:MET:HE1	57:n1:55:LYS:CB	2.45	0.46
57:n1:71:SER:HB3	57:n1:92:ARG:HA	1.97	0.46
57:n1:101:CYS:SG	57:n1:102:ARG:N	2.88	0.46
1:2:1165:G:C6	1:2:1166:A:C6	3.04	0.46
1:2:1765:A:H5'	1:2:1767:G:N7	2.30	0.46
2:S0:168:HIS:O	2:S0:172:LEU:N	2.41	0.46
10:S8:34:ALA:HB2	10:S8:56:ARG:HG3	1.98	0.46
12:C0:46:LEU:O	12:C0:50:THR:N	2.47	0.46
14:C2:32:LEU:HB3	14:C2:41:LEU:HD11	1.97	0.46
21:C9:5:SER:HA	21:C9:133:ASP:OD1	2.14	0.46
36:1:138:U:H2'	36:1:139:G:C8	2.51	0.46
36:1:1767:C:H2'	36:1:1768:U:H6	1.81	0.46
47:M0:162:GLN:HE22	56:N0:85:SER:HB3	1.80	0.46
55:M9:10:LEU:HD12	55:M9:10:LEU:HA	1.78	0.46
63:N7:46:ILE:HD11	63:N7:48:ARG:C	2.40	0.46
74:O8:5:ILE:HG22	74:O8:54:LEU:HB2	1.97	0.46
1:6:729:G:O2'	1:6:730:G:O5'	2.31	0.46
1:6:778:G:O6	26:d4:10:ARG:HD2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1006:C:OP1	86:6:1908:OHX:N3	2.49	0.46
1:6:1117:U:H2'	1:6:1118:G:C8	2.50	0.46
1:6:1341:A:OP1	34:sR:63:GLY:HA2	2.15	0.46
1:6:1402:G:OP1	19:c7:4:VAL:HA	2.16	0.46
1:6:1495:C:OP1	86:6:1965:OHX:N4	2.49	0.46
4:s2:49:LYS:HD3	4:s2:49:LYS:HA	1.74	0.46
8:s6:30:LYS:O	8:s6:102:VAL:HG23	2.16	0.46
11:s9:133:HIS:CD2	11:s9:162:SER:HB2	2.50	0.46
20:c8:5:VAL:O	27:d5:42:LEU:HB2	2.16	0.46
23:d1:85:TYR:CD1	29:d7:6:ASP:HB2	2.50	0.46
29:d7:61:THR:O	29:d7:62:ILE:HB	2.14	0.46
80:sM:64:LYS:C	80:sM:66:ALA:N	2.73	0.46
36:5:434:U:O4	86:5:3622:OHX:N4	2.49	0.46
36:5:1054:A:H5"	36:5:2637:A:H61	1.81	0.46
36:5:2525:G:H4'	81:l8:49:TYR:OH	2.15	0.46
36:5:2533:G:H2'	36:5:2534:G:C8	2.51	0.46
41:l4:295:ILE:O	41:l4:299:ILE:HG12	2.16	0.46
42:l5:88:ILE:HD13	42:l5:240:TYR:CE1	2.51	0.46
55:m9:171:ASP:OD1	55:m9:171:ASP:N	2.49	0.46
66:o0:10:ILE:HD12	66:o0:10:ILE:HA	1.74	0.46
70:o4:25:THR:OG1	70:o4:29:ILE:HG22	2.15	0.46
72:o6:40:VAL:O	72:o6:44:VAL:HG23	2.16	0.46
1:2:94:U:H4'	6:S4:6:LYS:HA	1.98	0.46
1:2:237:C:H5"	1:2:238:U:H5'	1.98	0.46
1:2:817:A:H2'	1:2:818:C:O4'	2.15	0.46
1:2:1142:A:H5"	28:D6:2:PRO:HB3	1.97	0.46
1:2:1321:A:OP2	2:S0:101:ARG:NH2	2.44	0.46
1:2:1518:C:OP2	86:2:1993:OHX:N2	2.48	0.46
1:2:1798:U:C6	28:D6:97:PRO:HB3	2.51	0.46
2:S0:168:HIS:O	2:S0:172:LEU:HB2	2.15	0.46
3:S1:70:LEU:HD12	3:S1:82:ARG:O	2.16	0.46
6:S4:31:PRO:HG3	6:S4:43:PRO:HG3	1.98	0.46
7:S5:51:VAL:O	7:S5:51:VAL:HG22	2.16	0.46
24:D2:30:SER:O	24:D2:31:SER:HB3	2.14	0.46
24:D2:105:THR:HG23	24:D2:110:ILE:HG12	1.98	0.46
36:1:346:C:C2	36:1:348:A:N7	2.84	0.46
36:1:708:G:H8	36:1:708:G:H5"	1.80	0.46
36:1:713:U:O2'	36:1:754:G:OP1	2.31	0.46
36:1:2367:A:H2'	36:1:2368:A:H8	1.79	0.46
36:1:3182:G:H2'	36:1:3183:A:O4'	2.16	0.46
52:M6:12:LYS:HD3	52:M6:37:ARG:NH2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:13:THR:CG2	67:O1:72:ARG:HH11	2.29	0.46
69:O3:16:TYR:OH	69:O3:91:ALA:HB2	2.15	0.46
70:O4:22:VAL:HG13	70:O4:30:LEU:HD22	1.97	0.46
1:6:647:G:H8	1:6:647:G:O5'	1.99	0.46
1:6:980:G:N7	86:6:1910:OHX:N4	2.63	0.46
1:6:1010:C:OP2	86:6:1974:OHX:N6	2.49	0.46
2:s0:92:HIS:HD1	2:s0:92:HIS:H	1.63	0.46
4:s2:141:ARG:HB2	4:s2:151:PRO:HB2	1.97	0.46
5:s3:11:LEU:HD12	22:d0:86:ILE:HG12	1.97	0.46
6:s4:46:VAL:O	6:s4:50:ASN:HB2	2.15	0.46
6:s4:86:PHE:HE2	6:s4:102:VAL:HG23	1.81	0.46
13:c1:94:ILE:HG12	25:d3:16:ARG:HD3	1.97	0.46
18:c6:109:PHE:O	18:c6:113:ASP:N	2.48	0.46
28:d6:44:ILE:HG13	28:d6:67:THR:HG22	1.96	0.46
33:e1:98:VAL:O	33:e1:99:LYS:HG2	2.16	0.46
33:e1:119:ARG:O	33:e1:132:LEU:N	2.47	0.46
34:sR:134:TRP:CZ3	34:sR:140:CYS:HB2	2.50	0.46
80:sM:34:LYS:HD3	80:sM:34:LYS:HA	1.57	0.46
36:5:118:U:O2	36:5:121:A:H5'	2.15	0.46
36:5:1334:U:OP1	44:l7:206:LYS:HB3	2.15	0.46
36:5:1345:G:N7	86:5:3567:OHX:N2	2.63	0.46
36:5:1370:G:H5"	64:n8:18:GLY:O	2.15	0.46
36:5:1387:G:OP1	86:5:3693:OHX:N1	2.48	0.46
36:5:2513:U:O2'	36:5:2592:G:N1	2.34	0.46
36:5:3102:G:O6	86:5:3415:OHX:N4	2.48	0.46
44:l7:157:ASN:O	44:l7:159:GLN:HG2	2.16	0.46
48:m1:96:PHE:CD1	48:m1:160:VAL:HG23	2.50	0.46
49:m3:61:PRO:HD3	49:m3:70:ARG:HH21	1.79	0.46
53:m7:41:LEU:HD21	53:m7:95:LEU:HD22	1.98	0.46
1:2:66:U:OP1	8:S6:136:LYS:NZ	2.43	0.46
1:2:830:U:O2'	1:2:831:U:H6	1.99	0.46
1:2:932:U:H4'	1:2:933:A:O4'	2.14	0.46
1:2:987:G:N1	39:L2:249:SER:HB2	2.31	0.46
1:2:1015:U:OP1	86:2:1923:OHX:N5	2.49	0.46
1:2:1346:A:H8	1:2:1370:U:O2	1.98	0.46
4:S2:91:ARG:HE	4:S2:91:ARG:HB3	1.44	0.46
7:S5:99:MET:O	7:S5:100:ASN:HB2	2.16	0.46
18:C6:50:GLU:OE1	18:C6:112:TYR:OH	2.28	0.46
20:C8:88:ARG:CZ	20:C8:108:LYS:HE2	2.45	0.46
34:SR:50:ASP:HB2	34:SR:53:LYS:O	2.16	0.46
34:SR:117:LYS:HD2	34:SR:117:LYS:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:201:THR:HB	34:SR:241:PHE:O	2.16	0.46
36:1:670:C:P	54:M8:147:ARG:HH22	2.39	0.46
36:1:1073:U:H1'	65:N9:50:THR:HG22	1.97	0.46
36:1:1333:C:H5'	44:L7:111:ILE:HG22	1.98	0.46
36:1:2743:A:H2'	36:1:2744:U:O4'	2.16	0.46
38:4:143:U:OP1	51:M5:38:ARG:NH2	2.49	0.46
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.51	0.46
53:M7:60:PHE:CE2	53:M7:82:ARG:HB2	2.51	0.46
66:O0:40:LYS:HB3	66:O0:101:LEU:HD21	1.97	0.46
1:6:458:G:OP1	26:d4:109:LYS:HE2	2.15	0.46
1:6:639:U:H1'	1:6:640:U:C5	2.51	0.46
1:6:832:U:H2'	1:6:833:U:O4'	2.16	0.46
1:6:1688:U:H2'	1:6:1689:A:C8	2.51	0.46
7:s5:101:GLY:HA2	7:s5:104:ASN:CG	2.41	0.46
11:s9:171:ARG:HH11	11:s9:174:ARG:HB3	1.80	0.46
13:c1:7:VAL:C	13:c1:9:SER:H	2.23	0.46
27:d5:43:ASP:C	27:d5:45:GLU:H	2.23	0.46
29:d7:47:PHE:HE1	29:d7:49:HIS:HB2	1.79	0.46
34:sR:114:ASP:OD1	34:sR:115:ILE:N	2.47	0.46
36:5:135:C:O5'	36:5:135:C:H6	1.98	0.46
36:5:508:U:H2'	36:5:509:U:C6	2.51	0.46
36:5:835:G:O2'	36:5:857:G:N2	2.36	0.46
36:5:908:G:H3'	51:m5:81:TYR:OH	2.14	0.46
36:5:1282:G:H2'	36:5:1283:C:O4'	2.15	0.46
36:5:1483:G:C8	36:5:1485:G:C8	3.04	0.46
36:5:1500:G:H2'	36:5:1501:U:O4'	2.16	0.46
36:5:1831:U:P	61:n5:92:LYS:HG3	2.56	0.46
36:5:2523:A:C8	81:l8:51:LYS:HB2	2.51	0.46
36:5:2608:G:C2	36:5:2609:A:C8	3.04	0.46
40:l3:14:LEU:HD13	40:l3:262:TRP:CH2	2.51	0.46
40:l3:187:SER:O	40:l3:190:GLU:N	2.49	0.46
40:l3:339:ARG:HH12	40:l3:342:LEU:HD11	1.80	0.46
41:l4:26:PHE:HD1	41:l4:130:ALA:HB2	1.79	0.46
41:l4:131:VAL:O	41:l4:135:VAL:HG23	2.15	0.46
41:l4:354:VAL:HG11	57:n1:143:THR:HG21	1.97	0.46
42:l5:270:LYS:HE2	42:l5:273:ARG:HA	1.97	0.46
49:m3:167:PHE:CD1	64:n8:132:LYS:HG3	2.51	0.46
52:m6:98:ALA:HA	52:m6:101:ARG:NH1	2.30	0.46
64:n8:77:LYS:C	64:n8:79:TRP:H	2.21	0.46
65:n9:11:ASN:OD1	65:n9:14:ARG:HD3	2.16	0.46
74:o8:46:ARG:NH1	74:o8:47:GLY:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:323:A:OP2	10:S8:10:LYS:HA	2.15	0.46
1:2:603:U:H2'	1:2:604:A:C8	2.50	0.46
1:2:682:C:H2'	1:2:683:C:O4'	2.15	0.46
1:2:894:U:H2'	1:2:895:G:C8	2.51	0.46
1:2:1110:G:N2	1:2:1136:U:H1'	2.30	0.46
1:2:1244:A:HO2'	1:2:1245:G:P	2.38	0.46
1:2:1521:G:O6	21:C9:68:ARG:NH1	2.49	0.46
3:S1:131:ASP:HB3	3:S1:180:THR:CG2	2.46	0.46
8:S6:61:PHE:CE1	8:S6:96:SER:HB2	2.50	0.46
10:S8:197:THR:HA	10:S8:200:LYS:HB2	1.98	0.46
21:C9:49:ASP:CB	21:C9:53:TRP:HB3	2.46	0.46
36:1:8:C:H2'	36:1:9:U:O4'	2.16	0.46
36:1:394:G:N1	36:1:397:A:OP2	2.43	0.46
36:1:706:A:H4'	36:1:781:G:O2'	2.16	0.46
36:1:1038:C:H4'	42:L5:5:LYS:HZ1	1.81	0.46
36:1:1941:C:O2'	36:1:3344:A:N6	2.49	0.46
36:1:2180:G:H2'	36:1:2181:C:C6	2.50	0.46
36:1:2943:G:H2'	36:1:2944:U:O4'	2.16	0.46
39:L2:64:ARG:HH12	45:L8:38:GLN:HA	1.79	0.46
42:L5:20:PHE:HD1	42:L5:30:TYR:CE1	2.34	0.46
46:L9:94:TYR:CE2	46:L9:98:PRO:HA	2.51	0.46
48:M1:20:ASN:HD22	48:M1:126:ASP:HB2	1.81	0.46
55:M9:105:LEU:HD12	55:M9:135:LYS:HD2	1.97	0.46
71:O5:96:GLU:H	71:O5:96:GLU:HG3	1.43	0.46
73:O7:8:PHE:O	73:O7:11:ARG:HG3	2.16	0.46
1:6:1209:C:H5"	33:e1:77:GLY:HA3	1.97	0.46
1:6:1557:U:OP2	1:6:1559:A:O2'	2.25	0.46
1:6:1568:C:H6	1:6:1568:C:H2'	1.59	0.46
1:6:1579:U:H2'	1:6:1580:C:C6	2.50	0.46
1:6:1696:G:N2	1:6:1704:U:H3	2.14	0.46
3:s1:131:ASP:OD1	3:s1:131:ASP:N	2.36	0.46
8:s6:98:ARG:NH1	8:s6:105:ASP:OD2	2.48	0.46
23:d1:44:ARG:H	23:d1:44:ARG:HD3	1.81	0.46
32:e0:39:LEU:O	32:e0:43:ARG:HB2	2.16	0.46
36:5:495:G:H2'	36:5:496:C:O4'	2.15	0.46
36:5:2163:C:H4'	39:l2:7:ASN:O	2.16	0.46
36:5:3192:U:H2'	36:5:3193:C:C6	2.50	0.46
36:5:3366:G:H2'	36:5:3367:C:C6	2.50	0.46
37:7:4:U:H2'	37:7:5:G:C8	2.51	0.46
38:8:38:U:C5	71:o5:82:ALA:O	2.68	0.46
41:l4:191:LYS:HG3	41:l4:194:TYR:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:l8:134:TYR:CD2	81:l8:190:VAL:HG11	2.51	0.46
81:l8:238:LEU:HB3	81:l8:242:ALA:HB3	1.97	0.46
49:m3:161:ASP:OD1	64:n8:139:ARG:NH1	2.49	0.46
59:n3:79:VAL:HB	59:n3:118:VAL:HG22	1.97	0.46
71:o5:76:GLN:O	71:o5:81:ARG:NH1	2.48	0.46
72:o6:26:ILE:H	72:o6:26:ILE:HG13	1.47	0.46
78:q2:40:LYS:HE3	78:q2:44:ASP:OD2	2.16	0.46
1:2:1:U:O2	1:2:369:A:H2'	2.15	0.46
1:2:1689:A:H2'	1:2:1690:G:H8	1.81	0.46
2:S0:124:THR:HG22	2:S0:174:TRP:HE1	1.81	0.46
3:S1:89:ASP:N	3:S1:89:ASP:OD1	2.48	0.46
3:S1:128:LYS:HG3	3:S1:134:VAL:HG22	1.98	0.46
4:S2:234:PRO:O	4:S2:235:LEU:HB2	2.16	0.46
11:S9:134:ILE:HA	11:S9:157:ASP:O	2.16	0.46
13:C1:109:VAL:HG21	13:C1:125:VAL:CG2	2.46	0.46
14:C2:29:LYS:HE2	14:C2:100:TRP:CD1	2.51	0.46
14:C2:31:VAL:HG23	14:C2:132:GLU:HB2	1.98	0.46
19:C7:105:GLN:CD	19:C7:105:GLN:H	2.22	0.46
25:D3:42:PRO:O	25:D3:79:ASN:ND2	2.48	0.46
26:D4:18:LEU:HD23	26:D4:18:LEU:HA	1.77	0.46
36:1:53:G:P	73:O7:48:ASN:HD22	2.39	0.46
36:1:373:A:N1	36:1:394:G:H4'	2.31	0.46
36:1:781:G:N7	86:1:3478:OHX:N5	2.63	0.46
36:1:1915:A:H2'	36:1:1916:U:H6	1.81	0.46
36:1:2206:G:H8	36:1:2206:G:OP2	1.99	0.46
36:1:2900:A:C4	36:1:2901:G:C8	3.04	0.46
36:1:2998:U:O4	86:1:3641:OHX:N1	2.49	0.46
86:1:3614:OHX:N2	72:O6:28:TYR:O	2.49	0.46
41:L4:309:ARG:NH2	41:L4:312:VAL:HB	2.31	0.46
42:L5:85:ARG:NH2	42:L5:254:LYS:H	2.14	0.46
42:L5:110:LEU:HD13	42:L5:171:LEU:HD23	1.98	0.46
51:M5:35:VAL:O	51:M5:64:VAL:HA	2.15	0.46
59:N3:87:ARG:HH22	59:N3:137:VAL:HG22	1.80	0.46
1:6:330:G:H2'	1:6:331:A:C8	2.51	0.46
1:6:885:G:O6	86:6:2008:OHX:N2	2.49	0.46
3:s1:142:PHE:O	3:s1:207:LEU:HA	2.15	0.46
16:c4:62:LEU:HA	16:c4:65:GLN:HG3	1.97	0.46
18:c6:52:LEU:HA	18:c6:60:PHE:CE1	2.51	0.46
18:c6:92:TYR:CE1	18:c6:96:TYR:HD2	2.33	0.46
36:5:281:G:C6	36:5:282:G:C6	3.03	0.46
36:5:306:A:C2	36:5:2784:G:H1'	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:668:G:OP1	86:5:3640:OHX:N1	2.49	0.46
36:5:1262:G:H5"	36:5:1263:A:OP2	2.16	0.46
38:8:67:U:O4	86:8:213:OHX:N3	2.49	0.46
40:l3:167:ARG:O	86:l3:401:OHX:N5	2.49	0.46
41:l4:90:PHE:O	41:l4:94:CYS:HB2	2.16	0.46
44:l7:110:ARG:NH2	54:m8:3:ILE:HD12	2.31	0.46
51:m5:68:ARG:HB3	51:m5:126:THR:O	2.15	0.46
58:n2:54:VAL:HG13	58:n2:67:SER:HB2	1.97	0.46
66:o0:41:LEU:HD22	66:o0:42:ILE:N	2.31	0.46
1:2:848:C:H2'	1:2:849:C:H6	1.80	0.46
1:2:1335:U:H2'	1:2:1336:A:C8	2.51	0.46
3:S1:49:ASN:O	3:S1:57:ALA:HB2	2.16	0.46
3:S1:71:ALA:HB2	3:S1:79:HIS:C	2.41	0.46
7:S5:162:VAL:HG23	7:S5:166:ARG:HB3	1.98	0.46
14:C2:73:LYS:HG2	33:E1:108:VAL:HG11	1.98	0.46
21:C9:57:ARG:NH2	21:C9:80:TYR:HB3	2.23	0.46
34:SR:272:ASP:OD1	34:SR:273:ASP:N	2.49	0.46
36:1:207:U:H2'	36:1:208:C:H6	1.81	0.46
36:1:1017:C:O2'	36:1:1018:G:P	2.74	0.46
36:1:1596:C:H2'	36:1:1597:C:C6	2.51	0.46
36:1:2523:A:O2'	45:L8:49:TYR:O	2.26	0.46
39:L2:50:HIS:HB2	79:Q3:51:ALA:HB1	1.98	0.46
46:L9:20:ILE:HG23	46:L9:25:VAL:HG22	1.98	0.46
51:M5:16:SER:HB2	72:O6:48:ALA:HB1	1.98	0.46
54:M8:58:ASN:C	54:M8:60:PRO:HD3	2.41	0.46
57:N1:14:MET:HB3	57:N1:14:MET:HE2	1.53	0.46
61:N5:109:LYS:HB2	61:N5:109:LYS:HE3	1.41	0.46
1:6:56:U:O4	1:6:92:A:H4'	2.16	0.46
2:s0:9:LEU:HD21	2:s0:14:ALA:HB2	1.98	0.46
11:s9:74:ASN:O	11:s9:78:ARG:HB3	2.15	0.46
11:s9:93:LEU:O	11:s9:96:VAL:HG22	2.16	0.46
16:c4:87:GLY:HA2	16:c4:92:LYS:HD3	1.98	0.46
23:d1:5:LYS:O	23:d1:5:LYS:HG2	2.14	0.46
25:d3:130:VAL:HG21	25:d3:135:LEU:HD21	1.98	0.46
36:5:39:A:H5"	64:n8:35:ALA:HB2	1.97	0.46
36:5:173:G:H1'	36:5:174:C:H5'	1.98	0.46
36:5:999:G:C6	36:5:1000:C:N4	2.84	0.46
36:5:1566:A:H2'	36:5:1567:U:H5'	1.98	0.46
36:5:1798:A:H2'	36:5:1799:A:C8	2.51	0.46
86:5:3479:OHX:N6	86:5:3691:OHX:N3	2.64	0.46
37:7:44:C:H4'	42:l5:152:ARG:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:42:ARG:HG3	39:l2:89:TYR:CE1	2.51	0.46
42:l5:83:LEU:HB3	42:l5:88:ILE:HB	1.98	0.46
46:l9:167:VAL:HG12	46:l9:170:LYS:HB2	1.98	0.46
47:m0:193:ASP:CG	47:m0:198:LYS:HE3	2.41	0.46
48:m1:80:LEU:HD22	48:m1:84:LEU:HG	1.98	0.46
55:m9:6:THR:HG22	55:m9:10:LEU:HD22	1.97	0.46
55:m9:24:LEU:HD22	55:m9:50:ILE:HG12	1.98	0.46
57:n1:96:ILE:HD13	57:n1:96:ILE:HA	1.72	0.46
58:n2:50:LEU:H	58:n2:50:LEU:HG	1.51	0.46
61:n5:103:TYR:O	61:n5:105:VAL:HG23	2.16	0.46
62:n6:57:LEU:HD13	62:n6:59:VAL:HG12	1.97	0.46
69:o3:73:ARG:HH21	69:o3:82:ARG:NH2	2.13	0.46
1:2:144:U:H5	8:S6:137:ARG:HH12	1.65	0.45
1:2:1553:G:HO2'	31:D9:14:TYR:HH	1.55	0.45
7:S5:166:ARG:O	7:S5:170:GLN:HB2	2.16	0.45
26:D4:3:ASP:C	26:D4:5:VAL:H	2.23	0.45
27:D5:55:PRO:C	27:D5:57:TYR:H	2.24	0.45
33:E1:135:HIS:ND1	33:E1:138:ARG:HD2	2.31	0.45
34:SR:167:VAL:HG12	34:SR:183:LEU:HD12	1.97	0.45
36:1:1447:G:H3'	53:M7:67:ILE:CD1	2.46	0.45
36:1:1794:G:H4'	39:L2:191:LEU:HD13	1.98	0.45
36:1:2190:U:C4	36:1:2191:U:C4	3.03	0.45
36:1:2683:U:H2'	36:1:2684:C:H6	1.81	0.45
36:1:3041:U:OP1	59:N3:12:ARG:NH1	2.49	0.45
40:L3:92:TYR:O	40:L3:155:ALA:HA	2.16	0.45
41:L4:52:VAL:CG1	41:L4:99:MET:HE3	2.45	0.45
44:L7:159:GLN:O	44:L7:160:ARG:C	2.58	0.45
45:L8:246:MET:HE3	45:L8:246:MET:HB2	1.83	0.45
46:L9:101:VAL:HG22	46:L9:114:VAL:HG22	1.97	0.45
53:M7:51:VAL:HA	53:M7:56:ARG:O	2.17	0.45
56:N0:115:ARG:N	56:N0:115:ARG:HD2	2.31	0.45
57:N1:157:GLU:HB3	57:N1:159:PHE:CE1	2.52	0.45
62:N6:99:LEU:HD13	62:N6:104:LEU:HD21	1.98	0.45
71:O5:92:LEU:HB3	71:O5:96:GLU:O	2.16	0.45
72:O6:58:ILE:HA	72:O6:61:ILE:HD12	1.96	0.45
1:6:103:A:H4'	1:6:104:A:O5'	2.15	0.45
1:6:567:A:N1	1:6:583:C:H1'	2.30	0.45
1:6:1146:G:C4'	4:s2:89:GLN:HB3	2.46	0.45
1:6:1699:G:C2'	1:6:1700:C:H5'	2.46	0.45
36:5:71:A:C2	36:5:2778:G:H1'	2.51	0.45
36:5:1696:A:H4'	70:o4:23:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2425:G:H2'	36:5:2426:U:O4'	2.15	0.45
40:l3:27:ALA:HB2	40:l3:220:VAL:HG23	1.97	0.45
40:l3:232:ARG:HG2	40:l3:233:TRP:CD1	2.51	0.45
41:l4:4:PRO:HD2	41:l4:22:LEU:HB2	1.97	0.45
41:l4:91:GLY:HA3	41:l4:93:MET:HE1	1.99	0.45
41:l4:209:TYR:C	41:l4:254:ALA:HB2	2.41	0.45
42:l5:61:ILE:HG23	42:l5:79:TYR:CE1	2.51	0.45
43:l6:3:ALA:HB2	68:o2:77:ALA:HB2	1.97	0.45
44:l7:136:TYR:CE2	44:l7:231:ASN:HB2	2.51	0.45
46:l9:113:GLU:OE1	46:l9:115:ARG:NE	2.33	0.45
49:m3:74:GLY:O	49:m3:101:ARG:NH1	2.49	0.45
59:n3:66:LYS:HE2	59:n3:69:LEU:HD22	1.98	0.45
63:n7:58:GLY:O	63:n7:62:VAL:HG23	2.16	0.45
64:n8:46:ASP:O	64:n8:47:LYS:HB3	2.15	0.45
65:n9:23:LYS:HD3	65:n9:23:LYS:HA	1.77	0.45
73:o7:18:LEU:HA	73:o7:24:ARG:O	2.16	0.45
1:2:102:U:O4	1:2:360:A:H2'	2.16	0.45
1:2:694:U:O2	1:2:694:U:H2'	2.17	0.45
1:2:1469:A:H2'	1:2:1470:C:C6	2.51	0.45
1:2:1657:U:O4	86:2:1964:OHX:N6	2.49	0.45
2:S0:198:MET:SD	2:S0:199:PRO:HD2	2.56	0.45
4:S2:227:PRO:HA	4:S2:230:TRP:CD2	2.52	0.45
5:S3:101:GLN:HG3	5:S3:126:VAL:HG22	1.97	0.45
6:S4:180:LEU:HD22	6:S4:192:ILE:HG22	1.97	0.45
8:S6:154:ARG:HD2	8:S6:178:LEU:HD21	1.99	0.45
17:C5:20:VAL:HG12	17:C5:25:LEU:HG	1.98	0.45
17:C5:69:GLU:HG3	17:C5:70:ASN:H	1.80	0.45
28:D6:9:GLY:HA3	28:D6:34:LYS:HE2	1.98	0.45
36:1:77:A:OP2	49:M3:73:ARG:NH2	2.49	0.45
36:1:440:A:H8	36:1:440:A:OP2	1.99	0.45
36:1:1103:A:H2'	36:1:1103:A:N3	2.31	0.45
36:1:2247:G:OP1	86:1:3418:OHX:N3	2.50	0.45
36:1:2746:A:H2'	36:1:2747:A:O4'	2.16	0.45
36:1:2786:G:N7	86:1:3579:OHX:N1	2.65	0.45
36:1:3112:G:O2'	46:L9:70:THR:HB	2.15	0.45
40:L3:41:VAL:HA	40:L3:185:GLY:CA	2.31	0.45
41:L4:130:ALA:HA	41:L4:148:ILE:HG22	1.99	0.45
43:L6:50:LYS:HG2	43:L6:74:VAL:HG21	1.97	0.45
46:L9:4:ILE:HG22	56:N0:142:GLN:CD	2.42	0.45
46:L9:163:GLN:HA	46:L9:166:ARG:HD2	1.98	0.45
51:M5:39:ALA:HB3	51:M5:61:ILE:HG22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:87:ASN:HB2	58:N2:89:LEU:HG	1.97	0.45
59:N3:35:TYR:CE2	59:N3:37:ILE:HG22	2.51	0.45
69:O3:8:TYR:CD2	69:O3:99:ARG:HB3	2.51	0.45
1:6:58:U:O2'	1:6:451:A:N3	2.41	0.45
1:6:95:G:OP1	6:s4:6:LYS:HD2	2.16	0.45
1:6:219:A:N6	1:6:843:U:C2	2.84	0.45
1:6:639:U:H1'	1:6:640:U:C6	2.51	0.45
4:s2:90:THR:OG1	4:s2:91:ARG:N	2.49	0.45
4:s2:116:LYS:HB2	4:s2:131:ILE:HD12	1.98	0.45
4:s2:141:ARG:H	4:s2:141:ARG:HG2	1.50	0.45
10:s8:89:GLU:HB2	10:s8:92:ARG:HH12	1.80	0.45
11:s9:123:HIS:HE1	32:e0:37:ARG:HB2	1.79	0.45
13:c1:118:GLN:O	13:c1:121:ASP:HB2	2.16	0.45
17:c5:119:PHE:HE1	20:c8:119:ILE:HG23	1.80	0.45
28:d6:88:SER:O	28:d6:92:ARG:HG3	2.15	0.45
36:5:30:G:P	51:m5:172:ARG:HH11	2.38	0.45
36:5:96:G:OP2	64:n8:34:MET:HB2	2.16	0.45
36:5:949:C:O2'	36:5:971:G:OP1	2.28	0.45
36:5:1116:G:N2	36:5:2817:A:O4'	2.49	0.45
36:5:1340:G:H2'	36:5:1341:U:H6	1.82	0.45
36:5:1413:G:N7	86:5:3644:OHX:N5	2.65	0.45
36:5:1473:G:OP2	55:m9:8:LYS:NZ	2.50	0.45
36:5:2384:A:H8	36:5:2384:A:O5'	2.00	0.45
43:l6:56:LYS:NZ	43:l6:101:PHE:O	2.28	0.45
46:l9:8:GLN:NE2	46:l9:69:ARG:HD3	2.31	0.45
52:m6:3:VAL:O	52:m6:3:VAL:HG22	2.15	0.45
72:o6:51:SER:O	72:o6:55:ARG:HG3	2.16	0.45
72:o6:74:LYS:HA	72:o6:83:ALA:HB2	1.97	0.45
78:q2:61:LYS:H	78:q2:61:LYS:HG2	1.56	0.45
79:q3:47:VAL:HG22	79:q3:57:CYS:HB2	1.96	0.45
1:2:145:A:O2'	1:2:146:U:O5'	2.32	0.45
1:2:154:G:H5'	8:S6:108:VAL:HG21	1.98	0.45
1:2:284:G:N7	8:S6:188:ARG:NH1	2.64	0.45
1:2:583:C:H2'	1:2:584:C:H6	1.81	0.45
1:2:1429:G:C1'	22:D0:74:GLU:HG2	2.45	0.45
1:2:1628:U:H2'	1:2:1629:G:C8	2.52	0.45
2:S0:74:VAL:HG12	2:S0:76:ILE:HG13	1.97	0.45
4:S2:63:VAL:HG12	4:S2:134:LEU:HD12	1.97	0.45
25:D3:16:ARG:HG3	25:D3:16:ARG:H	1.53	0.45
25:D3:134:ALA:HB1	25:D3:140:LYS:HB2	1.99	0.45
26:D4:46:GLU:H	26:D4:46:GLU:HG3	1.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:E0:14:VAL:O	32:E0:18:THR:HG23	2.16	0.45
36:1:685:G:P	49:M3:35:ARG:NH1	2.89	0.45
36:1:1597:C:H2'	36:1:1598:G:C8	2.52	0.45
36:1:1815:U:H1'	36:1:1816:A:O5'	2.16	0.45
36:1:1864:A:OP1	55:M9:88:ARG:NH1	2.49	0.45
36:1:2294:U:O2	36:1:2296:A:H8	2.00	0.45
41:L4:91:GLY:HA3	41:L4:93:MET:HE2	1.97	0.45
42:L5:22:ARG:HG2	42:L5:28:THR:OG1	2.15	0.45
42:L5:83:LEU:HB3	42:L5:88:ILE:HB	1.98	0.45
43:L6:154:LEU:HD23	43:L6:157:GLN:HB2	1.98	0.45
47:M0:193:ASP:OD1	47:M0:198:LYS:HE3	2.15	0.45
55:M9:172:ARG:O	55:M9:176:ARG:HG2	2.16	0.45
56:N0:166:LYS:HB3	56:N0:167:ARG:H	1.45	0.45
61:N5:67:ILE:HD12	61:N5:121:LYS:HG3	1.99	0.45
72:O6:34:SER:OG	72:O6:37:THR:HG23	2.16	0.45
72:O6:53:TYR:HB2	72:O6:76:ARG:HD2	1.98	0.45
74:O8:8:ILE:H	74:O8:8:ILE:HD12	1.81	0.45
78:Q2:9:LYS:HE3	78:Q2:9:LYS:HB2	1.65	0.45
1:6:512:A:H2'	1:6:513:U:H6	1.82	0.45
1:6:531:C:O2	26:d4:62:THR:HG23	2.17	0.45
1:6:1288:G:N7	1:6:1314:U:O2'	2.36	0.45
1:6:1470:C:H5"	1:6:1471:A:O4'	2.16	0.45
1:6:1559:A:C6	20:c8:134:ARG:HD3	2.52	0.45
1:6:1634:C:H2'	1:6:1634:C:O2	2.16	0.45
1:6:1696:G:H8	1:6:1696:G:H5"	1.81	0.45
1:6:1796:C:OP2	28:d6:5:ARG:NH1	2.49	0.45
2:s0:79:ARG:HD2	2:s0:125:ASP:HB2	1.98	0.45
4:s2:164:SER:O	4:s2:202:GLY:HA3	2.15	0.45
4:s2:169:LEU:HD23	4:s2:198:THR:HG22	1.98	0.45
6:s4:137:PRO:HG2	6:s4:150:PRO:HD2	1.97	0.45
8:s6:20:ASP:HB3	8:s6:23:ARG:HG3	1.98	0.45
9:s7:184:GLU:HG2	9:s7:185:ILE:H	1.80	0.45
17:c5:18:ARG:NH2	17:c5:38:PRO:HG3	2.31	0.45
19:c7:6:THR:OG1	19:c7:8:THR:HG23	2.17	0.45
22:d0:18:GLN:O	22:d0:96:PRO:HB3	2.15	0.45
23:d1:32:VAL:HB	23:d1:60:ARG:HD2	1.97	0.45
30:d8:10:ALA:O	30:d8:53:ILE:HG23	2.16	0.45
36:5:56:G:H2'	36:5:57:A:H5"	1.98	0.45
36:5:269:G:P	51:m5:44:ARG:HH12	2.39	0.45
36:5:536:U:H1'	36:5:559:A:C8	2.51	0.45
36:5:1145:G:H5'	68:o2:46:PHE:CE1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2515:A:H5"	51:m5:28:TRP:CD1	2.51	0.45
36:5:2687:G:N7	86:5:3420:OHX:N1	2.64	0.45
36:5:3275:U:OP1	36:5:3275:U:C6	2.66	0.45
40:l3:84:VAL:HB	40:l3:162:VAL:HB	1.97	0.45
48:m1:45:PRO:HB3	48:m1:69:VAL:HB	1.98	0.45
48:m1:94:ARG:O	48:m1:96:PHE:N	2.48	0.45
50:m4:73:PRO:HD2	50:m4:84:LYS:HD2	1.98	0.45
52:m6:7:VAL:HG23	52:m6:31:GLN:NE2	2.31	0.45
52:m6:42:ASN:HA	52:m6:136:THR:O	2.16	0.45
55:m9:172:ARG:O	55:m9:176:ARG:HG2	2.17	0.45
66:o0:101:LEU:H	66:o0:101:LEU:CD2	2.28	0.45
1:2:1402:G:H2'	1:2:1403:C:H6	1.81	0.45
1:2:1437:U:H5'	5:S3:176:LEU:HD23	1.97	0.45
1:2:1697:G:H2'	1:2:1697:G:N3	2.31	0.45
6:S4:106:LYS:HG3	6:S4:108:ARG:NH1	2.31	0.45
7:S5:57:SER:C	7:S5:59:VAL:N	2.72	0.45
8:S6:26:VAL:HG21	8:S6:40:ALA:HB1	1.98	0.45
19:C7:81:LYS:HE3	19:C7:81:LYS:HB2	1.51	0.45
20:C8:115:ARG:O	20:C8:119:ILE:HD13	2.16	0.45
23:D1:38:LYS:NZ	23:D1:49:GLU:HG3	2.31	0.45
26:D4:36:SER:OG	26:D4:37:LYS:N	2.49	0.45
26:D4:57:VAL:HG13	26:D4:60:PHE:HE2	1.81	0.45
27:D5:65:LEU:HB3	27:D5:71:ILE:HD12	1.99	0.45
29:D7:64:CYS:HB2	29:D7:71:ALA:HB1	1.98	0.45
36:1:265:A:O3'	51:M5:5:LYS:NZ	2.49	0.45
36:1:435:C:H2'	36:1:436:A:C8	2.51	0.45
36:1:595:G:C8	36:1:609:G:C6	3.05	0.45
36:1:1237:G:H2'	36:1:1237:G:N3	2.32	0.45
36:1:1307:G:C2	36:1:1308:A:C2	3.04	0.45
36:1:1597:C:H42	36:1:1610:G:H1	1.64	0.45
36:1:1717:U:H2'	36:1:1718:G:C8	2.52	0.45
36:1:2890:A:O2'	36:1:2933:A:N3	2.45	0.45
36:1:3030:G:C6	36:1:3031:G:C4	3.04	0.45
36:1:3294:A:H2'	36:1:3295:A:O4'	2.16	0.45
37:3:71:G:H2'	37:3:72:A:C8	2.52	0.45
38:4:24:G:OP2	62:N6:13:ARG:NH1	2.37	0.45
38:4:79:A:H5"	71:O5:43:LYS:HZ2	1.82	0.45
40:L3:358:TRP:CH2	40:L3:360:ASP:HB2	2.51	0.45
41:L4:304:GLN:HB3	41:L4:306:THR:O	2.17	0.45
42:L5:91:GLY:O	42:L5:94:ASN:ND2	2.49	0.45
44:L7:244:ASN:C	44:L7:244:ASN:HD22	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:43:VAL:HG21	58:N2:50:LEU:HA	1.98	0.45
72:O6:54:GLU:HB3	72:O6:90:MET:HE2	1.99	0.45
1:6:142:G:C2	1:6:266:A:C4	3.05	0.45
1:6:301:A:OP2	86:6:1948:OHX:N1	2.49	0.45
1:6:484:C:N4	1:6:503:G:H22	2.15	0.45
1:6:699:U:H3	1:6:739:G:H1	1.62	0.45
1:6:1229:G:O6	14:c2:47:GLU:N	2.49	0.45
1:6:1660:A:H2'	1:6:1661:U:C6	2.52	0.45
3:s1:82:ARG:HA	3:s1:104:ASP:O	2.16	0.45
5:s3:64:ARG:NH1	5:s3:68:GLU:OE1	2.50	0.45
6:s4:7:LYS:HD2	6:s4:7:LYS:N	2.30	0.45
7:s5:41:LYS:HE2	7:s5:41:LYS:HB3	1.58	0.45
7:s5:68:ILE:HD13	7:s5:69:PHE:H	1.81	0.45
15:c3:26:PHE:CE2	15:c3:66:ILE:HD13	2.51	0.45
24:d2:74:VAL:O	24:d2:75:ILE:HD13	2.16	0.45
33:e1:92:LYS:HG3	33:e1:92:LYS:O	2.17	0.45
80:sM:74:LYS:HE2	80:sM:74:LYS:HB2	1.75	0.45
36:5:308:A:H5'	36:5:2223:A:O2'	2.16	0.45
36:5:1567:U:H2'	36:5:1568:U:C4'	2.46	0.45
36:5:1699:A:H2'	36:5:1700:G:C8	2.52	0.45
36:5:2726:C:O2	36:5:2726:C:O5'	2.35	0.45
36:5:3245:A:H2	36:5:3246:G:N1	2.13	0.45
36:5:3298:C:OP1	53:m7:74:LYS:NZ	2.49	0.45
40:l3:5:LYS:HG2	40:l3:6:TYR:CE1	2.52	0.45
42:l5:41:LYS:HA	42:l5:41:LYS:HD3	1.52	0.45
42:l5:265:TYR:C	42:l5:269:SER:HB3	2.41	0.45
47:m0:45:GLU:O	47:m0:141:LYS:HE3	2.16	0.45
50:m4:55:ARG:HD3	56:n0:70:THR:OG1	2.15	0.45
58:n2:90:ARG:O	58:n2:91:ASP:HB2	2.15	0.45
67:o1:25:PHE:HB3	67:o1:65:LYS:HG3	1.98	0.45
69:o3:16:TYR:CG	69:o3:25:PRO:HA	2.52	0.45
74:o8:3:ARG:NH1	74:o8:52:TYR:HE1	2.15	0.45
74:o8:61:LYS:H	74:o8:61:LYS:HG2	1.52	0.45
1:2:461:G:N7	86:2:2011:OHX:N1	2.65	0.45
1:2:696:C:H1'	1:2:697:C:H2'	1.99	0.45
1:2:819:G:H4'	1:2:820:U:OP1	2.16	0.45
1:2:1563:C:H2'	1:2:1564:U:C6	2.51	0.45
3:S1:208:GLN:O	3:S1:210:ILE:HG13	2.16	0.45
4:S2:229:LEU:HD23	23:D1:23:ILE:HD11	1.99	0.45
11:S9:8:TYR:O	86:S9:201:OHX:N5	2.50	0.45
19:C7:7:LYS:O	19:C7:11:ARG:N	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:6:VAL:HB	21:C9:14:PHE:CE1	2.51	0.45
27:D5:70:LYS:HA	27:D5:70:LYS:HD3	1.77	0.45
33:E1:133:ALA:O	33:E1:139:LEU:HA	2.17	0.45
36:1:217:U:O2'	62:N6:103:LYS:HE2	2.16	0.45
36:1:412:G:H1'	53:M7:120:ASN:HB3	1.99	0.45
36:1:567:G:H2'	36:1:568:G:C8	2.52	0.45
36:1:708:G:N2	36:1:711:A:OP2	2.44	0.45
36:1:1410:U:OP2	86:1:3491:OHX:N4	2.49	0.45
36:1:2401:A:H4'	41:L4:68:GLY:O	2.17	0.45
36:1:3306:U:H2'	36:1:3307:A:H5"	1.98	0.45
37:3:91:G:H2'	37:3:92:A:C8	2.51	0.45
40:L3:194:TRP:CE2	40:L3:198:HIS:CE1	3.04	0.45
51:M5:119:TYR:OH	51:M5:131:GLU:OE1	2.24	0.45
52:M6:102:LEU:HD12	52:M6:103:LYS:H	1.81	0.45
53:M7:19:GLY:N	53:M7:94:LEU:HD21	2.31	0.45
53:M7:169:THR:HG23	69:O3:60:ARG:HH11	1.81	0.45
62:N6:3:LYS:HD2	62:N6:8:VAL:HB	1.97	0.45
1:6:66:U:H4'	1:6:67:A:OP1	2.16	0.45
1:6:107:C:H42	1:6:307:G:H1	1.62	0.45
1:6:1329:A:H8	1:6:1329:A:O5'	1.99	0.45
1:6:1371:A:H5'	1:6:1372:U:OP2	2.17	0.45
1:6:1382:A:O2'	1:6:1383:G:H5"	2.17	0.45
1:6:1491:U:H4'	1:6:1492:A:C5'	2.46	0.45
1:6:1783:C:H2'	1:6:1784:C:C6	2.47	0.45
8:s6:61:PHE:CE1	8:s6:96:SER:HB2	2.51	0.45
21:c9:57:ARG:HB2	21:c9:57:ARG:HH11	1.80	0.45
36:5:240:U:O2'	36:5:241:G:H8	2.00	0.45
36:5:787:G:H2'	36:5:788:C:C6	2.51	0.45
36:5:878:G:O6	40:l3:243:HIS:NE2	2.49	0.45
36:5:1393:A:C8	36:5:1418:A:C6	3.04	0.45
36:5:1621:A:H2'	36:5:1622:U:H6	1.81	0.45
38:8:135:G:OP1	61:n5:49:LYS:HE3	2.16	0.45
42:l5:51:LEU:HB2	42:l5:144:VAL:CG1	2.45	0.45
42:l5:234:ASP:OD1	86:l5:301:OHX:N6	2.50	0.45
44:l7:179:LEU:HD22	44:l7:183:ASP:OD2	2.17	0.45
61:n5:48:SER:OG	61:n5:49:LYS:N	2.48	0.45
70:o4:67:LYS:HA	70:o4:70:LYS:HE3	1.97	0.45
1:2:134:U:OP1	1:2:136:C:N4	2.50	0.45
1:2:249:U:H3'	1:2:250:C:H5'	1.98	0.45
1:2:309:C:H2'	1:2:310:C:C6	2.51	0.45
1:2:852:C:H6	1:2:852:C:O5'	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1401:A:OP1	19:C7:60:ARG:NH1	2.50	0.45
1:2:1545:A:OP1	20:C8:133:VAL:HG23	2.17	0.45
1:2:1650:U:H2'	1:2:1651:A:C8	2.52	0.45
3:S1:180:THR:HB	3:S1:182:ALA:H	1.82	0.45
9:S7:37:GLU:H	9:S7:37:GLU:HG2	1.56	0.45
11:S9:113:VAL:CG2	11:S9:134:ILE:HG13	2.46	0.45
17:C5:98:ASN:HB2	17:C5:122:THR:HG22	1.98	0.45
17:C5:108:ARG:HG2	17:C5:109:PRO:HD2	1.99	0.45
18:C6:13:LYS:O	18:C6:76:SER:OG	2.31	0.45
18:C6:14:LYS:HB3	18:C6:15:SER:H	1.60	0.45
19:C7:5:ARG:N	19:C7:5:ARG:HD3	2.31	0.45
28:D6:37:LYS:HA	28:D6:71:LEU:O	2.17	0.45
36:1:157:A:C8	72:O6:26:ILE:HG12	2.52	0.45
36:1:209:A:H4'	36:1:211:A:C8	2.51	0.45
36:1:266:A:P	51:M5:5:LYS:HZ1	2.40	0.45
36:1:505:G:OP1	41:L4:320:ASN:ND2	2.45	0.45
36:1:634:C:H5'	69:O3:21:ARG:O	2.16	0.45
36:1:1774:C:H2'	36:1:1775:G:O4'	2.16	0.45
36:1:1845:G:H5"	36:1:1845:G:H8	1.82	0.45
41:L4:106:TRP:HA	49:M3:24:VAL:HG11	1.98	0.45
42:L5:5:LYS:HD2	42:L5:5:LYS:HA	1.66	0.45
45:L8:183:LYS:HD2	45:L8:194:THR:HB	1.99	0.45
46:L9:128:VAL:HG22	46:L9:134:ILE:HD13	1.99	0.45
50:M4:22:LEU:HB3	50:M4:64:VAL:HG22	1.97	0.45
57:N1:9:SER:OG	57:N1:10:ARG:HG3	2.17	0.45
59:N3:118:VAL:O	59:N3:137:VAL:N	2.48	0.45
62:N6:89:LYS:HG2	62:N6:90:VAL:H	1.81	0.45
63:N7:10:VAL:HG23	63:N7:86:THR:HA	1.98	0.45
63:N7:81:LEU:HD23	63:N7:81:LEU:HA	1.85	0.45
64:N8:6:THR:HG23	64:N8:8:THR:H	1.82	0.45
66:O0:99:ASP:O	66:O0:103:THR:HG23	2.17	0.45
1:6:27:U:H2'	1:6:28:A:C8	2.51	0.45
1:6:348:U:O4	86:6:2012:OHX:N4	2.50	0.45
1:6:1031:U:H4'	1:6:1032:G:OP2	2.17	0.45
1:6:1079:U:H2'	1:6:1080:U:C6	2.52	0.45
1:6:1178:G:H4'	80:sM:83:LYS:CE	2.47	0.45
4:s2:58:LEU:O	23:d1:15:ARG:NE	2.45	0.45
7:s5:99:MET:O	7:s5:100:ASN:HB2	2.17	0.45
7:s5:156:ARG:HA	7:s5:157:ARG:HH21	1.81	0.45
16:c4:132:ARG:H	28:d6:22:ARG:NH2	2.14	0.45
20:c8:14:ILE:HG23	20:c8:14:ILE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c8:119:ILE:HD12	20:c8:119:ILE:HA	1.77	0.45
22:d0:33:GLN:O	22:d0:37:VAL:HG23	2.17	0.45
24:d2:90:THR:HG21	24:d2:113:HIS:CD2	2.52	0.45
36:5:375:A:OP2	62:n6:89:LYS:NZ	2.49	0.45
36:5:783:A:OP2	86:5:3686:OHX:N6	2.49	0.45
36:5:1020:G:H2'	36:5:1021:G:O4'	2.17	0.45
36:5:1661:G:H2'	36:5:1662:G:C8	2.52	0.45
36:5:2315:G:H2'	36:5:2316:G:H8	1.82	0.45
36:5:3017:A:H2'	36:5:3018:C:C6	2.52	0.45
36:5:3182:G:H2'	36:5:3183:A:O4'	2.16	0.45
36:5:3218:A:H8	36:5:3218:A:H2'	1.68	0.45
86:5:3507:OHX:N5	55:m9:87:ALA:O	2.50	0.45
38:8:80:A:H2	38:8:83:C:H41	1.65	0.45
41:l4:327:LEU:HA	44:l7:166:ASN:HD21	1.81	0.45
42:l5:115:LEU:O	42:l5:118:THR:O	2.34	0.45
81:l8:52:TRP:NE1	81:l8:60:ARG:HH12	2.15	0.45
51:m5:13:LYS:O	51:m5:19:LEU:HD22	2.16	0.45
51:m5:47:LYS:HE3	51:m5:51:LEU:HD11	1.99	0.45
51:m5:173:GLY:O	51:m5:183:THR:HG23	2.17	0.45
52:m6:18:ARG:O	52:m6:22:VAL:HG13	2.17	0.45
57:n1:80:VAL:HG11	57:n1:85:LEU:HD12	1.99	0.45
61:n5:46:TYR:HD2	71:o5:75:TYR:HB3	1.81	0.45
63:n7:12:VAL:HB	63:n7:81:LEU:HB3	1.98	0.45
78:q2:9:LYS:HE3	78:q2:9:LYS:HB2	1.71	0.45
1:2:1171:A:H2'	1:2:1172:G:C8	2.51	0.45
1:2:1498:G:OP1	21:C9:75:LYS:HD3	2.17	0.45
1:2:1514:U:H1'	5:S3:6:SER:HB2	1.98	0.45
1:2:1796:C:H4'	1:2:1797:A:OP2	2.16	0.45
5:S3:65:ARG:HA	5:S3:68:GLU:HG3	1.99	0.45
8:S6:147:LEU:HB3	8:S6:151:ASP:HB2	1.98	0.45
11:S9:115:LYS:HD2	11:S9:115:LYS:HA	1.72	0.45
13:C1:141:LYS:HG3	13:C1:142:VAL:N	2.32	0.45
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	1.98	0.45
15:C3:33:VAL:HA	15:C3:36:GLN:HB2	1.99	0.45
27:D5:54:VAL:HG13	27:D5:57:TYR:HD1	1.81	0.45
28:D6:85:ARG:HB3	28:D6:86:VAL:H	1.56	0.45
36:1:148:G:OP2	51:M5:4:TYR:OH	2.18	0.45
36:1:500:C:O2'	36:1:501:A:H5'	2.16	0.45
36:1:789:A:H2'	36:1:790:U:H6	1.80	0.45
36:1:863:C:H2'	36:1:864:G:O4'	2.17	0.45
36:1:1231:A:N1	36:1:1279:C:N4	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1567:U:H5	36:1:1568:U:C2	2.34	0.45
36:1:1696:A:H2'	36:1:1697:A:C8	2.51	0.45
36:1:1886:A:N1	36:1:2390:A:O2'	2.50	0.45
36:1:3281:U:H2'	36:1:3282:U:C6	2.51	0.45
38:4:85:G:O6	62:N6:112:ASP:HB3	2.17	0.45
45:L8:45:ASN:ND2	45:L8:47:SER:HB3	2.32	0.45
52:M6:62:THR:HG21	52:M6:68:ARG:HG3	1.97	0.45
1:6:234:G:H2'	1:6:235:G:O4'	2.17	0.45
1:6:407:A:H2'	1:6:408:C:C6	2.51	0.45
1:6:761:G:H4'	11:s9:72:GLU:OE2	2.17	0.45
1:6:765:G:C6	11:s9:149:ARG:NH1	2.85	0.45
1:6:1785:U:OP1	16:c4:136:ARG:NH1	2.49	0.45
3:s1:47:LEU:HD12	3:s1:47:LEU:H	1.82	0.45
5:s3:65:ARG:O	5:s3:69:LEU:HD22	2.17	0.45
9:s7:126:LEU:HB2	9:s7:173:TYR:CE2	2.51	0.45
17:c5:7:ALA:C	17:c5:9:LYS:H	2.25	0.45
26:d4:124:ARG:O	26:d4:127:LYS:HB3	2.16	0.45
30:d8:32:PHE:CE1	30:d8:38:ARG:HD2	2.52	0.45
34:sR:53:LYS:O	34:sR:55:GLY:N	2.49	0.45
34:sR:82:SER:OG	34:sR:92:TRP:NE1	2.36	0.45
36:5:644:G:H2'	36:5:2372:A:N7	2.32	0.45
36:5:676:G:O2'	36:5:786:A:N1	2.45	0.45
36:5:715:A:C8	64:n8:115:LYS:HG3	2.51	0.45
36:5:860:G:C5	39:l2:181:LYS:HB2	2.51	0.45
36:5:947:G:H5"	68:o2:55:ILE:HB	1.99	0.45
36:5:1072:G:H2'	36:5:1073:U:C6	2.52	0.45
36:5:1330:A:OP1	69:o3:19:SER:HB3	2.17	0.45
36:5:1696:A:OP2	86:5:3680:OHX:N6	2.48	0.45
36:5:2128:C:H2'	36:5:2129:U:O4'	2.17	0.45
36:5:2387:A:OP2	86:5:3521:OHX:N4	2.49	0.45
37:7:4:U:H2'	37:7:5:G:H8	1.82	0.45
38:8:139:U:H2'	38:8:140:G:C8	2.50	0.45
39:l2:90:ALA:HB2	39:l2:101:VAL:HG13	1.98	0.45
39:l2:224:THR:HA	39:l2:237:LEU:O	2.17	0.45
41:l4:23:PRO:HD2	41:l4:26:PHE:CD2	2.52	0.45
42:l5:160:PHE:HA	42:l5:163:LEU:HB3	1.99	0.45
42:l5:282:ARG:O	42:l5:286:VAL:HG23	2.16	0.45
46:l9:85:GLY:O	46:l9:186:PHE:HA	2.16	0.45
57:n1:139:ARG:NH2	57:n1:139:ARG:HG2	2.30	0.45
84:p0:42:ARG:O	84:p0:46:ARG:HG2	2.16	0.45
1:2:651:G:N7	86:2:1978:OHX:N4	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:968:U:H5"	1:2:1033:C:O2'	2.17	0.45
1:2:1145:U:O2'	4:S2:89:GLN:O	2.28	0.45
1:2:1500:C:OP1	21:C9:122:ARG:NH2	2.50	0.45
1:2:1609:U:H2'	1:2:1610:G:O4'	2.17	0.45
1:2:1687:U:H1'	1:2:1715:G:N2	2.31	0.45
2:S0:82:GLY:O	2:S0:86:VAL:HG22	2.17	0.45
3:S1:137:ILE:HD12	3:S1:172:LEU:HD22	1.99	0.45
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.50	0.45
10:S8:142:LYS:H	10:S8:142:LYS:HG2	1.59	0.45
12:C0:59:PHE:CE1	12:C0:62:GLN:HA	2.52	0.45
18:C6:40:GLU:HB2	18:C6:42:GLU:HB2	1.98	0.45
31:D9:49:ASP:N	31:D9:49:ASP:OD1	2.50	0.45
34:SR:238:ASP:OD1	34:SR:238:ASP:N	2.46	0.45
35:SM:34:LYS:HE3	36:1:2692:A:O3'	2.16	0.45
36:1:698:U:H2'	36:1:699:A:O4'	2.16	0.45
36:1:1103:A:N6	36:1:1363:A:H1'	2.32	0.45
36:1:1286:A:N3	36:1:1287:A:H1'	2.31	0.45
36:1:1764:U:H5"	55:M9:43:LYS:NZ	2.32	0.45
36:1:2267:C:H2'	36:1:2268:U:O4'	2.17	0.45
36:1:3318:G:OP2	36:1:3318:G:H2'	2.16	0.45
41:L4:49:ALA:HA	41:L4:109:TRP:CZ2	2.52	0.45
41:L4:126:ILE:HG13	41:L4:238:LEU:HD13	1.97	0.45
41:L4:338:LYS:HD2	41:L4:338:LYS:HA	1.52	0.45
44:L7:103:LEU:HD23	44:L7:103:LEU:HA	1.78	0.45
48:M1:14:ILE:HG12	48:M1:131:MET:SD	2.57	0.45
49:M3:126:PHE:HZ	49:M3:135:ALA:CB	2.30	0.45
52:M6:138:LEU:HD12	52:M6:138:LEU:HA	1.63	0.45
52:M6:181:ALA:O	52:M6:184:THR:HG23	2.17	0.45
57:N1:15:PHE:CE2	57:N1:44:ALA:HB3	2.52	0.45
57:N1:126:VAL:HG23	57:N1:127:GLN:H	1.81	0.45
75:O9:21:ARG:CZ	75:O9:24:PRO:HG3	2.47	0.45
1:6:281:G:C6	1:6:282:C:C4	3.05	0.45
1:6:588:U:OP2	32:e0:26:LYS:NZ	2.35	0.45
1:6:802:G:H21	24:d2:107:SER:HB3	1.82	0.45
1:6:814:A:H2'	55:m9:170:ARG:HH12	1.80	0.45
1:6:1451:C:H2'	1:6:1452:U:C6	2.51	0.45
1:6:1540:G:C6	1:6:1541:G:C4	3.05	0.45
2:s0:88:LYS:HA	2:s0:88:LYS:HD2	1.66	0.45
4:s2:156:THR:HG21	4:s2:224:PHE:CD1	2.51	0.45
6:s4:42:LEU:HD23	6:s4:42:LEU:HA	1.78	0.45
7:s5:43:PHE:O	7:s5:44:ASN:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s6:98:ARG:HD3	8:s6:99:GLY:N	2.31	0.45
17:c5:98:ASN:HD21	17:c5:101:ALA:HB3	1.81	0.45
36:5:149:U:P	51:m5:49:ARG:HH11	2.39	0.45
36:5:158:G:N2	36:5:264:G:H1'	2.32	0.45
36:5:2931:C:H2'	36:5:2932:U:O4'	2.17	0.45
41:l4:314:LYS:HD2	44:l7:162:PRO:HB3	1.99	0.45
42:l5:41:LYS:NZ	57:n1:32:LYS:O	2.45	0.45
62:n6:31:LEU:HD23	62:n6:31:LEU:HA	1.76	0.45
69:o3:52:VAL:HG21	69:o3:99:ARG:NH1	2.31	0.45
79:q3:51:ALA:O	79:q3:54:ILE:HG23	2.16	0.45
1:2:754:A:H61	1:2:793:A:H2'	1.82	0.45
1:2:886:U:H2'	1:2:887:A:O4'	2.17	0.45
1:2:1081:A:O2'	1:2:1082:C:O5'	2.35	0.45
1:2:1765:A:H8	1:2:1768:G:N2	2.15	0.45
6:S4:163:ASP:O	6:S4:165:ALA:N	2.50	0.45
9:S7:42:GLN:HG2	9:S7:43:PHE:N	2.31	0.45
10:S8:26:LYS:O	10:S8:29:LEU:HB3	2.17	0.45
15:C3:103:GLU:HG2	15:C3:103:GLU:H	1.51	0.45
15:C3:148:ALA:O	86:C3:201:OHX:N6	2.50	0.45
16:C4:20:TYR:HB3	16:C4:27:PHE:HB2	1.99	0.45
27:D5:89:ILE:HB	27:D5:101:TYR:CG	2.52	0.45
36:1:1246:G:H2'	36:1:1247:U:O4'	2.17	0.45
36:1:1495:U:C5	36:1:1835:A:N1	2.81	0.45
36:1:1807:G:H5'	63:N7:135:ARG:HH22	1.82	0.45
36:1:2226:U:O2'	36:1:2227:C:H5'	2.17	0.45
36:1:2407:C:H2'	36:1:2408:U:H6	1.82	0.45
36:1:2635:A:H4'	36:1:2636:A:O5'	2.16	0.45
36:1:2656:A:C8	36:1:2658:G:C8	3.05	0.45
36:1:2898:G:H5"	36:1:2899:C:C5'	2.46	0.45
38:4:155:A:H5'	45:L8:185:ARG:NH2	2.32	0.45
45:L8:225:LYS:O	45:L8:229:VAL:HG23	2.17	0.45
46:L9:91:ARG:HG2	46:L9:143:GLU:HG3	1.98	0.45
46:L9:129:ARG:O	46:L9:132:VAL:HG13	2.16	0.45
50:M4:85:TRP:NE1	50:M4:90:VAL:HB	2.32	0.45
52:M6:34:VAL:HG11	52:M6:112:TYR:CE1	2.51	0.45
60:N4:23:ARG:HG2	60:N4:24:GLY:H	1.81	0.45
66:O0:100:ILE:HD12	66:O0:101:LEU:HD23	1.98	0.45
67:O1:74:ARG:HD2	67:O1:94:GLU:OE1	2.17	0.45
1:6:2:A:H2	4:s2:199:GLN:HE21	1.64	0.45
1:6:227:U:O2'	1:6:228:G:OP2	2.31	0.45
1:6:1482:C:OP2	1:6:1521:G:N1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1759:C:H2'	1:6:1760:G:O4'	2.17	0.45
18:c6:82:ARG:NH2	18:c6:114:ARG:HG3	2.32	0.45
23:d1:69:LEU:HD23	23:d1:69:LEU:HA	1.81	0.45
26:d4:51:GLU:O	26:d4:53:ASP:N	2.50	0.45
34:sR:267:PRO:HD2	34:sR:269:TYR:HE1	1.81	0.45
36:5:72:C:C2	36:5:74:G:H1'	2.52	0.45
36:5:172:G:N7	86:5:3578:OHX:N3	2.65	0.45
36:5:728:G:H5"	54:m8:43:PRO:HB2	1.99	0.45
36:5:806:A:H5"	36:5:936:A:N6	2.32	0.45
36:5:1390:A:H5'	36:5:1390:A:N3	2.32	0.45
36:5:1412:G:OP1	68:o2:105:ARG:NH2	2.50	0.45
36:5:1805:C:O2'	70:o4:76:TYR:HD1	2.00	0.45
36:5:2993:G:C6	36:5:3142:A:C4	3.04	0.45
36:5:3019:U:O4	86:5:3486:OHX:N2	2.49	0.45
86:5:3479:OHX:N3	86:5:3691:OHX:N3	2.65	0.45
38:8:68:G:H1	38:8:91:C:H42	1.65	0.45
38:8:70:G:H5"	62:n6:28:ARG:NH2	2.31	0.45
39:l2:117:GLU:HG2	39:l2:124:GLY:H	1.82	0.45
40:l3:214:MET:HE3	40:l3:214:MET:HB3	1.60	0.45
41:l4:92:ASN:OD1	41:l4:92:ASN:N	2.47	0.45
41:l4:327:LEU:O	41:l4:328:ASN:C	2.59	0.45
43:l6:131:LYS:O	43:l6:135:VAL:HG23	2.16	0.45
44:l7:236:ILE:O	44:l7:240:VAL:HG23	2.17	0.45
54:m8:178:ARG:HA	54:m8:178:ARG:HD2	1.74	0.45
63:n7:27:LYS:HG3	63:n7:29:HIS:CD2	2.52	0.45
1:2:132:U:HO2'	1:2:133:U:P	2.40	0.45
1:2:180:A:H2'	1:2:181:A:O4'	2.17	0.45
1:2:400:A:H8	10:S8:24:LYS:O	1.99	0.45
1:2:497:G:O2'	1:2:498:G:C8	2.67	0.45
1:2:927:C:H2'	1:2:928:U:C6	2.52	0.45
1:2:1354:G:H5'	1:2:1355:C:OP2	2.16	0.45
1:2:1521:G:O2'	1:2:1523:G:OP2	2.30	0.45
3:S1:157:GLN:C	3:S1:159:SER:H	2.25	0.45
4:S2:230:TRP:NE1	24:D2:68:ARG:HB3	2.32	0.45
5:S3:94:ARG:HH21	35:SM:134:ASP:CG	2.24	0.45
6:S4:123:LEU:HD22	6:S4:236:ILE:HG23	1.99	0.45
7:S5:21:THR:O	7:S5:21:THR:OG1	2.30	0.45
7:S5:107:LYS:O	7:S5:111:VAL:HG23	2.16	0.45
7:S5:166:ARG:HB2	30:D8:46:GLY:HA3	1.98	0.45
10:S8:21:PHE:CE1	10:S8:22:ARG:HD3	2.52	0.45
11:S9:143:ILE:HG22	11:S9:145:SER:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:129:LYS:HG3	16:C4:130:GLY:N	2.31	0.45
17:C5:98:ASN:HB2	17:C5:122:THR:HA	1.99	0.45
23:D1:55:LEU:HD11	23:D1:69:LEU:HG	1.99	0.45
34:SR:248:ASN:OD1	34:SR:248:ASN:N	2.50	0.45
35:SM:136:ALA:O	35:SM:140:ASP:N	2.49	0.45
36:1:123:A:C6	36:1:150:A:C5	3.05	0.45
36:1:643:U:O2'	36:1:1153:A:N1	2.41	0.45
36:1:743:C:N3	54:M8:141:ARG:NH1	2.65	0.45
36:1:889:U:H2'	36:1:890:C:O4'	2.17	0.45
36:1:2854:U:OP1	47:M0:61:SER:OG	2.29	0.45
36:1:2898:G:H5"	36:1:2899:C:H5'	1.98	0.45
36:1:3064:U:O4	86:1:3662:OHX:N6	2.49	0.45
37:3:36:C:H4'	42:L5:155:THR:HG23	1.97	0.45
40:L3:22:ALA:H	40:L3:272:TYR:HD1	1.65	0.45
41:L4:203:ARG:HE	41:L4:240:PRO:HB3	1.82	0.45
41:L4:299:ILE:HG23	54:M8:39:ARG:HB3	1.99	0.45
44:L7:86:VAL:O	44:L7:114:GLY:HA2	2.17	0.45
45:L8:41:GLN:HG3	45:L8:42:PRO:HD2	1.99	0.45
47:M0:100:ASN:OD1	86:M0:301:OHX:N4	2.50	0.45
49:M3:64:LYS:HE3	64:N8:69:TRP:CD1	2.52	0.45
51:M5:84:PRO:HA	51:M5:87:GLN:HG3	1.99	0.45
54:M8:64:VAL:HG22	54:M8:96:PHE:CE2	2.52	0.45
56:N0:1:MET:HE1	56:N0:31:ALA:HA	1.98	0.45
59:N3:81:GLN:HG2	59:N3:83:LYS:O	2.17	0.45
65:N9:14:ARG:NH2	65:N9:18:ARG:HD2	2.32	0.45
72:O6:56:ARG:O	72:O6:60:LEU:HB2	2.17	0.45
1:6:846:G:N2	13:c1:46:LYS:HE2	2.32	0.45
1:6:1054:U:H2'	1:6:1055:U:C6	2.52	0.45
1:6:1157:A:OP2	86:6:1995:OHX:N1	2.49	0.45
1:6:1230:A:H8	1:6:1258:U:C4	2.35	0.45
1:6:1432:U:H4'	1:6:1433:G:H5"	1.99	0.45
2:s0:124:THR:O	2:s0:146:LEU:HB2	2.16	0.45
3:s1:83:LYS:HG3	3:s1:106:THR:HG22	1.99	0.45
7:s5:177:ILE:HG12	7:s5:180:ARG:HH12	1.81	0.45
16:c4:103:ARG:HH12	28:d6:48:ALA:HB3	1.82	0.45
18:c6:25:GLY:HA3	18:c6:64:ASP:CG	2.42	0.45
33:e1:95:HIS:CG	33:e1:96:LYS:H	2.35	0.45
36:5:250:U:H2'	36:5:251:G:N2	2.32	0.45
36:5:1119:C:OP2	86:5:3487:OHX:N2	2.49	0.45
36:5:1362:G:N3	44:l7:158:LYS:NZ	2.62	0.45
36:5:3341:U:H5"	36:5:3342:A:OP2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3350:C:H2'	36:5:3351:U:C2	2.52	0.45
39:l2:211:HIS:CD2	39:l2:219:ILE:HG23	2.52	0.45
40:l3:3:HIS:ND1	40:l3:3:HIS:O	2.50	0.45
40:l3:147:GLU:OE1	40:l3:150:ARG:NH2	2.50	0.45
43:l6:138:GLN:HE21	43:l6:142:ASP:CG	2.25	0.45
64:n8:111:LYS:HA	64:n8:129:PHE:O	2.17	0.45
67:o1:30:PRO:O	67:o1:34:LYS:NZ	2.46	0.45
1:2:301:A:H2'	1:2:302:U:O4'	2.17	0.44
1:2:938:G:N7	86:2:1962:OHX:N6	2.65	0.44
1:2:1111:G:C2	1:2:1112:G:H1'	2.52	0.44
1:2:1357:A:H2'	1:2:1358:G:C8	2.53	0.44
1:2:1407:U:H2'	1:2:1408:G:O4'	2.17	0.44
1:2:1428:G:H5'	1:2:1428:G:H8	1.82	0.44
1:2:1559:A:C6	20:C8:134:ARG:HD2	2.52	0.44
4:S2:35:TRP:CD1	4:S2:35:TRP:C	2.95	0.44
5:S3:55:THR:HG22	5:S3:88:ALA:HB1	1.99	0.44
6:S4:158:ASP:OD1	6:S4:158:ASP:N	2.49	0.44
26:D4:94:TYR:HB2	26:D4:96:LEU:HG	1.98	0.44
34:SR:255:ALA:HB2	34:SR:292:LEU:HD22	1.99	0.44
36:1:297:G:O2'	72:O6:33:ALA:HA	2.17	0.44
36:1:677:A:C8	36:1:786:A:C6	3.06	0.44
36:1:1478:C:H2'	36:1:1479:U:H6	1.82	0.44
36:1:2661:G:O2'	36:1:2745:G:H4'	2.17	0.44
36:1:2749:G:O6	86:1:3646:OHX:N2	2.50	0.44
40:L3:255:TRP:CD1	40:L3:256:HIS:CD2	3.05	0.44
41:L4:302:ALA:HB2	54:M8:39:ARG:NH2	2.33	0.44
42:L5:187:THR:HG23	42:L5:189:GLU:HB2	1.98	0.44
44:L7:77:VAL:HG22	57:N1:139:ARG:O	2.17	0.44
45:L8:116:VAL:HG21	45:L8:123:GLN:HA	1.99	0.44
49:M3:2:ALA:HB2	64:N8:31:GLY:O	2.17	0.44
58:N2:107:PHE:O	58:N2:108:TYR:CG	2.71	0.44
61:N5:103:TYR:HB3	61:N5:135:ILE:HD11	1.98	0.44
66:O0:100:ILE:H	66:O0:100:ILE:HG13	1.58	0.44
1:6:27:U:H2'	1:6:28:A:H8	1.81	0.44
1:6:189:C:C2'	1:6:190:C:H5'	2.46	0.44
1:6:1172:G:H2'	1:6:1173:C:C6	2.52	0.44
1:6:1211:A:H1'	17:c5:99:GLY:O	2.18	0.44
1:6:1533:C:H4'	1:6:1539:G:C6	2.51	0.44
1:6:1615:C:H2'	7:s5:81:ARG:HG3	1.98	0.44
2:s0:202:TYR:O	2:s0:203:PHE:CD2	2.70	0.44
5:s3:115:ILE:HD12	5:s3:116:ARG:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:43:PHE:HB2	9:s7:61:PHE:O	2.18	0.44
20:c8:4:VAL:HG21	27:d5:82:HIS:CG	2.52	0.44
29:d7:41:LEU:HD23	29:d7:41:LEU:H	1.82	0.44
31:d9:24:CYS:HB3	31:d9:42:CYS:SG	2.56	0.44
36:5:576:C:OP1	44:l7:241:LYS:NZ	2.49	0.44
36:5:748:U:H2'	36:5:749:C:H6	1.82	0.44
36:5:1631:C:OP2	63:n7:48:ARG:NH2	2.41	0.44
36:5:1834:U:OP1	75:o9:5:LYS:HE3	2.17	0.44
36:5:2555:G:N2	63:n7:135:ARG:O	2.46	0.44
36:5:3225:C:H2'	36:5:3226:A:O4'	2.17	0.44
48:m1:65:ILE:HG22	48:m1:66:ALA:HB2	1.99	0.44
53:m7:31:GLU:CG	53:m7:60:PHE:HA	2.38	0.44
59:n3:11:PHE:CG	59:n3:88:ARG:HD2	2.51	0.44
61:n5:105:VAL:HG12	61:n5:106:ASP:O	2.17	0.44
62:n6:37:LYS:HG2	62:n6:38:GLU:N	2.32	0.44
64:n8:14:HIS:N	64:n8:14:HIS:ND1	2.66	0.44
71:o5:44:ILE:O	71:o5:48:ARG:HG3	2.17	0.44
1:2:106:U:H2'	1:2:107:C:O4'	2.16	0.44
1:2:653:C:H2'	1:2:654:C:O4'	2.17	0.44
1:2:1000:C:N4	1:2:1003:A:OP2	2.36	0.44
1:2:1410:A:H2'	1:2:1411:A:O4'	2.16	0.44
1:2:1784:C:H2'	1:2:1785:U:C6	2.52	0.44
7:S5:59:VAL:O	7:S5:60:ASP:HB2	2.16	0.44
26:D4:84:LYS:HD2	26:D4:85:PHE:CE2	2.51	0.44
28:D6:97:PRO:N	28:D6:98:PRO:HD2	2.33	0.44
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.51	0.44
36:1:324:A:H2'	36:1:325:A:C8	2.52	0.44
36:1:409:A:H61	38:4:15:G:H1'	1.82	0.44
36:1:1557:A:H5"	45:L8:54:GLU:OE1	2.17	0.44
36:1:2206:G:H1	36:1:2237:C:N4	2.12	0.44
37:3:45:A:H2'	37:3:46:A:C8	2.52	0.44
38:4:85:G:C8	38:4:85:G:H3'	2.51	0.44
38:4:135:G:H5"	61:N5:49:LYS:HD2	1.98	0.44
39:L2:109:GLU:H	39:L2:109:GLU:HG2	1.46	0.44
53:M7:51:VAL:HG11	53:M7:88:VAL:HG21	1.98	0.44
54:M8:19:PRO:HD3	54:M8:53:PHE:CD1	2.52	0.44
55:M9:45:VAL:HG22	55:M9:50:ILE:HB	2.00	0.44
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.98	0.44
74:O8:42:LYS:HG2	74:O8:55:VAL:HG13	1.99	0.44
3:s1:130:SER:OG	3:s1:180:THR:HG22	2.17	0.44
5:s3:55:THR:CG2	5:s3:90:ARG:HG2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:127:MET:HA	5:s3:127:MET:HE3	1.98	0.44
7:s5:59:VAL:C	7:s5:61:TYR:H	2.26	0.44
15:c3:45:LEU:HA	15:c3:49:GLN:HE21	1.82	0.44
15:c3:91:LEU:HD23	15:c3:91:LEU:HA	1.82	0.44
18:c6:53:LEU:H	18:c6:53:LEU:HG	1.30	0.44
19:c7:34:LEU:O	19:c7:38:ILE:HD13	2.18	0.44
20:c8:20:THR:HG21	20:c8:35:ILE:HG23	1.99	0.44
24:d2:15:ASN:HD21	24:d2:71:LYS:HA	1.81	0.44
26:d4:112:LYS:HE2	26:d4:112:LYS:HB3	1.88	0.44
27:d5:47:TYR:CE1	27:d5:51:LEU:HD11	2.52	0.44
36:5:238:A:H2'	36:5:239:G:O4'	2.17	0.44
36:5:956:U:H2'	36:5:957:C:H6	1.83	0.44
36:5:1021:G:N1	36:5:1032:C:O2	2.49	0.44
36:5:1176:C:H2'	36:5:1177:G:H21	1.82	0.44
36:5:1912:U:N3	36:5:2122:G:OP2	2.49	0.44
36:5:2127:U:O2'	36:5:2301:U:OP1	2.29	0.44
39:l2:70:ARG:NH1	39:l2:72:ARG:HH21	2.15	0.44
40:l3:210:GLU:O	40:l3:213:GLU:HB2	2.17	0.44
40:l3:283:TYR:CE1	40:l3:354:VAL:HG11	2.52	0.44
42:l5:106:ALA:O	42:l5:110:LEU:HB3	2.17	0.44
43:l6:96:VAL:HG13	43:l6:141:VAL:HG13	1.98	0.44
44:l7:140:SER:O	44:l7:144:ILE:HG13	2.17	0.44
52:m6:65:ASN:HB3	52:m6:68:ARG:CD	2.47	0.44
54:m8:120:GLU:CD	54:m8:130:ARG:HH22	2.24	0.44
55:m9:25:ASP:HB3	55:m9:28:GLU:HB2	1.99	0.44
57:n1:85:LEU:HD23	57:n1:85:LEU:HA	1.81	0.44
62:n6:103:LYS:HA	62:n6:103:LYS:HD3	1.47	0.44
64:n8:128:ARG:HB3	72:o6:8:ALA:CB	2.47	0.44
64:n8:133:LEU:O	64:n8:133:LEU:HD22	2.17	0.44
73:o7:8:PHE:O	73:o7:11:ARG:HG3	2.17	0.44
79:q3:59:CYS:SG	79:q3:60:CYS:N	2.90	0.44
1:2:144:U:H5	8:S6:137:ARG:NH1	2.14	0.44
1:2:327:U:H2'	1:2:328:A:H8	1.82	0.44
1:2:477:A:N6	1:2:511:A:H61	2.14	0.44
1:2:1198:G:O3'	31:D9:40:ARG:NH2	2.50	0.44
1:2:1515:A:OP2	5:S3:7:LYS:HB2	2.17	0.44
2:S0:171:GLY:HA3	2:S0:203:PHE:CD2	2.53	0.44
3:S1:61:LEU:HG	3:S1:64:ARG:HH21	1.82	0.44
3:S1:97:LEU:CD1	3:S1:98:THR:H	2.31	0.44
4:S2:143:TYR:O	24:D2:98:GLN:NE2	2.46	0.44
7:S5:222:LYS:HG3	7:S5:225:ARG:NH1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:141:ILE:HG21	8:S6:153:VAL:HG13	2.00	0.44
18:C6:10:PHE:HA	18:C6:18:ALA:O	2.18	0.44
18:C6:67:VAL:HG11	18:C6:81:ILE:HG22	1.99	0.44
19:C7:88:VAL:HB	19:C7:89:SER:H	1.30	0.44
19:C7:110:VAL:O	19:C7:114:GLY:N	2.49	0.44
20:C8:7:GLU:OE2	27:D5:42:LEU:HD21	2.17	0.44
36:1:378:A:N7	36:1:391:A:H2	2.15	0.44
36:1:677:A:H4'	36:1:678:G:O5'	2.17	0.44
36:1:1831:U:O2'	38:4:114:G:OP1	2.20	0.44
36:1:2572:C:O2'	36:1:2573:G:O4'	2.19	0.44
42:L5:178:ASN:HA	42:L5:183:TRP:CD2	2.52	0.44
45:L8:130:TYR:CD1	45:L8:202:GLU:HB3	2.52	0.44
46:L9:190:ASP:OD1	46:L9:191:LEU:HD12	2.17	0.44
55:M9:176:ARG:HA	55:M9:176:ARG:HD3	1.70	0.44
63:N7:29:HIS:O	63:N7:31:GLU:N	2.51	0.44
1:6:150:U:H1'	8:s6:132:ARG:HD2	1.99	0.44
1:6:459:G:OP2	26:d4:105:ARG:NH2	2.39	0.44
1:6:474:A:H5"	11:s9:144:PRO:HD2	1.99	0.44
1:6:1271:G:H2'	1:6:1272:U:O4'	2.18	0.44
2:s0:38:PHE:HB2	2:s0:49:ASN:HB2	1.99	0.44
3:s1:106:THR:O	3:s1:106:THR:OG1	2.35	0.44
3:s1:181:LEU:HD23	3:s1:181:LEU:HA	1.86	0.44
5:s3:167:PHE:O	5:s3:190:ARG:HG2	2.17	0.44
6:s4:95:THR:O	6:s4:97:GLU:HG3	2.18	0.44
7:s5:112:ARG:HH12	18:c6:42:GLU:HG2	1.83	0.44
12:c0:59:PHE:CZ	12:c0:62:GLN:HA	2.53	0.44
17:c5:96:ILE:N	17:c5:103:ASN:O	2.38	0.44
21:c9:16:ASN:HA	21:c9:56:LYS:NZ	2.31	0.44
36:5:612:U:H2'	36:5:613:G:C8	2.51	0.44
36:5:1073:U:H2'	36:5:1074:U:C6	2.52	0.44
36:5:1251:A:H2'	36:5:1252:A:O4'	2.18	0.44
36:5:1805:C:HO2'	70:o4:76:TYR:HD1	1.65	0.44
36:5:2713:U:H3'	78:q2:9:LYS:O	2.18	0.44
36:5:2885:C:O2'	36:5:2886:U:H5'	2.18	0.44
36:5:2943:G:H2'	36:5:2944:U:O4'	2.16	0.44
37:7:13:A:N3	42:l5:24:ARG:NH2	2.57	0.44
39:l2:3:ARG:HB3	39:l2:207:VAL:HG23	1.97	0.44
39:l2:130:SER:HA	39:l2:169:ILE:CG2	2.47	0.44
39:l2:222:ALA:HB1	39:l2:224:THR:HG22	2.00	0.44
40:l3:347:SER:HB3	40:l3:350:ALA:H	1.81	0.44
40:l3:358:TRP:CZ2	40:l3:360:ASP:HA	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:183:TRP:CZ3	42:l5:185:PHE:HA	2.53	0.44
44:l7:33:ARG:HA	44:l7:36:ALA:HB3	1.98	0.44
47:m0:99:ILE:HG12	47:m0:123:HIS:CG	2.52	0.44
49:m3:75:PHE:O	49:m3:79:GLU:HB2	2.18	0.44
61:n5:57:LEU:HD22	61:n5:62:VAL:HG22	2.00	0.44
72:o6:56:ARG:O	72:o6:60:LEU:HD22	2.18	0.44
75:o9:3:ALA:O	75:o9:5:LYS:HE2	2.17	0.44
1:2:46:A:N6	1:2:433:C:H4'	2.33	0.44
1:2:972:G:O2'	36:1:847:A:N1	2.46	0.44
3:S1:109:LYS:O	3:S1:112:SER:OG	2.30	0.44
6:S4:148:ARG:H	6:S4:148:ARG:HG2	1.60	0.44
7:S5:120:ILE:HG23	27:D5:59:TYR:CE1	2.53	0.44
9:S7:143:LEU:HD12	9:S7:147:ASN:HB2	1.99	0.44
14:C2:33:ARG:HA	14:C2:36:LEU:HD12	1.99	0.44
15:C3:29:SER:OG	15:C3:32:SER:OG	2.29	0.44
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	1.98	0.44
19:C7:10:LYS:HG2	19:C7:53:TYR:CE1	2.53	0.44
20:C8:3:LEU:HD23	20:C8:5:VAL:HG13	1.99	0.44
23:D1:59:VAL:HG13	23:D1:64:GLU:HB2	2.00	0.44
36:1:99:A:H5'	51:M5:194:GLN:CD	2.42	0.44
36:1:856:G:C6	36:1:857:G:N1	2.85	0.44
36:1:2138:A:C4	73:O7:3:LYS:HB3	2.52	0.44
36:1:2314:U:H6	36:1:2314:U:H2'	1.43	0.44
36:1:2616:C:C2'	36:1:2617:U:H5'	2.47	0.44
36:1:2946:A:H5"	36:1:2947:G:H5'	2.00	0.44
36:1:3190:C:H2'	36:1:3191:G:C8	2.53	0.44
41:L4:361:HIS:CG	41:L4:362:ASP:H	2.34	0.44
48:M1:101:ASN:OD1	48:M1:101:ASN:N	2.50	0.44
55:M9:23:TRP:O	55:M9:50:ILE:HA	2.18	0.44
57:N1:82:ASN:HA	65:N9:21:ILE:HD13	1.99	0.44
69:O3:38:PRO:HD3	69:O3:77:ASN:O	2.17	0.44
1:6:382:C:H2'	1:6:383:G:O4'	2.17	0.44
1:6:486:G:O2'	1:6:487:G:H5'	2.17	0.44
1:6:904:G:H2'	1:6:905:A:O4'	2.18	0.44
1:6:952:A:O2'	15:c3:114:ARG:HG3	2.17	0.44
1:6:1324:G:N7	86:6:1959:OHX:N2	2.66	0.44
1:6:1685:G:H1	1:6:1716:C:N4	2.15	0.44
1:6:1769:U:O2	16:c4:136:ARG:HD2	2.18	0.44
5:s3:55:THR:HG21	5:s3:90:ARG:HG2	1.99	0.44
8:s6:218:GLU:H	8:s6:218:GLU:HG3	1.52	0.44
14:c2:90:LYS:O	14:c2:91:VAL:HB	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c7:34:LEU:HD22	19:c7:38:ILE:HD12	1.99	0.44
24:d2:111:MET:CE	24:d2:116:ALA:HA	2.47	0.44
27:d5:46:LYS:HE3	27:d5:46:LYS:HB2	1.55	0.44
34:sR:203:THR:OG1	34:sR:204:ALA:N	2.51	0.44
34:sR:228:LYS:HB2	34:sR:228:LYS:HE2	1.63	0.44
36:5:585:A:H2'	36:5:586:C:C6	2.53	0.44
36:5:879:U:O2	36:5:2357:A:H1'	2.17	0.44
36:5:1240:A:H2'	36:5:1241:U:H5'	2.00	0.44
36:5:2736:A:O2'	57:n1:68:THR:HG21	2.18	0.44
36:5:3128:G:OP2	86:5:3656:OHX:N3	2.50	0.44
36:5:3218:A:C2	36:5:3277:U:H1'	2.52	0.44
40:l3:49:TYR:O	40:l3:80:ASP:N	2.51	0.44
40:l3:306:THR:HG21	40:l3:316:GLU:HG2	2.00	0.44
41:l4:193:LYS:HB3	41:l4:193:LYS:HE3	1.68	0.44
41:l4:286:VAL:HG11	54:m8:31:LYS:HD3	1.99	0.44
81:l8:130:TYR:CD1	81:l8:202:GLU:HB3	2.52	0.44
81:l8:160:ILE:HG23	81:l8:164:VAL:HG13	2.00	0.44
46:l9:106:LYS:HE3	46:l9:107:ASP:N	2.32	0.44
51:m5:186:GLY:O	51:m5:189:LYS:N	2.50	0.44
52:m6:16:VAL:CG2	52:m6:43:ILE:HG12	2.48	0.44
61:n5:25:LYS:HB2	61:n5:25:LYS:HE3	1.77	0.44
62:n6:108:LYS:HD3	62:n6:108:LYS:HA	1.88	0.44
66:o0:100:ILE:HG13	66:o0:101:LEU:HD22	1.98	0.44
67:o1:13:THR:CG2	67:o1:72:ARG:HH21	2.30	0.44
1:2:286:C:H2'	1:2:287:G:H5'	1.99	0.44
1:2:480:G:H22	1:2:509:G:H1'	1.83	0.44
1:2:512:A:OP2	11:S9:172:VAL:HB	2.17	0.44
1:2:823:G:O2'	1:2:824:G:O5'	2.35	0.44
1:2:855:A:C2	1:2:857:U:H1'	2.53	0.44
1:2:1409:G:N2	1:2:1411:A:H3'	2.33	0.44
1:2:1424:A:H4'	4:S2:93:GLY:CA	2.47	0.44
1:2:1490:C:H1'	1:2:1491:U:O4'	2.17	0.44
1:2:1590:G:OP1	21:C9:91:TYR:HB2	2.17	0.44
2:S0:20:ALA:HB3	2:S0:172:LEU:HD12	1.99	0.44
3:S1:89:ASP:HB3	3:S1:223:PHE:CE2	2.53	0.44
4:S2:241:ASP:O	4:S2:244:SER:HB3	2.17	0.44
7:S5:161:ASP:O	30:D8:44:VAL:HA	2.17	0.44
11:S9:64:GLU:HG2	11:S9:69:ARG:NH1	2.31	0.44
12:C0:8:ARG:HD2	12:C0:12:HIS:CE1	2.51	0.44
19:C7:71:PHE:HE1	19:C7:73:LEU:HD22	1.81	0.44
26:D4:62:THR:HA	26:D4:69:SER:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:507:U:H2'	36:1:508:U:C6	2.52	0.44
36:1:668:G:OP1	86:1:3651:OHX:N2	2.50	0.44
36:1:1383:G:H2'	36:1:1384:U:O4'	2.17	0.44
36:1:1482:A:H4'	36:1:1483:G:OP2	2.17	0.44
36:1:2376:G:H2'	36:1:2377:G:C8	2.53	0.44
36:1:2973:G:O6	86:1:3630:OHX:N5	2.50	0.44
36:1:3151:U:H4'	36:1:3294:A:C1'	2.47	0.44
36:1:3272:C:P	43:L6:78:ARG:HH12	2.38	0.44
41:L4:135:VAL:HA	41:L4:245:GLY:O	2.18	0.44
41:L4:209:TYR:C	41:L4:254:ALA:HB2	2.42	0.44
42:L5:21:ARG:HA	42:L5:24:ARG:NH2	2.31	0.44
42:L5:258:LYS:HE2	42:L5:258:LYS:HB2	1.67	0.44
46:L9:36:LYS:HE3	46:L9:74:LEU:HD22	1.99	0.44
49:M3:55:ARG:HG3	49:M3:72:GLY:O	2.17	0.44
50:M4:17:VAL:HG12	50:M4:72:LEU:HB3	1.99	0.44
53:M7:10:ASN:HD21	53:M7:12:ALA:HB3	1.81	0.44
61:N5:73:MET:HE1	61:N5:141:TYR:HD1	1.82	0.44
1:6:105:A:OP1	10:s8:18:ARG:NH1	2.51	0.44
1:6:521:A:O3'	26:d4:36:SER:HA	2.18	0.44
1:6:836:U:H2'	1:6:837:G:H8	1.82	0.44
3:s1:55:LYS:HD3	3:s1:55:LYS:HA	1.66	0.44
7:s5:57:SER:CB	30:d8:53:ILE:HB	2.39	0.44
12:c0:45:ALA:O	12:c0:48:SER:OG	2.33	0.44
12:c0:54:TYR:CD2	12:c0:72:GLY:HA2	2.52	0.44
14:c2:83:GLU:C	14:c2:85:LYS:H	2.26	0.44
36:5:856:G:C6	36:5:857:G:N1	2.86	0.44
36:5:2551:U:H3	39:l2:95:SER:HG	1.65	0.44
36:5:2816:G:H1	36:5:2820:A:H62	1.66	0.44
36:5:3288:G:C4	36:5:3289:G:C8	3.04	0.44
47:m0:68:ALA:HB2	47:m0:158:LYS:HB2	2.00	0.44
47:m0:208:ASN:O	47:m0:212:GLU:HB2	2.18	0.44
49:m3:144:THR:C	49:m3:146:PRO:HD3	2.43	0.44
55:m9:109:TYR:CD2	55:m9:114:LYS:HD2	2.52	0.44
67:o1:46:THR:HG21	67:o1:91:SER:HB2	1.99	0.44
68:o2:55:ILE:HD12	68:o2:55:ILE:HA	1.85	0.44
68:o2:64:LYS:HG2	68:o2:65:PHE:CE2	2.53	0.44
70:o4:7:PHE:CE1	70:o4:20:ILE:HG13	2.53	0.44
1:2:380:U:C6	11:S9:5:PRO:HG3	2.53	0.44
1:2:605:A:OP2	1:2:606:A:O2'	2.32	0.44
1:2:619:A:H5'	1:2:620:A:OP2	2.17	0.44
1:2:768:C:C2	11:S9:143:ILE:HG12	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:884:A:H2'	1:2:885:G:C8	2.53	0.44
1:2:1172:G:H4'	1:2:1569:A:H2	1.83	0.44
2:S0:140:ASN:OD1	4:S2:62:PRO:HD3	2.18	0.44
6:S4:246:LEU:HD12	6:S4:246:LEU:H	1.83	0.44
10:S8:5:ARG:NH1	10:S8:29:LEU:O	2.43	0.44
12:C0:15:LEU:HD22	12:C0:46:LEU:HD11	1.99	0.44
19:C7:46:LEU:HD22	19:C7:50:ILE:HG13	1.99	0.44
26:D4:112:LYS:O	26:D4:116:LYS:HG3	2.18	0.44
36:1:213:A:H2'	36:1:214:G:O4'	2.17	0.44
36:1:952:A:O3'	36:1:968:G:N2	2.50	0.44
36:1:1184:A:O2'	36:1:1185:C:H5'	2.18	0.44
36:1:1295:G:OP1	56:N0:84:ARG:HG3	2.17	0.44
36:1:1481:A:O2'	36:1:1858:A:N3	2.35	0.44
36:1:1818:U:H2'	36:1:1819:U:O4'	2.18	0.44
36:1:2213:A:N1	36:1:2429:G:H1'	2.33	0.44
36:1:2233:A:H2'	36:1:2234:G:O4'	2.18	0.44
36:1:2899:C:O2'	36:1:2901:G:OP2	2.25	0.44
37:3:40:C:O2'	48:M1:72:ARG:HG3	2.17	0.44
38:4:15:G:C6	38:4:16:G:N1	2.86	0.44
38:4:70:G:H5"	62:N6:28:ARG:NH2	2.33	0.44
40:L3:21:ARG:HG2	40:L3:269:GLN:HG2	2.00	0.44
40:L3:79:VAL:O	40:L3:81:THR:OG1	2.33	0.44
40:L3:169:THR:CG2	40:L3:171:LEU:H	2.30	0.44
41:L4:108:LYS:HE2	41:L4:108:LYS:HB3	1.48	0.44
41:L4:120:TYR:CE2	41:L4:277:PRO:HB3	2.53	0.44
41:L4:354:VAL:O	41:L4:358:THR:HG23	2.18	0.44
45:L8:41:GLN:HG3	45:L8:44:ARG:NH1	2.33	0.44
45:L8:136:LEU:HD13	51:M5:3:ALA:CB	2.47	0.44
49:M3:50:PRO:C	49:M3:52:ASP:H	2.23	0.44
53:M7:36:ILE:HG12	53:M7:44:ALA:HB1	1.99	0.44
64:N8:88:ASP:HA	64:N8:91:LEU:HD23	1.99	0.44
64:N8:90:TYR:CG	64:N8:100:PRO:HG3	2.52	0.44
1:6:932:U:O2	28:d6:32:LYS:NZ	2.30	0.44
1:6:1711:C:H2'	1:6:1712:A:H5"	1.99	0.44
4:s2:35:TRP:O	4:s2:46:LYS:HE2	2.18	0.44
5:s3:141:LYS:HB3	5:s3:144:ALA:HA	2.00	0.44
24:d2:7:LEU:HD22	24:d2:11:LEU:HG	1.99	0.44
34:sR:214:ALA:HB2	34:sR:220:ILE:HA	1.99	0.44
36:5:40:A:OP2	64:n8:36:GLY:N	2.48	0.44
36:5:271:C:H2'	36:5:272:G:O4'	2.17	0.44
36:5:284:A:H4'	36:5:285:A:C2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:789:A:H2'	36:5:790:U:H6	1.80	0.44
36:5:1015:U:O3'	36:5:1016:C:H2'	2.17	0.44
36:5:1415:U:H2'	36:5:1416:C:O4'	2.18	0.44
36:5:2166:A:OP1	51:m5:76:PRO:HA	2.16	0.44
36:5:2321:A:H2'	36:5:2322:C:O4'	2.18	0.44
36:5:2816:G:C8	36:5:2869:U:H3'	2.53	0.44
36:5:3041:U:OP1	59:n3:12:ARG:NH1	2.49	0.44
42:l5:179:ARG:HD3	42:l5:179:ARG:HA	1.80	0.44
81:l8:231:LYS:HB2	81:l8:231:LYS:HE3	1.74	0.44
50:m4:20:VAL:HG13	50:m4:68:LEU:O	2.18	0.44
51:m5:48:ALA:C	51:m5:53:TYR:HB3	2.43	0.44
58:n2:58:GLU:HB2	58:n2:63:VAL:HG13	2.00	0.44
59:n3:54:LEU:HD21	59:n3:119:GLY:HA3	2.00	0.44
70:o4:46:ASP:CG	70:o4:80:ARG:HD2	2.42	0.44
1:2:143:G:H2'	1:2:144:U:H5"	2.00	0.44
1:2:498:G:C5	1:2:499:U:O4	2.71	0.44
1:2:867:G:OP2	15:C3:3:ARG:NH1	2.50	0.44
1:2:1010:C:H2'	1:2:1011:G:O4'	2.17	0.44
2:S0:117:GLU:OE1	4:S2:40:LYS:HG3	2.18	0.44
3:S1:172:LEU:O	3:S1:176:VAL:HG23	2.17	0.44
5:S3:12:VAL:HG21	31:D9:34:TYR:HB3	1.99	0.44
10:S8:106:ALA:CB	10:S8:165:LEU:HG	2.47	0.44
15:C3:62:GLN:O	15:C3:65:VAL:HG23	2.18	0.44
19:C7:85:VAL:HG22	19:C7:86:PRO:CA	2.45	0.44
25:D3:43:PHE:CE1	25:D3:49:ALA:HB3	2.53	0.44
27:D5:42:LEU:HD12	27:D5:43:ASP:H	1.82	0.44
27:D5:70:LYS:C	27:D5:71:ILE:HG13	2.42	0.44
27:D5:82:HIS:O	27:D5:85:LYS:HB3	2.17	0.44
34:SR:61:PHE:HD1	34:SR:92:TRP:CE3	2.36	0.44
34:SR:64:HIS:ND1	34:SR:86:ASP:OD2	2.36	0.44
36:1:429:U:H4'	69:O3:88:ASN:O	2.18	0.44
36:1:685:G:OP1	49:M3:35:ARG:NH1	2.48	0.44
36:1:1299:U:H2'	36:1:1300:G:O4'	2.18	0.44
36:1:1301:A:H8	36:1:1301:A:OP1	2.01	0.44
36:1:1317:A:C4	36:1:1319:G:C8	3.06	0.44
42:L5:55:PHE:CE2	42:L5:158:ARG:HG3	2.53	0.44
42:L5:251:PRO:O	42:L5:253:PHE:N	2.50	0.44
44:L7:120:THR:O	44:L7:124:LEU:N	2.47	0.44
44:L7:179:LEU:HD22	44:L7:183:ASP:OD2	2.17	0.44
46:L9:163:GLN:O	46:L9:166:ARG:HD3	2.17	0.44
50:M4:21:VAL:HG13	50:M4:63:VAL:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:102:ALA:O	51:M5:106:VAL:HG12	2.18	0.44
52:M6:113:ASP:O	52:M6:117:ARG:NH1	2.44	0.44
53:M7:180:LYS:NZ	53:M7:180:LYS:HB3	2.33	0.44
55:M9:96:ILE:O	55:M9:100:ARG:HG3	2.18	0.44
55:M9:99:LEU:O	55:M9:103:ARG:HB2	2.17	0.44
58:N2:13:LYS:O	58:N2:66:VAL:HA	2.17	0.44
63:N7:101:PHE:HA	63:N7:107:ARG:HE	1.82	0.44
70:O4:42:PRO:HB2	70:O4:51:LEU:HD21	1.99	0.44
1:6:127:G:H21	1:6:178:U:H1'	1.83	0.44
1:6:346:G:O6	86:6:2011:OHX:N2	2.51	0.44
1:6:570:A:H5"	1:6:571:G:OP2	2.18	0.44
1:6:648:G:C2	1:6:687:G:C2	3.06	0.44
1:6:1174:C:C4	1:6:1175:U:C4	3.06	0.44
3:s1:103:MET:HB3	3:s1:215:VAL:HG13	2.00	0.44
5:s3:108:LYS:O	5:s3:113:LEU:HB2	2.18	0.44
7:s5:222:LYS:HA	7:s5:225:ARG:HH11	1.83	0.44
11:s9:117:GLY:C	11:s9:119:ALA:H	2.25	0.44
17:c5:92:SER:O	17:c5:106:GLU:HA	2.17	0.44
23:d1:64:GLU:HB3	29:d7:3:LEU:HD12	2.00	0.44
29:d7:61:THR:OG1	29:d7:62:ILE:N	2.50	0.44
36:5:112:U:O2'	36:5:113:C:H5"	2.18	0.44
36:5:340:C:O2'	36:5:341:G:H5'	2.18	0.44
36:5:524:U:OP1	50:m4:77:ARG:NH2	2.51	0.44
36:5:1103:A:N3	36:5:1103:A:H2'	2.33	0.44
36:5:1138:U:H2'	36:5:1139:G:O4'	2.17	0.44
36:5:1160:C:N3	68:o2:45:ARG:NH1	2.65	0.44
36:5:1249:G:H2'	36:5:1250:G:C8	2.53	0.44
36:5:1691:U:H2'	36:5:1692:U:H6	1.82	0.44
36:5:1855:U:H2'	36:5:1856:C:C6	2.53	0.44
36:5:2417:U:O4	86:5:3670:OHX:N3	2.51	0.44
36:5:2805:G:N3	36:5:2967:A:H2	2.15	0.44
39:l2:169:ILE:HG22	39:l2:170:ALA:O	2.17	0.44
41:l4:39:PHE:CE1	41:l4:236:LEU:HD23	2.52	0.44
81:l8:134:TYR:H	81:l8:134:TYR:HD2	1.66	0.44
46:l9:12:VAL:HB	46:l9:51:GLN:HA	1.99	0.44
46:l9:101:VAL:HG22	46:l9:114:VAL:HG22	2.00	0.44
49:m3:46:ILE:O	49:m3:49:ARG:HB2	2.17	0.44
49:m3:131:LYS:HD3	49:m3:131:LYS:H	1.81	0.44
54:m8:155:MET:HE2	54:m8:163:PRO:HA	2.00	0.44
63:n7:27:LYS:HD2	63:n7:27:LYS:HA	1.87	0.44
68:o2:4:LEU:HB3	68:o2:5:PRO:CD	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:o2:47:ARG:HG2	68:o2:48:GLY:N	2.32	0.44
74:o8:75:VAL:HG12	74:o8:77:ARG:HG2	1.99	0.44
1:2:130:C:H2'	1:2:131:C:C6	2.53	0.44
9:S7:62:VAL:HG22	9:S7:70:PHE:CE2	2.53	0.44
14:C2:75:VAL:HG21	14:C2:120:VAL:HG21	2.00	0.44
15:C3:4:MET:HG3	15:C3:5:HIS:N	2.33	0.44
17:C5:13:LYS:HA	17:C5:13:LYS:HD2	1.86	0.44
17:C5:86:VAL:O	17:C5:89:MET:HG3	2.17	0.44
21:C9:66:TYR:HD1	21:C9:67:MET:HE3	1.83	0.44
22:D0:28:SER:OG	22:D0:29:THR:N	2.50	0.44
23:D1:71:ARG:O	23:D1:75:ASN:HB3	2.17	0.44
28:D6:23:CYS:SG	28:D6:74:CYS:HB3	2.58	0.44
28:D6:54:SER:HA	28:D6:57:SER:HB2	1.99	0.44
36:1:282:G:C8	36:1:282:G:H3'	2.52	0.44
36:1:597:G:H2'	36:1:598:A:C8	2.53	0.44
36:1:820:A:OP1	86:1:3479:OHX:N5	2.51	0.44
36:1:1507:G:H5'	36:1:1507:G:N3	2.33	0.44
36:1:2258:U:H2'	36:1:2259:A:O4'	2.16	0.44
36:1:3275:U:O4'	69:O3:66:VAL:HG21	2.18	0.44
38:4:37:A:H5"	38:4:39:G:O4'	2.17	0.44
42:L5:280:GLU:H	42:L5:280:GLU:CD	2.26	0.44
47:M0:178:ARG:H	47:M0:178:ARG:HG2	1.40	0.44
48:M1:54:VAL:O	48:M1:55:ARG:HB3	2.18	0.44
49:M3:119:TYR:O	49:M3:123:ILE:HG23	2.18	0.44
51:M5:23:GLN:HG2	51:M5:122:ASN:ND2	2.32	0.44
51:M5:135:VAL:CG1	51:M5:142:ILE:HG12	2.48	0.44
60:N4:9:SER:HA	60:N4:52:THR:HG23	2.00	0.44
74:O8:18:ALA:C	74:O8:20:VAL:H	2.26	0.44
76:Q0:110:CYS:SG	76:Q0:112:LYS:HB2	2.58	0.44
1:6:276:C:H1'	1:6:277:U:C5	2.53	0.44
1:6:578:U:H4'	1:6:579:A:H5'	1.99	0.44
1:6:1499:G:OP2	21:c9:73:VAL:HG23	2.18	0.44
2:s0:169:SER:O	2:s0:173:ILE:HG12	2.17	0.44
5:s3:115:ILE:H	5:s3:115:ILE:HG13	1.43	0.44
9:s7:51:VAL:HG12	9:s7:53:GLY:H	1.83	0.44
20:c8:136:GLN:H	20:c8:136:GLN:HG2	1.63	0.44
29:d7:31:TYR:CE2	29:d7:48:SER:HB3	2.52	0.44
80:sM:31:SER:OG	36:5:2667:A:OP1	2.27	0.44
36:5:419:G:N2	38:8:5:U:C2	2.86	0.44
36:5:595:G:H1	36:5:609:G:H5"	1.82	0.44
36:5:792:G:H2'	36:5:793:C:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2259:A:OP2	86:5:3449:OHX:N1	2.51	0.44
36:5:2655:U:H2'	78:q2:3:ASN:O	2.17	0.44
38:8:47:C:H1'	38:8:61:A:H2'	1.99	0.44
40:l3:265:ALA:C	40:l3:266:ARG:HG2	2.43	0.44
41:l4:93:MET:N	41:l4:93:MET:HE2	2.33	0.44
41:l4:329:PRO:C	41:l4:331:ALA:H	2.25	0.44
81:l8:136:LEU:HA	81:l8:136:LEU:HD23	1.82	0.44
46:l9:162:GLN:HG3	46:l9:163:GLN:N	2.33	0.44
48:m1:106:ILE:O	48:m1:106:ILE:HG12	2.16	0.44
51:m5:45:PRO:O	51:m5:49:ARG:HB2	2.18	0.44
83:n4:82:ILE:O	83:n4:83:THR:OG1	2.35	0.44
70:o4:20:ILE:HD11	70:o4:34:HIS:CE1	2.53	0.44
76:q0:77:ILE:HG23	76:q0:78:ILE:HG22	1.99	0.44
76:q0:82:LEU:HD23	76:q0:82:LEU:HA	1.76	0.44
78:q2:28:TYR:HB3	78:q2:69:VAL:HB	1.98	0.44
1:2:560:U:H2'	1:2:561:G:C8	2.53	0.44
1:2:637:C:OP1	24:D2:32:LYS:HG3	2.18	0.44
1:2:960:U:H2'	1:2:961:U:H6	1.82	0.44
1:2:989:U:H2'	1:2:990:C:C6	2.52	0.44
1:2:1780:G:H1'	36:1:2262:A:O3'	2.17	0.44
3:S1:32:ILE:HD11	3:S1:46:THR:HG23	2.00	0.44
3:S1:171:ILE:HD12	3:S1:197:ILE:HD13	2.00	0.44
4:S2:83:ILE:HD11	4:S2:125:ILE:HD11	1.99	0.44
5:S3:136:VAL:HB	5:S3:152:PHE:HB2	2.00	0.44
14:C2:91:VAL:HG12	14:C2:92:ALA:N	2.27	0.44
15:C3:135:LEU:HA	15:C3:135:LEU:HD23	1.73	0.44
21:C9:14:PHE:CD2	21:C9:63:ARG:HD3	2.53	0.44
23:D1:64:GLU:O	23:D1:68:SER:HB2	2.16	0.44
27:D5:60:VAL:CG2	27:D5:101:TYR:HB2	2.48	0.44
27:D5:89:ILE:HB	27:D5:101:TYR:CB	2.48	0.44
36:1:280:U:H4'	51:M5:182:ASN:ND2	2.33	0.44
36:1:342:A:N1	36:1:349:A:O2'	2.40	0.44
36:1:343:U:O2	36:1:1439:U:H1'	2.18	0.44
36:1:669:U:H1'	36:1:1110:U:H4'	1.99	0.44
36:1:781:G:OP1	54:M8:151:ARG:HD2	2.18	0.44
36:1:1019:G:H2'	36:1:1020:G:O4'	2.18	0.44
36:1:1382:G:P	41:L4:188:ARG:HH12	2.40	0.44
36:1:1674:G:OP2	86:1:3485:OHX:N2	2.51	0.44
36:1:1675:G:H2'	36:1:1676:A:H8	1.82	0.44
36:1:1789:G:O6	86:1:3691:OHX:N2	2.51	0.44
36:1:1809:A:H2'	36:1:1810:A:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2666:C:OP2	36:1:2687:G:N1	2.36	0.44
36:1:2984:C:H2'	36:1:2985:C:H6	1.83	0.44
36:1:3015:G:N2	36:1:3040:A:H1'	2.32	0.44
42:L5:7:ALA:HA	42:L5:8:LYS:HD2	2.00	0.44
42:L5:160:PHE:CD2	42:L5:179:ARG:HB3	2.53	0.44
43:L6:18:LEU:HD22	43:L6:18:LEU:H	1.81	0.44
47:M0:210:ILE:HA	47:M0:217:PHE:CE2	2.53	0.44
51:M5:135:VAL:HG13	51:M5:142:ILE:HG12	1.99	0.44
53:M7:41:LEU:HD23	53:M7:95:LEU:HD22	1.99	0.44
63:N7:9:LYS:HD2	63:N7:83:THR:O	2.18	0.44
63:N7:24:VAL:HG11	63:N7:87:LEU:HD23	1.99	0.44
68:O2:75:LEU:HD23	68:O2:75:LEU:HA	1.71	0.44
69:O3:52:VAL:HG21	69:O3:99:ARG:NH1	2.33	0.44
70:O4:74:ARG:CZ	70:O4:82:ALA:HB2	2.48	0.44
1:6:1091:A:H4'	1:6:1092:A:O5'	2.18	0.44
1:6:1699:G:N2	1:6:1702:A:O4'	2.51	0.44
7:s5:42:LEU:HB2	7:s5:45:LYS:HD3	2.00	0.44
7:s5:225:ARG:NH1	30:d8:58:GLU:OE1	2.51	0.44
9:s7:49:ILE:HG22	9:s7:175:LYS:HD3	2.00	0.44
9:s7:112:ARG:NH2	9:s7:117:THR:OG1	2.51	0.44
9:s7:162:ILE:O	9:s7:165:LYS:N	2.47	0.44
11:s9:125:ALA:O	11:s9:129:ILE:HG13	2.18	0.44
18:c6:57:LEU:HD12	18:c6:57:LEU:H	1.83	0.44
22:d0:34:LEU:HD21	22:d0:89:ARG:NH1	2.32	0.44
24:d2:41:MET:HG2	24:d2:129:VAL:HG11	1.99	0.44
34:sR:5:GLU:HA	34:sR:317:THR:HA	2.00	0.44
34:sR:54:PHE:CE2	34:sR:312:VAL:HG11	2.52	0.44
36:5:121:A:C2	81:l8:129:PRO:HB3	2.53	0.44
36:5:848:A:C5	36:5:849:C:H1'	2.52	0.44
36:5:3185:U:O2	56:n0:169:SER:HA	2.18	0.44
36:5:3308:C:N3	53:m7:69:ARG:NH1	2.66	0.44
37:7:28:C:OP1	48:m1:137:ARG:HD3	2.18	0.44
37:7:36:C:O2	37:7:45:A:H1'	2.18	0.44
53:m7:25:SER:OG	53:m7:28:ASN:HB2	2.18	0.44
54:m8:83:VAL:O	54:m8:103:ALA:HA	2.17	0.44
56:n0:151:PRO:C	56:n0:153:PRO:HD3	2.42	0.44
63:n7:51:LEU:HD12	63:n7:65:ARG:HD2	1.98	0.44
84:p0:67:LEU:HD11	84:p0:74:GLU:HB2	2.00	0.44
1:2:485:A:H2'	1:2:486:G:O4'	2.18	0.43
1:2:1320:U:O2	1:2:1322:A:H5'	2.18	0.43
1:2:1325:A:H2'	1:2:1326:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:118:PRO:HB2	2:S0:120:LEU:O	2.18	0.43
3:S1:70:LEU:CD1	3:S1:79:HIS:HB3	2.48	0.43
6:S4:55:ALA:HB2	6:S4:64:ILE:HD11	2.00	0.43
7:S5:69:PHE:CE2	18:C6:53:LEU:HD12	2.53	0.43
12:C0:55:VAL:HA	12:C0:69:THR:HG23	1.98	0.43
19:C7:19:ARG:HG3	19:C7:20:TYR:CE1	2.53	0.43
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.53	0.43
25:D3:48:HIS:CD2	25:D3:105:ALA:HB2	2.53	0.43
28:D6:79:ILE:HA	28:D6:84:VAL:CG2	2.48	0.43
32:E0:28:LYS:HZ2	32:E0:31:LYS:HE2	1.83	0.43
36:1:595:G:H2'	36:1:596:C:H6	1.82	0.43
36:1:729:C:H2'	36:1:730:C:H6	1.83	0.43
36:1:1146:C:H4'	36:1:1331:U:C4	2.52	0.43
36:1:1155:C:O2'	36:1:1197:A:N1	2.38	0.43
36:1:1487:G:H1	36:1:1855:U:H3	1.66	0.43
36:1:1811:G:H2'	36:1:1812:G:O4'	2.18	0.43
36:1:1812:G:O3'	36:1:1817:G:O2'	2.36	0.43
36:1:1902:G:C6	36:1:1903:U:C2	3.06	0.43
46:L9:17:THR:HG21	50:M4:3:THR:HB	2.00	0.43
48:M1:11:ASP:HB3	48:M1:12:LEU:H	1.59	0.43
49:M3:71:ALA:HB2	49:M3:147:ILE:HD12	1.98	0.43
70:O4:99:LYS:O	70:O4:103:LYS:HG2	2.18	0.43
1:6:369:A:O2'	1:6:371:G:OP2	2.31	0.43
1:6:731:C:O5'	1:6:731:C:H6	2.01	0.43
1:6:955:A:H2'	1:6:956:C:O4'	2.18	0.43
1:6:1345:A:OP1	22:d0:52:LYS:HD2	2.18	0.43
1:6:1391:A:H2'	1:6:1392:U:H6	1.82	0.43
2:s0:56:LYS:HZ2	2:s0:158:VAL:HA	1.82	0.43
3:s1:126:THR:HG21	3:s1:136:ARG:HH21	1.83	0.43
7:s5:43:PHE:N	7:s5:46:TRP:H	2.16	0.43
7:s5:89:ILE:H	7:s5:89:ILE:HG13	1.50	0.43
9:s7:98:ILE:HD13	9:s7:118:LEU:HD22	1.99	0.43
11:s9:97:LEU:HA	11:s9:97:LEU:HD23	1.73	0.43
11:s9:129:ILE:HA	11:s9:134:ILE:HG12	1.99	0.43
14:c2:74:LEU:HD11	33:e1:106:TYR:HB2	2.00	0.43
16:c4:131:GLY:O	16:c4:133:ARG:N	2.40	0.43
22:d0:72:ASN:ND2	22:d0:73:GLY:N	2.65	0.43
24:d2:18:GLU:HG2	24:d2:65:LEU:HG	2.00	0.43
26:d4:44:LEU:HA	26:d4:47:VAL:HG13	2.00	0.43
33:e1:118:ARG:HB3	33:e1:119:ARG:H	1.68	0.43
36:5:501:A:H2'	36:5:502:U:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1098:A:OP2	57:n1:130:ARG:HD3	2.18	0.43
36:5:1214:U:H2'	36:5:1215:U:C6	2.52	0.43
36:5:2309:A:N3	36:5:2961:G:O2'	2.49	0.43
36:5:2549:G:C5	81:l8:33:ASN:O	2.71	0.43
36:5:2606:G:H2'	36:5:2606:G:N3	2.33	0.43
36:5:2653:C:OP2	78:q2:88:CYS:HA	2.18	0.43
36:5:2688:U:OP1	42:l5:12:TYR:OH	2.22	0.43
36:5:2915:U:C5	40:l3:7:GLU:HG2	2.52	0.43
86:5:3479:OHX:N4	86:5:3691:OHX:N1	2.65	0.43
39:l2:206:PRO:HG3	39:l2:213:GLY:HA2	2.00	0.43
40:l3:293:ASN:HB2	40:l3:305:ILE:H	1.82	0.43
41:l4:20:LEU:HD11	41:l4:252:GLU:HG3	2.00	0.43
42:l5:143:LYS:HG3	42:l5:172:TYR:HD2	1.83	0.43
53:m7:69:ARG:HG2	53:m7:79:THR:CG2	2.35	0.43
55:m9:88:ARG:H	55:m9:88:ARG:HG2	1.64	0.43
67:o1:70:ARG:HE	67:o1:102:LYS:HE2	1.83	0.43
69:o3:49:ILE:HG23	69:o3:100:ILE:HG13	2.00	0.43
73:o7:65:ARG:HG3	73:o7:65:ARG:HH11	1.81	0.43
1:2:372:G:H1'	1:2:612:U:O2	2.17	0.43
1:2:651:G:C2	1:2:684:A:C6	3.06	0.43
1:2:735:C:H2'	1:2:735:C:OP2	2.18	0.43
1:2:843:U:H2'	1:2:844:A:H8	1.82	0.43
1:2:947:U:H2'	1:2:948:G:C8	2.53	0.43
1:2:1120:U:H2'	1:2:1121:C:C6	2.53	0.43
1:2:1166:A:H2'	1:2:1167:G:O4'	2.18	0.43
1:2:1565:C:H2'	1:2:1566:U:O4'	2.18	0.43
1:2:1680:G:O6	86:2:1983:OHX:N5	2.51	0.43
4:S2:40:LYS:HA	4:S2:43:ARG:HH11	1.83	0.43
6:S4:120:SER:O	6:S4:164:LEU:HB2	2.17	0.43
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.83	0.43
9:S7:28:GLU:O	9:S7:35:LYS:HD3	2.18	0.43
12:C0:11:ILE:HD11	12:C0:42:VAL:HG22	2.00	0.43
24:D2:79:PHE:O	24:D2:124:LYS:HA	2.18	0.43
26:D4:3:ASP:O	26:D4:5:VAL:N	2.51	0.43
27:D5:60:VAL:HG21	27:D5:89:ILE:HG22	2.00	0.43
30:D8:61:ARG:HG2	30:D8:62:GLU:N	2.33	0.43
34:SR:242:SER:O	34:SR:292:LEU:HD21	2.17	0.43
35:SM:61:ILE:HD12	35:SM:62:ARG:N	2.33	0.43
36:1:796:U:H2'	36:1:797:U:C6	2.54	0.43
36:1:1668:G:C6	36:1:1669:C:C4	3.06	0.43
36:1:2104:A:H2'	36:1:2105:G:H8	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2223:A:H2'	36:1:2224:A:C8	2.53	0.43
36:1:2794:G:O2'	36:1:2795:U:OP2	2.30	0.43
36:1:3037:U:H2'	36:1:3038:U:H6	1.82	0.43
36:1:3353:G:O2'	36:1:3356:G:OP2	2.36	0.43
37:3:43:U:H4'	48:M1:140:ARG:O	2.18	0.43
37:3:79:A:C2	37:3:102:A:C4	3.06	0.43
40:L3:151:ILE:O	40:L3:155:ALA:HB3	2.18	0.43
42:L5:85:ARG:HD2	42:L5:86:TYR:CZ	2.53	0.43
42:L5:85:ARG:HH21	42:L5:254:LYS:H	1.65	0.43
44:L7:136:TYR:CE2	44:L7:231:ASN:HB2	2.54	0.43
47:M0:51:HIS:HB3	47:M0:134:ILE:HG23	1.99	0.43
48:M1:82:ARG:CG	48:M1:112:LEU:HB2	2.42	0.43
49:M3:175:SER:O	49:M3:178:LYS:N	2.50	0.43
50:M4:21:VAL:CG2	50:M4:65:LEU:HD23	2.48	0.43
51:M5:106:VAL:O	51:M5:109:ARG:N	2.51	0.43
52:M6:14:HIS:O	52:M6:41:LEU:HD12	2.19	0.43
56:N0:42:TRP:O	56:N0:46:GLN:HG3	2.18	0.43
56:N0:155:ARG:HD3	56:N0:172:TYR:CG	2.52	0.43
67:O1:27:LYS:C	67:O1:30:PRO:HD2	2.42	0.43
1:6:163:G:H8	1:6:163:G:O5'	2.01	0.43
3:s1:70:LEU:HB2	3:s1:82:ARG:O	2.18	0.43
4:s2:237:VAL:HB	4:s2:242:ILE:HD11	2.00	0.43
28:d6:61:GLU:O	28:d6:62:TYR:HB3	2.18	0.43
36:5:1576:G:H5'	36:5:1577:G:OP2	2.18	0.43
36:5:1815:U:O2'	36:5:1816:A:P	2.77	0.43
38:8:120:C:H2'	38:8:121:U:O4'	2.18	0.43
40:l3:122:TRP:CH2	40:l3:127:LYS:HG2	2.52	0.43
40:l3:236:LYS:HG3	40:l3:237:LYS:O	2.18	0.43
40:l3:376:LYS:HG2	40:l3:380:MET:HG3	1.99	0.43
41:l4:328:ASN:C	41:l4:329:PRO:O	2.61	0.43
42:l5:88:ILE:HD13	42:l5:240:TYR:HE1	1.83	0.43
42:l5:211:LEU:HD23	42:l5:211:LEU:HA	1.81	0.43
42:l5:271:LYS:HA	42:l5:271:LYS:HD3	1.72	0.43
43:l6:90:LYS:HB2	43:l6:90:LYS:HE3	1.85	0.43
44:l7:214:TRP:CZ2	44:l7:219:LYS:HE3	2.53	0.43
81:l8:33:ASN:O	81:l8:35:GLY:N	2.51	0.43
81:l8:41:GLN:HG3	81:l8:42:PRO:HD2	1.99	0.43
47:m0:194:GLY:C	47:m0:196:PHE:H	2.25	0.43
52:m6:16:VAL:HG21	52:m6:43:ILE:HG12	2.00	0.43
52:m6:23:VAL:CG1	52:m6:84:LEU:HD11	2.48	0.43
61:n5:37:THR:HG23	61:n5:38:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:o2:12:LYS:NZ	68:o2:58:GLY:O	2.47	0.43
73:o7:28:HIS:CE1	73:o7:31:LYS:HG3	2.53	0.43
1:2:241:U:H5'	1:2:242:U:OP2	2.18	0.43
1:2:952:A:O2'	15:C3:114:ARG:HG3	2.18	0.43
1:2:1067:C:H2'	1:2:1068:C:C6	2.53	0.43
1:2:1354:G:C2	1:2:1372:U:C4	3.06	0.43
1:2:1364:G:N2	21:C9:3:GLY:HA3	2.33	0.43
1:2:1597:A:H2'	1:2:1598:U:H6	1.83	0.43
1:2:1597:A:OP1	31:D9:19:ARG:NH2	2.51	0.43
2:S0:185:ARG:H	23:D1:44:ARG:HA	1.82	0.43
3:S1:88:VAL:HG11	3:S1:96:LEU:HD12	2.00	0.43
4:S2:222:TYR:OH	23:D1:11:LEU:O	2.33	0.43
9:S7:35:LYS:NZ	9:S7:39:ARG:HD2	2.33	0.43
11:S9:34:PHE:CD1	11:S9:105:LEU:HB3	2.54	0.43
16:C4:24:ASN:O	16:C4:25:ASP:HB2	2.17	0.43
17:C5:68:PRO:HG2	17:C5:71:GLU:OE2	2.19	0.43
24:D2:86:ILE:HD12	24:D2:87:GLU:N	2.33	0.43
28:D6:10:ARG:NE	28:D6:35:ALA:O	2.51	0.43
28:D6:12:LYS:HB2	28:D6:33:ASP:OD2	2.18	0.43
35:SM:107:ASN:CG	35:SM:112:ASP:HB3	2.43	0.43
36:1:947:G:H2'	36:1:948:C:C6	2.53	0.43
36:1:1433:A:P	68:O2:19:ARG:HH22	2.42	0.43
36:1:1491:A:H5'	73:O7:12:HIS:O	2.18	0.43
36:1:2284:C:H5"	36:1:2285:C:OP2	2.18	0.43
36:1:2291:A:H2'	36:1:2292:U:C6	2.53	0.43
36:1:2916:U:H5	36:1:2935:U:HO2'	1.62	0.43
37:3:115:G:N2	42:L5:72:ASP:H	2.16	0.43
38:4:151:C:C4	61:N5:24:LEU:HD11	2.53	0.43
42:L5:234:ASP:OD2	42:L5:234:ASP:N	2.45	0.43
49:M3:131:LYS:H	49:M3:131:LYS:HG2	1.52	0.43
52:M6:79:ILE:HG21	52:M6:138:LEU:HD11	2.00	0.43
60:N4:9:SER:HA	60:N4:52:THR:CG2	2.48	0.43
61:N5:108:LEU:HD23	61:N5:108:LEU:HA	1.84	0.43
63:N7:17:ARG:HG3	70:O4:73:SER:HB3	2.00	0.43
64:N8:116:GLY:HA2	64:N8:137:LYS:NZ	2.33	0.43
72:O6:4:LYS:HD2	72:O6:14:GLY:HA3	1.99	0.43
72:O6:98:ARG:H	72:O6:98:ARG:HD2	1.82	0.43
1:6:15:U:H2'	1:6:16:G:O4'	2.18	0.43
1:6:400:A:H2'	10:s8:24:LYS:O	2.18	0.43
1:6:694:U:P	1:6:694:U:H6	2.41	0.43
1:6:1029:U:OP2	28:d6:12:LYS:NZ	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1557:U:O2'	1:6:1558:U:H2'	2.18	0.43
1:6:1590:G:H2'	1:6:1591:C:H6	1.83	0.43
1:6:1698:G:H1'	1:6:1699:G:OP1	2.18	0.43
5:s3:90:ARG:HB3	5:s3:91:VAL:H	1.67	0.43
9:s7:63:PRO:C	9:s7:65:PRO:HD2	2.43	0.43
10:s8:193:LEU:O	10:s8:197:THR:HG23	2.18	0.43
17:c5:65:LEU:O	86:c5:201:OHX:N2	2.51	0.43
18:c6:21:HIS:N	18:c6:66:ARG:O	2.51	0.43
27:d5:88:ILE:HD13	27:d5:88:ILE:HA	1.86	0.43
29:d7:34:ASP:O	29:d7:79:PHE:HA	2.18	0.43
36:5:231:G:O6	86:5:3633:OHX:N4	2.51	0.43
36:5:419:G:N7	86:5:3407:OHX:N3	2.66	0.43
36:5:796:U:H2'	36:5:797:U:H6	1.84	0.43
36:5:811:U:H2'	36:5:812:G:C8	2.54	0.43
36:5:1135:A:H5'	65:n9:7:HIS:O	2.18	0.43
36:5:1549:U:H2'	36:5:1550:C:H6	1.84	0.43
36:5:1846:C:C4	53:m7:136:ILE:HG12	2.53	0.43
36:5:2981:U:OP1	86:5:3713:OHX:N5	2.51	0.43
40:l3:292:ALA:HA	40:l3:303:LYS:O	2.18	0.43
40:l3:347:SER:C	40:l3:349:LYS:H	2.26	0.43
42:l5:89:THR:HB	42:l5:90:HIS:CD2	2.53	0.43
81:l8:41:GLN:CG	81:l8:44:ARG:HH12	2.31	0.43
47:m0:178:ARG:H	47:m0:178:ARG:HG2	1.51	0.43
83:n4:54:LEU:HD12	83:n4:54:LEU:HA	1.88	0.43
62:n6:59:VAL:HG22	62:n6:103:LYS:O	2.18	0.43
63:n7:54:THR:HG23	63:n7:56:LYS:H	1.83	0.43
84:p0:25:LEU:HD13	84:p0:88:PHE:CE2	2.52	0.43
84:p0:37:GLN:O	84:p0:41:VAL:HG23	2.19	0.43
1:2:434:G:H5'	25:D3:78:LYS:HB3	2.00	0.43
1:2:487:G:H3'	1:2:488:G:H5"	2.00	0.43
1:2:1058:U:H4'	1:2:1059:U:OP1	2.18	0.43
2:S0:101:ARG:NH2	2:S0:104:PRO:HD3	2.33	0.43
7:S5:51:VAL:HG22	7:S5:64:VAL:HG11	2.00	0.43
10:S8:9:HIS:CD2	10:S8:10:LYS:HB2	2.52	0.43
10:S8:58:LEU:O	10:S8:59:ARG:HB2	2.18	0.43
11:S9:51:LYS:HB2	11:S9:51:LYS:HE3	1.73	0.43
11:S9:109:LEU:CB	11:S9:146:PHE:HB3	2.49	0.43
26:D4:116:LYS:HE2	26:D4:116:LYS:HB3	1.83	0.43
36:1:535:G:C6	36:1:555:U:N3	2.86	0.43
36:1:999:G:C6	36:1:1000:C:N4	2.86	0.43
36:1:1471:U:H2'	36:1:1472:U:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2394:G:O2'	40:L3:258:ALA:HA	2.18	0.43
36:1:2407:C:H1'	36:1:2818:U:O2	2.19	0.43
36:1:2522:G:O6	39:L2:70:ARG:NH2	2.51	0.43
36:1:2552:C:H2'	66:O0:50:VAL:HG11	2.00	0.43
36:1:3011:A:C5	40:L3:13:HIS:CD2	3.06	0.43
36:1:3271:G:OP1	53:M7:171:ARG:HG2	2.18	0.43
37:3:7:G:OP1	42:L5:33:ARG:HD2	2.17	0.43
37:3:18:C:H2'	37:3:19:C:H6	1.82	0.43
38:4:38:U:C4	71:O5:89:ARG:HD2	2.53	0.43
41:L4:107:ARG:HG2	41:L4:108:LYS:N	2.32	0.43
41:L4:192:GLY:HA2	41:L4:195:ARG:HB2	2.00	0.43
44:L7:176:TYR:CZ	44:L7:197:GLN:HG2	2.53	0.43
45:L8:114:ALA:O	45:L8:118:GLU:HB2	2.19	0.43
46:L9:41:ILE:HD11	46:L9:67:ALA:CB	2.48	0.43
57:N1:111:ALA:O	57:N1:115:LYS:HG3	2.19	0.43
59:N3:87:ARG:HH22	59:N3:137:VAL:CG2	2.31	0.43
66:O0:20:SER:OG	66:O0:96:GLY:HA3	2.18	0.43
71:O5:47:VAL:O	71:O5:51:ILE:HG13	2.19	0.43
1:6:145:A:O2'	1:6:146:U:OP1	2.32	0.43
1:6:737:A:H2'	1:6:738:G:C8	2.53	0.43
1:6:768:C:H1'	11:s9:143:ILE:HG21	2.00	0.43
1:6:888:U:H1'	16:c4:126:THR:HG21	2.00	0.43
1:6:1765:A:C8	1:6:1768:G:N2	2.86	0.43
1:6:1797:A:C6	28:d6:87:ARG:HD2	2.54	0.43
6:s4:136:VAL:HG11	6:s4:148:ARG:NH2	2.34	0.43
7:s5:43:PHE:H	7:s5:46:TRP:H	1.66	0.43
10:s8:5:ARG:HD3	10:s8:29:LEU:O	2.19	0.43
17:c5:35:LYS:HB3	17:c5:35:LYS:HE2	1.83	0.43
20:c8:60:GLU:O	20:c8:61:LEU:HB2	2.18	0.43
24:d2:34:ILE:O	24:d2:38:LEU:HG	2.19	0.43
29:d7:29:ARG:HA	29:d7:29:ARG:HD3	1.68	0.43
34:sR:195:HIS:NE2	34:sR:213:SER:OG	2.39	0.43
36:5:22:G:O4'	38:8:104:A:H1'	2.18	0.43
36:5:423:A:N6	36:5:424:G:C6	2.86	0.43
36:5:629:U:H2'	36:5:630:A:H8	1.82	0.43
36:5:1087:G:O6	86:5:3611:OHX:N6	2.51	0.43
36:5:2112:U:O2	86:5:3477:OHX:N1	2.51	0.43
36:5:2265:C:H2'	36:5:2266:U:O4'	2.18	0.43
36:5:2717:U:OP1	86:5:3569:OHX:N3	2.52	0.43
36:5:2787:G:OP2	86:5:3535:OHX:N4	2.52	0.43
36:5:3112:G:O6	36:5:3120:C:H5"	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3113:A:H1'	46:l9:70:THR:HG22	2.00	0.43
40:l3:292:ALA:HB1	40:l3:295:ALA:CB	2.47	0.43
41:l4:330:TYR:HB2	44:l7:45:LEU:HD23	2.01	0.43
43:l6:47:PHE:O	43:l6:50:LYS:HB2	2.17	0.43
46:l9:147:SER:HB2	46:l9:187:ILE:HD11	1.99	0.43
51:m5:31:ARG:HG3	51:m5:129:TYR:OH	2.19	0.43
54:m8:157:PRO:HD3	64:n8:47:LYS:HD3	1.99	0.43
61:n5:115:ARG:NH1	61:n5:119:THR:OG1	2.52	0.43
63:n7:9:LYS:HD2	63:n7:83:THR:O	2.17	0.43
1:2:240:U:OP1	1:2:240:U:H4'	2.18	0.43
1:2:652:G:H1	1:2:682:C:N4	2.16	0.43
1:2:1169:G:N1	1:2:1575:G:OP2	2.45	0.43
1:2:1381:U:H1'	1:2:1516:A:N6	2.33	0.43
1:2:1497:U:C2	1:2:1498:G:C8	3.06	0.43
5:S3:136:VAL:N	5:S3:152:PHE:O	2.46	0.43
8:S6:76:LEU:HD23	8:S6:76:LEU:HA	1.81	0.43
10:S8:92:ARG:HG3	36:1:3345:G:OP2	2.19	0.43
11:S9:127:VAL:HG12	11:S9:131:GLN:OE1	2.19	0.43
17:C5:57:MET:HE1	17:C5:89:MET:HE3	2.00	0.43
21:C9:105:LEU:HB3	21:C9:122:ARG:HE	1.83	0.43
36:1:772:U:H2'	36:1:773:G:C8	2.54	0.43
36:1:1047:A:N3	36:1:2633:U:O2'	2.50	0.43
36:1:1145:G:H5'	68:O2:46:PHE:CE1	2.53	0.43
36:1:1481:A:O2'	36:1:1858:A:C2	2.66	0.43
36:1:3174:A:C5	36:1:3279:A:H1'	2.53	0.43
38:4:77:A:H2'	38:4:78:G:O4'	2.18	0.43
39:L2:10:LYS:HA	39:L2:16:PHE:CD2	2.53	0.43
40:L3:215:ILE:HG12	40:L3:280:HIS:O	2.19	0.43
44:L7:180:SER:H	44:L7:183:ASP:HB2	1.83	0.43
47:M0:48:LEU:HD11	47:M0:145:LYS:HG3	2.00	0.43
49:M3:50:PRO:HB3	49:M3:138:VAL:O	2.18	0.43
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.52	0.43
55:M9:12:ALA:HB1	55:M9:17:VAL:O	2.19	0.43
56:N0:1:MET:SD	56:N0:36:ILE:HG21	2.59	0.43
57:N1:57:TYR:CG	57:N1:89:LEU:HD21	2.53	0.43
71:O5:89:ARG:HG2	71:O5:89:ARG:HH11	1.83	0.43
1:6:74:U:C2	1:6:76:A:H5"	2.54	0.43
1:6:1228:G:OP1	14:c2:45:LEU:HB2	2.19	0.43
2:s0:70:PRO:HB2	2:s0:94:GLY:HA3	2.00	0.43
3:s1:88:VAL:HG21	3:s1:96:LEU:HD12	1.99	0.43
3:s1:126:THR:HG22	3:s1:136:ARG:HE	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:54:TYR:O	26:d4:15:ASN:ND2	2.50	0.43
6:s4:77:ARG:HD2	6:s4:82:TYR:CD1	2.54	0.43
7:s5:61:TYR:OH	30:d8:49:ARG:HD3	2.19	0.43
13:c1:78:THR:HG21	13:c1:118:GLN:HA	2.01	0.43
18:c6:120:ASP:OD1	18:c6:122:ARG:HG2	2.18	0.43
20:c8:28:ILE:H	20:c8:28:ILE:HG13	1.51	0.43
23:d1:36:VAL:O	23:d1:51:VAL:N	2.48	0.43
27:d5:79:ALA:O	27:d5:83:LEU:HG	2.17	0.43
27:d5:86:GLU:HG3	27:d5:87:GLY:N	2.29	0.43
28:d6:22:ARG:NH2	28:d6:27:SER:O	2.52	0.43
30:d8:44:VAL:HG11	30:d8:48:VAL:HG21	2.01	0.43
36:5:118:U:C5	36:5:119:U:C4	3.06	0.43
36:5:965:A:C5	36:5:966:U:C5	3.06	0.43
36:5:1009:A:OP2	86:5:3616:OHX:N2	2.51	0.43
36:5:1369:A:OP1	64:n8:21:ARG:NH1	2.52	0.43
36:5:2304:C:C5	36:5:2305:G:C6	3.07	0.43
36:5:2329:C:C2'	36:5:2330:C:H5'	2.49	0.43
36:5:3317:U:H4'	36:5:3318:G:O5'	2.18	0.43
37:7:55:A:H2'	37:7:56:A:O4'	2.18	0.43
40:l3:115:LYS:HE3	40:l3:129:ALA:HB3	2.00	0.43
81:l8:149:LYS:N	81:l8:149:LYS:HD2	2.33	0.43
47:m0:97:LEU:O	47:m0:123:HIS:N	2.50	0.43
54:m8:44:PHE:CD1	54:m8:139:ILE:HD11	2.53	0.43
66:o0:84:LEU:H	66:o0:84:LEU:HD12	1.83	0.43
68:o2:18:LYS:HD3	68:o2:30:GLU:CD	2.44	0.43
78:q2:70:LEU:N	78:q2:83:LEU:O	2.43	0.43
1:2:704:C:H4'	1:2:705:U:OP1	2.18	0.43
1:2:827:C:H2'	1:2:828:U:O4'	2.19	0.43
1:2:885:G:H21	16:C4:123:SER:HB2	1.84	0.43
1:2:990:C:H2'	1:2:991:G:O4'	2.18	0.43
1:2:1552:U:H2'	1:2:1553:G:O4'	2.18	0.43
4:S2:141:ARG:H	4:S2:141:ARG:HG2	1.62	0.43
4:S2:161:LYS:HB2	4:S2:166:THR:HG22	1.99	0.43
5:S3:44:THR:HB	5:S3:45:LYS:NZ	2.34	0.43
6:S4:122:LYS:HB3	6:S4:164:LEU:HD21	2.01	0.43
12:C0:50:THR:HA	12:C0:55:VAL:HG13	1.99	0.43
21:C9:69:LYS:HB3	21:C9:70:GLN:NE2	2.34	0.43
26:D4:123:LYS:NZ	26:D4:124:ARG:HB2	2.34	0.43
36:1:31:C:H4'	51:M5:96:ARG:HD3	2.00	0.43
36:1:908:G:H4'	36:1:909:G:O5'	2.19	0.43
36:1:1380:G:OP1	41:L4:191:LYS:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1740:U:H4'	36:1:1741:A:H5'	2.00	0.43
36:1:2538:U:H4'	36:1:2539:C:OP2	2.18	0.43
36:1:2736:A:O2'	57:N1:68:THR:HG21	2.18	0.43
37:3:112:G:H2'	37:3:113:C:C6	2.54	0.43
38:4:31:G:OP2	86:4:205:OHX:N5	2.51	0.43
39:L2:2:GLY:HA2	39:L2:207:VAL:HG23	2.01	0.43
39:L2:120:PRO:HD3	39:L2:159:SER:HB3	2.00	0.43
41:L4:22:LEU:HD23	41:L4:22:LEU:HA	1.81	0.43
41:L4:352:ALA:HB2	44:L7:71:ALA:O	2.18	0.43
52:M6:62:THR:HG22	52:M6:65:ASN:H	1.84	0.43
62:N6:37:LYS:HE2	62:N6:37:LYS:H	1.83	0.43
62:N6:74:TYR:CD1	62:N6:77:LYS:HG3	2.52	0.43
66:O0:17:VAL:HG21	66:O0:100:ILE:HG12	1.99	0.43
69:O3:45:LEU:HA	69:O3:71:VAL:HG12	2.00	0.43
78:Q2:83:LEU:HD23	78:Q2:83:LEU:HA	1.87	0.43
79:Q3:8:VAL:HB	79:Q3:11:THR:HG22	1.99	0.43
79:Q3:32:GLN:HG2	79:Q3:70:THR:HB	2.01	0.43
79:Q3:73:THR:HG22	79:Q3:76:ALA:HB2	2.00	0.43
1:6:246:G:C2	1:6:247:A:C4	3.07	0.43
1:6:780:A:H3'	1:6:781:U:H5'	2.00	0.43
1:6:876:G:H1'	1:6:944:A:O4'	2.19	0.43
1:6:884:A:H2'	1:6:885:G:H8	1.84	0.43
1:6:919:A:H2'	1:6:920:U:H6	1.83	0.43
1:6:1066:C:OP1	3:s1:151:LYS:NZ	2.51	0.43
7:s5:58:LEU:HD23	7:s5:58:LEU:HA	1.82	0.43
7:s5:190:ILE:H	7:s5:190:ILE:HG12	1.64	0.43
8:s6:147:LEU:HD21	8:s6:156:PHE:CE1	2.54	0.43
13:c1:99:ARG:HD3	25:d3:8:GLY:O	2.19	0.43
19:c7:75:GLU:O	19:c7:79:GLU:HG3	2.19	0.43
25:d3:37:ALA:O	25:d3:41:SER:HB3	2.18	0.43
27:d5:61:SER:OG	27:d5:64:VAL:HG23	2.19	0.43
32:e0:51:ASN:CB	32:e0:53:LYS:HG2	2.47	0.43
36:5:948:C:H2'	36:5:949:C:H6	1.84	0.43
36:5:1145:G:OP1	68:o2:44:ARG:NH1	2.50	0.43
36:5:2392:C:HO2'	40:l3:266:ARG:HH22	1.61	0.43
36:5:3267:A:H2'	43:l6:69:PHE:CZ	2.53	0.43
39:l2:15:ILE:HA	39:l2:15:ILE:HD12	1.83	0.43
40:l3:283:TYR:CD1	40:l3:354:VAL:HG21	2.54	0.43
41:l4:26:PHE:HA	41:l4:127:ALA:HA	2.01	0.43
42:l5:187:THR:H	42:l5:187:THR:HG1	1.52	0.43
52:m6:85:ARG:HD3	52:m6:90:HIS:CG	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:m8:67:ILE:HG23	54:m8:81:VAL:HG11	2.00	0.43
59:n3:48:ARG:HH11	59:n3:48:ARG:CG	2.23	0.43
59:n3:136:VAL:HG12	59:n3:137:VAL:HG23	2.00	0.43
62:n6:48:LEU:HD23	62:n6:48:LEU:HA	1.85	0.43
64:n8:2:PRO:HG2	64:n8:5:PHE:CE2	2.54	0.43
66:o0:34:LEU:HA	66:o0:34:LEU:HD12	1.78	0.43
70:o4:8:ARG:HB2	70:o4:34:HIS:CD2	2.53	0.43
1:2:77:U:O5'	1:2:77:U:H6	2.01	0.43
1:2:552:G:C6	1:2:553:G:C6	3.06	0.43
1:2:616:G:C2	1:2:622:A:N7	2.87	0.43
1:2:735:C:O2'	1:2:736:C:H5"	2.17	0.43
1:2:1380:U:OP1	18:C6:12:LYS:NZ	2.52	0.43
1:2:1562:G:OP1	21:C9:89:ARG:NH2	2.51	0.43
3:S1:28:GLU:HG3	3:S1:29:TRP:N	2.34	0.43
10:S8:38:ILE:HA	10:S8:60:ILE:O	2.18	0.43
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.52	0.43
14:C2:52:LEU:HD21	14:C2:60:VAL:HG21	2.01	0.43
17:C5:52:LYS:CG	17:C5:53:PRO:HD3	2.48	0.43
25:D3:41:SER:HA	25:D3:42:PRO:HD3	1.85	0.43
26:D4:29:HIS:CE1	26:D4:34:ASN:H	2.36	0.43
27:D5:46:LYS:CD	27:D5:70:LYS:HD2	2.48	0.43
29:D7:47:PHE:HD1	29:D7:49:HIS:O	2.01	0.43
36:1:352:A:N6	36:1:365:A:H5"	2.34	0.43
36:1:542:G:H1	36:1:549:U:H3	1.67	0.43
36:1:795:G:O2'	36:1:796:U:H5'	2.19	0.43
36:1:1355:A:H4'	36:1:1356:U:O5'	2.19	0.43
36:1:1362:G:H2'	36:1:1363:A:C8	2.52	0.43
36:1:1584:U:H2'	36:1:1585:C:C6	2.54	0.43
36:1:1892:G:N7	86:1:3612:OHX:N1	2.66	0.43
36:1:2197:C:H4'	36:1:2198:A:C8	2.53	0.43
36:1:2615:G:H2'	36:1:2616:C:C6	2.53	0.43
38:4:124:G:OP2	86:4:212:OHX:N4	2.52	0.43
39:L2:145:LYS:HB3	39:L2:157:VAL:HG23	2.01	0.43
40:L3:19:ARG:O	40:L3:273:HIS:HE1	2.01	0.43
42:L5:294:ALA:HB1	47:M0:217:PHE:HB3	2.01	0.43
43:L6:6:ALA:HB2	68:O2:74:PHE:CZ	2.53	0.43
45:L8:73:PRO:HD3	45:L8:233:TRP:CE2	2.53	0.43
46:L9:52:LEU:HD23	46:L9:52:LEU:HA	1.87	0.43
46:L9:117:PHE:HE1	46:L9:178:GLY:HA2	1.84	0.43
48:M1:109:HIS:HE1	48:M1:122:ILE:HA	1.83	0.43
56:N0:1:MET:HE2	56:N0:1:MET:HB3	1.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:42:TRP:NE1	56:N0:58:ILE:HD12	2.34	0.43
57:N1:54:HIS:CE1	57:N1:55:LYS:HD3	2.54	0.43
57:N1:79:MET:HA	57:N1:84:TYR:HA	2.01	0.43
79:Q3:45:LYS:HE3	79:Q3:45:LYS:HB2	1.81	0.43
1:6:190:C:H1'	1:6:191:C:H5'	2.00	0.43
1:6:568:G:O5'	25:d3:90:ASP:HA	2.17	0.43
1:6:1019:A:OP2	15:c3:107:LYS:NZ	2.50	0.43
1:6:1158:C:H42	1:6:1163:A:N6	2.17	0.43
1:6:1230:A:C8	1:6:1258:U:C4	3.06	0.43
4:s2:229:LEU:HD23	23:d1:23:ILE:HD11	2.01	0.43
7:s5:72:HIS:ND1	18:c6:79:TYR:OH	2.42	0.43
8:s6:23:ARG:NH2	8:s6:42:GLY:HA2	2.33	0.43
9:s7:63:PRO:O	9:s7:65:PRO:HD2	2.18	0.43
9:s7:68:ALA:O	9:s7:72:LYS:HG3	2.19	0.43
10:s8:152:ILE:H	10:s8:152:ILE:HD13	1.82	0.43
16:c4:31:THR:OG1	16:c4:35:GLY:HA2	2.19	0.43
24:d2:30:SER:OG	24:d2:31:SER:N	2.51	0.43
25:d3:92:CYS:HA	25:d3:95:PHE:CD2	2.54	0.43
34:sR:23:LEU:HD11	34:sR:304:GLY:N	2.34	0.43
34:sR:73:LEU:HD23	34:sR:73:LEU:HA	1.90	0.43
36:5:581:U:O4	86:5:3525:OHX:N6	2.52	0.43
36:5:2202:C:H5"	39:l2:226:SER:N	2.33	0.43
36:5:2587:U:H4'	81:l8:49:TYR:HD2	1.83	0.43
36:5:3219:G:H4'	36:5:3220:G:H5'	2.00	0.43
44:l7:160:ARG:HB2	44:l7:203:TRP:CD2	2.53	0.43
46:l9:109:ALA:O	46:l9:110:LYS:HB2	2.18	0.43
46:l9:171:ASP:OD1	46:l9:173:ARG:HD3	2.19	0.43
48:m1:22:SER:HA	48:m1:66:ALA:CB	2.49	0.43
50:m4:20:VAL:HG22	50:m4:66:THR:OG1	2.19	0.43
51:m5:6:TYR:CE2	72:o6:40:VAL:HG22	2.54	0.43
70:o4:51:LEU:HD21	70:o4:79:SER:O	2.17	0.43
1:2:192:U:O2'	1:2:193:U:O4'	2.37	0.43
1:2:445:A:H1'	1:2:525:A:OP1	2.19	0.43
1:2:477:A:H61	1:2:511:A:N6	2.16	0.43
1:2:703:G:H2'	1:2:704:C:H5'	2.00	0.43
1:2:1140:G:H2'	1:2:1141:G:H8	1.83	0.43
1:2:1238:A:OP2	86:2:1925:OHX:N2	2.52	0.43
1:2:1363:U:O2	1:2:1363:U:H2'	2.19	0.43
1:2:1481:C:O2'	1:2:1482:C:O5'	2.33	0.43
1:2:1488:G:H5'	1:2:1489:U:OP1	2.19	0.43
1:2:1594:G:OP2	1:2:1596:C:N4	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:109:ASN:O	2:S0:112:THR:HG22	2.18	0.43
4:S2:230:TRP:CD2	24:D2:68:ARG:HD3	2.54	0.43
7:S5:113:ILE:HG23	7:S5:191:ALA:HB2	2.01	0.43
7:S5:183:ALA:HA	7:S5:186:ASN:HD21	1.82	0.43
9:S7:141:ARG:NE	24:D2:49:GLU:OE1	2.46	0.43
16:C4:125:SER:OG	16:C4:126:THR:N	2.47	0.43
20:C8:97:ASP:OD2	20:C8:97:ASP:N	2.51	0.43
23:D1:16:LYS:HE3	23:D1:16:LYS:HB2	1.77	0.43
28:D6:25:ASN:ND2	28:D6:77:CYS:SG	2.91	0.43
28:D6:60:PRO:O	28:D6:62:TYR:N	2.52	0.43
29:D7:72:LYS:HE2	29:D7:72:LYS:HB2	1.82	0.43
34:SR:89:LEU:HD21	34:SR:110:VAL:HG11	2.01	0.43
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.37	0.43
36:1:65:A:H3'	36:1:111:C:H41	1.84	0.43
36:1:874:U:OP1	40:L3:241:LYS:HG2	2.19	0.43
36:1:1151:U:O4	36:1:1200:A:N6	2.51	0.43
36:1:1191:U:C2	52:M6:48:PHE:CE1	3.07	0.43
36:1:1651:U:H2'	36:1:1652:G:C8	2.53	0.43
36:1:1816:A:O2'	36:1:1817:G:OP1	2.35	0.43
36:1:1913:A:N3	36:1:2120:A:H2'	2.33	0.43
36:1:2681:U:H2'	36:1:2682:C:H6	1.84	0.43
37:3:39:C:O2'	48:M1:44:THR:O	2.30	0.43
38:4:62:C:H4'	38:4:63:G:O5'	2.19	0.43
40:L3:120:LYS:HD3	40:L3:120:LYS:HA	1.61	0.43
42:L5:197:SER:O	42:L5:202:GLY:N	2.52	0.43
44:L7:130:ILE:HD12	44:L7:134:VAL:HG11	2.00	0.43
48:M1:164:LYS:HE3	48:M1:171:VAL:HB	2.00	0.43
53:M7:22:LEU:HB3	53:M7:90:PHE:HE2	1.83	0.43
53:M7:112:LEU:HD12	53:M7:112:LEU:HA	1.87	0.43
58:N2:12:ALA:HA	58:N2:67:SER:O	2.19	0.43
65:N9:39:PHE:C	65:N9:39:PHE:CD2	2.96	0.43
71:O5:83:LYS:HA	71:O5:83:LYS:HD3	1.93	0.43
75:O9:9:ILE:HD13	75:O9:9:ILE:HA	1.82	0.43
78:Q2:25:VAL:HG22	78:Q2:72:LEU:HD22	2.00	0.43
1:6:538:A:H8	1:6:543:C:H41	1.55	0.43
1:6:901:G:H22	16:c4:54:GLU:CD	2.20	0.43
1:6:1474:G:H2'	1:6:1475:A:C8	2.54	0.43
1:6:1594:G:H5'	31:d9:33:LYS:HD2	2.00	0.43
86:6:1922:OHX:N3	86:6:1930:OHX:N5	2.66	0.43
3:s1:119:THR:HB	3:s1:143:THR:CG2	2.49	0.43
5:s3:127:MET:HE1	5:s3:133:GLY:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:133:GLY:HA3	5:s3:156:PHE:O	2.19	0.43
6:s4:106:LYS:HA	6:s4:106:LYS:HD2	1.81	0.43
7:s5:150:GLY:C	7:s5:152:GLY:H	2.26	0.43
9:s7:97:ARG:HA	9:s7:97:ARG:HD3	1.86	0.43
9:s7:138:LYS:HD3	9:s7:150:GLN:OE1	2.18	0.43
14:c2:91:VAL:HG22	14:c2:92:ALA:H	1.84	0.43
17:c5:36:LEU:H	17:c5:36:LEU:HD13	1.83	0.43
17:c5:127:ARG:HA	17:c5:127:ARG:HD2	1.79	0.43
21:c9:33:TYR:C	21:c9:35:ASP:H	2.27	0.43
25:d3:53:VAL:HG13	25:d3:72:VAL:HB	2.00	0.43
34:sR:103:PHE:CE1	34:sR:138:GLY:HA2	2.54	0.43
36:5:63:A:P	51:m5:172:ARG:HH22	2.41	0.43
36:5:1221:A:O3'	84:p0:8:LYS:NZ	2.45	0.43
36:5:1655:G:H1'	36:5:1800:A:N6	2.33	0.43
36:5:1818:U:H2'	36:5:1819:U:H6	1.84	0.43
36:5:2606:G:OP1	39:l2:233:GLN:NE2	2.49	0.43
36:5:2971:A:H5"	36:5:2972:G:C5'	2.48	0.43
36:5:3017:A:H2'	36:5:3018:C:H6	1.83	0.43
38:8:157:U:O2'	38:8:158:U:H5'	2.18	0.43
39:l2:116:VAL:HG13	39:l2:126:LEU:HB2	2.00	0.43
40:l3:325:LYS:HG2	40:l3:326:GLY:N	2.33	0.43
40:l3:367:LYS:HZ1	83:n4:34:SER:H	1.64	0.43
41:l4:184:SER:HB2	41:l4:202:ARG:HG2	2.01	0.43
44:l7:147:LEU:HD23	44:l7:147:LEU:HA	1.71	0.43
81:l8:68:ARG:H	81:l8:68:ARG:HG2	1.57	0.43
83:n4:23:ARG:NH2	83:n4:25:ASP:OD1	2.41	0.43
65:n9:39:PHE:CD2	65:n9:39:PHE:C	2.96	0.43
72:o6:2:THR:OG1	72:o6:3:VAL:N	2.51	0.43
2:S0:41:ARG:HG2	2:S0:42:PRO:HD2	2.01	0.43
2:S0:52:LYS:H	2:S0:52:LYS:HG2	1.56	0.43
3:S1:185:THR:O	3:S1:189:ILE:HG13	2.18	0.43
6:S4:114:ILE:HB	6:S4:118:GLU:OE2	2.19	0.43
7:S5:186:ASN:OD1	7:S5:188:LYS:HB2	2.18	0.43
8:S6:102:VAL:HG13	8:S6:106:LEU:HD12	2.01	0.43
9:S7:62:VAL:HG22	9:S7:70:PHE:HE2	1.82	0.43
11:S9:169:PRO:HD2	11:S9:174:ARG:HD2	2.00	0.43
15:C3:128:TYR:O	15:C3:132:VAL:HG22	2.18	0.43
18:C6:18:ALA:CB	18:C6:69:VAL:HG13	2.49	0.43
19:C7:20:TYR:CE2	19:C7:38:ILE:HG13	2.54	0.43
22:D0:80:GLU:HG3	31:D9:54:LYS:HZ2	1.83	0.43
25:D3:70:LYS:HB3	25:D3:93:LEU:HD22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:4:LYS:O	28:D6:4:LYS:HG3	2.18	0.43
35:SM:88:ARG:HG2	35:SM:91:THR:CG2	2.49	0.43
36:1:1146:C:H4'	36:1:1331:U:C5	2.54	0.43
36:1:1374:G:H2'	36:1:1375:G:O4'	2.19	0.43
36:1:1488:G:O2'	70:O4:10:ARG:O	2.37	0.43
36:1:2633:U:H2'	36:1:2634:U:O4'	2.19	0.43
40:L3:106:TRP:HB2	40:L3:133:TYR:CE2	2.54	0.43
40:L3:221:THR:HB	40:L3:273:HIS:H	1.84	0.43
44:L7:92:ILE:HA	44:L7:92:ILE:HD12	1.57	0.43
44:L7:93:ASN:OD1	44:L7:93:ASN:N	2.48	0.43
51:M5:172:ARG:O	51:M5:183:THR:OG1	2.31	0.43
55:M9:92:GLN:O	55:M9:96:ILE:HG13	2.19	0.43
56:N0:45:LEU:HA	56:N0:45:LEU:HD22	1.75	0.43
1:6:339:C:H2'	1:6:340:U:H6	1.83	0.43
1:6:920:U:H2'	1:6:921:U:O4'	2.19	0.43
1:6:1054:U:H2'	1:6:1055:U:H6	1.83	0.43
3:s1:32:ILE:HB	3:s1:43:VAL:HB	2.00	0.43
6:s4:51:ARG:HA	6:s4:51:ARG:HE	1.84	0.43
7:s5:192:GLU:O	7:s5:196:GLU:N	2.42	0.43
8:s6:67:VAL:CG2	8:s6:99:GLY:HA2	2.49	0.43
9:s7:26:GLU:OE2	9:s7:84:LYS:HD2	2.18	0.43
15:c3:21:ASN:O	15:c3:22:ALA:HB3	2.18	0.43
17:c5:69:GLU:HG2	17:c5:70:ASN:ND2	2.33	0.43
17:c5:111:MET:HG2	20:c8:119:ILE:CG1	2.49	0.43
18:c6:26:LYS:HE3	18:c6:26:LYS:HB2	1.74	0.43
28:d6:22:ARG:HA	28:d6:28:LYS:O	2.19	0.43
30:d8:26:THR:HB	30:d8:44:VAL:CG2	2.49	0.43
33:e1:88:PRO:CB	33:e1:89:LYS:HA	2.47	0.43
36:5:210:U:C2	36:5:230:U:H4'	2.54	0.43
36:5:1686:U:O4	58:n2:82:LYS:NZ	2.50	0.43
36:5:2206:G:O2'	36:5:2207:A:H5'	2.19	0.43
36:5:2395:G:C4'	40:l3:258:ALA:HB1	2.49	0.43
36:5:2402:A:N6	41:l4:73:ARG:HH21	2.17	0.43
38:8:79:A:H3'	38:8:80:A:H8	1.79	0.43
40:l3:81:THR:O	40:l3:81:THR:CG2	2.66	0.43
42:l5:45:ASN:OD1	57:n1:33:VAL:HG21	2.19	0.43
42:l5:64:ILE:HD12	42:l5:144:VAL:HG21	2.00	0.43
42:l5:295:GLY:O	86:l5:302:OHX:N4	2.52	0.43
46:l9:113:GLU:HA	46:l9:124:ARG:O	2.19	0.43
49:m3:101:ARG:HH22	49:m3:112:ASN:HD22	1.66	0.43
53:m7:29:THR:HG22	53:m7:87:SER:OG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:n4:82:ILE:O	83:n4:82:ILE:HG22	2.18	0.43
68:o2:75:LEU:HD23	68:o2:75:LEU:HA	1.91	0.43
69:o3:45:LEU:HA	69:o3:71:VAL:HG12	2.01	0.43
70:o4:81:CYS:O	70:o4:82:ALA:HB3	2.18	0.43
72:o6:63:ASN:C	72:o6:65:GLY:H	2.26	0.43
72:o6:91:ASN:O	72:o6:94:ILE:HG22	2.18	0.43
73:o7:18:LEU:HG	75:o9:51:ILE:HG21	2.00	0.43
84:p0:93:LEU:H	84:p0:93:LEU:HG	1.57	0.43
85:p1:34:UNK:C	85:p1:36:UNK:N	2.82	0.43
1:2:472:U:H5"	11:S9:11:THR:HG23	2.00	0.43
1:2:1022:C:O2'	1:2:1125:A:N1	2.47	0.43
1:2:1180:C:O2	17:C5:128:HIS:HE1	2.02	0.43
1:2:1214:U:OP1	1:2:1246:C:H1'	2.19	0.43
1:2:1303:U:O2'	1:2:1322:A:OP2	2.36	0.43
1:2:1305:U:H6	86:2:1921:OHX:N3	2.17	0.43
1:2:1585:U:N3	1:2:1611:A:H2	2.06	0.43
1:2:1738:U:H2'	1:2:1739:C:C6	2.54	0.43
1:2:1781:A:OP1	86:2:1930:OHX:N3	2.52	0.43
5:S3:66:ILE:HD12	5:S3:86:LEU:HB3	2.00	0.43
5:S3:148:LYS:HB2	35:SM:110:TRP:CZ2	2.54	0.43
7:S5:136:ALA:HA	7:S5:201:ALA:O	2.19	0.43
11:S9:134:ILE:O	11:S9:134:ILE:HG12	2.19	0.43
15:C3:55:ARG:O	29:D7:47:PHE:HB2	2.19	0.43
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.48	0.43
34:SR:281:TYR:HB3	34:SR:282:SER:H	1.60	0.43
36:1:418:A:H4'	36:1:629:U:O3'	2.17	0.43
36:1:1152:G:N3	36:1:1152:G:H2'	2.34	0.43
36:1:1915:A:H5'	55:M9:82:LYS:O	2.19	0.43
36:1:1939:G:OP1	55:M9:77:GLY:HA3	2.19	0.43
36:1:2104:A:H2'	36:1:2105:G:C8	2.54	0.43
36:1:2730:G:H4'	54:M8:184:PHE:CD1	2.54	0.43
36:1:2812:C:H2'	36:1:2813:A:H8	1.84	0.43
41:L4:157:GLU:HA	41:L4:215:ILE:HB	2.00	0.43
42:L5:160:PHE:CE2	42:L5:179:ARG:HB3	2.54	0.43
45:L8:75:ILE:O	45:L8:77:GLN:N	2.51	0.43
45:L8:158:ASP:HB3	45:L8:159:PRO:HD3	2.00	0.43
57:N1:132:PRO:O	57:N1:134:GLN:NE2	2.51	0.43
63:N7:10:VAL:O	63:N7:83:THR:HG22	2.19	0.43
66:O0:15:ALA:O	66:O0:18:ILE:HG22	2.19	0.43
72:O6:76:ARG:HA	72:O6:76:ARG:HE	1.84	0.43
1:6:677:G:H5"	1:6:678:A:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:874:C:OP1	86:6:1911:OHX:N1	2.52	0.43
1:6:891:A:H2'	1:6:892:A:C8	2.54	0.43
1:6:1002:G:C6	1:6:1003:A:N7	2.87	0.43
1:6:1058:U:H1'	1:6:1059:U:H5"	2.01	0.43
1:6:1796:C:OP1	28:d6:87:ARG:HD3	2.18	0.43
10:s8:36:THR:HG23	10:s8:96:LEU:O	2.19	0.43
16:c4:32:ASP:OD1	16:c4:37:GLU:HB2	2.18	0.43
33:e1:79:LYS:H	33:e1:82:LYS:HE3	1.84	0.43
34:sR:5:GLU:OE1	34:sR:249:ARG:NE	2.52	0.43
34:sR:33:LEU:O	34:sR:45:TRP:HD1	2.01	0.43
34:sR:84:SER:OG	34:sR:85:TRP:N	2.52	0.43
36:5:248:U:C3'	36:5:249:U:H5'	2.49	0.43
36:5:405:U:H5"	36:5:406:G:OP2	2.19	0.43
36:5:407:A:C2	38:8:17:A:H1'	2.53	0.43
36:5:2123:G:N7	86:5:3600:OHX:N1	2.67	0.43
36:5:2181:C:H5"	39:l2:193:ARG:NH2	2.33	0.43
36:5:3057:U:H5'	36:5:3086:A:H61	1.84	0.43
36:5:3094:A:H2'	36:5:3095:U:C6	2.54	0.43
38:8:56:G:H2'	38:8:57:C:H6	1.84	0.43
38:8:139:U:H2'	38:8:140:G:H8	1.84	0.43
40:l3:311:PHE:HB2	40:l3:315:GLY:O	2.19	0.43
41:l4:33:ASP:O	41:l4:37:THR:HG23	2.19	0.43
55:m9:61:SER:OG	55:m9:62:ARG:N	2.52	0.43
63:n7:26:VAL:HG11	63:n7:96:VAL:HB	2.01	0.43
67:o1:29:ALA:HB3	67:o1:30:PRO:HD3	2.01	0.43
69:o3:44:TYR:HA	69:o3:47:LYS:HG3	2.00	0.43
70:o4:65:VAL:HG13	70:o4:66:SER:O	2.18	0.43
74:o8:41:THR:HG21	74:o8:62:ALA:CB	2.48	0.43
84:p0:91:GLU:HG2	84:p0:92:PRO:HD2	1.99	0.43
3:S1:59:ASP:HA	3:S1:62:LYS:HZ2	1.84	0.42
9:S7:67:LEU:HA	9:S7:67:LEU:HD23	1.51	0.42
10:S8:8:ARG:CZ	10:S8:21:PHE:HB3	2.50	0.42
10:S8:152:ILE:HB	10:S8:153:GLU:H	1.57	0.42
21:C9:111:ILE:HG23	21:C9:113:ILE:HG12	2.01	0.42
24:D2:11:LEU:HD12	24:D2:74:VAL:HB	2.00	0.42
30:D8:33:LEU:HD22	30:D8:33:LEU:HA	1.85	0.42
35:SM:166:UNK:C	35:SM:168:UNK:N	2.79	0.42
36:1:1051:U:H4'	57:N1:19:PHE:CD2	2.53	0.42
36:1:1285:G:O2'	36:1:1286:A:OP2	2.35	0.42
36:1:1578:C:H3'	36:1:1579:C:C6	2.54	0.42
36:1:1661:G:H2'	36:1:1662:G:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1863:G:O3'	55:M9:82:LYS:HB2	2.19	0.42
36:1:2186:U:OP2	39:L2:200:ARG:NH2	2.52	0.42
36:1:2333:C:H2'	36:1:2334:U:O4'	2.19	0.42
36:1:2413:A:H2'	36:1:2414:G:H8	1.82	0.42
36:1:2617:U:C5	36:1:2621:G:OP2	2.70	0.42
36:1:2713:U:H3'	78:Q2:9:LYS:O	2.19	0.42
36:1:3045:G:O3'	40:L3:275:ARG:NH1	2.52	0.42
36:1:3072:C:H2'	36:1:3073:A:O4'	2.19	0.42
36:1:3243:A:H4'	40:L3:95:THR:HG22	2.01	0.42
41:L4:71:VAL:HG13	41:L4:76:ARG:NH1	2.34	0.42
42:L5:38:THR:HG22	57:N1:30:TYR:HB3	2.01	0.42
42:L5:286:VAL:O	42:L5:290:ILE:HG12	2.19	0.42
44:L7:145:ARG:HA	44:L7:185:ILE:HD13	2.00	0.42
46:L9:48:VAL:HG13	46:L9:49:ASN:H	1.83	0.42
46:L9:172:ILE:HD13	46:L9:172:ILE:H	1.83	0.42
53:M7:109:ALA:HA	53:M7:112:LEU:HD22	2.01	0.42
57:N1:6:GLY:O	57:N1:9:SER:HB3	2.19	0.42
79:Q3:38:ASP:HA	79:Q3:45:LYS:HA	2.01	0.42
1:6:72:A:H2'	1:6:73:U:C1'	2.49	0.42
1:6:625:C:H2'	1:6:626:U:C6	2.54	0.42
1:6:1071:U:H2'	1:6:1072:C:C6	2.53	0.42
1:6:1263:G:H2'	1:6:1264:G:O4'	2.19	0.42
1:6:1309:C:O2'	1:6:1401:A:N1	2.48	0.42
1:6:1564:U:OP1	21:c9:38:LYS:NZ	2.44	0.42
2:s0:157:ASP:O	2:s0:158:VAL:C	2.62	0.42
6:s4:34:GLY:HA3	6:s4:83:PRO:CG	2.49	0.42
6:s4:133:LYS:HE3	6:s4:133:LYS:HB3	1.72	0.42
10:s8:194:ARG:HB3	10:s8:195:ARG:NH1	2.34	0.42
13:c1:108:PRO:HG2	13:c1:134:THR:O	2.19	0.42
20:c8:108:LYS:HA	20:c8:111:ASP:HB2	2.01	0.42
22:d0:99:ILE:H	22:d0:99:ILE:HG12	1.64	0.42
31:d9:21:CYS:HB3	31:d9:26:SER:H	1.84	0.42
36:5:178:U:H2'	36:5:179:C:O4'	2.18	0.42
36:5:313:A:H2'	36:5:314:U:C6	2.54	0.42
36:5:703:G:O2'	36:5:787:G:H4'	2.19	0.42
36:5:1100:U:H2'	36:5:1101:G:O4'	2.18	0.42
36:5:1112:A:P	49:m3:5:LYS:HE2	2.59	0.42
36:5:3317:U:H6	86:5:3639:OHX:N6	2.17	0.42
36:5:3362:A:H2'	36:5:3363:U:O4'	2.19	0.42
37:7:27:A:C2	37:7:28:C:C2	3.07	0.42
38:8:156:U:O2'	38:8:157:U:OP1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:14:LEU:HA	40:l3:17:LEU:HD22	2.01	0.42
43:l6:166:LYS:HD3	43:l6:166:LYS:HA	1.65	0.42
52:m6:47:PHE:HE2	52:m6:141:LEU:HA	1.83	0.42
68:o2:102:ALA:HB2	68:o2:125:ARG:HB2	2.01	0.42
71:o5:6:ALA:O	71:o5:10:ARG:HG3	2.19	0.42
77:q1:18:ARG:HE	77:q1:18:ARG:HB3	1.55	0.42
1:2:400:A:H5"	10:S8:25:ARG:HA	2.00	0.42
1:2:747:C:H4'	24:D2:80:ASN:ND2	2.34	0.42
1:2:782:U:O4	26:D4:48:TYR:HA	2.19	0.42
1:2:872:G:N2	1:2:956:C:O2	2.52	0.42
1:2:879:G:O2'	15:C3:105:ASN:HB3	2.19	0.42
1:2:884:A:H61	1:2:927:C:N4	2.17	0.42
1:2:1003:A:H4'	1:2:1004:U:O5'	2.19	0.42
1:2:1244:A:H3'	1:2:1244:A:N3	2.34	0.42
1:2:1389:C:O2'	19:C7:52:GLY:HA3	2.19	0.42
1:2:1656:U:H5"	1:2:1657:U:O5'	2.19	0.42
4:S2:152:HIS:H	4:S2:152:HIS:CD2	2.36	0.42
9:S7:23:ALA:O	9:S7:27:LEU:HG	2.18	0.42
23:D1:18:SER:N	23:D1:54:ALA:O	2.43	0.42
24:D2:105:THR:OG1	24:D2:126:LEU:HG	2.19	0.42
26:D4:29:HIS:HD2	26:D4:35:VAL:HG22	1.83	0.42
27:D5:46:LYS:HE2	27:D5:70:LYS:HZ2	1.84	0.42
28:D6:64:LEU:HD22	28:D6:64:LEU:HA	1.72	0.42
28:D6:85:ARG:HD3	28:D6:85:ARG:HA	1.55	0.42
33:E1:136:LYS:HG3	33:E1:137:ASP:OD1	2.19	0.42
34:SR:305:TYR:CE2	34:SR:311:ARG:HD2	2.54	0.42
36:1:197:G:H2'	36:1:198:A:C8	2.54	0.42
36:1:761:A:N1	36:1:771:A:H1'	2.34	0.42
36:1:781:G:O6	86:1:3478:OHX:N3	2.51	0.42
36:1:1004:U:C4	36:1:1005:G:N7	2.87	0.42
36:1:1481:A:OP1	36:1:1481:A:O4'	2.37	0.42
36:1:1556:C:H2'	36:1:2169:G:H1	1.83	0.42
36:1:1579:C:N4	36:1:1580:A:H62	2.17	0.42
36:1:1804:A:H2'	36:1:1805:C:C6	2.54	0.42
36:1:2383:C:H2'	36:1:2384:A:H5'	2.01	0.42
36:1:2554:A:C8	36:1:2554:A:H5'	2.55	0.42
36:1:2586:G:C5	45:L8:241:LYS:HB2	2.55	0.42
36:1:2808:A:H4'	36:1:2809:C:O5'	2.18	0.42
36:1:3024:A:H5"	36:1:3025:C:OP2	2.19	0.42
36:1:3140:G:OP1	40:L3:20:LYS:NZ	2.49	0.42
36:1:3268:A:O2'	43:L6:130:ILE:HD11	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:41:G:H1'	37:3:44:C:N4	2.34	0.42
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.54	0.42
44:L7:236:ILE:HA	44:L7:236:ILE:HD12	1.78	0.42
46:L9:3:TYR:CD2	46:L9:3:TYR:N	2.87	0.42
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.54	0.42
47:M0:91:VAL:HG13	47:M0:127:ALA:HB1	2.01	0.42
48:M1:36:VAL:HG21	48:M1:123:PHE:HD2	1.84	0.42
48:M1:80:LEU:HD23	48:M1:80:LEU:HA	1.90	0.42
51:M5:44:ARG:NH1	51:M5:120:TRP:O	2.52	0.42
54:M8:120:GLU:CD	54:M8:130:ARG:HH22	2.27	0.42
57:N1:43:LYS:HE3	57:N1:43:LYS:HB3	1.88	0.42
57:N1:160:ILE:HD12	57:N1:160:ILE:HA	1.89	0.42
62:N6:63:LYS:O	62:N6:66:GLN:HG3	2.19	0.42
1:6:57:G:OP2	26:d4:116:LYS:HE2	2.19	0.42
1:6:191:C:O2'	1:6:192:U:O5'	2.33	0.42
1:6:449:C:OP1	6:s4:29:PRO:O	2.38	0.42
1:6:478:A:C2	1:6:511:A:C2	3.08	0.42
1:6:591:A:H2'	1:6:592:A:H8	1.84	0.42
1:6:778:G:O6	26:d4:10:ARG:NH1	2.36	0.42
1:6:1274:C:O2	1:6:1274:C:H2'	2.19	0.42
1:6:1616:G:H4'	30:d8:18:ARG:HH11	1.84	0.42
6:s4:163:ASP:HB3	6:s4:167:GLY:O	2.19	0.42
7:s5:29:ILE:HA	7:s5:30:PRO:HD3	1.90	0.42
7:s5:58:LEU:HD11	7:s5:167:ARG:NH1	2.34	0.42
7:s5:63:GLN:HE22	7:s5:66:GLN:HB2	1.83	0.42
7:s5:147:THR:OG1	7:s5:148:ARG:N	2.51	0.42
10:s8:38:ILE:HA	10:s8:60:ILE:O	2.18	0.42
10:s8:76:THR:HG21	10:s8:105:ASP:O	2.19	0.42
18:c6:20:ALA:HA	18:c6:67:VAL:HG22	2.00	0.42
18:c6:40:GLU:C	18:c6:42:GLU:H	2.27	0.42
26:d4:55:VAL:HG12	26:d4:75:VAL:HG22	2.00	0.42
30:d8:19:THR:HG21	30:d8:27:GLN:HE21	1.84	0.42
36:5:27:C:H1'	36:5:328:U:H1'	2.01	0.42
36:5:47:C:OP2	36:5:48:A:O2'	2.23	0.42
36:5:378:A:H3'	36:5:379:C:H6	1.84	0.42
36:5:849:C:H2'	36:5:850:U:C6	2.54	0.42
36:5:1162:U:H4'	68:o2:57:TYR:CE1	2.54	0.42
36:5:2424:A:N1	39:l2:230:VAL:HG21	2.35	0.42
36:5:3155:U:HO2'	36:5:3156:U:H6	1.67	0.42
39:l2:5:ILE:HG12	39:l2:8:GLN:HG3	2.02	0.42
42:l5:40:HIS:HB3	42:l5:43:LYS:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:l6:175:LYS:HD2	43:l6:175:LYS:HA	1.60	0.42
83:n4:83:THR:OG1	83:n4:83:THR:O	2.34	0.42
62:n6:36:SER:OG	62:n6:39:LEU:HD23	2.20	0.42
63:n7:115:LYS:HG2	63:n7:119:GLU:OE2	2.19	0.42
67:o1:41:LYS:O	67:o1:45:GLY:HA2	2.19	0.42
68:o2:21:HIS:CE1	68:o2:24:ARG:HD2	2.54	0.42
1:2:405:C:O2'	8:S6:92:ARG:O	2.30	0.42
1:2:503:G:O2'	1:2:504:U:OP1	2.32	0.42
1:2:819:G:O2'	1:2:821:U:OP2	2.22	0.42
1:2:943:C:N4	28:D6:15:ARG:HG2	2.34	0.42
1:2:959:U:C4	29:D7:32:PHE:HE2	2.37	0.42
1:2:1003:A:C4	1:2:1005:A:C6	3.07	0.42
1:2:1509:C:H2'	1:2:1510:U:O4'	2.20	0.42
1:2:1526:A:N1	1:2:1608:U:O2'	2.41	0.42
1:2:1657:U:C2	86:2:1964:OHX:N2	2.87	0.42
1:2:1698:G:H1'	1:2:1699:G:OP1	2.19	0.42
2:S0:6:THR:C	2:S0:8:ASP:N	2.78	0.42
4:S2:107:SER:HB3	4:S2:192:GLY:HA2	2.02	0.42
11:S9:13:SER:O	11:S9:43:TYR:HB3	2.19	0.42
11:S9:149:ARG:H	11:S9:149:ARG:HG2	1.53	0.42
17:C5:52:LYS:H	17:C5:52:LYS:HG2	1.32	0.42
18:C6:129:PHE:CE1	22:D0:78:THR:HA	2.54	0.42
32:E0:49:LEU:HG	32:E0:49:LEU:O	2.18	0.42
34:SR:7:LEU:HG	34:SR:315:VAL:HG22	2.01	0.42
36:1:346:C:OP1	41:L4:52:VAL:HG23	2.20	0.42
36:1:844:G:N7	86:1:3460:OHX:N5	2.66	0.42
36:1:1748:G:C6	36:1:1749:A:C6	3.08	0.42
36:1:1791:C:H2'	36:1:1792:C:C6	2.55	0.42
36:1:1821:U:C4	70:O4:67:LYS:HD2	2.55	0.42
40:L3:308:MET:HE2	40:L3:308:MET:HB3	1.94	0.42
40:L3:316:GLU:O	40:L3:317:ILE:HB	2.20	0.42
40:L3:347:SER:O	40:L3:348:ARG:HB3	2.18	0.42
43:L6:22:ARG:C	43:L6:23:LYS:HG2	2.43	0.42
49:M3:182:ILE:O	49:M3:185:LYS:N	2.51	0.42
52:M6:15:LEU:HD23	52:M6:15:LEU:HA	1.84	0.42
1:6:514:G:HO2'	1:6:515:A:H8	1.66	0.42
1:6:530:C:O2	26:d4:61:ARG:NH2	2.50	0.42
1:6:1139:A:OP2	86:6:1927:OHX:N4	2.52	0.42
1:6:1402:G:P	19:c7:10:LYS:HZ1	2.42	0.42
11:s9:167:ALA:O	11:s9:168:ARG:HB2	2.18	0.42
15:c3:102:LEU:HD23	15:c3:102:LEU:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c8:4:VAL:HG21	27:d5:82:HIS:ND1	2.34	0.42
30:d8:10:ALA:HB1	30:d8:30:VAL:HB	2.00	0.42
34:sR:25:THR:OG1	34:sR:26:SER:N	2.52	0.42
80:sM:54:PRO:HB2	80:sM:59:GLY:HA2	2.00	0.42
36:5:375:A:O3'	62:n6:89:LYS:HD3	2.19	0.42
36:5:815:G:C6	36:5:906:A:C4	3.08	0.42
36:5:948:C:H2'	36:5:949:C:C6	2.54	0.42
36:5:997:A:H4'	37:7:80:G:H5'	2.01	0.42
36:5:1520:G:O2'	36:5:1603:A:N1	2.49	0.42
36:5:1594:A:H1'	36:5:1615:C:H1'	2.01	0.42
36:5:2908:G:H21	36:5:3106:A:H1'	1.84	0.42
81:l8:146:LYS:HD3	81:l8:173:MET:O	2.19	0.42
55:m9:90:PRO:HG2	55:m9:93:VAL:CG2	2.49	0.42
64:n8:36:GLY:HA3	64:n8:40:HIS:CE1	2.55	0.42
67:o1:75:ILE:HG23	67:o1:93:VAL:HG22	2.01	0.42
72:o6:33:ALA:HB1	72:o6:38:LYS:HD2	1.99	0.42
74:o8:21:LYS:HA	74:o8:21:LYS:HD3	1.81	0.42
84:p0:66:PHE:O	84:p0:69:ASP:O	2.37	0.42
1:2:188:A:H2'	1:2:189:C:O4'	2.20	0.42
6:S4:7:LYS:HD2	6:S4:7:LYS:N	2.34	0.42
6:S4:104:ASP:HB2	6:S4:108:ARG:H	1.83	0.42
17:C5:28:MET:O	17:C5:32:ASP:HB2	2.19	0.42
21:C9:34:VAL:HG23	21:C9:53:TRP:CZ2	2.55	0.42
25:D3:109:ARG:HB2	25:D3:112:LYS:O	2.19	0.42
28:D6:73:TYR:CZ	28:D6:82:ARG:HD3	2.55	0.42
34:SR:225:LEU:O	34:SR:228:LYS:HG3	2.19	0.42
35:SM:88:ARG:HG2	35:SM:91:THR:HG23	2.02	0.42
36:1:412:G:C6	36:1:413:U:C4	3.07	0.42
36:1:650:C:H2'	36:1:651:G:C8	2.55	0.42
36:1:955:U:H2'	36:1:956:U:H6	1.84	0.42
36:1:2636:A:H5"	36:1:2637:A:H5'	2.01	0.42
39:L2:30:ARG:HH22	39:L2:33:ASP:CG	2.27	0.42
40:L3:223:GLY:HA2	40:L3:271:GLY:HA3	2.01	0.42
41:L4:92:ASN:HA	41:L4:98:ARG:O	2.19	0.42
44:L7:89:ILE:HD13	44:L7:89:ILE:HA	1.79	0.42
45:L8:81:THR:HG21	45:L8:181:LYS:HD2	2.00	0.42
46:L9:48:VAL:CG1	46:L9:52:LEU:HB3	2.48	0.42
51:M5:190:THR:O	51:M5:194:GLN:HG3	2.19	0.42
63:N7:70:PRO:HG3	63:N7:115:LYS:HB2	2.01	0.42
64:N8:14:HIS:ND1	64:N8:14:HIS:N	2.68	0.42
64:N8:60:TYR:CD1	64:N8:63:LYS:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:74:ARG:NH1	67:O1:109:VAL:HG21	2.33	0.42
73:O7:22:CYS:SG	73:O7:24:ARG:HB2	2.59	0.42
76:Q0:114:LYS:HG2	76:Q0:115:CYS:N	2.35	0.42
1:6:246:G:C6	1:6:247:A:C6	3.07	0.42
1:6:577:G:H3'	1:6:577:G:H8	1.84	0.42
1:6:957:G:C6	1:6:958:U:C4	3.07	0.42
1:6:1255:G:O2'	1:6:1256:A:O5'	2.32	0.42
1:6:1275:A:H8	1:6:1275:A:OP2	2.02	0.42
1:6:1279:C:H2'	1:6:1280:C:O4'	2.19	0.42
1:6:1477:G:H2'	1:6:1478:G:H8	1.85	0.42
1:6:1559:A:H5"	20:c8:135:GLY:CA	2.49	0.42
3:s1:47:LEU:O	16:c4:37:GLU:HG3	2.19	0.42
4:s2:170:ILE:HG12	4:s2:197:TYR:O	2.20	0.42
5:s3:12:VAL:O	5:s3:16:VAL:HG23	2.19	0.42
5:s3:220:PRO:HB3	34:sR:194:GLY:HA3	2.00	0.42
11:s9:134:ILE:HD12	11:s9:134:ILE:N	2.34	0.42
12:c0:8:ARG:HG2	12:c0:12:HIS:CE1	2.54	0.42
14:c2:88:LEU:HD12	14:c2:88:LEU:HA	1.87	0.42
15:c3:20:ARG:HG3	15:c3:20:ARG:HH11	1.83	0.42
28:d6:15:ARG:HB3	28:d6:16:GLY:H	1.67	0.42
36:5:378:A:N7	36:5:391:A:H2	2.17	0.42
36:5:796:U:H2'	36:5:797:U:C6	2.54	0.42
36:5:1386:A:N7	41:l4:183:LYS:HE3	2.34	0.42
36:5:1641:U:O2'	36:5:1642:A:H3'	2.19	0.42
36:5:1807:G:C6	36:5:1808:G:N1	2.87	0.42
36:5:1953:G:O6	36:5:2094:C:N4	2.53	0.42
36:5:2694:A:C6	36:5:2695:A:C6	3.07	0.42
36:5:3177:G:O2'	36:5:3179:U:OP1	2.28	0.42
39:l2:79:ASN:ND2	39:l2:166:ILE:O	2.49	0.42
40:l3:148:LEU:HD12	40:l3:148:LEU:HA	1.88	0.42
41:l4:47:ARG:NH1	41:l4:109:TRP:O	2.52	0.42
44:l7:137:GLY:HA3	44:l7:236:ILE:HB	2.00	0.42
81:l8:78:PHE:C	81:l8:80:TYR:H	2.27	0.42
81:l8:150:LEU:HD22	81:l8:151:VAL:H	1.85	0.42
81:l8:186:LEU:HD12	81:l8:196:ALA:O	2.20	0.42
52:m6:14:HIS:O	52:m6:41:LEU:HD12	2.19	0.42
53:m7:94:LEU:HB3	53:m7:148:LEU:HD21	2.01	0.42
59:n3:109:MET:HE2	59:n3:111:GLY:O	2.20	0.42
83:n4:79:GLN:HG3	83:n4:80:ARG:N	2.34	0.42
64:n8:24:LYS:HB2	64:n8:26:ARG:HG2	2.00	0.42
64:n8:75:LEU:HA	64:n8:78:LEU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:n8:126:LYS:HB3	64:n8:148:ILE:CG2	2.49	0.42
71:o5:6:ALA:HB1	71:o5:10:ARG:NH2	2.33	0.42
1:2:159:U:H5'	26:D4:117:LYS:HB3	2.02	0.42
1:2:187:G:H4'	1:2:188:A:OP1	2.20	0.42
1:2:225:A:H2'	1:2:226:A:O4'	2.20	0.42
1:2:610:G:H2'	1:2:614:C:C5	2.55	0.42
1:2:926:A:H2'	1:2:927:C:O4'	2.20	0.42
1:2:1129:U:OP1	86:2:1952:OHX:N2	2.53	0.42
1:2:1298:U:O2'	4:S2:162:CYS:SG	2.77	0.42
1:2:1480:G:H3'	1:2:1481:C:C6	2.55	0.42
1:2:1535:U:OP1	1:2:1535:U:H4'	2.20	0.42
2:S0:64:ILE:O	2:S0:67:ILE:HG12	2.18	0.42
3:S1:120:LEU:HD23	3:S1:121:ILE:N	2.35	0.42
7:S5:121:ILE:H	7:S5:121:ILE:HG13	1.73	0.42
12:C0:44:LYS:HA	12:C0:44:LYS:HD3	1.75	0.42
17:C5:80:MET:HE2	17:C5:83:MET:HE2	2.02	0.42
17:C5:87:PRO:HA	17:C5:90:ILE:HG13	2.01	0.42
22:D0:99:ILE:O	22:D0:103:ILE:HB	2.20	0.42
27:D5:54:VAL:HG13	27:D5:57:TYR:CD1	2.54	0.42
33:E1:149:LYS:HB2	33:E1:149:LYS:HE2	1.80	0.42
34:SR:52:GLN:OE1	34:SR:53:LYS:HG2	2.19	0.42
36:1:185:C:H2'	36:1:186:U:H6	1.84	0.42
36:1:830:A:O2'	36:1:1866:C:H2'	2.20	0.42
36:1:909:G:OP2	51:M5:77:LYS:NZ	2.47	0.42
36:1:1128:U:H2'	36:1:1129:A:O4'	2.19	0.42
36:1:2567:C:C2'	36:1:2568:C:H5'	2.49	0.42
36:1:2616:C:H2'	36:1:2617:U:H5'	2.02	0.42
36:1:2707:C:H2'	36:1:2708:C:C6	2.53	0.42
36:1:3275:U:H5'	69:O3:68:TRP:CZ2	2.53	0.42
86:1:3486:OHX:N6	52:M6:67:THR:HG22	2.34	0.42
38:4:46:G:N2	38:4:58:G:C4	2.87	0.42
39:L2:54:ARG:HG2	39:L2:56:ALA:H	1.84	0.42
40:L3:44:THR:OG1	40:L3:182:GLN:O	2.36	0.42
40:L3:293:ASN:ND2	40:L3:321:PHE:HE2	2.17	0.42
42:L5:68:THR:HB	42:L5:71:GLY:O	2.18	0.42
45:L8:82:LEU:HD12	45:L8:82:LEU:HA	1.79	0.42
45:L8:248:LYS:N	45:L8:248:LYS:HD2	2.35	0.42
50:M4:22:LEU:HD13	50:M4:32:LEU:HD23	2.01	0.42
63:N7:89:VAL:HG13	63:N7:93:LYS:HG2	2.01	0.42
64:N8:77:LYS:O	64:N8:79:TRP:N	2.53	0.42
67:O1:14:ILE:HG13	67:O1:19:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:67:ARG:HD3	71:O5:80:LEU:HD22	2.02	0.42
72:O6:43:LEU:O	72:O6:47:ILE:HG13	2.19	0.42
77:Q1:22:ALA:HA	77:Q1:25:LYS:HG3	2.01	0.42
79:Q3:75:ALA:O	79:Q3:79:VAL:HG23	2.19	0.42
1:6:658:C:H5'	1:6:659:C:OP2	2.19	0.42
1:6:725:U:H2'	1:6:726:C:C6	2.54	0.42
1:6:1647:U:H1'	32:e0:2:ALA:O	2.20	0.42
2:s0:122:ILE:HG23	2:s0:144:ILE:HB	2.00	0.42
3:s1:26:ARG:HD2	3:s1:49:ASN:OD1	2.19	0.42
4:s2:81:MET:HB3	4:s2:81:MET:HE2	1.80	0.42
6:s4:163:ASP:O	6:s4:164:LEU:HB2	2.19	0.42
15:c3:120:SER:O	15:c3:124:ARG:HG3	2.20	0.42
21:c9:6:VAL:HG13	21:c9:66:TYR:CZ	2.54	0.42
21:c9:66:TYR:OH	21:c9:133:ASP:OD2	2.33	0.42
27:d5:102:THR:HG22	27:d5:103:ARG:N	2.31	0.42
33:e1:138:ARG:O	33:e1:139:LEU:HD12	2.20	0.42
34:sR:237:GLN:HB2	34:sR:238:ASP:H	1.62	0.42
36:5:148:G:O2'	36:5:149:U:OP2	2.38	0.42
36:5:498:A:H5'	69:o3:86:ARG:HH12	1.84	0.42
36:5:1072:G:H2'	36:5:1073:U:H6	1.84	0.42
36:5:1633:C:H2'	36:5:1634:G:H8	1.85	0.42
36:5:2103:U:H2'	36:5:2104:A:C8	2.54	0.42
36:5:2103:U:H2'	36:5:2104:A:H8	1.83	0.42
36:5:2827:U:H1'	36:5:2828:G:N7	2.34	0.42
36:5:3127:A:H2'	36:5:3128:G:O4'	2.20	0.42
37:7:67:G:H5'	42:l5:10:SER:HB2	2.02	0.42
38:8:35:C:H4'	73:o7:67:LEU:HD23	2.02	0.42
38:8:83:C:H4'	38:8:85:G:C2	2.54	0.42
39:l2:79:ASN:ND2	39:l2:165:VAL:HG22	2.34	0.42
40:l3:25:ILE:HD11	40:l3:334:ARG:NE	2.33	0.42
40:l3:166:ILE:O	40:l3:169:THR:HG22	2.19	0.42
40:l3:218:ILE:CG1	40:l3:276:THR:HG23	2.47	0.42
41:l4:327:LEU:HA	44:l7:166:ASN:ND2	2.34	0.42
42:l5:65:ILE:HD13	42:l5:74:VAL:HB	2.02	0.42
46:l9:70:THR:O	46:l9:74:LEU:HG	2.20	0.42
47:m0:56:GLU:OE2	47:m0:161:GLY:HA2	2.19	0.42
47:m0:193:ASP:HB2	47:m0:198:LYS:HG3	2.00	0.42
54:m8:173:GLU:HA	64:n8:51:GLY:C	2.44	0.42
62:n6:11:ASP:HB3	62:n6:14:LYS:HG3	2.01	0.42
70:o4:3:GLN:HE22	70:o4:30:LEU:N	2.13	0.42
70:o4:30:LEU:HD23	70:o4:30:LEU:HA	1.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1492:A:HO2'	1:2:1493:A:H8	1.65	0.42
1:2:1610:G:O3'	7:S5:98:MET:HE1	2.20	0.42
1:2:1619:C:H2'	1:2:1620:C:C6	2.55	0.42
1:2:1655:A:N1	36:1:2291:A:O2'	2.47	0.42
1:2:1682:U:O2'	1:2:1683:C:H5'	2.19	0.42
1:2:1769:U:O2	16:C4:136:ARG:HD2	2.19	0.42
1:2:1792:G:O5'	28:D6:3:LYS:HA	2.20	0.42
5:S3:101:GLN:HG3	5:S3:126:VAL:CG2	2.50	0.42
7:S5:48:PHE:CG	7:S5:67:PRO:HB3	2.54	0.42
7:S5:77:TYR:HB3	7:S5:84:LYS:HA	2.01	0.42
8:S6:14:LYS:HG2	8:S6:15:THR:N	2.34	0.42
10:S8:21:PHE:O	10:S8:22:ARG:HG2	2.20	0.42
10:S8:150:ALA:O	10:S8:152:ILE:HG13	2.20	0.42
12:C0:46:LEU:HD13	12:C0:46:LEU:HA	1.78	0.42
13:C1:22:ASN:OD1	13:C1:24:LYS:HB2	2.19	0.42
18:C6:143:ARG:HE	18:C6:143:ARG:HB2	1.60	0.42
20:C8:99:HIS:HD2	20:C8:101:LEU:HD21	1.85	0.42
21:C9:86:ARG:HH21	21:C9:89:ARG:HH21	1.67	0.42
27:D5:59:TYR:CD2	27:D5:64:VAL:HG21	2.55	0.42
34:SR:112:SER:OG	34:SR:153:GLN:HA	2.20	0.42
36:1:197:G:N2	36:1:372:A:C8	2.87	0.42
36:1:612:U:H2'	36:1:613:G:H8	1.83	0.42
36:1:1101:G:H1'	44:L7:105:LEU:HD23	2.00	0.42
36:1:1101:G:OP2	44:L7:196:LYS:HE2	2.19	0.42
36:1:1255:C:H2'	36:1:1256:G:H8	1.84	0.42
36:1:1821:U:C2	70:O4:67:LYS:HB2	2.54	0.42
36:1:2146:C:OP1	39:L2:200:ARG:NH1	2.53	0.42
36:1:2218:G:H2'	36:1:2219:A:C8	2.55	0.42
36:1:2385:G:OP1	86:1:3693:OHX:N4	2.53	0.42
36:1:3004:C:O2'	36:1:3005:A:H5'	2.20	0.42
36:1:3315:G:C5	40:L3:123:TYR:CE2	3.07	0.42
40:L3:284:ARG:HB3	40:L3:323:MET:HB2	2.01	0.42
44:L7:89:ILE:HD12	44:L7:214:TRP:CH2	2.55	0.42
48:M1:30:LEU:HD21	48:M1:67:VAL:HG13	2.01	0.42
54:M8:170:ARG:HA	54:M8:174:ARG:HD2	2.01	0.42
57:N1:25:VAL:HG23	57:N1:30:TYR:HE2	1.83	0.42
1:6:733:A:H2'	1:6:734:A:O4'	2.20	0.42
1:6:819:G:O2'	1:6:821:U:OP2	2.37	0.42
1:6:838:G:O6	86:6:1956:OHX:N5	2.53	0.42
1:6:914:G:H5'	1:6:914:G:C8	2.55	0.42
1:6:1158:C:H42	1:6:1163:A:H61	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1202:A:H2'	1:6:1203:A:H5"	2.01	0.42
1:6:1438:G:H2'	1:6:1439:C:O4'	2.20	0.42
1:6:1451:C:H2'	1:6:1452:U:H6	1.84	0.42
1:6:1645:G:H22	1:6:1756:A:H2	1.67	0.42
8:s6:162:VAL:N	8:s6:169:TYR:O	2.44	0.42
9:s7:166:LEU:HA	9:s7:166:LEU:HD12	1.73	0.42
17:c5:108:ARG:HH21	20:c8:119:ILE:HD12	1.85	0.42
28:d6:12:LYS:HE2	28:d6:16:GLY:CA	2.47	0.42
36:5:20:A:OP2	71:o5:90:ARG:NH1	2.53	0.42
36:5:244:G:C6	36:5:245:U:C4	3.08	0.42
36:5:261:U:H2'	36:5:262:U:C6	2.55	0.42
36:5:316:U:O2'	72:o6:30:LYS:NZ	2.29	0.42
36:5:532:A:O2'	36:5:533:A:H5'	2.19	0.42
36:5:1013:G:H2'	36:5:1014:U:O4'	2.20	0.42
36:5:1185:C:OP1	50:m4:42:LYS:HD3	2.20	0.42
36:5:1202:A:N6	36:5:1301:A:C4	2.88	0.42
36:5:1554:U:H4'	36:5:1555:U:OP1	2.20	0.42
36:5:1810:A:H2'	36:5:1811:G:C8	2.54	0.42
36:5:2195:C:OP2	86:5:3696:OHX:N4	2.52	0.42
36:5:2550:U:H6	81:l8:37:GLY:HA3	1.84	0.42
36:5:2584:G:H5'	36:5:2585:G:OP2	2.19	0.42
36:5:2603:G:O6	86:5:3406:OHX:N1	2.53	0.42
36:5:2683:U:H2'	36:5:2684:C:C6	2.55	0.42
36:5:2746:A:H5'	42:l5:178:ASN:ND2	2.34	0.42
36:5:2771:U:O2'	36:5:2772:C:O5'	2.36	0.42
36:5:2949:U:O2'	36:5:2950:G:H5'	2.20	0.42
36:5:3194:C:H2'	36:5:3195:U:H3'	2.01	0.42
36:5:3228:C:H4'	36:5:3229:G:O5'	2.20	0.42
37:7:28:C:OP1	48:m1:137:ARG:NH1	2.42	0.42
39:l2:47:GLN:HE21	39:l2:47:GLN:HB3	1.62	0.42
41:l4:329:PRO:O	41:l4:331:ALA:N	2.52	0.42
50:m4:47:ASP:C	50:m4:49:PRO:HD3	2.45	0.42
53:m7:25:SER:CB	53:m7:28:ASN:HB2	2.49	0.42
68:o2:19:ARG:HB2	68:o2:31:ASN:O	2.19	0.42
1:2:1047:G:H2'	1:2:1048:G:O4'	2.18	0.42
2:S0:88:LYS:HE2	2:S0:88:LYS:HA	2.02	0.42
2:S0:198:MET:SD	19:C7:85:VAL:HG21	2.59	0.42
3:S1:177:GLN:HE21	3:S1:177:GLN:HB3	1.51	0.42
3:S1:212:VAL:O	3:S1:214:LYS:N	2.46	0.42
5:S3:72:LEU:HD22	12:C0:65:TYR:HB3	2.02	0.42
6:S4:104:ASP:HB3	6:S4:106:LYS:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:183:ALA:HB2	7:S5:193:THR:OG1	2.19	0.42
13:C1:87:ARG:HH21	13:C1:104:HIS:CE1	2.38	0.42
17:C5:33:PHE:O	17:C5:36:LEU:HD23	2.20	0.42
17:C5:81:ARG:NH1	17:C5:120:SER:HB3	2.30	0.42
22:D0:17:GLN:HB3	22:D0:96:PRO:HB2	2.01	0.42
22:D0:23:ARG:HD3	22:D0:92:ASP:OD1	2.20	0.42
25:D3:114:LYS:HE2	25:D3:114:LYS:HB3	1.76	0.42
36:1:832:G:OP1	86:1:3508:OHX:N6	2.52	0.42
36:1:1857:C:C4	36:1:1858:A:C6	3.08	0.42
36:1:2320:A:H2	79:Q3:16:VAL:HG13	1.84	0.42
36:1:2504:U:H2'	36:1:2505:U:H5'	2.02	0.42
36:1:2513:U:O2'	36:1:2592:G:N1	2.33	0.42
36:1:2700:G:O2'	36:1:2705:A:N1	2.45	0.42
36:1:2860:U:H2'	36:1:2861:U:H5'	2.02	0.42
36:1:3007:U:OP1	52:M6:73:PHE:HA	2.20	0.42
36:1:3276:G:H1	69:O3:60:ARG:NH1	2.18	0.42
37:3:59:U:OP2	86:3:205:OHX:N3	2.53	0.42
40:L3:3:HIS:O	40:L3:4:ARG:C	2.62	0.42
41:L4:180:LYS:HB3	41:L4:180:LYS:HE3	1.72	0.42
44:L7:217:PRO:C	44:L7:218:ARG:HG2	2.45	0.42
45:L8:154:ALA:HB1	45:L8:183:LYS:HB3	2.00	0.42
47:M0:208:ASN:HB3	47:M0:211:ARG:HD2	2.02	0.42
49:M3:46:ILE:O	49:M3:47:ALA:HB3	2.18	0.42
59:N3:69:LEU:HG	59:N3:74:MET:HE1	2.00	0.42
61:N5:72:ALA:HA	61:N5:75:LYS:HG3	2.02	0.42
62:N6:27:ARG:HA	62:N6:30:LEU:HD12	2.02	0.42
68:O2:55:ILE:HD12	68:O2:55:ILE:HA	1.91	0.42
68:O2:103:LYS:O	68:O2:106:VAL:HG13	2.19	0.42
73:O7:65:ARG:HG3	73:O7:65:ARG:NH1	2.29	0.42
1:6:331:A:H5'	10:s8:33:PRO:HA	2.00	0.42
1:6:615:A:O2'	1:6:621:A:N1	2.44	0.42
1:6:1579:U:H2'	1:6:1580:C:H6	1.85	0.42
1:6:1754:A:H4'	1:6:1755:A:O5'	2.18	0.42
2:s0:10:THR:HB	2:s0:12:GLU:HG2	2.02	0.42
6:s4:105:VAL:HG21	6:s4:245:LYS:N	2.27	0.42
7:s5:109:LYS:O	7:s5:113:ILE:HG13	2.20	0.42
7:s5:145:ASP:CG	7:s5:146:THR:H	2.28	0.42
9:s7:143:LEU:HD13	9:s7:143:LEU:HA	1.82	0.42
13:c1:96:LYS:HD3	13:c1:97:TYR:CZ	2.54	0.42
24:d2:3:ARG:CZ	24:d2:29:PRO:HD3	2.50	0.42
34:sR:15:GLY:N	34:sR:45:TRP:HH2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1049:C:H2'	36:5:1050:U:H6	1.84	0.42
36:5:1121:U:C4	36:5:1122:U:C4	3.07	0.42
36:5:1131:G:C4	36:5:2373:A:C2	3.08	0.42
36:5:2911:A:H4'	36:5:2912:G:C8	2.55	0.42
36:5:3006:A:C2	36:5:3141:A:C4	3.08	0.42
36:5:3281:U:H2'	36:5:3282:U:O4'	2.19	0.42
36:5:3315:G:H2'	40:l3:123:TYR:CD1	2.54	0.42
38:8:104:A:C8	38:8:105:A:C8	3.07	0.42
40:l3:221:THR:O	40:l3:272:TYR:HA	2.19	0.42
47:m0:85:PHE:HA	47:m0:140:THR:HG22	2.01	0.42
47:m0:86:HIS:HB3	47:m0:139:ARG:CG	2.37	0.42
47:m0:101:LYS:HA	47:m0:101:LYS:HD2	1.66	0.42
52:m6:78:ARG:HH11	52:m6:78:ARG:CG	2.32	0.42
54:m8:2:GLY:C	54:m8:3:ILE:HD13	2.44	0.42
57:n1:65:TYR:HB3	57:n1:75:ILE:HG13	2.02	0.42
83:n4:96:LEU:H	83:n4:96:LEU:HG	1.65	0.42
63:n7:95:VAL:O	63:n7:100:THR:HG21	2.20	0.42
1:2:720:G:O2'	1:2:721:U:H5'	2.20	0.42
1:2:848:C:H2'	1:2:849:C:C6	2.55	0.42
1:2:1266:U:H2'	1:2:1267:G:H8	1.82	0.42
1:2:1393:C:H2'	1:2:1394:G:O4'	2.20	0.42
1:2:1789:G:H8	1:2:1789:G:C5'	2.33	0.42
10:S8:48:THR:HG21	10:S8:54:LYS:HB2	2.01	0.42
16:C4:57:PRO:HB3	16:C4:100:ALA:HB2	2.00	0.42
19:C7:37:GLU:HG3	34:SR:150:TRP:HE1	1.85	0.42
19:C7:57:LEU:O	19:C7:61:ILE:HG13	2.20	0.42
19:C7:108:ASP:O	19:C7:112:SER:OG	2.37	0.42
20:C8:57:ARG:HB2	20:C8:59:GLY:H	1.85	0.42
20:C8:70:VAL:HG12	20:C8:74:GLN:OE1	2.20	0.42
22:D0:22:ILE:HG22	22:D0:93:LEU:HB2	2.02	0.42
34:SR:217:ASP:N	34:SR:217:ASP:OD1	2.53	0.42
35:SM:112:ASP:OD1	35:SM:115:LYS:HG3	2.20	0.42
36:1:65:A:H4'	36:1:66:A:O5'	2.20	0.42
36:1:138:U:H2'	36:1:139:G:H8	1.84	0.42
36:1:663:C:H2'	36:1:664:U:H6	1.85	0.42
36:1:976:U:H5'	54:M8:144:ARG:NH1	2.34	0.42
36:1:1231:A:H2	36:1:1278:A:N7	2.18	0.42
36:1:1492:G:O2'	75:O9:48:LYS:NZ	2.53	0.42
36:1:1493:G:C6	75:O9:2:ALA:HB2	2.54	0.42
36:1:1496:C:C2	36:1:1521:G:N2	2.88	0.42
36:1:1554:U:C4	36:1:1582:C:H2'	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2512:C:C4	36:1:2513:U:O4	2.72	0.42
36:1:2724:U:H4'	57:N1:54:HIS:CD2	2.54	0.42
38:4:88:A:H2'	38:4:89:A:O4'	2.20	0.42
40:L3:139:GLN:OE1	40:L3:142:ALA:HB3	2.20	0.42
40:L3:261:MET:HE2	52:M6:64:PHE:CA	2.50	0.42
42:L5:85:ARG:HH21	42:L5:254:LYS:N	2.18	0.42
42:L5:107:ARG:HH21	42:L5:110:LEU:HD23	1.85	0.42
42:L5:184:ASP:OD1	42:L5:187:THR:N	2.53	0.42
43:L6:40:LEU:HD13	43:L6:84:VAL:HG21	2.02	0.42
46:L9:27:VAL:HG12	46:L9:82:VAL:HG11	2.02	0.42
49:M3:57:VAL:N	49:M3:112:ASN:OD1	2.49	0.42
53:M7:30:ARG:C	53:M7:30:ARG:HD3	2.45	0.42
65:N9:58:LYS:HD2	65:N9:58:LYS:HA	1.80	0.42
66:O0:86:ARG:NH1	79:Q3:44:LYS:HG2	2.35	0.42
67:O1:72:ARG:O	67:O1:96:VAL:HG13	2.20	0.42
1:6:273:G:H8	1:6:273:G:O5'	2.03	0.42
1:6:526:A:H2'	1:6:527:A:O4'	2.20	0.42
1:6:711:U:H5'	1:6:712:G:OP2	2.20	0.42
1:6:1111:G:C6	1:6:1112:G:C4	3.08	0.42
1:6:1424:A:O2'	4:s2:92:ALA:HB1	2.20	0.42
6:s4:246:LEU:HD21	6:s4:254:ARG:CZ	2.50	0.42
11:s9:104:PHE:O	11:s9:147:MET:HE1	2.20	0.42
16:c4:92:LYS:HB2	16:c4:92:LYS:HE2	1.61	0.42
27:d5:104:ALA:C	27:d5:105:THR:HG1	2.21	0.42
30:d8:11:LYS:O	30:d8:31:GLU:N	2.37	0.42
30:d8:26:THR:HB	30:d8:44:VAL:HG22	2.02	0.42
34:sR:193:ILE:HG22	34:sR:194:GLY:N	2.34	0.42
36:5:128:G:H2'	36:5:129:U:O4'	2.19	0.42
36:5:738:A:H2'	36:5:739:G:C8	2.54	0.42
36:5:784:A:C6	54:m8:93:ILE:HG23	2.55	0.42
36:5:1567:U:H2'	36:5:1568:U:H4'	2.01	0.42
36:5:1709:C:OP1	70:o4:83:ASN:ND2	2.52	0.42
36:5:2101:C:H2'	36:5:2102:U:C6	2.54	0.42
36:5:2211:U:OP2	86:5:3708:OHX:N1	2.52	0.42
36:5:3106:A:H61	36:5:3128:G:H1'	1.84	0.42
36:5:3351:U:H3'	36:5:3351:U:O2	2.20	0.42
86:5:3534:OHX:N3	86:5:3582:OHX:N4	2.67	0.42
38:8:68:G:O6	86:8:213:OHX:N6	2.53	0.42
41:l4:144:LYS:C	41:l4:145:ILE:HG23	2.45	0.42
41:l4:361:HIS:O	56:n0:28:ARG:NH2	2.53	0.42
42:l5:260:PHE:HA	42:l5:264:GLN:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:l6:44:ALA:C	43:l6:48:ARG:HB3	2.45	0.42
81:l8:230:LYS:HE3	81:l8:230:LYS:HB2	1.91	0.42
47:m0:116:ARG:HE	47:m0:116:ARG:HB2	1.60	0.42
51:m5:163:GLY:HA2	51:m5:168:GLY:HA3	2.01	0.42
62:n6:36:SER:HB2	62:n6:37:LYS:HZ1	1.84	0.42
65:n9:20:GLY:O	65:n9:21:ILE:HB	2.20	0.42
66:o0:13:LYS:HB3	66:o0:100:ILE:HG23	2.02	0.42
70:o4:46:ASP:OD1	70:o4:80:ARG:HD2	2.20	0.42
74:o8:11:PHE:O	74:o8:15:THR:HG23	2.20	0.42
1:2:448:C:OP1	6:S4:29:PRO:HD3	2.19	0.42
1:2:830:U:O2	1:2:830:U:H2'	2.20	0.42
1:2:1357:A:H2'	1:2:1358:G:H8	1.85	0.42
1:2:1522:U:OP2	86:2:1937:OHX:N3	2.53	0.42
3:S1:32:ILE:HG13	3:S1:96:LEU:HD21	2.00	0.42
4:S2:38:VAL:HG22	4:S2:39:THR:N	2.34	0.42
5:S3:29:LEU:HD23	5:S3:29:LEU:HA	1.84	0.42
8:S6:122:GLU:O	8:S6:126:ASP:HB3	2.20	0.42
14:C2:94:ALA:O	14:C2:97:LEU:N	2.50	0.42
18:C6:8:GLN:H	18:C6:8:GLN:HG2	1.70	0.42
19:C7:74:GLN:HA	19:C7:77:GLU:HB2	2.01	0.42
19:C7:106:THR:O	19:C7:109:LEU:HB3	2.19	0.42
33:E1:107:LYS:O	33:E1:114:VAL:HA	2.20	0.42
34:SR:103:PHE:CD1	34:SR:138:GLY:HA2	2.55	0.42
36:1:44:U:OP1	51:M5:84:PRO:HG2	2.20	0.42
36:1:666:A:C2	49:M3:10:LEU:HD13	2.55	0.42
36:1:821:U:H2'	36:1:822:G:H8	1.84	0.42
36:1:1382:G:OP2	41:L4:188:ARG:NH1	2.51	0.42
36:1:1565:G:N2	36:1:1566:A:H1'	2.34	0.42
36:1:2727:A:H4'	36:1:2728:G:OP2	2.20	0.42
36:1:2730:G:H4'	54:M8:184:PHE:CG	2.55	0.42
36:1:2771:U:O2'	36:1:2772:C:O5'	2.36	0.42
36:1:2777:G:H5"	36:1:2778:G:OP1	2.20	0.42
36:1:2865:U:O4	86:1:3441:OHX:N3	2.53	0.42
36:1:2988:C:O2'	40:L3:266:ARG:HD2	2.20	0.42
39:L2:5:ILE:HG22	39:L2:208:ASP:O	2.20	0.42
40:L3:107:ALA:HA	40:L3:199:PHE:CD2	2.54	0.42
40:L3:296:THR:HG21	40:L3:356:LEU:O	2.20	0.42
40:L3:305:ILE:H	40:L3:305:ILE:HG13	1.57	0.42
45:L8:67:ILE:HG23	45:L8:237:ILE:HD12	2.01	0.42
46:L9:76:ASP:O	46:L9:79:ILE:N	2.53	0.42
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:32:LYS:O	49:M3:36:ARG:HG3	2.20	0.42
50:M4:99:TRP:O	50:M4:103:ILE:HG13	2.19	0.42
53:M7:60:PHE:CZ	53:M7:84:PRO:HG3	2.55	0.42
63:N7:4:PHE:CZ	66:O0:35:ARG:HG2	2.55	0.42
68:O2:8:LYS:HB2	68:O2:8:LYS:HE3	1.53	0.42
76:Q0:89:TYR:O	76:Q0:93:LYS:HE2	2.19	0.42
1:6:93:A:C6	1:6:398:G:C6	3.08	0.42
1:6:499:U:O2	1:6:500:C:N4	2.53	0.42
1:6:1333:C:C4'	5:s3:162:GLN:HG3	2.50	0.42
5:s3:190:ARG:HH12	5:s3:195:SER:HA	1.85	0.42
23:d1:8:LEU:HD22	23:d1:9:VAL:H	1.85	0.42
36:5:92:G:H5'	36:5:93:C:O5'	2.20	0.42
36:5:150:A:C5	36:5:151:A:N7	2.88	0.42
36:5:287:G:OP1	51:m5:179:LYS:HD3	2.20	0.42
36:5:378:A:H3'	36:5:379:C:C6	2.55	0.42
36:5:1054:A:OP1	86:5:3587:OHX:N4	2.53	0.42
36:5:1573:G:C6	36:5:1574:C:H1'	2.55	0.42
36:5:1746:U:H2'	36:5:1747:G:C8	2.54	0.42
36:5:1815:U:HO2'	36:5:1816:A:P	2.40	0.42
36:5:2618:G:O4'	65:n9:3:LYS:HE3	2.19	0.42
37:7:24:A:H2'	37:7:25:G:O4'	2.20	0.42
41:l4:141:ARG:CZ	41:l4:180:LYS:HD3	2.50	0.42
42:l5:222:LEU:HD23	42:l5:222:LEU:HA	1.87	0.42
42:l5:259:LYS:H	42:l5:259:LYS:HG2	1.34	0.42
44:l7:143:THR:O	44:l7:147:LEU:HB2	2.20	0.42
81:l8:153:ILE:O	81:l8:180:VAL:N	2.53	0.42
82:m2:54:UNK:HA	82:m2:55:UNK:HA	1.69	0.42
70:o4:84:CYS:O	70:o4:88:ARG:HB2	2.19	0.42
73:o7:25:ARG:HH11	73:o7:25:ARG:HB3	1.85	0.42
1:2:209:U:H2'	1:2:210:A:H8	1.85	0.42
1:2:333:A:OP1	10:S8:31:ARG:NH2	2.52	0.42
1:2:1066:C:O3'	3:S1:149:GLN:HG3	2.20	0.42
1:2:1351:G:C2	1:2:1375:A:C2	3.08	0.42
1:2:1352:G:H2'	1:2:1353:U:O4'	2.20	0.42
1:2:1356:U:H2'	1:2:1357:A:C8	2.53	0.42
1:2:1534:G:OP2	27:D5:74:SER:OG	2.25	0.42
3:S1:116:LYS:HB3	3:S1:117:TRP:CE3	2.54	0.42
7:S5:20:PHE:CD2	7:S5:35:GLN:HG3	2.55	0.42
7:S5:62:VAL:HG22	7:S5:89:ILE:HG21	2.01	0.42
7:S5:156:ARG:H	7:S5:156:ARG:HG3	1.49	0.42
9:S7:173:TYR:HE1	9:S7:179:LYS:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:86:LEU:HD13	11:S9:96:VAL:HG12	2.01	0.42
25:D3:107:PHE:HD1	25:D3:107:PHE:HA	1.75	0.42
36:1:821:U:H2'	36:1:822:G:C8	2.55	0.42
36:1:1581:C:C2	36:1:1582:C:H5'	2.55	0.42
36:1:2150:G:O2'	36:1:2189:U:OP1	2.27	0.42
36:1:2369:G:H2'	36:1:2370:G:C8	2.55	0.42
36:1:2736:A:O3'	57:N1:71:SER:OG	2.37	0.42
36:1:3117:C:H2'	36:1:3118:C:H5'	2.02	0.42
36:1:3218:A:H5"	36:1:3219:G:C5	2.55	0.42
38:4:121:U:H2'	38:4:122:U:C6	2.55	0.42
38:4:141:C:OP1	51:M5:109:ARG:NH1	2.52	0.42
39:L2:104:LEU:HD12	39:L2:104:LEU:HA	1.92	0.42
40:L3:27:ALA:HB3	40:L3:218:ILE:HG22	2.02	0.42
44:L7:166:ASN:OD1	44:L7:181:ILE:N	2.41	0.42
46:L9:126:VAL:HG21	46:L9:161:LEU:HA	2.02	0.42
47:M0:47:PRO:HB3	47:M0:171:TRP:CE2	2.54	0.42
52:M6:68:ARG:H	52:M6:68:ARG:HG2	1.58	0.42
61:N5:105:VAL:CG1	61:N5:106:ASP:N	2.82	0.42
64:N8:65:GLN:O	64:N8:66:ALA:HB3	2.20	0.42
1:6:67:A:N6	1:6:83:G:O2'	2.50	0.42
1:6:825:U:O2'	1:6:826:U:P	2.78	0.42
1:6:829:A:H4'	1:6:829:A:OP1	2.20	0.42
1:6:984:G:H2'	1:6:985:G:O4'	2.19	0.42
1:6:1060:U:H4'	1:6:1061:A:H5"	2.02	0.42
1:6:1381:U:H4'	22:d0:59:PRO:HG3	2.02	0.42
1:6:1469:A:H2'	1:6:1470:C:C6	2.55	0.42
6:s4:184:THR:C	6:s4:189:LEU:HD13	2.44	0.42
7:s5:143:ARG:NH1	7:s5:218:GLU:OE2	2.53	0.42
9:s7:154:LEU:HD11	9:s7:183:PHE:CD1	2.55	0.42
17:c5:10:ARG:NH2	17:c5:70:ASN:OD1	2.52	0.42
20:c8:13:HIS:O	20:c8:14:ILE:HG22	2.19	0.42
20:c8:73:MET:HE3	20:c8:73:MET:HB2	1.97	0.42
20:c8:134:ARG:O	20:c8:136:GLN:N	2.53	0.42
22:d0:28:SER:HB2	22:d0:112:VAL:HA	2.01	0.42
33:e1:103:LEU:HD23	33:e1:103:LEU:HA	1.54	0.42
34:sR:220:ILE:O	34:sR:234:LEU:N	2.53	0.42
36:5:225:C:O3'	62:n6:32:SER:OG	2.37	0.42
36:5:355:A:H2'	36:5:356:C:O4'	2.20	0.42
36:5:570:A:H2'	36:5:571:U:O4'	2.20	0.42
36:5:598:A:OP1	44:l7:41:ARG:NH1	2.53	0.42
36:5:1108:U:H2'	36:5:1109:U:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1347:U:H3'	54:m8:38:ARG:NH2	2.35	0.42
36:5:1477:A:OP1	36:5:3075:G:O2'	2.32	0.42
36:5:1778:G:O2'	36:5:1780:G:OP2	2.34	0.42
36:5:2786:G:O6	86:5:3645:OHX:N4	2.52	0.42
36:5:3122:A:H2'	36:5:3123:A:H5'	2.02	0.42
36:5:3165:A:H61	36:5:3285:C:N4	2.18	0.42
36:5:3362:A:C2	36:5:3363:U:C2	3.08	0.42
39:l2:101:VAL:HA	39:l2:164:GLY:O	2.20	0.42
40:l3:109:HIS:HB2	40:l3:200:GLU:OE1	2.20	0.42
41:l4:126:ILE:HG13	41:l4:238:LEU:HD13	2.01	0.42
44:l7:229:PHE:CD1	44:l7:229:PHE:O	2.73	0.42
46:l9:8:GLN:HE22	46:l9:69:ARG:HH11	1.68	0.42
48:m1:166:LYS:O	48:m1:167:TYR:HB2	2.19	0.42
51:m5:185:ALA:HB3	51:m5:190:THR:CG2	2.50	0.42
83:n4:27:LYS:HD3	83:n4:29:PHE:CZ	2.54	0.42
64:n8:70:LYS:HB2	64:n8:70:LYS:HE3	1.93	0.42
71:o5:90:ARG:HG2	71:o5:90:ARG:H	1.67	0.42
1:2:15:U:H2'	1:2:16:G:O4'	2.20	0.41
1:2:61:A:H8	1:2:269:G:O2'	2.03	0.41
1:2:256:A:H2'	1:2:257:A:O4'	2.20	0.41
1:2:322:G:OP1	86:2:1966:OHX:N4	2.53	0.41
1:2:779:U:OP2	1:2:780:A:H2	2.03	0.41
1:2:889:U:H2'	1:2:890:C:O4'	2.20	0.41
1:2:1524:A:C6	1:2:1525:A:C6	3.08	0.41
7:S5:65:ARG:HA	7:S5:67:PRO:HD3	2.02	0.41
8:S6:2:LYS:HB3	8:S6:108:VAL:HG22	2.02	0.41
11:S9:171:ARG:NH1	11:S9:174:ARG:HG3	2.35	0.41
18:C6:120:ASP:OD1	18:C6:121:SER:N	2.52	0.41
24:D2:103:ILE:HD11	24:D2:126:LEU:HD13	2.02	0.41
26:D4:14:SER:O	26:D4:16:PRO:HD3	2.19	0.41
28:D6:33:ASP:N	28:D6:33:ASP:OD1	2.53	0.41
32:E0:55:ARG:HB3	32:E0:58:PRO:HG3	2.01	0.41
33:E1:91:ILE:HG12	33:E1:92:LYS:N	2.35	0.41
34:SR:172:ALA:HB2	34:SR:202:LEU:HD13	2.01	0.41
35:SM:87:THR:O	35:SM:88:ARG:HB3	2.20	0.41
36:1:590:G:C2	36:1:610:G:H2'	2.55	0.41
36:1:806:A:C4	36:1:936:A:C2	3.08	0.41
36:1:971:G:H2'	36:1:972:A:O4'	2.20	0.41
36:1:1517:G:P	75:O9:41:ARG:HH22	2.43	0.41
36:1:1603:A:OP1	55:M9:38:ARG:NH1	2.53	0.41
36:1:2113:A:O2'	36:1:2116:G:N7	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2217:U:H2'	36:1:2218:G:H8	1.84	0.41
36:1:2395:G:H5"	40:L3:255:TRP:CD1	2.54	0.41
36:1:2421:U:O2'	78:Q2:52:GLY:HA3	2.20	0.41
36:1:2880:U:H1'	40:L3:250:ALA:CB	2.50	0.41
36:1:2892:A:H2'	36:1:2893:C:H6	1.85	0.41
36:1:3020:U:H2'	36:1:3033:A:N6	2.35	0.41
36:1:3085:G:H5"	36:1:3086:A:OP1	2.20	0.41
37:3:48:U:O4	42:L5:58:LYS:HE2	2.20	0.41
41:L4:31:ARG:O	41:L4:35:VAL:HG23	2.20	0.41
41:L4:271:LYS:O	41:L4:272:VAL:C	2.62	0.41
42:L5:60:ILE:HB	42:L5:80:SER:HB3	2.01	0.41
42:L5:244:HIS:O	42:L5:248:ARG:HG3	2.20	0.41
43:L6:176:PHE:O	50:M4:113:THR:HG23	2.20	0.41
44:L7:26:VAL:HG13	44:L7:27:ALA:N	2.31	0.41
46:L9:2:LYS:HA	46:L9:2:LYS:HD2	1.74	0.41
46:L9:29:GLY:HA3	46:L9:82:VAL:HG13	2.01	0.41
51:M5:133:ILE:HG13	51:M5:133:ILE:O	2.20	0.41
55:M9:81:ARG:HG3	55:M9:88:ARG:CZ	2.50	0.41
1:6:66:U:H1'	8:s6:160:ARG:HH21	1.85	0.41
1:6:74:U:H5"	1:6:75:U:OP2	2.20	0.41
1:6:149:C:H2'	1:6:150:U:H6	1.85	0.41
1:6:527:A:OP2	86:6:1938:OHX:N5	2.53	0.41
1:6:697:C:OP2	86:6:1929:OHX:N3	2.53	0.41
1:6:869:A:H5'	15:c3:90:TYR:CG	2.55	0.41
3:s1:66:VAL:HG12	16:c4:33:LEU:HB3	2.02	0.41
3:s1:168:ILE:O	3:s1:172:LEU:HG	2.19	0.41
5:s3:66:ILE:HD11	5:s3:86:LEU:HB3	2.02	0.41
6:s4:86:PHE:CZ	6:s4:87:MET:HE2	2.55	0.41
6:s4:166:SER:OG	6:s4:168:LYS:HB2	2.20	0.41
7:s5:109:LYS:HB2	7:s5:109:LYS:HE3	1.76	0.41
7:s5:186:ASN:OD1	7:s5:188:LYS:HB2	2.19	0.41
14:c2:40:GLY:HA3	14:c2:125:ASN:O	2.20	0.41
22:d0:53:LYS:HD3	22:d0:53:LYS:HA	1.84	0.41
32:e0:55:ARG:HA	32:e0:55:ARG:HD2	1.82	0.41
34:sR:15:GLY:H	34:sR:45:TRP:HH2	1.68	0.41
34:sR:81:LEU:HD23	34:sR:81:LEU:HA	1.90	0.41
36:5:591:G:N2	36:5:612:U:OP1	2.43	0.41
36:5:651:G:C6	36:5:652:G:C6	3.08	0.41
36:5:671:U:OP2	54:m8:57:ILE:HD12	2.20	0.41
36:5:731:U:H2'	36:5:732:C:C6	2.52	0.41
36:5:1141:C:H2'	36:5:1142:G:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2989:U:H2'	36:5:2990:G:O4'	2.20	0.41
36:5:2991:A:O2'	36:5:3308:C:N4	2.46	0.41
86:5:3591:OHX:N1	68:o2:14:THR:O	2.53	0.41
38:8:49:G:O2'	71:o5:40:SER:HA	2.20	0.41
38:8:59:A:O2'	61:n5:61:LYS:NZ	2.54	0.41
39:l2:89:TYR:HD2	39:l2:100:ASN:HD21	1.68	0.41
39:l2:104:LEU:HD22	39:l2:158:ILE:HD11	2.02	0.41
40:l3:303:LYS:HD2	40:l3:361:THR:HG21	2.02	0.41
41:l4:45:ASN:O	41:l4:110:ASN:ND2	2.53	0.41
46:l9:91:ARG:HG2	46:l9:182:SER:HB3	2.02	0.41
50:m4:72:LEU:HD11	50:m4:81:VAL:HG22	2.01	0.41
54:m8:80:THR:HB	54:m8:100:THR:OG1	2.20	0.41
56:n0:157:GLN:H	56:n0:157:GLN:HG2	1.48	0.41
57:n1:139:ARG:HG2	57:n1:139:ARG:HH21	1.85	0.41
83:n4:13:ILE:HG12	83:n4:32:GLN:HG2	2.02	0.41
66:o0:54:SER:HA	66:o0:57:GLU:OE2	2.20	0.41
68:o2:9:ILE:HG23	68:o2:63:THR:HB	2.00	0.41
74:o8:36:LYS:HA	74:o8:37:PRO:HD3	1.87	0.41
1:2:341:A:H2'	1:2:342:C:H6	1.85	0.41
1:2:901:G:C6	1:2:902:G:C6	3.08	0.41
1:2:1288:G:C2	1:2:1289:U:C6	3.08	0.41
2:S0:177:LEU:HD23	2:S0:177:LEU:HA	1.90	0.41
6:S4:35:PRO:HB3	6:S4:143:ASP:O	2.19	0.41
9:S7:39:ARG:N	9:S7:40:PRO:HD2	2.34	0.41
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.78	0.41
20:C8:6:GLN:C	27:D5:42:LEU:HD22	2.46	0.41
21:C9:52:GLY:O	21:C9:54:PHE:N	2.45	0.41
34:SR:40:LYS:HB3	34:SR:64:HIS:O	2.19	0.41
36:1:181:U:H2'	36:1:182:U:O4'	2.19	0.41
36:1:1295:G:H2'	36:1:1296:C:C6	2.55	0.41
36:1:1637:A:P	63:N7:73:LYS:HZ2	2.43	0.41
36:1:1845:G:O2'	73:O7:5:THR:HG22	2.20	0.41
36:1:1940:G:N2	36:1:3362:A:C8	2.87	0.41
36:1:2393:G:O2'	36:1:2394:G:OP2	2.37	0.41
36:1:2553:U:O4'	66:O0:50:VAL:HB	2.21	0.41
36:1:2817:A:H4'	36:1:2818:U:OP2	2.20	0.41
36:1:3109:G:C2	36:1:3126:C:C2	3.08	0.41
38:4:35:C:H5"	73:O7:70:VAL:HG11	2.02	0.41
42:L5:38:THR:HG22	57:N1:30:TYR:CB	2.50	0.41
45:L8:53:PRO:HB2	45:L8:55:TYR:CD2	2.56	0.41
47:M0:16:PRO:O	47:M0:18:PRO:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:72:ALA:HB2	47:M0:155:ALA:HB2	2.02	0.41
47:M0:74:LYS:HB2	47:M0:74:LYS:HE3	1.65	0.41
51:M5:68:ARG:HG2	51:M5:128:LYS:HG3	2.02	0.41
58:N2:51:GLY:C	58:N2:53:ALA:H	2.27	0.41
58:N2:86:LYS:HA	58:N2:86:LYS:HD2	1.85	0.41
60:N4:23:ARG:NH2	60:N4:27:LYS:HD3	2.35	0.41
69:O3:13:HIS:HB3	69:O3:93:THR:O	2.19	0.41
1:6:279:G:C6	1:6:281:G:C5	3.08	0.41
1:6:444:C:H5	26:d4:105:ARG:NH2	2.18	0.41
1:6:794:U:H2'	1:6:794:U:OP2	2.20	0.41
1:6:862:A:H4'	1:6:863:A:O5'	2.20	0.41
1:6:961:U:H2'	1:6:962:C:C6	2.55	0.41
1:6:1209:C:H42	1:6:1454:G:H1	1.67	0.41
1:6:1410:A:H2'	1:6:1411:A:O4'	2.20	0.41
1:6:1541:G:C6	1:6:1542:G:N1	2.89	0.41
2:s0:185:ARG:HB3	2:s0:186:GLY:H	1.77	0.41
5:s3:21:LEU:HD23	5:s3:21:LEU:HA	1.82	0.41
6:s4:11:ARG:HB2	6:s4:27:TYR:C	2.45	0.41
8:s6:7:TYR:HD1	8:s6:125:THR:HA	1.85	0.41
10:s8:117:TYR:CD1	10:s8:150:ALA:HA	2.55	0.41
10:s8:136:SER:O	10:s8:140:GLU:HG3	2.21	0.41
11:s9:116:LEU:O	11:s9:118:LEU:HD12	2.19	0.41
11:s9:176:ASN:HA	11:s9:179:ARG:HG2	2.02	0.41
17:c5:67:ALA:HB2	17:c5:73:PRO:HA	2.01	0.41
19:c7:31:ASN:H	19:c7:31:ASN:HD22	1.68	0.41
26:d4:27:VAL:HG11	26:d4:35:VAL:HG11	2.02	0.41
27:d5:82:HIS:O	27:d5:85:LYS:N	2.43	0.41
29:d7:7:LEU:HD23	29:d7:7:LEU:HA	1.84	0.41
80:sM:83:LYS:O	80:sM:84:LYS:HB2	2.20	0.41
36:5:398:A:N7	53:m7:3:ARG:NH2	2.68	0.41
36:5:1296:C:H5'	56:n0:115:ARG:NH1	2.36	0.41
36:5:1348:U:O4'	36:5:1355:A:N6	2.53	0.41
36:5:2150:G:H1	36:5:2186:U:H3	1.67	0.41
36:5:2178:A:H5"	39:l2:129:ALA:HB3	2.02	0.41
36:5:2371:G:O6	86:5:3411:OHX:N4	2.53	0.41
36:5:2585:G:H2'	36:5:2585:G:N3	2.36	0.41
36:5:2660:G:H5"	36:5:2750:U:O2'	2.20	0.41
36:5:3259:U:H5"	36:5:3261:C:H5	1.85	0.41
39:l2:40:TYR:HA	39:l2:91:GLY:HA3	2.01	0.41
42:l5:95:TRP:HZ3	42:l5:156:GLY:O	2.03	0.41
43:l6:82:ARG:HD2	43:l6:82:ARG:HA	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:l8:94:PHE:CZ	81:l8:200:LEU:HG	2.56	0.41
46:l9:88:TYR:CE2	46:l9:184:LYS:HE2	2.55	0.41
48:m1:13:LYS:H	48:m1:13:LYS:HG3	1.63	0.41
68:o2:64:LYS:HG2	68:o2:65:PHE:CD2	2.55	0.41
69:o3:8:TYR:HB3	69:o3:101:PHE:CE1	2.55	0.41
79:q3:80:ARG:HE	79:q3:80:ARG:HB2	1.53	0.41
84:p0:93:LEU:HD12	84:p0:94:THR:H	1.85	0.41
1:2:513:U:H2'	1:2:514:G:C8	2.54	0.41
1:2:741:C:O2	9:S7:107:ARG:NH1	2.53	0.41
1:2:867:G:C4	1:2:868:G:C8	3.08	0.41
2:S0:7:PHE:HD2	2:S0:7:PHE:HA	1.68	0.41
2:S0:110:TYR:HA	2:S0:115:PHE:CE2	2.55	0.41
3:S1:222:LYS:HD3	3:S1:223:PHE:H	1.85	0.41
6:S4:211:LYS:HB3	6:S4:217:THR:HG22	2.03	0.41
12:C0:54:TYR:O	12:C0:68:LEU:HD12	2.20	0.41
13:C1:27:THR:HG23	13:C1:29:LYS:HG2	2.03	0.41
14:C2:81:ASP:N	14:C2:81:ASP:OD1	2.53	0.41
15:C3:61:THR:OG1	15:C3:62:GLN:N	2.54	0.41
22:D0:58:LEU:HD12	22:D0:88:LYS:HD2	2.01	0.41
28:D6:75:VAL:O	28:D6:76:SER:C	2.63	0.41
36:1:345:G:O2'	38:4:25:G:N3	2.51	0.41
36:1:1103:A:H2	54:M8:9:GLN:HE22	1.67	0.41
36:1:1210:U:H5'	46:L9:63:LYS:HE3	2.03	0.41
36:1:1595:U:C2	36:1:1596:C:C5	3.09	0.41
36:1:1651:U:H2'	36:1:1652:G:H8	1.85	0.41
36:1:1820:U:H1'	36:1:1821:U:OP2	2.20	0.41
36:1:2242:A:H5"	39:L2:244:GLY:HA3	2.02	0.41
36:1:2828:G:HO2'	47:M0:4:ARG:HE	1.60	0.41
37:3:99:G:OP1	56:N0:53:LYS:HD3	2.20	0.41
39:L2:245:LEU:HG	39:L2:247:ARG:HD2	2.02	0.41
40:L3:252:ILE:HG23	40:L3:260:VAL:HB	2.01	0.41
46:L9:112:ILE:HD11	46:L9:134:ILE:HG12	2.01	0.41
51:M5:138:GLN:HA	51:M5:143:ARG:NH1	2.35	0.41
63:N7:14:VAL:HG13	70:O4:86:LYS:HG3	2.01	0.41
67:O1:10:ARG:NH1	67:O1:12:TYR:OH	2.54	0.41
79:Q3:55:TRP:CE3	79:Q3:71:VAL:HG22	2.55	0.41
1:6:25:C:H6	1:6:25:C:H2'	1.56	0.41
1:6:149:C:H2'	1:6:150:U:C6	2.55	0.41
1:6:1068:C:H2'	1:6:1069:A:C8	2.56	0.41
1:6:1336:A:OP1	86:6:2024:OHX:N1	2.53	0.41
1:6:1586:A:H2'	1:6:1587:A:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1598:U:OP1	86:6:1965:OHX:N3	2.53	0.41
1:6:1688:U:H3	1:6:1713:G:H1	1.67	0.41
86:6:1922:OHX:N4	86:6:1930:OHX:N1	2.68	0.41
2:s0:5:ALA:O	2:s0:8:ASP:HB2	2.21	0.41
7:s5:27:THR:OG1	18:c6:28:LEU:HA	2.20	0.41
7:s5:73:THR:HG22	7:s5:74:ALA:N	2.36	0.41
8:s6:151:ASP:OD2	83:n4:101:ARG:HD2	2.20	0.41
9:s7:89:HIS:CG	9:s7:165:LYS:HG2	2.56	0.41
11:s9:171:ARG:HE	11:s9:171:ARG:HA	1.85	0.41
12:c0:46:LEU:O	12:c0:50:THR:HG23	2.21	0.41
13:c1:54:ILE:HD13	13:c1:54:ILE:HA	1.87	0.41
14:c2:44:GLY:HA2	14:c2:120:VAL:O	2.20	0.41
15:c3:71:ILE:O	15:c3:75:LEU:HD12	2.20	0.41
15:c3:83:GLU:HG3	15:c3:84:ILE:HG23	2.02	0.41
16:c4:10:ASN:O	16:c4:12:GLN:HG2	2.20	0.41
17:c5:112:LEU:HD23	17:c5:112:LEU:HA	1.86	0.41
18:c6:94:GLN:HG3	18:c6:95:LYS:N	2.36	0.41
29:d7:31:TYR:CD2	29:d7:48:SER:HB3	2.56	0.41
32:e0:13:LYS:HD2	32:e0:17:GLN:OE1	2.20	0.41
33:e1:126:CYS:CB	33:e1:130:VAL:HG21	2.37	0.41
34:sR:225:LEU:O	34:sR:228:LYS:HD3	2.21	0.41
36:5:192:C:H2'	36:5:193:C:H6	1.85	0.41
36:5:594:U:H5"	36:5:609:G:O6	2.20	0.41
36:5:776:U:C5	36:5:2719:U:O2	2.69	0.41
36:5:1133:A:H1'	36:5:2618:G:O6	2.21	0.41
36:5:1157:G:C2	36:5:1158:A:H1'	2.54	0.41
36:5:2406:C:H2'	36:5:2407:C:C6	2.55	0.41
36:5:2573:G:O6	86:5:3687:OHX:N6	2.53	0.41
36:5:2592:G:H4'	36:5:2594:C:C2	2.56	0.41
38:8:62:C:H4'	38:8:63:G:O5'	2.20	0.41
59:n3:18:PRO:HA	59:n3:51:ALA:HA	2.01	0.41
59:n3:74:MET:HE3	59:n3:74:MET:HB3	1.71	0.41
64:n8:6:THR:CG2	64:n8:8:THR:HG23	2.47	0.41
66:o0:66:LYS:H	66:o0:66:LYS:HD2	1.86	0.41
66:o0:99:ASP:O	66:o0:101:LEU:N	2.53	0.41
1:2:72:A:C2	1:2:73:U:N3	2.89	0.41
1:2:196:G:C2	1:2:197:A:H1'	2.55	0.41
1:2:239:C:H6	1:2:239:C:H2'	1.66	0.41
1:2:1229:G:HO2'	1:2:1255:G:N2	2.18	0.41
1:2:1435:G:H4'	1:2:1436:A:H5'	2.03	0.41
2:S0:4:PRO:HG2	2:S0:7:PHE:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:171:GLY:HA3	2:S0:203:PHE:HD2	1.85	0.41
3:S1:181:LEU:HD13	3:S1:181:LEU:H	1.86	0.41
5:S3:211:PRO:HG3	19:C7:20:TYR:CZ	2.54	0.41
10:S8:37:LYS:H	10:S8:59:ARG:H	1.68	0.41
15:C3:130:ARG:HD3	15:C3:137:PRO:HA	2.01	0.41
18:C6:97:VAL:HG22	18:C6:101:SER:OG	2.21	0.41
25:D3:30:LYS:HD2	25:D3:34:LEU:HD11	2.02	0.41
26:D4:91:LEU:HD22	26:D4:96:LEU:HD12	2.02	0.41
28:D6:78:ALA:O	28:D6:84:VAL:HG22	2.20	0.41
30:D8:5:THR:HA	30:D8:6:PRO:HD3	1.89	0.41
36:1:81:C:H2'	36:1:82:C:H6	1.85	0.41
36:1:539:C:H2'	36:1:540:U:H6	1.86	0.41
36:1:639:G:OP1	68:O2:37:GLY:HA3	2.21	0.41
36:1:1065:A:C4	65:N9:28:LYS:HG2	2.56	0.41
36:1:1686:U:O2	36:1:1688:U:H1'	2.20	0.41
36:1:1782:U:H2'	36:1:1783:U:O4'	2.21	0.41
36:1:3182:G:H4'	52:M6:161:LYS:HG2	2.01	0.41
36:1:3286:G:H5'	36:1:3287:U:OP2	2.20	0.41
38:4:143:U:P	51:M5:38:ARG:HH22	2.43	0.41
39:L2:183:GLY:HA2	39:L2:186:PHE:HB3	2.01	0.41
39:L2:245:LEU:HD12	39:L2:246:LEU:N	2.35	0.41
41:L4:200:THR:O	41:L4:201:GLN:HB3	2.20	0.41
42:L5:95:TRP:CH2	42:L5:161:GLY:HA2	2.55	0.41
45:L8:204:ARG:HB3	45:L8:206:GLU:OE1	2.21	0.41
46:L9:118:LEU:HD23	46:L9:118:LEU:HA	1.86	0.41
50:M4:21:VAL:HG23	50:M4:65:LEU:HA	2.02	0.41
62:N6:51:ARG:HG3	62:N6:52:ARG:N	2.35	0.41
62:N6:125:LYS:H	62:N6:125:LYS:HG2	1.53	0.41
63:N7:51:LEU:HB2	63:N7:65:ARG:HD2	2.02	0.41
64:N8:92:LYS:H	64:N8:92:LYS:HG2	1.43	0.41
69:O3:90:PRO:O	69:O3:91:ALA:HB3	2.20	0.41
1:6:129:U:N3	1:6:177:U:O4	2.53	0.41
1:6:272:U:H6	1:6:272:U:H2'	1.73	0.41
1:6:454:U:O2	6:s4:63:ALA:HA	2.20	0.41
1:6:626:U:H2'	1:6:627:C:H6	1.85	0.41
1:6:647:G:N2	1:6:687:G:N2	2.68	0.41
1:6:909:U:H2'	1:6:910:C:C6	2.56	0.41
1:6:930:A:H2'	3:s1:114:VAL:HG11	2.02	0.41
1:6:1459:C:H5'	20:c8:131:LEU:HD22	2.03	0.41
1:6:1679:G:O6	86:6:2033:OHX:N6	2.53	0.41
2:s0:88:LYS:O	2:s0:92:HIS:ND1	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:58:SER:O	3:s1:62:LYS:HD3	2.20	0.41
5:s3:195:SER:HB2	5:s3:200:LYS:HG2	2.03	0.41
7:s5:30:PRO:O	7:s5:34:GLN:HG3	2.20	0.41
13:c1:14:GLN:HB3	13:c1:54:ILE:HG13	2.02	0.41
16:c4:81:VAL:HG22	16:c4:115:ILE:HG23	2.02	0.41
18:c6:42:GLU:O	18:c6:44:LEU:N	2.53	0.41
26:d4:94:TYR:HB2	26:d4:96:LEU:HG	2.03	0.41
26:d4:131:ARG:HA	26:d4:131:ARG:HD2	1.75	0.41
36:5:263:C:H2'	36:5:264:G:O4'	2.20	0.41
36:5:364:G:O3'	41:l4:84:ARG:HG2	2.21	0.41
36:5:696:C:HO2'	36:5:697:A:H8	1.64	0.41
36:5:929:A:O2'	73:o7:49:TRP:O	2.39	0.41
36:5:1123:U:H2'	36:5:1124:U:O4'	2.20	0.41
36:5:1574:C:O2'	36:5:1575:A:OP1	2.36	0.41
36:5:2611:U:O2'	36:5:2803:A:N1	2.53	0.41
36:5:2777:G:C8	36:5:2777:G:H5"	2.55	0.41
39:l2:57:PRO:HD2	39:l2:170:ALA:HB3	2.02	0.41
43:l6:76:LEU:HD12	43:l6:138:GLN:HA	2.02	0.41
46:l9:122:LYS:HG2	46:l9:123:ILE:N	2.35	0.41
54:m8:71:LEU:HD23	54:m8:71:LEU:HA	1.84	0.41
61:n5:126:LEU:HD11	61:n5:135:ILE:HG21	2.03	0.41
69:o3:30:ILE:HG21	69:o3:100:ILE:HD11	2.01	0.41
72:o6:64:SER:HB3	72:o6:68:ARG:HB3	2.02	0.41
1:2:119:A:H2'	1:2:120:U:O4'	2.20	0.41
1:2:407:A:O2'	1:2:1671:A:N3	2.41	0.41
1:2:1368:G:C6	1:2:1369:U:C4	3.08	0.41
6:S4:191:ARG:HD3	6:S4:245:LYS:HD3	2.03	0.41
7:S5:43:PHE:HD1	7:S5:43:PHE:HA	1.74	0.41
23:D1:12:TYR:O	23:D1:12:TYR:CG	2.74	0.41
34:SR:287:PRO:HB3	34:SR:306:THR:OG1	2.20	0.41
36:1:192:C:H2'	36:1:193:C:C6	2.55	0.41
36:1:352:A:H61	36:1:365:A:H5"	1.85	0.41
36:1:355:A:H2'	36:1:356:C:O4'	2.20	0.41
36:1:409:A:H2	36:1:1441:G:N3	2.18	0.41
36:1:1100:U:H2'	36:1:1101:G:O4'	2.20	0.41
36:1:1430:U:H2'	64:N8:9:ARG:NH2	2.35	0.41
36:1:1632:A:H2'	36:1:1633:C:H6	1.84	0.41
36:1:1839:A:N6	36:1:1843:C:C2	2.89	0.41
36:1:2244:A:H5"	39:L2:243:THR:OG1	2.19	0.41
36:1:2561:A:O2'	36:1:2562:A:H5"	2.20	0.41
36:1:2614:G:OP1	86:1:3696:OHX:N6	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3191:G:C4	36:1:3202:G:N2	2.88	0.41
36:1:3205:G:OP2	36:1:3206:C:N4	2.51	0.41
39:L2:142:ASP:C	39:L2:143:GLU:HG3	2.44	0.41
40:L3:283:TYR:CE1	40:L3:354:VAL:HG11	2.55	0.41
41:L4:325:LEU:HA	41:L4:325:LEU:HD23	1.90	0.41
43:L6:142:ASP:O	43:L6:146:ILE:HG13	2.21	0.41
44:L7:151:ARG:HD2	44:L7:244:ASN:ND2	2.35	0.41
46:L9:152:GLU:H	46:L9:152:GLU:HG2	1.42	0.41
49:M3:67:ARG:H	49:M3:67:ARG:HG3	1.42	0.41
50:M4:21:VAL:HG13	50:M4:63:VAL:CG2	2.51	0.41
50:M4:133:LYS:HB3	50:M4:133:LYS:HE3	1.76	0.41
53:M7:126:ARG:HD2	53:M7:140:GLU:OE2	2.20	0.41
57:N1:92:ARG:HB3	57:N1:94:GLU:OE1	2.21	0.41
63:N7:4:PHE:CE1	63:N7:82:PRO:HG3	2.55	0.41
64:N8:78:LEU:O	64:N8:81:LEU:HG	2.21	0.41
1:6:320:U:OP2	1:6:321:C:H3'	2.19	0.41
1:6:1639:C:H2'	1:6:1640:C:O4'	2.20	0.41
1:6:1738:U:H2'	1:6:1739:C:C6	2.56	0.41
86:6:1997:OHX:N4	26:d4:135:ASP:HA	2.35	0.41
2:s0:195:TRP:CE2	2:s0:197:ILE:HB	2.56	0.41
3:s1:126:THR:HG22	3:s1:136:ARG:NE	2.36	0.41
4:s2:37:PRO:HA	4:s2:65:GLU:OE1	2.21	0.41
5:s3:40:ARG:HD2	5:s3:49:ILE:HD11	2.02	0.41
6:s4:211:LYS:HE3	6:s4:211:LYS:HB2	1.92	0.41
9:s7:164:TYR:OH	9:s7:165:LYS:HE2	2.20	0.41
10:s8:114:GLU:HG2	10:s8:119:GLN:O	2.21	0.41
10:s8:136:SER:HB2	10:s8:139:ALA:CB	2.51	0.41
11:s9:124:HIS:CE1	11:s9:128:LEU:HD11	2.55	0.41
20:c8:142:GLY:O	20:c8:145:ARG:HD2	2.20	0.41
22:d0:80:GLU:HG2	31:d9:54:LYS:NZ	2.36	0.41
24:d2:47:ILE:HG22	24:d2:65:LEU:HD12	2.02	0.41
30:d8:14:LYS:HG3	30:d8:15:VAL:N	2.34	0.41
32:e0:53:LYS:CG	32:e0:55:ARG:HD3	2.50	0.41
34:sR:69:GLN:N	34:sR:83:ALA:O	2.44	0.41
36:5:600:G:N2	36:5:603:A:OP2	2.53	0.41
36:5:611:A:O2'	36:5:612:U:H5"	2.20	0.41
36:5:618:C:H2'	36:5:619:A:C8	2.54	0.41
36:5:837:A:OP1	79:q3:5:THR:HG23	2.20	0.41
36:5:1353:U:H2'	43:l6:9:TRP:CZ3	2.56	0.41
36:5:1366:A:C2	36:5:1367:G:C4	3.07	0.41
36:5:1611:G:H2'	36:5:1612:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1913:A:N3	36:5:2120:A:H2'	2.35	0.41
36:5:2595:A:OP1	86:5:3546:OHX:N4	2.53	0.41
36:5:3112:G:O2'	46:l9:70:THR:HB	2.20	0.41
44:l7:208:SER:O	44:l7:243:MET:HB3	2.21	0.41
50:m4:25:LYS:C	50:m4:29:ALA:HB2	2.46	0.41
51:m5:180:PHE:CD2	51:m5:180:PHE:N	2.88	0.41
52:m6:121:PRO:O	52:m6:124:LEU:HB2	2.20	0.41
54:m8:34:THR:O	54:m8:38:ARG:HB2	2.20	0.41
61:n5:67:ILE:HB	61:n5:83:VAL:HG12	2.02	0.41
62:n6:57:LEU:HD22	62:n6:58:VAL:N	2.35	0.41
71:o5:47:VAL:O	71:o5:51:ILE:HG13	2.20	0.41
85:p1:8:UNK:O	85:p1:11:UNK:N	2.53	0.41
1:2:97:C:H2'	1:2:98:U:C6	2.56	0.41
1:2:582:U:H6	1:2:582:U:H5"	1.85	0.41
1:2:751:G:H2'	1:2:752:A:H8	1.85	0.41
1:2:792:U:H2'	1:2:793:A:H5'	2.03	0.41
1:2:1036:A:H2'	1:2:1037:C:O4'	2.21	0.41
1:2:1291:G:C2	1:2:1325:A:C2	3.08	0.41
1:2:1584:G:H22	1:2:1611:A:P	2.43	0.41
1:2:1690:G:H1'	1:2:1712:A:N6	2.36	0.41
3:S1:61:LEU:CD2	3:S1:62:LYS:H	2.32	0.41
3:S1:213:ARG:O	3:S1:214:LYS:HE3	2.20	0.41
3:S1:214:LYS:HB2	3:S1:214:LYS:HE3	1.81	0.41
5:S3:172:THR:HA	5:S3:184:ILE:O	2.21	0.41
5:S3:222:VAL:HG23	5:S3:223:LYS:O	2.21	0.41
9:S7:98:ILE:HG13	9:S7:121:VAL:HG21	2.03	0.41
9:S7:173:TYR:CE1	9:S7:179:LYS:HB2	2.55	0.41
12:C0:12:HIS:NE2	12:C0:49:LEU:HD21	2.36	0.41
14:C2:32:LEU:O	14:C2:36:LEU:N	2.51	0.41
16:C4:81:VAL:HG13	16:C4:115:ILE:HG21	2.01	0.41
21:C9:42:GLY:HA2	21:C9:84:LYS:HG3	2.02	0.41
29:D7:51:GLN:O	29:D7:66:PRO:HB3	2.21	0.41
30:D8:22:ARG:HA	30:D8:22:ARG:HD3	1.85	0.41
34:SR:194:GLY:HA3	34:SR:223:TRP:HH2	1.85	0.41
36:1:86:G:O2'	49:M3:11:LYS:HD3	2.20	0.41
36:1:249:U:O2	36:1:250:U:N3	2.54	0.41
36:1:402:A:C6	53:M7:21:TYR:CE2	3.09	0.41
36:1:711:A:N7	36:1:712:G:H1'	2.34	0.41
36:1:1366:A:C2	36:1:1367:G:C4	3.08	0.41
36:1:1638:A:N3	36:1:1709:C:H1'	2.35	0.41
36:1:2426:U:H2'	36:1:2427:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:79:A:H4'	71:O5:43:LYS:HE3	2.01	0.41
40:L3:211:GLN:NE2	40:L3:284:ARG:HA	2.36	0.41
40:L3:281:LYS:NZ	40:L3:350:ALA:HA	2.34	0.41
41:L4:280:ILE:HD11	54:M8:26:LEU:N	2.36	0.41
42:L5:52:VAL:HA	42:L5:147:ASP:HB3	2.03	0.41
42:L5:279:LYS:HG2	42:L5:282:ARG:NH1	2.35	0.41
45:L8:46:LEU:O	45:L8:49:TYR:N	2.37	0.41
48:M1:145:LYS:HE2	48:M1:145:LYS:HB2	1.64	0.41
71:O5:18:ALA:O	71:O5:22:VAL:HG23	2.20	0.41
1:6:102:U:O4	1:6:360:A:H2'	2.20	0.41
1:6:586:G:H2'	1:6:587:C:O4'	2.21	0.41
1:6:1213:G:H1	1:6:1450:U:H3	1.69	0.41
1:6:1525:A:N3	1:6:1589:C:O2'	2.46	0.41
1:6:1762:A:O2'	1:6:1783:C:H5'	2.21	0.41
2:s0:52:LYS:HD3	23:d1:82:VAL:HA	2.02	0.41
8:s6:27:PHE:HB3	8:s6:102:VAL:HG11	2.02	0.41
12:c0:16:PHE:HB2	12:c0:76:LEU:HG	2.03	0.41
14:c2:32:LEU:O	14:c2:36:LEU:HD12	2.20	0.41
14:c2:132:GLU:O	14:c2:136:ILE:HD13	2.21	0.41
17:c5:86:VAL:HB	17:c5:87:PRO:HD2	2.03	0.41
24:d2:86:ILE:HB	24:d2:117:ARG:HH22	1.85	0.41
36:5:157:A:H2'	36:5:158:G:O4'	2.21	0.41
36:5:1061:A:O3'	57:n1:102:ARG:NH2	2.53	0.41
36:5:1141:C:O2'	36:5:1153:A:N3	2.48	0.41
36:5:1170:A:H8	36:5:1170:A:O5'	2.03	0.41
36:5:1340:G:H2'	36:5:1341:U:C6	2.54	0.41
36:5:1932:A:H5'	36:5:1933:A:OP2	2.20	0.41
36:5:2561:A:O2'	36:5:2562:A:H5"	2.20	0.41
36:5:2731:U:OP2	86:5:3706:OHX:N1	2.54	0.41
36:5:3046:A:H2'	36:5:3047:U:O4'	2.21	0.41
36:5:3280:U:O2'	36:5:3281:U:H5"	2.21	0.41
40:l3:37:ARG:HA	40:l3:186:GLY:HA2	2.03	0.41
40:l3:81:THR:HG21	40:l3:322:ILE:HD13	2.03	0.41
44:l7:184:LEU:O	44:l7:188:ILE:HG12	2.20	0.41
53:m7:34:GLN:HA	53:m7:37:ASN:HB2	2.02	0.41
57:n1:17:ARG:HB2	57:n1:22:HIS:CD2	2.56	0.41
61:n5:109:LYS:HB2	61:n5:109:LYS:NZ	2.34	0.41
62:n6:87:LYS:HB2	62:n6:97:ILE:CD1	2.48	0.41
63:n7:54:THR:HG22	63:n7:57:HIS:CE1	2.55	0.41
63:n7:129:TRP:C	63:n7:131:PHE:N	2.77	0.41
68:o2:15:LYS:HB3	68:o2:15:LYS:HE3	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:o5:27:GLU:O	71:o5:31:LEU:HD13	2.21	0.41
75:o9:26:TRP:HA	75:o9:29:LEU:HD22	2.02	0.41
84:p0:19:LEU:HD22	84:p0:73:PHE:CE1	2.55	0.41
1:2:25:C:OP2	1:2:25:C:H4'	2.20	0.41
1:2:292:U:H2'	1:2:293:U:C6	2.56	0.41
1:2:1207:C:H42	1:2:1456:C:H5	1.67	0.41
1:2:1370:U:H4'	1:2:1371:A:C5'	2.51	0.41
1:2:1489:U:OP2	5:S3:9:ARG:NH2	2.52	0.41
2:S0:188:LEU:HB3	2:S0:189:VAL:H	1.75	0.41
3:S1:127:VAL:HG13	3:S1:176:VAL:HG11	2.02	0.41
6:S4:136:VAL:HG11	6:S4:148:ARG:NH2	2.35	0.41
7:S5:120:ILE:HD11	27:D5:98:GLN:HE22	1.85	0.41
10:S8:76:THR:HG22	10:S8:108:PRO:CG	2.49	0.41
11:S9:61:THR:HG22	24:D2:97:ARG:NH2	2.35	0.41
13:C1:36:LYS:NZ	13:C1:59:PRO:O	2.51	0.41
20:C8:17:LEU:HD12	20:C8:18:LEU:HD23	2.03	0.41
28:D6:18:VAL:HG11	28:D6:33:ASP:CG	2.46	0.41
30:D8:13:ILE:HG13	30:D8:29:ARG:O	2.21	0.41
34:SR:52:GLN:NE2	34:SR:52:GLN:H	2.19	0.41
36:1:209:A:H4'	36:1:211:A:N7	2.36	0.41
36:1:564:G:H2'	36:1:565:U:C6	2.55	0.41
36:1:663:C:H2'	36:1:664:U:C6	2.56	0.41
36:1:714:G:O2'	36:1:753:C:O2'	2.34	0.41
36:1:776:U:C5	36:1:2719:U:O2	2.68	0.41
36:1:1396:C:H2'	36:1:1397:C:H6	1.85	0.41
36:1:2227:C:OP1	78:Q2:32:LYS:NZ	2.52	0.41
36:1:2897:A:H2'	36:1:2899:C:C5'	2.49	0.41
36:1:3259:U:H6	36:1:3259:U:H5'	1.86	0.41
38:4:75:G:C8	75:O9:30:ARG:HG2	2.55	0.41
40:L3:51:ALA:CB	40:L3:317:ILE:HD11	2.51	0.41
46:L9:147:SER:HB2	46:L9:187:ILE:HD11	2.02	0.41
66:O0:30:THR:HB	66:O0:91:SER:HB2	2.02	0.41
1:6:153:G:O2'	8:s6:108:VAL:HG11	2.21	0.41
1:6:365:G:C2	1:6:366:A:C8	3.08	0.41
1:6:461:G:OP1	11:s9:2:PRO:HD2	2.20	0.41
1:6:720:G:OP2	1:6:720:G:N2	2.52	0.41
1:6:1381:U:H1'	1:6:1516:A:N6	2.36	0.41
1:6:1590:G:H2'	1:6:1591:C:C6	2.55	0.41
1:6:1793:G:O2'	28:d6:5:ARG:NH2	2.50	0.41
12:c0:28:ASN:OD1	12:c0:28:ASN:N	2.52	0.41
13:c1:57:LYS:HA	13:c1:64:VAL:HG13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:d0:15:GLN:HB2	22:d0:16:GLN:H	1.78	0.41
34:sR:32:LEU:HD11	34:sR:44:SER:HB2	2.03	0.41
36:5:215:G:OP1	62:n6:12:ARG:HG2	2.21	0.41
36:5:244:G:H8	36:5:244:G:OP2	2.04	0.41
36:5:942:U:C4	64:n8:16:SER:HA	2.54	0.41
36:5:1389:G:N2	36:5:1390:A:N1	2.68	0.41
36:5:1796:G:O6	86:5:3711:OHX:N5	2.54	0.41
36:5:1867:A:H2'	36:5:1868:G:C8	2.56	0.41
36:5:2401:A:H4'	36:5:2402:A:OP2	2.19	0.41
36:5:2402:A:H5"	41:l4:67:THR:OG1	2.19	0.41
40:l3:56:ILE:HD12	40:l3:56:ILE:HA	1.89	0.41
40:l3:346:THR:O	40:l3:348:ARG:N	2.54	0.41
41:l4:99:MET:HE3	41:l4:103:THR:N	2.33	0.41
42:l5:273:ARG:O	42:l5:273:ARG:HG2	2.17	0.41
43:l6:131:LYS:HD3	43:l6:131:LYS:HA	1.64	0.41
44:l7:47:ARG:O	44:l7:50:ALA:N	2.54	0.41
47:m0:89:VAL:HG22	47:m0:136:PHE:CE1	2.56	0.41
47:m0:145:LYS:O	47:m0:149:VAL:HG23	2.21	0.41
49:m3:9:ILE:HD13	64:n8:52:TYR:CE1	2.55	0.41
52:m6:106:GLU:H	52:m6:106:GLU:HG2	1.64	0.41
53:m7:25:SER:HB3	53:m7:28:ASN:HB2	2.03	0.41
56:n0:5:LYS:HB2	56:n0:7:TYR:CE2	2.56	0.41
56:n0:101:ALA:O	56:n0:105:THR:HG23	2.20	0.41
59:n3:25:CYS:O	86:n3:201:OHX:N3	2.54	0.41
59:n3:93:LEU:HA	83:n4:20:LEU:O	2.21	0.41
1:2:42:G:H4'	1:2:43:A:O5'	2.21	0.41
1:2:116:U:O2	1:2:333:A:H2	2.03	0.41
1:2:119:A:H1'	1:2:397:A:C4	2.56	0.41
1:2:169:A:OP1	8:S6:137:ARG:NH2	2.54	0.41
1:2:196:G:O2'	1:2:197:A:P	2.78	0.41
1:2:386:G:C6	1:2:387:A:N6	2.89	0.41
1:2:542:A:H61	32:E0:28:LYS:NZ	2.19	0.41
1:2:613:G:OP2	1:2:1099:U:O2'	2.35	0.41
1:2:1081:A:H4'	1:2:1082:C:O5'	2.20	0.41
1:2:1133:A:N3	1:2:1650:U:O2'	2.47	0.41
1:2:1133:A:OP1	25:D3:31:LYS:HE2	2.21	0.41
1:2:1483:A:C6	1:2:1484:G:C6	3.08	0.41
1:2:1508:U:H2'	1:2:1509:C:C6	2.56	0.41
1:2:1561:U:H2'	1:2:1562:G:H8	1.85	0.41
3:S1:119:THR:OG1	3:S1:155:TYR:HD1	2.04	0.41
6:S4:44:LEU:HD13	6:S4:65:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:182:TYR:HE2	6:S4:190:GLY:HA2	1.86	0.41
7:S5:44:ASN:O	7:S5:45:LYS:HG2	2.21	0.41
7:S5:143:ARG:NH1	7:S5:218:GLU:OE1	2.53	0.41
14:C2:23:THR:CB	14:C2:26:ASP:HB2	2.51	0.41
20:C8:69:ILE:HG22	20:C8:73:MET:HE2	2.03	0.41
33:E1:89:LYS:HB3	33:E1:90:LYS:H	1.77	0.41
34:SR:26:SER:OG	34:SR:75:ALA:O	2.39	0.41
36:1:185:C:H2'	36:1:186:U:C6	2.56	0.41
36:1:398:A:H1'	36:1:1416:C:OP1	2.21	0.41
36:1:965:A:H1'	64:N8:40:HIS:O	2.21	0.41
36:1:979:U:H1'	36:1:980:A:N9	2.35	0.41
36:1:1194:G:H2'	36:1:1195:A:C8	2.56	0.41
36:1:1255:C:H2'	36:1:1256:G:C8	2.55	0.41
36:1:1362:G:O2'	44:L7:159:GLN:HA	2.21	0.41
36:1:1901:A:O2'	59:N3:49:LEU:HD21	2.20	0.41
36:1:2101:C:O2'	36:1:2102:U:H5"	2.21	0.41
36:1:2228:A:H2'	36:1:2229:A:C8	2.56	0.41
38:4:45:C:H2'	38:4:46:G:O4'	2.21	0.41
39:L2:145:LYS:O	39:L2:160:SER:OG	2.38	0.41
40:L3:46:PHE:CE2	40:L3:205:VAL:HG22	2.56	0.41
41:L4:338:LYS:O	41:L4:339:LEU:HB2	2.21	0.41
43:L6:149:ILE:HG12	43:L6:155:LEU:HD13	2.01	0.41
45:L8:200:LEU:HA	45:L8:200:LEU:HD23	1.74	0.41
48:M1:92:ARG:HG3	48:M1:95:ASN:HD21	1.86	0.41
48:M1:165:GLN:O	48:M1:166:LYS:C	2.63	0.41
49:M3:124:ILE:HG13	49:M3:126:PHE:CE1	2.56	0.41
53:M7:108:ASP:OD2	53:M7:110:THR:HG23	2.21	0.41
55:M9:101:VAL:HG13	55:M9:104:ARG:HH12	1.85	0.41
55:M9:106:LEU:HB3	55:M9:120:TYR:CE1	2.56	0.41
61:N5:80:ASN:ND2	61:N5:132:ALA:H	2.19	0.41
62:N6:74:TYR:CE1	62:N6:77:LYS:HG3	2.56	0.41
71:O5:7:TYR:CD1	71:O5:8:GLU:HG3	2.56	0.41
1:6:525:A:C6	1:6:526:A:C6	3.08	0.41
1:6:973:A:H5'	36:5:848:A:H2	1.86	0.41
1:6:1030:A:H4'	1:6:1031:U:OP2	2.21	0.41
1:6:1379:C:H5'	18:c6:10:PHE:CE2	2.56	0.41
1:6:1592:A:C2	1:6:1605:G:C2	3.09	0.41
14:c2:86:VAL:HG13	14:c2:86:VAL:O	2.20	0.41
15:c3:119:GLU:HG2	15:c3:141:TYR:CE2	2.56	0.41
21:c9:141:GLU:C	21:c9:143:ASP:N	2.79	0.41
23:d1:74:GLN:HE21	23:d1:74:GLN:HB3	1.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d2:5:SER:C	24:d2:7:LEU:H	2.28	0.41
27:d5:43:ASP:CG	27:d5:46:LYS:HZ1	2.29	0.41
29:d7:30:SER:HB2	29:d7:48:SER:OG	2.20	0.41
34:sR:255:ALA:HA	34:sR:260:ILE:HA	2.02	0.41
36:5:20:A:C6	36:5:21:G:C6	3.09	0.41
36:5:513:G:C5	36:5:579:G:C6	3.08	0.41
36:5:736:A:C5	36:5:737:G:H1'	2.56	0.41
36:5:771:A:H2'	36:5:772:U:O4'	2.20	0.41
36:5:1108:U:H2'	36:5:1109:U:C6	2.56	0.41
36:5:1655:G:H5'	36:5:1656:A:H2'	2.01	0.41
36:5:2403:G:N2	36:5:2404:A:H62	2.19	0.41
36:5:2947:G:N2	36:5:2948:C:C2	2.89	0.41
36:5:3243:A:C8	52:m6:156:LEU:HD22	2.56	0.41
39:l2:250:GLN:HG2	39:l2:251:LYS:H	1.86	0.41
40:l3:361:THR:HG22	40:l3:371:GLN:HB3	2.03	0.41
44:l7:33:ARG:NH2	44:l7:34:LYS:HE2	2.36	0.41
44:l7:214:TRP:CE2	44:l7:219:LYS:HE3	2.56	0.41
81:l8:134:TYR:CD2	81:l8:134:TYR:N	2.89	0.41
46:l9:188:THR:CG2	46:l9:189:GLU:HG2	2.51	0.41
52:m6:65:ASN:O	52:m6:68:ARG:HG2	2.21	0.41
59:n3:13:ILE:CD1	59:n3:53:SER:HB2	2.51	0.41
61:n5:136:ALA:O	61:n5:139:ILE:HB	2.20	0.41
63:n7:50:PRO:HD3	63:n7:68:ILE:HG12	2.02	0.41
64:n8:7:LYS:HD3	64:n8:7:LYS:HA	1.70	0.41
71:o5:13:SER:OG	71:o5:16:GLN:HG3	2.20	0.41
78:q2:37:ALA:O	78:q2:41:ARG:HG3	2.21	0.41
78:q2:50:PHE:O	86:q2:502:OHX:N1	2.54	0.41
78:q2:88:CYS:SG	78:q2:91:PHE:HB2	2.60	0.41
1:2:61:A:C8	1:2:269:G:O2'	2.72	0.41
1:2:75:U:H3'	1:2:75:U:O2	2.20	0.41
1:2:522:U:OP1	26:D4:37:LYS:HB2	2.20	0.41
1:2:720:G:H1'	1:2:721:U:C5'	2.51	0.41
1:2:755:A:O2'	1:2:756:A:OP1	2.35	0.41
1:2:904:G:H2'	1:2:905:A:H8	1.86	0.41
1:2:1078:C:H2'	1:2:1079:U:C6	2.55	0.41
1:2:1138:A:C2	1:2:1139:A:C4	3.09	0.41
1:2:1158:C:H6	1:2:1158:C:H2'	1.72	0.41
1:2:1200:G:H4'	1:2:1201:G:H5"	2.03	0.41
1:2:1334:U:H2'	1:2:1335:U:H6	1.86	0.41
1:2:1619:C:H2'	1:2:1620:C:H6	1.85	0.41
1:2:1636:C:C2	1:2:1638:G:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:183:GLN:HG2	3:S1:187:LYS:HE3	2.01	0.41
4:S2:144:TRP:CE2	4:S2:173:PRO:HG3	2.56	0.41
4:S2:168:ARG:O	4:S2:198:THR:HA	2.21	0.41
8:S6:57:ASP:HB3	8:S6:106:LEU:HD23	2.03	0.41
9:S7:98:ILE:O	9:S7:98:ILE:HG22	2.21	0.41
9:S7:131:PHE:HD2	9:S7:131:PHE:HA	1.76	0.41
9:S7:170:GLN:HA	9:S7:181:ILE:HG22	2.03	0.41
10:S8:8:ARG:CD	10:S8:21:PHE:H	2.28	0.41
10:S8:103:GLN:HB3	10:S8:164:ARG:HG2	2.03	0.41
18:C6:46:PHE:HA	18:C6:49:TYR:HB2	2.03	0.41
20:C8:30:TYR:C	20:C8:33:THR:HG1	2.27	0.41
21:C9:7:ARG:HG2	21:C9:67:MET:HE2	2.01	0.41
21:C9:22:LEU:HD12	21:C9:22:LEU:HA	1.91	0.41
22:D0:35:GLU:HA	22:D0:38:SER:HB3	2.03	0.41
23:D1:5:LYS:O	23:D1:7:GLN:N	2.54	0.41
24:D2:41:MET:HE3	24:D2:47:ILE:HG12	2.03	0.41
28:D6:79:ILE:HA	28:D6:84:VAL:CG1	2.50	0.41
30:D8:25:VAL:HG11	30:D8:66:LEU:HD12	2.02	0.41
32:E0:38:LEU:O	32:E0:42:ARG:HB2	2.20	0.41
33:E1:135:HIS:HB2	33:E1:138:ARG:CB	2.50	0.41
34:SR:122:ILE:HB	34:SR:134:TRP:HB2	2.03	0.41
35:SM:62:ARG:HD3	35:SM:62:ARG:HA	1.69	0.41
35:SM:70:ASN:O	35:SM:74:LYS:HD3	2.21	0.41
35:SM:140:ASP:CG	35:SM:141:ALA:H	2.29	0.41
36:1:22:G:H1'	38:4:104:A:N3	2.36	0.41
36:1:229:G:H5"	62:N6:4:GLN:H	1.86	0.41
36:1:398:A:C4	53:M7:3:ARG:NH2	2.89	0.41
36:1:437:G:H2'	36:1:438:A:O4'	2.20	0.41
36:1:566:G:O2'	36:1:567:G:H5'	2.21	0.41
36:1:827:A:H2'	36:1:828:A:H8	1.86	0.41
36:1:986:U:H2'	36:1:987:U:H6	1.85	0.41
36:1:1071:U:O2'	36:1:1072:G:OP2	2.28	0.41
36:1:1138:U:H2'	36:1:1139:G:O4'	2.21	0.41
36:1:1317:A:C2	36:1:1319:G:C6	3.09	0.41
36:1:1460:A:H2'	36:1:1461:A:C8	2.56	0.41
36:1:1829:G:O6	86:1:3551:OHX:N6	2.54	0.41
36:1:2107:A:C2	36:1:3344:A:H8	2.39	0.41
36:1:2402:A:OP1	41:L4:70:ALA:N	2.40	0.41
36:1:2503:G:H1'	36:1:2504:U:H5	1.86	0.41
36:1:2544:U:H2'	36:1:2545:C:C6	2.56	0.41
36:1:2767:U:O4	86:1:3575:OHX:N2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2960:C:H2'	36:1:2961:G:H8	1.85	0.41
36:1:3045:G:H2'	36:1:3046:A:O4'	2.21	0.41
37:3:1:G:N2	42:L5:269:SER:OG	2.49	0.41
37:3:28:C:H1'	37:3:55:A:H61	1.86	0.41
38:4:38:U:O2	71:O5:83:LYS:HA	2.21	0.41
38:4:91:C:H2'	38:4:92:A:C8	2.55	0.41
40:L3:139:GLN:H	40:L3:139:GLN:HG3	1.46	0.41
41:L4:25:VAL:HG22	41:L4:262:TRP:HB2	2.03	0.41
41:L4:89:ALA:C	41:L4:91:GLY:H	2.28	0.41
41:L4:261:VAL:HG22	41:L4:262:TRP:CD1	2.55	0.41
41:L4:353:ALA:O	41:L4:357:GLU:HG3	2.21	0.41
42:L5:107:ARG:HH22	42:L5:120:LYS:HA	1.86	0.41
48:M1:19:LEU:HA	48:M1:126:ASP:O	2.21	0.41
48:M1:32:ARG:HD3	48:M1:119:SER:O	2.21	0.41
49:M3:64:LYS:HG3	64:N8:69:TRP:CD1	2.56	0.41
49:M3:171:ARG:HA	49:M3:171:ARG:HD3	1.79	0.41
49:M3:174:ARG:HB2	72:O6:9:ILE:HD12	2.01	0.41
51:M5:119:TYR:CE2	51:M5:131:GLU:HB2	2.56	0.41
52:M6:27:LEU:HB2	52:M6:98:ALA:HB1	2.03	0.41
55:M9:21:LYS:O	55:M9:53:LYS:HB2	2.21	0.41
63:N7:9:LYS:HA	63:N7:9:LYS:HD3	1.93	0.41
64:N8:78:LEU:HD23	64:N8:78:LEU:HA	1.79	0.41
66:O0:34:LEU:HD23	66:O0:59:TYR:CB	2.51	0.41
68:O2:67:SER:HB2	68:O2:68:PRO:CD	2.51	0.41
74:O8:78:LEU:HD13	74:O8:78:LEU:HA	1.78	0.41
1:6:241:U:H2'	1:6:242:U:H6	1.86	0.41
1:6:334:G:H2'	1:6:335:U:H6	1.86	0.41
1:6:470:A:H5"	1:6:470:A:C8	2.56	0.41
1:6:885:G:H2'	1:6:886:U:C6	2.56	0.41
1:6:973:A:H2'	1:6:974:A:C8	2.56	0.41
1:6:1273:G:H4'	1:6:1274:C:H5"	2.02	0.41
1:6:1535:U:H1'	1:6:1536:G:C2	2.56	0.41
1:6:1671:A:H2'	1:6:1672:G:O4'	2.21	0.41
3:s1:229:MET:O	3:s1:232:HIS:N	2.53	0.41
5:s3:143:ARG:HE	5:s3:143:ARG:HB3	1.44	0.41
6:s4:148:ARG:H	6:s4:148:ARG:HG2	1.52	0.41
7:s5:61:TYR:HE2	7:s5:164:PRO:HG2	1.86	0.41
8:s6:20:ASP:HB3	8:s6:23:ARG:CG	2.51	0.41
9:s7:74:GLN:HG2	9:s7:131:PHE:CD2	2.55	0.41
18:c6:25:GLY:HA3	18:c6:64:ASP:OD1	2.20	0.41
18:c6:129:PHE:CE1	22:d0:78:THR:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c8:28:ILE:HG13	20:c8:56:LYS:O	2.21	0.41
23:d1:71:ARG:HG3	23:d1:83:TRP:CZ2	2.56	0.41
33:e1:106:TYR:CE2	33:e1:116:LYS:HG2	2.56	0.41
33:e1:135:HIS:NE2	33:e1:140:TYR:HB3	2.35	0.41
34:sR:264:SER:O	34:sR:268:GLN:HA	2.21	0.41
36:5:72:C:N3	36:5:74:G:C4	2.89	0.41
36:5:183:G:H2'	36:5:184:U:O4'	2.20	0.41
36:5:727:G:H2'	36:5:728:G:O4'	2.20	0.41
36:5:848:A:H2'	36:5:849:C:O4'	2.21	0.41
36:5:933:A:N6	41:l4:98:ARG:HD3	2.35	0.41
36:5:1107:C:H2'	36:5:1108:U:H6	1.86	0.41
36:5:1561:G:O2'	36:5:1562:C:OP2	2.33	0.41
36:5:1644:C:OP1	36:5:1821:U:H2'	2.21	0.41
36:5:2227:C:H2'	36:5:2228:A:H5"	2.02	0.41
36:5:2585:G:C8	81:l8:48:ARG:HA	2.56	0.41
36:5:2745:G:O2'	36:5:2747:A:N7	2.48	0.41
36:5:2836:C:C5	36:5:2852:C:N4	2.81	0.41
36:5:2951:G:O3'	86:5:3590:OHX:N2	2.54	0.41
37:7:46:A:H2'	37:7:47:C:H6	1.85	0.41
37:7:48:U:O2	37:7:50:U:C4	2.74	0.41
39:l2:187:HIS:ND1	39:l2:190:ARG:NH1	2.69	0.41
40:l3:35:ASP:HA	40:l3:184:ASN:ND2	2.36	0.41
41:l4:22:LEU:HA	41:l4:23:PRO:HD3	1.88	0.41
41:l4:84:ARG:O	41:l4:87:GLN:HG3	2.21	0.41
41:l4:290:ILE:HG23	54:m8:35:PHE:CE2	2.56	0.41
42:l5:97:ALA:O	42:l5:101:THR:OG1	2.34	0.41
42:l5:122:VAL:CG1	42:l5:123:GLU:N	2.84	0.41
43:l6:50:LYS:NZ	43:l6:72:ASN:O	2.53	0.41
44:l7:35:ALA:HA	44:l7:38:LYS:HB2	2.02	0.41
44:l7:127:LEU:HA	44:l7:130:ILE:HG22	2.03	0.41
81:l8:26:LEU:HD13	63:n7:53:VAL:HG11	2.03	0.41
47:m0:43:VAL:HG21	47:m0:197:VAL:HG13	2.02	0.41
47:m0:193:ASP:H	47:m0:197:VAL:HA	1.86	0.41
47:m0:215:GLU:CD	47:m0:215:GLU:H	2.29	0.41
49:m3:53:LEU:HB2	49:m3:55:ARG:NH1	2.35	0.41
52:m6:16:VAL:HG23	52:m6:42:ASN:O	2.21	0.41
53:m7:22:LEU:HD12	53:m7:146:ILE:HG13	2.02	0.41
56:n0:117:ARG:H	56:n0:117:ARG:HG2	1.60	0.41
64:n8:28:HIS:ND1	64:n8:32:ARG:HG2	2.36	0.41
68:o2:19:ARG:HD2	68:o2:28:VAL:CG1	2.50	0.41
68:o2:32:TRP:CZ2	68:o2:53:PRO:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:o6:66:GLU:HB3	72:o6:70:ARG:HH21	1.86	0.41
75:o9:21:ARG:HD3	75:o9:22:PRO:O	2.21	0.41
75:o9:42:ARG:HG2	75:o9:43:ASN:N	2.36	0.41
76:q0:127:LEU:HD23	76:q0:127:LEU:HA	1.89	0.41
84:p0:16:ARG:HB2	84:p0:66:PHE:CZ	2.56	0.41
84:p0:53:MET:SD	84:p0:85:GLY:HA3	2.61	0.41
84:p0:105:VAL:HG23	84:p0:184:GLY:N	2.35	0.41
1:2:473:A:H4'	1:2:768:C:O2	2.21	0.41
1:2:1194:A:OP2	22:D0:75:GLY:N	2.49	0.41
1:2:1244:A:O2'	1:2:1245:G:OP1	2.34	0.41
1:2:1413:U:O2	86:2:1949:OHX:N3	2.54	0.41
2:S0:167:LYS:HG2	2:S0:168:HIS:CE1	2.56	0.41
6:S4:241:GLY:O	6:S4:244:ILE:HG12	2.21	0.41
15:C3:132:VAL:HG23	15:C3:134:VAL:CG1	2.51	0.41
16:C4:128:LYS:NZ	28:D6:27:SER:OG	2.54	0.41
18:C6:65:ILE:HD13	18:C6:65:ILE:HA	1.92	0.41
20:C8:36:LYS:HA	20:C8:36:LYS:HD3	1.90	0.41
34:SR:7:LEU:HD11	34:SR:251:TRP:HZ3	1.86	0.41
34:SR:184:ASN:N	34:SR:184:ASN:OD1	2.53	0.41
35:SM:102:THR:CG2	35:SM:105:LYS:HB2	2.51	0.41
36:1:671:U:H2'	36:1:672:A:C8	2.56	0.41
36:1:1016:C:O2'	36:1:1028:U:H5'	2.21	0.41
36:1:1528:G:N3	36:1:1588:A:H2	2.19	0.41
36:1:1908:A:H8	36:1:1908:A:O5'	2.03	0.41
36:1:2737:C:O5'	57:N1:68:THR:OG1	2.36	0.41
36:1:3017:A:C2	36:1:3038:U:C2	3.09	0.41
36:1:3279:A:C6	36:1:3280:U:C4	3.08	0.41
37:3:22:A:C6	37:3:23:A:C6	3.09	0.41
39:L2:171:GLY:O	79:Q3:68:ALA:HB2	2.20	0.41
42:L5:58:LYS:HD3	42:L5:58:LYS:H	1.86	0.41
53:M7:5:GLY:O	53:M7:7:THR:HG23	2.21	0.41
55:M9:78:TYR:HE2	55:M9:81:ARG:NH2	2.19	0.41
59:N3:83:LYS:HE2	59:N3:84:SER:N	2.35	0.41
62:N6:118:LEU:O	62:N6:122:LYS:HG3	2.21	0.41
63:N7:108:GLU:O	63:N7:112:LYS:HG3	2.21	0.41
68:O2:96:ILE:HG21	68:O2:105:ARG:HG2	2.03	0.41
75:O9:2:ALA:C	75:O9:4:GLN:H	2.29	0.41
78:Q2:23:HIS:HA	78:Q2:73:GLU:O	2.21	0.41
1:6:1025:A:H2'	1:6:1027:A:O5'	2.20	0.41
1:6:1315:U:OP1	1:6:1328:G:N2	2.48	0.41
1:6:1459:C:OP2	1:6:1459:C:H6	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1522:U:OP1	86:6:1934:OHX:N3	2.54	0.41
1:6:1584:G:N7	18:c6:14:LYS:HE2	2.36	0.41
1:6:1640:C:O5'	1:6:1640:C:H6	2.03	0.41
6:s4:160:VAL:HG11	6:s4:169:ILE:HG12	2.02	0.41
11:s9:126:ARG:O	11:s9:130:THR:HG23	2.21	0.41
12:c0:54:TYR:CE2	12:c0:75:TYR:HB2	2.56	0.41
14:c2:41:LEU:HD23	14:c2:41:LEU:HA	1.98	0.41
15:c3:96:VAL:O	15:c3:100:LYS:HG2	2.20	0.41
16:c4:30:VAL:O	16:c4:39:ILE:N	2.47	0.41
16:c4:89:THR:O	16:c4:128:LYS:HE2	2.21	0.41
17:c5:18:ARG:HG2	20:c8:92:ILE:HA	2.02	0.41
17:c5:119:PHE:HA	80:sM:57:ASN:ND2	2.35	0.41
23:d1:13:VAL:HA	23:d1:14:PRO:HD3	1.96	0.41
24:d2:126:LEU:HD23	24:d2:126:LEU:HA	1.75	0.41
25:d3:131:SER:O	25:d3:135:LEU:HG	2.22	0.41
28:d6:11:ASN:O	28:d6:33:ASP:HB2	2.21	0.41
31:d9:45:GLU:OE1	31:d9:46:LYS:NZ	2.54	0.41
33:e1:97:LYS:HA	33:e1:97:LYS:HD2	1.71	0.41
80:sM:39:PRO:HD3	48:m1:52:TYR:CZ	2.56	0.41
36:5:9:U:C4	36:5:10:C:C4	3.09	0.41
36:5:372:A:H2'	36:5:373:A:C8	2.56	0.41
36:5:1194:G:H2'	36:5:1195:A:C8	2.56	0.41
36:5:1438:U:H2'	36:5:1439:U:C6	2.56	0.41
36:5:1468:A:C6	36:5:1469:C:N4	2.89	0.41
36:5:1728:G:H5"	36:5:1730:G:O4'	2.21	0.41
36:5:1741:A:C6	36:5:1742:U:C2	3.08	0.41
36:5:1806:A:H2'	36:5:1807:G:O4'	2.21	0.41
36:5:2102:U:H2'	36:5:2103:U:C6	2.56	0.41
36:5:2384:A:OP1	86:m6:201:OHX:N3	2.54	0.41
36:5:2949:U:C5	36:5:2950:G:C6	3.09	0.41
36:5:3233:C:H2'	36:5:3234:A:C8	2.56	0.41
37:7:55:A:C5	48:m1:9:MET:HG2	2.56	0.41
40:l3:227:GLU:HG3	40:l3:270:ARG:NE	2.36	0.41
81:l8:143:ILE:HD11	81:l8:151:VAL:HG21	2.02	0.41
49:m3:62:THR:C	49:m3:64:LYS:N	2.77	0.41
49:m3:107:GLU:OE1	72:o6:18:THR:HG23	2.21	0.41
51:m5:194:GLN:HG2	51:m5:194:GLN:H	1.62	0.41
56:n0:25:PHE:HA	57:n1:149:GLN:O	2.21	0.41
57:n1:87:LYS:HE3	57:n1:87:LYS:HB3	1.83	0.41
63:n7:53:VAL:HA	63:n7:57:HIS:CD2	2.56	0.41
64:n8:46:ASP:OD1	64:n8:46:ASP:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:331:A:H4'	10:S8:31:ARG:O	2.22	0.40
1:2:339:C:H2'	1:2:340:U:H6	1.86	0.40
1:2:473:A:H5'	1:2:769:A:H1'	2.03	0.40
1:2:868:G:C2	1:2:869:A:C8	3.09	0.40
1:2:934:C:N3	1:2:1077:C:H4'	2.36	0.40
1:2:1116:A:P	77:Q1:17:ARG:HH21	2.44	0.40
1:2:1274:C:N4	35:SM:94:HIS:O	2.53	0.40
1:2:1374:C:H2'	1:2:1375:A:H8	1.85	0.40
2:S0:59:LEU:HA	2:S0:62:ARG:HB2	2.03	0.40
2:S0:170:ILE:H	2:S0:170:ILE:HD12	1.86	0.40
3:S1:117:TRP:HE1	3:S1:152:ARG:NE	2.19	0.40
3:S1:181:LEU:HA	3:S1:184:LEU:CB	2.49	0.40
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	2.03	0.40
6:S4:123:LEU:HA	6:S4:160:VAL:O	2.21	0.40
6:S4:125:LYS:NZ	6:S4:225:VAL:O	2.40	0.40
6:S4:253:ASP:O	6:S4:257:ALA:N	2.50	0.40
8:S6:176:GLN:HG3	8:S6:177:ARG:H	1.87	0.40
10:S8:41:LYS:HA	10:S8:59:ARG:O	2.20	0.40
13:C1:3:THR:OG1	13:C1:113:PRO:HG3	2.21	0.40
15:C3:55:ARG:HD2	29:D7:47:PHE:CD1	2.56	0.40
16:C4:19:ILE:HG23	16:C4:28:VAL:HG22	2.02	0.40
28:D6:58:VAL:HG12	28:D6:59:TYR:N	2.36	0.40
34:SR:7:LEU:HD11	34:SR:251:TRP:CZ3	2.57	0.40
34:SR:153:GLN:HB3	34:SR:202:LEU:HD22	2.03	0.40
36:1:96:G:H5'	49:M3:15:ARG:NH2	2.36	0.40
36:1:107:A:H1'	36:1:325:A:N3	2.36	0.40
36:1:612:U:H2'	36:1:613:G:C8	2.55	0.40
36:1:679:U:H2'	36:1:680:G:C8	2.56	0.40
36:1:748:U:H2'	36:1:749:C:H6	1.86	0.40
36:1:2218:G:H2'	36:1:2219:A:H8	1.86	0.40
36:1:2249:G:C8	36:1:2272:G:C4	3.08	0.40
36:1:2341:A:O3'	36:1:3090:U:H4'	2.21	0.40
36:1:2808:A:N7	36:1:2955:U:H4'	2.36	0.40
36:1:2984:C:H2'	36:1:2985:C:C6	2.57	0.40
36:1:3357:U:H2'	36:1:3358:U:C6	2.57	0.40
40:L3:146:ARG:HD2	40:L3:146:ARG:HA	1.81	0.40
42:L5:86:TYR:CE1	42:L5:247:ILE:HA	2.55	0.40
47:M0:80:SER:HB3	47:M0:147:VAL:HG11	2.03	0.40
47:M0:207:GLU:OE2	47:M0:211:ARG:NE	2.50	0.40
48:M1:15:GLU:N	48:M1:130:VAL:O	2.55	0.40
48:M1:57:PHE:CD1	48:M1:57:PHE:N	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:176:GLU:HG2	72:O6:11:LEU:HD22	2.02	0.40
51:M5:13:LYS:O	51:M5:19:LEU:HD22	2.22	0.40
68:O2:3:SER:HB3	68:O2:71:HIS:CD2	2.57	0.40
75:O9:44:TRP:CH2	75:O9:45:ARG:HD3	2.56	0.40
1:6:249:U:H3'	1:6:250:C:C5'	2.51	0.40
1:6:359:A:C2	25:d3:38:PHE:HB3	2.56	0.40
1:6:553:G:OP2	1:6:554:C:O2'	2.27	0.40
1:6:639:U:H5"	9:s7:101:LYS:HB2	2.02	0.40
1:6:1079:U:H2'	1:6:1080:U:H6	1.86	0.40
1:6:1254:U:OP1	33:e1:143:LYS:HD3	2.22	0.40
1:6:1451:C:H5"	31:d9:10:HIS:HB3	2.03	0.40
2:s0:110:TYR:CE2	4:s2:64:LYS:HB3	2.56	0.40
5:s3:42:THR:OG1	5:s3:45:LYS:O	2.39	0.40
6:s4:65:LEU:HD22	6:s4:77:ARG:O	2.21	0.40
10:s8:196:LEU:HD23	10:s8:196:LEU:HA	1.70	0.40
17:c5:77:ARG:HB3	17:c5:102:PHE:CE1	2.56	0.40
18:c6:12:LYS:HE2	18:c6:17:THR:HB	2.03	0.40
27:d5:95:HIS:HB3	27:d5:98:GLN:O	2.21	0.40
34:sR:176:LYS:O	34:sR:177:MET:HE2	2.20	0.40
36:5:67:A:N1	36:5:300:G:O2'	2.49	0.40
36:5:151:A:HO2'	36:5:152:U:P	2.44	0.40
36:5:409:A:H2	36:5:1441:G:N3	2.19	0.40
36:5:1084:A:C6	36:5:1085:A:C6	3.09	0.40
36:5:1169:A:OP1	86:5:3504:OHX:N2	2.54	0.40
36:5:1573:G:H2'	36:5:1574:C:O4'	2.21	0.40
36:5:2730:G:H4'	54:m8:184:PHE:CD1	2.57	0.40
36:5:2812:C:C2'	36:5:2813:A:O5'	2.70	0.40
36:5:3311:C:OP1	86:5:3715:OHX:N1	2.54	0.40
37:7:85:G:N7	86:7:204:OHX:N6	2.69	0.40
61:n5:113:LEU:C	61:n5:113:LEU:HD12	2.46	0.40
62:n6:36:SER:O	62:n6:40:ARG:N	2.44	0.40
63:n7:16:GLY:C	63:n7:18:TYR:H	2.29	0.40
72:o6:57:LEU:O	72:o6:61:ILE:HG13	2.21	0.40
74:o8:58:ASP:HB3	74:o8:61:LYS:CG	2.51	0.40
1:2:64:U:H2'	1:2:65:A:H5"	2.03	0.40
1:2:206:A:H1'	1:2:262:U:C2	2.55	0.40
1:2:1486:G:C6	1:2:1522:U:C5	3.09	0.40
1:2:1486:G:H1'	1:2:1592:A:O2'	2.21	0.40
3:S1:207:LEU:HB3	3:S1:208:GLN:H	1.58	0.40
5:S3:178:ARG:HE	5:S3:178:ARG:N	2.01	0.40
12:C0:52:LYS:H	12:C0:52:LYS:HG2	1.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C0:82:LEU:H	12:C0:82:LEU:HG	1.73	0.40
14:C2:29:LYS:HE2	14:C2:100:TRP:NE1	2.36	0.40
17:C5:105:VAL:HG12	17:C5:106:GLU:O	2.21	0.40
21:C9:93:HIS:O	21:C9:94:ILE:HD12	2.22	0.40
24:D2:93:LEU:HD21	24:D2:102:VAL:HG22	2.03	0.40
33:E1:100:LEU:C	33:E1:102:VAL:N	2.79	0.40
34:SR:74:THR:HG23	34:SR:79:TYR:HB2	2.02	0.40
36:1:94:G:H2'	36:1:95:A:C8	2.56	0.40
36:1:216:G:H4'	62:N6:19:TYR:CZ	2.56	0.40
36:1:1492:G:N7	75:O9:2:ALA:HB3	2.35	0.40
36:1:1711:C:H2'	36:1:1712:G:O4'	2.21	0.40
36:1:1863:G:N7	86:1:3686:OHX:N3	2.69	0.40
36:1:1949:G:H2'	36:1:1950:U:C6	2.56	0.40
36:1:2403:G:C8	36:1:2870:C:H4'	2.57	0.40
36:1:2442:G:N2	36:1:2443:A:N7	2.70	0.40
36:1:2563:G:H5"	45:L8:27:THR:CG2	2.51	0.40
36:1:2675:C:N4	48:M1:22:SER:HB2	2.36	0.40
38:4:140:G:H2'	38:4:141:C:O4'	2.20	0.40
39:L2:125:ALA:O	39:L2:128:ARG:HD2	2.20	0.40
40:L3:35:ASP:OD1	40:L3:184:ASN:O	2.39	0.40
40:L3:379:PHE:CD1	40:L3:379:PHE:C	3.00	0.40
44:L7:156:ILE:O	44:L7:159:GLN:HB2	2.21	0.40
44:L7:220:PHE:O	44:L7:229:PHE:HE2	2.05	0.40
47:M0:36:LEU:HD11	47:M0:69:ARG:HD2	2.03	0.40
53:M7:84:PRO:HB2	53:M7:87:SER:HB2	2.03	0.40
62:N6:45:ILE:HD13	62:N6:122:LYS:HD3	2.04	0.40
63:N7:47:GLU:OE1	63:N7:69:LYS:HD3	2.21	0.40
64:N8:28:HIS:CD2	64:N8:32:ARG:HG3	2.56	0.40
69:O3:47:LYS:HB3	69:O3:101:PHE:O	2.21	0.40
70:O4:86:LYS:HG3	70:O4:86:LYS:HZ2	1.72	0.40
1:6:330:G:H2'	1:6:331:A:H8	1.86	0.40
1:6:542:A:H1'	1:6:543:C:P	2.61	0.40
1:6:1230:A:H2'	1:6:1258:U:C5	2.55	0.40
1:6:1275:A:O2'	5:s3:141:LYS:HD3	2.21	0.40
1:6:1477:G:H2'	1:6:1478:G:C8	2.56	0.40
2:s0:59:LEU:O	2:s0:63:ILE:HG13	2.21	0.40
2:s0:179:ARG:HD3	2:s0:183:ARG:CZ	2.51	0.40
6:s4:52:LEU:HD23	6:s4:52:LEU:HA	1.86	0.40
6:s4:152:PRO:HD2	8:s6:215:ARG:HD3	2.02	0.40
9:s7:143:LEU:HB2	9:s7:147:ASN:O	2.20	0.40
11:s9:6:ARG:HD2	11:s9:6:ARG:HA	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:96:VAL:O	11:s9:99:LEU:HB3	2.21	0.40
16:c4:128:LYS:HD3	28:d6:27:SER:CB	2.52	0.40
18:c6:38:LEU:HA	18:c6:38:LEU:HD23	1.70	0.40
18:c6:40:GLU:C	18:c6:42:GLU:N	2.78	0.40
20:c8:66:LEU:O	20:c8:70:VAL:HG23	2.21	0.40
29:d7:54:VAL:O	29:d7:63:LEU:N	2.54	0.40
34:sR:123:ILE:HD12	34:sR:154:VAL:HG23	2.02	0.40
34:sR:205:SER:HA	34:sR:245:PHE:HD2	1.85	0.40
34:sR:309:VAL:HG23	34:sR:311:ARG:NH1	2.36	0.40
36:5:191:U:H2'	36:5:192:C:H6	1.87	0.40
36:5:240:U:HO2'	36:5:241:G:H8	1.63	0.40
36:5:278:U:H2'	36:5:279:U:C6	2.56	0.40
36:5:299:G:N7	86:5:3682:OHX:N1	2.68	0.40
36:5:550:A:H2'	36:5:551:A:C8	2.57	0.40
36:5:712:G:H2'	36:5:713:U:H6	1.86	0.40
36:5:1433:A:P	68:o2:19:ARG:HH22	2.44	0.40
36:5:2274:U:P	86:5:3485:OHX:N6	2.94	0.40
36:5:2778:G:C2'	36:5:2779:A:H5'	2.52	0.40
36:5:2993:G:H2'	36:5:3142:A:H61	1.86	0.40
36:5:3279:A:N6	36:5:3280:U:C4	2.89	0.40
37:7:110:G:C6	37:7:111:U:C4	3.10	0.40
38:8:145:U:H2'	38:8:146:U:C6	2.57	0.40
40:l3:20:LYS:HG3	40:l3:21:ARG:O	2.21	0.40
40:l3:214:MET:SD	40:l3:281:LYS:HB2	2.61	0.40
40:l3:219:ALA:HB2	40:l3:336:VAL:HG13	2.02	0.40
40:l3:246:LEU:H	40:l3:246:LEU:HG	1.49	0.40
41:l4:44:LYS:HB3	41:l4:47:ARG:NH1	2.37	0.40
41:l4:49:ALA:HA	41:l4:109:TRP:CZ2	2.56	0.40
51:m5:89:VAL:O	51:m5:92:LEU:HD22	2.21	0.40
53:m7:52:LEU:HD12	53:m7:52:LEU:HA	1.81	0.40
54:m8:157:PRO:HG3	64:n8:47:LYS:HB2	2.04	0.40
55:m9:5:ARG:CZ	55:m9:5:ARG:HB2	2.49	0.40
55:m9:115:ILE:HG22	55:m9:146:LYS:HE3	2.03	0.40
62:n6:74:TYR:HD2	62:n6:81:GLN:NE2	2.19	0.40
67:o1:27:LYS:C	67:o1:30:PRO:HD2	2.46	0.40
67:o1:33:VAL:HG13	67:o1:51:LEU:HD11	2.03	0.40
75:o9:9:ILE:HG22	75:o9:13:MET:HE2	2.03	0.40
84:p0:60:ARG:HG3	84:p0:77:LEU:HD22	2.04	0.40
1:2:234:G:C6	1:2:235:G:H1'	2.57	0.40
1:2:755:A:HO2'	1:2:756:A:P	2.44	0.40
1:2:810:G:C5	9:S7:111:LYS:HE3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1157:A:H2'	1:2:1160:A:N7	2.35	0.40
1:2:1784:C:H2'	1:2:1785:U:H6	1.85	0.40
86:2:1911:OHX:N6	3:S1:157:GLN:HG3	2.36	0.40
2:S0:26:ALA:HB3	2:S0:149:LEU:HB2	2.02	0.40
2:S0:77:SER:HB2	2:S0:124:THR:HG21	2.03	0.40
7:S5:194:LEU:O	7:S5:198:LEU:HG	2.21	0.40
15:C3:22:ALA:HB1	15:C3:23:PRO:HA	2.03	0.40
15:C3:93:LYS:HD2	15:C3:150:VAL:HG13	2.03	0.40
22:D0:17:GLN:HA	22:D0:97:VAL:HG12	2.04	0.40
22:D0:48:HIS:O	22:D0:48:HIS:CG	2.74	0.40
25:D3:51:GLY:HA3	25:D3:74:VAL:HG12	2.04	0.40
25:D3:91:GLY:C	25:D3:93:LEU:H	2.29	0.40
36:1:174:C:H2'	36:1:175:C:C6	2.57	0.40
36:1:980:A:C8	36:1:980:A:OP2	2.72	0.40
36:1:1560:G:H2'	36:1:1561:G:H5'	2.03	0.40
36:1:1639:C:OP1	70:O4:52:GLN:HG2	2.21	0.40
36:1:1940:G:H21	36:1:3362:A:H8	1.64	0.40
36:1:2948:C:O2'	40:L3:242:THR:HG22	2.21	0.40
37:3:106:U:H2'	37:3:107:C:C6	2.57	0.40
41:L4:229:ASN:OD1	41:L4:231:ALA:N	2.42	0.40
42:L5:64:ILE:HD12	42:L5:105:ILE:HD12	2.03	0.40
42:L5:211:LEU:HD22	42:L5:211:LEU:HA	1.88	0.40
46:L9:176:LEU:HA	46:L9:176:LEU:HD23	1.76	0.40
49:M3:46:ILE:HG22	49:M3:46:ILE:O	2.21	0.40
54:M8:8:LYS:HB2	54:M8:8:LYS:HE3	1.76	0.40
54:M8:161:LYS:HD3	54:M8:161:LYS:HA	1.86	0.40
55:M9:60:LYS:HE2	55:M9:64:ARG:HH21	1.85	0.40
62:N6:53:ASP:HB2	62:N6:110:HIS:CD2	2.56	0.40
66:O0:34:LEU:HD12	66:O0:34:LEU:HA	1.95	0.40
66:O0:100:ILE:O	66:O0:105:ALA:HB3	2.22	0.40
68:O2:33:ARG:HD3	68:O2:33:ARG:HA	1.80	0.40
1:6:577:G:H3'	1:6:577:G:C8	2.57	0.40
1:6:1542:G:H22	1:6:1568:C:H1'	1.86	0.40
3:s1:58:SER:HB2	3:s1:62:LYS:HE2	2.04	0.40
12:c0:25:LYS:HB2	12:c0:64:TYR:CE2	2.57	0.40
12:c0:44:LYS:HA	12:c0:44:LYS:HD3	1.62	0.40
13:c1:112:SER:O	13:c1:114:ALA:N	2.44	0.40
14:c2:94:ALA:HB1	14:c2:118:ALA:O	2.22	0.40
15:c3:91:LEU:HB3	15:c3:122:ILE:HG12	2.03	0.40
15:c3:92:ILE:HD11	15:c3:139:TRP:HH2	1.87	0.40
17:c5:37:ALA:O	17:c5:42:ARG:NH1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d2:90:THR:O	24:d2:94:LEU:HB2	2.21	0.40
34:sR:70:ASP:HB2	34:sR:112:SER:HA	2.03	0.40
36:5:1160:C:C2	68:o2:45:ARG:NH1	2.89	0.40
36:5:1221:A:H3'	36:5:1222:G:H5'	2.04	0.40
36:5:1327:C:O2'	36:5:1328:C:H5'	2.21	0.40
36:5:1580:A:HO2'	36:5:1581:C:P	2.42	0.40
36:5:1947:G:H5"	36:5:1948:G:OP2	2.21	0.40
36:5:2390:A:H2'	36:5:2391:G:O4'	2.22	0.40
36:5:2926:A:O2'	36:5:2927:C:H5'	2.22	0.40
36:5:3165:A:H61	36:5:3285:C:H42	1.69	0.40
36:5:3288:G:O2'	36:5:3289:G:H8	2.03	0.40
39:l2:69:TYR:O	39:l2:70:ARG:HB3	2.22	0.40
40:l3:19:ARG:HB3	40:l3:232:ARG:HH12	1.86	0.40
41:l4:181:VAL:HG11	41:l4:224:GLY:HA3	2.03	0.40
41:l4:299:ILE:HG23	54:m8:39:ARG:HB3	2.04	0.40
42:l5:95:TRP:CD1	42:l5:95:TRP:C	2.98	0.40
42:l5:146:LEU:HD13	42:l5:148:ILE:CD1	2.50	0.40
43:l6:41:ILE:HG12	43:l6:51:ARG:HG2	2.03	0.40
81:l8:160:ILE:HD12	81:l8:164:VAL:HG13	2.03	0.40
52:m6:89:SER:O	52:m6:95:GLY:HA3	2.20	0.40
68:o2:31:ASN:OD1	68:o2:31:ASN:N	2.53	0.40
72:o6:33:ALA:O	72:o6:34:SER:HB3	2.22	0.40
76:q0:77:ILE:HG13	76:q0:78:ILE:N	2.36	0.40
1:2:186:C:H42	1:2:199:G:H1	1.67	0.40
1:2:1006:C:OP1	86:2:1913:OHX:N5	2.54	0.40
1:2:1332:C:O5'	1:2:1332:C:H6	2.04	0.40
3:S1:101:HIS:C	3:S1:217:LEU:HD13	2.46	0.40
5:S3:71:LEU:HD23	5:S3:71:LEU:HA	1.77	0.40
5:S3:208:ILE:HD12	19:C7:16:LEU:HD21	2.03	0.40
11:S9:37:LYS:HA	32:E0:33:ARG:HA	2.03	0.40
12:C0:2:LEU:HD12	12:C0:2:LEU:HA	1.93	0.40
20:C8:48:LYS:HD3	21:C9:35:ASP:OD2	2.21	0.40
22:D0:93:LEU:HD23	22:D0:93:LEU:HA	1.86	0.40
23:D1:72:LEU:O	23:D1:75:ASN:ND2	2.55	0.40
24:D2:106:THR:OG1	24:D2:111:MET:HE2	2.22	0.40
36:1:45:A:P	51:M5:85:THR:HG21	2.62	0.40
36:1:216:G:OP1	62:N6:16:ARG:NH1	2.54	0.40
36:1:828:A:H2'	36:1:829:U:C6	2.56	0.40
36:1:980:A:H2'	36:1:981:U:C1'	2.51	0.40
36:1:989:A:O2'	57:N1:104:GLU:HB3	2.20	0.40
36:1:1554:U:C2	36:1:1555:U:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1781:C:H2'	36:1:1782:U:C6	2.57	0.40
36:1:2563:G:O2'	45:L8:29:SER:HB2	2.20	0.40
40:L3:177:HIS:CG	40:L3:335:ILE:HD13	2.56	0.40
42:L5:55:PHE:CZ	42:L5:158:ARG:HG3	2.56	0.40
44:L7:44:ILE:HG12	44:L7:179:LEU:HD23	2.02	0.40
46:L9:79:ILE:O	46:L9:82:VAL:HG12	2.21	0.40
50:M4:32:LEU:HD11	50:M4:94:TRP:CG	2.55	0.40
52:M6:172:ARG:HE	52:M6:172:ARG:HB3	1.52	0.40
56:N0:7:TYR:CD1	56:N0:61:ILE:HD11	2.57	0.40
67:O1:20:LEU:HD23	67:O1:20:LEU:HA	1.85	0.40
76:Q0:78:ILE:HG12	76:Q0:83:LYS:HD3	2.04	0.40
1:6:361:C:N4	1:6:379:U:OP1	2.52	0.40
1:6:400:A:H61	10:s8:29:LEU:HD12	1.83	0.40
1:6:698:U:O4	86:6:1929:OHX:N1	2.55	0.40
7:s5:87:CYS:SG	7:s5:92:ARG:HG3	2.62	0.40
16:c4:61:MET:O	16:c4:65:GLN:HG2	2.21	0.40
17:c5:108:ARG:NH2	20:c8:119:ILE:HD12	2.37	0.40
19:c7:50:ILE:O	19:c7:54:THR:HG23	2.21	0.40
23:d1:56:SER:O	23:d1:60:ARG:HG3	2.22	0.40
23:d1:56:SER:OG	23:d1:59:VAL:HG23	2.20	0.40
26:d4:43:LYS:HA	26:d4:43:LYS:HD3	1.91	0.40
27:d5:74:SER:HA	27:d5:77:ARG:NH2	2.37	0.40
36:5:1220:U:OP1	36:5:1221:A:O2'	2.34	0.40
36:5:1232:C:O2'	84:p0:36:GLN:OE1	2.29	0.40
36:5:1653:G:H4'	70:o4:43:LYS:O	2.20	0.40
36:5:2115:G:H22	36:5:2120:A:H1'	1.87	0.40
36:5:2220:A:N6	36:5:2221:G:C6	2.90	0.40
36:5:2258:U:H5"	36:5:2259:A:OP2	2.21	0.40
36:5:2294:U:O2	36:5:2296:A:H8	2.04	0.40
36:5:3065:G:H2'	36:5:3066:U:O4'	2.21	0.40
36:5:3134:A:OP1	86:5:3427:OHX:N3	2.54	0.40
36:5:3136:G:C6	36:5:3137:C:C4	3.10	0.40
39:l2:221:LYS:HE3	39:l2:221:LYS:HB3	1.91	0.40
41:l4:93:MET:HE2	41:l4:93:MET:H	1.86	0.40
41:l4:178:LEU:HD21	41:l4:225:VAL:CG2	2.52	0.40
41:l4:222:VAL:HA	41:l4:223:PRO:HD3	1.90	0.40
41:l4:321:LYS:HA	41:l4:324:LEU:HB3	2.04	0.40
42:l5:95:TRP:O	42:l5:98:ALA:HB3	2.21	0.40
81:l8:89:GLU:HG2	81:l8:214:LEU:HD11	2.04	0.40
46:l9:48:VAL:HG13	46:l9:52:LEU:O	2.21	0.40
49:m3:160:GLN:OE1	49:m3:160:GLN:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:143:ARG:HH21	71:o5:92:LEU:HA	1.87	0.40
51:m5:185:ALA:HB3	51:m5:190:THR:HG22	2.03	0.40
52:m6:108:ILE:HD13	52:m6:108:ILE:HG21	1.83	0.40
56:n0:42:TRP:O	56:n0:46:GLN:HG3	2.21	0.40
63:n7:46:ILE:HD11	63:n7:49:TYR:CE2	2.56	0.40
65:n9:46:ALA:O	65:n9:50:THR:HG22	2.21	0.40
65:n9:58:LYS:C	65:n9:59:LYS:HE3	2.46	0.40
1:2:224:C:H2'	1:2:225:A:H8	1.87	0.40
1:2:600:U:OP2	25:D3:108:GLY:HA2	2.21	0.40
1:2:993:A:H4'	1:2:1777:G:O2'	2.21	0.40
1:2:1067:C:H2'	1:2:1068:C:H6	1.87	0.40
1:2:1215:C:N3	1:2:1216:C:N4	2.69	0.40
1:2:1767:G:OP1	1:2:1770:U:H4'	2.22	0.40
4:S2:118:ALA:HB3	4:S2:124:ALA:HB2	2.02	0.40
7:S5:146:THR:HG23	7:S5:221:ALA:HA	2.04	0.40
8:S6:58:LYS:C	8:S6:60:GLY:H	2.29	0.40
13:C1:80:MET:H	13:C1:80:MET:HG3	1.59	0.40
21:C9:117:SER:OG	21:C9:118:PRO:O	2.39	0.40
24:D2:46:TYR:HB3	24:D2:69:LEU:HD13	2.03	0.40
25:D3:79:ASN:HB3	25:D3:81:LYS:HG3	2.03	0.40
28:D6:79:ILE:O	28:D6:84:VAL:HG21	2.21	0.40
35:SM:102:THR:HG22	35:SM:105:LYS:HB2	2.03	0.40
36:1:289:A:C2	51:M5:93:LYS:HG3	2.56	0.40
36:1:610:G:C8	41:L4:312:VAL:HG21	2.57	0.40
36:1:915:A:H8	36:1:2136:C:O2'	2.05	0.40
36:1:994:G:N2	36:1:995:U:O4	2.53	0.40
36:1:2195:C:O5'	36:1:2195:C:H6	2.04	0.40
36:1:2691:A:H2'	36:1:2692:A:O4'	2.21	0.40
36:1:2700:G:OP1	57:N1:17:ARG:HB2	2.22	0.40
36:1:2887:A:H2'	36:1:2887:A:N3	2.36	0.40
36:1:3375:A:O2'	36:1:3378:C:H5'	2.22	0.40
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.55	0.40
37:3:47:C:OP1	42:L5:94:ASN:HB2	2.21	0.40
37:3:108:A:H2'	37:3:109:G:H8	1.87	0.40
39:L2:77:ILE:CD1	39:L2:128:ARG:HB3	2.51	0.40
40:L3:37:ARG:HA	40:L3:186:GLY:HA2	2.04	0.40
40:L3:153:LYS:HG2	40:L3:154:TYR:CE2	2.57	0.40
41:L4:23:PRO:O	41:L4:24:ALA:HB3	2.21	0.40
42:L5:58:LYS:HD2	42:L5:93:THR:CB	2.52	0.40
42:L5:78:ALA:HB3	42:L5:105:ILE:HG12	2.03	0.40
42:L5:113:LEU:HB3	42:L5:115:LEU:HD22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:L6:41:ILE:HB	43:L6:85:ILE:HB	2.02	0.40
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.56	0.40
47:M0:73:ASN:O	47:M0:77:THR:HG23	2.22	0.40
50:M4:77:ARG:O	50:M4:81:VAL:HG23	2.22	0.40
50:M4:102:LYS:HB2	50:M4:102:LYS:HE3	1.75	0.40
52:M6:20:ALA:HA	52:M6:84:LEU:HG	2.03	0.40
54:M8:19:PRO:HD3	54:M8:53:PHE:CE1	2.57	0.40
54:M8:178:ARG:HA	54:M8:178:ARG:HD3	1.70	0.40
58:N2:20:SER:OG	58:N2:21:SER:N	2.53	0.40
60:N4:5:ILE:CD1	60:N4:10:GLY:HA2	2.51	0.40
63:N7:4:PHE:CE2	66:O0:35:ARG:HA	2.57	0.40
1:6:169:A:C5'	8:s6:176:GLN:HG2	2.52	0.40
1:6:370:A:H2'	1:6:371:G:O4'	2.22	0.40
1:6:393:C:H2'	1:6:394:C:C6	2.56	0.40
1:6:781:U:O2	1:6:781:U:H5"	2.22	0.40
1:6:901:G:N1	1:6:902:G:C6	2.90	0.40
1:6:1255:G:H4'	1:6:1256:A:OP1	2.21	0.40
1:6:1460:A:P	80:sM:68:ARG:HH21	2.44	0.40
2:s0:74:VAL:HG23	2:s0:118:PRO:HB3	2.03	0.40
2:s0:163:ASN:C	2:s0:165:ARG:N	2.78	0.40
4:s2:98:PHE:O	4:s2:117:THR:HA	2.22	0.40
4:s2:111:VAL:O	4:s2:136:VAL:HA	2.21	0.40
4:s2:178:ILE:HD13	4:s2:188:LEU:HB2	2.03	0.40
5:s3:202:LEU:C	5:s3:204:ASP:H	2.29	0.40
6:s4:125:LYS:HE3	6:s4:127:LYS:NZ	2.36	0.40
7:s5:45:LYS:HD3	7:s5:45:LYS:HA	1.87	0.40
8:s6:31:ARG:HH21	8:s6:68:LEU:HD12	1.87	0.40
11:s9:81:VAL:O	11:s9:150:LEU:HD22	2.21	0.40
11:s9:171:ARG:HA	11:s9:171:ARG:NE	2.37	0.40
17:c5:22:LEU:HA	17:c5:25:LEU:HD12	2.03	0.40
18:c6:78:VAL:O	18:c6:81:ILE:HG12	2.22	0.40
20:c8:46:VAL:HG11	20:c8:73:MET:HE3	2.03	0.40
23:d1:14:PRO:HB2	23:d1:23:ILE:HG23	2.02	0.40
26:d4:45:ALA:HB1	26:d4:51:GLU:H	1.86	0.40
31:d9:22:ARG:HG2	31:d9:38:ILE:HD13	2.04	0.40
34:sR:38:ARG:HG2	34:sR:67:ILE:HG23	2.03	0.40
36:5:317:A:H2'	36:5:318:A:C8	2.56	0.40
36:5:498:A:O2'	36:5:3273:A:N1	2.50	0.40
36:5:1522:U:H3'	61:n5:113:LEU:HD22	2.04	0.40
36:5:1602:A:H4'	55:m9:10:LEU:HD21	2.03	0.40
36:5:2112:U:H4'	36:5:2113:A:C5'	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2271:A:N7	36:5:2272:G:C6	2.90	0.40
36:5:2505:U:H2'	36:5:2506:U:C4	2.56	0.40
36:5:2556:C:OP1	70:o4:88:ARG:NH1	2.52	0.40
40:l3:109:HIS:HB2	40:l3:200:GLU:CD	2.47	0.40
40:l3:361:THR:HG23	40:l3:371:GLN:O	2.21	0.40
40:l3:383:LEU:HD12	40:l3:385:LYS:HE2	2.03	0.40
41:l4:74:ILE:HD12	41:l4:74:ILE:HA	1.95	0.40
47:m0:3:ARG:NH2	47:m0:63:GLU:HG3	2.37	0.40
49:m3:105:ASN:OD1	49:m3:107:GLU:HG2	2.22	0.40
52:m6:34:VAL:HB	52:m6:103:LYS:HB2	2.04	0.40
52:m6:128:ARG:HD2	52:m6:128:ARG:HA	1.41	0.40
58:n2:73:GLY:HA3	58:n2:103:TYR:OH	2.22	0.40
59:n3:24:ASN:O	59:n3:99:ALA:HA	2.22	0.40
59:n3:33:ASN:ND2	59:n3:64:LYS:HB2	2.37	0.40
63:n7:36:HIS:ND1	63:n7:36:HIS:N	2.70	0.40
65:n9:24:PRO:O	65:n9:25:LYS:HB2	2.20	0.40
66:o0:10:ILE:HG12	66:o0:68:TYR:CZ	2.57	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)
36:1:3195:U:OP1	86:C8:201:OHX:N6[2_555]	2.11	0.09
1:2:1353:U:O2'	36:5:3165:A:OP1[2_546]	2.12	0.08

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%)	173 (85%)	27 (13%)	4 (2%)	6 25
2	s0	204/206 (99%)	175 (86%)	21 (10%)	8 (4%)	2 14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	S1	212/216 (98%)	167 (79%)	40 (19%)	5 (2%)	4 22
3	s1	214/216 (99%)	182 (85%)	29 (14%)	3 (1%)	9 34
4	S2	215/217 (99%)	200 (93%)	11 (5%)	4 (2%)	6 27
4	s2	215/217 (99%)	195 (91%)	17 (8%)	3 (1%)	9 34
5	S3	221/223 (99%)	194 (88%)	23 (10%)	4 (2%)	6 28
5	s3	221/223 (99%)	185 (84%)	31 (14%)	5 (2%)	5 23
6	S4	258/260 (99%)	232 (90%)	24 (9%)	2 (1%)	16 47
6	s4	258/260 (99%)	230 (89%)	25 (10%)	3 (1%)	10 37
7	S5	204/206 (99%)	181 (89%)	15 (7%)	8 (4%)	2 14
7	s5	204/206 (99%)	182 (89%)	19 (9%)	3 (2%)	8 32
8	S6	224/226 (99%)	207 (92%)	14 (6%)	3 (1%)	9 35
8	s6	216/226 (96%)	198 (92%)	14 (6%)	4 (2%)	6 27
9	S7	182/186 (98%)	148 (81%)	20 (11%)	14 (8%)	1 4
9	s7	184/186 (99%)	154 (84%)	27 (15%)	3 (2%)	7 30
10	S8	184/200 (92%)	161 (88%)	21 (11%)	2 (1%)	11 39
10	s8	184/200 (92%)	170 (92%)	11 (6%)	3 (2%)	7 30
11	S9	183/185 (99%)	163 (89%)	16 (9%)	4 (2%)	5 24
11	s9	183/185 (99%)	164 (90%)	18 (10%)	1 (0%)	24 57
12	C0	94/98 (96%)	75 (80%)	17 (18%)	2 (2%)	5 25
12	c0	92/98 (94%)	67 (73%)	14 (15%)	11 (12%)	0 1
13	C1	153/156 (98%)	131 (86%)	20 (13%)	2 (1%)	9 35
13	c1	144/156 (92%)	124 (86%)	15 (10%)	5 (4%)	3 16
14	C2	122/124 (98%)	89 (73%)	27 (22%)	6 (5%)	1 11
14	c2	122/124 (98%)	85 (70%)	33 (27%)	4 (3%)	3 17
15	C3	148/150 (99%)	138 (93%)	9 (6%)	1 (1%)	18 49
15	c3	148/150 (99%)	130 (88%)	15 (10%)	3 (2%)	6 25
16	C4	125/128 (98%)	111 (89%)	12 (10%)	2 (2%)	7 30
16	c4	126/128 (98%)	111 (88%)	14 (11%)	1 (1%)	16 47
17	C5	122/142 (86%)	102 (84%)	14 (12%)	6 (5%)	1 11
17	c5	133/142 (94%)	109 (82%)	17 (13%)	7 (5%)	1 10
18	C6	139/142 (98%)	124 (89%)	13 (9%)	2 (1%)	9 34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
18	c6	140/142 (99%)	131 (94%)	9 (6%)	0	100 100
19	C7	116/136 (85%)	100 (86%)	11 (10%)	5 (4%)	2 12
19	c7	113/136 (83%)	99 (88%)	11 (10%)	3 (3%)	4 20
20	C8	143/145 (99%)	120 (84%)	18 (13%)	5 (4%)	3 16
20	c8	143/145 (99%)	121 (85%)	17 (12%)	5 (4%)	3 16
21	C9	141/143 (99%)	127 (90%)	14 (10%)	0	100 100
21	c9	141/143 (99%)	125 (89%)	14 (10%)	2 (1%)	9 34
22	D0	105/110 (96%)	91 (87%)	13 (12%)	1 (1%)	12 41
22	d0	108/110 (98%)	89 (82%)	14 (13%)	5 (5%)	2 12
23	D1	85/87 (98%)	71 (84%)	13 (15%)	1 (1%)	10 37
23	d1	85/87 (98%)	75 (88%)	9 (11%)	1 (1%)	10 37
24	D2	127/129 (98%)	118 (93%)	6 (5%)	3 (2%)	4 22
24	d2	127/129 (98%)	119 (94%)	7 (6%)	1 (1%)	16 47
25	D3	142/144 (99%)	118 (83%)	19 (13%)	5 (4%)	3 16
25	d3	142/144 (99%)	131 (92%)	11 (8%)	0	100 100
26	D4	132/134 (98%)	117 (89%)	9 (7%)	6 (4%)	2 12
26	d4	132/134 (98%)	111 (84%)	18 (14%)	3 (2%)	5 23
27	D5	68/70 (97%)	51 (75%)	14 (21%)	3 (4%)	2 12
27	d5	67/70 (96%)	58 (87%)	8 (12%)	1 (2%)	8 32
28	D6	95/97 (98%)	70 (74%)	19 (20%)	6 (6%)	1 6
28	d6	95/97 (98%)	76 (80%)	12 (13%)	7 (7%)	1 5
29	D7	79/81 (98%)	69 (87%)	8 (10%)	2 (2%)	4 21
29	d7	79/81 (98%)	72 (91%)	6 (8%)	1 (1%)	9 35
30	D8	61/63 (97%)	54 (88%)	7 (12%)	0	100 100
30	d8	61/63 (97%)	49 (80%)	12 (20%)	0	100 100
31	D9	51/53 (96%)	47 (92%)	4 (8%)	0	100 100
31	d9	51/53 (96%)	48 (94%)	2 (4%)	1 (2%)	6 25
32	E0	58/62 (94%)	49 (84%)	7 (12%)	2 (3%)	3 16
32	e0	60/62 (97%)	51 (85%)	7 (12%)	2 (3%)	3 17
33	E1	69/76 (91%)	45 (65%)	18 (26%)	6 (9%)	0 4
33	e1	74/76 (97%)	49 (66%)	18 (24%)	7 (10%)	0 3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	SR	316/318 (99%)	288 (91%)	28 (9%)	0	100	100
34	sR	316/318 (99%)	286 (90%)	26 (8%)	4 (1%)	9	35
35	SM	131/176 (74%)	108 (82%)	17 (13%)	6 (5%)	2	12
39	L2	250/252 (99%)	234 (94%)	15 (6%)	1 (0%)	30	61
39	l2	250/252 (99%)	225 (90%)	22 (9%)	3 (1%)	10	37
40	L3	384/386 (100%)	356 (93%)	24 (6%)	4 (1%)	12	41
40	l3	384/386 (100%)	362 (94%)	20 (5%)	2 (0%)	24	57
41	L4	359/361 (99%)	327 (91%)	32 (9%)	0	100	100
41	l4	359/361 (99%)	327 (91%)	25 (7%)	7 (2%)	6	27
42	L5	294/296 (99%)	257 (87%)	33 (11%)	4 (1%)	9	34
42	l5	292/296 (99%)	275 (94%)	17 (6%)	0	100	100
43	L6	152/176 (86%)	145 (95%)	6 (4%)	1 (1%)	18	49
43	l6	153/176 (87%)	139 (91%)	12 (8%)	2 (1%)	9	35
44	L7	220/223 (99%)	208 (94%)	11 (5%)	1 (0%)	24	57
44	l7	221/223 (99%)	208 (94%)	11 (5%)	2 (1%)	14	44
45	L8	231/233 (99%)	203 (88%)	22 (10%)	6 (3%)	4	21
46	L9	189/191 (99%)	171 (90%)	17 (9%)	1 (0%)	24	57
46	l9	189/191 (99%)	175 (93%)	12 (6%)	2 (1%)	11	39
47	M0	207/221 (94%)	188 (91%)	19 (9%)	0	100	100
47	m0	209/221 (95%)	188 (90%)	18 (9%)	3 (1%)	9	34
48	M1	167/169 (99%)	141 (84%)	20 (12%)	6 (4%)	2	16
48	m1	167/169 (99%)	143 (86%)	18 (11%)	6 (4%)	2	16
49	M3	191/194 (98%)	171 (90%)	14 (7%)	6 (3%)	3	18
49	m3	192/194 (99%)	166 (86%)	17 (9%)	9 (5%)	2	11
50	M4	134/137 (98%)	125 (93%)	7 (5%)	2 (2%)	8	32
50	m4	135/137 (98%)	132 (98%)	3 (2%)	0	100	100
51	M5	201/203 (99%)	191 (95%)	8 (4%)	2 (1%)	12	41
51	m5	201/203 (99%)	186 (92%)	12 (6%)	3 (2%)	8	32
52	M6	195/197 (99%)	189 (97%)	4 (2%)	2 (1%)	12	41
52	m6	195/197 (99%)	184 (94%)	11 (6%)	0	100	100
53	M7	181/183 (99%)	169 (93%)	12 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
53	m7	153/183 (84%)	146 (95%)	7 (5%)	0	100 100
54	M8	183/185 (99%)	169 (92%)	12 (7%)	2 (1%)	11 39
54	m8	183/185 (99%)	169 (92%)	13 (7%)	1 (0%)	24 57
55	M9	186/188 (99%)	175 (94%)	9 (5%)	2 (1%)	11 39
55	m9	186/188 (99%)	173 (93%)	13 (7%)	0	100 100
56	N0	170/172 (99%)	158 (93%)	9 (5%)	3 (2%)	6 28
56	n0	170/172 (99%)	163 (96%)	7 (4%)	0	100 100
57	N1	157/159 (99%)	142 (90%)	13 (8%)	2 (1%)	9 35
57	n1	157/159 (99%)	149 (95%)	6 (4%)	2 (1%)	9 35
58	N2	98/100 (98%)	85 (87%)	12 (12%)	1 (1%)	12 41
58	n2	96/100 (96%)	91 (95%)	4 (4%)	1 (1%)	12 41
59	N3	134/136 (98%)	128 (96%)	6 (4%)	0	100 100
59	n3	134/136 (98%)	130 (97%)	3 (2%)	1 (1%)	18 49
60	N4	96/98 (98%)	84 (88%)	10 (10%)	2 (2%)	5 25
61	N5	119/121 (98%)	113 (95%)	6 (5%)	0	100 100
61	n5	118/121 (98%)	104 (88%)	14 (12%)	0	100 100
62	N6	124/126 (98%)	115 (93%)	9 (7%)	0	100 100
62	n6	124/126 (98%)	119 (96%)	3 (2%)	2 (2%)	7 30
63	N7	133/135 (98%)	124 (93%)	6 (4%)	3 (2%)	5 23
63	n7	133/135 (98%)	115 (86%)	15 (11%)	3 (2%)	5 23
64	N8	146/148 (99%)	131 (90%)	12 (8%)	3 (2%)	5 25
64	n8	146/148 (99%)	131 (90%)	13 (9%)	2 (1%)	9 34
65	N9	56/58 (97%)	49 (88%)	7 (12%)	0	100 100
65	n9	56/58 (97%)	46 (82%)	9 (16%)	1 (2%)	6 28
66	O0	95/100 (95%)	93 (98%)	2 (2%)	0	100 100
66	o0	98/100 (98%)	89 (91%)	9 (9%)	0	100 100
67	O1	107/109 (98%)	100 (94%)	6 (6%)	1 (1%)	14 44
67	o1	107/109 (98%)	100 (94%)	6 (6%)	1 (1%)	14 44
68	O2	125/127 (98%)	121 (97%)	4 (3%)	0	100 100
68	o2	125/127 (98%)	116 (93%)	6 (5%)	3 (2%)	4 22
69	O3	104/106 (98%)	99 (95%)	5 (5%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
69	o3	104/106 (98%)	97 (93%)	7 (7%)	0	100 100
70	O4	110/112 (98%)	104 (94%)	6 (6%)	0	100 100
70	o4	110/112 (98%)	102 (93%)	7 (6%)	1 (1%)	14 44
71	O5	117/119 (98%)	108 (92%)	9 (8%)	0	100 100
71	o5	117/119 (98%)	106 (91%)	11 (9%)	0	100 100
72	O6	97/99 (98%)	79 (81%)	15 (16%)	3 (3%)	3 18
72	o6	97/99 (98%)	87 (90%)	8 (8%)	2 (2%)	5 25
73	O7	85/87 (98%)	78 (92%)	7 (8%)	0	100 100
73	o7	85/87 (98%)	78 (92%)	6 (7%)	1 (1%)	10 37
74	O8	75/77 (97%)	66 (88%)	6 (8%)	3 (4%)	2 13
74	o8	75/77 (97%)	67 (89%)	7 (9%)	1 (1%)	9 35
75	O9	48/50 (96%)	46 (96%)	2 (4%)	0	100 100
75	o9	48/50 (96%)	44 (92%)	4 (8%)	0	100 100
76	Q0	50/52 (96%)	47 (94%)	3 (6%)	0	100 100
76	q0	50/52 (96%)	46 (92%)	3 (6%)	1 (2%)	6 25
77	Q1	23/25 (92%)	22 (96%)	1 (4%)	0	100 100
77	q1	23/25 (92%)	23 (100%)	0	0	100 100
78	Q2	103/105 (98%)	89 (86%)	14 (14%)	0	100 100
78	q2	103/105 (98%)	96 (93%)	6 (6%)	1 (1%)	12 41
79	Q3	89/91 (98%)	81 (91%)	7 (8%)	1 (1%)	11 39
79	q3	89/91 (98%)	85 (96%)	3 (3%)	1 (1%)	11 39
80	sM	61/159 (38%)	50 (82%)	8 (13%)	3 (5%)	1 11
81	l8	229/231 (99%)	197 (86%)	28 (12%)	4 (2%)	7 30
83	n4	133/135 (98%)	111 (84%)	16 (12%)	6 (4%)	2 12
84	p0	139/312 (45%)	126 (91%)	12 (9%)	1 (1%)	18 49
All	All	22272/23122 (96%)	19937 (90%)	1963 (9%)	372 (2%)	7 30

All (372) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
9	S7	64	VAL
9	S7	111	LYS
9	S7	131	PHE

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Mol	Chain	Res	Type
9	S7	133	THR
12	C0	87	VAL
12	C0	88	PRO
14	C2	126	TRP
18	C6	39	VAL
19	C7	85	VAL
19	C7	86	PRO
20	C8	28	ILE
24	D2	83	ILE
26	D4	35	VAL
27	D5	39	ALA
32	E0	47	VAL
40	L3	140	ASP
43	L6	98	VAL
45	L8	36	ILE
46	L9	50	ASN
48	M1	11	ASP
49	M3	129	ASN
52	M6	111	PRO
72	O6	33	ALA
72	O6	34	SER
2	s0	189	VAL
3	s1	210	ILE
4	s2	92	ALA
9	s7	64	VAL
12	c0	83	PRO
12	c0	88	PRO
12	c0	97	PRO
14	c2	91	VAL
17	c5	126	VAL
20	c8	91	ASP
24	d2	6	VAL
33	e1	87	THR
33	e1	102	VAL
39	l2	239	ALA
43	l6	98	VAL
43	l6	130	ILE
48	m1	152	HIS
49	m3	63	VAL
51	m5	184	LYS
83	n4	76	VAL
63	n7	130	PHE

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Mol	Chain	Res	Type
65	n9	21	ILE
3	S1	63	GLY
5	S3	217	ILE
9	S7	66	SER
9	S7	112	ARG
10	S8	148	ALA
13	C1	7	VAL
14	C2	89	ILE
14	C2	91	VAL
16	C4	40	ALA
17	C5	69	GLU
17	C5	70	ASN
17	C5	126	VAL
18	C6	113	ASP
19	C7	88	VAL
19	C7	124	VAL
22	D0	18	GLN
23	D1	82	VAL
24	D2	30	SER
26	D4	5	VAL
28	D6	46	GLU
28	D6	75	VAL
29	D7	62	ILE
33	E1	98	VAL
35	SM	87	THR
40	L3	4	ARG
40	L3	5	LYS
42	L5	252	ALA
42	L5	259	LYS
45	L8	37	GLY
48	M1	115	LYS
50	M4	8	LYS
51	M5	75	VAL
54	M8	99	THR
55	M9	131	ALA
56	N0	13	ARG
57	N1	124	VAL
60	N4	96	LEU
63	N7	30	ASP
74	O8	19	ASP
5	s3	216	PRO
5	s3	217	ILE

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Mol	Chain	Res	Type
5	s3	222	VAL
8	s6	173	PRO
8	s6	174	LYS
9	s7	10	SER
12	c0	82	LEU
13	c1	7	VAL
13	c1	133	LYS
14	c2	84	ASN
15	c3	66	ILE
17	c5	51	SER
19	c7	88	VAL
20	c8	92	ILE
22	d0	15	GLN
22	d0	118	VAL
23	d1	6	GLY
26	d4	52	LYS
26	d4	123	LYS
29	d7	62	ILE
33	e1	98	VAL
33	e1	103	LEU
33	e1	136	LYS
39	l2	238	ILE
41	l4	302	ALA
47	m0	175	ASN
54	m8	99	THR
62	n6	125	LYS
72	o6	63	ASN
74	o8	19	ASP
2	S0	4	PRO
3	S1	62	LYS
5	S3	221	SER
7	S5	58	LEU
7	S5	64	VAL
9	S7	65	PRO
9	S7	67	LEU
9	S7	132	PRO
9	S7	134	GLU
13	C1	6	THR
24	D2	31	SER
25	D3	3	LYS
26	D4	4	ALA
27	D5	71	ILE

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Mol	Chain	Res	Type
33	E1	101	ALA
35	SM	46	LYS
35	SM	86	ASN
35	SM	102	THR
39	L2	251	LYS
48	M1	8	PRO
48	M1	165	GLN
49	M3	51	LEU
49	M3	77	LEU
49	M3	166	ALA
51	M5	74	PRO
56	N0	2	ALA
56	N0	167	ARG
64	N8	79	TRP
2	s0	164	ASN
3	s1	179	SER
7	s5	43	PHE
7	s5	184	PHE
8	s6	70	PRO
13	c1	61	THR
16	c4	126	THR
17	c5	7	ALA
17	c5	125	PRO
20	c8	8	GLN
22	d0	51	VAL
26	d4	35	VAL
28	d6	61	GLU
28	d6	62	TYR
33	e1	84	VAL
34	sR	54	PHE
34	sR	166	SER
41	l4	90	PHE
41	l4	329	PRO
44	l7	229	PHE
48	m1	115	LYS
49	m3	47	ALA
49	m3	140	SER
49	m3	141	ALA
57	n1	136	ARG
59	n3	42	SER
83	n4	63	ILE
83	n4	73	ARG

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Mol	Chain	Res	Type
83	n4	77	LYS
64	n8	78	LEU
3	S1	180	THR
4	S2	40	LYS
4	S2	144	TRP
4	S2	148	LEU
6	S4	164	LEU
8	S6	70	PRO
9	S7	32	PRO
10	S8	152	ILE
14	C2	106	ILE
17	C5	54	ALA
20	C8	61	LEU
20	C8	91	ASP
20	C8	144	ARG
26	D4	36	SER
27	D5	88	ILE
28	D6	45	VAL
28	D6	61	GLU
33	E1	100	LEU
33	E1	111	GLU
48	M1	173	ASP
49	M3	47	ALA
52	M6	110	PRO
55	M9	53	LYS
3	s1	209	ASN
5	s3	45	LYS
7	s5	101	GLY
10	s8	62	THR
11	s9	134	ILE
12	c0	32	HIS
12	c0	94	GLU
13	c1	8	GLN
14	c2	106	ILE
17	c5	128	HIS
17	c5	129	GLY
27	d5	104	ALA
28	d6	15	ARG
33	e1	88	PRO
34	sR	318	ALA
80	sM	48	ARG
80	sM	50	ASN

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Mol	Chain	Res	Type
40	l3	129	ALA
41	l4	342	LYS
44	l7	191	VAL
48	m1	8	PRO
49	m3	51	LEU
83	n4	72	SER
83	n4	133	THR
63	n7	129	TRP
68	o2	12	LYS
70	o4	82	ALA
72	o6	98	ARG
4	S2	39	THR
5	S3	93	ASP
5	S3	216	PRO
7	S5	26	ALA
7	S5	39	GLU
7	S5	51	VAL
7	S5	77	TYR
7	S5	127	GLN
11	S9	100	LYS
11	S9	121	SER
11	S9	134	ILE
14	C2	125	ASN
14	C2	128	ALA
15	C3	22	ALA
17	C5	125	PRO
19	C7	25	THR
20	C8	14	ILE
25	D3	131	SER
25	D3	137	LYS
26	D4	6	THR
29	D7	38	PRO
33	E1	106	TYR
40	L3	317	ILE
42	L5	258	LYS
45	L8	25	PRO
45	L8	39	ALA
45	L8	157	VAL
48	M1	114	ILE
49	M3	76	THR
63	N7	102	GLU
64	N8	48	TYR

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Mol	Chain	Res	Type
64	N8	78	LEU
74	O8	18	ALA
79	Q3	51	ALA
2	s0	9	LEU
2	s0	103	THR
2	s0	206	ASP
4	s2	106	ASP
5	s3	179	GLN
6	s4	172	PHE
9	s7	163	ASP
12	c0	30	ALA
14	c2	66	VAL
17	c5	68	PRO
19	c7	103	ASP
21	c9	142	GLU
28	d6	13	LYS
81	l8	25	PRO
81	l8	34	PHE
81	l8	203	VAL
46	l9	144	ILE
48	m1	10	ARG
48	m1	108	GLU
48	m1	114	ILE
49	m3	50	PRO
49	m3	62	THR
51	m5	183	THR
58	n2	91	ASP
62	n6	126	LEU
63	n7	103	GLN
68	o2	5	PRO
73	o7	86	ALA
78	q2	76	LYS
79	q3	51	ALA
2	S0	27	ARG
2	S0	39	ASN
3	S1	49	ASN
6	S4	195	ILE
8	S6	69	LEU
9	S7	74	GLN
25	D3	112	LYS
28	D6	82	ARG
28	D6	84	VAL

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Mol	Chain	Res	Type
33	E1	84	VAL
42	L5	260	PHE
45	L8	156	ASP
57	N1	12	ARG
58	N2	11	ILE
60	N4	97	LYS
63	N7	103	GLN
67	O1	7	VAL
2	s0	30	GLN
4	s2	235	LEU
12	c0	31	LYS
15	c3	60	VAL
21	c9	34	VAL
22	d0	96	PRO
28	d6	34	LYS
34	sR	160	GLU
39	l2	56	ALA
40	l3	187	SER
47	m0	170	LYS
47	m0	195	ALA
68	o2	6	HIS
76	q0	78	ILE
84	p0	33	VAL
2	S0	158	VAL
3	S1	210	ILE
7	S5	101	GLY
9	S7	98	ILE
16	C4	42	VAL
17	C5	53	PRO
26	D4	47	VAL
35	SM	12	VAL
50	M4	6	ILE
72	O6	3	VAL
10	s8	78	ILE
12	c0	35	ILE
12	c0	92	ILE
19	c7	99	VAL
22	d0	97	VAL
81	l8	237	ILE
64	n8	28	HIS
9	S7	63	PRO
8	s6	69	LEU

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Mol	Chain	Res	Type
10	s8	101	ILE
20	c8	14	ILE
32	e0	47	VAL
51	m5	76	PRO
57	n1	135	PRO
8	S6	173	PRO
35	SM	53	ARG
54	M8	162	ALA
74	O8	36	LYS
2	s0	10	THR
2	s0	158	VAL
6	s4	30	ARG
6	s4	90	ILE
15	c3	22	ALA
20	c8	135	GLY
31	d9	6	VAL
41	l4	301	PRO
46	l9	167	VAL
49	m3	93	ILE
11	S9	168	ARG
32	E0	45	VAL
44	L7	178	ILE
13	c1	129	ARG
28	d6	58	VAL
32	e0	60	PRO
80	sM	43	ASP
41	l4	142	VAL
49	m3	60	ALA
67	o1	45	GLY
25	D3	41	SER
12	c0	3	MET
28	d6	59	TYR
41	l4	145	ILE

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%)	130 (79%)	34 (21%)	1 5
2	s0	165/173 (95%)	129 (78%)	36 (22%)	1 5
3	S1	191/192 (100%)	148 (78%)	43 (22%)	1 4
3	s1	192/192 (100%)	151 (79%)	41 (21%)	1 5
4	S2	176/176 (100%)	136 (77%)	40 (23%)	1 4
4	s2	176/176 (100%)	132 (75%)	44 (25%)	0 2
5	S3	182/182 (100%)	141 (78%)	41 (22%)	1 4
5	s3	182/182 (100%)	149 (82%)	33 (18%)	2 8
6	S4	221/221 (100%)	176 (80%)	45 (20%)	1 5
6	s4	221/221 (100%)	180 (81%)	41 (19%)	1 8
7	S5	173/173 (100%)	141 (82%)	32 (18%)	1 8
7	s5	173/173 (100%)	141 (82%)	32 (18%)	1 8
8	S6	188/193 (97%)	159 (85%)	29 (15%)	2 12
8	s6	187/193 (97%)	151 (81%)	36 (19%)	1 7
9	S7	165/166 (99%)	132 (80%)	33 (20%)	1 6
9	s7	165/166 (99%)	129 (78%)	36 (22%)	1 5
10	S8	150/161 (93%)	128 (85%)	22 (15%)	3 14
10	s8	150/161 (93%)	126 (84%)	24 (16%)	2 12
11	S9	158/158 (100%)	121 (77%)	37 (23%)	1 4
11	s9	158/158 (100%)	121 (77%)	37 (23%)	1 4
12	C0	77/91 (85%)	61 (79%)	16 (21%)	1 5
12	c0	73/91 (80%)	59 (81%)	14 (19%)	1 7
13	C1	129/137 (94%)	103 (80%)	26 (20%)	1 5
13	c1	129/137 (94%)	101 (78%)	28 (22%)	1 5
14	C2	88/100 (88%)	67 (76%)	21 (24%)	1 3
14	c2	88/100 (88%)	64 (73%)	24 (27%)	0 1
15	C3	127/127 (100%)	99 (78%)	28 (22%)	1 4
15	c3	127/127 (100%)	99 (78%)	28 (22%)	1 4
16	C4	81/97 (84%)	61 (75%)	20 (25%)	1 2
16	c4	97/97 (100%)	74 (76%)	23 (24%)	1 3
17	C5	101/118 (86%)	83 (82%)	18 (18%)	2 9
17	c5	103/118 (87%)	83 (81%)	20 (19%)	1 7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
18	C6	117/118 (99%)	89 (76%)	28 (24%)	1 3
18	c6	118/118 (100%)	94 (80%)	24 (20%)	1 5
19	C7	94/124 (76%)	71 (76%)	23 (24%)	1 3
19	c7	92/124 (74%)	72 (78%)	20 (22%)	1 5
20	C8	128/128 (100%)	104 (81%)	24 (19%)	1 7
20	c8	128/128 (100%)	102 (80%)	26 (20%)	1 5
21	C9	115/115 (100%)	85 (74%)	30 (26%)	0 2
21	c9	115/115 (100%)	92 (80%)	23 (20%)	1 6
22	D0	100/103 (97%)	76 (76%)	24 (24%)	1 3
22	d0	103/103 (100%)	74 (72%)	29 (28%)	0 1
23	D1	74/74 (100%)	59 (80%)	15 (20%)	1 5
23	d1	74/74 (100%)	55 (74%)	19 (26%)	0 2
24	D2	110/110 (100%)	84 (76%)	26 (24%)	1 3
24	d2	110/110 (100%)	91 (83%)	19 (17%)	2 9
25	D3	119/119 (100%)	94 (79%)	25 (21%)	1 5
25	d3	119/119 (100%)	98 (82%)	21 (18%)	2 9
26	D4	112/112 (100%)	89 (80%)	23 (20%)	1 5
26	d4	112/112 (100%)	94 (84%)	18 (16%)	2 11
27	D5	61/61 (100%)	45 (74%)	16 (26%)	0 2
27	d5	61/61 (100%)	47 (77%)	14 (23%)	1 4
28	D6	83/83 (100%)	61 (74%)	22 (26%)	0 2
28	d6	83/83 (100%)	68 (82%)	15 (18%)	2 8
29	D7	70/70 (100%)	60 (86%)	10 (14%)	3 14
29	d7	70/70 (100%)	56 (80%)	14 (20%)	1 6
30	D8	56/56 (100%)	41 (73%)	15 (27%)	0 2
30	d8	56/56 (100%)	42 (75%)	14 (25%)	0 2
31	D9	47/47 (100%)	36 (77%)	11 (23%)	1 4
31	d9	47/47 (100%)	36 (77%)	11 (23%)	1 4
32	E0	51/53 (96%)	42 (82%)	9 (18%)	2 9
32	e0	53/53 (100%)	43 (81%)	10 (19%)	1 7
33	E1	62/66 (94%)	45 (73%)	17 (27%)	0 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
33	e1	66/66 (100%)	46 (70%)	20 (30%)	0 0
34	SR	259/261 (99%)	226 (87%)	33 (13%)	4 18
34	sR	259/261 (99%)	230 (89%)	29 (11%)	6 24
35	SM	97/122 (80%)	75 (77%)	22 (23%)	1 4
39	L2	193/194 (100%)	160 (83%)	33 (17%)	2 10
39	l2	192/194 (99%)	147 (77%)	45 (23%)	1 4
40	L3	320/322 (99%)	248 (78%)	72 (22%)	1 4
40	l3	319/322 (99%)	256 (80%)	63 (20%)	1 6
41	L4	288/288 (100%)	230 (80%)	58 (20%)	1 5
41	l4	288/288 (100%)	225 (78%)	63 (22%)	1 4
42	L5	244/244 (100%)	187 (77%)	57 (23%)	1 4
42	l5	243/244 (100%)	200 (82%)	43 (18%)	2 9
43	L6	134/153 (88%)	113 (84%)	21 (16%)	2 12
43	l6	135/153 (88%)	114 (84%)	21 (16%)	2 12
44	L7	186/187 (100%)	156 (84%)	30 (16%)	2 11
44	l7	187/187 (100%)	154 (82%)	33 (18%)	2 9
45	L8	187/191 (98%)	158 (84%)	29 (16%)	2 12
46	L9	171/171 (100%)	128 (75%)	43 (25%)	0 2
46	l9	171/171 (100%)	132 (77%)	39 (23%)	1 4
47	M0	177/187 (95%)	147 (83%)	30 (17%)	2 10
47	m0	179/187 (96%)	137 (76%)	42 (24%)	1 3
48	M1	147/147 (100%)	109 (74%)	38 (26%)	0 2
48	m1	147/147 (100%)	118 (80%)	29 (20%)	1 6
49	M3	154/154 (100%)	126 (82%)	28 (18%)	2 8
49	m3	154/154 (100%)	133 (86%)	21 (14%)	3 16
50	M4	107/108 (99%)	90 (84%)	17 (16%)	2 12
50	m4	108/108 (100%)	88 (82%)	20 (18%)	1 8
51	M5	175/175 (100%)	141 (81%)	34 (19%)	1 7
51	m5	175/175 (100%)	145 (83%)	30 (17%)	2 10
52	M6	160/160 (100%)	125 (78%)	35 (22%)	1 4
52	m6	160/160 (100%)	126 (79%)	34 (21%)	1 5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
53	M7	140/145 (97%)	109 (78%)	31 (22%)	1 4
53	m7	125/145 (86%)	92 (74%)	33 (26%)	0 2
54	M8	150/150 (100%)	125 (83%)	25 (17%)	2 10
54	m8	150/150 (100%)	118 (79%)	32 (21%)	1 5
55	M9	153/153 (100%)	125 (82%)	28 (18%)	2 8
55	m9	153/153 (100%)	126 (82%)	27 (18%)	2 9
56	N0	156/156 (100%)	115 (74%)	41 (26%)	0 2
56	n0	156/156 (100%)	117 (75%)	39 (25%)	0 2
57	N1	136/136 (100%)	100 (74%)	36 (26%)	0 2
57	n1	136/136 (100%)	106 (78%)	30 (22%)	1 4
58	N2	87/87 (100%)	70 (80%)	17 (20%)	1 6
58	n2	85/87 (98%)	68 (80%)	17 (20%)	1 6
59	N3	104/104 (100%)	82 (79%)	22 (21%)	1 5
59	n3	104/104 (100%)	86 (83%)	18 (17%)	2 9
60	N4	57/86 (66%)	49 (86%)	8 (14%)	3 15
61	N5	104/105 (99%)	74 (71%)	30 (29%)	0 1
61	n5	104/105 (99%)	80 (77%)	24 (23%)	1 4
62	N6	109/109 (100%)	84 (77%)	25 (23%)	1 4
62	n6	109/109 (100%)	80 (73%)	29 (27%)	0 2
63	N7	115/115 (100%)	93 (81%)	22 (19%)	1 7
63	n7	115/115 (100%)	94 (82%)	21 (18%)	2 8
64	N8	118/118 (100%)	96 (81%)	22 (19%)	1 8
64	n8	118/118 (100%)	90 (76%)	28 (24%)	1 3
65	N9	46/46 (100%)	36 (78%)	10 (22%)	1 5
65	n9	46/46 (100%)	36 (78%)	10 (22%)	1 5
66	O0	81/84 (96%)	63 (78%)	18 (22%)	1 4
66	o0	84/84 (100%)	65 (77%)	19 (23%)	1 4
67	O1	92/96 (96%)	76 (83%)	16 (17%)	2 9
67	o1	94/96 (98%)	71 (76%)	23 (24%)	1 3
68	O2	109/109 (100%)	95 (87%)	14 (13%)	4 18
68	o2	109/109 (100%)	87 (80%)	22 (20%)	1 5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
69	O3	90/90 (100%)	75 (83%)	15 (17%)	2 10
69	o3	90/90 (100%)	80 (89%)	10 (11%)	6 24
70	O4	95/95 (100%)	77 (81%)	18 (19%)	1 7
70	o4	95/95 (100%)	79 (83%)	16 (17%)	2 10
71	O5	104/104 (100%)	81 (78%)	23 (22%)	1 4
71	o5	103/104 (99%)	87 (84%)	16 (16%)	2 12
72	O6	81/81 (100%)	58 (72%)	23 (28%)	0 1
72	o6	80/81 (99%)	56 (70%)	24 (30%)	0 1
73	O7	70/70 (100%)	60 (86%)	10 (14%)	3 14
73	o7	70/70 (100%)	56 (80%)	14 (20%)	1 6
74	O8	68/68 (100%)	48 (71%)	20 (29%)	0 1
74	o8	67/68 (98%)	50 (75%)	17 (25%)	0 2
75	O9	45/45 (100%)	37 (82%)	8 (18%)	2 9
75	o9	45/45 (100%)	37 (82%)	8 (18%)	2 9
76	Q0	47/47 (100%)	40 (85%)	7 (15%)	3 13
76	q0	47/47 (100%)	37 (79%)	10 (21%)	1 5
77	Q1	23/23 (100%)	16 (70%)	7 (30%)	0 0
77	q1	23/23 (100%)	16 (70%)	7 (30%)	0 0
78	Q2	90/90 (100%)	71 (79%)	19 (21%)	1 5
78	q2	90/90 (100%)	70 (78%)	20 (22%)	1 4
79	Q3	71/71 (100%)	56 (79%)	15 (21%)	1 5
79	q3	71/71 (100%)	53 (75%)	18 (25%)	0 2
80	sM	54/103 (52%)	43 (80%)	11 (20%)	1 5
81	l8	177/190 (93%)	141 (80%)	36 (20%)	1 5
83	n4	100/114 (88%)	86 (86%)	14 (14%)	3 15
84	p0	105/254 (41%)	78 (74%)	27 (26%)	0 2
All	All	18725/19364 (97%)	14886 (80%)	3839 (20%)	1 5

All (3839) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	7	PHE
2	S0	24	LEU

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Mol	Chain	Res	Type
2	S0	27	ARG
2	S0	30	GLN
2	S0	34	GLU
2	S0	37	VAL
2	S0	43	ASP
2	S0	47	VAL
2	S0	50	VAL
2	S0	52	LYS
2	S0	59	LEU
2	S0	62	ARG
2	S0	84	ARG
2	S0	87	LEU
2	S0	88	LYS
2	S0	96	THR
2	S0	101	ARG
2	S0	111	ILE
2	S0	119	ARG
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	162	CYS
2	S0	167	LYS
2	S0	172	LEU
2	S0	177	LEU
2	S0	184	LEU
2	S0	185	ARG
2	S0	188	LEU
2	S0	196	SER
2	S0	197	ILE
3	S1	20	VAL
3	S1	21	VAL
3	S1	29	TRP
3	S1	30	PHE
3	S1	39	GLU
3	S1	42	ASN
3	S1	46	THR
3	S1	47	LEU
3	S1	51	SER
3	S1	61	LEU

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Mol	Chain	Res	Type
3	S1	62	LYS
3	S1	65	VAL
3	S1	66	VAL
3	S1	70	LEU
3	S1	73	LEU
3	S1	77	GLU
3	S1	78	ASP
3	S1	81	PHE
3	S1	83	LYS
3	S1	85	LYS
3	S1	95	ASN
3	S1	97	LEU
3	S1	101	HIS
3	S1	105	PHE
3	S1	110	LEU
3	S1	125	VAL
3	S1	135	LEU
3	S1	150	VAL
3	S1	154	SER
3	S1	170	GLU
3	S1	174	LYS
3	S1	177	GLN
3	S1	180	THR
3	S1	181	LEU
3	S1	184	LEU
3	S1	191	GLU
3	S1	193	ILE
3	S1	202	LYS
3	S1	214	LYS
3	S1	215	VAL
3	S1	218	LEU
3	S1	220	GLN
3	S1	229	MET
4	S2	41	LEU
4	S2	53	ILE
4	S2	54	GLU
4	S2	55	GLU
4	S2	58	LEU
4	S2	69	ILE
4	S2	72	LEU
4	S2	73	LEU
4	S2	76	LEU

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Mol	Chain	Res	Type
4	S2	77	GLN
4	S2	80	VAL
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	106	ASP
4	S2	107	SER
4	S2	111	VAL
4	S2	130	ILE
4	S2	134	LEU
4	S2	137	ILE
4	S2	139	ILE
4	S2	141	ARG
4	S2	146	THR
4	S2	148	LEU
4	S2	158	THR
4	S2	170	ILE
4	S2	174	ARG
4	S2	185	LYS
4	S2	207	LEU
4	S2	221	THR
4	S2	222	TYR
4	S2	225	LEU
4	S2	226	THR
4	S2	237	VAL
4	S2	242	ILE
4	S2	244	SER
4	S2	245	ASP
5	S3	4	LEU
5	S3	7	LYS
5	S3	21	LEU
5	S3	23	GLU
5	S3	35	SER
5	S3	39	VAL
5	S3	44	THR
5	S3	62	ASN
5	S3	65	ARG
5	S3	66	ILE
5	S3	84	ILE

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Mol	Chain	Res	Type
5	S3	89	GLU
5	S3	91	VAL
5	S3	92	GLN
5	S3	93	ASP
5	S3	94	ARG
5	S3	103	GLU
5	S3	105	MET
5	S3	111	ASN
5	S3	113	LEU
5	S3	117	ARG
5	S3	120	TYR
5	S3	128	GLU
5	S3	141	LYS
5	S3	142	LEU
5	S3	143	ARG
5	S3	151	LYS
5	S3	158	ILE
5	S3	168	ILE
5	S3	172	THR
5	S3	175	VAL
5	S3	176	LEU
5	S3	178	ARG
5	S3	179	GLN
5	S3	182	LEU
5	S3	190	ARG
5	S3	202	LEU
5	S3	207	THR
5	S3	212	LYS
5	S3	217	ILE
5	S3	222	VAL
6	S4	6	LYS
6	S4	7	LYS
6	S4	9	LEU
6	S4	12	LEU
6	S4	23	LEU
6	S4	38	LEU
6	S4	42	LEU
6	S4	45	ILE
6	S4	54	TYR
6	S4	62	LYS
6	S4	67	GLN
6	S4	70	VAL

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Mol	Chain	Res	Type
6	S4	77	ARG
6	S4	92	LEU
6	S4	95	THR
6	S4	113	ARG
6	S4	115	THR
6	S4	116	ASP
6	S4	123	LEU
6	S4	126	VAL
6	S4	129	VAL
6	S4	131	LEU
6	S4	133	LYS
6	S4	139	VAL
6	S4	140	VAL
6	S4	148	ARG
6	S4	158	ASP
6	S4	160	VAL
6	S4	164	LEU
6	S4	166	SER
6	S4	180	LEU
6	S4	181	VAL
6	S4	187	ARG
6	S4	192	ILE
6	S4	197	HIS
6	S4	198	LYS
6	S4	206	ASP
6	S4	211	LYS
6	S4	215	ASP
6	S4	227	VAL
6	S4	231	GLN
6	S4	242	LYS
6	S4	246	LEU
6	S4	258	GLN
6	S4	259	GLN
7	S5	24	VAL
7	S5	25	LEU
7	S5	34	GLN
7	S5	38	THR
7	S5	41	LYS
7	S5	43	PHE
7	S5	45	LYS
7	S5	51	VAL
7	S5	53	VAL

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Mol	Chain	Res	Type
7	S5	79	ASN
7	S5	84	LYS
7	S5	86	GLN
7	S5	89	ILE
7	S5	93	LEU
7	S5	98	MET
7	S5	104	ASN
7	S5	123	VAL
7	S5	126	ASP
7	S5	130	ILE
7	S5	131	GLN
7	S5	139	ASN
7	S5	146	THR
7	S5	147	THR
7	S5	149	VAL
7	S5	156	ARG
7	S5	162	VAL
7	S5	170	GLN
7	S5	194	LEU
7	S5	203	LYS
7	S5	216	GLU
7	S5	223	SER
7	S5	225	ARG
8	S6	5	ILE
8	S6	14	LYS
8	S6	19	ASP
8	S6	21	GLU
8	S6	58	LYS
8	S6	69	LEU
8	S6	76	LEU
8	S6	78	THR
8	S6	79	LYS
8	S6	81	VAL
8	S6	82	SER
8	S6	97	VAL
8	S6	108	VAL
8	S6	109	LEU
8	S6	113	ILE
8	S6	126	ASP
8	S6	127	THR
8	S6	128	THR
8	S6	129	VAL

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Mol	Chain	Res	Type
8	S6	133	LEU
8	S6	144	PHE
8	S6	151	ASP
8	S6	155	ASP
8	S6	169	TYR
8	S6	174	LYS
8	S6	177	ARG
8	S6	193	LEU
8	S6	211	LEU
8	S6	223	LYS
9	S7	9	LEU
9	S7	25	VAL
9	S7	29	ASN
9	S7	30	SER
9	S7	34	LEU
9	S7	37	GLU
9	S7	46	ILE
9	S7	49	ILE
9	S7	50	ASP
9	S7	60	ILE
9	S7	67	LEU
9	S7	70	PHE
9	S7	77	LEU
9	S7	79	ARG
9	S7	85	PHE
9	S7	87	ASP
9	S7	91	ILE
9	S7	97	ARG
9	S7	109	VAL
9	S7	114	ARG
9	S7	116	ARG
9	S7	118	LEU
9	S7	126	LEU
9	S7	136	VAL
9	S7	144	VAL
9	S7	148	LYS
9	S7	159	VAL
9	S7	166	LEU
9	S7	167	GLU
9	S7	168	SER
9	S7	181	ILE
9	S7	185	ILE

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Mol	Chain	Res	Type
9	S7	187	SER
10	S8	7	SER
10	S8	8	ARG
10	S8	18	ARG
10	S8	21	PHE
10	S8	26	LYS
10	S8	29	LEU
10	S8	36	THR
10	S8	58	LEU
10	S8	62	THR
10	S8	66	SER
10	S8	92	ARG
10	S8	121	LEU
10	S8	137	LYS
10	S8	151	LYS
10	S8	152	ILE
10	S8	155	SER
10	S8	158	SER
10	S8	168	CYS
10	S8	184	LEU
10	S8	185	GLU
10	S8	196	LEU
10	S8	199	LYS
11	S9	3	ARG
11	S9	7	THR
11	S9	9	SER
11	S9	14	THR
11	S9	16	LYS
11	S9	17	ARG
11	S9	28	LEU
11	S9	39	LYS
11	S9	46	SER
11	S9	49	LEU
11	S9	60	LEU
11	S9	61	THR
11	S9	78	ARG
11	S9	82	ARG
11	S9	87	SER
11	S9	89	ASP
11	S9	92	LYS
11	S9	93	LEU
11	S9	96	VAL

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Mol	Chain	Res	Type
11	S9	97	LEU
11	S9	99	LEU
11	S9	101	VAL
11	S9	105	LEU
11	S9	110	GLN
11	S9	118	LEU
11	S9	121	SER
11	S9	122	VAL
11	S9	130	THR
11	S9	134	ILE
11	S9	138	LYS
11	S9	141	VAL
11	S9	149	ARG
11	S9	150	LEU
11	S9	156	ILE
11	S9	157	ASP
11	S9	161	THR
11	S9	171	ARG
12	C0	1	MET
12	C0	18	GLU
12	C0	20	VAL
12	C0	22	VAL
12	C0	24	LYS
12	C0	34	GLU
12	C0	40	LEU
12	C0	46	LEU
12	C0	49	LEU
12	C0	52	LYS
12	C0	55	VAL
12	C0	56	LYS
12	C0	71	GLU
12	C0	76	LEU
12	C0	81	ASN
12	C0	82	LEU
13	C1	2	SER
13	C1	5	LEU
13	C1	8	GLN
13	C1	21	ASN
13	C1	27	THR
13	C1	29	LYS
13	C1	40	LEU
13	C1	43	LYS

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Mol	Chain	Res	Type
13	C1	44	THR
13	C1	56	LYS
13	C1	67	ARG
13	C1	70	ILE
13	C1	74	THR
13	C1	76	VAL
13	C1	80	MET
13	C1	109	VAL
13	C1	112	SER
13	C1	118	GLN
13	C1	119	VAL
13	C1	123	VAL
13	C1	125	VAL
13	C1	127	GLN
13	C1	128	CYS
13	C1	140	VAL
13	C1	141	LYS
13	C1	143	SER
14	C2	28	LEU
14	C2	36	LEU
14	C2	37	VAL
14	C2	43	ARG
14	C2	45	LEU
14	C2	46	ARG
14	C2	50	LYS
14	C2	52	LEU
14	C2	61	VAL
14	C2	62	LEU
14	C2	65	SER
14	C2	66	VAL
14	C2	71	ILE
14	C2	74	LEU
14	C2	83	GLU
14	C2	89	ILE
14	C2	90	LYS
14	C2	103	LEU
14	C2	129	GLU
14	C2	132	GLU
14	C2	139	HIS
15	C3	3	ARG
15	C3	9	LYS
15	C3	16	ILE

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Mol	Chain	Res	Type
15	C3	27	LYS
15	C3	31	GLU
15	C3	33	VAL
15	C3	39	LYS
15	C3	45	LEU
15	C3	52	VAL
15	C3	64	ARG
15	C3	65	VAL
15	C3	66	ILE
15	C3	73	ARG
15	C3	75	LEU
15	C3	83	GLU
15	C3	88	LEU
15	C3	94	LYS
15	C3	102	LEU
15	C3	103	GLU
15	C3	105	ASN
15	C3	115	LEU
15	C3	120	SER
15	C3	125	LEU
15	C3	134	VAL
15	C3	142	GLU
15	C3	145	THR
15	C3	150	VAL
15	C3	151	ASN
16	C4	13	VAL
16	C4	16	VAL
16	C4	24	ASN
16	C4	29	HIS
16	C4	30	VAL
16	C4	39	ILE
16	C4	43	THR
16	C4	48	VAL
16	C4	51	ASP
16	C4	81	VAL
16	C4	92	LYS
16	C4	93	THR
16	C4	102	LEU
16	C4	103	ARG
16	C4	108	SER
16	C4	114	ARG
16	C4	123	SER

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Mol	Chain	Res	Type
16	C4	132	ARG
16	C4	136	ARG
16	C4	137	LEU
17	C5	11	VAL
17	C5	22	LEU
17	C5	26	LEU
17	C5	27	GLU
17	C5	28	MET
17	C5	34	VAL
17	C5	35	LYS
17	C5	44	ARG
17	C5	47	ARG
17	C5	49	MET
17	C5	50	THR
17	C5	52	LYS
17	C5	84	ILE
17	C5	86	VAL
17	C5	89	MET
17	C5	110	GLU
17	C5	121	ILE
17	C5	128	HIS
18	C6	4	VAL
18	C6	14	LYS
18	C6	17	THR
18	C6	26	LYS
18	C6	28	LEU
18	C6	42	GLU
18	C6	43	ILE
18	C6	44	LEU
18	C6	47	LYS
18	C6	48	VAL
18	C6	52	LEU
18	C6	53	LEU
18	C6	54	LEU
18	C6	57	LEU
18	C6	66	ARG
18	C6	68	ARG
18	C6	69	VAL
18	C6	76	SER
18	C6	97	VAL
18	C6	98	ASP
18	C6	106	LYS

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Mol	Chain	Res	Type
18	C6	116	LEU
18	C6	118	ILE
18	C6	121	SER
18	C6	123	ARG
18	C6	128	LYS
18	C6	136	SER
18	C6	137	ARG
19	C7	5	ARG
19	C7	25	THR
19	C7	26	LEU
19	C7	29	GLN
19	C7	30	THR
19	C7	34	LEU
19	C7	37	GLU
19	C7	38	ILE
19	C7	40	THR
19	C7	46	LEU
19	C7	49	LYS
19	C7	54	THR
19	C7	62	GLN
19	C7	69	ILE
19	C7	71	PHE
19	C7	72	LYS
19	C7	83	GLN
19	C7	85	VAL
19	C7	88	VAL
19	C7	105	GLN
19	C7	113	LEU
19	C7	115	LEU
19	C7	119	LEU
20	C8	3	LEU
20	C8	5	VAL
20	C8	8	GLN
20	C8	11	PHE
20	C8	13	HIS
20	C8	14	ILE
20	C8	15	LEU
20	C8	18	LEU
20	C8	26	ILE
20	C8	28	ILE
20	C8	53	ASP
20	C8	54	LEU

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Mol	Chain	Res	Type
20	C8	60	GLU
20	C8	61	LEU
20	C8	71	GLN
20	C8	74	GLN
20	C8	80	LYS
20	C8	86	LEU
20	C8	92	ILE
20	C8	93	THR
20	C8	97	ASP
20	C8	132	ARG
20	C8	133	VAL
20	C8	143	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	29	GLU
21	C9	35	ASP
21	C9	36	ILE
21	C9	41	SER
21	C9	61	VAL
21	C9	63	ARG
21	C9	67	MET
21	C9	70	GLN
21	C9	71	VAL
21	C9	75	LYS
21	C9	79	LEU
21	C9	86	ARG
21	C9	94	ILE
21	C9	103	LYS
21	C9	104	VAL
21	C9	115	GLU
21	C9	117	SER
21	C9	122	ARG
21	C9	125	SER
21	C9	126	GLU
21	C9	131	ASP
21	C9	134	ARG
21	C9	135	ILE
21	C9	144	GLU

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Mol	Chain	Res	Type
22	D0	15	GLN
22	D0	18	GLN
22	D0	22	ILE
22	D0	23	ARG
22	D0	27	THR
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	61	LYS
22	D0	70	THR
22	D0	72	ASN
22	D0	74	GLU
22	D0	81	THR
22	D0	89	ARG
22	D0	97	VAL
22	D0	103	ILE
22	D0	108	ILE
22	D0	121	ASN
23	D1	1	MET
23	D1	3	ASN
23	D1	5	LYS
23	D1	7	GLN
23	D1	11	LEU
23	D1	32	VAL
23	D1	41	GLU
23	D1	60	ARG
23	D1	62	ARG
23	D1	68	SER
23	D1	69	LEU
23	D1	75	ASN
23	D1	78	LEU
23	D1	80	LYS
23	D1	84	SER
24	D2	4	SER
24	D2	7	LEU
24	D2	12	ASN

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Mol	Chain	Res	Type
24	D2	15	ASN
24	D2	22	LYS
24	D2	24	GLN
24	D2	30	SER
24	D2	42	GLN
24	D2	43	LYS
24	D2	53	ILE
24	D2	56	HIS
24	D2	65	LEU
24	D2	66	ASN
24	D2	74	VAL
24	D2	81	VAL
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	122	SER
24	D2	125	ILE
25	D3	7	ARG
25	D3	9	LEU
25	D3	16	ARG
25	D3	19	ARG
25	D3	26	GLU
25	D3	30	LYS
25	D3	33	LEU
25	D3	40	SER
25	D3	47	SER
25	D3	73	ARG
25	D3	78	LYS
25	D3	83	VAL
25	D3	84	THR
25	D3	94	ASN
25	D3	103	LEU
25	D3	107	PHE
25	D3	110	LYS
25	D3	114	LYS
25	D3	117	ILE

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Mol	Chain	Res	Type
25	D3	131	SER
25	D3	132	LEU
25	D3	133	LEU
25	D3	138	GLU
25	D3	140	LYS
25	D3	144	ARG
26	D4	2	SER
26	D4	8	ARG
26	D4	14	SER
26	D4	17	LEU
26	D4	35	VAL
26	D4	46	GLU
26	D4	47	VAL
26	D4	51	GLU
26	D4	57	VAL
26	D4	61	ARG
26	D4	62	THR
26	D4	81	GLU
26	D4	84	LYS
26	D4	96	LEU
26	D4	99	LYS
26	D4	100	VAL
26	D4	102	LYS
26	D4	104	SER
26	D4	105	ARG
26	D4	121	THR
26	D4	123	LYS
26	D4	127	LYS
26	D4	128	LYS
27	D5	40	VAL
27	D5	42	LEU
27	D5	62	VAL
27	D5	63	SER
27	D5	67	ASP
27	D5	69	LEU
27	D5	71	ILE
27	D5	75	LEU
27	D5	77	ARG
27	D5	78	ILE
27	D5	85	LYS
27	D5	90	LYS
27	D5	93	SER

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Mol	Chain	Res	Type
27	D5	95	HIS
27	D5	96	SER
27	D5	100	ILE
28	D6	4	LYS
28	D6	12	LYS
28	D6	15	ARG
28	D6	36	ILE
28	D6	41	ILE
28	D6	44	ILE
28	D6	45	VAL
28	D6	61	GLU
28	D6	64	LEU
28	D6	66	LYS
28	D6	69	ASN
28	D6	70	LYS
28	D6	74	CYS
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	87	ARG
28	D6	89	ARG
28	D6	90	GLU
29	D7	3	LEU
29	D7	4	VAL
29	D7	20	LYS
29	D7	26	GLN
29	D7	33	LEU
29	D7	34	ASP
29	D7	36	LYS
29	D7	41	LEU
29	D7	60	SER
29	D7	61	THR
30	D8	8	THR
30	D8	13	ILE
30	D8	15	VAL
30	D8	19	THR
30	D8	31	GLU
30	D8	32	PHE
30	D8	33	LEU

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Mol	Chain	Res	Type
30	D8	34	GLU
30	D8	35	ASP
30	D8	38	ARG
30	D8	39	THR
30	D8	44	VAL
30	D8	48	VAL
30	D8	57	MET
30	D8	58	GLU
31	D9	4	GLU
31	D9	6	VAL
31	D9	8	PHE
31	D9	9	SER
31	D9	12	ARG
31	D9	23	VAL
31	D9	25	SER
31	D9	30	LEU
31	D9	32	ARG
31	D9	36	LEU
31	D9	40	ARG
32	E0	14	VAL
32	E0	20	LYS
32	E0	28	LYS
32	E0	39	LEU
32	E0	42	ARG
32	E0	48	THR
32	E0	49	LEU
32	E0	50	VAL
32	E0	56	MET
33	E1	84	VAL
33	E1	86	THR
33	E1	89	LYS
33	E1	91	ILE
33	E1	93	HIS
33	E1	97	LYS
33	E1	98	VAL
33	E1	102	VAL
33	E1	111	GLU
33	E1	113	LYS
33	E1	120	GLU
33	E1	130	VAL
33	E1	137	ASP
33	E1	138	ARG

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Mol	Chain	Res	Type
33	E1	146	SER
33	E1	149	LYS
33	E1	151	ASN
34	SR	6	VAL
34	SR	10	ARG
34	SR	16	HIS
34	SR	29	GLN
34	SR	44	SER
34	SR	52	GLN
34	SR	59	ARG
34	SR	66	HIS
34	SR	76	ASP
34	SR	81	LEU
34	SR	108	SER
34	SR	109	ASP
34	SR	117	LYS
34	SR	118	LYS
34	SR	136	ILE
34	SR	141	LEU
34	SR	144	LEU
34	SR	157	VAL
34	SR	165	ASP
34	SR	184	ASN
34	SR	191	ASP
34	SR	199	ILE
34	SR	202	LEU
34	SR	219	GLU
34	SR	234	LEU
34	SR	238	ASP
34	SR	248	ASN
34	SR	268	GLN
34	SR	277	GLU
34	SR	292	LEU
34	SR	300	THR
34	SR	314	GLN
34	SR	316	MET
35	SM	24	GLU
35	SM	36	ASP
35	SM	41	SER
35	SM	48	ARG
35	SM	51	ARG
35	SM	61	ILE

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Mol	Chain	Res	Type
35	SM	64	LYS
35	SM	68	ARG
35	SM	69	ARG
35	SM	84	LYS
35	SM	86	ASN
35	SM	89	ARG
35	SM	91	THR
35	SM	96	ARG
35	SM	97	THR
35	SM	100	THR
35	SM	101	ASP
35	SM	103	LYS
35	SM	105	LYS
35	SM	116	GLU
35	SM	131	ILE
35	SM	139	GLU
39	L2	10	LYS
39	L2	23	ARG
39	L2	30	ARG
39	L2	44	ILE
39	L2	45	VAL
39	L2	48	ILE
39	L2	70	ARG
39	L2	71	LEU
39	L2	74	GLU
39	L2	84	THR
39	L2	88	ILE
39	L2	101	VAL
39	L2	104	LEU
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	169	ILE
39	L2	177	LYS
39	L2	179	LEU
39	L2	180	LEU
39	L2	191	LEU
39	L2	202	VAL

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Mol	Chain	Res	Type
39	L2	204	MET
39	L2	225	ILE
39	L2	227	ARG
39	L2	230	VAL
39	L2	231	SER
39	L2	247	ARG
39	L2	250	GLN
40	L3	2	SER
40	L3	7	GLU
40	L3	17	LEU
40	L3	19	ARG
40	L3	24	SER
40	L3	25	ILE
40	L3	30	LYS
40	L3	37	ARG
40	L3	39	LYS
40	L3	41	VAL
40	L3	53	MET
40	L3	54	THR
40	L3	55	THR
40	L3	56	ILE
40	L3	66	LYS
40	L3	69	LYS
40	L3	73	VAL
40	L3	85	VAL
40	L3	103	THR
40	L3	110	LEU
40	L3	114	VAL
40	L3	116	ARG
40	L3	139	GLN
40	L3	146	ARG
40	L3	148	LEU
40	L3	153	LYS
40	L3	156	SER
40	L3	160	VAL
40	L3	162	VAL
40	L3	169	THR
40	L3	183	LEU
40	L3	188	ILE
40	L3	192	VAL
40	L3	196	ARG
40	L3	202	THR

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Mol	Chain	Res	Type
40	L3	206	ASP
40	L3	211	GLN
40	L3	212	ASN
40	L3	213	GLU
40	L3	214	MET
40	L3	235	THR
40	L3	236	LYS
40	L3	238	LEU
40	L3	247	ARG
40	L3	252	ILE
40	L3	260	VAL
40	L3	263	SER
40	L3	275	ARG
40	L3	277	SER
40	L3	282	ILE
40	L3	284	ARG
40	L3	300	ARG
40	L3	304	THR
40	L3	305	ILE
40	L3	312	VAL
40	L3	319	ASN
40	L3	320	ASP
40	L3	323	MET
40	L3	324	VAL
40	L3	328	ILE
40	L3	335	ILE
40	L3	337	THR
40	L3	343	TYR
40	L3	346	THR
40	L3	347	SER
40	L3	352	GLU
40	L3	354	VAL
40	L3	364	LYS
40	L3	372	THR
40	L3	382	THR
40	L3	385	LYS
40	L3	387	LEU
41	L4	2	SER
41	L4	18	ASN
41	L4	20	LEU
41	L4	22	LEU
41	L4	25	VAL

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Mol	Chain	Res	Type
41	L4	40	THR
41	L4	69	ARG
41	L4	71	VAL
41	L4	74	ILE
41	L4	93	MET
41	L4	98	ARG
41	L4	99	MET
41	L4	108	LYS
41	L4	110	ASN
41	L4	112	LYS
41	L4	122	THR
41	L4	124	SER
41	L4	133	SER
41	L4	135	VAL
41	L4	138	ARG
41	L4	145	ILE
41	L4	150	LEU
41	L4	152	VAL
41	L4	156	LEU
41	L4	170	LYS
41	L4	172	VAL
41	L4	177	ASP
41	L4	179	LEU
41	L4	185	LYS
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	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	270	SER
41	L4	287	THR
41	L4	288	ARG
41	L4	306	THR

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Mol	Chain	Res	Type
41	L4	307	GLN
41	L4	311	HIS
41	L4	313	LEU
41	L4	327	LEU
41	L4	338	LYS
41	L4	339	LEU
41	L4	343	LYS
41	L4	345	GLU
41	L4	349	THR
41	L4	350	LYS
41	L4	354	VAL
42	L5	4	GLN
42	L5	5	LYS
42	L5	8	LYS
42	L5	22	ARG
42	L5	23	ARG
42	L5	32	GLN
42	L5	35	ARG
42	L5	41	LYS
42	L5	61	ILE
42	L5	64	ILE
42	L5	67	SER
42	L5	69	ILE
42	L5	75	LEU
42	L5	81	HIS
42	L5	85	ARG
42	L5	92	LEU
42	L5	93	THR
42	L5	105	ILE
42	L5	112	LYS
42	L5	113	LEU
42	L5	115	LEU
42	L5	122	VAL
42	L5	123	GLU
42	L5	128	GLU
42	L5	131	LEU
42	L5	137	ASP
42	L5	140	ARG
42	L5	144	VAL
42	L5	146	LEU
42	L5	148	ILE
42	L5	151	GLN

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Mol	Chain	Res	Type
42	L5	152	ARG
42	L5	154	THR
42	L5	155	THR
42	L5	158	ARG
42	L5	163	LEU
42	L5	164	LYS
42	L5	177	GLU
42	L5	178	ASN
42	L5	190	ILE
42	L5	211	LEU
42	L5	213	ASP
42	L5	216	GLU
42	L5	217	GLU
42	L5	220	SER
42	L5	222	LEU
42	L5	227	LEU
42	L5	232	ASP
42	L5	234	ASP
42	L5	236	LEU
42	L5	242	SER
42	L5	257	GLU
42	L5	261	THR
42	L5	263	GLU
42	L5	273	ARG
42	L5	277	LEU
42	L5	279	LYS
43	L6	2	SER
43	L6	5	LYS
43	L6	8	LYS
43	L6	21	THR
43	L6	23	LYS
43	L6	35	VAL
43	L6	52	VAL
43	L6	64	LEU
43	L6	65	ILE
43	L6	78	ARG
43	L6	79	VAL
43	L6	84	VAL
43	L6	89	THR
43	L6	93	VAL
43	L6	98	VAL
43	L6	129	GLU

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Mol	Chain	Res	Type
43	L6	130	ILE
43	L6	134	ARG
43	L6	152	THR
43	L6	155	LEU
43	L6	164	SER
44	L7	24	GLU
44	L7	25	GLN
44	L7	39	GLU
44	L7	40	LYS
44	L7	45	LEU
44	L7	46	GLU
44	L7	63	ILE
44	L7	80	GLN
44	L7	83	LEU
44	L7	84	VAL
44	L7	87	VAL
44	L7	88	ARG
44	L7	92	ILE
44	L7	93	ASN
44	L7	108	LEU
44	L7	118	LYS
44	L7	124	LEU
44	L7	145	ARG
44	L7	158	LYS
44	L7	173	LEU
44	L7	175	LYS
44	L7	179	LEU
44	L7	182	ASP
44	L7	184	LEU
44	L7	189	ILE
44	L7	207	LEU
44	L7	211	SER
44	L7	225	GLN
44	L7	239	LEU
44	L7	240	VAL
45	L8	26	LEU
45	L8	27	THR
45	L8	41	GLN
45	L8	47	SER
45	L8	65	LEU
45	L8	66	SER
45	L8	74	THR

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Mol	Chain	Res	Type
45	L8	79	GLN
45	L8	81	THR
45	L8	84	ARG
45	L8	118	GLU
45	L8	132	VAL
45	L8	136	LEU
45	L8	150	LEU
45	L8	156	ASP
45	L8	163	VAL
45	L8	169	LEU
45	L8	180	VAL
45	L8	181	LYS
45	L8	183	LYS
45	L8	185	ARG
45	L8	190	VAL
45	L8	197	VAL
45	L8	203	VAL
45	L8	204	ARG
45	L8	227	ASP
45	L8	238	LEU
45	L8	241	LYS
45	L8	248	LYS
46	L9	1	MET
46	L9	2	LYS
46	L9	4	ILE
46	L9	5	GLN
46	L9	9	GLN
46	L9	18	VAL
46	L9	20	ILE
46	L9	22	SER
46	L9	28	VAL
46	L9	41	ILE
46	L9	44	THR
46	L9	48	VAL
46	L9	50	ASN
46	L9	52	LEU
46	L9	57	VAL
46	L9	62	ARG
46	L9	65	VAL
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR

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Mol	Chain	Res	Type
46	L9	82	VAL
46	L9	92	TYR
46	L9	93	VAL
46	L9	104	VAL
46	L9	107	ASP
46	L9	126	VAL
46	L9	132	VAL
46	L9	134	ILE
46	L9	140	VAL
46	L9	151	VAL
46	L9	152	GLU
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	166	ARG
46	L9	170	LYS
46	L9	172	ILE
46	L9	173	ARG
46	L9	177	ASP
46	L9	189	GLU
46	L9	190	ASP
46	L9	191	LEU
47	M0	3	ARG
47	M0	12	GLN
47	M0	21	ARG
47	M0	26	VAL
47	M0	31	ILE
47	M0	32	ARG
47	M0	33	ILE
47	M0	39	LYS
47	M0	48	LEU
47	M0	52	LEU
47	M0	63	GLU
47	M0	74	LYS
47	M0	91	VAL
47	M0	102	MET
47	M0	129	VAL
47	M0	139	ARG
47	M0	142	ASP
47	M0	146	ASP
47	M0	156	ARG

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Mol	Chain	Res	Type
47	M0	163	GLN
47	M0	165	ILE
47	M0	166	ILE
47	M0	167	LEU
47	M0	177	ASP
47	M0	178	ARG
47	M0	184	LYS
47	M0	185	ARG
47	M0	203	LYS
47	M0	207	GLU
47	M0	215	GLU
48	M1	6	GLN
48	M1	7	ASN
48	M1	9	MET
48	M1	10	ARG
48	M1	12	LEU
48	M1	13	LYS
48	M1	17	LEU
48	M1	19	LEU
48	M1	20	ASN
48	M1	22	SER
48	M1	23	VAL
48	M1	31	THR
48	M1	40	LEU
48	M1	43	GLN
48	M1	44	THR
48	M1	46	VAL
48	M1	51	ARG
48	M1	80	LEU
48	M1	81	GLU
48	M1	82	ARG
48	M1	94	ARG
48	M1	95	ASN
48	M1	99	THR
48	M1	101	ASN
48	M1	106	ILE
48	M1	107	ASP
48	M1	110	ILE
48	M1	112	LEU
48	M1	114	ILE
48	M1	115	LYS
48	M1	120	ILE

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Mol	Chain	Res	Type
48	M1	138	VAL
48	M1	142	LYS
48	M1	143	ARG
48	M1	145	LYS
48	M1	148	VAL
48	M1	166	LYS
48	M1	171	VAL
49	M3	20	GLU
49	M3	42	ARG
49	M3	54	LEU
49	M3	55	ARG
49	M3	57	VAL
49	M3	58	VAL
49	M3	59	ARG
49	M3	67	ARG
49	M3	70	ARG
49	M3	80	VAL
49	M3	85	LEU
49	M3	107	GLU
49	M3	114	GLN
49	M3	117	LYS
49	M3	122	LYS
49	M3	124	ILE
49	M3	128	ARG
49	M3	131	LYS
49	M3	136	GLU
49	M3	144	THR
49	M3	154	VAL
49	M3	164	GLU
49	M3	168	ARG
49	M3	171	ARG
49	M3	180	ARG
49	M3	188	ARG
49	M3	190	LYS
49	M3	194	GLU
50	M4	5	SER
50	M4	8	LYS
50	M4	20	VAL
50	M4	21	VAL
50	M4	25	LYS
50	M4	38	ILE
50	M4	50	LYS

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Mol	Chain	Res	Type
50	M4	53	VAL
50	M4	58	ILE
50	M4	63	VAL
50	M4	69	THR
50	M4	72	LEU
50	M4	82	SER
50	M4	92	GLU
50	M4	93	LYS
50	M4	130	THR
50	M4	135	LEU
51	M5	10	LEU
51	M5	15	GLN
51	M5	18	VAL
51	M5	19	LEU
51	M5	22	LEU
51	M5	41	ARG
51	M5	50	ARG
51	M5	75	VAL
51	M5	80	THR
51	M5	85	THR
51	M5	92	LEU
51	M5	97	SER
51	M5	98	LEU
51	M5	104	GLU
51	M5	105	ARG
51	M5	106	VAL
51	M5	109	ARG
51	M5	117	ASN
51	M5	121	VAL
51	M5	123	GLN
51	M5	133	ILE
51	M5	138	GLN
51	M5	151	ILE
51	M5	155	VAL
51	M5	159	ARG
51	M5	167	THR
51	M5	170	LYS
51	M5	171	SER
51	M5	174	ILE
51	M5	182	ASN
51	M5	183	THR
51	M5	190	THR

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Mol	Chain	Res	Type
51	M5	196	THR
51	M5	204	LYS
52	M6	22	VAL
52	M6	25	LYS
52	M6	27	LEU
52	M6	33	ILE
52	M6	34	VAL
52	M6	58	LEU
52	M6	68	ARG
52	M6	78	ARG
52	M6	79	ILE
52	M6	84	LEU
52	M6	85	ARG
52	M6	88	VAL
52	M6	94	ARG
52	M6	100	GLU
52	M6	106	GLU
52	M6	110	PRO
52	M6	114	LYS
52	M6	117	ARG
52	M6	119	VAL
52	M6	124	LEU
52	M6	126	VAL
52	M6	128	ARG
52	M6	129	LEU
52	M6	130	LYS
52	M6	134	LYS
52	M6	143	THR
52	M6	160	ARG
52	M6	161	LYS
52	M6	162	VAL
52	M6	166	GLU
52	M6	180	SER
52	M6	182	ASN
52	M6	184	THR
52	M6	187	GLU
52	M6	190	VAL
53	M7	3	ARG
53	M7	9	THR
53	M7	24	VAL
53	M7	25	SER
53	M7	29	THR

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Mol	Chain	Res	Type
53	M7	32	THR
53	M7	36	ILE
53	M7	40	GLU
53	M7	41	LEU
53	M7	51	VAL
53	M7	52	LEU
53	M7	55	GLN
53	M7	67	ILE
53	M7	69	ARG
53	M7	78	VAL
53	M7	91	VAL
53	M7	111	LYS
53	M7	112	LEU
53	M7	127	ARG
53	M7	128	ARG
53	M7	136	ILE
53	M7	142	SER
53	M7	144	SER
53	M7	149	VAL
53	M7	151	THR
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	11	LYS
54	M8	17	THR
54	M8	24	VAL
54	M8	26	LEU
54	M8	27	LYS
54	M8	32	LEU
54	M8	34	THR
54	M8	39	ARG
54	M8	41	ASP
54	M8	49	LEU
54	M8	57	ILE
54	M8	64	VAL
54	M8	69	ARG
54	M8	81	VAL
54	M8	99	THR

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Mol	Chain	Res	Type
54	M8	111	ARG
54	M8	122	ILE
54	M8	127	LEU
54	M8	135	GLN
54	M8	138	LEU
54	M8	141	ARG
54	M8	150	VAL
54	M8	165	ILE
54	M8	168	THR
55	M9	4	LEU
55	M9	10	LEU
55	M9	17	VAL
55	M9	24	LEU
55	M9	29	THR
55	M9	41	ILE
55	M9	42	ARG
55	M9	44	LEU
55	M9	46	LYS
55	M9	51	VAL
55	M9	55	VAL
55	M9	63	THR
55	M9	71	ARG
55	M9	74	ARG
55	M9	81	ARG
55	M9	86	GLU
55	M9	98	ARG
55	M9	99	LEU
55	M9	101	VAL
55	M9	103	ARG
55	M9	104	ARG
55	M9	106	LEU
55	M9	115	ILE
55	M9	138	LEU
55	M9	144	GLN
55	M9	175	GLN
55	M9	177	VAL
55	M9	180	LYS
56	N0	8	GLN
56	N0	12	ARG
56	N0	13	ARG
56	N0	16	THR
56	N0	17	GLU

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Mol	Chain	Res	Type
56	N0	24	LEU
56	N0	45	LEU
56	N0	47	LYS
56	N0	50	LYS
56	N0	51	VAL
56	N0	58	ILE
56	N0	61	ILE
56	N0	71	LYS
56	N0	77	VAL
56	N0	80	ARG
56	N0	81	TYR
56	N0	83	SER
56	N0	85	SER
56	N0	87	THR
56	N0	88	HIS
56	N0	97	VAL
56	N0	100	VAL
56	N0	105	THR
56	N0	113	ARG
56	N0	115	ARG
56	N0	117	ARG
56	N0	130	GLU
56	N0	131	LYS
56	N0	132	THR
56	N0	137	ARG
56	N0	138	GLN
56	N0	142	GLN
56	N0	145	THR
56	N0	155	ARG
56	N0	160	THR
56	N0	161	LYS
56	N0	162	THR
56	N0	166	LYS
56	N0	167	ARG
56	N0	170	THR
56	N0	171	PHE
57	N1	9	SER
57	N1	12	ARG
57	N1	14	MET
57	N1	17	ARG
57	N1	27	LEU
57	N1	39	ILE

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Mol	Chain	Res	Type
57	N1	55	LYS
57	N1	60	LYS
57	N1	64	VAL
57	N1	68	THR
57	N1	71	SER
57	N1	75	ILE
57	N1	78	LYS
57	N1	79	MET
57	N1	80	VAL
57	N1	83	ARG
57	N1	87	LYS
57	N1	88	ARG
57	N1	89	LEU
57	N1	92	ARG
57	N1	97	LYS
57	N1	102	ARG
57	N1	103	GLN
57	N1	104	GLU
57	N1	106	LEU
57	N1	115	LYS
57	N1	118	GLU
57	N1	127	GLN
57	N1	128	LEU
57	N1	131	GLN
57	N1	139	ARG
57	N1	141	VAL
57	N1	143	THR
57	N1	144	GLU
57	N1	149	GLN
57	N1	158	THR
58	N2	9	GLN
58	N2	10	LYS
58	N2	16	THR
58	N2	38	ILE
58	N2	47	VAL
58	N2	49	ASN
58	N2	50	LEU
58	N2	52	ASN
58	N2	54	VAL
58	N2	61	THR
58	N2	66	VAL
58	N2	70	LYS

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Mol	Chain	Res	Type
58	N2	88	GLN
58	N2	93	ILE
58	N2	94	ARG
58	N2	99	LYS
58	N2	100	THR
59	N3	4	ASN
59	N3	13	ILE
59	N3	45	ARG
59	N3	46	LEU
59	N3	57	MET
59	N3	63	LYS
59	N3	64	LYS
59	N3	69	LEU
59	N3	72	LYS
59	N3	73	VAL
59	N3	74	MET
59	N3	79	VAL
59	N3	83	LYS
59	N3	91	VAL
59	N3	102	ILE
59	N3	104	ASN
59	N3	109	MET
59	N3	112	SER
59	N3	115	THR
59	N3	125	LEU
59	N3	135	VAL
59	N3	137	VAL
60	N4	4	GLU
60	N4	5	ILE
60	N4	7	SER
60	N4	19	THR
60	N4	39	LEU
60	N4	52	THR
60	N4	54	LEU
60	N4	64	THR
61	N5	26	VAL
61	N5	27	ARG
61	N5	28	THR
61	N5	34	LEU
61	N5	36	LYS
61	N5	37	THR
61	N5	38	LEU

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Mol	Chain	Res	Type
61	N5	39	LYS
61	N5	40	LEU
61	N5	45	LYS
61	N5	48	SER
61	N5	49	LYS
61	N5	51	VAL
61	N5	63	ILE
61	N5	71	THR
61	N5	73	MET
61	N5	81	ILE
61	N5	86	VAL
61	N5	89	LYS
61	N5	92	LYS
61	N5	96	LYS
61	N5	108	LEU
61	N5	113	LEU
61	N5	115	ARG
61	N5	125	ARG
61	N5	127	THR
61	N5	133	LEU
61	N5	135	ILE
61	N5	139	ILE
61	N5	142	ILE
62	N6	3	LYS
62	N6	4	GLN
62	N6	8	VAL
62	N6	13	ARG
62	N6	17	LYS
62	N6	37	LYS
62	N6	42	GLN
62	N6	45	ILE
62	N6	50	ILE
62	N6	51	ARG
62	N6	55	GLU
62	N6	56	VAL
62	N6	57	LEU
62	N6	60	ARG
62	N6	70	ILE
62	N6	76	LEU
62	N6	80	VAL
62	N6	95	VAL
62	N6	97	ILE

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Mol	Chain	Res	Type
62	N6	105	VAL
62	N6	114	ASP
62	N6	115	ARG
62	N6	125	LYS
62	N6	126	LEU
62	N6	127	GLU
63	N7	14	VAL
63	N7	24	VAL
63	N7	34	LYS
63	N7	46	ILE
63	N7	53	VAL
63	N7	54	THR
63	N7	55	LYS
63	N7	64	LYS
63	N7	72	ILE
63	N7	75	VAL
63	N7	81	LEU
63	N7	83	THR
63	N7	86	THR
63	N7	87	LEU
63	N7	90	GLU
63	N7	92	PHE
63	N7	99	GLU
63	N7	102	GLU
63	N7	109	GLU
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
64	N8	12	ARG
64	N8	16	SER
64	N8	34	MET
64	N8	42	ARG
64	N8	46	ASP
64	N8	47	LYS
64	N8	56	VAL
64	N8	72	VAL
64	N8	76	ASP
64	N8	78	LEU

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Mol	Chain	Res	Type
64	N8	84	GLU
64	N8	88	ASP
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	4	SER
65	N9	7	HIS
65	N9	13	THR
65	N9	22	LYS
65	N9	25	LYS
65	N9	28	LYS
65	N9	29	TYR
65	N9	35	VAL
65	N9	50	THR
65	N9	59	LYS
66	O0	14	LEU
66	O0	16	LEU
66	O0	18	ILE
66	O0	24	THR
66	O0	32	LYS
66	O0	34	LEU
66	O0	50	VAL
66	O0	54	SER
66	O0	61	MET
66	O0	66	LYS
66	O0	76	GLU
66	O0	83	LYS
66	O0	87	VAL
66	O0	97	ASP
66	O0	99	ASP
66	O0	100	ILE
66	O0	101	LEU
66	O0	104	LEU
67	O1	8	VAL
67	O1	16	LEU
67	O1	26	LYS
67	O1	31	ARG
67	O1	47	ASP
67	O1	55	LEU

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Mol	Chain	Res	Type
67	O1	64	VAL
67	O1	68	GLU
67	O1	76	SER
67	O1	79	ARG
67	O1	82	GLU
67	O1	84	ASP
67	O1	96	VAL
67	O1	105	GLN
67	O1	106	THR
67	O1	107	VAL
68	O2	3	SER
68	O2	19	ARG
68	O2	33	ARG
68	O2	34	LYS
68	O2	41	VAL
68	O2	44	ARG
68	O2	61	LYS
68	O2	62	LYS
68	O2	73	THR
68	O2	75	LEU
68	O2	76	VAL
68	O2	106	VAL
68	O2	125	ARG
68	O2	128	LEU
69	O3	4	SER
69	O3	10	LYS
69	O3	15	SER
69	O3	22	VAL
69	O3	28	SER
69	O3	33	GLU
69	O3	49	ILE
69	O3	59	VAL
69	O3	70	LYS
69	O3	80	VAL
69	O3	81	VAL
69	O3	86	ARG
69	O3	98	VAL
69	O3	99	ARG
69	O3	106	ASN
70	O4	5	VAL
70	O4	8	ARG
70	O4	20	ILE

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Mol	Chain	Res	Type
70	O4	22	VAL
70	O4	24	LYS
70	O4	29	ILE
70	O4	51	LEU
70	O4	58	ARG
70	O4	60	ARG
70	O4	65	VAL
70	O4	71	THR
70	O4	72	VAL
70	O4	74	ARG
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	13	SER
71	O5	20	GLN
71	O5	22	VAL
71	O5	26	LYS
71	O5	27	GLU
71	O5	38	ARG
71	O5	41	LEU
71	O5	43	LYS
71	O5	47	VAL
71	O5	71	LYS
71	O5	81	ARG
71	O5	83	LYS
71	O5	84	LYS
71	O5	85	THR
71	O5	93	THR
71	O5	96	GLU
71	O5	99	GLN
71	O5	101	THR
71	O5	102	GLU
71	O5	104	GLN
71	O5	107	LYS
71	O5	119	LYS
72	O6	11	LEU
72	O6	13	LYS
72	O6	17	VAL
72	O6	18	THR

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Mol	Chain	Res	Type
72	O6	25	LYS
72	O6	26	ILE
72	O6	36	ARG
72	O6	42	SER
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	66	GLU
72	O6	68	ARG
72	O6	76	ARG
72	O6	81	THR
72	O6	84	LYS
72	O6	88	GLU
72	O6	89	GLU
72	O6	90	MET
73	O7	24	ARG
73	O7	25	ARG
73	O7	33	THR
73	O7	45	ARG
73	O7	55	ARG
73	O7	58	THR
73	O7	59	THR
73	O7	61	THR
73	O7	67	LEU
73	O7	82	SER
74	O8	5	ILE
74	O8	12	LEU
74	O8	20	VAL
74	O8	22	THR
74	O8	24	THR
74	O8	28	ASN
74	O8	29	LYS
74	O8	32	ASN
74	O8	41	THR
74	O8	45	VAL
74	O8	48	SER
74	O8	50	SER
74	O8	51	LEU

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Mol	Chain	Res	Type
74	O8	53	THR
74	O8	54	LEU
74	O8	55	VAL
74	O8	64	LYS
74	O8	65	LEU
74	O8	67	GLN
74	O8	68	SER
75	O9	4	GLN
75	O9	5	LYS
75	O9	21	ARG
75	O9	23	LEU
75	O9	27	ILE
75	O9	28	ARG
75	O9	29	LEU
75	O9	51	ILE
76	Q0	77	ILE
76	Q0	78	ILE
76	Q0	83	LYS
76	Q0	85	LEU
76	Q0	113	ARG
76	Q0	114	LYS
76	Q0	127	LEU
77	Q1	2	ARG
77	Q1	9	ARG
77	Q1	10	THR
77	Q1	11	ARG
77	Q1	13	LEU
77	Q1	23	ARG
77	Q1	25	LYS
78	Q2	4	VAL
78	Q2	6	LYS
78	Q2	8	ARG
78	Q2	17	CYS
78	Q2	21	THR
78	Q2	22	GLN
78	Q2	35	LEU
78	Q2	47	GLN
78	Q2	60	LYS
78	Q2	61	LYS
78	Q2	78	LYS
78	Q2	80	ARG
78	Q2	83	LEU

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Mol	Chain	Res	Type
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	92	GLU
78	Q2	93	LEU
78	Q2	100	LYS
78	Q2	104	LEU
79	Q3	11	THR
79	Q3	16	VAL
79	Q3	24	ARG
79	Q3	25	GLN
79	Q3	32	GLN
79	Q3	40	SER
79	Q3	45	LYS
79	Q3	46	THR
79	Q3	49	ARG
79	Q3	56	THR
79	Q3	60	CYS
79	Q3	73	THR
79	Q3	88	GLU
79	Q3	90	VAL
79	Q3	91	GLU
2	s0	6	THR
2	s0	8	ASP
2	s0	9	LEU
2	s0	12	GLU
2	s0	24	LEU
2	s0	29	VAL
2	s0	30	GLN
2	s0	41	ARG
2	s0	45	VAL
2	s0	50	VAL
2	s0	57	LEU
2	s0	59	LEU
2	s0	62	ARG
2	s0	71	GLU
2	s0	87	LEU
2	s0	88	LYS
2	s0	96	THR
2	s0	110	TYR
2	s0	111	ILE
2	s0	119	ARG
2	s0	131	GLN

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Mol	Chain	Res	Type
2	s0	139	VAL
2	s0	144	ILE
2	s0	154	GLU
2	s0	156	VAL
2	s0	157	ASP
2	s0	164	ASN
2	s0	172	LEU
2	s0	179	ARG
2	s0	180	GLU
2	s0	183	ARG
2	s0	184	LEU
2	s0	185	ARG
2	s0	188	LEU
2	s0	198	MET
2	s0	202	TYR
3	s1	21	VAL
3	s1	25	THR
3	s1	40	ASN
3	s1	47	LEU
3	s1	61	LEU
3	s1	62	LYS
3	s1	65	VAL
3	s1	66	VAL
3	s1	70	LEU
3	s1	74	GLN
3	s1	78	ASP
3	s1	80	SER
3	s1	83	LYS
3	s1	96	LEU
3	s1	99	ASN
3	s1	105	PHE
3	s1	110	LEU
3	s1	125	VAL
3	s1	127	VAL
3	s1	131	ASP
3	s1	137	ILE
3	s1	146	GLN
3	s1	148	ASN
3	s1	150	VAL
3	s1	151	LYS
3	s1	169	SER
3	s1	175	GLU

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Mol	Chain	Res	Type
3	s1	177	GLN
3	s1	179	SER
3	s1	181	LEU
3	s1	193	ILE
3	s1	202	LYS
3	s1	203	ASP
3	s1	210	ILE
3	s1	212	VAL
3	s1	215	VAL
3	s1	217	LEU
3	s1	219	LYS
3	s1	228	LEU
3	s1	231	LEU
3	s1	232	HIS
4	s2	41	LEU
4	s2	51	THR
4	s2	53	ILE
4	s2	54	GLU
4	s2	55	GLU
4	s2	58	LEU
4	s2	61	LEU
4	s2	69	ILE
4	s2	70	ASP
4	s2	72	LEU
4	s2	73	LEU
4	s2	80	VAL
4	s2	83	ILE
4	s2	89	GLN
4	s2	90	THR
4	s2	95	ARG
4	s2	97	ARG
4	s2	106	ASP
4	s2	111	VAL
4	s2	117	THR
4	s2	129	ILE
4	s2	130	ILE
4	s2	136	VAL
4	s2	137	ILE
4	s2	139	ILE
4	s2	141	ARG
4	s2	146	THR
4	s2	148	LEU

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Mol	Chain	Res	Type
4	s2	150	GLN
4	s2	153	SER
4	s2	161	LYS
4	s2	166	THR
4	s2	169	LEU
4	s2	170	ILE
4	s2	185	LYS
4	s2	194	GLU
4	s2	206	THR
4	s2	208	GLU
4	s2	226	THR
4	s2	229	LEU
4	s2	233	GLN
4	s2	237	VAL
4	s2	244	SER
4	s2	248	SER
5	s3	4	LEU
5	s3	7	LYS
5	s3	9	ARG
5	s3	16	VAL
5	s3	21	LEU
5	s3	39	VAL
5	s3	41	VAL
5	s3	44	THR
5	s3	45	LYS
5	s3	55	THR
5	s3	67	ASN
5	s3	69	LEU
5	s3	70	THR
5	s3	76	ARG
5	s3	84	ILE
5	s3	91	VAL
5	s3	94	ARG
5	s3	115	ILE
5	s3	127	MET
5	s3	128	GLU
5	s3	132	LYS
5	s3	142	LEU
5	s3	154	ASP
5	s3	158	ILE
5	s3	162	GLN
5	s3	164	VAL

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Mol	Chain	Res	Type
5	s3	172	THR
5	s3	175	VAL
5	s3	176	LEU
5	s3	181	VAL
5	s3	196	ARG
5	s3	212	LYS
5	s3	213	GLU
6	s4	6	LYS
6	s4	7	LYS
6	s4	9	LEU
6	s4	23	LEU
6	s4	37	LYS
6	s4	38	LEU
6	s4	42	LEU
6	s4	48	LEU
6	s4	49	ARG
6	s4	51	ARG
6	s4	56	LEU
6	s4	67	GLN
6	s4	78	THR
6	s4	95	THR
6	s4	111	VAL
6	s4	113	ARG
6	s4	117	GLU
6	s4	123	LEU
6	s4	126	VAL
6	s4	129	VAL
6	s4	139	VAL
6	s4	140	VAL
6	s4	146	THR
6	s4	148	ARG
6	s4	160	VAL
6	s4	180	LEU
6	s4	181	VAL
6	s4	182	TYR
6	s4	184	THR
6	s4	187	ARG
6	s4	191	ARG
6	s4	194	THR
6	s4	195	ILE
6	s4	208	VAL
6	s4	219	VAL

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Mol	Chain	Res	Type
6	s4	222	LEU
6	s4	223	ASN
6	s4	227	VAL
6	s4	236	ILE
6	s4	245	LYS
6	s4	254	ARG
7	s5	24	VAL
7	s5	25	LEU
7	s5	27	THR
7	s5	31	GLU
7	s5	38	THR
7	s5	41	LYS
7	s5	51	VAL
7	s5	59	VAL
7	s5	63	GLN
7	s5	64	VAL
7	s5	68	ILE
7	s5	80	LYS
7	s5	83	ARG
7	s5	89	ILE
7	s5	93	LEU
7	s5	112	ARG
7	s5	119	ASP
7	s5	125	THR
7	s5	128	ASN
7	s5	147	THR
7	s5	149	VAL
7	s5	156	ARG
7	s5	157	ARG
7	s5	162	VAL
7	s5	170	GLN
7	s5	186	ASN
7	s5	187	ILE
7	s5	194	LEU
7	s5	203	LYS
7	s5	211	ILE
7	s5	213	LYS
7	s5	216	GLU
8	s6	9	VAL
8	s6	15	THR
8	s6	21	GLU
8	s6	69	LEU

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Mol	Chain	Res	Type
8	s6	71	THR
8	s6	76	LEU
8	s6	78	THR
8	s6	89	ASP
8	s6	91	GLU
8	s6	92	ARG
8	s6	93	LYS
8	s6	97	VAL
8	s6	108	VAL
8	s6	109	LEU
8	s6	115	LYS
8	s6	121	LEU
8	s6	125	THR
8	s6	126	ASP
8	s6	127	THR
8	s6	128	THR
8	s6	129	VAL
8	s6	133	LEU
8	s6	137	ARG
8	s6	143	LYS
8	s6	150	GLU
8	s6	151	ASP
8	s6	153	VAL
8	s6	154	ARG
8	s6	171	LYS
8	s6	177	ARG
8	s6	179	VAL
8	s6	193	LEU
8	s6	212	LEU
8	s6	215	ARG
8	s6	217	SER
8	s6	218	GLU
9	s7	11	GLN
9	s7	28	GLU
9	s7	30	SER
9	s7	33	GLU
9	s7	49	ILE
9	s7	50	ASP
9	s7	51	VAL
9	s7	62	VAL
9	s7	67	LEU
9	s7	77	LEU

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Mol	Chain	Res	Type
9	s7	79	ARG
9	s7	80	GLU
9	s7	81	LEU
9	s7	86	GLN
9	s7	97	ARG
9	s7	103	SER
9	s7	105	THR
9	s7	108	GLN
9	s7	109	VAL
9	s7	110	GLN
9	s7	114	ARG
9	s7	116	ARG
9	s7	117	THR
9	s7	118	LEU
9	s7	119	THR
9	s7	134	GLU
9	s7	136	VAL
9	s7	143	LEU
9	s7	144	VAL
9	s7	156	SER
9	s7	159	VAL
9	s7	162	ILE
9	s7	163	ASP
9	s7	166	LEU
9	s7	180	GLN
9	s7	185	ILE
10	s8	8	ARG
10	s8	12	SER
10	s8	18	ARG
10	s8	25	ARG
10	s8	28	GLU
10	s8	29	LEU
10	s8	36	THR
10	s8	62	THR
10	s8	74	LYS
10	s8	76	THR
10	s8	89	GLU
10	s8	97	THR
10	s8	121	LEU
10	s8	138	ASN
10	s8	151	LYS
10	s8	152	ILE

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Mol	Chain	Res	Type
10	s8	155	SER
10	s8	170	SER
10	s8	176	SER
10	s8	178	ARG
10	s8	183	ILE
10	s8	184	LEU
10	s8	197	THR
10	s8	199	LYS
11	s9	7	THR
11	s9	11	THR
11	s9	16	LYS
11	s9	20	GLU
11	s9	27	GLU
11	s9	28	LEU
11	s9	41	GLU
11	s9	46	SER
11	s9	49	LEU
11	s9	52	ILE
11	s9	78	ARG
11	s9	82	ARG
11	s9	87	SER
11	s9	90	LYS
11	s9	91	LYS
11	s9	93	LEU
11	s9	96	VAL
11	s9	101	VAL
11	s9	105	LEU
11	s9	109	LEU
11	s9	110	GLN
11	s9	111	THR
11	s9	113	VAL
11	s9	120	LYS
11	s9	122	VAL
11	s9	126	ARG
11	s9	130	THR
11	s9	133	HIS
11	s9	134	ILE
11	s9	141	VAL
11	s9	142	ASN
11	s9	143	ILE
11	s9	149	ARG
11	s9	150	LEU

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Mol	Chain	Res	Type
11	s9	168	ARG
11	s9	171	ARG
11	s9	182	GLU
12	c0	2	LEU
12	c0	3	MET
12	c0	13	GLN
12	c0	15	LEU
12	c0	20	VAL
12	c0	22	VAL
12	c0	28	ASN
12	c0	47	GLN
12	c0	50	THR
12	c0	55	VAL
12	c0	57	THR
12	c0	67	THR
12	c0	71	GLU
12	c0	76	LEU
13	c1	3	THR
13	c1	5	LEU
13	c1	10	GLU
13	c1	21	ASN
13	c1	26	LYS
13	c1	27	THR
13	c1	28	SER
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	72	THR
13	c1	74	THR
13	c1	76	VAL
13	c1	78	THR
13	c1	86	ILE
13	c1	99	ARG
13	c1	107	VAL
13	c1	112	SER
13	c1	116	ARG
13	c1	117	VAL

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Mol	Chain	Res	Type
13	c1	123	VAL
13	c1	125	VAL
13	c1	140	VAL
14	c2	28	LEU
14	c2	30	VAL
14	c2	36	LEU
14	c2	39	ASP
14	c2	43	ARG
14	c2	45	LEU
14	c2	54	ARG
14	c2	58	LEU
14	c2	59	LEU
14	c2	61	VAL
14	c2	63	VAL
14	c2	66	VAL
14	c2	71	ILE
14	c2	74	LEU
14	c2	85	LYS
14	c2	89	ILE
14	c2	91	VAL
14	c2	97	LEU
14	c2	103	LEU
14	c2	116	VAL
14	c2	120	VAL
14	c2	121	VAL
14	c2	132	GLU
14	c2	136	ILE
15	c3	4	MET
15	c3	6	SER
15	c3	12	SER
15	c3	14	SER
15	c3	16	ILE
15	c3	27	LYS
15	c3	28	LEU
15	c3	33	VAL
15	c3	35	GLU
15	c3	60	VAL
15	c3	62	GLN
15	c3	64	ARG
15	c3	66	ILE
15	c3	67	THR
15	c3	70	LYS

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Mol	Chain	Res	Type
15	c3	75	LEU
15	c3	76	LYS
15	c3	80	LEU
15	c3	84	ILE
15	c3	88	LEU
15	c3	102	LEU
15	c3	104	ARG
15	c3	115	LEU
15	c3	127	ARG
15	c3	131	THR
15	c3	134	VAL
15	c3	138	ASN
15	c3	150	VAL
16	c4	13	VAL
16	c4	26	THR
16	c4	31	THR
16	c4	42	VAL
16	c4	43	THR
16	c4	55	SER
16	c4	61	MET
16	c4	62	LEU
16	c4	65	GLN
16	c4	66	ASP
16	c4	79	VAL
16	c4	81	VAL
16	c4	84	ARG
16	c4	92	LYS
16	c4	102	LEU
16	c4	107	ARG
16	c4	114	ARG
16	c4	119	THR
16	c4	124	ASP
16	c4	126	THR
16	c4	132	ARG
16	c4	136	ARG
16	c4	137	LEU
17	c5	12	PHE
17	c5	20	VAL
17	c5	21	ASP
17	c5	24	LYS
17	c5	28	MET
17	c5	36	LEU

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Mol	Chain	Res	Type
17	c5	49	MET
17	c5	69	GLU
17	c5	71	GLU
17	c5	76	VAL
17	c5	83	MET
17	c5	92	SER
17	c5	97	TYR
17	c5	107	ILE
17	c5	110	GLU
17	c5	121	ILE
17	c5	122	THR
17	c5	124	THR
17	c5	126	VAL
17	c5	127	ARG
18	c6	7	VAL
18	c6	17	THR
18	c6	28	LEU
18	c6	32	ASN
18	c6	36	ILE
18	c6	37	THR
18	c6	39	VAL
18	c6	43	ILE
18	c6	47	LYS
18	c6	53	LEU
18	c6	54	LEU
18	c6	57	LEU
18	c6	66	ARG
18	c6	68	ARG
18	c6	69	VAL
18	c6	70	THR
18	c6	83	GLN
18	c6	97	VAL
18	c6	98	ASP
18	c6	110	THR
18	c6	113	ASP
18	c6	114	ARG
18	c6	117	LEU
18	c6	137	ARG
19	c7	8	THR
19	c7	18	GLU
19	c7	29	GLN
19	c7	31	ASN

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Mol	Chain	Res	Type
19	c7	34	LEU
19	c7	36	ASP
19	c7	38	ILE
19	c7	46	LEU
19	c7	61	ILE
19	c7	62	GLN
19	c7	63	LYS
19	c7	66	VAL
19	c7	69	ILE
19	c7	72	LYS
19	c7	83	GLN
19	c7	85	VAL
19	c7	87	GLU
19	c7	104	ASN
19	c7	107	SER
19	c7	113	LEU
20	c8	3	LEU
20	c8	4	VAL
20	c8	5	VAL
20	c8	6	GLN
20	c8	10	SER
20	c8	13	HIS
20	c8	15	LEU
20	c8	18	LEU
20	c8	25	ASN
20	c8	28	ILE
20	c8	36	LYS
20	c8	40	ARG
20	c8	41	ARG
20	c8	61	LEU
20	c8	63	GLN
20	c8	66	LEU
20	c8	92	ILE
20	c8	94	ASP
20	c8	105	VAL
20	c8	110	ARG
20	c8	116	LEU
20	c8	119	ILE
20	c8	134	ARG
20	c8	136	GLN
20	c8	141	THR
20	c8	143	ARG

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Mol	Chain	Res	Type
21	c9	6	VAL
21	c9	9	VAL
21	c9	20	SER
21	c9	27	LYS
21	c9	28	LEU
21	c9	37	VAL
21	c9	41	SER
21	c9	57	ARG
21	c9	68	ARG
21	c9	70	GLN
21	c9	71	VAL
21	c9	73	VAL
21	c9	84	LYS
21	c9	89	ARG
21	c9	116	ILE
21	c9	126	GLU
21	c9	131	ASP
21	c9	132	LEU
21	c9	134	ARG
21	c9	135	ILE
21	c9	140	LEU
21	c9	142	GLU
21	c9	144	GLU
22	d0	12	GLN
22	d0	13	GLU
22	d0	16	GLN
22	d0	21	LYS
22	d0	22	ILE
22	d0	23	ARG
22	d0	27	THR
22	d0	31	VAL
22	d0	34	LEU
22	d0	39	SER
22	d0	44	ASN
22	d0	47	GLN
22	d0	51	VAL
22	d0	57	ARG
22	d0	60	THR
22	d0	63	LEU
22	d0	70	THR
22	d0	74	GLU
22	d0	77	LYS

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Mol	Chain	Res	Type
22	d0	97	VAL
22	d0	98	GLN
22	d0	99	ILE
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	8	LEU
23	d1	10	GLU
23	d1	11	LEU
23	d1	12	TYR
23	d1	15	ARG
23	d1	18	SER
23	d1	24	ILE
23	d1	32	VAL
23	d1	34	ILE
23	d1	38	LYS
23	d1	44	ARG
23	d1	52	THR
23	d1	67	ASP
23	d1	68	SER
23	d1	75	ASN
23	d1	78	LEU
23	d1	87	ARG
24	d2	4	SER
24	d2	6	VAL
24	d2	7	LEU
24	d2	15	ASN
24	d2	22	LYS
24	d2	23	ARG
24	d2	26	LEU
24	d2	47	ILE
24	d2	49	GLU
24	d2	65	LEU
24	d2	68	ARG
24	d2	74	VAL
24	d2	83	ILE

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Mol	Chain	Res	Type
24	d2	93	LEU
24	d2	98	GLN
24	d2	103	ILE
24	d2	105	THR
24	d2	111	MET
24	d2	121	VAL
25	d3	19	ARG
25	d3	33	LEU
25	d3	36	THR
25	d3	40	SER
25	d3	55	GLU
25	d3	66	SER
25	d3	73	ARG
25	d3	79	ASN
25	d3	83	VAL
25	d3	84	THR
25	d3	96	VAL
25	d3	100	ASP
25	d3	103	LEU
25	d3	107	PHE
25	d3	109	ARG
25	d3	114	LYS
25	d3	117	ILE
25	d3	125	VAL
25	d3	126	LYS
25	d3	127	VAL
25	d3	128	SER
26	d4	10	ARG
26	d4	12	VAL
26	d4	26	ASP
26	d4	34	ASN
26	d4	35	VAL
26	d4	42	GLU
26	d4	43	LYS
26	d4	47	VAL
26	d4	49	LYS
26	d4	51	GLU
26	d4	58	PHE
26	d4	62	THR
26	d4	83	LYS
26	d4	88	THR
26	d4	100	VAL

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Mol	Chain	Res	Type
26	d4	118	ILE
26	d4	121	THR
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	62	VAL
27	d5	68	ARG
27	d5	71	ILE
27	d5	81	ARG
27	d5	88	ILE
27	d5	90	LYS
27	d5	97	LYS
28	d6	5	ARG
28	d6	10	ARG
28	d6	12	LYS
28	d6	18	VAL
28	d6	28	LYS
28	d6	34	LYS
28	d6	41	ILE
28	d6	44	ILE
28	d6	53	LEU
28	d6	58	VAL
28	d6	61	GLU
28	d6	67	THR
28	d6	84	VAL
28	d6	89	ARG
28	d6	90	GLU
29	d7	4	VAL
29	d7	8	LEU
29	d7	15	GLU
29	d7	20	LYS
29	d7	40	CYS
29	d7	43	ILE
29	d7	44	THR
29	d7	52	THR
29	d7	60	SER
29	d7	61	THR

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Mol	Chain	Res	Type
29	d7	72	LYS
29	d7	77	THR
29	d7	81	ARG
29	d7	82	LYS
30	d8	14	LYS
30	d8	15	VAL
30	d8	22	ARG
30	d8	28	VAL
30	d8	30	VAL
30	d8	32	PHE
30	d8	33	LEU
30	d8	36	THR
30	d8	39	THR
30	d8	54	LEU
30	d8	62	GLU
30	d8	64	ARG
30	d8	65	ARG
30	d8	67	ARG
31	d9	10	HIS
31	d9	12	ARG
31	d9	25	SER
31	d9	30	LEU
31	d9	31	ILE
31	d9	32	ARG
31	d9	36	LEU
31	d9	38	ILE
31	d9	39	CYS
31	d9	42	CYS
31	d9	54	LYS
32	e0	24	THR
32	e0	28	LYS
32	e0	29	LYS
32	e0	38	LEU
32	e0	39	LEU
32	e0	44	PHE
32	e0	46	ASN
32	e0	49	LEU
32	e0	55	ARG
32	e0	56	MET
33	e1	78	LYS
33	e1	79	LYS
33	e1	83	LYS

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Mol	Chain	Res	Type
33	e1	90	LYS
33	e1	91	ILE
33	e1	96	LYS
33	e1	97	LYS
33	e1	98	VAL
33	e1	100	LEU
33	e1	102	VAL
33	e1	106	TYR
33	e1	107	LYS
33	e1	108	VAL
33	e1	113	LYS
33	e1	115	THR
33	e1	120	GLU
33	e1	135	HIS
33	e1	136	LYS
33	e1	146	SER
33	e1	147	VAL
34	sR	9	LEU
34	sR	13	LEU
34	sR	14	GLU
34	sR	25	THR
34	sR	29	GLN
34	sR	58	VAL
34	sR	59	ARG
34	sR	64	HIS
34	sR	70	ASP
34	sR	76	ASP
34	sR	96	THR
34	sR	98	GLU
34	sR	106	HIS
34	sR	145	LEU
34	sR	167	VAL
34	sR	168	THR
34	sR	176	LYS
34	sR	183	LEU
34	sR	188	ILE
34	sR	207	ASP
34	sR	232	TYR
34	sR	238	ASP
34	sR	266	ASP
34	sR	275	ARG
34	sR	282	SER

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Mol	Chain	Res	Type
34	sR	286	GLU
34	sR	297	ASP
34	sR	309	VAL
34	sR	310	ILE
80	sM	23	LYS
80	sM	24	GLU
80	sM	41	SER
80	sM	43	ASP
80	sM	48	ARG
80	sM	61	ILE
80	sM	63	ASP
80	sM	74	LYS
80	sM	75	ASP
80	sM	77	THR
80	sM	81	THR
39	l2	10	LYS
39	l2	15	ILE
39	l2	23	ARG
39	l2	32	LEU
39	l2	44	ILE
39	l2	45	VAL
39	l2	46	LYS
39	l2	47	GLN
39	l2	48	ILE
39	l2	52	SER
39	l2	62	VAL
39	l2	71	LEU
39	l2	74	GLU
39	l2	77	ILE
39	l2	80	GLU
39	l2	96	LEU
39	l2	101	VAL
39	l2	109	GLU
39	l2	112	ILE
39	l2	113	VAL
39	l2	114	SER
39	l2	116	VAL
39	l2	119	LYS
39	l2	134	VAL
39	l2	135	ILE
39	l2	137	ILE
39	l2	142	ASP

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Mol	Chain	Res	Type
39	l2	147	ARG
39	l2	149	ARG
39	l2	155	LYS
39	l2	156	LYS
39	l2	157	VAL
39	l2	165	VAL
39	l2	169	ILE
39	l2	180	LEU
39	l2	192	LYS
39	l2	193	ARG
39	l2	204	MET
39	l2	207	VAL
39	l2	215	ASN
39	l2	221	LYS
39	l2	227	ARG
39	l2	230	VAL
39	l2	243	THR
39	l2	246	LEU
40	l3	3	HIS
40	l3	4	ARG
40	l3	10	ARG
40	l3	17	LEU
40	l3	21	ARG
40	l3	34	LYS
40	l3	37	ARG
40	l3	39	LYS
40	l3	41	VAL
40	l3	44	THR
40	l3	47	LEU
40	l3	50	LYS
40	l3	53	MET
40	l3	56	ILE
40	l3	70	ARG
40	l3	73	VAL
40	l3	79	VAL
40	l3	81	THR
40	l3	85	VAL
40	l3	95	THR
40	l3	103	THR
40	l3	114	VAL
40	l3	120	LYS
40	l3	139	GLN

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Mol	Chain	Res	Type
40	l3	146	ARG
40	l3	148	LEU
40	l3	160	VAL
40	l3	169	THR
40	l3	183	LEU
40	l3	192	VAL
40	l3	196	ARG
40	l3	197	GLU
40	l3	202	THR
40	l3	205	VAL
40	l3	213	GLU
40	l3	214	MET
40	l3	232	ARG
40	l3	235	THR
40	l3	236	LYS
40	l3	238	LEU
40	l3	242	THR
40	l3	246	LEU
40	l3	252	ILE
40	l3	260	VAL
40	l3	274	SER
40	l3	275	ARG
40	l3	282	ILE
40	l3	284	ARG
40	l3	287	LYS
40	l3	297	SER
40	l3	304	THR
40	l3	308	MET
40	l3	324	VAL
40	l3	328	ILE
40	l3	335	ILE
40	l3	338	LEU
40	l3	340	LYS
40	l3	346	THR
40	l3	347	SER
40	l3	354	VAL
40	l3	361	THR
40	l3	382	THR
40	l3	385	LYS
41	l4	3	ARG
41	l4	6	VAL
41	l4	18	ASN

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Mol	Chain	Res	Type
41	l4	25	VAL
41	l4	47	ARG
41	l4	52	VAL
41	l4	60	THR
41	l4	69	ARG
41	l4	71	VAL
41	l4	90	PHE
41	l4	92	ASN
41	l4	93	MET
41	l4	98	ARG
41	l4	122	THR
41	l4	136	LEU
41	l4	144	LYS
41	l4	145	ILE
41	l4	150	LEU
41	l4	151	VAL
41	l4	152	VAL
41	l4	156	LEU
41	l4	159	ILE
41	l4	163	LYS
41	l4	170	LYS
41	l4	179	LEU
41	l4	182	LEU
41	l4	186	LYS
41	l4	187	LEU
41	l4	191	LYS
41	l4	197	ARG
41	l4	203	ARG
41	l4	206	LEU
41	l4	215	ILE
41	l4	220	ARG
41	l4	222	VAL
41	l4	226	GLU
41	l4	230	VAL
41	l4	233	LEU
41	l4	237	GLN
41	l4	246	ARG
41	l4	258	LEU
41	l4	261	VAL
41	l4	265	GLU
41	l4	266	THR
41	l4	267	VAL

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Mol	Chain	Res	Type
41	l4	283	THR
41	l4	286	VAL
41	l4	289	ILE
41	l4	300	ARG
41	l4	304	GLN
41	l4	307	GLN
41	l4	311	HIS
41	l4	313	LEU
41	l4	316	ASN
41	l4	319	LYS
41	l4	323	VAL
41	l4	327	LEU
41	l4	338	LYS
41	l4	342	LYS
41	l4	345	GLU
41	l4	347	THR
41	l4	358	THR
41	l4	359	LEU
42	l5	4	GLN
42	l5	5	LYS
42	l5	25	GLU
42	l5	32	GLN
42	l5	35	ARG
42	l5	51	LEU
42	l5	61	ILE
42	l5	70	THR
42	l5	73	VAL
42	l5	74	VAL
42	l5	75	LEU
42	l5	89	THR
42	l5	93	THR
42	l5	110	LEU
42	l5	112	LYS
42	l5	113	LEU
42	l5	118	THR
42	l5	120	LYS
42	l5	122	VAL
42	l5	131	LEU
42	l5	132	THR
42	l5	136	GLU
42	l5	140	ARG
42	l5	144	VAL

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Mol	Chain	Res	Type
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	187	THR
42	l5	194	LEU
42	l5	218	ARG
42	l5	227	LEU
42	l5	236	LEU
42	l5	258	LYS
42	l5	259	LYS
42	l5	268	GLU
42	l5	269	SER
42	l5	273	ARG
42	l5	279	LYS
42	l5	282	ARG
42	l5	293	LEU
43	l6	8	LYS
43	l6	20	LYS
43	l6	21	THR
43	l6	31	ARG
43	l6	50	LYS
43	l6	52	VAL
43	l6	64	LEU
43	l6	65	ILE
43	l6	76	LEU
43	l6	78	ARG
43	l6	79	VAL
43	l6	82	ARG
43	l6	89	THR
43	l6	91	VAL
43	l6	93	VAL
43	l6	98	VAL
43	l6	109	GLU
43	l6	152	THR
43	l6	155	LEU
43	l6	162	SER
43	l6	175	LYS
44	l7	22	THR
44	l7	29	GLU

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Mol	Chain	Res	Type
44	l7	39	GLU
44	l7	41	ARG
44	l7	45	LEU
44	l7	53	LYS
44	l7	56	GLU
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	111	ILE
44	l7	121	LYS
44	l7	124	LEU
44	l7	130	ILE
44	l7	147	LEU
44	l7	156	ILE
44	l7	157	ASN
44	l7	158	LYS
44	l7	164	SER
44	l7	173	LEU
44	l7	179	LEU
44	l7	184	LEU
44	l7	191	VAL
44	l7	219	LYS
44	l7	229	PHE
44	l7	239	LEU
44	l7	244	ASN
81	l8	26	LEU
81	l8	46	LEU
81	l8	67	ILE
81	l8	68	ARG
81	l8	69	LEU
81	l8	74	THR
81	l8	77	GLN
81	l8	79	GLN
81	l8	81	THR
81	l8	89	GLU
81	l8	90	THR

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Mol	Chain	Res	Type
81	l8	95	ASN
81	l8	98	ARG
81	l8	101	THR
81	l8	111	LYS
81	l8	134	TYR
81	l8	136	LEU
81	l8	146	LYS
81	l8	149	LYS
81	l8	150	LEU
81	l8	160	ILE
81	l8	163	VAL
81	l8	169	LEU
81	l8	172	LYS
81	l8	180	VAL
81	l8	183	LYS
81	l8	185	ARG
81	l8	190	VAL
81	l8	200	LEU
81	l8	203	VAL
81	l8	213	LYS
81	l8	214	LEU
81	l8	224	ASP
81	l8	230	LYS
81	l8	245	LYS
81	l8	248	LYS
46	l9	6	THR
46	l9	18	VAL
46	l9	24	ILE
46	l9	33	THR
46	l9	39	LYS
46	l9	48	VAL
46	l9	52	LEU
46	l9	55	VAL
46	l9	62	ARG
46	l9	63	LYS
46	l9	68	LEU
46	l9	70	THR
46	l9	78	MET
46	l9	80	THR
46	l9	82	VAL
46	l9	92	TYR
46	l9	93	VAL

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Mol	Chain	Res	Type
46	l9	104	VAL
46	l9	106	LYS
46	l9	107	ASP
46	l9	118	LEU
46	l9	123	ILE
46	l9	129	ARG
46	l9	130	ASP
46	l9	132	VAL
46	l9	133	THR
46	l9	137	SER
46	l9	140	VAL
46	l9	143	GLU
46	l9	144	ILE
46	l9	151	VAL
46	l9	157	ASN
46	l9	161	LEU
46	l9	162	GLN
46	l9	170	LYS
46	l9	173	ARG
46	l9	188	THR
46	l9	190	ASP
46	l9	191	LEU
47	m0	4	ARG
47	m0	7	ARG
47	m0	26	VAL
47	m0	31	ILE
47	m0	32	ARG
47	m0	35	ASP
47	m0	36	LEU
47	m0	42	THR
47	m0	44	ASP
47	m0	48	LEU
47	m0	52	LEU
47	m0	53	VAL
47	m0	58	GLU
47	m0	63	GLU
47	m0	71	CYS
47	m0	76	MET
47	m0	87	LEU
47	m0	90	ARG
47	m0	91	VAL
47	m0	99	ILE

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Mol	Chain	Res	Type
47	m0	101	LYS
47	m0	133	GLN
47	m0	145	LYS
47	m0	153	ARG
47	m0	154	ARG
47	m0	156	ARG
47	m0	162	GLN
47	m0	163	GLN
47	m0	167	LEU
47	m0	169	LYS
47	m0	170	LYS
47	m0	176	LEU
47	m0	177	ASP
47	m0	178	ARG
47	m0	182	LEU
47	m0	183	LYS
47	m0	186	GLU
47	m0	191	LYS
47	m0	205	SER
47	m0	211	ARG
47	m0	212	GLU
47	m0	217	PHE
48	m1	6	GLN
48	m1	10	ARG
48	m1	12	LEU
48	m1	13	LYS
48	m1	30	LEU
48	m1	31	THR
48	m1	44	THR
48	m1	46	VAL
48	m1	54	VAL
48	m1	56	THR
48	m1	71	VAL
48	m1	80	LEU
48	m1	85	LYS
48	m1	101	ASN
48	m1	106	ILE
48	m1	107	ASP
48	m1	112	LEU
48	m1	122	ILE
48	m1	129	VAL
48	m1	130	VAL

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Mol	Chain	Res	Type
48	m1	137	ARG
48	m1	139	THR
48	m1	153	LYS
48	m1	155	THR
48	m1	159	THR
48	m1	160	VAL
48	m1	166	LYS
48	m1	171	VAL
48	m1	174	LYS
49	m3	5	LYS
49	m3	16	LYS
49	m3	54	LEU
49	m3	55	ARG
49	m3	58	VAL
49	m3	59	ARG
49	m3	63	VAL
49	m3	68	LYS
49	m3	73	ARG
49	m3	85	LEU
49	m3	93	ILE
49	m3	107	GLU
49	m3	118	GLU
49	m3	122	LYS
49	m3	131	LYS
49	m3	149	GLN
49	m3	152	THR
49	m3	164	GLU
49	m3	168	ARG
49	m3	184	GLU
49	m3	194	GLU
50	m4	3	THR
50	m4	6	ILE
50	m4	20	VAL
50	m4	21	VAL
50	m4	24	LYS
50	m4	41	GLN
50	m4	50	LYS
50	m4	62	GLN
50	m4	63	VAL
50	m4	64	VAL
50	m4	72	LEU
50	m4	80	THR

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Mol	Chain	Res	Type
50	m4	90	VAL
50	m4	107	GLU
50	m4	108	ARG
50	m4	116	GLU
50	m4	123	LEU
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	22	LEU
51	m5	24	ARG
51	m5	27	VAL
51	m5	49	ARG
51	m5	60	VAL
51	m5	67	ARG
51	m5	75	VAL
51	m5	80	THR
51	m5	83	LYS
51	m5	85	THR
51	m5	92	LEU
51	m5	97	SER
51	m5	98	LEU
51	m5	104	GLU
51	m5	105	ARG
51	m5	114	ARG
51	m5	135	VAL
51	m5	138	GLN
51	m5	155	VAL
51	m5	159	ARG
51	m5	175	ASN
51	m5	176	LYS
51	m5	183	THR
51	m5	190	THR
51	m5	198	SER
51	m5	204	LYS
52	m6	3	VAL
52	m6	12	LYS
52	m6	22	VAL
52	m6	25	LYS

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Mol	Chain	Res	Type
52	m6	34	VAL
52	m6	41	LEU
52	m6	58	LEU
52	m6	67	THR
52	m6	74	ARG
52	m6	78	ARG
52	m6	79	ILE
52	m6	84	LEU
52	m6	85	ARG
52	m6	100	GLU
52	m6	106	GLU
52	m6	108	ILE
52	m6	117	ARG
52	m6	119	VAL
52	m6	124	LEU
52	m6	126	VAL
52	m6	128	ARG
52	m6	129	LEU
52	m6	140	LYS
52	m6	143	THR
52	m6	152	VAL
52	m6	166	GLU
52	m6	170	LYS
52	m6	171	LYS
52	m6	175	THR
52	m6	180	SER
52	m6	182	ASN
52	m6	184	THR
52	m6	190	VAL
52	m6	197	LEU
53	m7	7	THR
53	m7	9	THR
53	m7	23	ARG
53	m7	24	VAL
53	m7	29	THR
53	m7	31	GLU
53	m7	32	THR
53	m7	41	LEU
53	m7	42	THR
53	m7	43	LYS
53	m7	52	LEU
53	m7	56	ARG

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Mol	Chain	Res	Type
53	m7	67	ILE
53	m7	69	ARG
53	m7	78	VAL
53	m7	79	THR
53	m7	80	LYS
53	m7	82	ARG
53	m7	86	LYS
53	m7	89	LYS
53	m7	91	VAL
53	m7	96	GLN
53	m7	107	LEU
53	m7	112	LEU
53	m7	114	VAL
53	m7	118	GLN
53	m7	121	GLN
53	m7	127	ARG
53	m7	144	SER
53	m7	148	LEU
53	m7	149	VAL
53	m7	153	LYS
53	m7	155	GLU
54	m8	3	ILE
54	m8	7	SER
54	m8	12	ARG
54	m8	23	ASN
54	m8	24	VAL
54	m8	26	LEU
54	m8	32	LEU
54	m8	34	THR
54	m8	46	LYS
54	m8	49	LEU
54	m8	57	ILE
54	m8	63	SER
54	m8	64	VAL
54	m8	74	GLU
54	m8	80	THR
54	m8	81	VAL
54	m8	82	VAL
54	m8	93	ILE
54	m8	105	ARG
54	m8	111	ARG
54	m8	113	LYS

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Mol	Chain	Res	Type
54	m8	115	VAL
54	m8	127	LEU
54	m8	135	GLN
54	m8	137	THR
54	m8	138	LEU
54	m8	141	ARG
54	m8	159	LYS
54	m8	161	LYS
54	m8	165	ILE
54	m8	170	ARG
54	m8	174	ARG
55	m9	10	LEU
55	m9	29	THR
55	m9	36	ASN
55	m9	43	LYS
55	m9	49	THR
55	m9	52	LYS
55	m9	55	VAL
55	m9	63	THR
55	m9	70	LYS
55	m9	71	ARG
55	m9	74	ARG
55	m9	76	SER
55	m9	88	ARG
55	m9	99	LEU
55	m9	116	ASP
55	m9	128	LYS
55	m9	138	LEU
55	m9	150	GLN
55	m9	152	GLU
55	m9	153	LYS
55	m9	156	ASN
55	m9	158	GLU
55	m9	164	LEU
55	m9	171	ASP
55	m9	173	ARG
55	m9	177	VAL
55	m9	180	LYS
56	n0	1	MET
56	n0	8	GLN
56	n0	13	ARG
56	n0	17	GLU

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Mol	Chain	Res	Type
56	n0	18	SER
56	n0	21	GLU
56	n0	23	LYS
56	n0	45	LEU
56	n0	50	LYS
56	n0	51	VAL
56	n0	52	LYS
56	n0	60	SER
56	n0	70	THR
56	n0	80	ARG
56	n0	87	THR
56	n0	88	HIS
56	n0	89	ASN
56	n0	92	LYS
56	n0	97	VAL
56	n0	100	VAL
56	n0	104	GLU
56	n0	105	THR
56	n0	115	ARG
56	n0	117	ARG
56	n0	121	ILE
56	n0	125	LYS
56	n0	130	GLU
56	n0	131	LYS
56	n0	132	THR
56	n0	135	VAL
56	n0	136	LYS
56	n0	137	ARG
56	n0	142	GLN
56	n0	148	LEU
56	n0	149	LYS
56	n0	155	ARG
56	n0	157	GLN
56	n0	162	THR
56	n0	172	TYR
57	n1	12	ARG
57	n1	25	VAL
57	n1	27	LEU
57	n1	36	VAL
57	n1	47	SER
57	n1	55	LYS
57	n1	64	VAL

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Mol	Chain	Res	Type
57	n1	68	THR
57	n1	71	SER
57	n1	75	ILE
57	n1	78	LYS
57	n1	80	VAL
57	n1	83	ARG
57	n1	88	ARG
57	n1	89	LEU
57	n1	96	ILE
57	n1	102	ARG
57	n1	103	GLN
57	n1	104	GLU
57	n1	124	VAL
57	n1	126	VAL
57	n1	127	GLN
57	n1	131	GLN
57	n1	139	ARG
57	n1	141	VAL
57	n1	143	THR
57	n1	146	ASN
57	n1	149	GLN
57	n1	150	THR
57	n1	160	ILE
58	n2	14	THR
58	n2	16	THR
58	n2	20	SER
58	n2	27	VAL
58	n2	37	LEU
58	n2	43	VAL
58	n2	50	LEU
58	n2	54	VAL
58	n2	63	VAL
58	n2	64	THR
58	n2	65	VAL
58	n2	66	VAL
58	n2	94	ARG
58	n2	96	VAL
58	n2	97	SER
58	n2	98	THR
58	n2	105	LEU
59	n3	4	ASN
59	n3	7	GLN

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Mol	Chain	Res	Type
59	n3	13	ILE
59	n3	14	SER
59	n3	32	ARG
59	n3	42	SER
59	n3	45	ARG
59	n3	46	LEU
59	n3	48	ARG
59	n3	64	LYS
59	n3	69	LEU
59	n3	72	LYS
59	n3	74	MET
59	n3	88	ARG
59	n3	91	VAL
59	n3	120	LYS
59	n3	125	LEU
59	n3	135	VAL
83	n4	1	MET
83	n4	5	ILE
83	n4	39	LEU
83	n4	54	LEU
83	n4	63	ILE
83	n4	82	ILE
83	n4	96	LEU
83	n4	97	LYS
83	n4	99	GLU
83	n4	100	VAL
83	n4	107	GLU
83	n4	127	LYS
83	n4	130	SER
83	n4	134	GLN
61	n5	24	LEU
61	n5	27	ARG
61	n5	34	LEU
61	n5	37	THR
61	n5	39	LYS
61	n5	45	LYS
61	n5	49	LYS
61	n5	51	VAL
61	n5	56	ARG
61	n5	63	ILE
61	n5	71	THR
61	n5	81	ILE

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Mol	Chain	Res	Type
61	n5	86	VAL
61	n5	104	GLU
61	n5	107	VAL
61	n5	108	LEU
61	n5	109	LYS
61	n5	112	THR
61	n5	115	ARG
61	n5	125	ARG
61	n5	127	THR
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	62	SER
62	n6	64	LYS
62	n6	66	GLN
62	n6	69	LYS
62	n6	70	ILE
62	n6	76	LEU
62	n6	80	VAL
62	n6	89	LYS
62	n6	94	SER
62	n6	95	VAL
62	n6	106	ILE
62	n6	115	ARG
62	n6	120	GLN
62	n6	126	LEU
62	n6	127	GLU
63	n7	3	LYS

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Mol	Chain	Res	Type
63	n7	5	LEU
63	n7	14	VAL
63	n7	24	VAL
63	n7	31	GLU
63	n7	33	SER
63	n7	36	HIS
63	n7	52	LYS
63	n7	53	VAL
63	n7	72	ILE
63	n7	75	VAL
63	n7	81	LEU
63	n7	83	THR
63	n7	86	THR
63	n7	94	SER
63	n7	95	VAL
63	n7	99	GLU
63	n7	100	THR
63	n7	102	GLU
63	n7	103	GLN
63	n7	134	LEU
64	n8	4	ARG
64	n8	6	THR
64	n8	7	LYS
64	n8	8	THR
64	n8	10	LYS
64	n8	12	ARG
64	n8	14	HIS
64	n8	15	VAL
64	n8	25	HIS
64	n8	27	LYS
64	n8	34	MET
64	n8	42	ARG
64	n8	46	ASP
64	n8	47	LYS
64	n8	56	VAL
64	n8	65	GLN
64	n8	72	VAL
64	n8	78	LEU
64	n8	84	GLU
64	n8	85	ASP
64	n8	89	GLN
64	n8	91	LEU

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Mol	Chain	Res	Type
64	n8	97	GLU
64	n8	98	THR
64	n8	115	LYS
64	n8	124	ILE
64	n8	132	LYS
64	n8	133	LEU
65	n9	3	LYS
65	n9	14	ARG
65	n9	21	ILE
65	n9	23	LYS
65	n9	26	THR
65	n9	31	SER
65	n9	38	LYS
65	n9	54	LEU
65	n9	58	LYS
65	n9	59	LYS
66	o0	8	GLU
66	o0	10	ILE
66	o0	16	LEU
66	o0	17	VAL
66	o0	18	ILE
66	o0	19	LYS
66	o0	41	LEU
66	o0	43	ILE
66	o0	44	ILE
66	o0	55	GLU
66	o0	74	ASN
66	o0	76	GLU
66	o0	83	LYS
66	o0	86	ARG
66	o0	87	VAL
66	o0	90	VAL
66	o0	100	ILE
66	o0	101	LEU
66	o0	103	THR
67	o1	6	ASP
67	o1	8	VAL
67	o1	13	THR
67	o1	16	LEU
67	o1	31	ARG
67	o1	34	LYS
67	o1	42	LEU

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Mol	Chain	Res	Type
67	o1	44	MET
67	o1	55	LEU
67	o1	61	LYS
67	o1	64	VAL
67	o1	65	LYS
67	o1	68	GLU
67	o1	76	SER
67	o1	84	ASP
67	o1	96	VAL
67	o1	97	LEU
67	o1	98	VAL
67	o1	102	LYS
67	o1	106	THR
67	o1	107	VAL
67	o1	110	GLU
67	o1	111	GLU
68	o2	3	SER
68	o2	4	LEU
68	o2	8	LYS
68	o2	14	THR
68	o2	16	LYS
68	o2	19	ARG
68	o2	24	ARG
68	o2	31	ASN
68	o2	33	ARG
68	o2	35	GLN
68	o2	36	LYS
68	o2	41	VAL
68	o2	51	SER
68	o2	54	LYS
68	o2	73	THR
68	o2	75	LEU
68	o2	82	LEU
68	o2	89	THR
68	o2	95	GLU
68	o2	106	VAL
68	o2	125	ARG
68	o2	126	LEU
69	o3	4	SER
69	o3	31	LYS
69	o3	49	ILE
69	o3	70	LYS

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Mol	Chain	Res	Type
69	o3	73	ARG
69	o3	74	THR
69	o3	81	VAL
69	o3	84	THR
69	o3	86	ARG
69	o3	98	VAL
70	o4	5	VAL
70	o4	20	ILE
70	o4	22	VAL
70	o4	23	VAL
70	o4	24	LYS
70	o4	30	LEU
70	o4	46	ASP
70	o4	58	ARG
70	o4	65	VAL
70	o4	81	CYS
70	o4	83	ASN
70	o4	85	VAL
70	o4	88	ARG
70	o4	102	LYS
70	o4	104	VAL
70	o4	105	VAL
71	o5	4	VAL
71	o5	15	GLU
71	o5	20	GLN
71	o5	21	LEU
71	o5	27	GLU
71	o5	36	LEU
71	o5	37	SER
71	o5	45	LYS
71	o5	47	VAL
71	o5	62	GLN
71	o5	81	ARG
71	o5	85	THR
71	o5	89	ARG
71	o5	90	ARG
71	o5	101	THR
71	o5	119	LYS
72	o6	2	THR
72	o6	5	THR
72	o6	7	ILE
72	o6	9	ILE

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Mol	Chain	Res	Type
72	o6	11	LEU
72	o6	17	VAL
72	o6	21	THR
72	o6	26	ILE
72	o6	29	LYS
72	o6	35	ASN
72	o6	36	ARG
72	o6	37	THR
72	o6	40	VAL
72	o6	43	LEU
72	o6	45	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	59	ASP
72	o6	60	LEU
72	o6	62	ARG
72	o6	71	LYS
72	o6	84	LYS
72	o6	94	ILE
72	o6	98	ARG
73	o7	3	LYS
73	o7	17	THR
73	o7	24	ARG
73	o7	25	ARG
73	o7	30	GLN
73	o7	33	THR
73	o7	44	THR
73	o7	46	SER
73	o7	55	ARG
73	o7	65	ARG
73	o7	67	LEU
73	o7	68	LYS
73	o7	75	LYS
73	o7	80	THR
74	o8	5	ILE
74	o8	12	LEU
74	o8	14	LEU
74	o8	17	ARG
74	o8	24	THR
74	o8	31	LEU
74	o8	41	THR
74	o8	45	VAL

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Mol	Chain	Res	Type
74	o8	46	ARG
74	o8	50	SER
74	o8	53	THR
74	o8	55	VAL
74	o8	61	LYS
74	o8	64	LYS
74	o8	65	LEU
74	o8	67	GLN
74	o8	78	LEU
75	o9	4	GLN
75	o9	12	LYS
75	o9	15	LYS
75	o9	17	LYS
75	o9	21	ARG
75	o9	23	LEU
75	o9	28	ARG
75	o9	29	LEU
76	q0	78	ILE
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	119	ASN
76	q0	127	LEU
76	q0	128	LYS
77	q1	2	ARG
77	q1	6	ARG
77	q1	9	ARG
77	q1	13	LEU
77	q1	19	LYS
77	q1	21	ARG
77	q1	23	ARG
78	q2	6	LYS
78	q2	7	THR
78	q2	8	ARG
78	q2	18	ARG
78	q2	20	HIS
78	q2	22	GLN
78	q2	26	THR
78	q2	46	LYS

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Mol	Chain	Res	Type
78	q2	47	GLN
78	q2	61	LYS
78	q2	64	THR
78	q2	69	VAL
78	q2	78	LYS
78	q2	83	LEU
78	q2	84	THR
78	q2	85	LEU
78	q2	93	LEU
78	q2	100	LYS
78	q2	104	LEU
78	q2	105	GLN
79	q3	5	THR
79	q3	20	SER
79	q3	24	ARG
79	q3	26	VAL
79	q3	30	GLU
79	q3	36	ARG
79	q3	40	SER
79	q3	42	CYS
79	q3	45	LYS
79	q3	48	LYS
79	q3	49	ARG
79	q3	54	ILE
79	q3	56	THR
79	q3	59	CYS
79	q3	70	THR
79	q3	79	VAL
79	q3	81	SER
79	q3	90	VAL
84	p0	4	ILE
84	p0	5	ARG
84	p0	6	GLU
84	p0	10	GLU
84	p0	25	LEU
84	p0	30	VAL
84	p0	42	ARG
84	p0	43	LYS
84	p0	51	VAL
84	p0	55	LYS
84	p0	58	MET
84	p0	67	LEU

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Mol	Chain	Res	Type
84	p0	68	SER
84	p0	70	LEU
84	p0	72	ASP
84	p0	76	LEU
84	p0	80	VAL
84	p0	81	LYS
84	p0	84	VAL
84	p0	91	GLU
84	p0	93	LEU
84	p0	97	LYS
84	p0	104	ARG
84	p0	185	LEU
84	p0	188	VAL
84	p0	189	GLN
84	p0	196	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (184) such sidechains are listed below:

Mol	Chain	Res	Type
2	S0	49	ASN
2	S0	92	HIS
2	S0	140	ASN
4	S2	82	ASN
5	S3	111	ASN
6	S4	67	GLN
6	S4	69	HIS
8	S6	22	HIS
8	S6	119	GLN
9	S7	42	GLN
9	S7	180	GLN
11	S9	110	GLN
11	S9	139	GLN
14	C2	80	ASN
15	C3	62	GLN
16	C4	29	HIS
18	C6	32	ASN
18	C6	103	ASN
19	C7	48	ASN
20	C8	104	ASN
21	C9	25	GLN
21	C9	70	GLN
21	C9	101	ASN

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Mol	Chain	Res	Type
22	D0	47	GLN
22	D0	87	HIS
23	D1	74	GLN
24	D2	39	GLN
24	D2	42	GLN
24	D2	56	HIS
26	D4	106	GLN
26	D4	110	GLN
27	D5	82	HIS
27	D5	95	HIS
27	D5	98	GLN
29	D7	42	ASN
29	D7	51	GLN
32	E0	17	GLN
33	E1	151	ASN
34	SR	101	GLN
34	SR	268	GLN
35	SM	50	ASN
39	L2	8	GLN
39	L2	139	HIS
39	L2	205	ASN
40	L3	371	GLN
41	L4	18	ASN
41	L4	311	HIS
42	L5	32	GLN
42	L5	40	HIS
42	L5	90	HIS
42	L5	244	HIS
44	L7	244	ASN
45	L8	38	GLN
46	L9	125	ASN
47	M0	175	ASN
48	M1	7	ASN
48	M1	39	GLN
48	M1	95	ASN
49	M3	114	GLN
49	M3	160	GLN
50	M4	62	GLN
51	M5	15	GLN
51	M5	57	GLN
51	M5	194	GLN
52	M6	31	GLN

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Mol	Chain	Res	Type
52	M6	50	ASN
52	M6	55	HIS
52	M6	182	ASN
53	M7	10	ASN
53	M7	34	GLN
54	M8	9	GLN
54	M8	45	ASN
55	M9	47	ASN
55	M9	166	ASN
56	N0	62	ASN
57	N1	26	HIS
57	N1	45	ASN
57	N1	149	GLN
58	N2	101	ASN
59	N3	98	ASN
60	N4	59	HIS
63	N7	122	HIS
63	N7	127	ASN
65	N9	11	ASN
65	N9	17	HIS
69	O3	75	HIS
70	O4	98	GLN
71	O5	68	GLN
71	O5	99	GLN
73	O7	12	HIS
73	O7	57	HIS
78	Q2	47	GLN
78	Q2	90	HIS
79	Q3	25	GLN
79	Q3	32	GLN
2	s0	140	ASN
3	s1	95	ASN
3	s1	146	GLN
3	s1	149	GLN
3	s1	209	ASN
4	s2	82	ASN
4	s2	150	GLN
6	s4	17	HIS
6	s4	216	ASN
7	s5	103	ASN
7	s5	104	ASN
7	s5	116	HIS

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Mol	Chain	Res	Type
9	s7	180	GLN
11	s9	110	GLN
11	s9	124	HIS
11	s9	142	ASN
12	c0	29	GLN
12	c0	39	ASN
12	c0	58	GLN
13	c1	14	GLN
14	c2	125	ASN
14	c2	142	GLN
15	c3	49	GLN
15	c3	105	ASN
17	c5	79	HIS
18	c6	100	GLN
18	c6	139	GLN
19	c7	62	GLN
19	c7	83	GLN
19	c7	104	ASN
20	c8	12	GLN
22	d0	48	HIS
22	d0	72	ASN
22	d0	105	GLN
24	d2	12	ASN
26	d4	22	GLN
26	d4	63	GLN
29	d7	51	GLN
31	d9	48	ASN
32	e0	17	GLN
33	e1	93	HIS
34	sR	288	HIS
34	sR	314	GLN
40	l3	182	GLN
40	l3	184	ASN
40	l3	224	HIS
40	l3	231	HIS
41	l4	5	GLN
41	l4	9	HIS
41	l4	116	ASN
42	l5	151	GLN
43	l6	97	ASN
81	l8	191	ASN
46	l9	8	GLN

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Mol	Chain	Res	Type
46	l9	50	ASN
48	m1	43	GLN
49	m3	129	ASN
51	m5	175	ASN
51	m5	195	ASN
52	m6	26	GLN
52	m6	31	GLN
52	m6	90	HIS
53	m7	92	GLN
55	m9	3	ASN
56	n0	62	ASN
56	n0	138	GLN
57	n1	103	GLN
57	n1	131	GLN
59	n3	7	GLN
61	n5	117	ASN
63	n7	36	HIS
63	n7	106	GLN
64	n8	28	HIS
64	n8	44	ASN
64	n8	49	HIS
64	n8	62	HIS
67	o1	15	ASN
68	o2	20	HIS
68	o2	49	ASN
68	o2	88	HIS
69	o3	106	ASN
70	o4	3	GLN
70	o4	61	GLN
71	o5	68	GLN
71	o5	113	GLN
72	o6	63	ASN
75	o9	32	ASN
76	q0	119	ASN
78	q2	22	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1778/1800 (98%)	484 (27%)	60 (3%)
1	6	1793/1800 (99%)	468 (26%)	52 (2%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
36	1	3145/3396 (92%)	673 (21%)	76 (2%)
36	5	3145/3396 (92%)	681 (21%)	67 (2%)
37	3	120/121 (99%)	15 (12%)	0
37	7	120/121 (99%)	19 (15%)	0
38	4	157/158 (99%)	35 (22%)	2 (1%)
38	8	157/158 (99%)	34 (21%)	3 (1%)
All	All	10415/10950 (95%)	2409 (23%)	260 (2%)

All (2409) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	17	C
1	2	21	U
1	2	25	C
1	2	26	A
1	2	27	U
1	2	34	G
1	2	42	G
1	2	44	U
1	2	45	U
1	2	46	A
1	2	47	A
1	2	57	G
1	2	60	U
1	2	66	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	95	G
1	2	103	A
1	2	104	A
1	2	114	C
1	2	115	G
1	2	131	C
1	2	132	U

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Mol	Chain	Res	Type
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	145	A
1	2	146	U
1	2	153	G
1	2	158	U
1	2	159	U
1	2	167	U
1	2	169	A
1	2	170	U
1	2	178	U
1	2	185	U
1	2	186	C
1	2	188	A
1	2	190	C
1	2	191	C
1	2	192	U
1	2	194	U
1	2	195	G
1	2	196	G
1	2	197	A
1	2	198	A
1	2	199	G
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	229	U
1	2	233	C
1	2	234	G
1	2	235	G
1	2	238	U
1	2	239	C

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Mol	Chain	Res	Type
1	2	240	U
1	2	241	U
1	2	242	U
1	2	249	U
1	2	250	C
1	2	257	A
1	2	260	U
1	2	261	U
1	2	262	U
1	2	265	A
1	2	266	A
1	2	267	U
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
1	2	288	A
1	2	290	G
1	2	299	A
1	2	302	U
1	2	309	C
1	2	314	C
1	2	316	A
1	2	320	U
1	2	321	C
1	2	322	G
1	2	333	A
1	2	337	G
1	2	338	C
1	2	352	A
1	2	359	A
1	2	360	A
1	2	361	C
1	2	378	A
1	2	387	A
1	2	390	G

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Mol	Chain	Res	Type
1	2	397	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	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	452	A
1	2	454	U
1	2	468	A
1	2	480	G
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

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Mol	Chain	Res	Type
1	2	512	A
1	2	513	U
1	2	514	G
1	2	515	A
1	2	516	G
1	2	519	C
1	2	520	A
1	2	527	A
1	2	532	U
1	2	534	A
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	545	A
1	2	548	G
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U
1	2	565	C
1	2	578	U
1	2	579	A
1	2	580	A
1	2	582	U
1	2	594	A
1	2	595	G
1	2	609	U
1	2	610	G
1	2	611	U
1	2	614	C
1	2	619	A
1	2	620	A
1	2	621	A
1	2	622	A
1	2	623	A
1	2	624	G
1	2	639	U
1	2	640	U

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Mol	Chain	Res	Type
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	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
1	2	711	U
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

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Mol	Chain	Res	Type
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	743	U
1	2	753	A
1	2	754	A
1	2	755	A
1	2	756	A
1	2	758	U
1	2	759	U
1	2	765	G
1	2	766	U
1	2	774	A
1	2	775	G
1	2	778	G
1	2	781	U
1	2	782	U
1	2	783	G
1	2	784	C
1	2	789	A
1	2	793	A
1	2	794	U
1	2	795	U
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	822	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

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Mol	Chain	Res	Type
1	2	841	U
1	2	854	U
1	2	856	A
1	2	862	A
1	2	863	A
1	2	864	U
1	2	876	G
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	916	U
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	966	A
1	2	988	A
1	2	992	A
1	2	993	A
1	2	997	G
1	2	1003	A
1	2	1004	U
1	2	1005	A
1	2	1026	A
1	2	1028	C
1	2	1039	A
1	2	1040	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	1066	C
1	2	1073	G
1	2	1075	C

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Mol	Chain	Res	Type
1	2	1080	U
1	2	1082	C
1	2	1083	G
1	2	1087	A
1	2	1091	A
1	2	1092	A
1	2	1096	C
1	2	1097	U
1	2	1098	U
1	2	1100	G
1	2	1109	G
1	2	1117	U
1	2	1138	A
1	2	1146	G
1	2	1149	G
1	2	1150	G
1	2	1151	A
1	2	1155	G
1	2	1157	A
1	2	1158	C
1	2	1160	A
1	2	1163	A
1	2	1167	G
1	2	1185	U
1	2	1191	U
1	2	1194	A
1	2	1196	A
1	2	1199	G
1	2	1200	G
1	2	1202	A
1	2	1207	C
1	2	1217	A
1	2	1218	G
1	2	1227	A
1	2	1228	G
1	2	1229	G
1	2	1241	G
1	2	1243	G
1	2	1244	A
1	2	1245	G
1	2	1251	U
1	2	1257	U

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Mol	Chain	Res	Type
1	2	1258	U
1	2	1275	A
1	2	1286	U
1	2	1292	G
1	2	1306	C
1	2	1307	U
1	2	1314	U
1	2	1315	U
1	2	1321	A
1	2	1337	A
1	2	1338	C
1	2	1340	U
1	2	1341	A
1	2	1344	A
1	2	1345	A
1	2	1354	G
1	2	1355	C
1	2	1361	U
1	2	1362	U
1	2	1363	U
1	2	1364	G
1	2	1370	U
1	2	1371	A
1	2	1372	U
1	2	1383	G
1	2	1388	A
1	2	1390	U
1	2	1398	U
1	2	1399	C
1	2	1412	G
1	2	1413	U
1	2	1414	U
1	2	1415	U
1	2	1427	A
1	2	1428	G
1	2	1433	G
1	2	1446	A
1	2	1448	G
1	2	1451	C
1	2	1456	C
1	2	1457	C
1	2	1458	G

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Mol	Chain	Res	Type
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	1475	A
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	1535	U
1	2	1536	G
1	2	1537	C
1	2	1538	U
1	2	1557	U
1	2	1559	A
1	2	1569	A
1	2	1574	G
1	2	1584	G
1	2	1590	G
1	2	1601	G
1	2	1614	A
1	2	1616	G
1	2	1619	C
1	2	1624	C
1	2	1631	A
1	2	1641	C
1	2	1657	U
1	2	1658	G

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Mol	Chain	Res	Type
1	2	1663	G
1	2	1680	G
1	2	1681	A
1	2	1682	U
1	2	1683	C
1	2	1684	U
1	2	1686	C
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	1719	A
1	2	1760	G
1	2	1761	U
1	2	1762	A
1	2	1766	A
1	2	1769	U
1	2	1770	U
1	2	1780	G
1	2	1782	A
1	2	1783	C
1	2	1788	G
1	2	1789	G
1	2	1792	G
1	2	1793	G
1	2	1794	A
1	2	1795	U
1	2	1796	C
36	1	13	A
36	1	14	U
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

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Mol	Chain	Res	Type
36	1	60	A
36	1	65	A
36	1	66	A
36	1	68	C
36	1	76	G
36	1	83	U
36	1	92	G
36	1	93	C
36	1	99	A
36	1	108	A
36	1	109	A
36	1	110	G
36	1	113	C
36	1	116	A
36	1	117	U
36	1	121	A
36	1	122	A
36	1	133	U
36	1	135	C
36	1	136	G
36	1	145	G
36	1	156	G
36	1	157	A
36	1	166	C
36	1	170	G
36	1	173	G
36	1	182	U
36	1	187	A
36	1	190	U
36	1	191	U
36	1	200	C
36	1	201	A
36	1	210	U
36	1	218	G
36	1	219	A
36	1	234	G
36	1	240	U
36	1	243	G
36	1	245	U
36	1	249	U
36	1	250	U
36	1	251	G

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Mol	Chain	Res	Type
36	1	252	U
36	1	265	A
36	1	269	G
36	1	282	G
36	1	283	G
36	1	286	U
36	1	295	A
36	1	298	U
36	1	315	C
36	1	323	A
36	1	329	U
36	1	339	C
36	1	343	U
36	1	349	A
36	1	350	C
36	1	351	A
36	1	368	G
36	1	374	A
36	1	376	G
36	1	391	A
36	1	395	A
36	1	398	A
36	1	399	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	420	G
36	1	421	G
36	1	422	A
36	1	438	A
36	1	440	A
36	1	495	G
36	1	498	A
36	1	516	A
36	1	520	U
36	1	521	A
36	1	535	G
36	1	543	C
36	1	544	C
36	1	546	C
36	1	547	G
36	1	548	G

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Mol	Chain	Res	Type
36	1	551	A
36	1	552	G
36	1	553	U
36	1	555	U
36	1	556	U
36	1	557	A
36	1	559	A
36	1	578	A
36	1	579	G
36	1	592	A
36	1	594	U
36	1	595	G
36	1	601	U
36	1	603	A
36	1	604	G
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	638	C
36	1	647	A
36	1	649	A
36	1	651	G
36	1	653	A
36	1	660	A
36	1	661	G
36	1	667	C
36	1	677	A
36	1	681	U
36	1	691	A
36	1	705	A
36	1	708	G
36	1	712	G
36	1	715	A
36	1	716	A
36	1	764	U
36	1	765	C
36	1	766	U
36	1	767	U

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Mol	Chain	Res	Type
36	1	772	U
36	1	776	U
36	1	777	U
36	1	781	G
36	1	785	G
36	1	787	G
36	1	801	A
36	1	806	A
36	1	816	A
36	1	817	A
36	1	830	A
36	1	849	C
36	1	861	C
36	1	871	U
36	1	874	U
36	1	878	G
36	1	879	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	925	A
36	1	937	G
36	1	943	U
36	1	944	C
36	1	953	G
36	1	959	C
36	1	960	U
36	1	962	A
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

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Mol	Chain	Res	Type
36	1	1000	C
36	1	1001	G
36	1	1002	A
36	1	1006	A
36	1	1010	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	1036	A
36	1	1037	C
36	1	1041	U
36	1	1047	A
36	1	1049	C
36	1	1052	U
36	1	1063	G
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	1087	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	1128	U
36	1	1131	G
36	1	1159	A
36	1	1160	C
36	1	1165	A

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Mol	Chain	Res	Type
36	1	1179	A
36	1	1180	A
36	1	1181	U
36	1	1182	A
36	1	1191	U
36	1	1192	C
36	1	1196	C
36	1	1197	A
36	1	1201	C
36	1	1205	A
36	1	1209	G
36	1	1216	C
36	1	1217	A
36	1	1218	U
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	1235	U
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	1251	A
36	1	1258	U
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1266	G
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1272	C
36	1	1274	A
36	1	1277	C

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Mol	Chain	Res	Type
36	1	1278	A
36	1	1279	C
36	1	1285	G
36	1	1287	A
36	1	1307	G
36	1	1308	A
36	1	1309	U
36	1	1313	G
36	1	1324	U
36	1	1330	A
36	1	1331	U
36	1	1333	C
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	1378	U
36	1	1386	A
36	1	1392	G
36	1	1399	A
36	1	1400	G
36	1	1405	U
36	1	1417	G
36	1	1419	A
36	1	1421	G
36	1	1425	U
36	1	1429	G
36	1	1434	G
36	1	1437	C
36	1	1446	A
36	1	1450	G
36	1	1455	U
36	1	1465	A
36	1	1481	A
36	1	1482	A
36	1	1485	G
36	1	1503	A

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Mol	Chain	Res	Type
36	1	1508	C
36	1	1515	A
36	1	1527	C
36	1	1529	A
36	1	1533	U
36	1	1556	C
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	1576	G
36	1	1579	C
36	1	1580	A
36	1	1582	C
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1593	A
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	1705	U
36	1	1706	C
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1735	G
36	1	1736	G

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Mol	Chain	Res	Type
36	1	1741	A
36	1	1742	U
36	1	1750	A
36	1	1751	G
36	1	1761	C
36	1	1762	C
36	1	1763	U
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1770	G
36	1	1775	G
36	1	1780	G
36	1	1783	U
36	1	1797	A
36	1	1809	A
36	1	1810	A
36	1	1812	G
36	1	1814	A
36	1	1816	A
36	1	1817	G
36	1	1818	U
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1839	A
36	1	1841	A
36	1	1842	A
36	1	1845	G
36	1	1846	C
36	1	1849	C
36	1	1850	A
36	1	1866	C
36	1	1879	A
36	1	1886	A
36	1	1893	A
36	1	1895	A
36	1	1903	U
36	1	1906	G
36	1	1927	G
36	1	1935	G
36	1	1951	C

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Mol	Chain	Res	Type
36	1	1952	G
36	1	1953	G
36	1	1954	G
36	1	2094	C
36	1	2101	C
36	1	2102	U
36	1	2111	G
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2115	G
36	1	2116	G
36	1	2121	G
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	2168	A
36	1	2169	G
36	1	2188	A
36	1	2198	A
36	1	2205	U
36	1	2206	G
36	1	2208	A
36	1	2209	U
36	1	2210	G
36	1	2228	A
36	1	2244	A
36	1	2249	G
36	1	2250	G
36	1	2254	U
36	1	2255	A
36	1	2256	A
36	1	2262	A
36	1	2272	G
36	1	2273	G
36	1	2279	A
36	1	2281	A
36	1	2282	U
36	1	2284	C

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Mol	Chain	Res	Type
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	2336	U
36	1	2361	A
36	1	2367	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2385	G
36	1	2388	U
36	1	2393	G
36	1	2394	G
36	1	2397	A
36	1	2401	A
36	1	2402	A
36	1	2403	G
36	1	2406	C
36	1	2411	U
36	1	2418	G
36	1	2419	A
36	1	2437	G
36	1	2444	C
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2507	C
36	1	2514	U
36	1	2515	A
36	1	2522	G
36	1	2523	A
36	1	2532	U
36	1	2533	G
36	1	2534	G
36	1	2537	U
36	1	2538	U
36	1	2539	C
36	1	2540	A
36	1	2541	U

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Mol	Chain	Res	Type
36	1	2542	U
36	1	2543	U
36	1	2547	A
36	1	2548	C
36	1	2549	G
36	1	2551	U
36	1	2552	C
36	1	2554	A
36	1	2555	G
36	1	2560	C
36	1	2561	A
36	1	2567	C
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	2582	C
36	1	2585	G
36	1	2586	G
36	1	2589	G
36	1	2593	A
36	1	2594	C
36	1	2606	G
36	1	2607	G
36	1	2614	G
36	1	2637	A
36	1	2638	C
36	1	2652	U
36	1	2656	A
36	1	2672	G
36	1	2674	A
36	1	2677	G
36	1	2681	U
36	1	2689	A
36	1	2690	G
36	1	2691	A
36	1	2694	A
36	1	2695	A
36	1	2696	A

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Mol	Chain	Res	Type
36	1	2704	A
36	1	2714	G
36	1	2728	G
36	1	2729	U
36	1	2737	C
36	1	2744	U
36	1	2752	U
36	1	2753	G
36	1	2755	C
36	1	2772	C
36	1	2777	G
36	1	2778	G
36	1	2780	A
36	1	2796	G
36	1	2799	A
36	1	2800	G
36	1	2801	A
36	1	2803	A
36	1	2810	C
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	2837	A
36	1	2842	U
36	1	2843	U
36	1	2845	A
36	1	2847	A
36	1	2849	C
36	1	2853	A
36	1	2856	G
36	1	2860	U
36	1	2867	C
36	1	2871	G
36	1	2872	A
36	1	2875	U
36	1	2887	A
36	1	2889	C
36	1	2896	A
36	1	2898	G

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Mol	Chain	Res	Type
36	1	2899	C
36	1	2923	U
36	1	2935	U
36	1	2936	A
36	1	2937	G
36	1	2938	G
36	1	2939	G
36	1	2942	C
36	1	2943	G
36	1	2946	A
36	1	2947	G
36	1	2954	U
36	1	2971	A
36	1	2974	U
36	1	2977	G
36	1	2983	C
36	1	2990	G
36	1	2992	U
36	1	2996	U
36	1	2997	G
36	1	3012	A
36	1	3034	C
36	1	3054	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	3134	A
36	1	3139	A
36	1	3142	A
36	1	3143	C
36	1	3151	U
36	1	3153	U
36	1	3154	C

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Mol	Chain	Res	Type
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
36	1	3179	U
36	1	3181	C
36	1	3187	A
36	1	3195	U
36	1	3196	U
36	1	3197	G
36	1	3198	U
36	1	3207	U
36	1	3210	A
36	1	3217	C
36	1	3218	A
36	1	3219	G
36	1	3220	G
36	1	3228	C
36	1	3229	G
36	1	3235	C
36	1	3243	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3253	G
36	1	3259	U
36	1	3263	G
36	1	3269	U
36	1	3270	U
36	1	3272	C
36	1	3276	G
36	1	3279	A
36	1	3281	U
36	1	3286	G

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Mol	Chain	Res	Type
36	1	3287	U
36	1	3288	G
36	1	3289	G
36	1	3293	U
36	1	3294	A
36	1	3295	A
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
36	1	3344	A
36	1	3345	G
36	1	3349	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	3360	C
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	41	G
37	3	51	A
37	3	53	U
37	3	54	U
37	3	65	G

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Mol	Chain	Res	Type
37	3	74	C
37	3	76	A
37	3	91	G
37	3	101	G
37	3	102	A
37	3	112	G
37	3	121	U
38	4	2	A
38	4	21	C
38	4	26	U
38	4	34	U
38	4	35	C
38	4	48	A
38	4	57	C
38	4	58	G
38	4	59	A
38	4	60	U
38	4	62	C
38	4	63	G
38	4	75	G
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	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	113	U
38	4	125	U
38	4	126	A
38	4	138	A
38	4	152	G
38	4	155	A
38	4	157	U
38	4	158	U

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Mol	Chain	Res	Type
1	6	2	A
1	6	4	C
1	6	17	C
1	6	25	C
1	6	26	A
1	6	27	U
1	6	34	G
1	6	47	A
1	6	57	G
1	6	60	U
1	6	61	A
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	85	A
1	6	100	A
1	6	103	A
1	6	104	A
1	6	113	U
1	6	114	C
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	177	U
1	6	178	U
1	6	181	A
1	6	185	U

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Mol	Chain	Res	Type
1	6	188	A
1	6	190	C
1	6	191	C
1	6	192	U
1	6	193	U
1	6	195	G
1	6	198	A
1	6	199	G
1	6	200	A
1	6	215	A
1	6	216	U
1	6	217	A
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	230	C
1	6	232	U
1	6	233	C
1	6	235	G
1	6	240	U
1	6	241	U
1	6	249	U
1	6	250	C
1	6	260	U
1	6	261	U
1	6	265	A
1	6	271	A
1	6	272	U
1	6	273	G
1	6	274	G
1	6	276	C
1	6	277	U
1	6	278	U
1	6	280	U
1	6	287	G
1	6	299	A
1	6	301	A
1	6	308	C

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Mol	Chain	Res	Type
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	343	C
1	6	352	A
1	6	359	A
1	6	360	A
1	6	361	C
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	417	A
1	6	418	G
1	6	419	G
1	6	421	A
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	468	A
1	6	470	A
1	6	475	A
1	6	484	C
1	6	485	A
1	6	486	G
1	6	487	G
1	6	488	G
1	6	489	C

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Mol	Chain	Res	Type
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
1	6	511	A
1	6	512	A
1	6	513	U
1	6	515	A
1	6	517	U
1	6	527	A
1	6	534	A
1	6	536	C
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	551	G
1	6	557	G
1	6	558	U
1	6	559	C
1	6	564	G
1	6	565	C
1	6	566	C
1	6	570	A
1	6	574	G
1	6	578	U
1	6	579	A
1	6	580	A
1	6	582	U

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Mol	Chain	Res	Type
1	6	594	A
1	6	595	G
1	6	601	A
1	6	606	A
1	6	609	U
1	6	610	G
1	6	611	U
1	6	617	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
1	6	639	U
1	6	640	U
1	6	648	G
1	6	650	U
1	6	652	G
1	6	653	C
1	6	658	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

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Mol	Chain	Res	Type
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	742	U
1	6	743	U
1	6	751	G
1	6	753	A
1	6	754	A
1	6	755	A
1	6	756	A
1	6	764	U
1	6	765	G
1	6	767	U
1	6	773	C
1	6	774	A
1	6	775	G
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	828	U
1	6	829	A
1	6	830	U

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Mol	Chain	Res	Type
1	6	831	U
1	6	832	U
1	6	834	G
1	6	835	U
1	6	856	A
1	6	861	U
1	6	863	A
1	6	864	U
1	6	873	U
1	6	886	U
1	6	898	A
1	6	911	U
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
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	983	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	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

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Mol	Chain	Res	Type
1	6	1059	U
1	6	1060	U
1	6	1061	A
1	6	1063	U
1	6	1072	C
1	6	1081	A
1	6	1082	C
1	6	1092	A
1	6	1096	C
1	6	1097	U
1	6	1098	U
1	6	1099	U
1	6	1100	G
1	6	1101	G
1	6	1109	G
1	6	1137	A
1	6	1138	A
1	6	1139	A
1	6	1151	A
1	6	1155	G
1	6	1158	C
1	6	1159	C
1	6	1160	A
1	6	1162	C
1	6	1164	G
1	6	1167	G
1	6	1183	A
1	6	1185	U
1	6	1194	A
1	6	1196	A
1	6	1199	G
1	6	1200	G
1	6	1202	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

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Mol	Chain	Res	Type
1	6	1231	U
1	6	1239	U
1	6	1240	U
1	6	1242	A
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	1259	U
1	6	1262	U
1	6	1275	A
1	6	1286	U
1	6	1288	G
1	6	1314	U
1	6	1315	U
1	6	1316	G
1	6	1319	A
1	6	1321	A
1	6	1335	U
1	6	1337	A
1	6	1338	C
1	6	1341	A
1	6	1343	U
1	6	1344	A
1	6	1345	A
1	6	1346	A
1	6	1354	G
1	6	1361	U
1	6	1363	U
1	6	1364	G
1	6	1367	G
1	6	1371	A
1	6	1372	U
1	6	1383	G
1	6	1388	A
1	6	1390	U
1	6	1398	U
1	6	1399	C

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Mol	Chain	Res	Type
1	6	1400	A
1	6	1402	G
1	6	1413	U
1	6	1415	U
1	6	1425	A
1	6	1427	A
1	6	1428	G
1	6	1433	G
1	6	1445	G
1	6	1446	A
1	6	1448	G
1	6	1458	G
1	6	1459	C
1	6	1461	C
1	6	1471	A
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	1496	U
1	6	1506	G
1	6	1514	U
1	6	1515	A
1	6	1516	A
1	6	1523	G
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	1573	A
1	6	1574	G

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Mol	Chain	Res	Type
1	6	1584	G
1	6	1590	G
1	6	1601	G
1	6	1603	U
1	6	1616	G
1	6	1620	C
1	6	1621	U
1	6	1634	C
1	6	1635	A
1	6	1637	C
1	6	1638	G
1	6	1656	U
1	6	1657	U
1	6	1658	G
1	6	1680	G
1	6	1683	C
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	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
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	1789	G

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Mol	Chain	Res	Type
1	6	1792	G
1	6	1793	G
1	6	1794	A
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	44	U
36	5	45	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	73	C
36	5	76	G
36	5	83	U
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	113	C
36	5	116	A
36	5	120	G
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

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Mol	Chain	Res	Type
36	5	165	A
36	5	166	C
36	5	170	G
36	5	171	G
36	5	172	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	210	U
36	5	218	G
36	5	219	A
36	5	220	G
36	5	221	A
36	5	227	G
36	5	239	G
36	5	240	U
36	5	243	G
36	5	244	G
36	5	246	U
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	259	C
36	5	269	G
36	5	270	U
36	5	284	A
36	5	286	U
36	5	295	A
36	5	298	U
36	5	310	U
36	5	315	C

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Mol	Chain	Res	Type
36	5	316	U
36	5	323	A
36	5	329	U
36	5	339	C
36	5	349	A
36	5	350	C
36	5	351	A
36	5	370	U
36	5	375	A
36	5	376	G
36	5	398	A
36	5	399	A
36	5	401	U
36	5	402	A
36	5	403	C
36	5	404	G
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	440	A
36	5	441	U
36	5	442	G
36	5	492	U
36	5	521	A
36	5	532	A
36	5	535	G
36	5	542	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	578	A
36	5	579	G
36	5	592	A
36	5	594	U
36	5	595	G
36	5	600	G

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Mol	Chain	Res	Type
36	5	604	G
36	5	608	A
36	5	609	G
36	5	611	A
36	5	612	U
36	5	619	A
36	5	620	U
36	5	621	A
36	5	636	C
36	5	640	U
36	5	647	A
36	5	649	A
36	5	651	G
36	5	653	A
36	5	660	A
36	5	661	G
36	5	675	C
36	5	677	A
36	5	680	G
36	5	681	U
36	5	683	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	727	G
36	5	758	C
36	5	766	U
36	5	767	U
36	5	776	U
36	5	777	U
36	5	778	U
36	5	780	A
36	5	781	G
36	5	785	G
36	5	786	A
36	5	806	A
36	5	817	A
36	5	830	A

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Mol	Chain	Res	Type
36	5	851	C
36	5	861	C
36	5	874	U
36	5	879	U
36	5	885	U
36	5	896	A
36	5	907	G
36	5	908	G
36	5	909	G
36	5	914	A
36	5	916	G
36	5	917	A
36	5	921	A
36	5	924	G
36	5	937	G
36	5	944	C
36	5	953	G
36	5	959	C
36	5	960	U
36	5	961	C
36	5	963	G
36	5	973	A
36	5	979	U
36	5	983	A
36	5	993	G
36	5	994	G
36	5	1000	C
36	5	1001	G
36	5	1002	A
36	5	1006	A
36	5	1010	G
36	5	1015	U
36	5	1016	C
36	5	1017	C
36	5	1018	G
36	5	1019	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

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Mol	Chain	Res	Type
36	5	1029	G
36	5	1032	C
36	5	1033	U
36	5	1035	G
36	5	1047	A
36	5	1049	C
36	5	1064	A
36	5	1065	A
36	5	1072	G
36	5	1081	U
36	5	1082	U
36	5	1085	A
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	1174	G
36	5	1180	A
36	5	1181	U
36	5	1182	A
36	5	1190	A
36	5	1191	U
36	5	1192	C
36	5	1193	A
36	5	1196	C
36	5	1197	A
36	5	1201	C
36	5	1202	A
36	5	1209	G
36	5	1222	G
36	5	1232	C
36	5	1236	G
36	5	1237	G

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Mol	Chain	Res	Type
36	5	1239	C
36	5	1241	U
36	5	1242	G
36	5	1243	G
36	5	1245	A
36	5	1246	G
36	5	1252	A
36	5	1258	U
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	1307	G
36	5	1308	A
36	5	1309	U
36	5	1329	U
36	5	1330	A
36	5	1331	U
36	5	1349	G
36	5	1351	U
36	5	1352	A
36	5	1353	U
36	5	1355	A
36	5	1356	U
36	5	1357	G
36	5	1385	C
36	5	1386	A
36	5	1387	G
36	5	1391	C
36	5	1392	G
36	5	1398	U
36	5	1399	A
36	5	1400	G
36	5	1418	A
36	5	1419	A
36	5	1420	C
36	5	1421	G
36	5	1429	G
36	5	1431	G

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Mol	Chain	Res	Type
36	5	1433	A
36	5	1434	G
36	5	1437	C
36	5	1446	A
36	5	1450	G
36	5	1455	U
36	5	1465	A
36	5	1481	A
36	5	1482	A
36	5	1490	A
36	5	1503	A
36	5	1508	C
36	5	1514	G
36	5	1533	U
36	5	1536	G
36	5	1553	U
36	5	1554	U
36	5	1555	U
36	5	1556	C
36	5	1558	A
36	5	1560	G
36	5	1561	G
36	5	1562	C
36	5	1563	C
36	5	1565	G
36	5	1566	A
36	5	1567	U
36	5	1568	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	1581	C
36	5	1583	A
36	5	1587	A
36	5	1589	A

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Mol	Chain	Res	Type
36	5	1590	G
36	5	1605	A
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	1658	G
36	5	1683	A
36	5	1716	U
36	5	1717	U
36	5	1718	G
36	5	1724	U
36	5	1725	C
36	5	1736	G
36	5	1750	A
36	5	1751	G
36	5	1756	C
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	1793	C
36	5	1797	A
36	5	1808	G
36	5	1810	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
36	5	1820	U
36	5	1821	U
36	5	1839	A

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Mol	Chain	Res	Type
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	1893	A
36	5	1906	G
36	5	1907	C
36	5	1909	A
36	5	1952	G
36	5	1953	G
36	5	2100	A
36	5	2101	C
36	5	2102	U
36	5	2112	U
36	5	2113	A
36	5	2121	G
36	5	2122	G
36	5	2131	A
36	5	2134	G
36	5	2140	U
36	5	2144	A
36	5	2158	A
36	5	2169	G
36	5	2170	U
36	5	2187	G
36	5	2188	A
36	5	2192	C
36	5	2201	G
36	5	2205	U
36	5	2206	G
36	5	2208	A
36	5	2210	G
36	5	2228	A
36	5	2244	A
36	5	2245	C
36	5	2252	A
36	5	2253	G
36	5	2255	A

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Mol	Chain	Res	Type
36	5	2256	A
36	5	2257	C
36	5	2258	U
36	5	2264	U
36	5	2270	A
36	5	2273	G
36	5	2279	A
36	5	2281	A
36	5	2282	U
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	2330	C
36	5	2331	C
36	5	2334	U
36	5	2336	U
36	5	2372	A
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	2400	G
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	2438	A
36	5	2439	A
36	5	2440	G
36	5	2441	A
36	5	2443	A
36	5	2504	U

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Mol	Chain	Res	Type
36	5	2505	U
36	5	2506	U
36	5	2507	C
36	5	2508	U
36	5	2510	U
36	5	2511	A
36	5	2512	C
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	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	2562	A
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
36	5	2585	G
36	5	2589	G
36	5	2591	A
36	5	2593	A
36	5	2594	C
36	5	2606	G
36	5	2607	G

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Mol	Chain	Res	Type
36	5	2614	G
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	2681	U
36	5	2689	A
36	5	2690	G
36	5	2691	A
36	5	2694	A
36	5	2696	A
36	5	2705	A
36	5	2714	G
36	5	2716	U
36	5	2719	U
36	5	2720	G
36	5	2727	A
36	5	2728	G
36	5	2729	U
36	5	2746	A
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	2778	G
36	5	2779	A
36	5	2782	U
36	5	2796	G
36	5	2799	A
36	5	2800	G
36	5	2801	A
36	5	2810	C
36	5	2813	A
36	5	2814	G
36	5	2816	G
36	5	2817	A
36	5	2818	U
36	5	2819	A

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Mol	Chain	Res	Type
36	5	2829	U
36	5	2843	U
36	5	2845	A
36	5	2849	C
36	5	2852	C
36	5	2853	A
36	5	2861	U
36	5	2871	G
36	5	2872	A
36	5	2875	U
36	5	2887	A
36	5	2889	C
36	5	2896	A
36	5	2897	A
36	5	2899	C
36	5	2904	U
36	5	2922	G
36	5	2923	U
36	5	2928	C
36	5	2935	U
36	5	2936	A
36	5	2942	C
36	5	2947	G
36	5	2954	U
36	5	2957	G
36	5	2971	A
36	5	2972	G
36	5	2979	U
36	5	2983	C
36	5	2990	G
36	5	2992	U
36	5	2993	G
36	5	2996	U
36	5	2997	G
36	5	3003	G
36	5	3012	A
36	5	3028	G
36	5	3049	A
36	5	3056	U
36	5	3057	U
36	5	3059	G
36	5	3078	U

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Mol	Chain	Res	Type
36	5	3079	U
36	5	3086	A
36	5	3092	C
36	5	3104	U
36	5	3122	A
36	5	3123	A
36	5	3130	A
36	5	3131	U
36	5	3142	A
36	5	3143	C
36	5	3150	A
36	5	3153	U
36	5	3155	U
36	5	3156	U
36	5	3157	U
36	5	3158	G
36	5	3159	C
36	5	3164	C
36	5	3165	A
36	5	3167	A
36	5	3168	A
36	5	3171	U
36	5	3172	A
36	5	3173	G
36	5	3174	A
36	5	3175	U
36	5	3176	G
36	5	3178	A
36	5	3179	U
36	5	3180	A
36	5	3181	C
36	5	3187	A
36	5	3195	U
36	5	3196	U
36	5	3199	G
36	5	3207	U
36	5	3217	C
36	5	3218	A
36	5	3219	G
36	5	3223	A
36	5	3227	A
36	5	3228	C

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Mol	Chain	Res	Type
36	5	3229	G
36	5	3238	G
36	5	3239	G
36	5	3242	G
36	5	3243	A
36	5	3245	A
36	5	3246	G
36	5	3247	G
36	5	3259	U
36	5	3265	C
36	5	3269	U
36	5	3270	U
36	5	3273	A
36	5	3274	A
36	5	3275	U
36	5	3276	G
36	5	3277	U
36	5	3278	C
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	3295	A
36	5	3304	U
36	5	3313	U
36	5	3316	A
36	5	3317	U
36	5	3318	G
36	5	3319	U
36	5	3330	A
36	5	3335	A
36	5	3336	A
36	5	3341	U
36	5	3342	A
36	5	3345	G

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Mol	Chain	Res	Type
36	5	3350	C
36	5	3351	U
36	5	3352	U
36	5	3354	U
36	5	3356	G
36	5	3358	U
36	5	3369	G
36	5	3378	C
36	5	3382	U
36	5	3383	G
36	5	3389	U
36	5	3390	G
36	5	3393	U
36	5	3394	U
36	5	3396	U
37	7	10	C
37	7	22	A
37	7	33	U
37	7	38	U
37	7	41	G
37	7	45	A
37	7	51	A
37	7	52	G
37	7	54	U
37	7	60	G
37	7	65	G
37	7	73	C
37	7	76	A
37	7	93	C
37	7	101	G
37	7	102	A
37	7	103	A
37	7	104	A
37	7	112	G
38	8	21	C
38	8	34	U
38	8	35	C
38	8	48	A
38	8	52	A
38	8	54	A
38	8	59	A
38	8	62	C

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Mol	Chain	Res	Type
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	95	G
38	8	96	A
38	8	97	A
38	8	104	A
38	8	105	A
38	8	106	C
38	8	111	A
38	8	113	U
38	8	125	U
38	8	126	A
38	8	127	U
38	8	138	A
38	8	149	A
38	8	152	G
38	8	156	U
38	8	157	U
38	8	158	U

All (260) 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	136	C
1	2	139	C

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Mol	Chain	Res	Type
1	2	144	U
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	319	U
1	2	417	A
1	2	497	G
1	2	499	U
1	2	501	U
1	2	503	G
1	2	512	A
1	2	555	A
1	2	582	U
1	2	622	A
1	2	685	A
1	2	704	C
1	2	720	G
1	2	721	U
1	2	755	A
1	2	782	U
1	2	794	U
1	2	811	A
1	2	829	A
1	2	913	G
1	2	1058	U
1	2	1081	A
1	2	1157	A
1	2	1226	A
1	2	1244	A
1	2	1250	U
1	2	1344	A
1	2	1370	U
1	2	1457	C
1	2	1481	C
1	2	1489	U
1	2	1568	C
1	2	1573	A

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Mol	Chain	Res	Type
1	2	1615	C
1	2	1657	U
1	2	1696	G
1	2	1698	G
1	2	1711	C
1	2	1761	U
36	1	13	A
36	1	65	A
36	1	93	C
36	1	169	U
36	1	210	U
36	1	239	G
36	1	282	G
36	1	397	A
36	1	547	G
36	1	588	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	1196	C
36	1	1273	A
36	1	1307	G
36	1	1317	A
36	1	1329	U
36	1	1331	U
36	1	1352	A
36	1	1355	A
36	1	1484	U
36	1	1507	G
36	1	1556	C
36	1	1562	C
36	1	1582	C

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Mol	Chain	Res	Type
36	1	1589	A
36	1	1716	U
36	1	1815	U
36	1	1816	A
36	1	1820	U
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	2360	C
36	1	2418	G
36	1	2513	U
36	1	2522	G
36	1	2537	U
36	1	2538	U
36	1	2541	U
36	1	2554	A
36	1	2585	G
36	1	2593	A
36	1	2817	A
36	1	2818	U
36	1	3078	U
36	1	3121	U
36	1	3139	A
36	1	3169	U
36	1	3195	U
36	1	3207	U
36	1	3218	A
36	1	3228	C
36	1	3269	U
36	1	3275	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
38	4	85	G
38	4	125	U

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Mol	Chain	Res	Type
1	6	25	C
1	6	66	U
1	6	76	A
1	6	103	A
1	6	114	C
1	6	136	C
1	6	139	C
1	6	145	A
1	6	158	U
1	6	187	G
1	6	192	U
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	543	C
1	6	557	G
1	6	558	U
1	6	622	A
1	6	647	G
1	6	651	G
1	6	667	U
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	1098	U
1	6	1227	A
1	6	1244	A
1	6	1255	G
1	6	1344	A
1	6	1481	C
1	6	1489	U
1	6	1491	U

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Mol	Chain	Res	Type
1	6	1535	U
1	6	1568	C
1	6	1572	G
1	6	1573	A
1	6	1615	C
1	6	1620	C
1	6	1657	U
1	6	1696	G
1	6	1698	G
1	6	1700	C
36	5	151	A
36	5	183	G
36	5	238	A
36	5	374	A
36	5	438	A
36	5	588	G
36	5	765	C
36	5	873	C
36	5	916	G
36	5	960	U
36	5	993	G
36	5	1027	A
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	1574	C
36	5	1580	A
36	5	1589	A
36	5	1716	U
36	5	1815	U

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Mol	Chain	Res	Type
36	5	1816	A
36	5	1846	C
36	5	1879	A
36	5	2101	C
36	5	2112	U
36	5	2204	C
36	5	2209	U
36	5	2257	C
36	5	2372	A
36	5	2373	A
36	5	2374	C
36	5	2440	G
36	5	2507	C
36	5	2513	U
36	5	2531	C
36	5	2728	G
36	5	2772	C
36	5	2818	U
36	5	2887	A
36	5	2896	A
36	5	2971	A
36	5	3078	U
36	5	3121	U
36	5	3154	C
36	5	3155	U
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
38	8	156	U

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2029 ligands modelled in this entry, 1035 are monoatomic - leaving 994 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	$\#\|Z\| > 2$
86	OHX	1	3692	-	0,6,6	-	-	-		
86	OHX	S9	201	-	0,6,6	-	-	-		
86	OHX	5	3460	-	0,6,6	-	-	-		
86	OHX	7	211	-	0,6,6	-	-	-		
86	OHX	1	3689	-	0,6,6	-	-	-		
86	OHX	5	3712	-	0,6,6	-	-	-		
86	OHX	1	3691	-	0,6,6	-	-	-		
86	OHX	6	1985	-	0,6,6	-	-	-		
86	OHX	7	201	-	0,6,6	-	-	-		
86	OHX	5	3463	36	0,6,6	-	-	-		
86	OHX	5	3477	-	0,6,6	-	-	-		
86	OHX	5	3713	-	0,6,6	-	-	-		
86	OHX	5	3659	-	0,6,6	-	-	-		
86	OHX	5	3628	-	0,6,6	-	-	-		
86	OHX	4	206	-	0,6,6	-	-	-		
86	OHX	5	3654	-	0,6,6	-	-	-		
86	OHX	6	2021	-	0,6,6	-	-	-		
86	OHX	2	1985	-	0,6,6	-	-	-		
86	OHX	1	3592	-	0,6,6	-	-	-		
86	OHX	1	3648	-	0,6,6	-	-	-		
86	OHX	6	2016	-	0,6,6	-	-	-		
86	OHX	C1	201	-	0,6,6	-	-	-		
86	OHX	5	3561	-	0,6,6	-	-	-		
86	OHX	1	3623	-	0,6,6	-	-	-		
86	OHX	C3	201	-	0,6,6	-	-	-		
89	UAM	6	2134	-	31,31,31	0.19	0	38,44,44	0.48	0
86	OHX	5	3453	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	3526	-	0,6,6	-	-	-		
86	OHX	5	3417	-	0,6,6	-	-	-		
86	OHX	5	3534	-	0,6,6	-	-	-		
86	OHX	5	3608	-	0,6,6	-	-	-		
86	OHX	6	2028	-	0,6,6	-	-	-		
86	OHX	5	3421	-	0,6,6	-	-	-		
86	OHX	8	205	-	0,6,6	-	-	-		
86	OHX	1	3486	-	0,6,6	-	-	-		
86	OHX	1	3586	-	0,6,6	-	-	-		
86	OHX	8	213	-	0,6,6	-	-	-		
86	OHX	2	1908	-	0,6,6	-	-	-		
86	OHX	5	3589	-	0,6,6	-	-	-		
86	OHX	6	1963	-	0,6,6	-	-	-		
86	OHX	5	3622	-	0,6,6	-	-	-		
86	OHX	2	1977	-	0,6,6	-	-	-		
86	OHX	6	1941	-	0,6,6	-	-	-		
86	OHX	1	3502	-	0,6,6	-	-	-		
86	OHX	5	3646	-	0,6,6	-	-	-		
86	OHX	5	3523	-	0,6,6	-	-	-		
86	OHX	1	3705	-	0,6,6	-	-	-		
86	OHX	1	3665	-	0,6,6	-	-	-		
86	OHX	6	1921	-	0,6,6	-	-	-		
86	OHX	1	3483	-	0,6,6	-	-	-		
86	OHX	1	3702	-	0,6,6	-	-	-		
86	OHX	3	204	-	0,6,6	-	-	-		
86	OHX	1	3582	-	0,6,6	-	-	-		
86	OHX	5	3528	-	0,6,6	-	-	-		
86	OHX	1	3564	-	0,6,6	-	-	-		
86	OHX	M9	201	-	0,6,6	-	-	-		
86	OHX	2	2001	-	0,6,6	-	-	-		
86	OHX	1	3643	-	0,6,6	-	-	-		
86	OHX	5	3450	-	0,6,6	-	-	-		
86	OHX	5	3553	-	0,6,6	-	-	-		
86	OHX	1	3542	-	0,6,6	-	-	-		
86	OHX	5	3435	-	0,6,6	-	-	-		
86	OHX	M7	202	-	0,6,6	-	-	-		
86	OHX	5	3614	-	0,6,6	-	-	-		
86	OHX	5	3616	-	0,6,6	-	-	-		
86	OHX	5	3522	-	0,6,6	-	-	-		
86	OHX	5	3427	-	0,6,6	-	-	-		
86	OHX	1	3662	36	0,6,6	-	-	-		
86	OHX	1	3451	-	0,6,6	-	-	-		
86	OHX	5	3647	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	3650	-	0,6,6	-	-	-		
86	OHX	1	3679	-	0,6,6	-	-	-		
86	OHX	2	1961	-	0,6,6	-	-	-		
86	OHX	6	1949	-	0,6,6	-	-	-		
86	OHX	6	2005	-	0,6,6	-	-	-		
86	OHX	6	2014	-	0,6,6	-	-	-		
86	OHX	1	3490	-	0,6,6	-	-	-		
86	OHX	5	3479	-	0,6,6	-	-	-		
86	OHX	5	3642	-	0,6,6	-	-	-		
86	OHX	2	1973	-	0,6,6	-	-	-		
86	OHX	1	3466	-	0,6,6	-	-	-		
86	OHX	5	3515	-	0,6,6	-	-	-		
86	OHX	5	3446	-	0,6,6	-	-	-		
86	OHX	5	3448	-	0,6,6	-	-	-		
86	OHX	6	1965	-	0,6,6	-	-	-		
86	OHX	8	209	-	0,6,6	-	-	-		
86	OHX	5	3485	-	0,6,6	-	-	-		
86	OHX	1	3706	-	0,6,6	-	-	-		
86	OHX	5	3510	-	0,6,6	-	-	-		
86	OHX	6	1907	-	0,6,6	-	-	-		
86	OHX	5	3538	-	0,6,6	-	-	-		
86	OHX	5	3554	-	0,6,6	-	-	-		
86	OHX	5	3671	-	0,6,6	-	-	-		
86	OHX	5	3707	-	0,6,6	-	-	-		
86	OHX	1	3428	-	0,6,6	-	-	-		
86	OHX	5	3611	-	0,6,6	-	-	-		
86	OHX	6	2017	-	0,6,6	-	-	-		
86	OHX	1	3616	-	0,6,6	-	-	-		
86	OHX	6	1980	-	0,6,6	-	-	-		
86	OHX	6	1914	-	0,6,6	-	-	-		
86	OHX	1	3501	-	0,6,6	-	-	-		
86	OHX	5	3567	-	0,6,6	-	-	-		
86	OHX	6	2031	-	0,6,6	-	-	-		
86	OHX	5	3599	-	0,6,6	-	-	-		
86	OHX	1	3515	-	0,6,6	-	-	-		
86	OHX	1	3456	-	0,6,6	-	-	-		
86	OHX	2	2028	-	0,6,6	-	-	-		
86	OHX	5	3714	-	0,6,6	-	-	-		
86	OHX	2	1974	-	0,6,6	-	-	-		
86	OHX	6	1938	-	0,6,6	-	-	-		
86	OHX	5	3639	-	0,6,6	-	-	-		
86	OHX	C5	201	-	0,6,6	-	-	-		
86	OHX	1	3415	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	3537	-	0,6,6	-	-	-		
86	OHX	1	3652	-	0,6,6	-	-	-		
86	OHX	1	3555	-	0,6,6	-	-	-		
86	OHX	1	3634	-	0,6,6	-	-	-		
86	OHX	5	3636	-	0,6,6	-	-	-		
86	OHX	6	1954	-	0,6,6	-	-	-		
86	OHX	5	3723	-	0,6,6	-	-	-		
86	OHX	5	3598	-	0,6,6	-	-	-		
86	OHX	6	1911	-	0,6,6	-	-	-		
86	OHX	1	3441	-	0,6,6	-	-	-		
86	OHX	5	3473	-	0,6,6	-	-	-		
86	OHX	2	1903	-	0,6,6	-	-	-		
86	OHX	1	3574	-	0,6,6	-	-	-		
86	OHX	2	1959	-	0,6,6	-	-	-		
86	OHX	6	1944	-	0,6,6	-	-	-		
86	OHX	2	1955	-	0,6,6	-	-	-		
86	OHX	1	3511	-	0,6,6	-	-	-		
86	OHX	1	3583	36	0,6,6	-	-	-		
86	OHX	2	1989	-	0,6,6	-	-	-		
86	OHX	6	2019	-	0,6,6	-	-	-		
86	OHX	1	3660	-	0,6,6	-	-	-		
86	OHX	6	1952	-	0,6,6	-	-	-		
86	OHX	2	1964	-	0,6,6	-	-	-		
86	OHX	1	3569	-	0,6,6	-	-	-		
86	OHX	2	1986	-	0,6,6	-	-	-		
86	OHX	1	3406	-	0,6,6	-	-	-		
86	OHX	1	3613	-	0,6,6	-	-	-		
86	OHX	5	3429	-	0,6,6	-	-	-		
86	OHX	5	3697	-	0,6,6	-	-	-		
86	OHX	1	3470	-	0,6,6	-	-	-		
86	OHX	1	3630	-	0,6,6	-	-	-		
86	OHX	1	3462	-	0,6,6	-	-	-		
86	OHX	6	1972	-	0,6,6	-	-	-		
86	OHX	5	3556	-	0,6,6	-	-	-		
86	OHX	2	1996	-	0,6,6	-	-	-		
86	OHX	m0	302	-	0,6,6	-	-	-		
86	OHX	1	3575	-	0,6,6	-	-	-		
86	OHX	5	3449	-	0,6,6	-	-	-		
86	OHX	2	1932	-	0,6,6	-	-	-		
86	OHX	5	3541	-	0,6,6	-	-	-		
86	OHX	2	1940	-	0,6,6	-	-	-		
86	OHX	q2	502	-	0,6,6	-	-	-		
86	OHX	5	3401	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	5	3618	-	0,6,6	-	-	-		
86	OHX	1	3506	-	0,6,6	-	-	-		
86	OHX	1	3676	-	0,6,6	-	-	-		
86	OHX	5	3644	-	0,6,6	-	-	-		
86	OHX	5	3484	-	0,6,6	-	-	-		
86	OHX	2	1982	-	0,6,6	-	-	-		
86	OHX	5	3708	-	0,6,6	-	-	-		
86	OHX	l4	401	-	0,6,6	-	-	-		
86	OHX	1	3577	-	0,6,6	-	-	-		
86	OHX	3	207	-	0,6,6	-	-	-		
86	OHX	5	3425	-	0,6,6	-	-	-		
86	OHX	5	3675	-	0,6,6	-	-	-		
86	OHX	6	1912	-	0,6,6	-	-	-		
86	OHX	2	1918	-	0,6,6	-	-	-		
86	OHX	1	3594	-	0,6,6	-	-	-		
86	OHX	6	2022	-	0,6,6	-	-	-		
86	OHX	5	3497	-	0,6,6	-	-	-		
86	OHX	5	3716	-	0,6,6	-	-	-		
86	OHX	1	3686	-	0,6,6	-	-	-		
86	OHX	6	1939	-	0,6,6	-	-	-		
86	OHX	5	3610	-	0,6,6	-	-	-		
86	OHX	1	3422	-	0,6,6	-	-	-		
86	OHX	1	3493	-	0,6,6	-	-	-		
86	OHX	5	3584	-	0,6,6	-	-	-		
86	OHX	5	3627	-	0,6,6	-	-	-		
86	OHX	1	3655	-	0,6,6	-	-	-		
86	OHX	5	3683	-	0,6,6	-	-	-		
86	OHX	1	3420	-	0,6,6	-	-	-		
86	OHX	6	1982	-	0,6,6	-	-	-		
86	OHX	5	3518	-	0,6,6	-	-	-		
86	OHX	c8	201	-	0,6,6	-	-	-		
86	OHX	1	3595	-	0,6,6	-	-	-		
86	OHX	8	214	-	0,6,6	-	-	-		
86	OHX	6	1947	-	0,6,6	-	-	-		
86	OHX	5	3405	-	0,6,6	-	-	-		
86	OHX	1	3579	-	0,6,6	-	-	-		
86	OHX	2	1966	-	0,6,6	-	-	-		
86	OHX	1	3463	-	0,6,6	-	-	-		
86	OHX	2	2010	-	0,6,6	-	-	-		
86	OHX	5	3640	-	0,6,6	-	-	-		
86	OHX	5	3676	-	0,6,6	-	-	-		
86	OHX	2	1906	-	0,6,6	-	-	-		
86	OHX	1	3617	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	3597	-	0,6,6	-	-	-		
86	OHX	5	3643	-	0,6,6	-	-	-		
86	OHX	1	3672	-	0,6,6	-	-	-		
86	OHX	2	2024	-	0,6,6	-	-	-		
86	OHX	2	1960	-	0,6,6	-	-	-		
86	OHX	1	3405	-	0,6,6	-	-	-		
86	OHX	1	3517	-	0,6,6	-	-	-		
86	OHX	5	3492	-	0,6,6	-	-	-		
86	OHX	2	1968	-	0,6,6	-	-	-		
86	OHX	2	1992	-	0,6,6	-	-	-		
86	OHX	6	1942	-	0,6,6	-	-	-		
86	OHX	5	3715	-	0,6,6	-	-	-		
86	OHX	1	3482	-	0,6,6	-	-	-		
86	OHX	1	3512	-	0,6,6	-	-	-		
86	OHX	1	3590	-	0,6,6	-	-	-		
86	OHX	5	3408	-	0,6,6	-	-	-		
86	OHX	5	3503	-	0,6,6	-	-	-		
86	OHX	1	3680	-	0,6,6	-	-	-		
86	OHX	5	3587	-	0,6,6	-	-	-		
86	OHX	5	3625	-	0,6,6	-	-	-		
86	OHX	6	1956	-	0,6,6	-	-	-		
86	OHX	5	3719	-	0,6,6	-	-	-		
86	OHX	1	3553	-	0,6,6	-	-	-		
86	OHX	O1	201	-	0,6,6	-	-	-		
86	OHX	2	1921	-	0,6,6	-	-	-		
86	OHX	2	2023	-	0,6,6	-	-	-		
86	OHX	1	3646	-	0,6,6	-	-	-		
86	OHX	1	3632	-	0,6,6	-	-	-		
86	OHX	4	212	-	0,6,6	-	-	-		
86	OHX	1	3489	-	0,6,6	-	-	-		
86	OHX	2	2017	-	0,6,6	-	-	-		
86	OHX	1	3584	-	0,6,6	-	-	-		
86	OHX	1	3460	-	0,6,6	-	-	-		
86	OHX	5	3559	-	0,6,6	-	-	-		
86	OHX	o3	201	-	0,6,6	-	-	-		
86	OHX	6	1915	-	0,6,6	-	-	-		
86	OHX	1	3547	-	0,6,6	-	-	-		
86	OHX	2	1984	-	0,6,6	-	-	-		
86	OHX	1	3461	-	0,6,6	-	-	-		
86	OHX	1	3545	-	0,6,6	-	-	-		
86	OHX	1	3403	-	0,6,6	-	-	-		
86	OHX	1	3509	-	0,6,6	-	-	-		
86	OHX	2	2000	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	5	3635	-	0,6,6	-	-	-		
86	OHX	1	3418	-	0,6,6	-	-	-		
86	OHX	1	3480	-	0,6,6	-	-	-		
86	OHX	2	2005	-	0,6,6	-	-	-		
86	OHX	6	1932	-	0,6,6	-	-	-		
86	OHX	1	3658	-	0,6,6	-	-	-		
86	OHX	5	3413	-	0,6,6	-	-	-		
86	OHX	2	1927	-	0,6,6	-	-	-		
86	OHX	2	2008	-	0,6,6	-	-	-		
86	OHX	1	3580	-	0,6,6	-	-	-		
86	OHX	6	1958	-	0,6,6	-	-	-		
86	OHX	6	1977	-	0,6,6	-	-	-		
86	OHX	1	3500	-	0,6,6	-	-	-		
86	OHX	2	1907	-	0,6,6	-	-	-		
86	OHX	6	2002	-	0,6,6	-	-	-		
86	OHX	5	3669	-	0,6,6	-	-	-		
86	OHX	5	3517	-	0,6,6	-	-	-		
86	OHX	1	3596	-	0,6,6	-	-	-		
86	OHX	1	3698	-	0,6,6	-	-	-		
86	OHX	5	3722	-	0,6,6	-	-	-		
86	OHX	2	2009	-	0,6,6	-	-	-		
86	OHX	L3	402	-	0,6,6	-	-	-		
86	OHX	5	3445	-	0,6,6	-	-	-		
86	OHX	2	2011	-	0,6,6	-	-	-		
86	OHX	5	3665	-	0,6,6	-	-	-		
86	OHX	1	3459	-	0,6,6	-	-	-		
86	OHX	5	3631	-	0,6,6	-	-	-		
86	OHX	1	3611	-	0,6,6	-	-	-		
86	OHX	1	3687	-	0,6,6	-	-	-		
86	OHX	1	3642	-	0,6,6	-	-	-		
86	OHX	2	1963	-	0,6,6	-	-	-		
86	OHX	2	2015	-	0,6,6	-	-	-		
86	OHX	1	3521	-	0,6,6	-	-	-		
86	OHX	1	3656	-	0,6,6	-	-	-		
86	OHX	1	3624	-	0,6,6	-	-	-		
86	OHX	6	1961	-	0,6,6	-	-	-		
86	OHX	6	1995	-	0,6,6	-	-	-		
86	OHX	5	3443	-	0,6,6	-	-	-		
86	OHX	5	3552	-	0,6,6	-	-	-		
86	OHX	5	3690	-	0,6,6	-	-	-		
86	OHX	1	3688	-	0,6,6	-	-	-		
86	OHX	6	1986	-	0,6,6	-	-	-		
86	OHX	1	3523	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	6	1973	-	0,6,6	-	-	-		
86	OHX	5	3720	-	0,6,6	-	-	-		
86	OHX	6	2035	-	0,6,6	-	-	-		
86	OHX	5	3638	-	0,6,6	-	-	-		
86	OHX	1	3448	-	0,6,6	-	-	-		
86	OHX	l5	301	-	0,6,6	-	-	-		
86	OHX	1	3663	-	0,6,6	-	-	-		
86	OHX	M5	301	-	0,6,6	-	-	-		
86	OHX	2	1936	-	0,6,6	-	-	-		
86	OHX	2	1911	-	0,6,6	-	-	-		
86	OHX	2	1901	-	0,6,6	-	-	-		
86	OHX	1	3524	-	0,6,6	-	-	-		
86	OHX	2	2003	-	0,6,6	-	-	-		
86	OHX	5	3520	-	0,6,6	-	-	-		
86	OHX	1	3560	-	0,6,6	-	-	-		
86	OHX	1	3639	-	0,6,6	-	-	-		
86	OHX	2	1993	-	0,6,6	-	-	-		
86	OHX	5	3507	-	0,6,6	-	-	-		
86	OHX	5	3432	-	0,6,6	-	-	-		
86	OHX	4	216	-	0,6,6	-	-	-		
86	OHX	5	3668	-	0,6,6	-	-	-		
86	OHX	5	3709	-	0,6,6	-	-	-		
86	OHX	1	3458	-	0,6,6	-	-	-		
86	OHX	1	3664	-	0,6,6	-	-	-		
86	OHX	2	1965	-	0,6,6	-	-	-		
86	OHX	5	3619	-	0,6,6	-	-	-		
86	OHX	1	3410	-	0,6,6	-	-	-		
86	OHX	c5	201	-	0,6,6	-	-	-		
86	OHX	5	3513	-	0,6,6	-	-	-		
86	OHX	5	3516	-	0,6,6	-	-	-		
86	OHX	1	3465	-	0,6,6	-	-	-		
86	OHX	4	209	-	0,6,6	-	-	-		
86	OHX	5	3472	-	0,6,6	-	-	-		
86	OHX	5	3457	-	0,6,6	-	-	-		
86	OHX	6	2033	-	0,6,6	-	-	-		
86	OHX	6	1934	-	0,6,6	-	-	-		
86	OHX	5	3531	-	0,6,6	-	-	-		
86	OHX	1	3453	-	0,6,6	-	-	-		
86	OHX	1	3615	-	0,6,6	-	-	-		
86	OHX	1	3540	-	0,6,6	-	-	-		
86	OHX	5	3591	-	0,6,6	-	-	-		
86	OHX	1	3532	-	0,6,6	-	-	-		
86	OHX	2	1990	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	6	1955	-	0,6,6	-	-	-		
86	OHX	5	3632	-	0,6,6	-	-	-		
86	OHX	6	1916	-	0,6,6	-	-	-		
86	OHX	6	1964	-	0,6,6	-	-	-		
86	OHX	5	3721	-	0,6,6	-	-	-		
86	OHX	6	2036	-	0,6,6	-	-	-		
86	OHX	1	3530	-	0,6,6	-	-	-		
86	OHX	1	3476	-	0,6,6	-	-	-		
86	OHX	1	3621	-	0,6,6	-	-	-		
86	OHX	1	3447	-	0,6,6	-	-	-		
86	OHX	1	3534	-	0,6,6	-	-	-		
86	OHX	6	1976	-	0,6,6	-	-	-		
86	OHX	2	2014	-	0,6,6	-	-	-		
86	OHX	1	3601	-	0,6,6	-	-	-		
86	OHX	5	3438	-	0,6,6	-	-	-		
86	OHX	1	3585	-	0,6,6	-	-	-		
86	OHX	1	3425	-	0,6,6	-	-	-		
86	OHX	5	3592	-	0,6,6	-	-	-		
86	OHX	2	1947	-	0,6,6	-	-	-		
86	OHX	4	210	-	0,6,6	-	-	-		
86	OHX	5	3458	-	0,6,6	-	-	-		
86	OHX	5	3624	-	0,6,6	-	-	-		
86	OHX	5	3562	-	0,6,6	-	-	-		
86	OHX	6	2037	-	0,6,6	-	-	-		
86	OHX	5	3504	36	0,6,6	-	-	-		
86	OHX	1	3426	-	0,6,6	-	-	-		
86	OHX	5	3565	-	0,6,6	-	-	-		
86	OHX	1	3697	-	0,6,6	-	-	-		
86	OHX	6	1996	-	0,6,6	-	-	-		
86	OHX	5	3495	-	0,6,6	-	-	-		
86	OHX	1	3407	-	0,6,6	-	-	-		
86	OHX	8	202	-	0,6,6	-	-	-		
86	OHX	6	1918	-	0,6,6	-	-	-		
86	OHX	1	3690	-	0,6,6	-	-	-		
86	OHX	3	205	-	0,6,6	-	-	-		
86	OHX	1	3572	-	0,6,6	-	-	-		
86	OHX	5	3414	-	0,6,6	-	-	-		
86	OHX	N9	101	-	0,6,6	-	-	-		
86	OHX	5	3605	-	0,6,6	-	-	-		
86	OHX	5	3476	-	0,6,6	-	-	-		
86	OHX	1	3499	-	0,6,6	-	-	-		
86	OHX	2	2004	-	0,6,6	-	-	-		
86	OHX	S8	301	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	1	3549	-	0,6,6	-	-	-		
86	OHX	1	3678	-	0,6,6	-	-	-		
86	OHX	1	3554	-	0,6,6	-	-	-		
86	OHX	6	1943	-	0,6,6	-	-	-		
86	OHX	6	1984	-	0,6,6	-	-	-		
86	OHX	1	3696	-	0,6,6	-	-	-		
86	OHX	5	3536	-	0,6,6	-	-	-		
86	OHX	5	3686	-	0,6,6	-	-	-		
86	OHX	1	3450	-	0,6,6	-	-	-		
86	OHX	1	3436	-	0,6,6	-	-	-		
86	OHX	6	1966	-	0,6,6	-	-	-		
86	OHX	5	3717	-	0,6,6	-	-	-		
86	OHX	o7	502	-	0,6,6	-	-	-		
86	OHX	6	1923	-	0,6,6	-	-	-		
86	OHX	5	3545	-	0,6,6	-	-	-		
86	OHX	1	3563	-	0,6,6	-	-	-		
86	OHX	5	3525	-	0,6,6	-	-	-		
86	OHX	7	207	-	0,6,6	-	-	-		
86	OHX	4	207	-	0,6,6	-	-	-		
86	OHX	5	3661	-	0,6,6	-	-	-		
86	OHX	1	3404	-	0,6,6	-	-	-		
86	OHX	1	3492	-	0,6,6	-	-	-		
86	OHX	6	1975	-	0,6,6	-	-	-		
86	OHX	2	1935	-	0,6,6	-	-	-		
86	OHX	5	3569	-	0,6,6	-	-	-		
86	OHX	6	1903	-	0,6,6	-	-	-		
86	OHX	5	3486	-	0,6,6	-	-	-		
86	OHX	4	204	-	0,6,6	-	-	-		
86	OHX	2	1913	-	0,6,6	-	-	-		
86	OHX	n1	201	-	0,6,6	-	-	-		
86	OHX	5	3423	-	0,6,6	-	-	-		
86	OHX	1	3709	-	0,6,6	-	-	-		
86	OHX	1	3520	-	0,6,6	-	-	-		
86	OHX	7	210	-	0,6,6	-	-	-		
86	OHX	5	3505	-	0,6,6	-	-	-		
86	OHX	5	3693	-	0,6,6	-	-	-		
86	OHX	5	3664	-	0,6,6	-	-	-		
86	OHX	5	3402	-	0,6,6	-	-	-		
86	OHX	6	2020	-	0,6,6	-	-	-		
86	OHX	5	3548	-	0,6,6	-	-	-		
86	OHX	2	1979	-	0,6,6	-	-	-		
86	OHX	5	3705	-	0,6,6	-	-	-		
86	OHX	5	3444	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	1	3452	-	0,6,6	-	-	-		
86	OHX	5	3566	-	0,6,6	-	-	-		
86	OHX	5	3512	-	0,6,6	-	-	-		
86	OHX	5	3623	-	0,6,6	-	-	-		
86	OHX	2	1922	-	0,6,6	-	-	-		
86	OHX	5	3674	-	0,6,6	-	-	-		
86	OHX	1	3651	-	0,6,6	-	-	-		
86	OHX	6	2024	-	0,6,6	-	-	-		
86	OHX	6	1948	-	0,6,6	-	-	-		
86	OHX	1	3695	-	0,6,6	-	-	-		
86	OHX	5	3543	-	0,6,6	-	-	-		
86	OHX	2	1902	-	0,6,6	-	-	-		
86	OHX	1	3578	-	0,6,6	-	-	-		
86	OHX	5	3613	-	0,6,6	-	-	-		
86	OHX	1	3694	-	0,6,6	-	-	-		
86	OHX	5	3615	-	0,6,6	-	-	-		
86	OHX	1	3485	-	0,6,6	-	-	-		
86	OHX	6	1969	-	0,6,6	-	-	-		
86	OHX	6	1987	-	0,6,6	-	-	-		
86	OHX	5	3430	-	0,6,6	-	-	-		
86	OHX	2	1914	-	0,6,6	-	-	-		
86	OHX	6	1910	-	0,6,6	-	-	-		
86	OHX	5	3574	-	0,6,6	-	-	-		
86	OHX	5	3596	-	0,6,6	-	-	-		
86	OHX	5	3511	-	0,6,6	-	-	-		
86	OHX	1	3558	-	0,6,6	-	-	-		
86	OHX	5	3692	-	0,6,6	-	-	-		
86	OHX	5	3535	-	0,6,6	-	-	-		
86	OHX	6	1927	1	0,6,6	-	-	-		
86	OHX	6	2008	-	0,6,6	-	-	-		
86	OHX	5	3660	-	0,6,6	-	-	-		
86	OHX	c3	201	-	0,6,6	-	-	-		
86	OHX	1	3612	-	0,6,6	-	-	-		
86	OHX	2	1950	-	0,6,6	-	-	-		
86	OHX	5	3656	-	0,6,6	-	-	-		
86	OHX	2	1934	-	0,6,6	-	-	-		
86	OHX	2	1987	-	0,6,6	-	-	-		
86	OHX	1	3629	-	0,6,6	-	-	-		
86	OHX	5	3621	-	0,6,6	-	-	-		
86	OHX	5	3701	-	0,6,6	-	-	-		
86	OHX	1	3562	-	0,6,6	-	-	-		
86	OHX	1	3546	-	0,6,6	-	-	-		
86	OHX	1	3559	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	3487	-	0,6,6	-	-	-		
86	OHX	2	1970	-	0,6,6	-	-	-		
86	OHX	s8	301	-	0,6,6	-	-	-		
86	OHX	6	1978	-	0,6,6	-	-	-		
86	OHX	6	2009	-	0,6,6	-	-	-		
86	OHX	1	3498	-	0,6,6	-	-	-		
86	OHX	1	3654	-	0,6,6	-	-	-		
86	OHX	1	3508	-	0,6,6	-	-	-		
86	OHX	6	1957	-	0,6,6	-	-	-		
86	OHX	1	3472	-	0,6,6	-	-	-		
86	OHX	6	1990	-	0,6,6	-	-	-		
86	OHX	5	3597	-	0,6,6	-	-	-		
86	OHX	6	2034	-	0,6,6	-	-	-		
86	OHX	1	3576	-	0,6,6	-	-	-		
86	OHX	6	2012	-	0,6,6	-	-	-		
86	OHX	5	3602	-	0,6,6	-	-	-		
86	OHX	1	3507	-	0,6,6	-	-	-		
86	OHX	1	3598	-	0,6,6	-	-	-		
86	OHX	s9	201	-	0,6,6	-	-	-		
86	OHX	5	3603	-	0,6,6	-	-	-		
86	OHX	1	3526	-	0,6,6	-	-	-		
86	OHX	2	1976	-	0,6,6	-	-	-		
86	OHX	5	3464	-	0,6,6	-	-	-		
86	OHX	5	3600	-	0,6,6	-	-	-		
86	OHX	6	1959	-	0,6,6	-	-	-		
86	OHX	5	3529	-	0,6,6	-	-	-		
86	OHX	1	3573	-	0,6,6	-	-	-		
86	OHX	5	3687	-	0,6,6	-	-	-		
86	OHX	m6	201	-	0,6,6	-	-	-		
86	OHX	8	212	-	0,6,6	-	-	-		
86	OHX	5	3521	-	0,6,6	-	-	-		
86	OHX	2	1998	-	0,6,6	-	-	-		
86	OHX	8	206	-	0,6,6	-	-	-		
86	OHX	1	3440	-	0,6,6	-	-	-		
86	OHX	5	3546	-	0,6,6	-	-	-		
86	OHX	5	3699	-	0,6,6	-	-	-		
86	OHX	1	3413	-	0,6,6	-	-	-		
86	OHX	2	1948	-	0,6,6	-	-	-		
86	OHX	1	3513	-	0,6,6	-	-	-		
86	OHX	1	3667	-	0,6,6	-	-	-		
86	OHX	L3	401	-	0,6,6	-	-	-		
86	OHX	6	2023	-	0,6,6	-	-	-		
86	OHX	1	3433	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	6	2025	-	0,6,6	-	-	-		
86	OHX	2	2002	-	0,6,6	-	-	-		
86	OHX	1	3467	-	0,6,6	-	-	-		
86	OHX	6	1989	-	0,6,6	-	-	-		
86	OHX	1	3475	-	0,6,6	-	-	-		
86	OHX	2	1945	-	0,6,6	-	-	-		
86	OHX	6	2000	-	0,6,6	-	-	-		
86	OHX	5	3617	-	0,6,6	-	-	-		
86	OHX	2	2006	-	0,6,6	-	-	-		
86	OHX	6	1917	-	0,6,6	-	-	-		
86	OHX	6	1936	-	0,6,6	-	-	-		
86	OHX	1	3445	-	0,6,6	-	-	-		
86	OHX	6	2007	-	0,6,6	-	-	-		
86	OHX	1	3439	-	0,6,6	-	-	-		
86	OHX	1	3671	-	0,6,6	-	-	-		
86	OHX	5	3471	-	0,6,6	-	-	-		
86	OHX	5	3581	-	0,6,6	-	-	-		
86	OHX	1	3626	-	0,6,6	-	-	-		
86	OHX	1	3477	-	0,6,6	-	-	-		
86	OHX	5	3455	-	0,6,6	-	-	-		
86	OHX	1	3587	-	0,6,6	-	-	-		
86	OHX	8	207	-	0,6,6	-	-	-		
86	OHX	2	1925	-	0,6,6	-	-	-		
86	OHX	1	3703	-	0,6,6	-	-	-		
86	OHX	1	3604	-	0,6,6	-	-	-		
86	OHX	2	2027	-	0,6,6	-	-	-		
86	OHX	2	1971	-	0,6,6	-	-	-		
86	OHX	M0	301	-	0,6,6	-	-	-		
86	OHX	2	1975	-	0,6,6	-	-	-		
86	OHX	1	3707	-	0,6,6	-	-	-		
86	OHX	1	3408	-	0,6,6	-	-	-		
86	OHX	2	1997	-	0,6,6	-	-	-		
86	OHX	1	3561	-	0,6,6	-	-	-		
86	OHX	1	3627	-	0,6,6	-	-	-		
86	OHX	1	3525	-	0,6,6	-	-	-		
86	OHX	5	3595	-	0,6,6	-	-	-		
86	OHX	1	3496	-	0,6,6	-	-	-		
86	OHX	2	1929	-	0,6,6	-	-	-		
86	OHX	1	3417	-	0,6,6	-	-	-		
86	OHX	5	3691	-	0,6,6	-	-	-		
86	OHX	1	3666	-	0,6,6	-	-	-		
86	OHX	1	3434	-	0,6,6	-	-	-		
86	OHX	1	3516	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	6	2013	-	0,6,6	-	-	-		
86	OHX	4	215	-	0,6,6	-	-	-		
86	OHX	5	3678	-	0,6,6	-	-	-		
86	OHX	5	3454	-	0,6,6	-	-	-		
86	OHX	2	1933	-	0,6,6	-	-	-		
86	OHX	5	3626	-	0,6,6	-	-	-		
86	OHX	5	3572	-	0,6,6	-	-	-		
86	OHX	5	3501	36	0,6,6	-	-	-		
86	OHX	5	3564	-	0,6,6	-	-	-		
86	OHX	1	3622	-	0,6,6	-	-	-		
86	OHX	5	3672	-	0,6,6	-	-	-		
86	OHX	1	3444	-	0,6,6	-	-	-		
86	OHX	1	3608	-	0,6,6	-	-	-		
86	OHX	5	3474	-	0,6,6	-	-	-		
86	OHX	5	3456	-	0,6,6	-	-	-		
86	OHX	5	3653	-	0,6,6	-	-	-		
86	OHX	4	208	-	0,6,6	-	-	-		
86	OHX	6	1922	-	0,6,6	-	-	-		
86	OHX	2	1957	-	0,6,6	-	-	-		
86	OHX	m5	302	-	0,6,6	-	-	-		
86	OHX	6	2004	-	0,6,6	-	-	-		
86	OHX	1	3606	-	0,6,6	-	-	-		
86	OHX	5	3670	-	0,6,6	-	-	-		
86	OHX	1	3528	-	0,6,6	-	-	-		
86	OHX	6	1928	-	0,6,6	-	-	-		
86	OHX	2	2018	-	0,6,6	-	-	-		
86	OHX	2	1924	-	0,6,6	-	-	-		
86	OHX	4	214	-	0,6,6	-	-	-		
86	OHX	1	3704	-	0,6,6	-	-	-		
86	OHX	5	3452	-	0,6,6	-	-	-		
86	OHX	2	1999	-	0,6,6	-	-	-		
86	OHX	5	3440	-	0,6,6	-	-	-		
86	OHX	5	3582	-	0,6,6	-	-	-		
86	OHX	1	3495	-	0,6,6	-	-	-		
86	OHX	5	3489	-	0,6,6	-	-	-		
86	OHX	1	3416	-	0,6,6	-	-	-		
86	OHX	2	1928	-	0,6,6	-	-	-		
86	OHX	2	2016	-	0,6,6	-	-	-		
86	OHX	1	3427	-	0,6,6	-	-	-		
86	OHX	1	3468	-	0,6,6	-	-	-		
86	OHX	1	3548	-	0,6,6	-	-	-		
86	OHX	1	3647	-	0,6,6	-	-	-		
86	OHX	1	3571	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	6	1935	-	0,6,6	-	-	-		
86	OHX	6	2030	-	0,6,6	-	-	-		
86	OHX	5	3509	-	0,6,6	-	-	-		
86	OHX	5	3662	-	0,6,6	-	-	-		
86	OHX	5	3491	-	0,6,6	-	-	-		
86	OHX	2	1910	-	0,6,6	-	-	-		
86	OHX	5	3568	-	0,6,6	-	-	-		
86	OHX	l9	201	-	0,6,6	-	-	-		
86	OHX	5	3412	-	0,6,6	-	-	-		
86	OHX	2	1983	-	0,6,6	-	-	-		
86	OHX	1	3566	-	0,6,6	-	-	-		
86	OHX	sR	401	-	0,6,6	-	-	-		
86	OHX	6	1979	-	0,6,6	-	-	-		
86	OHX	4	205	-	0,6,6	-	-	-		
86	OHX	5	3462	-	0,6,6	-	-	-		
86	OHX	m0	301	-	0,6,6	-	-	-		
86	OHX	5	3700	-	0,6,6	-	-	-		
86	OHX	5	3650	-	0,6,6	-	-	-		
86	OHX	2	1988	-	0,6,6	-	-	-		
86	OHX	6	2015	-	0,6,6	-	-	-		
86	OHX	1	3603	-	0,6,6	-	-	-		
86	OHX	4	213	-	0,6,6	-	-	-		
86	OHX	5	3648	-	0,6,6	-	-	-		
86	OHX	5	3480	-	0,6,6	-	-	-		
86	OHX	5	3506	-	0,6,6	-	-	-		
86	OHX	6	1960	-	0,6,6	-	-	-		
86	OHX	2	1912	-	0,6,6	-	-	-		
86	OHX	6	1992	-	0,6,6	-	-	-		
86	OHX	1	3684	-	0,6,6	-	-	-		
86	OHX	n3	201	-	0,6,6	-	-	-		
86	OHX	1	3505	-	0,6,6	-	-	-		
86	OHX	5	3578	-	0,6,6	-	-	-		
86	OHX	1	3552	-	0,6,6	-	-	-		
86	OHX	2	2007	-	0,6,6	-	-	-		
86	OHX	5	3442	-	0,6,6	-	-	-		
86	OHX	5	3645	-	0,6,6	-	-	-		
86	OHX	2	1943	-	0,6,6	-	-	-		
86	OHX	2	1920	-	0,6,6	-	-	-		
86	OHX	5	3677	-	0,6,6	-	-	-		
86	OHX	1	3522	-	0,6,6	-	-	-		
86	OHX	1	3556	-	0,6,6	-	-	-		
86	OHX	6	2001	-	0,6,6	-	-	-		
86	OHX	5	3420	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	5	3681	-	0,6,6	-	-	-		
86	OHX	1	3588	-	0,6,6	-	-	-		
86	OHX	5	3409	-	0,6,6	-	-	-		
86	OHX	1	3424	-	0,6,6	-	-	-		
86	OHX	1	3479	-	0,6,6	-	-	-		
86	OHX	5	3419	-	0,6,6	-	-	-		
86	OHX	5	3652	-	0,6,6	-	-	-		
86	OHX	1	3543	-	0,6,6	-	-	-		
86	OHX	5	3483	-	0,6,6	-	-	-		
86	OHX	5	3508	-	0,6,6	-	-	-		
86	OHX	2	1969	-	0,6,6	-	-	-		
86	OHX	1	3503	-	0,6,6	-	-	-		
86	OHX	2	2025	-	0,6,6	-	-	-		
86	OHX	1	3682	-	0,6,6	-	-	-		
86	OHX	5	3488	-	0,6,6	-	-	-		
86	OHX	5	3657	-	0,6,6	-	-	-		
86	OHX	5	3694	-	0,6,6	-	-	-		
86	OHX	5	3703	-	0,6,6	-	-	-		
86	OHX	1	3538	-	0,6,6	-	-	-		
86	OHX	1	3708	-	0,6,6	-	-	-		
86	OHX	2	1919	-	0,6,6	-	-	-		
86	OHX	1	3464	-	0,6,6	-	-	-		
86	OHX	6	2006	-	0,6,6	-	-	-		
86	OHX	2	1937	-	0,6,6	-	-	-		
86	OHX	1	3710	-	0,6,6	-	-	-		
86	OHX	7	202	-	0,6,6	-	-	-		
86	OHX	7	205	-	0,6,6	-	-	-		
86	OHX	5	3570	-	0,6,6	-	-	-		
86	OHX	2	1942	-	0,6,6	-	-	-		
86	OHX	2	1994	-	0,6,6	-	-	-		
86	OHX	6	1970	-	0,6,6	-	-	-		
86	OHX	2	1941	-	0,6,6	-	-	-		
86	OHX	1	3681	-	0,6,6	-	-	-		
86	OHX	6	1913	-	0,6,6	-	-	-		
86	OHX	1	3510	-	0,6,6	-	-	-		
86	OHX	5	3514	-	0,6,6	-	-	-		
86	OHX	2	1909	1	0,6,6	-	-	-		
86	OHX	1	3669	-	0,6,6	-	-	-		
86	OHX	6	1988	-	0,6,6	-	-	-		
86	OHX	6	1950	-	0,6,6	-	-	-		
86	OHX	6	1999	-	0,6,6	-	-	-		
86	OHX	6	1998	-	0,6,6	-	-	-		
86	OHX	5	3465	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	3590	-	0,6,6	-	-	-		
86	OHX	5	3481	-	0,6,6	-	-	-		
86	OHX	6	1968	-	0,6,6	-	-	-		
86	OHX	5	3689	-	0,6,6	-	-	-		
86	OHX	1	3449	-	0,6,6	-	-	-		
86	OHX	6	2011	-	0,6,6	-	-	-		
86	OHX	5	3494	-	0,6,6	-	-	-		
86	OHX	5	3500	-	0,6,6	-	-	-		
86	OHX	8	208	-	0,6,6	-	-	-		
86	OHX	6	1929	-	0,6,6	-	-	-		
86	OHX	5	3519	-	0,6,6	-	-	-		
86	OHX	2	2013	-	0,6,6	-	-	-		
86	OHX	2	1951	-	0,6,6	-	-	-		
86	OHX	1	3636	-	0,6,6	-	-	-		
86	OHX	5	3704	-	0,6,6	-	-	-		
86	OHX	1	3701	-	0,6,6	-	-	-		
86	OHX	5	3498	-	0,6,6	-	-	-		
86	OHX	2	1904	-	0,6,6	-	-	-		
86	OHX	6	2032	-	0,6,6	-	-	-		
86	OHX	3	203	-	0,6,6	-	-	-		
86	OHX	5	3594	-	0,6,6	-	-	-		
86	OHX	5	3557	-	0,6,6	-	-	-		
86	OHX	1	3661	-	0,6,6	-	-	-		
86	OHX	5	3436	-	0,6,6	-	-	-		
86	OHX	SR	401	-	0,6,6	-	-	-		
86	OHX	3	202	-	0,6,6	-	-	-		
86	OHX	5	3710	-	0,6,6	-	-	-		
86	OHX	5	3461	-	0,6,6	-	-	-		
86	OHX	5	3403	-	0,6,6	-	-	-		
86	OHX	5	3493	-	0,6,6	-	-	-		
86	OHX	5	3655	-	0,6,6	-	-	-		
86	OHX	5	3447	-	0,6,6	-	-	-		
86	OHX	2	1915	-	0,6,6	-	-	-		
86	OHX	1	3631	-	0,6,6	-	-	-		
86	OHX	5	3633	-	0,6,6	-	-	-		
86	OHX	1	3494	-	0,6,6	-	-	-		
86	OHX	6	1905	-	0,6,6	-	-	-		
86	OHX	1	3551	-	0,6,6	-	-	-		
86	OHX	1	3429	36	0,6,6	-	-	-		
86	OHX	1	3430	-	0,6,6	-	-	-		
86	OHX	2	1981	-	0,6,6	-	-	-		
86	OHX	6	1926	-	0,6,6	-	-	-		
86	OHX	5	3540	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	5	3422	-	0,6,6	-	-	-		
86	OHX	1	3541	-	0,6,6	-	-	-		
86	OHX	1	3529	-	0,6,6	-	-	-		
86	OHX	5	3609	-	0,6,6	-	-	-		
86	OHX	2	1905	-	0,6,6	-	-	-		
86	OHX	1	3401	-	0,6,6	-	-	-		
86	OHX	1	3539	-	0,6,6	-	-	-		
86	OHX	1	3618	-	0,6,6	-	-	-		
86	OHX	5	3698	-	0,6,6	-	-	-		
86	OHX	6	1994	-	0,6,6	-	-	-		
86	OHX	1	3699	-	0,6,6	-	-	-		
86	OHX	1	3484	-	0,6,6	-	-	-		
86	OHX	C8	201	-	0,6,6	-	-	-		
86	OHX	6	1981	-	0,6,6	-	-	-		
86	OHX	6	1940	-	0,6,6	-	-	-		
86	OHX	5	3695	-	0,6,6	-	-	-		
86	OHX	6	1997	-	0,6,6	-	-	-		
86	OHX	1	3581	-	0,6,6	-	-	-		
86	OHX	5	3682	-	0,6,6	-	-	-		
86	OHX	1	3455	-	0,6,6	-	-	-		
86	OHX	2	1972	-	0,6,6	-	-	-		
86	OHX	5	3607	-	0,6,6	-	-	-		
86	OHX	1	3675	-	0,6,6	-	-	-		
86	OHX	5	3685	-	0,6,6	-	-	-		
86	OHX	6	1971	-	0,6,6	-	-	-		
86	OHX	6	2027	1	0,6,6	-	-	-		
86	OHX	8	211	-	0,6,6	-	-	-		
86	OHX	8	216	-	0,6,6	-	-	-		
86	OHX	1	3610	-	0,6,6	-	-	-		
86	OHX	1	3625	-	0,6,6	-	-	-		
86	OHX	n3	202	-	0,6,6	-	-	-		
86	OHX	2	1944	-	0,6,6	-	-	-		
86	OHX	5	3612	-	0,6,6	-	-	-		
86	OHX	1	3670	-	0,6,6	-	-	-		
86	OHX	n9	102	-	0,6,6	-	-	-		
86	OHX	1	3568	-	0,6,6	-	-	-		
86	OHX	5	3482	-	0,6,6	-	-	-		
86	OHX	6	1933	-	0,6,6	-	-	-		
86	OHX	1	3414	-	0,6,6	-	-	-		
86	OHX	Q2	502	-	0,6,6	-	-	-		
86	OHX	2	1967	-	0,6,6	-	-	-		
86	OHX	5	3418	-	0,6,6	-	-	-		
86	OHX	5	3637	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	3531	-	0,6,6	-	-	-		
86	OHX	5	3416	-	0,6,6	-	-	-		
86	OHX	2	2020	-	0,6,6	-	-	-		
86	OHX	5	3468	-	0,6,6	-	-	-		
86	OHX	1	3514	-	0,6,6	-	-	-		
86	OHX	6	1924	-	0,6,6	-	-	-		
86	OHX	2	2026	-	0,6,6	-	-	-		
86	OHX	2	1953	-	0,6,6	-	-	-		
86	OHX	1	3454	-	0,6,6	-	-	-		
86	OHX	1	3649	-	0,6,6	-	-	-		
86	OHX	1	3638	-	0,6,6	-	-	-		
86	OHX	7	206	-	0,6,6	-	-	-		
86	OHX	1	3620	-	0,6,6	-	-	-		
86	OHX	2	1946	-	0,6,6	-	-	-		
86	OHX	5	3673	-	0,6,6	-	-	-		
86	OHX	6	2010	-	0,6,6	-	-	-		
86	OHX	1	3677	-	0,6,6	-	-	-		
86	OHX	2	1931	-	0,6,6	-	-	-		
86	OHX	5	3524	-	0,6,6	-	-	-		
86	OHX	1	3411	-	0,6,6	-	-	-		
86	OHX	2	1938	-	0,6,6	-	-	-		
86	OHX	1	3471	-	0,6,6	-	-	-		
86	OHX	2	1991	-	0,6,6	-	-	-		
86	OHX	5	3558	-	0,6,6	-	-	-		
86	OHX	5	3571	-	0,6,6	-	-	-		
86	OHX	7	209	-	0,6,6	-	-	-		
86	OHX	5	3437	-	0,6,6	-	-	-		
86	OHX	m4	201	-	0,6,6	-	-	-		
86	OHX	5	3424	-	0,6,6	-	-	-		
86	OHX	2	2012	-	0,6,6	-	-	-		
86	OHX	5	3475	-	0,6,6	-	-	-		
86	OHX	5	3606	-	0,6,6	-	-	-		
86	OHX	3	201	-	0,6,6	-	-	-		
86	OHX	6	1974	-	0,6,6	-	-	-		
86	OHX	5	3634	-	0,6,6	-	-	-		
86	OHX	1	3674	-	0,6,6	-	-	-		
86	OHX	5	3663	-	0,6,6	-	-	-		
86	OHX	5	3711	-	0,6,6	-	-	-		
86	OHX	5	3601	-	0,6,6	-	-	-		
86	OHX	5	3680	-	0,6,6	-	-	-		
86	OHX	1	3653	-	0,6,6	-	-	-		
86	OHX	5	3439	-	0,6,6	-	-	-		
86	OHX	5	3487	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	3550	-	0,6,6	-	-	-		
86	OHX	5	3549	-	0,6,6	-	-	-		
86	OHX	1	3570	-	0,6,6	-	-	-		
86	OHX	L4	401	-	0,6,6	-	-	-		
86	OHX	1	3432	-	0,6,6	-	-	-		
86	OHX	5	3649	-	0,6,6	-	-	-		
86	OHX	1	3491	-	0,6,6	-	-	-		
86	OHX	2	1916	-	0,6,6	-	-	-		
86	OHX	5	3426	-	0,6,6	-	-	-		
86	OHX	5	3490	-	0,6,6	-	-	-		
86	OHX	5	3410	-	0,6,6	-	-	-		
86	OHX	1	3488	-	0,6,6	-	-	-		
86	OHX	1	3457	-	0,6,6	-	-	-		
86	OHX	2	1956	-	0,6,6	-	-	-		
86	OHX	5	3539	-	0,6,6	-	-	-		
86	OHX	1	3419	-	0,6,6	-	-	-		
86	OHX	1	3668	-	0,6,6	-	-	-		
86	OHX	2	1926	-	0,6,6	-	-	-		
86	OHX	2	1917	-	0,6,6	-	-	-		
86	OHX	1	3443	-	0,6,6	-	-	-		
86	OHX	1	3557	-	0,6,6	-	-	-		
86	OHX	1	3412	-	0,6,6	-	-	-		
86	OHX	1	3478	-	0,6,6	-	-	-		
86	OHX	1	3614	-	0,6,6	-	-	-		
86	OHX	1	3659	-	0,6,6	-	-	-		
86	OHX	5	3533	-	0,6,6	-	-	-		
86	OHX	5	3604	-	0,6,6	-	-	-		
86	OHX	5	3550	-	0,6,6	-	-	-		
86	OHX	5	3696	-	0,6,6	-	-	-		
86	OHX	1	3527	-	0,6,6	-	-	-		
86	OHX	8	215	-	0,6,6	-	-	-		
86	OHX	5	3530	-	0,6,6	-	-	-		
86	OHX	5	3667	-	0,6,6	-	-	-		
86	OHX	5	3583	-	0,6,6	-	-	-		
86	OHX	1	3700	-	0,6,6	-	-	-		
86	OHX	6	1962	-	0,6,6	-	-	-		
86	OHX	5	3563	-	0,6,6	-	-	-		
86	OHX	1	3633	-	0,6,6	-	-	-		
86	OHX	6	1937	-	0,6,6	-	-	-		
86	OHX	5	3666	-	0,6,6	-	-	-		
86	OHX	5	3406	-	0,6,6	-	-	-		
86	OHX	1	3473	-	0,6,6	-	-	-		
86	OHX	6	1993	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	l3	401	-	0,6,6	-	-	-		
86	OHX	2	2022	-	0,6,6	-	-	-		
86	OHX	4	203	-	0,6,6	-	-	-		
86	OHX	2	1958	-	0,6,6	-	-	-		
86	OHX	5	3580	-	0,6,6	-	-	-		
86	OHX	1	3645	-	0,6,6	-	-	-		
86	OHX	2	2021	-	0,6,6	-	-	-		
86	OHX	1	3712	-	0,6,6	-	-	-		
86	OHX	2	1962	-	0,6,6	-	-	-		
86	OHX	5	3585	-	0,6,6	-	-	-		
86	OHX	6	1909	-	0,6,6	-	-	-		
86	OHX	5	3702	-	0,6,6	-	-	-		
86	OHX	5	3679	-	0,6,6	-	-	-		
86	OHX	1	3589	-	0,6,6	-	-	-		
86	OHX	1	3536	-	0,6,6	-	-	-		
86	OHX	4	217	-	0,6,6	-	-	-		
86	OHX	6	1919	-	0,6,6	-	-	-		
86	OHX	1	3537	-	0,6,6	-	-	-		
86	OHX	2	1952	-	0,6,6	-	-	-		
86	OHX	3	206	-	0,6,6	-	-	-		
86	OHX	7	204	-	0,6,6	-	-	-		
86	OHX	5	3451	-	0,6,6	-	-	-		
86	OHX	1	3609	-	0,6,6	-	-	-		
86	OHX	1	3591	-	0,6,6	-	-	-		
86	OHX	5	3547	-	0,6,6	-	-	-		
86	OHX	1	3657	-	0,6,6	-	-	-		
86	OHX	5	3499	-	0,6,6	-	-	-		
86	OHX	1	3544	-	0,6,6	-	-	-		
86	OHX	5	3706	-	0,6,6	-	-	-		
86	OHX	1	3497	-	0,6,6	-	-	-		
86	OHX	1	3640	-	0,6,6	-	-	-		
86	OHX	5	3407	-	0,6,6	-	-	-		
86	OHX	5	3428	-	0,6,6	-	-	-		
86	OHX	5	3555	-	0,6,6	-	-	-		
86	OHX	1	3607	-	0,6,6	-	-	-		
86	OHX	5	3586	-	0,6,6	-	-	-		
86	OHX	5	3560	-	0,6,6	-	-	-		
86	OHX	1	3438	-	0,6,6	-	-	-		
86	OHX	1	3437	-	0,6,6	-	-	-		
86	OHX	7	203	-	0,6,6	-	-	-		
86	OHX	5	3404	-	0,6,6	-	-	-		
86	OHX	8	204	-	0,6,6	-	-	-		
86	OHX	1	3423	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	2	1949	-	0,6,6	-	-	-		
86	OHX	6	1908	-	0,6,6	-	-	-		
86	OHX	5	3502	-	0,6,6	-	-	-		
86	OHX	5	3532	-	0,6,6	-	-	-		
86	OHX	5	3441	-	0,6,6	-	-	-		
86	OHX	5	3459	-	0,6,6	-	-	-		
86	OHX	5	3527	-	0,6,6	-	-	-		
86	OHX	1	3504	-	0,6,6	-	-	-		
86	OHX	5	3688	-	0,6,6	-	-	-		
86	OHX	6	1920	-	0,6,6	-	-	-		
86	OHX	6	1930	-	0,6,6	-	-	-		
86	OHX	6	1931	-	0,6,6	-	-	-		
86	OHX	l5	302	-	0,6,6	-	-	-		
86	OHX	5	3470	-	0,6,6	-	-	-		
86	OHX	2	1980	-	0,6,6	-	-	-		
86	OHX	6	1925	-	0,6,6	-	-	-		
86	OHX	5	3434	-	0,6,6	-	-	-		
86	OHX	6	1945	-	0,6,6	-	-	-		
86	OHX	1	3431	-	0,6,6	-	-	-		
86	OHX	1	3605	-	0,6,6	-	-	-		
86	OHX	5	3629	-	0,6,6	-	-	-		
86	OHX	2	1930	-	0,6,6	-	-	-		
86	OHX	1	3469	-	0,6,6	-	-	-		
86	OHX	O3	201	-	0,6,6	-	-	-		
86	OHX	5	3651	-	0,6,6	-	-	-		
86	OHX	1	3593	-	0,6,6	-	-	-		
86	OHX	6	1983	-	0,6,6	-	-	-		
86	OHX	6	1967	-	0,6,6	-	-	-		
86	OHX	1	3442	-	0,6,6	-	-	-		
86	OHX	5	3467	-	0,6,6	-	-	-		
86	OHX	5	3620	-	0,6,6	-	-	-		
86	OHX	6	1904	-	0,6,6	-	-	-		
86	OHX	5	3575	-	0,6,6	-	-	-		
86	OHX	2	1995	-	0,6,6	-	-	-		
86	OHX	1	3685	-	0,6,6	-	-	-		
86	OHX	8	203	-	0,6,6	-	-	-		
86	OHX	5	3466	-	0,6,6	-	-	-		
86	OHX	5	3411	-	0,6,6	-	-	-		
86	OHX	6	1953	-	0,6,6	-	-	-		
86	OHX	2	2019	-	0,6,6	-	-	-		
86	OHX	1	3481	-	0,6,6	-	-	-		
86	OHX	6	2026	-	0,6,6	-	-	-		
86	OHX	6	2029	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	3431	-	0,6,6	-	-	-		
86	OHX	1	3673	-	0,6,6	-	-	-		
86	OHX	1	3693	-	0,6,6	-	-	-		
86	OHX	5	3577	-	0,6,6	-	-	-		
86	OHX	5	3593	-	0,6,6	-	-	-		
86	OHX	5	3718	-	0,6,6	-	-	-		
86	OHX	l3	402	-	0,6,6	-	-	-		
86	OHX	5	3544	-	0,6,6	-	-	-		
86	OHX	1	3402	-	0,6,6	-	-	-		
86	OHX	5	3724	-	0,6,6	-	-	-		
86	OHX	6	1946	-	0,6,6	-	-	-		
86	OHX	7	208	-	0,6,6	-	-	-		
86	OHX	1	3644	-	0,6,6	-	-	-		
86	OHX	4	211	-	0,6,6	-	-	-		
86	OHX	1	3519	-	0,6,6	-	-	-		
86	OHX	6	1902	-	0,6,6	-	-	-		
86	OHX	1	3600	-	0,6,6	-	-	-		
86	OHX	5	3576	-	0,6,6	-	-	-		
86	OHX	6	1901	-	0,6,6	-	-	-		
86	OHX	5	3684	-	0,6,6	-	-	-		
86	OHX	5	3542	-	0,6,6	-	-	-		
86	OHX	6	1991	-	0,6,6	-	-	-		
86	OHX	1	3533	-	0,6,6	-	-	-		
86	OHX	1	3641	-	0,6,6	-	-	-		
86	OHX	6	2018	-	0,6,6	-	-	-		
86	OHX	5	3415	-	0,6,6	-	-	-		
86	OHX	5	3478	-	0,6,6	-	-	-		
86	OHX	5	3573	-	0,6,6	-	-	-		
86	OHX	2	1923	-	0,6,6	-	-	-		
86	OHX	1	3637	-	0,6,6	-	-	-		
86	OHX	5	3579	-	0,6,6	-	-	-		
86	OHX	1	3602	-	0,6,6	-	-	-		
86	OHX	6	2003	-	0,6,6	-	-	-		
86	OHX	1	3635	-	0,6,6	-	-	-		
86	OHX	2	1978	-	0,6,6	-	-	-		
86	OHX	1	3474	-	0,6,6	-	-	-		
86	OHX	2	1954	-	0,6,6	-	-	-		
86	OHX	1	3518	-	0,6,6	-	-	-		
86	OHX	5	3588	-	0,6,6	-	-	-		
86	OHX	8	210	-	0,6,6	-	-	-		
86	OHX	6	1906	-	0,6,6	-	-	-		
86	OHX	5	3496	-	0,6,6	-	-	-		
86	OHX	5	3433	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	2	1939	-	0,6,6	-	-	-		
86	OHX	1	3565	-	0,6,6	-	-	-		
86	OHX	1	3446	-	0,6,6	-	-	-		
86	OHX	1	3619	-	0,6,6	-	-	-		
86	OHX	3	208	-	0,6,6	-	-	-		
86	OHX	5	3551	-	0,6,6	-	-	-		
86	OHX	1	3628	-	0,6,6	-	-	-		
86	OHX	1	3409	-	0,6,6	-	-	-		
86	OHX	1	3421	-	0,6,6	-	-	-		
86	OHX	1	3435	-	0,6,6	-	-	-		
86	OHX	1	3567	-	0,6,6	-	-	-		
86	OHX	s4	301	-	0,6,6	-	-	-		
86	OHX	5	3469	-	0,6,6	-	-	-		
86	OHX	1	3711	-	0,6,6	-	-	-		
86	OHX	5	3630	-	0,6,6	-	-	-		
86	OHX	1	3599	-	0,6,6	-	-	-		
86	OHX	5	3641	-	0,6,6	-	-	-		
86	OHX	6	1951	-	0,6,6	-	-	-		
86	OHX	5	3658	-	0,6,6	-	-	-		
86	OHX	1	3535	-	0,6,6	-	-	-		
86	OHX	1	3683	-	0,6,6	-	-	-		

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
89	UAM	6	2134	-	-	14/28/40/40	0/2/2/2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
89	6	2134	UAM	NAQ-CAT-CBA-OAI
89	6	2134	UAM	NAQ-CAT-CBA-CBB
89	6	2134	UAM	OAF-CAT-CBA-OAI
89	6	2134	UAM	OAF-CAT-CBA-CBB
89	6	2134	UAM	CAT-CBA-CBB-OAJ

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Mol	Chain	Res	Type	Atoms
89	6	2134	UAM	CAT-CBA-CBB-CAZ
89	6	2134	UAM	OAI-CBA-CBB-OAJ
89	6	2134	UAM	CBC-CAP-CAY-CAA
89	6	2134	UAM	CBC-CAP-CAY-CAB
89	6	2134	UAM	CAY-CAP-CBC-NAQ
89	6	2134	UAM	OAI-CBA-CBB-CAZ
89	6	2134	UAM	CAN-CAZ-CBB-CBA
89	6	2134	UAM	NAD-CAZ-CBB-CBA
89	6	2134	UAM	NAD-CAZ-CBB-OAJ

There are no ring outliers.

461 monomers are involved in 634 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	S9	201	OHX	2	0
86	5	3460	OHX	1	0
86	1	3689	OHX	1	0
86	1	3691	OHX	3	0
86	5	3463	OHX	3	0
86	5	3477	OHX	1	0
86	5	3713	OHX	3	0
86	5	3659	OHX	1	0
86	4	206	OHX	2	0
86	5	3654	OHX	1	0
86	6	2021	OHX	1	0
86	1	3592	OHX	3	0
86	1	3623	OHX	2	0
86	C3	201	OHX	1	0
86	5	3526	OHX	1	0
86	5	3534	OHX	2	0
86	5	3608	OHX	1	0
86	1	3486	OHX	1	0
86	8	213	OHX	2	0
86	5	3589	OHX	1	0
86	5	3622	OHX	1	0
86	5	3523	OHX	1	0
86	1	3665	OHX	3	0
86	6	1921	OHX	2	0
86	5	3528	OHX	1	0
86	1	3564	OHX	1	0
86	M9	201	OHX	1	0
86	5	3435	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	5	3616	OHX	1	0
86	5	3427	OHX	1	0
86	1	3662	OHX	1	0
86	5	3479	OHX	5	0
86	1	3466	OHX	1	0
86	5	3515	OHX	1	0
86	6	1965	OHX	2	0
86	5	3485	OHX	2	0
86	5	3554	OHX	1	0
86	5	3611	OHX	1	0
86	6	1980	OHX	1	0
86	6	1914	OHX	1	0
86	1	3501	OHX	1	0
86	5	3567	OHX	2	0
86	1	3515	OHX	2	0
86	1	3456	OHX	1	0
86	5	3714	OHX	1	0
86	6	1938	OHX	1	0
86	5	3639	OHX	1	0
86	C5	201	OHX	2	0
86	1	3415	OHX	1	0
86	6	1911	OHX	1	0
86	1	3441	OHX	1	0
86	5	3473	OHX	2	0
86	1	3583	OHX	1	0
86	6	1952	OHX	2	0
86	2	1964	OHX	3	0
86	1	3569	OHX	1	0
86	1	3406	OHX	2	0
86	5	3697	OHX	1	0
86	1	3630	OHX	1	0
86	1	3575	OHX	1	0
86	5	3449	OHX	2	0
86	q2	502	OHX	3	0
86	5	3401	OHX	3	0
86	5	3644	OHX	1	0
86	5	3484	OHX	1	0
86	2	1982	OHX	1	0
86	5	3708	OHX	1	0
86	l4	401	OHX	1	0
86	1	3577	OHX	1	0
86	5	3675	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	1918	OHX	1	0
86	1	3686	OHX	1	0
86	6	1939	OHX	1	0
86	5	3610	OHX	1	0
86	1	3420	OHX	1	0
86	6	1982	OHX	1	0
86	5	3518	OHX	1	0
86	1	3595	OHX	1	0
86	6	1947	OHX	1	0
86	1	3579	OHX	1	0
86	2	1966	OHX	1	0
86	5	3640	OHX	1	0
86	5	3676	OHX	1	0
86	1	3597	OHX	1	0
86	5	3643	OHX	1	0
86	2	2024	OHX	1	0
86	2	1960	OHX	3	0
86	1	3405	OHX	3	0
86	1	3517	OHX	1	0
86	2	1992	OHX	1	0
86	5	3715	OHX	1	0
86	1	3512	OHX	1	0
86	5	3503	OHX	1	0
86	5	3587	OHX	2	0
86	6	1956	OHX	4	0
86	5	3719	OHX	1	0
86	O1	201	OHX	5	0
86	2	1921	OHX	1	0
86	2	2023	OHX	1	0
86	1	3646	OHX	1	0
86	4	212	OHX	1	0
86	2	2017	OHX	2	0
86	1	3460	OHX	1	0
86	o3	201	OHX	1	0
86	2	1984	OHX	3	0
86	1	3545	OHX	1	0
86	1	3403	OHX	1	0
86	2	2000	OHX	1	0
86	1	3418	OHX	2	0
86	1	3480	OHX	1	0
86	2	2005	OHX	1	0
86	5	3413	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	3580	OHX	2	0
86	6	1958	OHX	3	0
86	6	1977	OHX	2	0
86	5	3669	OHX	1	0
86	5	3517	OHX	1	0
86	1	3596	OHX	1	0
86	L3	402	OHX	1	0
86	2	2011	OHX	1	0
86	5	3631	OHX	1	0
86	2	2015	OHX	1	0
86	1	3521	OHX	1	0
86	6	1961	OHX	1	0
86	6	1995	OHX	2	0
86	5	3552	OHX	1	0
86	5	3690	OHX	1	0
86	1	3523	OHX	1	0
86	6	1973	OHX	2	0
86	5	3720	OHX	1	0
86	5	3638	OHX	1	0
86	l5	301	OHX	1	0
86	2	1936	OHX	1	0
86	2	1911	OHX	1	0
86	2	2003	OHX	2	0
86	5	3520	OHX	1	0
86	2	1993	OHX	1	0
86	5	3507	OHX	1	0
86	5	3432	OHX	1	0
86	2	1965	OHX	1	0
86	5	3619	OHX	1	0
86	c5	201	OHX	3	0
86	5	3513	OHX	1	0
86	4	209	OHX	2	0
86	5	3457	OHX	2	0
86	6	2033	OHX	3	0
86	6	1934	OHX	2	0
86	5	3591	OHX	2	0
86	6	1955	OHX	1	0
86	5	3632	OHX	1	0
86	6	1964	OHX	1	0
86	6	2036	OHX	1	0
86	1	3621	OHX	1	0
86	1	3534	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	2014	OHX	1	0
86	1	3601	OHX	1	0
86	5	3438	OHX	1	0
86	1	3425	OHX	1	0
86	5	3592	OHX	1	0
86	2	1947	OHX	1	0
86	5	3504	OHX	6	0
86	1	3426	OHX	1	0
86	1	3697	OHX	1	0
86	6	1996	OHX	2	0
86	8	202	OHX	1	0
86	6	1918	OHX	2	0
86	1	3690	OHX	2	0
86	3	205	OHX	1	0
86	5	3414	OHX	1	0
86	N9	101	OHX	1	0
86	2	2004	OHX	1	0
86	S8	301	OHX	1	0
86	1	3554	OHX	1	0
86	6	1984	OHX	1	0
86	1	3696	OHX	2	0
86	5	3686	OHX	1	0
86	1	3450	OHX	2	0
86	6	1966	OHX	1	0
86	o7	502	OHX	1	0
86	1	3563	OHX	2	0
86	5	3525	OHX	2	0
86	1	3492	OHX	1	0
86	6	1975	OHX	1	0
86	5	3569	OHX	1	0
86	5	3486	OHX	1	0
86	2	1913	OHX	2	0
86	n1	201	OHX	1	0
86	5	3423	OHX	2	0
86	1	3709	OHX	1	0
86	1	3520	OHX	2	0
86	5	3505	OHX	1	0
86	5	3693	OHX	1	0
86	5	3664	OHX	1	0
86	5	3548	OHX	1	0
86	5	3566	OHX	1	0
86	1	3651	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2024	OHX	1	0
86	6	1948	OHX	1	0
86	1	3695	OHX	1	0
86	1	3578	OHX	1	0
86	1	3485	OHX	1	0
86	2	1914	OHX	2	0
86	6	1910	OHX	1	0
86	5	3535	OHX	2	0
86	6	1927	OHX	1	0
86	6	2008	OHX	1	0
86	1	3612	OHX	1	0
86	5	3656	OHX	3	0
86	s8	301	OHX	1	0
86	6	2009	OHX	2	0
86	1	3498	OHX	1	0
86	1	3508	OHX	1	0
86	6	1957	OHX	1	0
86	1	3472	OHX	2	0
86	6	1990	OHX	2	0
86	5	3597	OHX	1	0
86	1	3576	OHX	3	0
86	6	2012	OHX	1	0
86	5	3602	OHX	1	0
86	s9	201	OHX	2	0
86	5	3603	OHX	1	0
86	1	3526	OHX	3	0
86	5	3464	OHX	2	0
86	5	3600	OHX	2	0
86	6	1959	OHX	2	0
86	5	3529	OHX	1	0
86	1	3573	OHX	1	0
86	5	3687	OHX	1	0
86	m6	201	OHX	1	0
86	5	3521	OHX	1	0
86	8	206	OHX	1	0
86	5	3546	OHX	1	0
86	1	3413	OHX	1	0
86	2	1948	OHX	2	0
86	1	3513	OHX	1	0
86	6	2025	OHX	1	0
86	2	2002	OHX	1	0
86	6	1989	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	1945	OHX	1	0
86	6	2000	OHX	1	0
86	2	2006	OHX	1	0
86	6	1917	OHX	1	0
86	5	3581	OHX	2	0
86	5	3455	OHX	3	0
86	1	3587	OHX	1	0
86	2	1925	OHX	2	0
86	2	2027	OHX	1	0
86	2	1971	OHX	1	0
86	M0	301	OHX	1	0
86	2	1997	OHX	1	0
86	1	3561	OHX	1	0
86	1	3627	OHX	1	0
86	5	3595	OHX	1	0
86	1	3496	OHX	6	0
86	2	1929	OHX	1	0
86	5	3691	OHX	8	0
86	5	3678	OHX	1	0
86	5	3454	OHX	1	0
86	5	3626	OHX	1	0
86	5	3572	OHX	1	0
86	5	3501	OHX	1	0
86	1	3444	OHX	1	0
86	1	3608	OHX	1	0
86	5	3653	OHX	1	0
86	4	208	OHX	1	0
86	6	1922	OHX	5	0
86	6	2004	OHX	1	0
86	5	3670	OHX	1	0
86	1	3528	OHX	1	0
86	2	2018	OHX	1	0
86	2	1924	OHX	1	0
86	4	214	OHX	2	0
86	5	3582	OHX	1	0
86	1	3495	OHX	1	0
86	1	3416	OHX	1	0
86	6	2030	OHX	1	0
86	5	3509	OHX	2	0
86	5	3662	OHX	1	0
86	2	1910	OHX	1	0
86	2	1983	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	4	205	OHX	1	0
86	m0	301	OHX	2	0
86	5	3650	OHX	1	0
86	2	1988	OHX	1	0
86	5	3480	OHX	1	0
86	1	3684	OHX	1	0
86	n3	201	OHX	1	0
86	5	3578	OHX	1	0
86	2	2007	OHX	1	0
86	5	3645	OHX	1	0
86	2	1943	OHX	1	0
86	2	1920	OHX	1	0
86	5	3420	OHX	1	0
86	5	3681	OHX	1	0
86	5	3409	OHX	1	0
86	1	3479	OHX	1	0
86	1	3543	OHX	1	0
86	5	3483	OHX	1	0
86	5	3508	OHX	1	0
86	1	3538	OHX	1	0
86	1	3708	OHX	2	0
86	2	1919	OHX	1	0
86	6	2006	OHX	1	0
86	2	1937	OHX	2	0
86	7	205	OHX	1	0
86	2	1942	OHX	1	0
86	6	1913	OHX	1	0
86	1	3510	OHX	2	0
86	1	3669	OHX	2	0
86	6	1988	OHX	1	0
86	6	1999	OHX	1	0
86	5	3590	OHX	1	0
86	6	2011	OHX	1	0
86	5	3500	OHX	1	0
86	6	1929	OHX	3	0
86	2	1951	OHX	1	0
86	1	3701	OHX	5	0
86	5	3498	OHX	1	0
86	2	1904	OHX	1	0
86	6	2032	OHX	2	0
86	5	3436	OHX	1	0
86	SR	401	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	5	3710	OHX	1	0
86	5	3461	OHX	1	0
86	5	3403	OHX	1	0
86	1	3631	OHX	1	0
86	5	3633	OHX	1	0
86	6	1905	OHX	1	0
86	1	3551	OHX	1	0
86	1	3429	OHX	1	0
86	1	3430	OHX	1	0
86	6	1926	OHX	1	0
86	5	3540	OHX	1	0
86	1	3529	OHX	1	0
86	1	3539	OHX	3	0
86	1	3618	OHX	2	0
86	1	3699	OHX	2	0
86	C8	201	OHX	0	1
86	6	1940	OHX	1	0
86	5	3695	OHX	1	0
86	6	1997	OHX	1	0
86	1	3581	OHX	3	0
86	5	3682	OHX	2	0
86	1	3675	OHX	2	0
86	5	3685	OHX	2	0
86	6	2027	OHX	2	0
86	8	211	OHX	2	0
86	1	3610	OHX	1	0
86	n3	202	OHX	2	0
86	2	1944	OHX	1	0
86	1	3670	OHX	1	0
86	n9	102	OHX	1	0
86	Q2	502	OHX	1	0
86	2	1967	OHX	1	0
86	5	3418	OHX	2	0
86	5	3637	OHX	2	0
86	1	3531	OHX	2	0
86	2	2020	OHX	1	0
86	1	3514	OHX	1	0
86	2	1953	OHX	2	0
86	1	3649	OHX	1	0
86	6	2010	OHX	1	0
86	2	1931	OHX	1	0
86	1	3411	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	1938	OHX	1	0
86	1	3471	OHX	1	0
86	2	2012	OHX	1	0
86	5	3606	OHX	3	0
86	6	1974	OHX	1	0
86	5	3711	OHX	1	0
86	5	3680	OHX	1	0
86	1	3653	OHX	2	0
86	5	3487	OHX	1	0
86	1	3550	OHX	2	0
86	1	3570	OHX	1	0
86	L4	401	OHX	2	0
86	1	3491	OHX	1	0
86	5	3426	OHX	1	0
86	5	3539	OHX	1	0
86	2	1926	OHX	1	0
86	2	1917	OHX	1	0
86	1	3478	OHX	2	0
86	1	3614	OHX	1	0
86	1	3659	OHX	1	0
86	5	3604	OHX	1	0
86	5	3550	OHX	1	0
86	5	3696	OHX	1	0
86	8	215	OHX	1	0
86	5	3583	OHX	1	0
86	1	3700	OHX	1	0
86	6	1937	OHX	1	0
86	5	3406	OHX	2	0
86	l3	401	OHX	2	0
86	2	2021	OHX	2	0
86	1	3712	OHX	4	0
86	2	1962	OHX	1	0
86	5	3585	OHX	1	0
86	6	1909	OHX	1	0
86	6	1919	OHX	2	0
86	2	1952	OHX	2	0
86	3	206	OHX	1	0
86	7	204	OHX	1	0
86	1	3591	OHX	1	0
86	5	3547	OHX	1	0
86	1	3657	OHX	2	0
86	5	3499	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	3544	OHX	1	0
86	5	3706	OHX	1	0
86	5	3407	OHX	1	0
86	5	3586	OHX	1	0
86	1	3438	OHX	1	0
86	7	203	OHX	1	0
86	8	204	OHX	2	0
86	2	1949	OHX	2	0
86	6	1908	OHX	2	0
86	5	3532	OHX	2	0
86	1	3504	OHX	1	0
86	6	1930	OHX	2	0
86	6	1931	OHX	1	0
86	l5	302	OHX	1	0
86	2	1980	OHX	1	0
86	5	3434	OHX	1	0
86	6	1945	OHX	1	0
86	2	1930	OHX	2	0
86	1	3469	OHX	1	0
86	O3	201	OHX	2	0
86	6	1983	OHX	2	0
86	5	3467	OHX	1	0
86	5	3575	OHX	1	0
86	2	1995	OHX	2	0
86	1	3685	OHX	1	0
86	5	3411	OHX	1	0
86	6	1953	OHX	1	0
86	2	2019	OHX	3	0
86	1	3693	OHX	1	0
86	5	3577	OHX	2	0
86	5	3593	OHX	2	0
86	1	3519	OHX	2	0
86	1	3600	OHX	1	0
86	5	3684	OHX	2	0
86	5	3542	OHX	1	0
86	6	1991	OHX	2	0
86	1	3641	OHX	2	0
86	6	2018	OHX	1	0
86	5	3415	OHX	1	0
86	2	1923	OHX	1	0
86	2	1978	OHX	1	0
86	1	3518	OHX	1	0

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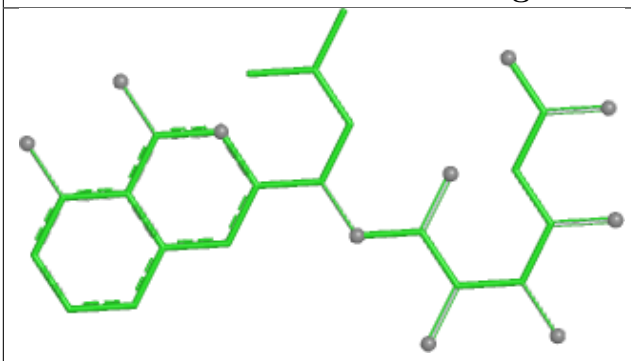
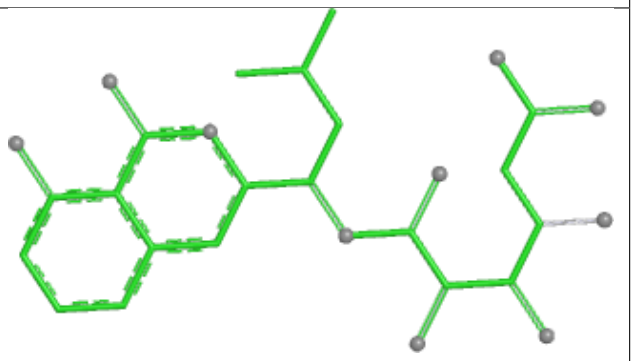
Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	8	210	OHX	1	0
86	5	3496	OHX	1	0
86	2	1939	OHX	1	0
86	1	3446	OHX	1	0
86	5	3551	OHX	1	0
86	1	3628	OHX	1	0
86	1	3409	OHX	2	0
86	1	3421	OHX	2	0
86	s4	301	OHX	2	0
86	5	3641	OHX	1	0
86	6	1951	OHX	1	0
86	5	3658	OHX	1	0
86	1	3535	OHX	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

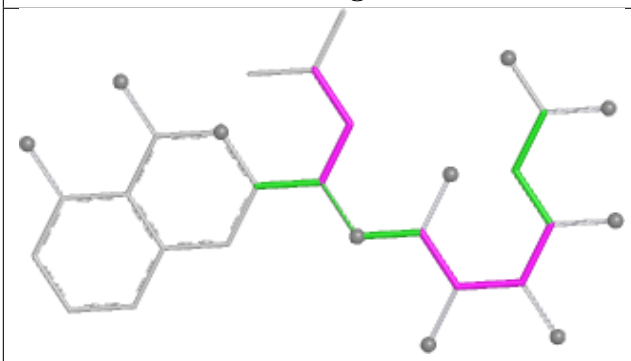
Ligand UAM 6 2134



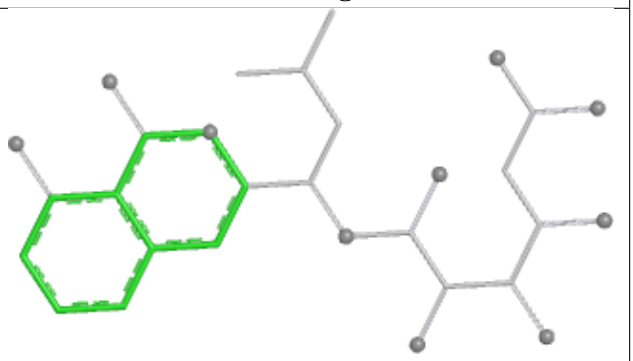
Bond lengths



Bond angles

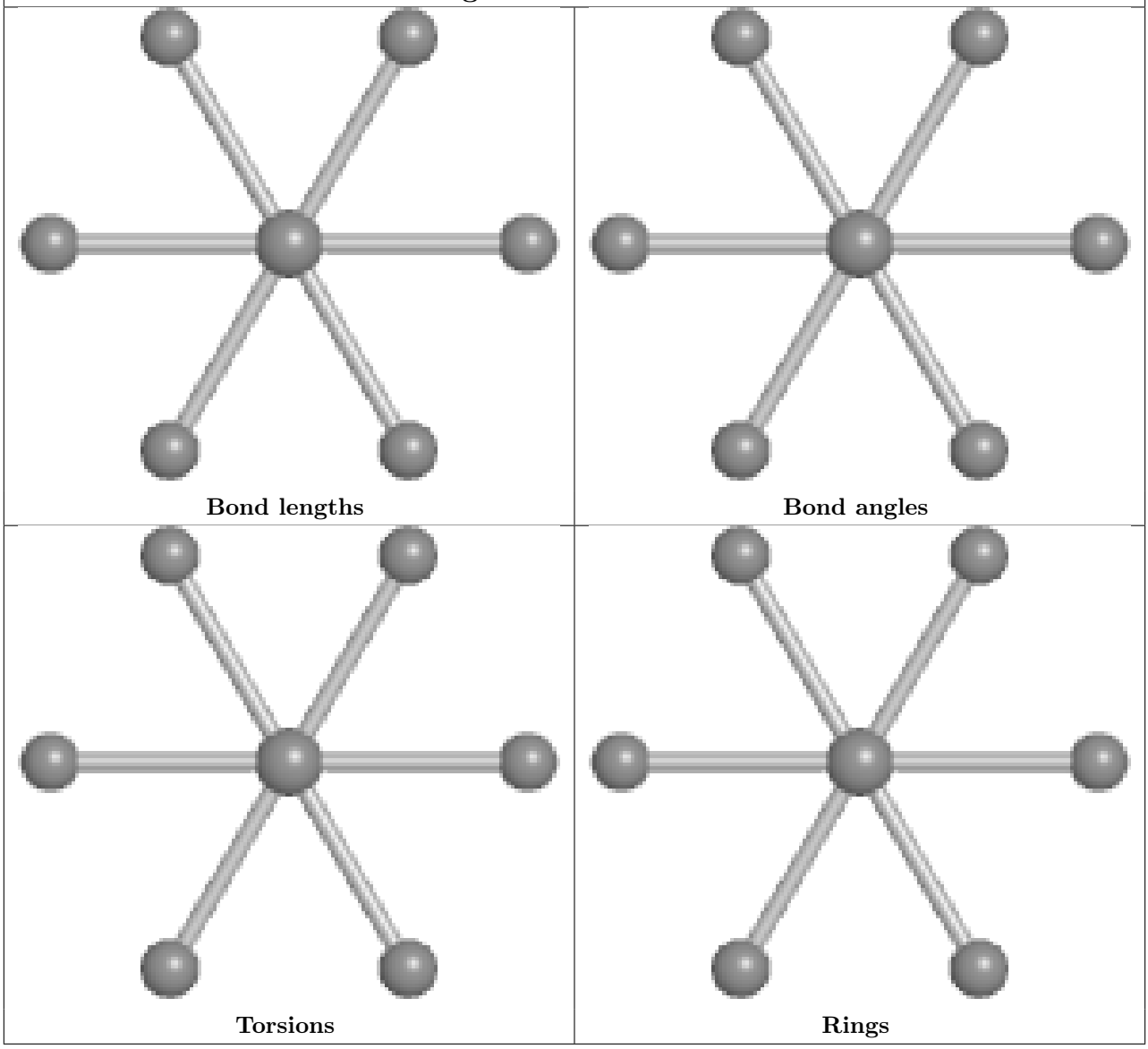


Torsions



Rings

Ligand OHX 5 3709



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
1	2	2
82	m2	2
80	sM	1

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Mol	Chain	Number of breaks
68	O2	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	sM	139:UNK	C	155:UNK	N	37.77
1	2	1716:C	O3'	1717:G	P	4.09
1	m2	23:UNK	C	28:UNK	N	3.84
1	m2	52:UNK	C	54:UNK	N	3.47
1	2	1685:G	O3'	1686:C	P	3.06
1	O2	51:SER	C	52:GLN	N	1.19

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	2	1781/1800 (98%)	0.33	37 (2%) 63 42	54, 93, 190, 248	0
1	6	1795/1800 (99%)	0.18	30 (1%) 69 48	41, 80, 181, 246	0
2	S0	206/206 (100%)	0.78	10 (4%) 35 18	92, 107, 120, 134	0
2	s0	206/206 (100%)	0.70	12 (5%) 29 16	77, 95, 110, 124	0
3	S1	214/216 (99%)	1.05	15 (7%) 22 12	101, 136, 157, 161	0
3	s1	216/216 (100%)	0.55	5 (2%) 61 39	79, 98, 118, 131	0
4	S2	217/217 (100%)	0.65	10 (4%) 37 20	75, 88, 102, 114	0
4	s2	217/217 (100%)	0.54	8 (3%) 45 25	62, 78, 91, 106	0
5	S3	223/223 (100%)	0.94	10 (4%) 38 20	82, 97, 126, 136	0
5	s3	223/223 (100%)	1.09	37 (16%) 4 2	82, 119, 148, 156	0
6	S4	260/260 (100%)	0.73	10 (3%) 44 25	65, 93, 104, 136	0
6	s4	260/260 (100%)	0.48	6 (2%) 61 39	52, 76, 92, 126	0
7	S5	206/206 (100%)	1.03	16 (7%) 19 10	102, 125, 135, 149	0
7	s5	206/206 (100%)	0.87	16 (7%) 19 10	76, 104, 123, 130	0
8	S6	226/226 (100%)	1.14	28 (12%) 8 5	68, 109, 126, 143	0
8	s6	218/226 (96%)	0.67	11 (5%) 34 18	52, 86, 103, 121	0
9	S7	184/186 (98%)	1.04	17 (9%) 14 8	84, 117, 140, 147	0
9	s7	186/186 (100%)	0.89	11 (5%) 28 15	71, 111, 139, 148	0
10	S8	188/200 (94%)	0.53	4 (2%) 63 42	59, 77, 113, 129	0
10	s8	188/200 (94%)	0.66	5 (2%) 56 35	49, 71, 110, 133	0
11	S9	185/185 (100%)	0.91	11 (5%) 28 15	84, 101, 137, 158	0
11	s9	185/185 (100%)	0.84	11 (5%) 28 15	65, 82, 117, 141	0
12	C0	96/98 (97%)	0.93	9 (9%) 14 8	89, 114, 145, 157	0
12	c0	96/98 (97%)	1.41	24 (25%) 2 1	116, 151, 162, 169	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	C1	155/156 (99%)	0.72	9 (5%) 29 16	61, 76, 122, 126	0
13	c1	146/156 (93%)	0.78	13 (8%) 15 8	50, 68, 96, 120	0
14	C2	124/124 (100%)	0.91	8 (6%) 25 13	147, 156, 166, 169	0
14	c2	124/124 (100%)	1.07	13 (10%) 11 6	196, 205, 216, 219	0
15	C3	150/150 (100%)	0.57	2 (1%) 75 56	70, 89, 102, 109	0
15	c3	150/150 (100%)	0.58	2 (1%) 75 56	63, 80, 98, 102	0
16	C4	127/128 (99%)	1.18	20 (15%) 5 2	71, 126, 142, 143	0
16	c4	128/128 (100%)	0.46	4 (3%) 51 30	57, 95, 104, 113	0
17	C5	124/142 (87%)	0.97	9 (7%) 21 11	88, 106, 128, 144	0
17	c5	135/142 (95%)	1.48	35 (25%) 1 1	77, 113, 129, 134	0
18	C6	141/142 (99%)	1.32	23 (16%) 4 2	84, 113, 119, 123	0
18	c6	142/142 (100%)	1.09	21 (14%) 5 3	72, 96, 114, 138	0
19	C7	120/136 (88%)	1.10	16 (13%) 7 4	93, 109, 132, 135	0
19	c7	117/136 (86%)	0.69	7 (5%) 27 15	83, 101, 117, 122	0
20	C8	145/145 (100%)	0.93	13 (8%) 15 8	84, 114, 141, 149	0
20	c8	145/145 (100%)	0.78	10 (6%) 23 12	78, 97, 115, 124	0
21	C9	143/143 (100%)	1.12	16 (11%) 10 5	96, 110, 124, 132	0
21	c9	143/143 (100%)	0.64	3 (2%) 63 42	70, 86, 106, 118	0
22	D0	107/110 (97%)	1.28	21 (19%) 3 1	78, 112, 139, 142	0
22	d0	110/110 (100%)	1.05	15 (13%) 7 4	78, 118, 151, 154	0
23	D1	87/87 (100%)	0.52	2 (2%) 61 39	88, 96, 111, 119	0
23	d1	87/87 (100%)	0.43	0 100 100	71, 83, 106, 117	0
24	D2	129/129 (100%)	0.81	7 (5%) 31 17	69, 83, 90, 99	0
24	d2	129/129 (100%)	0.52	1 (0%) 82 65	56, 68, 78, 85	0
25	D3	144/144 (100%)	0.47	3 (2%) 63 42	61, 69, 83, 101	0
25	d3	144/144 (100%)	0.27	3 (2%) 63 42	51, 56, 70, 87	0
26	D4	134/134 (100%)	0.85	6 (4%) 38 20	83, 104, 120, 126	0
26	d4	134/134 (100%)	0.67	6 (4%) 38 20	61, 87, 101, 110	0
27	D5	70/70 (100%)	0.92	6 (8%) 16 9	123, 140, 145, 146	0
27	d5	69/70 (98%)	0.83	2 (2%) 53 32	92, 113, 123, 126	0
28	D6	97/97 (100%)	1.32	19 (19%) 3 1	78, 96, 144, 146	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	d6	97/97 (100%)	0.81	7 (7%) 21 11	62, 78, 106, 112	0
29	D7	81/81 (100%)	0.86	2 (2%) 58 37	86, 104, 137, 138	0
29	d7	81/81 (100%)	0.65	2 (2%) 58 37	74, 92, 133, 136	0
30	D8	63/63 (100%)	1.06	6 (9%) 14 7	111, 131, 140, 142	0
30	d8	63/63 (100%)	1.08	6 (9%) 14 7	96, 115, 125, 132	0
31	D9	53/53 (100%)	1.29	12 (22%) 2 1	81, 86, 112, 118	0
31	d9	53/53 (100%)	1.21	11 (20%) 2 1	77, 94, 143, 158	0
32	E0	60/62 (96%)	0.81	4 (6%) 24 13	70, 103, 131, 136	0
32	e0	62/62 (100%)	0.62	6 (9%) 13 7	56, 84, 115, 127	0
33	E1	71/76 (93%)	1.16	13 (18%) 3 1	110, 142, 152, 154	0
33	e1	76/76 (100%)	1.59	23 (30%) 1 1	120, 187, 198, 200	0
34	SR	318/318 (100%)	1.10	37 (11%) 9 5	107, 124, 138, 158	0
34	sR	318/318 (100%)	0.87	18 (5%) 29 16	108, 128, 144, 156	0
35	SM	133/176 (75%)	0.86	15 (11%) 10 5	62, 94, 148, 159	0
36	1	3149/3396 (92%)	-0.16	31 (0%) 79 61	31, 56, 138, 237	0
36	5	3150/3396 (92%)	-0.22	37 (1%) 76 58	29, 54, 127, 213	0
37	3	121/121 (100%)	0.26	0 100 100	45, 83, 107, 113	0
37	7	121/121 (100%)	-0.22	1 (0%) 82 65	36, 59, 72, 85	0
38	4	158/158 (100%)	-0.23	0 100 100	36, 56, 97, 138	0
38	8	158/158 (100%)	-0.02	5 (3%) 50 30	42, 65, 107, 142	0
39	L2	252/252 (100%)	0.24	6 (2%) 59 38	37, 54, 70, 85	0
39	l2	252/252 (100%)	0.48	13 (5%) 33 17	40, 61, 80, 87	0
40	L3	386/386 (100%)	0.37	10 (2%) 57 36	39, 64, 80, 97	0
40	l3	386/386 (100%)	-0.01	3 (0%) 82 65	30, 46, 64, 92	0
41	L4	361/361 (100%)	0.04	2 (0%) 85 70	33, 49, 70, 78	0
41	l4	361/361 (100%)	0.19	1 (0%) 90 80	38, 57, 76, 87	0
42	L5	296/296 (100%)	0.71	13 (4%) 39 21	58, 91, 113, 136	0
42	l5	294/296 (99%)	0.45	7 (2%) 59 38	42, 64, 88, 109	0
43	L6	156/176 (88%)	0.03	1 (0%) 85 70	44, 55, 73, 84	0
43	l6	157/176 (89%)	0.17	2 (1%) 75 56	48, 56, 79, 92	0
44	L7	222/223 (99%)	0.05	3 (1%) 73 53	39, 49, 80, 119	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	l7	223/223 (100%)	0.00	0 100 100	35, 45, 86, 119	0
45	L8	233/233 (100%)	0.77	11 (4%) 36 19	62, 79, 117, 130	0
46	L9	191/191 (100%)	0.93	13 (6%) 23 12	64, 76, 90, 106	0
46	l9	191/191 (100%)	0.01	2 (1%) 79 61	43, 52, 72, 86	0
47	M0	211/221 (95%)	0.48	10 (4%) 36 19	44, 67, 103, 110	0
47	m0	213/221 (96%)	0.23	8 (3%) 44 25	37, 55, 83, 102	0
48	M1	169/169 (100%)	0.83	9 (5%) 32 17	75, 94, 108, 118	0
48	m1	169/169 (100%)	0.29	0 100 100	47, 69, 81, 85	0
49	M3	193/194 (99%)	0.17	4 (2%) 63 42	36, 60, 100, 131	0
49	m3	194/194 (100%)	0.50	4 (2%) 63 42	42, 72, 112, 125	0
50	M4	136/137 (99%)	0.33	3 (2%) 62 41	51, 61, 78, 91	0
50	m4	137/137 (100%)	0.02	4 (2%) 53 32	44, 51, 68, 84	0
51	M5	203/203 (100%)	0.22	0 100 100	36, 50, 61, 64	0
51	m5	203/203 (100%)	0.56	5 (2%) 58 37	45, 63, 76, 80	0
52	M6	197/197 (100%)	0.24	4 (2%) 65 44	39, 50, 72, 78	0
52	m6	197/197 (100%)	0.06	1 (0%) 87 73	31, 37, 68, 76	0
53	M7	183/183 (100%)	0.34	8 (4%) 39 21	40, 49, 107, 132	0
53	m7	155/183 (84%)	0.03	1 (0%) 85 70	36, 45, 61, 89	0
54	M8	185/185 (100%)	0.13	3 (1%) 70 49	39, 49, 65, 85	0
54	m8	185/185 (100%)	0.28	1 (0%) 87 73	38, 56, 68, 74	0
55	M9	188/188 (100%)	0.52	9 (4%) 35 19	57, 72, 146, 153	0
55	m9	188/188 (100%)	0.42	6 (3%) 50 30	52, 66, 133, 143	0
56	N0	172/172 (100%)	0.38	3 (1%) 69 48	50, 60, 75, 81	0
56	n0	172/172 (100%)	-0.11	1 (0%) 85 70	37, 45, 59, 73	0
57	N1	159/159 (100%)	0.40	4 (2%) 58 37	43, 57, 103, 110	0
57	n1	159/159 (100%)	0.18	1 (0%) 85 70	40, 47, 91, 97	0
58	N2	100/100 (100%)	0.71	3 (3%) 52 31	90, 104, 113, 114	0
58	n2	98/100 (98%)	0.69	2 (2%) 65 44	80, 92, 102, 105	0
59	N3	136/136 (100%)	0.27	1 (0%) 84 68	46, 60, 74, 83	0
59	n3	136/136 (100%)	-0.04	2 (1%) 72 52	32, 43, 59, 67	0
60	N4	98/98 (100%)	1.32	25 (25%) 1 1	59, 72, 144, 146	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
61	N5	121/121 (100%)	0.38	6 (4%) 34 18	50, 66, 79, 104	0
61	n5	120/121 (99%)	0.66	7 (5%) 29 16	56, 72, 90, 106	0
62	N6	126/126 (100%)	0.17	2 (1%) 70 49	42, 58, 72, 85	0
62	n6	126/126 (100%)	0.52	4 (3%) 50 30	50, 67, 84, 91	0
63	N7	135/135 (100%)	0.58	2 (1%) 72 52	75, 91, 103, 109	0
63	n7	135/135 (100%)	0.92	3 (2%) 62 41	87, 102, 115, 123	0
64	N8	148/148 (100%)	0.10	3 (2%) 65 44	30, 52, 77, 86	0
64	n8	148/148 (100%)	0.35	1 (0%) 84 68	34, 58, 80, 84	0
65	N9	58/58 (100%)	0.54	5 (8%) 16 9	37, 60, 105, 119	0
65	n9	58/58 (100%)	0.54	5 (8%) 16 9	37, 58, 83, 93	0
66	O0	97/100 (97%)	0.45	3 (3%) 51 30	75, 85, 106, 114	0
66	o0	100/100 (100%)	0.46	5 (5%) 34 18	79, 90, 114, 122	0
67	O1	109/109 (100%)	0.66	5 (4%) 37 20	55, 68, 96, 104	0
67	o1	109/109 (100%)	0.33	0 100 100	44, 58, 91, 114	0
68	O2	127/127 (100%)	0.04	3 (2%) 59 38	34, 45, 59, 78	0
68	o2	127/127 (100%)	0.19	4 (3%) 51 30	33, 52, 68, 89	0
69	O3	106/106 (100%)	0.06	0 100 100	40, 46, 68, 83	0
69	o3	106/106 (100%)	-0.03	0 100 100	35, 43, 68, 84	0
70	O4	112/112 (100%)	0.86	6 (5%) 31 17	49, 70, 107, 115	0
70	o4	112/112 (100%)	0.71	6 (5%) 31 17	53, 74, 114, 119	0
71	O5	119/119 (100%)	0.52	4 (3%) 48 28	47, 68, 77, 80	0
71	o5	119/119 (100%)	0.73	5 (4%) 40 22	60, 78, 88, 98	0
72	O6	99/99 (100%)	0.31	1 (1%) 79 61	57, 68, 99, 114	0
72	o6	99/99 (100%)	0.61	3 (3%) 52 31	66, 79, 100, 115	0
73	O7	87/87 (100%)	0.35	3 (3%) 48 28	39, 44, 65, 77	0
73	o7	87/87 (100%)	0.40	4 (4%) 37 20	40, 51, 81, 100	0
74	O8	77/77 (100%)	0.73	6 (7%) 19 10	80, 92, 104, 107	0
74	o8	77/77 (100%)	0.71	1 (1%) 75 56	85, 96, 106, 108	0
75	O9	50/50 (100%)	0.55	6 (12%) 9 5	46, 52, 58, 59	0
75	o9	50/50 (100%)	0.49	3 (6%) 27 15	48, 56, 67, 70	0
76	Q0	52/52 (100%)	0.58	1 (1%) 66 45	55, 65, 84, 93	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
76	q0	52/52 (100%)	-0.10	0 100 100	38, 43, 58, 62	0
77	Q1	25/25 (100%)	0.43	0 100 100	57, 59, 62, 62	0
77	q1	25/25 (100%)	0.45	1 (4%) 42 23	46, 52, 57, 60	0
78	Q2	105/105 (100%)	0.20	1 (0%) 79 61	42, 63, 90, 117	0
78	q2	105/105 (100%)	0.05	0 100 100	46, 61, 83, 105	0
79	Q3	91/91 (100%)	0.40	1 (1%) 78 59	45, 58, 76, 83	0
79	q3	91/91 (100%)	0.27	2 (2%) 62 41	43, 62, 77, 89	0
80	sM	63/159 (39%)	1.25	10 (15%) 5 2	53, 109, 119, 121	0
81	l8	231/231 (100%)	0.87	19 (8%) 17 10	77, 92, 121, 130	0
82	m2	0/155	-	-	-	-
83	n4	135/135 (100%)	0.79	11 (8%) 18 10	43, 90, 125, 142	0
84	p0	143/312 (45%)	1.08	17 (11%) 9 5	91, 112, 173, 175	0
85	p1	0/47	-	-	-	-
85	p2	0/47	-	-	-	-
All	All	33027/34321 (96%)	0.39	1282 (3%) 43 24	29, 74, 138, 248	0

All (1282) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
60	N4	86	SER	9.2
73	O7	88	ALA	7.7
60	N4	85	ALA	6.6
7	S5	152	GLY	6.3
13	c1	3	THR	6.1
8	S6	80	ASN	5.9
56	N0	1	MET	5.8
36	5	2873	U	5.4
73	o7	88	ALA	5.4
53	M7	184	ALA	5.3
11	s9	2	PRO	5.1
60	N4	88	ASP	5.0
9	S7	98	ILE	5.0
3	s1	54	LEU	4.9
11	S9	2	PRO	4.9
70	o4	34	HIS	4.9
39	l2	248	GLY	4.8
33	e1	80	ARG	4.8
32	e0	49	LEU	4.8

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Mol	Chain	Res	Type	RSRZ
60	N4	82	ILE	4.7
83	n4	68	ALA	4.6
7	S5	37	GLN	4.6
13	C1	145	ALA	4.6
60	N4	89	LEU	4.5
4	s2	90	THR	4.5
52	m6	184	THR	4.5
22	d0	64	LYS	4.5
36	5	1567	U	4.5
33	e1	77	GLY	4.4
1	2	1702	A	4.4
18	C6	132	LYS	4.4
5	s3	25	PHE	4.4
70	O4	34	HIS	4.4
81	l8	254	ASP	4.3
7	S5	41	LYS	4.3
1	2	1699	G	4.2
7	s5	37	GLN	4.2
47	M0	218	ALA	4.2
3	s1	89	ASP	4.2
46	L9	178	GLY	4.2
71	o5	120	ALA	4.1
80	sM	52	PRO	4.1
13	c1	5	LEU	4.1
1	6	678	A	4.1
12	c0	15	LEU	4.1
60	N4	83	THR	4.1
45	L8	158	ASP	4.0
1	2	1698	G	4.0
17	c5	8	LYS	4.0
8	S6	226	ILE	4.0
84	p0	192	ASP	4.0
4	s2	92	ALA	4.0
12	c0	65	TYR	4.0
33	E1	87	THR	4.0
3	S1	138	PHE	3.9
39	l2	252	THR	3.9
8	S6	78	THR	3.9
8	S6	222	GLU	3.9
5	s3	29	LEU	3.9
61	n5	23	ALA	3.9
18	c6	121	SER	3.9

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Mol	Chain	Res	Type	RSRZ
39	L2	253	GLN	3.9
1	6	1217	A	3.9
1	2	261	U	3.9
9	s7	8	ILE	3.9
53	M7	182	ILE	3.9
12	c0	49	LEU	3.9
17	c5	129	GLY	3.8
1	2	1686	C	3.8
5	s3	21	LEU	3.8
33	e1	145	HIS	3.8
16	c4	125	SER	3.8
73	O7	87	SER	3.8
11	S9	5	PRO	3.8
5	s3	182	LEU	3.8
42	l5	4	GLN	3.8
43	l6	67	GLY	3.7
25	D3	3	LYS	3.7
59	N3	2	SER	3.7
81	l8	121	SER	3.7
18	c6	142	TYR	3.7
2	S0	158	VAL	3.7
32	e0	62	VAL	3.7
14	c2	107	ASP	3.7
60	N4	84	GLY	3.7
65	N9	25	LYS	3.7
80	sM	54	PRO	3.7
5	s3	145	ALA	3.7
2	s0	207	PRO	3.6
32	E0	60	PRO	3.6
11	s9	33	GLU	3.6
39	l2	249	SER	3.6
16	C4	16	VAL	3.6
12	c0	84	GLU	3.6
80	sM	83	LYS	3.6
13	c1	113	PRO	3.6
60	N4	81	PRO	3.6
60	N4	76	VAL	3.6
14	c2	71	ILE	3.6
28	D6	98	PRO	3.6
8	S6	225	GLU	3.6
28	d6	4	LYS	3.6
60	N4	75	THR	3.6

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Mol	Chain	Res	Type	RSRZ
31	d9	27	HIS	3.5
21	C9	37	VAL	3.5
50	M4	138	ALA	3.5
70	O4	2	ALA	3.5
33	e1	79	LYS	3.5
18	C6	39	VAL	3.5
36	1	1103	A	3.5
81	l8	246	MET	3.5
42	L5	151	GLN	3.5
34	SR	55	GLY	3.5
28	D6	45	VAL	3.5
1	2	1696	G	3.5
11	S9	130	THR	3.5
81	l8	123	GLN	3.5
47	m0	103	LEU	3.5
35	SM	87	THR	3.5
39	l2	253	GLN	3.5
81	l8	124	ASP	3.5
36	1	2874	G	3.5
35	SM	9	GLY	3.4
30	d8	65	ARG	3.4
84	p0	69	ASP	3.4
12	c0	25	LYS	3.4
36	1	1581	C	3.4
68	o2	128	LEU	3.4
47	m0	111	LEU	3.4
4	S2	96	THR	3.4
12	c0	64	TYR	3.4
34	sR	136	ILE	3.4
2	S0	32	HIS	3.4
5	S3	179	GLN	3.4
12	C0	28	ASN	3.4
80	sM	84	LYS	3.4
47	M0	112	GLN	3.4
68	o2	26	HIS	3.4
15	C3	13	SER	3.3
27	D5	97	LYS	3.3
33	e1	82	LYS	3.3
61	N5	23	ALA	3.3
14	c2	123	VAL	3.3
30	D8	53	ILE	3.3
47	M0	113	GLN	3.3

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Mol	Chain	Res	Type	RSRZ
1	2	1718	G	3.3
8	s6	155	ASP	3.3
2	S0	207	PRO	3.3
4	s2	89	GLN	3.3
84	p0	188	VAL	3.3
20	c8	18	LEU	3.3
65	N9	26	THR	3.3
9	s7	109	VAL	3.3
1	2	1693	A	3.3
36	1	1353	U	3.3
20	C8	142	GLY	3.3
9	s7	123	ASP	3.2
68	O2	26	HIS	3.2
8	S6	162	VAL	3.2
22	d0	118	VAL	3.2
22	D0	103	ILE	3.2
1	6	679	U	3.2
36	1	2873	U	3.2
36	5	1103	A	3.2
12	c0	40	LEU	3.2
34	SR	44	SER	3.2
13	c1	145	ALA	3.2
53	M7	183	ALA	3.2
16	C4	102	LEU	3.2
36	5	1568	U	3.2
36	5	1569	U	3.2
28	D6	2	PRO	3.2
5	s3	139	SER	3.2
36	5	2874	G	3.2
39	l2	250	GLN	3.2
35	SM	16	ASP	3.2
48	M1	8	PRO	3.2
45	L8	116	VAL	3.2
16	C4	39	ILE	3.2
56	n0	1	MET	3.2
36	5	1566	A	3.2
17	c5	91	GLY	3.2
60	N4	87	LEU	3.2
12	c0	27	PHE	3.2
16	C4	27	PHE	3.2
31	d9	6	VAL	3.2
10	S8	152	ILE	3.2

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Mol	Chain	Res	Type	RSRZ
27	D5	41	ILE	3.2
39	l2	247	ARG	3.2
18	c6	115	THR	3.2
40	L3	22	ALA	3.2
36	1	2404	A	3.1
2	S0	29	VAL	3.1
72	o6	3	VAL	3.1
18	c6	2	SER	3.1
34	SR	27	ALA	3.1
10	s8	61	GLU	3.1
31	D9	6	VAL	3.1
11	s9	8	TYR	3.1
19	C7	97	ASN	3.1
80	sM	50	ASN	3.1
3	S1	140	ILE	3.1
5	s3	115	ILE	3.1
20	C8	35	ILE	3.1
34	SR	83	ALA	3.1
1	2	658	C	3.1
18	C6	52	LEU	3.1
63	n7	80	LEU	3.1
1	6	651	G	3.1
11	s9	148	VAL	3.1
2	S0	161	PRO	3.1
34	SR	79	TYR	3.1
1	2	1708	U	3.1
60	N4	90	ILE	3.1
17	c5	4	ALA	3.1
36	5	440	A	3.1
36	1	1192	C	3.1
8	S6	149	LYS	3.1
17	c5	74	ALA	3.1
33	e1	152	ALA	3.1
12	c0	60	SER	3.1
70	o4	17	SER	3.1
17	c5	138	PHE	3.1
17	c5	9	LYS	3.1
18	c6	132	LYS	3.1
22	D0	20	ILE	3.1
71	O5	120	ALA	3.0
31	d9	17	GLY	3.0
34	SR	263	PHE	3.0

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Mol	Chain	Res	Type	RSRZ
14	C2	107	ASP	3.0
5	S3	88	ALA	3.0
46	L9	191	LEU	3.0
19	C7	123	ASN	3.0
12	C0	89	GLY	3.0
20	c8	141	THR	3.0
9	S7	91	ILE	3.0
17	c5	125	PRO	3.0
21	C9	35	ASP	3.0
49	M3	52	ASP	3.0
13	c1	116	ARG	3.0
77	q1	25	LYS	3.0
10	S8	21	PHE	3.0
31	d9	8	PHE	3.0
45	L8	202	GLU	3.0
33	E1	88	PRO	3.0
8	S6	148	SER	3.0
1	2	1720	G	3.0
5	s3	184	ILE	3.0
39	l2	143	GLU	3.0
10	S8	8	ARG	3.0
2	S0	2	SER	3.0
25	D3	2	GLY	3.0
84	p0	184	GLY	3.0
68	O2	128	LEU	2.9
81	l8	238	LEU	2.9
84	p0	70	LEU	2.9
1	2	1695	G	2.9
5	s3	144	ALA	2.9
18	C6	18	ALA	2.9
1	2	1694	A	2.9
39	L2	201	GLY	2.9
64	N8	116	GLY	2.9
17	C5	45	PHE	2.9
13	c1	2	SER	2.9
13	c1	147	GLY	2.9
18	C6	120	ASP	2.9
71	o5	79	ASP	2.9
31	D9	31	ILE	2.9
3	S1	47	LEU	2.9
36	1	2207	A	2.9
4	S2	82	ASN	2.9

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Mol	Chain	Res	Type	RSRZ
5	s3	151	LYS	2.9
33	e1	144	CYS	2.9
8	S6	207	GLU	2.9
21	C9	2	PRO	2.9
28	D6	97	PRO	2.9
36	5	1192	C	2.9
1	6	1398	U	2.9
38	8	81	U	2.9
34	sR	28	GLY	2.9
35	SM	85	SER	2.9
13	C1	152	GLN	2.9
30	D8	16	LEU	2.9
42	L5	92	LEU	2.9
21	C9	8	ASP	2.9
16	c4	60	ALA	2.9
17	c5	73	PRO	2.9
25	d3	60	GLU	2.9
34	sR	162	ALA	2.9
40	L3	200	GLU	2.9
83	n4	66	GLU	2.9
5	s3	180	GLY	2.9
12	c0	41	TYR	2.9
6	S4	162	ILE	2.9
30	d8	21	SER	2.9
47	M0	203	LYS	2.9
62	n6	126	LEU	2.9
8	S6	182	GLN	2.9
33	E1	152	ALA	2.9
73	o7	86	ALA	2.9
83	n4	131	ALA	2.9
10	s8	183	ILE	2.9
33	E1	103	LEU	2.9
33	e1	78	LYS	2.9
57	N1	160	ILE	2.9
9	S7	123	ASP	2.8
19	c7	90	ALA	2.8
30	d8	15	VAL	2.8
48	M1	148	VAL	2.8
39	l2	213	GLY	2.8
5	s3	177	MET	2.8
8	S6	158	ILE	2.8
36	5	2971	A	2.8

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Mol	Chain	Res	Type	RSRZ
60	N4	72	SER	2.8
47	M0	221	ALA	2.8
36	1	1351	U	2.8
17	C5	50	THR	2.8
1	2	1709	C	2.8
28	d6	90	GLU	2.8
62	N6	127	GLU	2.8
12	C0	2	LEU	2.8
22	D0	19	ILE	2.8
22	D0	54	GLY	2.8
40	L3	387	LEU	2.8
29	D7	19	HIS	2.8
8	s6	182	GLN	2.8
61	N5	50	ALA	2.8
70	o4	79	SER	2.8
40	l3	146	ARG	2.8
28	D6	58	VAL	2.8
46	L9	188	THR	2.8
52	M6	40	GLU	2.8
36	1	440	A	2.8
14	c2	45	LEU	2.8
34	sR	32	LEU	2.8
27	D5	71	ILE	2.8
36	5	1356	U	2.8
36	5	2506	U	2.8
84	p0	73	PHE	2.8
1	2	234	G	2.8
36	5	1582	C	2.8
41	L4	311	HIS	2.8
12	c0	45	ALA	2.8
13	c1	144	ALA	2.8
66	o0	7	GLN	2.8
17	c5	5	VAL	2.8
20	C8	22	VAL	2.8
3	S1	25	THR	2.8
13	C1	44	THR	2.8
13	c1	31	THR	2.8
34	SR	81	LEU	2.8
34	sR	252	LEU	2.8
31	D9	8	PHE	2.8
12	C0	96	ASN	2.8
55	M9	85	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
8	S6	65	GLN	2.8
44	L7	26	VAL	2.8
24	D2	30	SER	2.8
2	S0	122	ILE	2.8
12	c0	43	ILE	2.8
12	c0	67	THR	2.8
84	p0	86	PHE	2.7
6	S4	57	ASN	2.7
18	c6	114	ARG	2.7
34	SR	102	ARG	2.7
42	L5	7	ALA	2.7
1	6	794	U	2.7
18	c6	139	GLN	2.7
9	s7	16	LEU	2.7
19	c7	96	SER	2.7
13	C1	3	THR	2.7
23	D1	10	GLU	2.7
31	D9	9	SER	2.7
31	d9	4	GLU	2.7
84	p0	68	SER	2.7
39	L2	20	THR	2.7
11	S9	38	ASN	2.7
31	D9	5	ASN	2.7
71	o5	115	LYS	2.7
28	D6	6	ALA	2.7
12	c0	21	VAL	2.7
48	M1	6	GLN	2.7
1	2	320	U	2.7
19	C7	41	ILE	2.7
36	5	3275	U	2.7
6	S4	25	GLY	2.7
75	O9	46	ARG	2.7
18	c6	119	ALA	2.7
5	s3	176	LEU	2.7
14	C2	103	LEU	2.7
14	c2	32	LEU	2.7
18	c6	57	LEU	2.7
11	s9	146	PHE	2.7
7	s5	150	GLY	2.7
7	s5	181	GLU	2.7
22	D0	120	SER	2.7
65	N9	59	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
5	s3	219	ALA	2.7
6	S4	54	TYR	2.7
8	S6	169	TYR	2.7
11	S9	95	TYR	2.7
18	c6	113	ASP	2.7
53	M7	161	ALA	2.7
9	s7	64	VAL	2.7
16	C4	137	LEU	2.7
4	s2	199	GLN	2.7
12	c0	93	GLN	2.7
22	d0	99	ILE	2.7
24	D2	34	ILE	2.7
31	D9	20	GLN	2.7
34	SR	43	ILE	2.7
47	M0	220	GLN	2.7
60	N4	63	ILE	2.7
16	C4	92	LYS	2.7
17	c5	113	GLY	2.7
60	N4	69	LYS	2.7
81	l8	182	GLY	2.7
81	l8	245	LYS	2.7
7	s5	27	THR	2.7
8	s6	78	THR	2.7
1	2	1697	G	2.7
42	L5	220	SER	2.7
13	C1	146	ALA	2.7
55	M9	189	ALA	2.7
1	2	1059	U	2.7
1	2	1370	U	2.7
8	S6	77	LEU	2.7
8	S6	153	VAL	2.7
61	n5	24	LEU	2.7
70	O4	23	VAL	2.7
84	p0	88	PHE	2.6
8	S6	164	LYS	2.6
48	M1	108	GLU	2.6
59	n3	3	GLY	2.6
34	SR	72	THR	2.6
31	d9	7	TRP	2.6
2	s0	146	LEU	2.6
22	D0	117	VAL	2.6
53	M7	166	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
70	O4	73	SER	2.6
18	C6	66	ARG	2.6
36	1	1349	G	2.6
5	s3	142	LEU	2.6
9	s7	3	ALA	2.6
17	c5	7	ALA	2.6
33	e1	103	LEU	2.6
34	sR	27	ALA	2.6
61	n5	40	LEU	2.6
16	C4	83	ILE	2.6
31	d9	12	ARG	2.6
13	C1	156	PHE	2.6
34	SR	206	PRO	2.6
20	C8	44	ASN	2.6
15	C3	2	GLY	2.6
1	6	663	U	2.6
36	5	1764	U	2.6
36	5	2505	U	2.6
52	M6	100	GLU	2.6
1	2	656	G	2.6
1	6	1228	G	2.6
14	c2	62	LEU	2.6
55	m9	184	LEU	2.6
7	S5	26	ALA	2.6
17	c5	94	VAL	2.6
20	C8	58	ALA	2.6
34	sR	167	VAL	2.6
50	M4	9	ALA	2.6
1	2	793	A	2.6
2	s0	110	TYR	2.6
5	S3	50	ILE	2.6
18	C6	36	ILE	2.6
12	C0	27	PHE	2.6
62	n6	26	GLN	2.6
16	C4	15	GLY	2.6
34	SR	11	GLY	2.6
70	o4	28	GLY	2.6
2	s0	9	LEU	2.6
4	S2	208	GLU	2.6
5	s3	11	LEU	2.6
20	c8	3	LEU	2.6
33	E1	100	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
21	C9	50	ALA	2.6
26	D4	134	ALA	2.6
32	E0	50	VAL	2.6
33	E1	150	VAL	2.6
33	e1	99	LYS	2.6
35	SM	89	ARG	2.6
80	sM	82	THR	2.6
28	D6	4	LYS	2.6
65	n9	59	LYS	2.6
20	C8	73	MET	2.6
11	s9	13	SER	2.6
2	S0	30	GLN	2.6
5	S3	161	GLY	2.6
12	c0	89	GLY	2.6
24	D2	92	ASN	2.6
8	S6	75	LEU	2.6
58	N2	89	LEU	2.6
7	S5	102	ARG	2.6
7	s5	149	VAL	2.6
14	c2	31	VAL	2.6
7	s5	41	LYS	2.6
16	C4	40	ALA	2.6
17	c5	11	VAL	2.6
20	C8	146	ALA	2.6
28	D6	18	VAL	2.6
34	SR	113	VAL	2.6
34	SR	253	ALA	2.6
39	L2	251	LYS	2.6
79	q3	2	ALA	2.6
4	s2	96	THR	2.6
42	L5	93	THR	2.6
33	e1	91	ILE	2.5
1	2	194	U	2.5
6	S4	26	CYS	2.5
36	1	2209	U	2.5
35	SM	21	PRO	2.5
9	S7	145	GLY	2.5
7	s5	42	LEU	2.5
19	C7	100	LEU	2.5
16	C4	118	VAL	2.5
18	c6	143	ARG	2.5
22	D0	31	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
25	D3	27	ASN	2.5
26	D4	70	VAL	2.5
36	5	1349	G	2.5
42	l5	126	GLU	2.5
61	n5	25	LYS	2.5
6	s4	2	ALA	2.5
81	l8	154	ALA	2.5
19	C7	69	ILE	2.5
52	M6	80	PHE	2.5
58	N2	28	PHE	2.5
7	s5	28	PRO	2.5
42	L5	226	TYR	2.5
18	c6	130	GLY	2.5
33	e1	117	LEU	2.5
36	5	981	U	2.5
74	o8	78	LEU	2.5
8	s6	88	ARG	2.5
17	c5	100	LYS	2.5
17	c5	137	ARG	2.5
60	N4	73	ARG	2.5
5	s3	181	VAL	2.5
28	d6	18	VAL	2.5
2	s0	206	ASP	2.5
17	C5	101	ALA	2.5
17	c5	133	ALA	2.5
84	p0	203	ASP	2.5
14	c2	49	THR	2.5
22	D0	60	THR	2.5
17	c5	102	PHE	2.5
5	s3	59	LEU	2.5
1	2	1700	C	2.5
36	1	2772	C	2.5
70	O4	78	GLY	2.5
12	C0	22	VAL	2.5
7	s5	154	ALA	2.5
56	N0	2	ALA	2.5
68	o2	127	ALA	2.5
55	M9	72	GLU	2.5
22	d0	20	ILE	2.5
48	M1	11	ASP	2.5
64	n8	85	ASP	2.5
8	S6	145	PHE	2.5

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Mol	Chain	Res	Type	RSRZ
3	S1	61	LEU	2.5
6	s4	69	HIS	2.5
12	c0	2	LEU	2.5
21	C9	18	TYR	2.5
33	e1	81	LYS	2.5
34	SR	91	LEU	2.5
34	sR	141	LEU	2.5
26	d4	67	GLY	2.5
36	1	1352	A	2.5
72	O6	31	GLY	2.5
8	s6	190	GLN	2.5
17	c5	126	VAL	2.5
31	d9	23	VAL	2.5
10	S8	179	CYS	2.5
46	L9	165	CYS	2.5
1	2	1692	G	2.5
11	s9	134	ILE	2.5
17	c5	118	GLU	2.5
21	c9	111	ILE	2.5
28	D6	41	ILE	2.5
34	SR	211	ILE	2.5
35	SM	13	GLU	2.5
42	L5	148	ILE	2.5
18	c6	120	ASP	2.5
31	D9	55	PHE	2.5
46	L9	190	ASP	2.5
8	S6	79	LYS	2.5
20	c8	145	ARG	2.5
53	M7	163	LYS	2.5
60	N4	93	ARG	2.5
74	O8	71	PRO	2.5
2	s0	189	VAL	2.5
13	c1	146	ALA	2.4
81	l8	125	ALA	2.4
9	S7	187	SER	2.4
16	C4	34	SER	2.4
34	SR	205	SER	2.4
58	n2	15	PHE	2.4
2	S0	190	ASP	2.4
18	c6	98	ASP	2.4
26	d4	133	ASN	2.4
31	D9	28	THR	2.4

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Mol	Chain	Res	Type	RSRZ
40	L3	104	THR	2.4
42	l5	109	THR	2.4
36	5	3154	C	2.4
3	S1	114	VAL	2.4
8	s6	162	VAL	2.4
17	c5	105	VAL	2.4
29	d7	27	GLY	2.4
34	sR	138	GLY	2.4
20	c8	146	ALA	2.4
34	sR	226	ALA	2.4
55	m9	183	ALA	2.4
73	o7	83	ALA	2.4
5	S3	5	ILE	2.4
28	D6	83	ILE	2.4
42	L5	247	ILE	2.4
43	L6	129	GLU	2.4
60	N4	66	GLU	2.4
60	N4	95	SER	2.4
26	d4	128	LYS	2.4
81	l8	43	LYS	2.4
22	D0	81	THR	2.4
36	1	1350	A	2.4
5	s3	41	VAL	2.4
6	S4	196	VAL	2.4
21	C9	34	VAL	2.4
31	D9	14	TYR	2.4
33	e1	84	VAL	2.4
1	2	1705	C	2.4
8	S6	73	ILE	2.4
18	C6	20	ALA	2.4
38	8	83	C	2.4
36	1	1095	U	2.4
36	5	3276	G	2.4
70	o4	20	ILE	2.4
76	Q0	78	ILE	2.4
31	d9	16	LYS	2.4
22	d0	70	THR	2.4
28	d6	11	ASN	2.4
22	D0	51	VAL	2.4
26	d4	26	ASP	2.4
7	S5	150	GLY	2.4
28	D6	17	HIS	2.4

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Mol	Chain	Res	Type	RSRZ
47	M0	114	GLY	2.4
11	S9	4	ALA	2.4
18	c6	3	ALA	2.4
1	6	1196	A	2.4
22	d0	19	ILE	2.4
36	1	1025	A	2.4
63	n7	68	ILE	2.4
39	l2	251	LYS	2.4
75	o9	36	ARG	2.4
17	c5	119	PHE	2.4
1	6	320	U	2.4
8	S6	76	LEU	2.4
18	C6	44	LEU	2.4
61	N5	24	LEU	2.4
67	O1	68	GLU	2.4
83	n4	72	SER	2.4
36	5	1561	G	2.4
36	5	1576	G	2.4
22	d0	97	VAL	2.4
30	D8	44	VAL	2.4
54	M8	186	VAL	2.4
67	O1	67	VAL	2.4
4	S2	163	GLY	2.4
30	D8	43	ASN	2.4
39	l2	142	ASP	2.4
41	l4	311	HIS	2.4
28	D6	36	ILE	2.4
28	D6	63	ALA	2.4
45	L8	196	ALA	2.4
73	O7	86	ALA	2.4
35	SM	103	LYS	2.4
11	s9	48	GLN	2.4
81	l8	94	PHE	2.4
13	c1	4	GLU	2.4
38	8	80	A	2.4
1	2	820	U	2.4
16	C4	28	VAL	2.4
19	C7	9	VAL	2.4
30	D8	55	VAL	2.4
33	E1	147	VAL	2.4
4	S2	145	GLY	2.3
7	s5	38	THR	2.3

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Mol	Chain	Res	Type	RSRZ
16	C4	91	THR	2.3
28	d6	16	GLY	2.3
34	SR	135	THR	2.3
36	5	1016	C	2.3
22	D0	75	GLY	2.3
19	c7	97	ASN	2.3
20	C8	48	LYS	2.3
22	D0	64	LYS	2.3
34	SR	115	ILE	2.3
40	L3	328	ILE	2.3
47	M0	2	ALA	2.3
68	o2	16	LYS	2.3
8	S6	219	ARG	2.3
11	S9	94	ASP	2.3
46	L9	92	TYR	2.3
64	N8	76	ASP	2.3
5	s3	218	LEU	2.3
9	S7	5	GLN	2.3
22	d0	34	LEU	2.3
62	N6	88	GLU	2.3
71	O5	64	GLU	2.3
5	s3	48	VAL	2.3
21	C9	71	VAL	2.3
33	e1	98	VAL	2.3
58	n2	54	VAL	2.3
61	n5	26	VAL	2.3
4	S2	85	PRO	2.3
1	2	1707	A	2.3
18	C6	61	SER	2.3
34	sR	247	PRO	2.3
11	S9	6	ARG	2.3
21	C9	39	THR	2.3
25	d3	110	LYS	2.3
50	m4	8	LYS	2.3
54	M8	100	THR	2.3
67	O1	5	LYS	2.3
22	D0	85	ARG	2.3
43	l6	130	ILE	2.3
45	L8	154	ALA	2.3
20	C8	30	TYR	2.3
22	D0	84	MET	2.3
36	5	2875	U	2.3

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Mol	Chain	Res	Type	RSRZ
66	o0	23	TYR	2.3
1	6	1709	C	2.3
12	c0	26	ASP	2.3
35	SM	14	ASP	2.3
36	1	1196	C	2.3
67	O1	112	ASP	2.3
7	S5	69	PHE	2.3
10	s8	187	GLU	2.3
14	c2	75	VAL	2.3
33	E1	102	VAL	2.3
63	n7	75	VAL	2.3
83	n4	67	VAL	2.3
60	N4	97	LYS	2.3
83	n4	110	LYS	2.3
4	S2	93	GLY	2.3
9	S7	181	ILE	2.3
7	S5	74	ALA	2.3
9	S7	12	ALA	2.3
16	C4	123	SER	2.3
17	c5	120	SER	2.3
21	C9	5	SER	2.3
21	C9	36	ILE	2.3
61	N5	142	ILE	2.3
39	L2	252	THR	2.3
44	L7	27	ALA	2.3
48	M1	98	ALA	2.3
70	o4	2	ALA	2.3
74	O8	49	SER	2.3
84	p0	106	ALA	2.3
33	e1	85	TYR	2.3
65	n9	27	TYR	2.3
9	S7	99	LEU	2.3
40	l3	178	LEU	2.3
65	n9	6	ASN	2.3
74	O8	78	LEU	2.3
1	6	684	A	2.3
3	S1	24	PHE	2.3
1	6	261	U	2.3
36	1	3079	U	2.3
40	L3	139	GLN	2.3
42	l5	151	GLN	2.3
60	N4	92	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
34	sR	117	LYS	2.3
52	M6	3	VAL	2.3
75	O9	36	ARG	2.3
5	s3	217	ILE	2.3
28	D6	20	PRO	2.3
33	E1	91	ILE	2.3
40	L3	381	GLY	2.3
5	S3	171	ALA	2.3
17	C5	54	ALA	2.3
45	L8	256	ALA	2.3
49	M3	132	ALA	2.3
66	O0	95	ALA	2.3
13	C1	2	SER	2.3
33	E1	86	THR	2.3
35	SM	100	THR	2.3
7	S5	165	LEU	2.3
18	C6	21	HIS	2.3
34	SR	89	LEU	2.3
66	o0	84	LEU	2.3
66	o0	104	LEU	2.3
1	6	1150	G	2.3
46	L9	88	TYR	2.3
66	o0	59	TYR	2.3
81	l8	130	TYR	2.3
47	m0	220	GLN	2.3
50	m4	40	ASP	2.3
27	d5	62	VAL	2.3
32	e0	50	VAL	2.3
33	e1	102	VAL	2.3
46	L9	11	GLU	2.3
74	O8	20	VAL	2.3
1	2	1657	U	2.3
9	S7	8	ILE	2.3
7	S5	71	ALA	2.3
7	s5	74	ALA	2.3
18	C6	133	GLY	2.3
33	E1	101	ALA	2.3
31	D9	7	TRP	2.3
34	SR	121	MET	2.3
50	m4	9	ALA	2.3
65	N9	2	ALA	2.3
68	O2	2	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
36	1	439	C	2.3
36	5	1581	C	2.3
12	c0	46	LEU	2.3
13	C1	5	LEU	2.3
14	c2	67	THR	2.3
22	D0	27	THR	2.3
22	D0	78	THR	2.3
22	D0	107	THR	2.3
32	E0	38	LEU	2.3
34	SR	74	THR	2.3
46	l9	191	LEU	2.3
39	L2	218	HIS	2.3
11	s9	164	PHE	2.3
14	C2	141	SER	2.3
33	e1	104	SER	2.3
21	c9	55	TYR	2.3
34	sR	250	TYR	2.3
12	C0	39	ASN	2.3
28	D6	8	ASN	2.3
51	m5	182	ASN	2.3
5	s3	116	ARG	2.3
75	o9	11	GLN	2.3
26	D4	129	VAL	2.3
28	D6	86	VAL	2.3
57	N1	126	VAL	2.3
5	s3	208	ILE	2.2
7	S5	187	ILE	2.2
3	s1	235	GLY	2.2
17	c5	109	PRO	2.2
18	c6	41	PRO	2.2
26	D4	126	ALA	2.2
32	e0	2	ALA	2.2
34	SR	293	ALA	2.2
75	O9	3	ALA	2.2
9	s7	93	LEU	2.2
14	c2	59	LEU	2.2
42	L5	146	LEU	2.2
6	S4	8	HIS	2.2
8	S6	170	THR	2.2
42	L5	55	PHE	2.2
5	s3	141	LYS	2.2
5	s3	148	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
36	5	1017	C	2.2
18	c6	83	GLN	2.2
2	s0	162	CYS	2.2
22	d0	31	VAL	2.2
23	D1	82	VAL	2.2
31	d9	5	ASN	2.2
47	m0	112	GLN	2.2
48	M1	171	VAL	2.2
54	m8	145	ASN	2.2
60	N4	67	VAL	2.2
18	c6	40	GLU	2.2
46	L9	177	ASP	2.2
84	p0	206	ASP	2.2
22	d0	103	ILE	2.2
2	S0	171	GLY	2.2
4	s2	93	GLY	2.2
6	s4	14	ALA	2.2
9	s7	102	PRO	2.2
12	c0	1	MET	2.2
14	C2	117	GLY	2.2
17	C5	80	MET	2.2
39	l2	246	LEU	2.2
47	M0	219	ALA	2.2
49	M3	130	GLY	2.2
71	o5	72	GLY	2.2
5	s3	24	PHE	2.2
17	C5	12	PHE	2.2
1	6	677	G	2.2
8	s6	164	LYS	2.2
34	SR	88	THR	2.2
34	SR	201	THR	2.2
42	l5	270	LYS	2.2
81	l8	32	LYS	2.2
2	s0	101	ARG	2.2
1	2	1701	A	2.2
1	2	1719	A	2.2
1	6	76	A	2.2
36	5	1350	A	2.2
83	n4	95	SER	2.2
33	e1	150	VAL	2.2
17	c5	6	ASN	2.2
1	6	25	C	2.2

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Mol	Chain	Res	Type	RSRZ
36	1	3154	C	2.2
36	5	2507	C	2.2
37	7	73	C	2.2
3	S1	156	ALA	2.2
9	S7	118	LEU	2.2
12	c0	76	LEU	2.2
17	c5	63	ALA	2.2
20	C8	18	LEU	2.2
22	d0	93	LEU	2.2
28	d6	2	PRO	2.2
30	d8	24	GLY	2.2
34	sR	296	ALA	2.2
64	N8	66	ALA	2.2
83	n4	132	GLY	2.2
66	O0	32	LYS	2.2
45	L8	34	PHE	2.2
11	S9	3	ARG	2.2
28	d6	10	ARG	2.2
18	C6	115	THR	2.2
19	C7	8	THR	2.2
72	o6	2	THR	2.2
40	L3	123	TYR	2.2
24	D2	121	VAL	2.2
30	D8	28	VAL	2.2
34	SR	6	VAL	2.2
10	s8	176	SER	2.2
22	D0	76	SER	2.2
1	6	650	U	2.2
36	1	1094	U	2.2
36	1	2205	U	2.2
21	C9	116	ILE	2.2
49	M3	46	ILE	2.2
75	o9	51	ILE	2.2
17	c5	98	ASN	2.2
19	c7	87	GLU	2.2
17	c5	80	MET	2.2
36	1	1355	A	2.2
17	C5	125	PRO	2.2
18	C6	108	ALA	2.2
42	L5	62	CYS	2.2
80	sM	60	ALA	2.2
34	SR	161	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
61	N5	22	LYS	2.2
62	n6	11	ASP	2.2
5	S3	25	PHE	2.2
9	S7	183	PHE	2.2
34	SR	61	PHE	2.2
78	Q2	106	PHE	2.2
1	2	1703	C	2.2
1	6	1209	C	2.2
5	s3	197	THR	2.2
75	O9	34	THR	2.2
5	s3	138	VAL	2.2
12	c0	22	VAL	2.2
22	D0	118	VAL	2.2
26	d4	35	VAL	2.2
7	S5	199	ILE	2.2
18	c6	141	SER	2.2
27	D5	89	ILE	2.2
34	SR	136	ILE	2.2
61	n5	142	ILE	2.2
5	s3	72	LEU	2.2
6	s4	12	LEU	2.2
9	S7	41	LEU	2.2
18	c6	89	LEU	2.2
19	C7	73	LEU	2.2
22	D0	93	LEU	2.2
31	D9	36	LEU	2.2
34	SR	225	LEU	2.2
5	s3	150	MET	2.2
12	c0	94	GLU	2.2
22	D0	74	GLU	2.2
39	l2	109	GLU	2.2
17	C5	9	LYS	2.2
21	C9	38	LYS	2.2
42	l5	287	ALA	2.2
49	m3	195	ALA	2.2
54	M8	70	ALA	2.2
55	m9	3	ASN	2.2
60	N4	68	ALA	2.2
63	N7	52	LYS	2.2
80	sM	29	ASN	2.2
1	2	1491	U	2.2
11	s9	32	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
12	C0	88	PRO	2.2
36	1	1820	U	2.2
38	8	82	U	2.2
42	L5	161	GLY	2.2
40	L3	4	ARG	2.2
46	l9	42	ASP	2.2
1	6	1800	A	2.2
36	1	2971	A	2.2
1	2	1685	G	2.2
1	6	1265	G	2.2
10	s8	67	TRP	2.2
36	1	2522	G	2.2
4	S2	206	THR	2.1
17	c5	134	THR	2.1
1	2	1082	C	2.1
9	s7	91	ILE	2.1
18	C6	43	ILE	2.1
46	L9	179	ILE	2.1
4	s2	154	LEU	2.1
18	C6	89	LEU	2.1
14	C2	105	LYS	2.1
3	S1	139	ALA	2.1
6	S4	177	ALA	2.1
17	c5	136	SER	2.1
26	D4	128	LYS	2.1
28	D6	3	LYS	2.1
33	e1	83	LYS	2.1
34	sR	316	MET	2.1
40	L3	135	ALA	2.1
46	L9	22	SER	2.1
47	m0	102	MET	2.1
56	N0	85	SER	2.1
73	o7	87	SER	2.1
6	s4	15	PRO	2.1
17	C5	53	PRO	2.1
18	C6	143	ARG	2.1
22	d0	83	GLU	2.1
60	N4	65	GLU	2.1
62	n6	127	GLU	2.1
80	sM	66	ALA	2.1
19	C7	2	GLY	2.1
40	l3	369	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
20	c8	25	ASN	2.1
51	m5	181	ASN	2.1
1	2	1710	U	2.1
1	6	680	U	2.1
6	S4	104	ASP	2.1
36	1	1356	U	2.1
66	O0	97	ASP	2.1
8	S6	179	VAL	2.1
17	c5	128	HIS	2.1
4	S2	146	THR	2.1
16	C4	89	THR	2.1
19	C7	25	THR	2.1
21	c9	39	THR	2.1
19	c7	122	ILE	2.1
21	C9	80	TYR	2.1
36	1	2208	A	2.1
36	5	980	A	2.1
36	5	2401	A	2.1
6	S4	44	LEU	2.1
20	C8	101	LEU	2.1
65	n9	25	LYS	2.1
18	c6	24	ALA	2.1
27	D5	36	ALA	2.1
42	L5	291	ALA	2.1
57	N1	121	ALA	2.1
83	n4	103	ALA	2.1
84	p0	107	ALA	2.1
1	6	1439	C	2.1
17	c5	53	PRO	2.1
31	d9	11	PRO	2.1
32	E0	61	SER	2.1
33	e1	146	SER	2.1
34	SR	65	SER	2.1
45	L8	89	GLU	2.1
47	m0	207	GLU	2.1
57	n1	86	GLU	2.1
36	5	2444	C	2.1
84	p0	78	PRO	2.1
3	S1	105	PHE	2.1
3	S1	209	ASN	2.1
18	C6	7	VAL	2.1
22	d0	114	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
25	d3	127	VAL	2.1
35	SM	11	ASP	2.1
53	M7	157	VAL	2.1
33	E1	145	HIS	2.1
1	6	662	U	2.1
2	s0	57	LEU	2.1
3	s1	217	LEU	2.1
6	s4	261	LEU	2.1
8	S6	168	THR	2.1
13	c1	47	THR	2.1
14	c2	88	LEU	2.1
16	C4	119	THR	2.1
20	C8	17	LEU	2.1
20	c8	116	LEU	2.1
26	D4	18	LEU	2.1
35	SM	84	LYS	2.1
45	L8	201	THR	2.1
51	m5	183	THR	2.1
55	M9	50	ILE	2.1
58	N2	100	THR	2.1
61	n5	36	LYS	2.1
70	O4	64	THR	2.1
4	s2	91	ARG	2.1
5	s3	178	ARG	2.1
35	SM	88	ARG	2.1
16	C4	65	GLN	2.1
45	L8	76	ALA	2.1
49	m3	60	ALA	2.1
50	m4	138	ALA	2.1
53	m7	156	ALA	2.1
55	M9	131	ALA	2.1
81	l8	131	ALA	2.1
5	s3	33	GLY	2.1
34	sR	298	GLY	2.1
22	d0	76	SER	2.1
34	SR	120	SER	2.1
59	n3	2	SER	2.1
84	p0	199	SER	2.1
81	l8	252	ASN	2.1
32	e0	47	VAL	2.1
35	SM	19	VAL	2.1
36	5	1953	G	2.1

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Mol	Chain	Res	Type	RSRZ
36	5	2503	G	2.1
55	M9	177	VAL	2.1
84	p0	105	VAL	2.1
8	S6	223	LYS	2.1
34	sR	251	TRP	2.1
2	s0	173	ILE	2.1
3	S1	164	ILE	2.1
9	S7	153	LEU	2.1
17	c5	22	LEU	2.1
22	d0	26	LEU	2.1
65	n9	21	ILE	2.1
74	O8	8	ILE	2.1
81	l8	109	LEU	2.1
83	n4	109	LEU	2.1
5	s3	143	ARG	2.1
18	C6	114	ARG	2.1
9	S7	173	TYR	2.1
18	C6	142	TYR	2.1
20	c8	138	THR	2.1
14	C2	92	ALA	2.1
36	5	3157	U	2.1
9	S7	4	PRO	2.1
34	sR	30	PRO	2.1
60	N4	98	PRO	2.1
79	q3	30	GLU	2.1
80	sM	85	SER	2.1
5	s3	175	VAL	2.1
16	C4	121	VAL	2.1
33	e1	147	VAL	2.1
8	S6	74	LYS	2.1
12	c0	28	ASN	2.1
38	8	79	A	2.1
48	M1	164	LYS	2.1
7	s5	40	ILE	2.1
11	s9	149	ARG	2.1
16	C4	29	HIS	2.1
17	c5	108	ARG	2.1
19	c7	95	ARG	2.1
21	C9	79	LEU	2.1
55	M9	184	LEU	2.1
75	O9	51	ILE	2.1
8	s6	89	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
83	n4	133	THR	2.1
26	d4	134	ALA	2.1
34	SR	212	ALA	2.1
47	m0	195	ALA	2.1
7	s5	151	GLY	2.1
44	L7	225	GLN	2.1
20	c8	128	PHE	2.1
41	L4	143	GLU	2.1
1	2	238	U	2.0
1	2	657	U	2.0
2	s0	58	VAL	2.0
5	s3	16	VAL	2.0
7	S5	70	VAL	2.0
18	C6	95	LYS	2.0
28	D6	12	LYS	2.0
30	d8	45	LYS	2.0
34	SR	46	LYS	2.0
53	M7	165	VAL	2.0
55	M9	51	VAL	2.0
57	N1	124	VAL	2.0
65	N9	28	LYS	2.0
81	l8	106	LYS	2.0
18	C6	121	SER	2.0
19	C7	125	SER	2.0
45	L8	255	SER	2.0
55	M9	59	SER	2.0
72	o6	64	SER	2.0
84	p0	200	SER	2.0
5	s3	110	LEU	2.0
7	S5	122	ASN	2.0
7	s5	130	ILE	2.0
8	s6	80	ASN	2.0
11	S9	116	LEU	2.0
27	D5	50	ILE	2.0
30	d8	13	ILE	2.0
1	6	145	A	2.0
14	C2	130	THR	2.0
17	c5	101	ALA	2.0
19	C7	6	THR	2.0
20	c8	121	ALA	2.0
28	D6	47	ALA	2.0
32	e0	48	THR	2.0

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Mol	Chain	Res	Type	RSRZ
36	5	2439	A	2.0
42	l5	288	ALA	2.0
47	m0	218	ALA	2.0
49	m3	76	THR	2.0
51	m5	185	ALA	2.0
63	N7	124	ALA	2.0
71	o5	6	ALA	2.0
2	s0	193	GLN	2.0
3	S1	63	GLY	2.0
3	s1	53	GLY	2.0
12	C0	13	GLN	2.0
15	c3	8	GLY	2.0
18	C6	88	GLY	2.0
8	s6	135	PRO	2.0
13	C1	4	GLU	2.0
13	c1	29	LYS	2.0
81	l8	112	GLU	2.0
5	S3	181	VAL	2.0
9	S7	90	VAL	2.0
14	c2	86	VAL	2.0
49	m3	125	VAL	2.0
61	N5	26	VAL	2.0
79	Q3	71	VAL	2.0
4	S2	207	LEU	2.0
8	s6	216	LEU	2.0
14	C2	88	LEU	2.0
19	c7	100	LEU	2.0
24	D2	3	ARG	2.0
34	SR	7	LEU	2.0
36	1	1354	G	2.0
36	1	3289	G	2.0
55	m9	185	LEU	2.0
9	s7	31	SER	2.0
19	C7	96	SER	2.0
20	C8	69	ILE	2.0
24	D2	76	SER	2.0
50	M4	10	SER	2.0
67	O1	36	ILE	2.0
1	6	1285	U	2.0
1	6	1491	U	2.0
16	C4	24	ASN	2.0
35	SM	86	ASN	2.0

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Mol	Chain	Res	Type	RSRZ
34	SR	251	TRP	2.0
47	M0	102	MET	2.0
7	s5	85	ALA	2.0
11	S9	181	ALA	2.0
29	d7	45	THR	2.0
34	SR	227	ALA	2.0
55	m9	35	ALA	2.0
71	O5	11	THR	2.0
74	O8	6	THR	2.0
75	O9	2	ALA	2.0
33	e1	106	TYR	2.0
5	S3	166	ASP	2.0
24	d2	85	ASP	2.0
46	L9	142	ASP	2.0
7	s5	152	GLY	2.0
16	c4	97	GLY	2.0
19	C7	71	PHE	2.0
33	E1	129	GLY	2.0
48	M1	96	PHE	2.0
3	S1	92	GLN	2.0
8	S6	171	LYS	2.0
9	s7	110	GLN	2.0
15	c3	62	GLN	2.0
16	c4	92	LYS	2.0
31	D9	16	LYS	2.0
51	m5	152	CYS	2.0
19	C7	42	GLN	2.0
55	m9	180	LYS	2.0
3	S1	225	VAL	2.0
5	S3	135	GLU	2.0
7	S5	23	VAL	2.0
36	5	1580	A	2.0
36	5	2404	A	2.0
71	O5	8	GLU	2.0
7	S5	108	LEU	2.0
19	C7	115	LEU	2.0
21	C9	108	LEU	2.0
29	D7	41	LEU	2.0
39	l2	96	LEU	2.0
24	D2	110	ILE	2.0
27	d5	78	ILE	2.0
46	L9	134	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
1	6	239	C	2.0
1	6	1205	C	2.0
1	6	1399	C	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	1	4035	1/1	-0.07	0.46	111,111,111,111	0
87	MG	2	2108	1/1	0.04	0.43	131,131,131,131	0
87	MG	1	3716	1/1	0.22	0.31	123,123,123,123	0
87	MG	6	2118	1/1	0.39	0.37	109,109,109,109	0
87	MG	2	2111	1/1	0.45	0.43	91,91,91,91	0
87	MG	1	3932	1/1	0.46	0.41	110,110,110,110	0
87	MG	2	2074	1/1	0.49	0.29	107,107,107,107	0
87	MG	2	2077	1/1	0.50	0.43	95,95,95,95	0
87	MG	5	3790	1/1	0.52	0.23	110,110,110,110	0
87	MG	1	4052	1/1	0.53	0.29	75,75,75,75	0
87	MG	2	2072	1/1	0.55	0.34	99,99,99,99	0
87	MG	6	2132	1/1	0.56	0.40	85,85,85,85	0
87	MG	2	2089	1/1	0.57	0.38	84,84,84,84	0
87	MG	5	4028	1/1	0.57	0.23	80,80,80,80	0
87	MG	2	2103	1/1	0.58	0.40	93,93,93,93	0
87	MG	1	3989	1/1	0.60	0.27	82,82,82,82	0
87	MG	M3	201	1/1	0.60	0.33	98,98,98,98	0
87	MG	2	2073	1/1	0.60	0.31	101,101,101,101	0
87	MG	1	3986	1/1	0.61	0.22	93,93,93,93	0
87	MG	2	2032	1/1	0.61	0.38	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	2	2055	1/1	0.61	0.39	86,86,86,86	0
87	MG	6	2100	1/1	0.62	0.29	73,73,73,73	0
87	MG	2	2083	1/1	0.63	0.41	98,98,98,98	0
87	MG	6	2104	1/1	0.63	0.31	74,74,74,74	0
87	MG	5	3980	1/1	0.63	0.39	77,77,77,77	0
87	MG	2	2037	1/1	0.63	0.29	77,77,77,77	0
87	MG	6	2041	1/1	0.64	0.32	76,76,76,76	0
87	MG	2	2068	1/1	0.64	0.35	86,86,86,86	0
86	OHX	5	3715	7/7	0.66	0.30	62,64,66,97	7
88	ZN	D7	101	1/1	0.66	0.17	159,159,159,159	0
87	MG	2	2051	1/1	0.67	0.53	80,80,80,80	0
86	OHX	5	3681	7/7	0.67	0.17	96,97,98,130	7
87	MG	6	2130	1/1	0.67	0.28	95,95,95,95	0
87	MG	2	2117	1/1	0.67	0.27	95,95,95,95	0
87	MG	5	3788	1/1	0.68	0.35	86,86,86,86	0
87	MG	2	2112	1/1	0.68	0.46	88,88,88,88	0
87	MG	2	2080	1/1	0.68	0.47	88,88,88,88	0
87	MG	1	3963	1/1	0.68	0.19	74,74,74,74	0
87	MG	5	4083	1/1	0.68	0.15	53,53,53,53	0
87	MG	1	4051	1/1	0.68	0.27	76,76,76,76	0
87	MG	6	2044	1/1	0.69	0.30	75,75,75,75	0
87	MG	6	2129	1/1	0.69	0.31	77,77,77,77	0
87	MG	6	2098	1/1	0.69	0.38	87,87,87,87	0
87	MG	2	2114	1/1	0.69	0.29	105,105,105,105	0
87	MG	5	4089	1/1	0.69	0.28	69,69,69,69	0
86	OHX	6	2006	7/7	0.69	0.26	87,87,88,112	7
86	OHX	6	2037	7/7	0.70	0.19	115,116,117,137	7
87	MG	2	2070	1/1	0.70	0.33	94,94,94,94	0
86	OHX	5	3724	7/7	0.70	0.15	181,181,182,194	7
87	MG	2	2053	1/1	0.70	0.29	84,84,84,84	0
86	OHX	6	2034	7/7	0.70	0.27	84,85,86,112	7
87	MG	5	3942	1/1	0.71	0.34	94,94,94,94	0
87	MG	6	2046	1/1	0.71	0.26	121,121,121,121	0
87	MG	4	225	1/1	0.71	0.25	50,50,50,50	0
87	MG	1	3964	1/1	0.71	0.28	44,44,44,44	0
86	OHX	2	2027	7/7	0.71	0.38	72,73,74,103	7
87	MG	2	2064	1/1	0.71	0.34	61,61,61,61	0
87	MG	2	2087	1/1	0.72	0.30	84,84,84,84	0
87	MG	2	2063	1/1	0.72	0.34	57,57,57,57	0
86	OHX	6	2029	7/7	0.72	0.20	125,126,128,147	7
87	MG	7	218	1/1	0.72	0.27	67,67,67,67	0
87	MG	7	221	1/1	0.72	0.18	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	3986	1/1	0.72	0.19	49,49,49,49	0
87	MG	2	2096	1/1	0.73	0.29	107,107,107,107	0
87	MG	2	2088	1/1	0.73	0.20	83,83,83,83	0
87	MG	5	3746	1/1	0.73	0.25	64,64,64,64	0
87	MG	1	3757	1/1	0.73	0.22	50,50,50,50	0
87	MG	2	2029	1/1	0.73	0.29	81,81,81,81	0
87	MG	5	4104	1/1	0.73	0.27	52,52,52,52	0
87	MG	6	2093	1/1	0.73	0.30	46,46,46,46	0
87	MG	5	3943	1/1	0.73	0.31	84,84,84,84	0
87	MG	5	3954	1/1	0.73	0.26	65,65,65,65	0
87	MG	1	3718	1/1	0.74	0.26	46,46,46,46	0
87	MG	2	2095	1/1	0.74	0.18	69,69,69,69	0
87	MG	2	2035	1/1	0.74	0.38	64,64,64,64	0
87	MG	2	2100	1/1	0.74	0.27	68,68,68,68	0
86	OHX	1	3658	7/7	0.74	0.27	93,93,94,127	7
86	OHX	1	3605	7/7	0.74	0.30	72,74,76,101	7
87	MG	5	3780	1/1	0.74	0.19	47,47,47,47	0
87	MG	1	4043	1/1	0.75	0.25	54,54,54,54	0
87	MG	S2	301	1/1	0.75	0.35	68,68,68,68	0
87	MG	1	3721	1/1	0.75	0.29	49,49,49,49	0
87	MG	6	2048	1/1	0.75	0.26	91,91,91,91	0
87	MG	5	3996	1/1	0.75	0.23	50,50,50,50	0
87	MG	6	2064	1/1	0.75	0.28	68,68,68,68	0
87	MG	6	2077	1/1	0.75	0.36	75,75,75,75	0
87	MG	1	4000	1/1	0.75	0.16	39,39,39,39	0
87	MG	6	2094	1/1	0.75	0.32	98,98,98,98	0
87	MG	2	2042	1/1	0.75	0.40	71,71,71,71	0
87	MG	5	3868	1/1	0.75	0.31	41,41,41,41	0
87	MG	6	2040	1/1	0.75	0.29	54,54,54,54	0
87	MG	6	2060	1/1	0.76	0.42	86,86,86,86	0
87	MG	5	3950	1/1	0.76	0.26	61,61,61,61	0
86	OHX	1	3634	7/7	0.76	0.27	72,73,74,107	7
87	MG	5	3957	1/1	0.76	0.19	65,65,65,65	0
87	MG	4	227	1/1	0.76	0.22	56,56,56,56	0
87	MG	2	2091	1/1	0.76	0.32	64,64,64,64	0
87	MG	5	3753	1/1	0.76	0.20	65,65,65,65	0
86	OHX	2	2022	7/7	0.76	0.10	250,250,250,254	7
87	MG	1	4046	1/1	0.76	0.27	94,94,94,94	0
87	MG	1	4049	1/1	0.76	0.28	79,79,79,79	0
87	MG	5	3860	1/1	0.76	0.24	40,40,40,40	0
86	OHX	1	3688	7/7	0.76	0.13	158,158,159,172	7
87	MG	5	3934	1/1	0.76	0.24	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	8	219	1/1	0.76	0.22	62,62,62,62	0
87	MG	1	3918	1/1	0.76	0.23	58,58,58,58	0
86	OHX	1	3685	7/7	0.77	0.20	106,107,109,129	7
87	MG	6	2099	1/1	0.77	0.24	91,91,91,91	0
86	OHX	5	3720	7/7	0.77	0.24	75,76,77,111	7
87	MG	1	3750	1/1	0.77	0.22	46,46,46,46	0
86	OHX	5	3707	7/7	0.77	0.35	63,64,66,96	7
87	MG	6	2125	1/1	0.77	0.17	69,69,69,69	0
87	MG	5	3871	1/1	0.77	0.30	40,40,40,40	0
87	MG	1	3784	1/1	0.77	0.26	54,54,54,54	0
86	OHX	m4	201	7/7	0.77	0.14	124,124,124,140	7
87	MG	2	2058	1/1	0.77	0.40	64,64,64,64	0
87	MG	5	3739	1/1	0.77	0.23	71,71,71,71	0
87	MG	1	3936	1/1	0.77	0.33	56,56,56,56	0
86	OHX	2	2019	7/7	0.78	0.14	112,113,113,139	7
86	OHX	5	3685	7/7	0.78	0.29	66,67,68,108	7
86	OHX	5	3722	7/7	0.78	0.25	69,69,70,99	7
87	MG	5	3787	1/1	0.78	0.29	59,59,59,59	0
86	OHX	5	3723	7/7	0.78	0.28	95,95,95,117	7
87	MG	6	2054	1/1	0.78	0.35	69,69,69,69	0
87	MG	6	2056	1/1	0.78	0.29	64,64,64,64	0
86	OHX	5	3703	7/7	0.78	0.37	50,52,53,85	7
87	MG	1	3880	1/1	0.78	0.17	51,51,51,51	0
87	MG	2	2050	1/1	0.78	0.28	67,67,67,67	0
87	MG	6	2091	1/1	0.78	0.40	60,60,60,60	0
86	OHX	1	3711	7/7	0.78	0.21	80,80,82,109	7
87	MG	5	3743	1/1	0.78	0.32	74,74,74,74	0
88	ZN	q2	501	1/1	0.78	0.25	107,107,107,107	0
87	MG	2	2119	1/1	0.79	0.22	93,93,93,93	0
87	MG	5	3887	1/1	0.79	0.34	37,37,37,37	0
87	MG	5	3910	1/1	0.79	0.26	41,41,41,41	0
87	MG	2	2059	1/1	0.79	0.28	63,63,63,63	0
87	MG	2	2097	1/1	0.79	0.37	65,65,65,65	0
86	OHX	5	3709	7/7	0.79	0.45	45,45,47,82	7
86	OHX	1	3644	7/7	0.79	0.15	140,141,142,164	7
87	MG	2	2105	1/1	0.79	0.34	57,57,57,57	0
86	OHX	5	3716	7/7	0.79	0.27	61,64,65,102	7
87	MG	5	3963	1/1	0.79	0.29	55,55,55,55	0
87	MG	5	3734	1/1	0.79	0.25	53,53,53,53	0
86	OHX	5	3689	7/7	0.79	0.27	80,80,81,104	7
87	MG	1	3795	1/1	0.79	0.35	77,77,77,77	0
87	MG	5	4018	1/1	0.79	0.32	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	1	3835	1/1	0.79	0.28	58,58,58,58	0
87	MG	5	4044	1/1	0.79	0.12	42,42,42,42	0
87	MG	1	3846	1/1	0.79	0.19	53,53,53,53	0
87	MG	6	2084	1/1	0.79	0.34	79,79,79,79	0
87	MG	5	4093	1/1	0.79	0.31	78,78,78,78	0
86	OHX	5	3646	7/7	0.79	0.29	77,78,79,104	7
87	MG	1	4059	1/1	0.79	0.28	69,69,69,69	0
87	MG	3	215	1/1	0.79	0.20	62,62,62,62	0
87	MG	2	2056	1/1	0.79	0.31	68,68,68,68	0
87	MG	5	3864	1/1	0.79	0.26	60,60,60,60	0
86	OHX	1	3709	7/7	0.79	0.16	79,80,81,112	7
87	MG	5	3875	1/1	0.80	0.24	48,48,48,48	0
86	OHX	6	1989	7/7	0.80	0.22	72,73,75,105	7
87	MG	2	2098	1/1	0.80	0.18	107,107,107,107	0
87	MG	L7	303	1/1	0.80	0.12	48,48,48,48	0
87	MG	6	2109	1/1	0.80	0.18	89,89,89,89	0
87	MG	2	2085	1/1	0.80	0.29	74,74,74,74	0
87	MG	5	3946	1/1	0.80	0.20	50,50,50,50	0
87	MG	M7	203	1/1	0.80	0.41	69,69,69,69	0
86	OHX	5	3706	7/7	0.80	0.28	57,58,59,88	7
86	OHX	5	3682	7/7	0.80	0.23	77,78,79,115	7
87	MG	1	3729	1/1	0.80	0.40	78,78,78,78	0
87	MG	2	2041	1/1	0.80	0.30	74,74,74,74	0
87	MG	5	3985	1/1	0.80	0.22	50,50,50,50	0
86	OHX	1	3693	7/7	0.80	0.43	55,57,58,91	7
87	MG	1	3763	1/1	0.80	0.40	60,60,60,60	0
87	MG	2	2094	1/1	0.80	0.26	74,74,74,74	0
86	OHX	3	208	7/7	0.80	0.23	96,97,97,118	7
87	MG	1	3797	1/1	0.80	0.27	52,52,52,52	0
87	MG	5	3783	1/1	0.80	0.27	45,45,45,45	0
87	MG	1	3799	1/1	0.80	0.30	48,48,48,48	0
87	MG	5	4091	1/1	0.80	0.30	52,52,52,52	0
87	MG	1	3821	1/1	0.80	0.23	38,38,38,38	0
87	MG	5	4094	1/1	0.80	0.32	70,70,70,70	0
87	MG	5	4096	1/1	0.80	0.17	73,73,73,73	0
87	MG	1	3829	1/1	0.80	0.28	50,50,50,50	0
87	MG	5	3814	1/1	0.80	0.13	42,42,42,42	0
86	OHX	5	3695	7/7	0.80	0.31	73,74,75,102	7
87	MG	1	4063	1/1	0.80	0.27	34,34,34,34	0
87	MG	8	222	1/1	0.80	0.23	61,61,61,61	0
87	MG	6	2096	1/1	0.80	0.22	61,61,61,61	0
87	MG	2	2118	1/1	0.80	0.23	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	1	3801	1/1	0.81	0.28	74,74,74,74	0
86	OHX	5	3702	7/7	0.81	0.22	79,80,80,110	7
87	MG	5	3998	1/1	0.81	0.32	71,71,71,71	0
87	MG	5	4000	1/1	0.81	0.19	61,61,61,61	0
87	MG	5	4009	1/1	0.81	0.37	72,72,72,72	0
87	MG	6	2124	1/1	0.81	0.41	84,84,84,84	0
87	MG	5	4020	1/1	0.81	0.17	47,47,47,47	0
87	MG	6	2072	1/1	0.81	0.32	69,69,69,69	0
87	MG	5	4030	1/1	0.81	0.37	81,81,81,81	0
87	MG	6	2073	1/1	0.81	0.40	94,94,94,94	0
87	MG	1	3727	1/1	0.81	0.22	50,50,50,50	0
86	OHX	2	2017	7/7	0.81	0.13	145,145,146,164	7
87	MG	c6	201	1/1	0.81	0.32	91,91,91,91	0
87	MG	6	2085	1/1	0.81	0.32	66,66,66,66	0
87	MG	6	2086	1/1	0.81	0.42	67,67,67,67	0
87	MG	2	2116	1/1	0.81	0.16	64,64,64,64	0
86	OHX	2	1973	7/7	0.81	0.26	102,102,104,125	7
87	MG	2	2045	1/1	0.81	0.36	50,50,50,50	0
87	MG	2	2048	1/1	0.81	0.33	57,57,57,57	0
86	OHX	6	2024	7/7	0.81	0.21	90,90,92,119	7
87	MG	1	3956	1/1	0.81	0.31	69,69,69,69	0
87	MG	2	2079	1/1	0.81	0.28	58,58,58,58	0
86	OHX	5	3698	7/7	0.81	0.32	66,66,68,99	7
86	OHX	7	211	7/7	0.82	0.17	79,80,80,112	7
86	OHX	8	213	7/7	0.82	0.20	80,82,83,117	7
87	MG	5	3981	1/1	0.82	0.27	84,84,84,84	0
87	MG	1	3857	1/1	0.82	0.41	47,47,47,47	0
86	OHX	5	3684	7/7	0.82	0.21	73,74,76,109	7
87	MG	5	3993	1/1	0.82	0.20	88,88,88,88	0
87	MG	1	3909	1/1	0.82	0.14	71,71,71,71	0
87	MG	1	3912	1/1	0.82	0.26	63,63,63,63	0
86	OHX	5	3708	7/7	0.82	0.15	86,87,88,116	7
87	MG	5	4003	1/1	0.82	0.26	43,43,43,43	0
87	MG	5	4008	1/1	0.82	0.23	52,52,52,52	0
87	MG	1	3922	1/1	0.82	0.31	63,63,63,63	0
87	MG	5	3798	1/1	0.82	0.27	71,71,71,71	0
87	MG	1	3927	1/1	0.82	0.14	50,50,50,50	0
87	MG	5	3823	1/1	0.82	0.28	54,54,54,54	0
86	OHX	1	3704	7/7	0.82	0.22	68,69,70,101	7
87	MG	2	2081	1/1	0.82	0.33	60,60,60,60	0
87	MG	5	4075	1/1	0.82	0.39	42,42,42,42	0
87	MG	2	2057	1/1	0.82	0.24	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	2004	7/7	0.82	0.16	96,97,99,128	7
87	MG	2	2086	1/1	0.82	0.26	70,70,70,70	0
87	MG	1	3981	1/1	0.82	0.24	66,66,66,66	0
86	OHX	5	3622	7/7	0.82	0.22	73,73,74,97	7
87	MG	5	3931	1/1	0.82	0.21	44,44,44,44	0
86	OHX	2	1940	7/7	0.82	0.26	94,96,98,118	7
86	OHX	5	3661	7/7	0.82	0.21	92,93,94,128	7
86	OHX	2	2026	7/7	0.82	0.19	104,105,106,127	7
87	MG	2	2047	1/1	0.82	0.26	61,61,61,61	0
87	MG	6	2068	1/1	0.82	0.20	83,83,83,83	0
87	MG	6	2069	1/1	0.82	0.34	72,72,72,72	0
86	OHX	1	3703	7/7	0.82	0.30	55,57,58,89	7
86	OHX	1	3682	7/7	0.83	0.21	86,87,88,115	7
87	MG	5	3925	1/1	0.83	0.24	44,44,44,44	0
87	MG	1	3808	1/1	0.83	0.34	35,35,35,35	0
87	MG	2	2040	1/1	0.83	0.28	80,80,80,80	0
86	OHX	5	3712	7/7	0.83	0.20	94,95,95,113	7
86	OHX	6	2018	7/7	0.83	0.23	75,75,76,108	7
87	MG	3	214	1/1	0.83	0.36	75,75,75,75	0
87	MG	6	2101	1/1	0.83	0.21	72,72,72,72	0
87	MG	1	3845	1/1	0.83	0.29	73,73,73,73	0
87	MG	6	2107	1/1	0.83	0.21	61,61,61,61	0
87	MG	4	218	1/1	0.83	0.31	53,53,53,53	0
87	MG	5	3976	1/1	0.83	0.24	57,57,57,57	0
87	MG	4	223	1/1	0.83	0.33	31,31,31,31	0
86	OHX	1	3705	7/7	0.83	0.21	61,62,64,96	7
87	MG	5	3984	1/1	0.83	0.31	50,50,50,50	0
86	OHX	1	3641	7/7	0.83	0.23	77,77,78,103	7
87	MG	1	3868	1/1	0.83	0.39	52,52,52,52	0
86	OHX	6	2030	7/7	0.83	0.25	68,69,70,102	7
87	MG	2	2049	1/1	0.83	0.38	66,66,66,66	0
87	MG	6	2038	1/1	0.83	0.36	51,51,51,51	0
87	MG	5	3729	1/1	0.83	0.22	41,41,41,41	0
86	OHX	6	2032	7/7	0.83	0.22	76,77,78,101	7
87	MG	1	3916	1/1	0.83	0.23	42,42,42,42	0
86	OHX	5	3696	7/7	0.83	0.38	68,69,69,96	7
87	MG	5	4012	1/1	0.83	0.22	40,40,40,40	0
86	OHX	7	209	7/7	0.83	0.22	77,78,81,100	7
87	MG	5	3748	1/1	0.83	0.15	47,47,47,47	0
86	OHX	1	3627	7/7	0.83	0.17	94,94,96,126	7
86	OHX	8	212	7/7	0.83	0.23	72,73,74,109	7
86	OHX	6	2035	7/7	0.83	0.14	113,114,115,138	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	4045	1/1	0.83	0.31	29,29,29,29	0
87	MG	5	4059	1/1	0.83	0.20	47,47,47,47	1
87	MG	5	4069	1/1	0.83	0.32	70,70,70,70	0
86	OHX	m0	302	7/7	0.83	0.29	58,59,60,95	7
86	OHX	2	2003	7/7	0.83	0.18	81,83,83,114	7
87	MG	5	4088	1/1	0.83	0.37	65,65,65,65	0
86	OHX	4	217	7/7	0.83	0.25	61,63,64,98	7
87	MG	1	3977	1/1	0.83	0.27	79,79,79,79	0
87	MG	5	3806	1/1	0.83	0.26	60,60,60,60	0
86	OHX	1	3700	7/7	0.83	0.34	67,68,69,95	7
87	MG	1	3767	1/1	0.83	0.35	59,59,59,59	0
87	MG	1	3778	1/1	0.83	0.21	34,34,34,34	0
87	MG	6	2082	1/1	0.83	0.29	58,58,58,58	0
87	MG	2	2067	1/1	0.83	0.22	71,71,71,71	0
87	MG	2	2099	1/1	0.83	0.26	74,74,74,74	0
87	MG	2	2033	1/1	0.83	0.34	63,63,63,63	0
86	OHX	1	3672	7/7	0.83	0.23	74,74,75,99	7
87	MG	5	3889	1/1	0.83	0.29	45,45,45,45	0
87	MG	1	3832	1/1	0.84	0.31	35,35,35,35	0
87	MG	5	3971	1/1	0.84	0.23	65,65,65,65	0
87	MG	5	3973	1/1	0.84	0.17	48,48,48,48	0
86	OHX	6	1958	7/7	0.84	0.23	67,68,70,109	7
87	MG	5	3977	1/1	0.84	0.31	79,79,79,79	0
86	OHX	5	3711	7/7	0.84	0.20	67,70,71,97	7
86	OHX	1	3659	7/7	0.84	0.13	131,131,133,156	7
86	OHX	1	3667	7/7	0.84	0.32	57,58,60,89	7
87	MG	1	4047	1/1	0.84	0.29	59,59,59,59	0
86	OHX	1	3614	7/7	0.84	0.24	66,66,69,99	7
87	MG	5	3758	1/1	0.84	0.24	77,77,77,77	0
87	MG	1	3878	1/1	0.84	0.25	39,39,39,39	0
87	MG	2	2106	1/1	0.84	0.22	87,87,87,87	0
87	MG	1	3904	1/1	0.84	0.41	67,67,67,67	0
87	MG	1	3908	1/1	0.84	0.18	42,42,42,42	0
87	MG	1	3758	1/1	0.84	0.19	47,47,47,47	0
86	OHX	6	2007	7/7	0.84	0.27	85,86,87,119	7
87	MG	3	216	1/1	0.84	0.34	75,75,75,75	0
87	MG	5	3812	1/1	0.84	0.15	51,51,51,51	0
86	OHX	5	3721	7/7	0.84	0.16	111,113,114,141	7
87	MG	5	3818	1/1	0.84	0.30	39,39,39,39	0
87	MG	1	3775	1/1	0.84	0.20	44,44,44,44	0
87	MG	5	4035	1/1	0.84	0.15	42,42,42,42	0
86	OHX	6	2017	7/7	0.84	0.21	96,96,98,122	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	S8	301	7/7	0.84	0.11	113,114,115,138	7
86	OHX	5	3639	7/7	0.84	0.19	84,84,85,116	7
87	MG	5	4061	1/1	0.84	0.25	55,55,55,55	0
86	OHX	5	3644	7/7	0.84	0.23	53,57,59,103	7
86	OHX	6	2020	7/7	0.84	0.27	58,58,60,94	7
87	MG	5	3876	1/1	0.84	0.24	37,37,37,37	0
86	OHX	2	1977	7/7	0.84	0.21	85,88,88,112	7
87	MG	6	2039	1/1	0.84	0.16	60,60,60,60	0
87	MG	6	2114	1/1	0.84	0.18	76,76,76,76	0
86	OHX	6	2025	7/7	0.84	0.18	94,94,95,122	7
87	MG	1	3973	1/1	0.84	0.21	57,57,57,57	0
87	MG	5	3933	1/1	0.84	0.31	60,60,60,60	0
87	MG	5	4102	1/1	0.84	0.22	41,41,41,41	0
87	MG	1	3816	1/1	0.84	0.32	39,39,39,39	0
87	MG	6	2126	1/1	0.84	0.26	63,63,63,63	0
87	MG	1	3713	1/1	0.84	0.30	49,49,49,49	0
87	MG	1	3982	1/1	0.84	0.23	56,56,56,56	0
87	MG	6	2053	1/1	0.84	0.23	61,61,61,61	0
87	MG	8	223	1/1	0.84	0.24	55,55,55,55	0
87	MG	6	2133	1/1	0.84	0.18	58,58,58,58	0
86	OHX	l9	201	7/7	0.84	0.21	70,70,71,107	7
89	UAM	6	2134	30/30	0.84	0.15	75,75,75,75	0
87	MG	1	3766	1/1	0.85	0.26	43,43,43,43	0
86	OHX	2	2014	7/7	0.85	0.23	62,65,67,103	7
87	MG	2	2107	1/1	0.85	0.37	71,71,71,71	0
87	MG	1	3923	1/1	0.85	0.19	69,69,69,69	0
87	MG	6	2115	1/1	0.85	0.15	56,56,56,56	0
87	MG	6	2117	1/1	0.85	0.35	69,69,69,69	0
87	MG	4	226	1/1	0.85	0.20	57,57,57,57	0
87	MG	5	3964	1/1	0.85	0.42	49,49,49,49	0
86	OHX	6	1994	7/7	0.85	0.14	127,128,128,142	7
87	MG	4	232	1/1	0.85	0.28	59,59,59,59	0
86	OHX	5	3597	7/7	0.85	0.17	97,97,99,124	7
86	OHX	1	3698	7/7	0.85	0.09	168,168,168,180	7
87	MG	1	3947	1/1	0.85	0.31	51,51,51,51	0
87	MG	O7	102	1/1	0.85	0.40	61,61,61,61	0
87	MG	1	3951	1/1	0.85	0.10	51,51,51,51	0
86	OHX	1	3665	7/7	0.85	0.25	59,60,61,105	7
86	OHX	1	3596	7/7	0.85	0.15	84,84,87,118	7
86	OHX	2	1978	7/7	0.85	0.11	179,179,180,188	7
87	MG	1	3967	1/1	0.85	0.30	50,50,50,50	0
87	MG	1	3969	1/1	0.85	0.25	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	3744	1/1	0.85	0.32	43,43,43,43	0
86	OHX	1	3677	7/7	0.85	0.23	68,69,69,96	7
86	OHX	5	3665	7/7	0.85	0.26	69,69,71,102	7
87	MG	2	2090	1/1	0.85	0.25	60,60,60,60	0
87	MG	D3	201	1/1	0.85	0.16	64,64,64,64	0
87	MG	5	3777	1/1	0.85	0.09	32,32,32,32	0
86	OHX	2	2012	7/7	0.85	0.13	128,128,129,143	7
87	MG	2	2066	1/1	0.85	0.24	64,64,64,64	0
87	MG	6	2065	1/1	0.85	0.38	61,61,61,61	0
87	MG	5	4032	1/1	0.85	0.16	40,40,40,40	0
87	MG	1	3997	1/1	0.85	0.28	58,58,58,58	0
87	MG	5	4039	1/1	0.85	0.13	45,45,45,45	0
86	OHX	1	3655	7/7	0.85	0.21	87,87,87,115	7
87	MG	6	2071	1/1	0.85	0.29	52,52,52,52	0
87	MG	1	4031	1/1	0.85	0.23	96,96,96,96	0
86	OHX	1	3686	7/7	0.85	0.26	74,75,76,104	7
87	MG	6	2074	1/1	0.85	0.27	53,53,53,53	0
87	MG	1	4039	1/1	0.85	0.26	55,55,55,55	0
86	OHX	6	2027	7/7	0.85	0.19	82,82,85,113	7
87	MG	5	3852	1/1	0.85	0.21	56,56,56,56	0
86	OHX	1	3622	7/7	0.85	0.17	90,91,92,125	7
87	MG	1	3730	1/1	0.85	0.28	42,42,42,42	0
87	MG	5	3867	1/1	0.85	0.31	55,55,55,55	0
86	OHX	L4	401	7/7	0.85	0.13	74,74,76,102	7
87	MG	6	2088	1/1	0.85	0.34	45,45,45,45	0
87	MG	1	3888	1/1	0.85	0.35	61,61,61,61	0
87	MG	1	3889	1/1	0.85	0.23	45,45,45,45	0
87	MG	5	4107	1/1	0.85	0.18	46,46,46,46	0
87	MG	1	4058	1/1	0.85	0.17	38,38,38,38	0
87	MG	1	3755	1/1	0.85	0.15	53,53,53,53	0
87	MG	5	3906	1/1	0.85	0.31	35,35,35,35	0
86	OHX	M9	201	7/7	0.85	0.12	98,98,99,123	7
87	MG	3	211	1/1	0.85	0.31	78,78,78,78	0
87	MG	n6	201	1/1	0.85	0.37	69,69,69,69	0
86	OHX	1	3691	7/7	0.85	0.26	60,61,62,98	7
87	MG	2	2078	1/1	0.85	0.28	68,68,68,68	0
87	MG	6	2102	1/1	0.85	0.20	61,61,61,61	0
86	OHX	6	1988	7/7	0.86	0.18	96,97,97,128	7
86	OHX	5	3718	7/7	0.86	0.21	76,78,79,104	7
87	MG	1	4009	1/1	0.86	0.26	65,65,65,65	0
87	MG	5	3891	1/1	0.86	0.33	37,37,37,37	0
87	MG	5	3898	1/1	0.86	0.19	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	3719	7/7	0.86	0.28	57,57,58,94	7
86	OHX	5	3625	7/7	0.86	0.14	102,102,104,128	7
87	MG	5	3921	1/1	0.86	0.26	58,58,58,58	0
87	MG	1	4036	1/1	0.86	0.37	54,54,54,54	0
86	OHX	5	3632	7/7	0.86	0.13	146,147,148,168	7
86	OHX	1	3656	7/7	0.86	0.16	83,84,85,110	7
86	OHX	2	2024	7/7	0.86	0.14	116,116,118,142	7
86	OHX	6	1997	7/7	0.86	0.16	103,104,105,124	7
86	OHX	5	3658	7/7	0.86	0.19	56,57,60,98	7
87	MG	1	3852	1/1	0.86	0.23	38,38,38,38	0
86	OHX	2	1989	7/7	0.86	0.20	94,95,97,121	7
87	MG	5	3951	1/1	0.86	0.26	57,57,57,57	0
86	OHX	2	1970	7/7	0.86	0.15	132,137,138,157	7
86	OHX	1	3702	7/7	0.86	0.16	94,95,96,121	7
86	OHX	1	3666	7/7	0.86	0.26	67,69,72,97	7
87	MG	6	2106	1/1	0.86	0.29	48,48,48,48	0
87	MG	1	4064	1/1	0.86	0.12	66,66,66,66	0
87	MG	1	3883	1/1	0.86	0.38	48,48,48,48	0
87	MG	1	3886	1/1	0.86	0.39	43,43,43,43	0
86	OHX	1	3628	7/7	0.86	0.18	93,95,97,122	7
86	OHX	1	3671	7/7	0.86	0.24	69,69,70,100	7
86	OHX	2	2018	7/7	0.86	0.14	116,117,118,136	7
87	MG	6	2121	1/1	0.86	0.12	49,49,49,49	0
87	MG	6	2122	1/1	0.86	0.23	70,70,70,70	0
87	MG	1	3717	1/1	0.86	0.15	45,45,45,45	0
86	OHX	1	3710	7/7	0.86	0.16	93,94,94,124	7
86	OHX	6	2026	7/7	0.86	0.29	64,64,66,98	7
86	OHX	S9	201	7/7	0.86	0.26	85,86,87,114	7
86	OHX	5	3700	7/7	0.86	0.27	42,43,45,80	7
87	MG	L2	301	1/1	0.86	0.24	37,37,37,37	0
87	MG	2	2039	1/1	0.86	0.41	64,64,64,64	0
87	MG	6	2135	1/1	0.86	0.24	61,61,61,61	0
87	MG	1	3733	1/1	0.86	0.22	51,51,51,51	0
87	MG	5	4014	1/1	0.86	0.24	47,47,47,47	0
87	MG	d6	102	1/1	0.86	0.37	66,66,66,66	0
87	MG	1	3747	1/1	0.86	0.20	50,50,50,50	0
87	MG	5	3731	1/1	0.86	0.15	49,49,49,49	0
87	MG	1	3930	1/1	0.86	0.28	50,50,50,50	0
87	MG	5	4031	1/1	0.86	0.45	60,60,60,60	0
87	MG	Q2	503	1/1	0.86	0.27	68,68,68,68	0
87	MG	1	3931	1/1	0.86	0.25	51,51,51,51	0
87	MG	5	4038	1/1	0.86	0.17	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	3	205	7/7	0.86	0.15	88,89,90,118	7
87	MG	5	4041	1/1	0.86	0.19	66,66,66,66	0
87	MG	5	4042	1/1	0.86	0.06	39,39,39,39	0
86	OHX	2	1968	7/7	0.86	0.15	113,114,115,142	7
87	MG	1	3941	1/1	0.86	0.16	44,44,44,44	0
87	MG	5	4049	1/1	0.86	0.21	59,59,59,59	0
87	MG	6	2043	1/1	0.86	0.26	47,47,47,47	0
87	MG	1	3946	1/1	0.86	0.12	32,32,32,32	0
87	MG	5	4067	1/1	0.86	0.21	68,68,68,68	0
86	OHX	4	215	7/7	0.86	0.19	87,88,89,114	7
87	MG	5	4073	1/1	0.86	0.10	40,40,40,40	0
87	MG	2	2044	1/1	0.86	0.30	47,47,47,47	0
86	OHX	1	3646	7/7	0.86	0.19	69,71,71,109	7
87	MG	5	3786	1/1	0.86	0.13	34,34,34,34	0
87	MG	1	3962	1/1	0.86	0.19	59,59,59,59	0
86	OHX	1	3651	7/7	0.86	0.20	62,63,67,100	7
87	MG	6	2057	1/1	0.86	0.29	48,48,48,48	0
87	MG	6	2058	1/1	0.86	0.26	61,61,61,61	0
87	MG	5	4095	1/1	0.86	0.30	77,77,77,77	0
86	OHX	2	2013	7/7	0.86	0.12	120,120,121,141	7
87	MG	5	3808	1/1	0.86	0.12	41,41,41,41	0
86	OHX	5	3710	7/7	0.86	0.15	106,106,107,137	7
87	MG	1	3776	1/1	0.86	0.22	54,54,54,54	0
87	MG	6	2067	1/1	0.86	0.35	65,65,65,65	0
86	OHX	c3	201	7/7	0.86	0.14	102,103,104,130	7
86	OHX	c5	201	7/7	0.86	0.11	134,134,135,148	7
87	MG	6	2070	1/1	0.86	0.27	44,44,44,44	0
87	MG	1	3788	1/1	0.86	0.25	54,54,54,54	0
87	MG	m7	202	1/1	0.86	0.25	45,45,45,45	0
87	MG	2	2052	1/1	0.86	0.41	66,66,66,66	0
87	MG	n8	202	1/1	0.86	0.16	51,51,51,51	0
87	MG	o7	503	1/1	0.86	0.34	78,78,78,78	0
87	MG	q1	101	1/1	0.86	0.25	47,47,47,47	0
86	OHX	1	3690	7/7	0.86	0.20	72,73,73,110	7
88	ZN	Q2	501	1/1	0.86	0.20	107,107,107,107	0
87	MG	2	2054	1/1	0.86	0.30	53,53,53,53	0
87	MG	6	2076	1/1	0.86	0.29	42,42,42,42	0
87	MG	1	3842	1/1	0.87	0.25	43,43,43,43	0
86	OHX	6	2015	7/7	0.87	0.12	126,127,128,140	7
86	OHX	1	3668	7/7	0.87	0.13	84,84,85,110	7
87	MG	1	3848	1/1	0.87	0.26	49,49,49,49	0
87	MG	1	3850	1/1	0.87	0.35	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	2	2084	1/1	0.87	0.26	69,69,69,69	0
86	OHX	1	3619	7/7	0.87	0.22	70,70,72,99	7
87	MG	1	4016	1/1	0.87	0.23	32,32,32,32	0
87	MG	1	4023	1/1	0.87	0.11	59,59,59,59	0
87	MG	1	4025	1/1	0.87	0.13	42,42,42,42	0
86	OHX	C5	201	7/7	0.87	0.11	129,129,130,150	7
87	MG	5	4001	1/1	0.87	0.18	49,49,49,49	0
87	MG	1	3875	1/1	0.87	0.31	31,31,31,31	0
86	OHX	1	3674	7/7	0.87	0.10	114,116,116,146	7
86	OHX	6	1928	7/7	0.87	0.16	138,141,142,159	7
87	MG	5	3784	1/1	0.87	0.26	39,39,39,39	0
87	MG	1	4041	1/1	0.87	0.24	58,58,58,58	0
87	MG	1	3881	1/1	0.87	0.36	59,59,59,59	0
86	OHX	5	3651	7/7	0.87	0.27	47,47,49,84	7
87	MG	1	3731	1/1	0.87	0.11	39,39,39,39	0
87	MG	1	3732	1/1	0.87	0.34	50,50,50,50	0
86	OHX	2	1999	7/7	0.87	0.19	75,75,76,103	7
87	MG	6	2083	1/1	0.87	0.26	46,46,46,46	0
86	OHX	6	1962	7/7	0.87	0.22	77,78,80,102	7
87	MG	2	2092	1/1	0.87	0.27	61,61,61,61	0
86	OHX	5	3662	7/7	0.87	0.23	69,70,71,107	7
86	OHX	6	2028	7/7	0.87	0.22	74,76,76,101	7
87	MG	5	3838	1/1	0.87	0.36	42,42,42,42	0
86	OHX	5	3667	7/7	0.87	0.13	134,134,135,149	7
87	MG	3	209	1/1	0.87	0.16	89,89,89,89	0
87	MG	1	3759	1/1	0.87	0.34	48,48,48,48	0
86	OHX	6	1971	7/7	0.87	0.22	91,92,93,114	7
86	OHX	2	1982	7/7	0.87	0.18	85,85,87,112	7
87	MG	5	3869	1/1	0.87	0.14	47,47,47,47	0
87	MG	5	4068	1/1	0.87	0.26	61,61,61,61	0
87	MG	1	3924	1/1	0.87	0.18	61,61,61,61	0
87	MG	5	4072	1/1	0.87	0.25	67,67,67,67	0
86	OHX	1	3632	7/7	0.87	0.16	105,105,106,124	7
86	OHX	1	3606	7/7	0.87	0.33	39,40,42,80	7
87	MG	2	2062	1/1	0.87	0.37	56,56,56,56	0
86	OHX	1	3687	7/7	0.87	0.20	72,72,74,100	7
86	OHX	5	3694	7/7	0.87	0.25	59,60,60,88	7
87	MG	4	228	1/1	0.87	0.12	41,41,41,41	0
86	OHX	2	2006	7/7	0.87	0.13	114,116,116,135	7
87	MG	6	2111	1/1	0.87	0.10	54,54,54,54	0
87	MG	6	2113	1/1	0.87	0.16	75,75,75,75	0
87	MG	5	3922	1/1	0.87	0.22	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	4100	1/1	0.87	0.17	41,41,41,41	0
87	MG	1	3943	1/1	0.87	0.21	78,78,78,78	0
87	MG	L7	301	1/1	0.87	0.11	47,47,47,47	0
86	OHX	s4	301	7/7	0.87	0.18	85,86,87,117	7
86	OHX	s8	301	7/7	0.87	0.13	105,105,106,130	7
86	OHX	1	3642	7/7	0.87	0.27	50,50,53,86	7
87	MG	M9	202	1/1	0.87	0.29	79,79,79,79	0
86	OHX	1	3616	7/7	0.87	0.28	58,58,61,88	7
87	MG	1	3961	1/1	0.87	0.11	63,63,63,63	0
86	OHX	sR	401	7/7	0.87	0.13	136,137,137,158	7
87	MG	2	2036	1/1	0.87	0.20	82,82,82,82	0
86	OHX	5	3704	7/7	0.87	0.10	151,151,151,167	7
87	MG	5	3958	1/1	0.87	0.18	48,48,48,48	0
87	MG	q0	202	1/1	0.87	0.15	53,53,53,53	0
87	MG	5	3961	1/1	0.87	0.29	40,40,40,40	0
86	OHX	5	3571	7/7	0.87	0.19	71,73,75,105	7
87	MG	1	3831	1/1	0.87	0.29	51,51,51,51	0
86	OHX	6	2013	7/7	0.87	0.12	163,163,164,174	7
86	OHX	5	3618	7/7	0.87	0.24	68,68,71,92	7
86	OHX	6	2022	7/7	0.88	0.21	54,55,58,96	7
86	OHX	1	3696	7/7	0.88	0.23	45,47,49,83	7
86	OHX	5	3650	7/7	0.88	0.27	44,46,47,79	7
86	OHX	1	3697	7/7	0.88	0.17	75,76,77,104	7
86	OHX	5	3654	7/7	0.88	0.17	83,84,84,117	7
86	OHX	6	1952	7/7	0.88	0.13	159,160,161,172	7
86	OHX	1	3618	7/7	0.88	0.20	74,76,78,102	7
86	OHX	6	1960	7/7	0.88	0.20	66,68,71,107	7
86	OHX	2	1958	7/7	0.88	0.15	97,98,99,129	7
86	OHX	1	3673	7/7	0.88	0.18	97,98,101,124	7
87	MG	N8	201	1/1	0.88	0.08	33,33,33,33	0
86	OHX	5	3668	7/7	0.88	0.17	101,102,103,131	7
86	OHX	5	3672	7/7	0.88	0.30	66,66,67,96	7
87	MG	6	2136	1/1	0.88	0.19	76,76,76,76	0
86	OHX	5	3678	7/7	0.88	0.17	71,71,74,106	7
87	MG	2	2065	1/1	0.88	0.25	77,77,77,77	0
86	OHX	6	2031	7/7	0.88	0.19	81,82,83,108	7
86	OHX	8	216	7/7	0.88	0.15	84,85,86,112	7
86	OHX	l5	302	7/7	0.88	0.13	101,102,102,130	7
87	MG	5	3736	1/1	0.88	0.18	39,39,39,39	0
86	OHX	6	1974	7/7	0.88	0.19	67,70,73,106	7
87	MG	2	2071	1/1	0.88	0.17	60,60,60,60	0
86	OHX	6	1984	7/7	0.88	0.17	100,102,102,129	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	1986	7/7	0.88	0.19	88,89,91,108	7
87	MG	5	4005	1/1	0.88	0.16	43,43,43,43	0
87	MG	1	3988	1/1	0.88	0.15	39,39,39,39	0
87	MG	1	3851	1/1	0.88	0.29	57,57,57,57	0
87	MG	5	4010	1/1	0.88	0.23	40,40,40,40	0
86	OHX	1	3652	7/7	0.88	0.19	80,81,82,112	7
87	MG	1	3853	1/1	0.88	0.35	35,35,35,35	0
87	MG	1	3855	1/1	0.88	0.23	47,47,47,47	0
87	MG	1	4012	1/1	0.88	0.27	48,48,48,48	0
87	MG	1	4015	1/1	0.88	0.12	66,66,66,66	0
87	MG	6	2066	1/1	0.88	0.20	51,51,51,51	0
87	MG	2	2030	1/1	0.88	0.30	47,47,47,47	0
87	MG	1	4019	1/1	0.88	0.17	40,40,40,40	0
87	MG	1	4021	1/1	0.88	0.17	43,43,43,43	1
87	MG	5	3793	1/1	0.88	0.13	43,43,43,43	0
87	MG	1	3864	1/1	0.88	0.25	49,49,49,49	0
86	OHX	1	3555	7/7	0.88	0.16	90,92,93,115	7
87	MG	1	4026	1/1	0.88	0.14	29,29,29,29	0
87	MG	5	3811	1/1	0.88	0.34	50,50,50,50	0
87	MG	1	3871	1/1	0.88	0.39	45,45,45,45	0
87	MG	5	3813	1/1	0.88	0.28	32,32,32,32	0
86	OHX	6	1991	7/7	0.88	0.17	79,80,81,108	7
87	MG	5	4060	1/1	0.88	0.17	54,54,54,54	0
87	MG	2	2034	1/1	0.88	0.27	63,63,63,63	0
87	MG	5	3821	1/1	0.88	0.17	48,48,48,48	0
86	OHX	1	3678	7/7	0.88	0.24	57,57,58,89	7
87	MG	6	2079	1/1	0.88	0.35	67,67,67,67	0
87	MG	5	3846	1/1	0.88	0.53	59,59,59,59	0
87	MG	6	2080	1/1	0.88	0.31	51,51,51,51	0
86	OHX	1	3589	7/7	0.88	0.18	84,86,88,115	7
87	MG	5	4081	1/1	0.88	0.23	44,44,44,44	0
87	MG	5	3862	1/1	0.88	0.42	59,59,59,59	0
86	OHX	2	2011	7/7	0.88	0.16	82,84,85,120	7
87	MG	5	3866	1/1	0.88	0.38	48,48,48,48	0
87	MG	5	4090	1/1	0.88	0.27	41,41,41,41	0
86	OHX	5	3519	7/7	0.88	0.15	133,136,138,156	7
87	MG	1	3736	1/1	0.88	0.26	44,44,44,44	0
87	MG	1	3746	1/1	0.88	0.23	39,39,39,39	0
87	MG	1	3901	1/1	0.88	0.13	46,46,46,46	0
86	OHX	1	3604	7/7	0.88	0.23	54,56,56,93	7
87	MG	1	4057	1/1	0.88	0.31	44,44,44,44	0
87	MG	5	3886	1/1	0.88	0.27	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	1	3906	1/1	0.88	0.29	46,46,46,46	0
86	OHX	1	3660	7/7	0.88	0.21	61,62,63,93	7
87	MG	1	4062	1/1	0.88	0.09	56,56,56,56	0
87	MG	5	3896	1/1	0.88	0.29	38,38,38,38	0
87	MG	1	3752	1/1	0.88	0.29	68,68,68,68	0
87	MG	1	3910	1/1	0.88	0.20	51,51,51,51	0
86	OHX	5	3609	7/7	0.88	0.18	66,67,70,97	7
87	MG	8	224	1/1	0.88	0.18	59,59,59,59	0
87	MG	l3	403	1/1	0.88	0.30	28,28,28,28	0
87	MG	3	210	1/1	0.88	0.28	47,47,47,47	0
87	MG	2	2043	1/1	0.88	0.23	57,57,57,57	0
86	OHX	2	2021	7/7	0.88	0.21	64,65,66,101	7
87	MG	1	3920	1/1	0.88	0.12	44,44,44,44	0
87	MG	5	3932	1/1	0.88	0.20	52,52,52,52	0
86	OHX	2	2028	7/7	0.88	0.09	130,130,131,153	7
86	OHX	4	216	7/7	0.88	0.19	69,70,70,98	7
87	MG	5	3938	1/1	0.88	0.12	37,37,37,37	0
86	OHX	2	1995	7/7	0.88	0.17	75,76,78,101	7
86	OHX	2	2023	7/7	0.88	0.20	76,77,79,101	7
86	OHX	5	3676	7/7	0.89	0.18	83,84,85,114	7
86	OHX	1	3695	7/7	0.89	0.10	118,118,118,140	7
87	MG	5	3939	1/1	0.89	0.15	52,52,52,52	0
86	OHX	1	3645	7/7	0.89	0.29	56,58,59,81	7
86	OHX	2	1953	7/7	0.89	0.17	85,86,88,118	7
86	OHX	6	2008	7/7	0.89	0.15	87,88,89,118	7
86	OHX	1	3648	7/7	0.89	0.26	63,65,66,99	7
86	OHX	5	3687	7/7	0.89	0.13	143,144,145,163	7
86	OHX	6	2014	7/7	0.89	0.15	94,95,97,120	7
87	MG	6	2131	1/1	0.89	0.31	60,60,60,60	0
87	MG	1	3780	1/1	0.89	0.18	41,41,41,41	0
86	OHX	5	3690	7/7	0.89	0.20	66,68,70,102	7
87	MG	1	3944	1/1	0.89	0.34	59,59,59,59	0
87	MG	1	3945	1/1	0.89	0.29	57,57,57,57	0
87	MG	c1	201	1/1	0.89	0.25	52,52,52,52	0
87	MG	1	3787	1/1	0.89	0.24	54,54,54,54	0
87	MG	5	3974	1/1	0.89	0.13	84,84,84,84	0
86	OHX	5	3692	7/7	0.89	0.21	55,57,59,90	7
87	MG	sM	301	1/1	0.89	0.15	52,52,52,52	0
87	MG	1	3789	1/1	0.89	0.22	43,43,43,43	0
87	MG	5	3730	1/1	0.89	0.18	42,42,42,42	0
87	MG	1	3794	1/1	0.89	0.25	61,61,61,61	0
87	MG	5	3732	1/1	0.89	0.08	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	1	3958	1/1	0.89	0.18	45,45,45,45	0
87	MG	5	3735	1/1	0.89	0.33	37,37,37,37	0
86	OHX	5	3570	7/7	0.89	0.17	86,86,87,110	7
86	OHX	6	1950	7/7	0.89	0.15	92,93,95,123	7
87	MG	5	3999	1/1	0.89	0.38	67,67,67,67	0
86	OHX	1	3620	7/7	0.89	0.20	60,62,63,97	7
86	OHX	5	3599	7/7	0.89	0.16	83,84,87,112	7
87	MG	1	3807	1/1	0.89	0.30	42,42,42,42	0
87	MG	5	4004	1/1	0.89	0.17	65,65,65,65	0
86	OHX	5	3699	7/7	0.89	0.23	68,69,70,100	7
87	MG	6	2051	1/1	0.89	0.36	75,75,75,75	0
87	MG	1	3814	1/1	0.89	0.28	29,29,29,29	0
86	OHX	5	3603	7/7	0.89	0.23	49,50,53,92	7
87	MG	1	3817	1/1	0.89	0.29	45,45,45,45	0
87	MG	2	2046	1/1	0.89	0.35	71,71,71,71	0
87	MG	5	4015	1/1	0.89	0.19	60,60,60,60	0
87	MG	2	2101	1/1	0.89	0.25	78,78,78,78	0
86	OHX	5	3604	7/7	0.89	0.11	110,112,113,139	7
87	MG	5	4021	1/1	0.89	0.14	44,44,44,44	0
87	MG	6	2063	1/1	0.89	0.23	52,52,52,52	0
86	OHX	2	1966	7/7	0.89	0.20	86,87,88,114	7
86	OHX	6	2019	7/7	0.89	0.16	82,83,84,106	7
87	MG	5	3791	1/1	0.89	0.21	39,39,39,39	0
86	OHX	5	3620	7/7	0.89	0.17	76,77,78,110	7
87	MG	5	3794	1/1	0.89	0.20	56,56,56,56	0
87	MG	5	3796	1/1	0.89	0.26	36,36,36,36	0
87	MG	1	3843	1/1	0.89	0.20	34,34,34,34	0
86	OHX	1	3654	7/7	0.89	0.23	75,75,77,106	7
87	MG	2	2109	1/1	0.89	0.36	57,57,57,57	0
87	MG	5	3809	1/1	0.89	0.15	48,48,48,48	0
86	OHX	6	2021	7/7	0.89	0.11	102,103,103,127	7
87	MG	5	4058	1/1	0.89	0.12	33,33,33,33	0
86	OHX	5	3629	7/7	0.89	0.12	99,99,101,126	7
86	OHX	1	3626	7/7	0.89	0.15	89,91,92,118	7
86	OHX	6	1968	7/7	0.89	0.17	89,91,94,128	7
86	OHX	5	3640	7/7	0.89	0.21	63,63,66,91	7
86	OHX	5	3714	7/7	0.89	0.09	127,127,127,145	7
87	MG	1	4029	1/1	0.89	0.33	43,43,43,43	0
87	MG	5	3833	1/1	0.89	0.26	38,38,38,38	0
86	OHX	5	3642	7/7	0.89	0.21	65,67,68,98	7
86	OHX	5	3643	7/7	0.89	0.28	50,52,54,79	7
86	OHX	2	1991	7/7	0.89	0.15	111,112,112,136	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	3854	1/1	0.89	0.25	41,41,41,41	0
87	MG	5	4086	1/1	0.89	0.29	45,45,45,45	0
86	OHX	1	3657	7/7	0.89	0.14	85,85,86,119	7
87	MG	1	4040	1/1	0.89	0.18	62,62,62,62	0
86	OHX	2	2016	7/7	0.89	0.11	126,126,127,150	7
86	OHX	2	2007	7/7	0.89	0.15	101,101,104,120	7
86	OHX	5	3653	7/7	0.89	0.20	70,72,73,97	7
86	OHX	1	3712	7/7	0.89	0.14	84,88,89,117	7
86	OHX	1	3613	7/7	0.89	0.19	62,65,66,97	7
87	MG	2	2069	1/1	0.89	0.27	63,63,63,63	0
87	MG	5	4099	1/1	0.89	0.14	41,41,41,41	0
87	MG	5	3873	1/1	0.89	0.30	46,46,46,46	0
86	OHX	7	208	7/7	0.89	0.20	51,53,55,82	7
87	MG	6	2097	1/1	0.89	0.29	59,59,59,59	0
87	MG	5	3883	1/1	0.89	0.33	44,44,44,44	0
87	MG	7	212	1/1	0.89	0.33	57,57,57,57	0
87	MG	1	4056	1/1	0.89	0.23	43,43,43,43	0
86	OHX	SR	401	7/7	0.89	0.11	142,143,143,158	7
87	MG	8	218	1/1	0.89	0.22	47,47,47,47	0
86	OHX	7	210	7/7	0.89	0.24	52,53,54,90	7
86	OHX	2	1971	7/7	0.89	0.13	153,154,154,170	7
87	MG	1	3905	1/1	0.89	0.17	51,51,51,51	0
86	OHX	5	3663	7/7	0.89	0.25	51,52,54,83	7
87	MG	5	3905	1/1	0.89	0.31	34,34,34,34	0
87	MG	m5	304	1/1	0.89	0.14	50,50,50,50	0
87	MG	1	3745	1/1	0.89	0.22	44,44,44,44	0
87	MG	2	2075	1/1	0.89	0.21	63,63,63,63	0
87	MG	n8	201	1/1	0.89	0.31	53,53,53,53	0
87	MG	5	3911	1/1	0.89	0.34	39,39,39,39	0
87	MG	5	3918	1/1	0.89	0.19	45,45,45,45	0
86	OHX	1	3568	7/7	0.89	0.24	71,72,73,98	7
86	OHX	6	2002	7/7	0.89	0.16	90,90,91,117	7
87	MG	1	3913	1/1	0.89	0.27	54,54,54,54	0
86	OHX	6	2036	7/7	0.89	0.12	101,103,104,124	7
86	OHX	5	3669	7/7	0.89	0.23	41,42,43,79	7
86	OHX	6	2003	7/7	0.89	0.16	91,91,92,122	7
87	MG	5	3968	1/1	0.90	0.13	34,34,34,34	0
86	OHX	2	2008	7/7	0.90	0.20	111,113,114,139	7
87	MG	5	3781	1/1	0.90	0.21	39,39,39,39	0
86	OHX	l3	402	7/7	0.90	0.15	86,87,88,111	7
86	OHX	l4	401	7/7	0.90	0.17	62,62,63,86	7
87	MG	1	3950	1/1	0.90	0.22	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	2	2060	1/1	0.90	0.30	76,76,76,76	0
86	OHX	5	3595	7/7	0.90	0.12	69,70,73,104	7
87	MG	1	3754	1/1	0.90	0.14	51,51,51,51	0
86	OHX	1	3588	7/7	0.90	0.16	104,104,106,123	7
87	MG	5	3792	1/1	0.90	0.20	53,53,53,53	0
87	MG	5	3991	1/1	0.90	0.23	41,41,41,41	0
86	OHX	2	2010	7/7	0.90	0.17	104,107,108,129	7
87	MG	1	3860	1/1	0.90	0.19	51,51,51,51	0
87	MG	6	2090	1/1	0.90	0.38	61,61,61,61	0
87	MG	5	3797	1/1	0.90	0.20	37,37,37,37	0
86	OHX	5	3601	7/7	0.90	0.18	83,85,88,109	7
87	MG	5	3799	1/1	0.90	0.26	46,46,46,46	0
87	MG	5	4002	1/1	0.90	0.14	42,42,42,42	0
87	MG	5	3801	1/1	0.90	0.30	37,37,37,37	0
87	MG	5	3805	1/1	0.90	0.26	63,63,63,63	0
87	MG	2	2104	1/1	0.90	0.23	65,65,65,65	0
87	MG	4	202	1/1	0.90	0.15	53,53,53,53	0
86	OHX	1	3707	7/7	0.90	0.12	84,84,85,114	7
87	MG	5	3810	1/1	0.90	0.15	51,51,51,51	0
87	MG	4	221	1/1	0.90	0.29	48,48,48,48	0
87	MG	1	3971	1/1	0.90	0.10	39,39,39,39	0
87	MG	1	3972	1/1	0.90	0.16	46,46,46,46	0
86	OHX	5	3666	7/7	0.90	0.21	54,55,56,85	7
87	MG	5	3815	1/1	0.90	0.25	33,33,33,33	0
87	MG	5	3816	1/1	0.90	0.22	51,51,51,51	0
86	OHX	1	3639	7/7	0.90	0.19	79,80,81,109	7
87	MG	5	3820	1/1	0.90	0.22	42,42,42,42	0
87	MG	1	3980	1/1	0.90	0.17	53,53,53,53	0
87	MG	4	231	1/1	0.90	0.25	50,50,50,50	0
86	OHX	5	3605	7/7	0.90	0.21	73,75,77,112	7
87	MG	5	3835	1/1	0.90	0.21	41,41,41,41	0
86	OHX	2	1998	7/7	0.90	0.14	97,97,100,119	7
87	MG	5	3840	1/1	0.90	0.31	34,34,34,34	0
87	MG	L4	402	1/1	0.90	0.13	50,50,50,50	0
87	MG	5	3847	1/1	0.90	0.20	34,34,34,34	0
87	MG	1	3985	1/1	0.90	0.24	44,44,44,44	0
86	OHX	C3	201	7/7	0.90	0.09	105,107,107,135	7
87	MG	5	4055	1/1	0.90	0.12	47,47,47,47	1
87	MG	5	3859	1/1	0.90	0.27	35,35,35,35	0
86	OHX	5	3673	7/7	0.90	0.17	67,67,68,98	7
87	MG	2	2113	1/1	0.90	0.38	61,61,61,61	0
87	MG	M7	204	1/1	0.90	0.17	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	1	3786	1/1	0.90	0.24	38,38,38,38	0
87	MG	6	2120	1/1	0.90	0.30	58,58,58,58	0
87	MG	1	3894	1/1	0.90	0.38	41,41,41,41	0
87	MG	1	4003	1/1	0.90	0.14	51,51,51,51	0
86	OHX	5	3713	7/7	0.90	0.27	44,44,45,87	7
86	OHX	2	1974	7/7	0.90	0.19	101,101,104,126	7
87	MG	5	4079	1/1	0.90	0.33	45,45,45,45	0
87	MG	1	4014	1/1	0.90	0.13	55,55,55,55	0
87	MG	5	4082	1/1	0.90	0.29	48,48,48,48	0
87	MG	6	2127	1/1	0.90	0.28	49,49,49,49	0
87	MG	5	4084	1/1	0.90	0.18	33,33,33,33	0
86	OHX	5	3677	7/7	0.90	0.13	99,100,102,127	7
86	OHX	1	3625	7/7	0.90	0.13	102,103,105,121	7
86	OHX	5	3717	7/7	0.90	0.13	121,122,123,139	7
86	OHX	2	2002	7/7	0.90	0.16	111,111,114,134	7
87	MG	6	2045	1/1	0.90	0.25	52,52,52,52	0
87	MG	5	4092	1/1	0.90	0.28	42,42,42,42	0
87	MG	1	4022	1/1	0.90	0.20	53,53,53,53	0
86	OHX	6	1979	7/7	0.90	0.18	87,88,90,120	7
86	OHX	6	1981	7/7	0.90	0.21	52,53,57,89	7
86	OHX	4	214	7/7	0.90	0.19	58,59,63,92	7
87	MG	5	4098	1/1	0.90	0.17	56,56,56,56	0
86	OHX	s9	201	7/7	0.90	0.22	68,68,71,98	7
87	MG	1	3812	1/1	0.90	0.33	34,34,34,34	0
87	MG	5	3728	1/1	0.90	0.13	46,46,46,46	0
87	MG	5	4103	1/1	0.90	0.16	49,49,49,49	0
87	MG	1	4032	1/1	0.90	0.26	68,68,68,68	0
87	MG	5	4106	1/1	0.90	0.26	50,50,50,50	0
86	OHX	1	3661	7/7	0.90	0.19	55,58,60,89	7
87	MG	1	3719	1/1	0.90	0.25	40,40,40,40	0
87	MG	5	3929	1/1	0.90	0.18	52,52,52,52	0
86	OHX	1	3683	7/7	0.90	0.17	79,81,81,109	7
87	MG	1	3724	1/1	0.90	0.35	62,62,62,62	0
86	OHX	1	3701	7/7	0.90	0.17	63,64,66,101	7
86	OHX	5	3508	7/7	0.90	0.17	79,80,82,117	7
87	MG	1	4044	1/1	0.90	0.31	57,57,57,57	0
87	MG	5	3741	1/1	0.90	0.16	29,29,29,29	0
87	MG	l2	303	1/1	0.90	0.16	44,44,44,44	0
86	OHX	2	2020	7/7	0.90	0.16	88,89,90,116	7
86	OHX	5	3564	7/7	0.90	0.17	88,89,91,122	7
87	MG	5	3945	1/1	0.90	0.24	56,56,56,56	0
87	MG	5	3745	1/1	0.90	0.09	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	n6	202	1/1	0.90	0.26	51,51,51,51	0
86	OHX	5	3697	7/7	0.90	0.12	111,111,112,137	7
86	OHX	M7	202	7/7	0.90	0.21	69,69,70,100	7
87	MG	5	3953	1/1	0.90	0.24	57,57,57,57	0
87	MG	1	3844	1/1	0.90	0.30	54,54,54,54	0
87	MG	1	4053	1/1	0.90	0.23	64,64,64,64	0
87	MG	5	3767	1/1	0.90	0.20	31,31,31,31	0
87	MG	5	3769	1/1	0.90	0.23	49,49,49,49	0
88	ZN	d7	101	1/1	0.90	0.09	142,142,142,142	0
86	OHX	8	215	7/7	0.90	0.17	70,71,75,101	7
87	MG	5	3779	1/1	0.90	0.25	52,52,52,52	0
87	MG	5	3740	1/1	0.91	0.14	40,40,40,40	0
86	OHX	5	3701	7/7	0.91	0.12	83,83,84,113	7
86	OHX	1	3694	7/7	0.91	0.17	54,57,59,93	7
86	OHX	5	3645	7/7	0.91	0.21	67,67,68,96	7
86	OHX	6	2016	7/7	0.91	0.23	64,65,67,102	7
87	MG	1	3738	1/1	0.91	0.39	51,51,51,51	0
87	MG	5	3960	1/1	0.91	0.29	54,54,54,54	0
87	MG	1	3856	1/1	0.91	0.27	31,31,31,31	0
87	MG	5	3752	1/1	0.91	0.12	39,39,39,39	0
87	MG	6	2047	1/1	0.91	0.29	53,53,53,53	0
87	MG	5	3756	1/1	0.91	0.31	61,61,61,61	0
87	MG	1	3744	1/1	0.91	0.17	49,49,49,49	0
87	MG	5	3761	1/1	0.91	0.27	48,48,48,48	0
87	MG	1	3993	1/1	0.91	0.15	40,40,40,40	0
87	MG	1	3859	1/1	0.91	0.27	33,33,33,33	0
87	MG	5	3770	1/1	0.91	0.10	43,43,43,43	0
87	MG	2	2038	1/1	0.91	0.35	56,56,56,56	0
87	MG	1	3861	1/1	0.91	0.25	47,47,47,47	0
87	MG	1	4004	1/1	0.91	0.23	52,52,52,52	0
87	MG	1	4005	1/1	0.91	0.21	54,54,54,54	0
87	MG	6	2059	1/1	0.91	0.32	67,67,67,67	0
87	MG	1	3863	1/1	0.91	0.37	38,38,38,38	0
87	MG	6	2061	1/1	0.91	0.30	39,39,39,39	0
87	MG	5	3994	1/1	0.91	0.24	49,49,49,49	0
87	MG	5	3995	1/1	0.91	0.16	53,53,53,53	0
86	OHX	5	3705	7/7	0.91	0.19	62,62,63,90	7
86	OHX	5	3648	7/7	0.91	0.19	84,85,87,110	7
86	OHX	5	3649	7/7	0.91	0.21	63,64,66,91	7
87	MG	1	3873	1/1	0.91	0.29	29,29,29,29	0
87	MG	1	3751	1/1	0.91	0.22	31,31,31,31	0
86	OHX	2	1980	7/7	0.91	0.19	81,81,82,106	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	3653	7/7	0.91	0.19	48,50,53,92	7
86	OHX	5	3544	7/7	0.91	0.19	58,60,63,99	7
87	MG	1	4024	1/1	0.91	0.24	63,63,63,63	0
87	MG	5	4007	1/1	0.91	0.16	56,56,56,56	0
86	OHX	6	1975	7/7	0.91	0.12	105,106,106,128	7
86	OHX	5	3656	7/7	0.91	0.20	46,48,50,85	7
87	MG	5	3800	1/1	0.91	0.20	53,53,53,53	0
86	OHX	5	3568	7/7	0.91	0.13	78,79,80,116	7
87	MG	5	3803	1/1	0.91	0.12	53,53,53,53	0
87	MG	1	4030	1/1	0.91	0.26	45,45,45,45	0
86	OHX	6	1976	7/7	0.91	0.14	104,106,108,131	7
86	OHX	3	207	7/7	0.91	0.11	108,108,110,132	7
86	OHX	5	3575	7/7	0.91	0.22	65,68,69,94	7
87	MG	5	4024	1/1	0.91	0.09	55,55,55,55	0
87	MG	1	3902	1/1	0.91	0.15	58,58,58,58	0
87	MG	1	3768	1/1	0.91	0.28	40,40,40,40	0
86	OHX	5	3580	7/7	0.91	0.27	60,61,61,91	7
86	OHX	5	3585	7/7	0.91	0.11	94,96,99,127	7
87	MG	2	2102	1/1	0.91	0.28	61,61,61,61	0
86	OHX	1	3679	7/7	0.91	0.23	74,75,76,101	7
87	MG	1	3783	1/1	0.91	0.35	66,66,66,66	0
87	MG	1	3911	1/1	0.91	0.12	41,41,41,41	1
87	MG	5	3819	1/1	0.91	0.21	33,33,33,33	0
87	MG	5	4043	1/1	0.91	0.26	77,77,77,77	0
86	OHX	1	3597	7/7	0.91	0.20	59,60,63,92	7
86	OHX	6	1985	7/7	0.91	0.18	84,84,85,111	7
87	MG	5	4046	1/1	0.91	0.10	49,49,49,49	0
86	OHX	1	3699	7/7	0.91	0.19	75,76,77,106	7
87	MG	5	4051	1/1	0.91	0.28	40,40,40,40	0
87	MG	5	3830	1/1	0.91	0.12	39,39,39,39	0
87	MG	5	4056	1/1	0.91	0.12	48,48,48,48	0
87	MG	5	3832	1/1	0.91	0.34	33,33,33,33	0
86	OHX	5	3602	7/7	0.91	0.12	119,121,122,143	7
87	MG	5	3834	1/1	0.91	0.24	33,33,33,33	0
87	MG	1	4055	1/1	0.91	0.26	51,51,51,51	0
87	MG	5	4062	1/1	0.91	0.14	36,36,36,36	1
87	MG	5	4064	1/1	0.91	0.26	61,61,61,61	0
87	MG	5	3836	1/1	0.91	0.31	27,27,27,27	0
86	OHX	6	1987	7/7	0.91	0.19	68,69,70,97	7
87	MG	1	3921	1/1	0.91	0.29	69,69,69,69	0
87	MG	5	4071	1/1	0.91	0.25	55,55,55,55	0
87	MG	5	3844	1/1	0.91	0.24	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	1	3793	1/1	0.91	0.29	38,38,38,38	0
87	MG	5	4074	1/1	0.91	0.41	55,55,55,55	0
86	OHX	1	3602	7/7	0.91	0.26	62,62,65,86	7
87	MG	5	4076	1/1	0.91	0.25	43,43,43,43	0
87	MG	1	4060	1/1	0.91	0.22	28,28,28,28	0
86	OHX	1	3684	7/7	0.91	0.09	107,107,108,130	7
86	OHX	5	3679	7/7	0.91	0.19	55,56,59,90	7
86	OHX	1	3573	7/7	0.91	0.24	61,61,62,88	7
87	MG	1	3800	1/1	0.91	0.27	35,35,35,35	0
86	OHX	5	3615	7/7	0.91	0.21	60,60,62,84	7
87	MG	1	3934	1/1	0.91	0.21	39,39,39,39	0
86	OHX	M0	301	7/7	0.91	0.15	68,70,73,97	7
87	MG	1	3937	1/1	0.91	0.31	52,52,52,52	0
86	OHX	8	214	7/7	0.91	0.14	104,105,107,129	7
87	MG	5	3870	1/1	0.91	0.33	50,50,50,50	0
87	MG	4	201	1/1	0.91	0.11	56,56,56,56	0
87	MG	1	3942	1/1	0.91	0.15	47,47,47,47	0
86	OHX	1	3670	7/7	0.91	0.12	117,118,119,142	7
86	OHX	2	2015	7/7	0.91	0.10	118,119,119,136	7
87	MG	5	3877	1/1	0.91	0.31	37,37,37,37	0
87	MG	4	222	1/1	0.91	0.15	43,43,43,43	0
86	OHX	1	3564	7/7	0.91	0.19	49,51,52,90	7
87	MG	5	4101	1/1	0.91	0.30	34,34,34,34	0
86	OHX	5	3628	7/7	0.91	0.27	55,58,59,80	7
86	OHX	l5	301	7/7	0.91	0.10	104,105,106,134	7
87	MG	5	3890	1/1	0.91	0.24	30,30,30,30	0
87	MG	1	3949	1/1	0.91	0.21	47,47,47,47	0
87	MG	1	3828	1/1	0.91	0.44	40,40,40,40	0
87	MG	4	230	1/1	0.91	0.30	72,72,72,72	0
87	MG	7	217	1/1	0.91	0.14	44,44,44,44	0
86	OHX	1	3706	7/7	0.91	0.24	51,52,54,82	7
87	MG	1	3954	1/1	0.91	0.21	54,54,54,54	0
87	MG	8	217	1/1	0.91	0.23	60,60,60,60	0
87	MG	5	3909	1/1	0.91	0.31	37,37,37,37	0
87	MG	1	3955	1/1	0.91	0.21	38,38,38,38	0
86	OHX	1	3649	7/7	0.91	0.16	68,68,70,99	7
87	MG	5	3913	1/1	0.91	0.34	41,41,41,41	0
87	MG	5	3915	1/1	0.91	0.10	47,47,47,47	0
87	MG	l2	302	1/1	0.91	0.32	51,51,51,51	0
86	OHX	5	3636	7/7	0.91	0.17	70,71,72,104	7
87	MG	d3	201	1/1	0.91	0.21	51,51,51,51	0
87	MG	m5	303	1/1	0.91	0.34	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	1954	7/7	0.91	0.12	152,153,154,166	7
87	MG	1	3839	1/1	0.91	0.30	29,29,29,29	0
87	MG	5	3725	1/1	0.91	0.20	40,40,40,40	0
87	MG	M5	303	1/1	0.91	0.09	49,49,49,49	0
87	MG	1	3840	1/1	0.91	0.25	30,30,30,30	0
87	MG	2	2076	1/1	0.91	0.28	51,51,51,51	0
86	OHX	1	3708	7/7	0.91	0.12	170,171,172,180	7
87	MG	o7	504	1/1	0.91	0.23	65,65,65,65	0
87	MG	1	3725	1/1	0.91	0.28	38,38,38,38	0
86	OHX	5	3641	7/7	0.91	0.17	68,69,70,102	7
86	OHX	1	3610	7/7	0.91	0.14	84,85,86,112	7
86	OHX	1	3675	7/7	0.91	0.18	63,64,65,94	7
87	MG	5	3738	1/1	0.91	0.23	34,34,34,34	0
87	MG	1	3849	1/1	0.91	0.31	33,33,33,33	0
87	MG	5	3948	1/1	0.91	0.16	40,40,40,40	0
86	OHX	1	3534	7/7	0.92	0.12	157,158,158,170	7
87	MG	5	3772	1/1	0.92	0.13	41,41,41,41	1
87	MG	5	3773	1/1	0.92	0.23	35,35,35,35	0
86	OHX	5	3630	7/7	0.92	0.14	113,115,116,133	7
87	MG	1	4011	1/1	0.92	0.17	41,41,41,41	0
86	OHX	1	3608	7/7	0.92	0.14	81,81,83,109	7
86	OHX	5	3634	7/7	0.92	0.17	62,63,64,90	7
87	MG	5	3978	1/1	0.92	0.12	39,39,39,39	0
87	MG	1	3887	1/1	0.92	0.21	39,39,39,39	0
86	OHX	1	3681	7/7	0.92	0.14	56,60,61,86	7
87	MG	5	3785	1/1	0.92	0.25	53,53,53,53	0
87	MG	6	2062	1/1	0.92	0.29	51,51,51,51	0
87	MG	1	4017	1/1	0.92	0.17	37,37,37,37	0
87	MG	1	4018	1/1	0.92	0.29	54,54,54,54	0
86	OHX	1	3650	7/7	0.92	0.20	53,53,55,79	7
87	MG	1	3890	1/1	0.92	0.26	30,30,30,30	0
86	OHX	1	3538	7/7	0.92	0.18	55,58,60,83	7
87	MG	1	3896	1/1	0.92	0.18	47,47,47,47	0
87	MG	5	3997	1/1	0.92	0.28	51,51,51,51	0
86	OHX	1	3545	7/7	0.92	0.16	68,69,71,105	7
86	OHX	6	1996	7/7	0.92	0.12	102,103,104,128	7
87	MG	1	3903	1/1	0.92	0.46	68,68,68,68	0
87	MG	1	4027	1/1	0.92	0.17	53,53,53,53	0
86	OHX	2	1944	7/7	0.92	0.17	104,104,108,128	7
86	OHX	1	3557	7/7	0.92	0.20	62,64,65,97	7
86	OHX	c8	201	7/7	0.92	0.12	107,107,108,127	7
87	MG	5	3802	1/1	0.92	0.12	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	3617	7/7	0.92	0.14	83,83,84,103	7
87	MG	5	3804	1/1	0.92	0.29	46,46,46,46	0
86	OHX	5	3500	7/7	0.92	0.15	74,78,81,100	7
87	MG	1	3790	1/1	0.92	0.34	44,44,44,44	0
87	MG	1	3792	1/1	0.92	0.28	53,53,53,53	0
86	OHX	5	3505	7/7	0.92	0.15	78,79,83,110	7
86	OHX	2	1945	7/7	0.92	0.12	110,111,113,137	7
87	MG	2	2110	1/1	0.92	0.33	59,59,59,59	0
87	MG	1	3917	1/1	0.92	0.18	43,43,43,43	0
87	MG	6	2087	1/1	0.92	0.28	55,55,55,55	0
86	OHX	1	3565	7/7	0.92	0.15	75,76,77,108	7
86	OHX	5	3531	7/7	0.92	0.20	62,64,65,100	7
86	OHX	5	3536	7/7	0.92	0.14	73,74,75,104	7
86	OHX	5	3537	7/7	0.92	0.12	95,96,100,118	7
87	MG	2	2115	1/1	0.92	0.36	66,66,66,66	0
87	MG	5	4033	1/1	0.92	0.16	45,45,45,45	0
87	MG	6	2095	1/1	0.92	0.17	52,52,52,52	0
87	MG	5	4037	1/1	0.92	0.21	52,52,52,52	0
86	OHX	5	3543	7/7	0.92	0.13	62,62,64,85	7
87	MG	1	3925	1/1	0.92	0.17	44,44,44,44	0
87	MG	5	4040	1/1	0.92	0.14	40,40,40,40	0
86	OHX	1	3566	7/7	0.92	0.12	104,105,105,128	7
86	OHX	1	3692	7/7	0.92	0.21	70,71,71,92	7
86	OHX	6	2009	7/7	0.92	0.16	66,67,70,99	7
86	OHX	2	1921	7/7	0.92	0.14	93,94,101,115	7
87	MG	1	3819	1/1	0.92	0.41	35,35,35,35	0
86	OHX	2	2009	7/7	0.92	0.12	133,134,134,148	7
87	MG	1	3822	1/1	0.92	0.16	50,50,50,50	0
87	MG	1	3825	1/1	0.92	0.26	38,38,38,38	0
87	MG	5	3843	1/1	0.92	0.15	32,32,32,32	0
86	OHX	5	3572	7/7	0.92	0.21	61,63,65,101	7
87	MG	5	3845	1/1	0.92	0.33	41,41,41,41	0
87	MG	1	3714	1/1	0.92	0.36	46,46,46,46	0
87	MG	6	2112	1/1	0.92	0.23	59,59,59,59	0
86	OHX	7	203	7/7	0.92	0.14	53,59,62,95	7
86	OHX	7	207	7/7	0.92	0.14	88,89,91,118	7
86	OHX	6	1946	7/7	0.92	0.17	62,64,66,99	7
87	MG	5	4065	1/1	0.92	0.24	59,59,59,59	0
87	MG	5	4066	1/1	0.92	0.35	60,60,60,60	0
87	MG	1	3837	1/1	0.92	0.37	35,35,35,35	0
87	MG	5	3861	1/1	0.92	0.17	40,40,40,40	0
86	OHX	1	3574	7/7	0.92	0.14	101,103,104,129	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	3663	7/7	0.92	0.15	73,74,75,117	7
86	OHX	5	3590	7/7	0.92	0.26	44,45,46,87	7
87	MG	4	219	1/1	0.92	0.29	59,59,59,59	0
87	MG	1	3953	1/1	0.92	0.17	52,52,52,52	0
86	OHX	5	3674	7/7	0.92	0.17	70,71,72,102	7
86	OHX	2	1984	7/7	0.92	0.14	85,85,89,120	7
87	MG	5	4077	1/1	0.92	0.11	39,39,39,39	0
87	MG	5	4078	1/1	0.92	0.35	37,37,37,37	0
87	MG	4	224	1/1	0.92	0.28	37,37,37,37	0
87	MG	5	4080	1/1	0.92	0.29	52,52,52,52	0
87	MG	6	2128	1/1	0.92	0.34	54,54,54,54	0
86	OHX	2	2000	7/7	0.92	0.11	100,101,102,129	7
86	OHX	1	3593	7/7	0.92	0.15	59,60,62,89	7
87	MG	1	3960	1/1	0.92	0.21	53,53,53,53	0
87	MG	5	3881	1/1	0.92	0.35	34,34,34,34	0
86	OHX	1	3594	7/7	0.92	0.19	70,70,72,100	7
87	MG	5	3884	1/1	0.92	0.36	33,33,33,33	0
87	MG	4	229	1/1	0.92	0.19	57,57,57,57	0
86	OHX	1	3669	7/7	0.92	0.24	45,47,50,76	7
86	OHX	6	2023	7/7	0.92	0.16	64,65,68,103	7
87	MG	1	3735	1/1	0.92	0.22	46,46,46,46	0
87	MG	1	3965	1/1	0.92	0.16	46,46,46,46	0
87	MG	5	3892	1/1	0.92	0.27	40,40,40,40	0
86	OHX	5	3683	7/7	0.92	0.14	92,92,94,121	7
87	MG	1	3968	1/1	0.92	0.26	49,49,49,49	0
86	OHX	2	1957	7/7	0.92	0.11	136,137,137,147	7
87	MG	1	3854	1/1	0.92	0.36	41,41,41,41	0
87	MG	5	3727	1/1	0.92	0.34	58,58,58,58	0
87	MG	M3	202	1/1	0.92	0.13	38,38,38,38	0
86	OHX	2	1990	7/7	0.92	0.14	101,102,106,126	7
86	OHX	1	3598	7/7	0.92	0.19	62,63,64,92	7
87	MG	5	4105	1/1	0.92	0.21	40,40,40,40	0
87	MG	1	3974	1/1	0.92	0.28	58,58,58,58	0
86	OHX	5	3688	7/7	0.92	0.19	62,63,64,97	7
87	MG	5	3919	1/1	0.92	0.25	46,46,46,46	0
87	MG	7	213	1/1	0.92	0.18	27,27,27,27	0
87	MG	5	3920	1/1	0.92	0.20	39,39,39,39	0
87	MG	N3	201	1/1	0.92	0.24	43,43,43,43	0
86	OHX	2	2005	7/7	0.92	0.14	81,81,81,110	7
87	MG	7	222	1/1	0.92	0.16	59,59,59,59	0
87	MG	N8	202	1/1	0.92	0.21	41,41,41,41	0
87	MG	5	3737	1/1	0.92	0.25	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	1	3748	1/1	0.92	0.41	45,45,45,45	0
86	OHX	5	3616	7/7	0.92	0.13	77,79,80,101	7
86	OHX	6	1978	7/7	0.92	0.17	79,80,83,103	7
86	OHX	5	3693	7/7	0.92	0.18	64,66,67,88	7
87	MG	5	3742	1/1	0.92	0.25	26,26,26,26	0
86	OHX	1	3491	7/7	0.92	0.15	48,53,56,87	7
87	MG	1	3869	1/1	0.92	0.28	36,36,36,36	0
87	MG	1	3991	1/1	0.92	0.35	61,61,61,61	0
86	OHX	1	3517	7/7	0.92	0.16	55,58,61,96	7
87	MG	1	3994	1/1	0.92	0.26	58,58,58,58	0
87	MG	n3	203	1/1	0.92	0.26	31,31,31,31	0
87	MG	5	3947	1/1	0.92	0.23	52,52,52,52	0
87	MG	5	3749	1/1	0.92	0.24	44,44,44,44	0
86	OHX	1	3676	7/7	0.92	0.22	68,68,70,94	7
86	OHX	1	3647	7/7	0.92	0.13	73,75,76,102	7
87	MG	n9	101	1/1	0.92	0.12	46,46,46,46	0
87	MG	1	4002	1/1	0.92	0.11	37,37,37,37	0
87	MG	6	2049	1/1	0.92	0.29	50,50,50,50	0
87	MG	5	3955	1/1	0.92	0.16	36,36,36,36	0
87	MG	6	2050	1/1	0.92	0.31	38,38,38,38	0
87	MG	5	3764	1/1	0.92	0.24	44,44,44,44	0
87	MG	2	2093	1/1	0.92	0.29	61,61,61,61	0
87	MG	5	3768	1/1	0.92	0.11	39,39,39,39	0
87	MG	5	3962	1/1	0.92	0.21	40,40,40,40	0
87	MG	1	3879	1/1	0.92	0.23	39,39,39,39	0
86	OHX	5	3623	7/7	0.93	0.16	83,85,86,117	7
87	MG	1	3734	1/1	0.93	0.14	42,42,42,42	0
87	MG	1	4007	1/1	0.93	0.26	52,52,52,52	0
87	MG	1	4008	1/1	0.93	0.34	50,50,50,50	0
86	OHX	5	3624	7/7	0.93	0.13	90,91,92,112	7
86	OHX	1	3541	7/7	0.93	0.18	68,69,70,102	7
87	MG	1	3737	1/1	0.93	0.20	60,60,60,60	0
87	MG	5	3982	1/1	0.93	0.06	52,52,52,52	0
87	MG	5	3983	1/1	0.93	0.24	52,52,52,52	0
86	OHX	5	3626	7/7	0.93	0.14	78,78,79,103	7
87	MG	1	3740	1/1	0.93	0.30	48,48,48,48	0
87	MG	1	3874	1/1	0.93	0.23	36,36,36,36	0
87	MG	5	3990	1/1	0.93	0.25	52,52,52,52	0
87	MG	1	3741	1/1	0.93	0.24	49,49,49,49	0
86	OHX	5	3627	7/7	0.93	0.16	57,58,59,90	7
86	OHX	2	2004	7/7	0.93	0.18	70,71,71,94	7
86	OHX	1	3547	7/7	0.93	0.15	72,73,74,106	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	3643	7/7	0.93	0.22	51,52,53,83	7
86	OHX	2	1909	7/7	0.93	0.16	99,102,106,112	0
86	OHX	2	1992	7/7	0.93	0.14	88,90,90,111	7
86	OHX	1	3607	7/7	0.93	0.10	97,97,100,127	7
86	OHX	1	3562	7/7	0.93	0.11	96,98,99,118	7
87	MG	1	3753	1/1	0.93	0.26	45,45,45,45	0
87	MG	5	3807	1/1	0.93	0.31	39,39,39,39	0
87	MG	1	4028	1/1	0.93	0.12	39,39,39,39	0
86	OHX	1	3609	7/7	0.93	0.17	72,74,75,102	7
86	OHX	3	206	7/7	0.93	0.14	96,97,98,122	7
86	OHX	6	1993	7/7	0.93	0.12	85,86,89,116	7
87	MG	1	3897	1/1	0.93	0.16	33,33,33,33	0
87	MG	1	3898	1/1	0.93	0.25	35,35,35,35	0
86	OHX	1	3563	7/7	0.93	0.12	93,95,98,115	7
86	OHX	5	3496	7/7	0.93	0.16	66,68,71,98	7
87	MG	6	2092	1/1	0.93	0.37	61,61,61,61	0
87	MG	1	3762	1/1	0.93	0.23	43,43,43,43	0
86	OHX	2	1933	7/7	0.93	0.14	75,79,81,108	7
87	MG	1	4042	1/1	0.93	0.22	55,55,55,55	0
87	MG	1	3765	1/1	0.93	0.16	35,35,35,35	0
86	OHX	4	212	7/7	0.93	0.10	113,115,117,141	7
87	MG	1	3907	1/1	0.93	0.24	42,42,42,42	0
87	MG	5	3831	1/1	0.93	0.21	47,47,47,47	0
87	MG	2	2082	1/1	0.93	0.32	60,60,60,60	0
87	MG	1	4048	1/1	0.93	0.24	59,59,59,59	0
86	OHX	5	3647	7/7	0.93	0.23	50,52,54,92	7
87	MG	1	3771	1/1	0.93	0.19	33,33,33,33	0
87	MG	1	3772	1/1	0.93	0.19	44,44,44,44	0
87	MG	1	3773	1/1	0.93	0.17	46,46,46,46	0
86	OHX	6	1998	7/7	0.93	0.18	76,77,78,103	7
86	OHX	6	1999	7/7	0.93	0.15	78,79,80,103	7
87	MG	6	2110	1/1	0.93	0.14	49,49,49,49	0
86	OHX	2	1996	7/7	0.93	0.16	88,89,91,112	7
86	OHX	5	3534	7/7	0.93	0.20	56,58,61,96	7
86	OHX	1	3615	7/7	0.93	0.12	96,97,98,121	7
86	OHX	8	207	7/7	0.93	0.14	96,97,99,122	7
87	MG	5	3853	1/1	0.93	0.24	40,40,40,40	0
87	MG	5	4047	1/1	0.93	0.10	44,44,44,44	0
86	OHX	2	1997	7/7	0.93	0.15	69,70,72,98	7
87	MG	5	3855	1/1	0.93	0.31	41,41,41,41	0
87	MG	5	3856	1/1	0.93	0.25	50,50,50,50	0
87	MG	5	3858	1/1	0.93	0.29	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	3539	7/7	0.93	0.11	108,109,111,129	7
86	OHX	5	3657	7/7	0.93	0.22	56,57,58,91	7
87	MG	1	4065	1/1	0.93	0.19	69,69,69,69	0
86	OHX	2	1935	7/7	0.93	0.13	98,100,101,122	7
86	OHX	1	3490	7/7	0.93	0.15	72,74,78,102	7
87	MG	6	2123	1/1	0.93	0.12	62,62,62,62	0
87	MG	1	3791	1/1	0.93	0.17	46,46,46,46	0
87	MG	3	213	1/1	0.93	0.31	38,38,38,38	0
86	OHX	5	3550	7/7	0.93	0.14	67,70,71,107	7
86	OHX	5	3555	7/7	0.93	0.21	45,46,48,77	7
86	OHX	5	3558	7/7	0.93	0.14	97,97,98,125	7
87	MG	1	3935	1/1	0.93	0.24	40,40,40,40	0
87	MG	5	3874	1/1	0.93	0.28	34,34,34,34	0
86	OHX	5	3559	7/7	0.93	0.13	105,106,107,129	7
87	MG	1	3796	1/1	0.93	0.16	49,49,49,49	0
87	MG	1	3938	1/1	0.93	0.09	48,48,48,48	0
87	MG	5	3878	1/1	0.93	0.34	36,36,36,36	0
86	OHX	5	3563	7/7	0.93	0.17	66,68,69,96	7
87	MG	1	3798	1/1	0.93	0.21	38,38,38,38	0
86	OHX	m0	301	7/7	0.93	0.12	97,98,101,130	7
87	MG	5	3885	1/1	0.93	0.22	29,29,29,29	0
86	OHX	1	3689	7/7	0.93	0.21	43,45,46,85	7
86	OHX	5	3565	7/7	0.93	0.09	124,125,127,141	7
86	OHX	m5	302	7/7	0.93	0.17	85,86,86,110	7
86	OHX	5	3671	7/7	0.93	0.24	59,60,62,93	7
86	OHX	5	3566	7/7	0.93	0.19	66,67,67,94	7
86	OHX	2	1963	7/7	0.93	0.17	72,74,75,98	7
87	MG	5	3894	1/1	0.93	0.21	35,35,35,35	0
86	OHX	6	2011	7/7	0.93	0.14	64,65,66,95	7
86	OHX	6	2012	7/7	0.93	0.16	66,66,67,88	7
87	MG	5	3899	1/1	0.93	0.35	43,43,43,43	0
87	MG	5	3904	1/1	0.93	0.30	40,40,40,40	0
86	OHX	1	3581	7/7	0.93	0.11	83,86,88,119	7
86	OHX	1	3585	7/7	0.93	0.17	56,57,59,92	7
87	MG	5	3907	1/1	0.93	0.19	39,39,39,39	0
86	OHX	5	3577	7/7	0.93	0.18	67,68,71,100	7
86	OHX	6	1932	7/7	0.93	0.14	75,82,85,110	7
87	MG	5	3733	1/1	0.93	0.27	46,46,46,46	0
87	MG	1	3827	1/1	0.93	0.23	30,30,30,30	0
86	OHX	6	1940	7/7	0.93	0.13	118,121,123,134	7
87	MG	5	3916	1/1	0.93	0.13	46,46,46,46	0
86	OHX	5	3587	7/7	0.93	0.17	59,60,61,91	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	3589	7/7	0.93	0.28	48,50,52,84	7
86	OHX	1	3624	7/7	0.93	0.18	54,54,55,85	7
86	OHX	5	3686	7/7	0.93	0.19	63,63,64,95	7
86	OHX	6	1949	7/7	0.93	0.14	99,100,102,117	7
87	MG	1	3838	1/1	0.93	0.17	42,42,42,42	0
87	MG	7	215	1/1	0.93	0.33	30,30,30,30	0
86	OHX	1	3504	7/7	0.93	0.14	85,86,89,113	7
86	OHX	1	3509	7/7	0.93	0.17	51,52,55,75	7
87	MG	1	3841	1/1	0.93	0.25	40,40,40,40	0
86	OHX	5	3600	7/7	0.93	0.22	51,53,54,89	7
86	OHX	1	3662	7/7	0.93	0.17	63,64,66,94	7
86	OHX	6	1955	7/7	0.93	0.10	169,169,170,177	7
86	OHX	6	1956	7/7	0.93	0.10	157,158,158,169	7
87	MG	8	220	1/1	0.93	0.24	44,44,44,44	0
87	MG	8	221	1/1	0.93	0.12	53,53,53,53	0
86	OHX	2	1985	7/7	0.93	0.10	107,108,109,128	7
87	MG	6	2042	1/1	0.93	0.36	67,67,67,67	0
86	OHX	2	1964	7/7	0.93	0.16	72,73,75,116	7
86	OHX	1	3629	7/7	0.93	0.12	104,104,106,123	7
86	OHX	5	3613	7/7	0.93	0.25	41,43,45,72	7
87	MG	5	3762	1/1	0.93	0.26	57,57,57,57	0
87	MG	5	3949	1/1	0.93	0.23	57,57,57,57	0
87	MG	1	3723	1/1	0.93	0.17	51,51,51,51	0
86	OHX	1	3631	7/7	0.93	0.12	61,64,65,94	7
87	MG	1	3990	1/1	0.93	0.11	58,58,58,58	0
86	OHX	1	3536	7/7	0.93	0.15	50,55,57,76	7
86	OHX	1	3633	7/7	0.93	0.21	69,70,72,98	7
87	MG	5	3956	1/1	0.93	0.14	61,61,61,61	0
87	MG	1	3728	1/1	0.93	0.31	56,56,56,56	0
87	MG	1	3996	1/1	0.93	0.08	47,47,47,47	0
87	MG	5	3774	1/1	0.93	0.24	46,46,46,46	0
86	OHX	5	3619	7/7	0.93	0.19	53,54,56,87	7
87	MG	6	2055	1/1	0.93	0.38	44,44,44,44	0
87	MG	1	3999	1/1	0.93	0.18	32,32,32,32	0
86	OHX	2	1951	7/7	0.93	0.10	134,135,136,149	7
87	MG	5	3965	1/1	0.93	0.31	48,48,48,48	0
86	OHX	5	3621	7/7	0.93	0.12	92,93,95,111	7
88	ZN	e1	501	1/1	0.93	0.07	191,191,191,191	0
87	MG	5	3970	1/1	0.93	0.23	51,51,51,51	0
86	OHX	1	3637	7/7	0.93	0.13	116,116,117,131	7
86	OHX	2	1965	7/7	0.94	0.14	92,93,94,124	7
87	MG	1	3726	1/1	0.94	0.11	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	3857	1/1	0.94	0.20	31,31,31,31	0
87	MG	1	3915	1/1	0.94	0.28	63,63,63,63	0
87	MG	1	4020	1/1	0.94	0.12	43,43,43,43	0
86	OHX	5	3655	7/7	0.94	0.17	61,64,64,89	7
86	OHX	1	3600	7/7	0.94	0.08	124,124,125,147	7
87	MG	5	4011	1/1	0.94	0.20	43,43,43,43	0
86	OHX	5	3586	7/7	0.94	0.13	62,63,64,98	7
87	MG	5	4013	1/1	0.94	0.09	49,49,49,49	0
87	MG	5	3863	1/1	0.94	0.28	49,49,49,49	0
87	MG	6	2052	1/1	0.94	0.31	61,61,61,61	0
87	MG	5	4016	1/1	0.94	0.28	29,29,29,29	0
87	MG	5	3865	1/1	0.94	0.26	58,58,58,58	0
86	OHX	6	1983	7/7	0.94	0.17	89,90,92,122	7
87	MG	1	3824	1/1	0.94	0.25	34,34,34,34	0
87	MG	5	4023	1/1	0.94	0.21	44,44,44,44	0
86	OHX	5	3659	7/7	0.94	0.15	48,50,52,90	7
87	MG	5	4025	1/1	0.94	0.07	56,56,56,56	0
87	MG	1	3826	1/1	0.94	0.21	36,36,36,36	0
86	OHX	5	3660	7/7	0.94	0.20	42,46,48,80	7
86	OHX	5	3588	7/7	0.94	0.15	77,78,78,101	7
87	MG	1	3926	1/1	0.94	0.23	45,45,45,45	0
86	OHX	2	1931	7/7	0.94	0.11	112,112,116,133	7
87	MG	1	3928	1/1	0.94	0.23	46,46,46,46	0
87	MG	5	4036	1/1	0.94	0.12	39,39,39,39	0
86	OHX	6	2033	7/7	0.94	0.17	86,87,88,106	7
86	OHX	5	3594	7/7	0.94	0.16	79,79,81,107	7
86	OHX	8	210	7/7	0.94	0.14	86,87,88,113	7
87	MG	1	3836	1/1	0.94	0.32	48,48,48,48	0
87	MG	5	3882	1/1	0.94	0.24	30,30,30,30	0
86	OHX	3	202	7/7	0.94	0.17	62,64,67,94	7
86	OHX	1	3603	7/7	0.94	0.19	69,69,70,99	7
86	OHX	5	3598	7/7	0.94	0.17	52,52,54,77	7
87	MG	1	3743	1/1	0.94	0.18	53,53,53,53	0
86	OHX	1	3540	7/7	0.94	0.14	88,89,93,116	7
86	OHX	1	3680	7/7	0.94	0.19	57,58,60,100	7
87	MG	5	4048	1/1	0.94	0.12	50,50,50,50	0
87	MG	5	3765	1/1	0.94	0.25	37,37,37,37	0
86	OHX	2	2001	7/7	0.94	0.14	74,75,77,107	7
86	OHX	1	3543	7/7	0.94	0.15	59,62,64,100	7
87	MG	5	3893	1/1	0.94	0.21	38,38,38,38	0
87	MG	1	4050	1/1	0.94	0.22	55,55,55,55	0
87	MG	6	2075	1/1	0.94	0.19	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	3771	1/1	0.94	0.06	46,46,46,46	0
86	OHX	2	1956	7/7	0.94	0.16	76,76,78,103	7
86	OHX	2	1918	7/7	0.94	0.14	82,83,87,106	7
86	OHX	1	3548	7/7	0.94	0.14	80,80,82,99	7
87	MG	5	3775	1/1	0.94	0.18	36,36,36,36	0
87	MG	5	3776	1/1	0.94	0.33	50,50,50,50	0
87	MG	1	3948	1/1	0.94	0.29	49,49,49,49	0
87	MG	5	3778	1/1	0.94	0.21	34,34,34,34	0
86	OHX	5	3607	7/7	0.94	0.15	47,48,50,84	7
86	OHX	5	3608	7/7	0.94	0.15	70,71,72,99	7
87	MG	5	3914	1/1	0.94	0.39	33,33,33,33	0
86	OHX	1	3554	7/7	0.94	0.14	69,69,70,97	7
86	OHX	5	3611	7/7	0.94	0.14	83,84,86,106	7
87	MG	5	3917	1/1	0.94	0.06	48,48,48,48	0
86	OHX	5	3612	7/7	0.94	0.19	64,64,65,96	7
86	OHX	2	1934	7/7	0.94	0.12	97,98,99,115	7
86	OHX	2	1959	7/7	0.94	0.13	96,99,100,120	7
86	OHX	1	3560	7/7	0.94	0.10	111,113,114,136	7
87	MG	1	3959	1/1	0.94	0.23	45,45,45,45	0
86	OHX	5	3502	7/7	0.94	0.15	74,76,78,106	7
87	MG	5	3926	1/1	0.94	0.26	51,51,51,51	0
86	OHX	2	1960	7/7	0.94	0.14	80,82,83,112	7
86	OHX	1	3466	7/7	0.94	0.13	81,83,86,117	7
86	OHX	6	1929	7/7	0.94	0.14	137,138,140,147	7
87	MG	5	4087	1/1	0.94	0.24	42,42,42,42	0
86	OHX	5	3525	7/7	0.94	0.14	57,59,61,91	7
86	OHX	5	3528	7/7	0.94	0.16	52,54,57,86	7
87	MG	5	3935	1/1	0.94	0.29	43,43,43,43	0
87	MG	5	3936	1/1	0.94	0.14	51,51,51,51	0
87	MG	1	3865	1/1	0.94	0.19	39,39,39,39	0
86	OHX	1	3477	7/7	0.94	0.11	96,98,104,122	7
86	OHX	2	1993	7/7	0.94	0.10	114,114,115,138	7
87	MG	1	3970	1/1	0.94	0.18	58,58,58,58	0
86	OHX	2	1975	7/7	0.94	0.12	110,111,112,131	7
87	MG	5	4097	1/1	0.94	0.29	22,22,22,22	0
86	OHX	1	3500	7/7	0.94	0.11	101,104,108,126	7
87	MG	1	3777	1/1	0.94	0.23	39,39,39,39	0
86	OHX	1	3623	7/7	0.94	0.08	124,124,124,144	7
86	OHX	1	3501	7/7	0.94	0.14	54,58,61,93	7
86	OHX	2	1961	7/7	0.94	0.15	65,66,71,98	7
86	OHX	1	3506	7/7	0.94	0.11	103,104,108,129	7
86	OHX	5	3551	7/7	0.94	0.09	113,114,115,135	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	1	3983	1/1	0.94	0.09	41,41,41,41	0
87	MG	1	3882	1/1	0.94	0.33	51,51,51,51	0
86	OHX	2	1946	7/7	0.94	0.14	125,126,127,136	7
87	MG	1	3885	1/1	0.94	0.25	35,35,35,35	0
86	OHX	5	3637	7/7	0.94	0.12	59,61,61,95	7
87	MG	5	3959	1/1	0.94	0.16	56,56,56,56	0
87	MG	6	2119	1/1	0.94	0.22	49,49,49,49	0
86	OHX	5	3638	7/7	0.94	0.21	45,45,46,80	7
87	MG	L3	403	1/1	0.94	0.22	48,48,48,48	0
87	MG	5	3817	1/1	0.94	0.15	40,40,40,40	0
86	OHX	1	3512	7/7	0.94	0.14	69,72,76,102	7
86	OHX	2	1927	7/7	0.94	0.14	98,99,102,123	7
87	MG	5	3967	1/1	0.94	0.19	37,37,37,37	0
86	OHX	5	3561	7/7	0.94	0.11	112,112,114,136	7
86	OHX	6	1961	7/7	0.94	0.16	77,79,81,110	7
87	MG	5	3822	1/1	0.94	0.32	35,35,35,35	0
86	OHX	1	3592	7/7	0.94	0.14	40,43,45,79	7
87	MG	5	3827	1/1	0.94	0.24	44,44,44,44	0
87	MG	l2	301	1/1	0.94	0.37	53,53,53,53	0
87	MG	5	3828	1/1	0.94	0.34	31,31,31,31	0
87	MG	1	3998	1/1	0.94	0.09	44,44,44,44	0
86	OHX	6	1965	7/7	0.94	0.14	96,97,98,122	7
87	MG	m5	301	1/1	0.94	0.16	44,44,44,44	0
86	OHX	6	1966	7/7	0.94	0.17	67,69,71,91	7
87	MG	1	3900	1/1	0.94	0.20	39,39,39,39	0
86	OHX	1	3520	7/7	0.94	0.15	60,60,63,89	7
86	OHX	1	3525	7/7	0.94	0.14	80,81,84,112	7
86	OHX	1	3526	7/7	0.94	0.12	76,77,79,96	7
87	MG	O2	201	1/1	0.94	0.17	33,33,33,33	0
87	MG	5	3839	1/1	0.94	0.27	42,42,42,42	0
86	OHX	1	3635	7/7	0.94	0.14	72,73,74,101	7
87	MG	5	3841	1/1	0.94	0.35	46,46,46,46	0
87	MG	5	3842	1/1	0.94	0.27	40,40,40,40	0
86	OHX	1	3636	7/7	0.94	0.23	58,58,61,85	7
87	MG	1	3803	1/1	0.94	0.41	47,47,47,47	0
87	MG	1	4010	1/1	0.94	0.23	68,68,68,68	0
87	MG	1	3805	1/1	0.94	0.28	43,43,43,43	0
86	OHX	2	2025	7/7	0.94	0.15	98,98,100,121	7
87	MG	5	3851	1/1	0.94	0.26	34,34,34,34	0
86	OHX	5	3652	7/7	0.94	0.14	63,64,66,100	7
87	MG	1	3811	1/1	0.94	0.23	38,38,38,38	0
86	OHX	5	3578	7/7	0.94	0.10	153,154,155,165	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	2	1976	7/7	0.95	0.11	108,108,109,127	7
86	OHX	8	206	7/7	0.95	0.13	72,72,73,103	7
87	MG	1	4034	1/1	0.95	0.30	57,57,57,57	0
86	OHX	5	3553	7/7	0.95	0.14	54,55,56,87	7
86	OHX	8	208	7/7	0.95	0.11	89,89,90,115	7
87	MG	1	4037	1/1	0.95	0.40	62,62,62,62	0
86	OHX	8	209	7/7	0.95	0.14	71,72,74,99	7
87	MG	1	3914	1/1	0.95	0.15	47,47,47,47	0
86	OHX	5	3554	7/7	0.95	0.19	54,57,58,90	7
86	OHX	1	3511	7/7	0.95	0.13	88,90,93,110	7
87	MG	5	3825	1/1	0.95	0.37	39,39,39,39	0
87	MG	5	3826	1/1	0.95	0.31	27,27,27,27	0
86	OHX	O1	201	7/7	0.95	0.12	89,91,92,109	7
86	OHX	O3	201	7/7	0.95	0.18	54,55,57,74	7
87	MG	1	4045	1/1	0.95	0.29	42,42,42,42	0
87	MG	1	3919	1/1	0.95	0.14	51,51,51,51	0
86	OHX	6	1919	7/7	0.95	0.13	62,64,67,98	7
87	MG	6	2103	1/1	0.95	0.18	59,59,59,59	0
86	OHX	5	3562	7/7	0.95	0.20	46,48,49,75	7
86	OHX	6	2010	7/7	0.95	0.15	58,58,59,88	7
86	OHX	1	3556	7/7	0.95	0.12	72,73,76,107	7
87	MG	6	2108	1/1	0.95	0.14	51,51,51,51	0
86	OHX	1	3458	7/7	0.95	0.11	109,110,114,130	7
87	MG	1	3804	1/1	0.95	0.26	32,32,32,32	0
86	OHX	1	3514	7/7	0.95	0.15	41,46,51,81	7
87	MG	1	4054	1/1	0.95	0.20	48,48,48,48	0
86	OHX	2	1994	7/7	0.95	0.10	89,90,91,113	7
86	OHX	5	3569	7/7	0.95	0.15	58,61,64,89	7
87	MG	1	3929	1/1	0.95	0.14	40,40,40,40	0
86	OHX	6	1941	7/7	0.95	0.14	72,72,76,96	7
86	OHX	1	3473	7/7	0.95	0.13	77,80,82,116	7
87	MG	5	3848	1/1	0.95	0.22	33,33,33,33	0
87	MG	1	3813	1/1	0.95	0.33	30,30,30,30	0
86	OHX	5	3664	7/7	0.95	0.07	99,100,101,126	7
86	OHX	1	3611	7/7	0.95	0.15	59,60,62,92	7
86	OHX	5	3574	7/7	0.95	0.10	62,63,64,95	7
87	MG	2	2031	1/1	0.95	0.27	50,50,50,50	0
87	MG	1	3820	1/1	0.95	0.27	41,41,41,41	0
87	MG	5	4026	1/1	0.95	0.14	53,53,53,53	0
87	MG	5	4027	1/1	0.95	0.17	56,56,56,56	0
87	MG	1	3940	1/1	0.95	0.17	55,55,55,55	0
87	MG	5	4029	1/1	0.95	0.20	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	3523	7/7	0.95	0.15	83,84,87,111	7
86	OHX	6	1951	7/7	0.95	0.11	115,116,117,131	7
87	MG	1	3823	1/1	0.95	0.34	40,40,40,40	0
86	OHX	1	3475	7/7	0.95	0.14	57,60,62,90	7
86	OHX	2	1972	7/7	0.95	0.08	122,123,124,147	7
86	OHX	1	3528	7/7	0.95	0.15	53,54,57,85	7
86	OHX	1	3531	7/7	0.95	0.15	56,59,60,98	7
86	OHX	1	3532	7/7	0.95	0.12	107,109,111,126	7
86	OHX	5	3675	7/7	0.95	0.10	132,133,134,150	7
87	MG	4	220	1/1	0.95	0.27	53,53,53,53	0
86	OHX	1	3575	7/7	0.95	0.15	63,64,65,85	7
86	OHX	1	3576	7/7	0.95	0.13	71,72,74,106	7
87	MG	1	3952	1/1	0.95	0.19	52,52,52,52	0
86	OHX	1	3578	7/7	0.95	0.09	108,110,110,135	7
86	OHX	5	3593	7/7	0.95	0.15	50,51,53,81	7
86	OHX	5	3680	7/7	0.95	0.13	74,75,77,106	7
86	OHX	1	3579	7/7	0.95	0.14	60,61,63,89	7
87	MG	1	3957	1/1	0.95	0.15	50,50,50,50	0
86	OHX	1	3533	7/7	0.95	0.14	59,60,62,92	7
86	OHX	1	3583	7/7	0.95	0.10	83,84,86,110	7
87	MG	5	4052	1/1	0.95	0.10	34,34,34,34	0
87	MG	5	4053	1/1	0.95	0.05	48,48,48,48	0
87	MG	5	4054	1/1	0.95	0.17	30,30,30,30	0
87	MG	5	3880	1/1	0.95	0.42	40,40,40,40	0
86	OHX	1	3584	7/7	0.95	0.08	106,106,108,131	7
86	OHX	6	1972	7/7	0.95	0.14	103,104,106,123	7
86	OHX	1	3483	7/7	0.95	0.12	79,81,83,107	7
87	MG	L2	302	1/1	0.95	0.17	39,39,39,39	0
86	OHX	1	3587	7/7	0.95	0.12	83,84,85,107	7
86	OHX	1	3487	7/7	0.95	0.11	120,121,123,137	7
87	MG	5	4063	1/1	0.95	0.18	48,48,48,48	0
86	OHX	2	1987	7/7	0.95	0.11	100,100,101,124	7
87	MG	L7	302	1/1	0.95	0.12	49,49,49,49	0
87	MG	1	3966	1/1	0.95	0.12	50,50,50,50	0
87	MG	M0	302	1/1	0.95	0.18	51,51,51,51	0
86	OHX	1	3591	7/7	0.95	0.10	106,107,108,136	7
86	OHX	6	1980	7/7	0.95	0.20	61,62,63,100	7
87	MG	5	4070	1/1	0.95	0.06	45,45,45,45	0
86	OHX	2	1911	7/7	0.95	0.12	109,111,116,131	7
87	MG	M7	201	1/1	0.95	0.33	33,33,33,33	0
86	OHX	6	1982	7/7	0.95	0.10	105,106,108,132	7
86	OHX	2	1979	7/7	0.95	0.14	63,64,65,94	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	3901	1/1	0.95	0.33	36,36,36,36	0
87	MG	5	3903	1/1	0.95	0.24	30,30,30,30	0
86	OHX	3	203	7/7	0.95	0.14	70,71,73,104	7
86	OHX	3	204	7/7	0.95	0.11	96,98,98,118	7
87	MG	2	2061	1/1	0.95	0.41	59,59,59,59	0
87	MG	1	3975	1/1	0.95	0.29	43,43,43,43	0
87	MG	5	3754	1/1	0.95	0.11	39,39,39,39	0
87	MG	5	3755	1/1	0.95	0.21	44,44,44,44	0
86	OHX	1	3542	7/7	0.95	0.16	72,73,74,96	7
87	MG	5	3757	1/1	0.95	0.25	39,39,39,39	0
87	MG	5	4085	1/1	0.95	0.26	51,51,51,51	0
87	MG	1	3979	1/1	0.95	0.13	54,54,54,54	0
86	OHX	5	3481	7/7	0.95	0.15	74,75,78,94	7
87	MG	1	3858	1/1	0.95	0.29	34,34,34,34	0
86	OHX	5	3495	7/7	0.95	0.11	86,87,88,111	7
86	OHX	1	3595	7/7	0.95	0.09	125,127,128,150	7
87	MG	5	3766	1/1	0.95	0.23	43,43,43,43	0
87	MG	1	3984	1/1	0.95	0.15	43,43,43,43	0
86	OHX	C1	201	7/7	0.95	0.16	92,92,93,110	7
87	MG	1	3862	1/1	0.95	0.10	38,38,38,38	0
87	MG	5	3924	1/1	0.95	0.16	35,35,35,35	0
86	OHX	1	3638	7/7	0.95	0.11	67,69,70,105	7
86	OHX	5	3503	7/7	0.95	0.17	49,53,55,75	7
87	MG	5	3927	1/1	0.95	0.10	40,40,40,40	0
86	OHX	6	1990	7/7	0.95	0.11	89,91,93,122	7
87	MG	5	3930	1/1	0.95	0.13	49,49,49,49	0
86	OHX	1	3544	7/7	0.95	0.13	60,61,64,88	7
86	OHX	5	3515	7/7	0.95	0.09	138,139,140,151	7
87	MG	1	3870	1/1	0.95	0.22	29,29,29,29	0
87	MG	1	3995	1/1	0.95	0.21	35,35,35,35	0
86	OHX	6	1992	7/7	0.95	0.12	87,88,89,113	7
86	OHX	5	3520	7/7	0.95	0.12	103,104,106,122	7
86	OHX	5	3522	7/7	0.95	0.17	58,59,63,80	7
86	OHX	5	3523	7/7	0.95	0.14	47,49,55,86	7
87	MG	5	3940	1/1	0.95	0.24	42,42,42,42	0
87	MG	7	214	1/1	0.95	0.27	59,59,59,59	0
87	MG	5	3941	1/1	0.95	0.12	53,53,53,53	0
87	MG	1	3877	1/1	0.95	0.29	43,43,43,43	0
87	MG	1	4001	1/1	0.95	0.13	54,54,54,54	0
87	MG	7	220	1/1	0.95	0.08	56,56,56,56	0
87	MG	1	3760	1/1	0.95	0.17	39,39,39,39	0
87	MG	1	3761	1/1	0.95	0.24	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	8	201	1/1	0.95	0.12	46,46,46,46	0
86	OHX	4	213	7/7	0.95	0.10	102,103,104,129	7
86	OHX	5	3527	7/7	0.95	0.12	69,74,75,104	7
87	MG	1	4006	1/1	0.95	0.13	46,46,46,46	0
86	OHX	5	3631	7/7	0.95	0.13	74,76,78,110	7
86	OHX	1	3640	7/7	0.95	0.14	70,70,71,98	7
87	MG	5	3952	1/1	0.95	0.18	38,38,38,38	0
87	MG	1	3884	1/1	0.95	0.35	36,36,36,36	0
86	OHX	6	1995	7/7	0.95	0.11	91,93,94,119	7
86	OHX	5	3635	7/7	0.95	0.17	54,55,56,88	7
87	MG	5	3795	1/1	0.95	0.30	57,57,57,57	0
87	MG	1	3770	1/1	0.95	0.23	28,28,28,28	0
86	OHX	5	3532	7/7	0.95	0.13	113,114,116,129	7
86	OHX	2	1907	7/7	0.95	0.12	101,105,108,120	7
86	OHX	1	3505	7/7	0.95	0.17	46,48,52,85	7
87	MG	1	3893	1/1	0.95	0.36	31,31,31,31	0
87	MG	m7	201	1/1	0.95	0.31	35,35,35,35	0
86	OHX	1	3601	7/7	0.95	0.15	45,45,49,77	7
86	OHX	5	3538	7/7	0.95	0.13	72,76,77,99	7
86	OHX	L3	402	7/7	0.95	0.14	74,75,79,102	7
86	OHX	5	3542	7/7	0.95	0.09	155,156,156,166	7
87	MG	5	3966	1/1	0.95	0.09	51,51,51,51	0
86	OHX	6	2001	7/7	0.95	0.18	61,62,63,93	7
87	MG	1	3781	1/1	0.95	0.08	42,42,42,42	0
87	MG	1	3782	1/1	0.95	0.21	47,47,47,47	0
86	OHX	7	206	7/7	0.95	0.13	69,69,72,96	7
87	MG	5	3972	1/1	0.95	0.27	45,45,45,45	0
86	OHX	2	1967	7/7	0.95	0.17	75,76,77,114	7
87	MG	1	3785	1/1	0.95	0.29	45,45,45,45	0
87	MG	5	3975	1/1	0.95	0.13	42,42,42,42	0
86	OHX	5	3548	7/7	0.95	0.13	83,84,86,107	7
86	OHX	5	3549	7/7	0.95	0.14	59,60,60,86	7
86	OHX	1	3549	7/7	0.95	0.14	88,88,90,108	7
87	MG	5	3979	1/1	0.95	0.17	53,53,53,53	0
87	MG	5	3908	1/1	0.96	0.32	36,36,36,36	0
86	OHX	5	3501	7/7	0.96	0.13	48,49,52,80	7
86	OHX	6	1939	7/7	0.96	0.12	79,80,82,113	7
86	OHX	1	3552	7/7	0.96	0.11	64,67,67,92	7
86	OHX	1	3630	7/7	0.96	0.12	57,60,63,93	7
86	OHX	6	1944	7/7	0.96	0.10	111,111,113,127	7
87	MG	6	2105	1/1	0.96	0.14	45,45,45,45	0
86	OHX	5	3514	7/7	0.96	0.12	69,71,73,95	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	1945	7/7	0.96	0.13	71,72,74,100	7
86	OHX	5	3516	7/7	0.96	0.16	42,45,50,70	7
86	OHX	5	3606	7/7	0.96	0.11	50,53,55,90	7
86	OHX	6	2005	7/7	0.96	0.14	67,68,71,103	7
86	OHX	1	3553	7/7	0.96	0.08	113,114,115,137	7
86	OHX	2	1955	7/7	0.96	0.14	82,83,86,99	7
87	MG	5	3923	1/1	0.96	0.26	36,36,36,36	0
87	MG	1	3987	1/1	0.96	0.18	49,49,49,49	0
86	OHX	2	1943	7/7	0.96	0.15	68,71,73,95	7
86	OHX	5	3524	7/7	0.96	0.15	68,71,73,95	7
87	MG	6	2116	1/1	0.96	0.32	55,55,55,55	0
87	MG	5	4050	1/1	0.96	0.14	48,48,48,48	0
87	MG	1	3891	1/1	0.96	0.27	33,33,33,33	0
87	MG	1	3892	1/1	0.96	0.46	31,31,31,31	0
86	OHX	1	3522	7/7	0.96	0.15	49,50,52,73	7
86	OHX	5	3614	7/7	0.96	0.15	48,49,52,78	7
86	OHX	2	1981	7/7	0.96	0.12	74,75,77,106	7
86	OHX	5	3691	7/7	0.96	0.16	51,53,55,88	7
87	MG	5	4057	1/1	0.96	0.07	38,38,38,38	0
86	OHX	1	3558	7/7	0.96	0.14	59,60,62,84	7
86	OHX	5	3529	7/7	0.96	0.14	48,51,53,92	7
87	MG	5	3937	1/1	0.96	0.27	49,49,49,49	0
86	OHX	5	3530	7/7	0.96	0.14	41,43,48,79	7
86	OHX	1	3559	7/7	0.96	0.10	101,102,102,122	7
87	MG	1	3802	1/1	0.96	0.26	28,28,28,28	0
87	MG	M5	302	1/1	0.96	0.17	41,41,41,41	0
87	MG	1	3715	1/1	0.96	0.24	45,45,45,45	0
86	OHX	1	3524	7/7	0.96	0.15	63,65,67,94	7
87	MG	5	3944	1/1	0.96	0.11	43,43,43,43	0
86	OHX	5	3533	7/7	0.96	0.17	51,51,52,79	7
87	MG	1	3806	1/1	0.96	0.24	39,39,39,39	0
86	OHX	2	1969	7/7	0.96	0.09	133,134,134,153	7
86	OHX	5	3535	7/7	0.96	0.13	65,68,72,92	7
87	MG	5	3829	1/1	0.96	0.37	32,32,32,32	0
87	MG	1	3809	1/1	0.96	0.30	29,29,29,29	0
87	MG	1	3720	1/1	0.96	0.18	42,42,42,42	0
86	OHX	1	3485	7/7	0.96	0.12	88,89,90,107	7
86	OHX	2	1925	7/7	0.96	0.09	125,126,127,140	7
86	OHX	1	3529	7/7	0.96	0.10	123,125,126,138	7
87	MG	1	3815	1/1	0.96	0.29	36,36,36,36	0
86	OHX	1	3488	7/7	0.96	0.11	110,110,114,130	7
87	MG	5	3837	1/1	0.96	0.18	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	3726	1/1	0.96	0.17	34,34,34,34	0
86	OHX	5	3541	7/7	0.96	0.14	65,68,69,97	7
87	MG	1	3818	1/1	0.96	0.27	32,32,32,32	0
86	OHX	2	1932	7/7	0.96	0.10	92,93,94,116	7
86	OHX	1	3571	7/7	0.96	0.09	121,121,122,139	7
86	OHX	6	1969	7/7	0.96	0.12	79,80,80,104	7
86	OHX	5	3633	7/7	0.96	0.12	75,76,79,99	7
86	OHX	5	3547	7/7	0.96	0.12	48,52,54,83	7
86	OHX	6	1970	7/7	0.96	0.12	90,91,92,111	7
86	OHX	2	1986	7/7	0.96	0.09	90,91,92,113	7
86	OHX	1	3492	7/7	0.96	0.16	52,54,57,78	7
87	MG	5	3849	1/1	0.96	0.42	36,36,36,36	0
87	MG	5	3850	1/1	0.96	0.27	43,43,43,43	0
86	OHX	4	207	7/7	0.96	0.10	77,78,81,100	7
86	OHX	4	209	7/7	0.96	0.12	59,62,64,92	7
86	OHX	4	210	7/7	0.96	0.10	82,83,85,107	7
86	OHX	4	211	7/7	0.96	0.15	45,47,49,83	7
87	MG	1	3739	1/1	0.96	0.31	60,60,60,60	0
87	MG	1	3833	1/1	0.96	0.26	38,38,38,38	0
87	MG	1	3933	1/1	0.96	0.22	49,49,49,49	0
86	OHX	1	3535	7/7	0.96	0.09	125,125,126,142	7
86	OHX	1	3498	7/7	0.96	0.14	68,71,72,92	7
87	MG	1	3742	1/1	0.96	0.17	44,44,44,44	0
86	OHX	1	3577	7/7	0.96	0.16	54,56,58,90	7
87	MG	1	4038	1/1	0.96	0.17	41,41,41,41	0
86	OHX	2	1937	7/7	0.96	0.11	102,103,106,123	7
86	OHX	2	1947	7/7	0.96	0.14	68,69,70,98	7
86	OHX	1	3580	7/7	0.96	0.15	51,52,55,82	7
87	MG	5	3987	1/1	0.96	0.17	43,43,43,43	0
87	MG	5	3988	1/1	0.96	0.04	64,64,64,64	0
87	MG	5	3989	1/1	0.96	0.09	40,40,40,40	0
87	MG	7	216	1/1	0.96	0.13	37,37,37,37	0
86	OHX	L3	401	7/7	0.96	0.12	65,67,68,91	7
86	OHX	2	1949	7/7	0.96	0.11	95,97,98,122	7
87	MG	7	219	1/1	0.96	0.21	42,42,42,42	0
87	MG	5	3992	1/1	0.96	0.17	50,50,50,50	0
86	OHX	1	3582	7/7	0.96	0.11	51,52,56,80	7
86	OHX	2	1950	7/7	0.96	0.13	83,84,86,106	7
87	MG	5	3759	1/1	0.96	0.20	31,31,31,31	0
86	OHX	M5	301	7/7	0.96	0.13	70,70,72,103	7
86	OHX	2	1922	7/7	0.96	0.13	72,74,76,104	7
86	OHX	1	3436	7/7	0.96	0.14	81,83,86,103	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	3586	7/7	0.96	0.14	69,71,72,101	7
87	MG	1	3756	1/1	0.96	0.17	34,34,34,34	0
86	OHX	1	3455	7/7	0.96	0.12	76,78,82,100	7
86	OHX	8	204	7/7	0.96	0.13	88,89,92,114	7
86	OHX	2	1942	7/7	0.96	0.13	76,79,80,96	7
86	OHX	5	3434	7/7	0.96	0.14	102,104,108,113	0
86	OHX	5	3443	7/7	0.96	0.11	64,66,69,96	7
87	MG	5	4006	1/1	0.96	0.24	34,34,34,34	0
86	OHX	5	3581	7/7	0.96	0.12	84,84,86,111	7
87	MG	6	2081	1/1	0.96	0.28	44,44,44,44	0
86	OHX	5	3583	7/7	0.96	0.20	48,49,50,65	7
87	MG	1	3764	1/1	0.96	0.38	60,60,60,60	0
86	OHX	8	211	7/7	0.96	0.07	114,114,115,137	7
86	OHX	5	3459	7/7	0.96	0.13	57,59,65,93	7
86	OHX	5	3467	7/7	0.96	0.12	90,93,94,113	7
86	OHX	5	3475	7/7	0.96	0.12	81,83,88,104	7
86	OHX	5	3480	7/7	0.96	0.13	63,64,66,87	7
86	OHX	6	1926	7/7	0.96	0.10	96,100,101,114	7
87	MG	5	3782	1/1	0.96	0.13	39,39,39,39	0
87	MG	5	4019	1/1	0.96	0.15	53,53,53,53	0
87	MG	1	3867	1/1	0.96	0.22	25,25,25,25	0
86	OHX	5	3489	7/7	0.96	0.11	95,96,99,122	7
87	MG	5	4022	1/1	0.96	0.21	59,59,59,59	0
86	OHX	5	3491	7/7	0.96	0.13	64,66,69,94	7
87	MG	q2	503	1/1	0.96	0.19	51,51,51,51	0
87	MG	3	212	1/1	0.96	0.23	40,40,40,40	0
86	OHX	1	3513	7/7	0.96	0.16	56,59,62,84	7
86	OHX	2	1954	7/7	0.96	0.11	87,91,94,113	7
86	OHX	5	3596	7/7	0.96	0.09	68,70,72,98	7
86	OHX	1	3664	7/7	0.96	0.19	62,63,65,93	7
87	MG	1	3779	1/1	0.96	0.27	26,26,26,26	0
87	MG	1	3876	1/1	0.97	0.31	36,36,36,36	0
86	OHX	1	3516	7/7	0.97	0.14	61,61,64,85	7
86	OHX	5	3576	7/7	0.97	0.15	51,52,53,76	7
86	OHX	6	1973	7/7	0.97	0.10	76,78,80,103	7
86	OHX	1	3461	7/7	0.97	0.16	50,52,60,78	7
86	OHX	1	3518	7/7	0.97	0.16	40,44,47,82	7
87	MG	5	3888	1/1	0.97	0.27	26,26,26,26	0
86	OHX	1	3519	7/7	0.97	0.10	85,85,87,108	7
87	MG	5	3760	1/1	0.97	0.13	42,42,42,42	0
86	OHX	5	3582	7/7	0.97	0.13	58,60,63,83	7
86	OHX	5	3440	7/7	0.97	0.12	75,76,77,89	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	MG	5	3763	1/1	0.97	0.33	35,35,35,35	0
86	OHX	5	3584	7/7	0.97	0.15	53,53,56,68	7
86	OHX	5	3441	7/7	0.97	0.12	63,65,71,95	7
87	MG	1	3769	1/1	0.97	0.23	34,34,34,34	0
86	OHX	6	1977	7/7	0.97	0.10	61,62,64,90	7
87	MG	5	3900	1/1	0.97	0.35	31,31,31,31	0
86	OHX	5	3447	7/7	0.97	0.11	44,46,52,76	7
87	MG	5	3902	1/1	0.97	0.41	29,29,29,29	0
86	OHX	5	3450	7/7	0.97	0.10	81,84,87,105	7
86	OHX	5	3452	7/7	0.97	0.10	109,110,112,119	0
87	MG	1	3774	1/1	0.97	0.23	53,53,53,53	0
86	OHX	4	204	7/7	0.97	0.14	59,60,63,80	7
86	OHX	5	3592	7/7	0.97	0.13	54,57,58,85	7
86	OHX	5	3463	7/7	0.97	0.12	73,74,77,102	7
86	OHX	5	3464	7/7	0.97	0.10	64,65,67,98	7
86	OHX	4	205	7/7	0.97	0.12	61,63,64,91	7
87	MG	1	3899	1/1	0.97	0.07	41,41,41,41	0
86	OHX	5	3470	7/7	0.97	0.10	80,84,84,102	7
86	OHX	5	3473	7/7	0.97	0.16	45,47,51,71	7
86	OHX	5	3474	7/7	0.97	0.16	46,48,51,76	7
86	OHX	4	206	7/7	0.97	0.14	57,57,58,83	7
86	OHX	5	3476	7/7	0.97	0.11	76,79,82,100	7
86	OHX	5	3478	7/7	0.97	0.13	62,63,66,102	7
86	OHX	1	3567	7/7	0.97	0.16	55,56,58,78	7
86	OHX	1	3464	7/7	0.97	0.14	102,103,104,112	7
86	OHX	5	3482	7/7	0.97	0.13	49,52,55,72	7
86	OHX	5	3488	7/7	0.97	0.11	71,71,75,93	7
86	OHX	1	3521	7/7	0.97	0.16	45,46,47,84	7
87	MG	5	3789	1/1	0.97	0.11	33,33,33,33	0
87	MG	6	2078	1/1	0.97	0.35	42,42,42,42	0
86	OHX	1	3572	7/7	0.97	0.17	45,46,49,72	7
86	OHX	2	1983	7/7	0.97	0.10	100,102,103,115	7
87	MG	5	3928	1/1	0.97	0.20	37,37,37,37	0
86	OHX	1	3467	7/7	0.97	0.10	91,92,95,114	7
86	OHX	5	3610	7/7	0.97	0.17	52,54,55,76	7
86	OHX	5	3498	7/7	0.97	0.07	100,101,103,125	7
86	OHX	1	3470	7/7	0.97	0.13	66,69,72,89	7
86	OHX	2	1948	7/7	0.97	0.08	107,108,109,129	7
86	OHX	2	1928	7/7	0.97	0.12	74,74,76,99	7
86	OHX	1	3476	7/7	0.97	0.14	55,57,59,91	7
86	OHX	2	1915	7/7	0.97	0.12	118,121,121,123	7
87	MG	6	2089	1/1	0.97	0.41	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	3617	7/7	0.97	0.14	52,53,54,77	7
86	OHX	5	3506	7/7	0.97	0.15	51,54,59,67	7
86	OHX	5	3507	7/7	0.97	0.13	62,64,65,95	7
86	OHX	1	3530	7/7	0.97	0.13	76,76,78,96	7
86	OHX	5	3511	7/7	0.97	0.17	43,43,48,78	7
86	OHX	5	3513	7/7	0.97	0.13	61,62,64,80	7
86	OHX	7	204	7/7	0.97	0.14	49,50,53,71	7
86	OHX	1	3479	7/7	0.97	0.13	52,53,55,79	7
86	OHX	1	3481	7/7	0.97	0.10	85,88,90,104	7
87	MG	1	3810	1/1	0.97	0.30	48,48,48,48	0
86	OHX	2	1906	7/7	0.97	0.10	92,93,98,110	0
86	OHX	5	3517	7/7	0.97	0.11	65,67,68,97	7
86	OHX	5	3518	7/7	0.97	0.13	65,65,68,94	7
86	OHX	2	1988	7/7	0.97	0.13	89,89,91,111	7
86	OHX	1	3486	7/7	0.97	0.12	63,65,68,95	7
86	OHX	2	1952	7/7	0.97	0.12	68,69,71,98	7
86	OHX	C8	201	7/7	0.97	0.08	114,115,117,130	7
86	OHX	6	2000	7/7	0.97	0.13	60,60,64,94	7
87	MG	1	4061	1/1	0.97	0.12	33,33,33,33	0
87	MG	1	3939	1/1	0.97	0.07	38,38,38,38	0
86	OHX	6	1911	7/7	0.97	0.11	87,89,94,103	7
86	OHX	1	3539	7/7	0.97	0.14	45,48,50,72	7
87	MG	5	3824	1/1	0.97	0.29	34,34,34,34	0
86	OHX	6	1920	7/7	0.97	0.12	79,80,82,104	7
86	OHX	6	1921	7/7	0.97	0.11	125,126,127,128	0
86	OHX	6	1922	7/7	0.97	0.16	56,58,60,81	7
86	OHX	6	1924	7/7	0.97	0.10	76,81,82,103	7
86	OHX	2	1939	7/7	0.97	0.09	98,99,100,120	7
86	OHX	1	3590	7/7	0.97	0.15	44,45,46,80	7
86	OHX	l3	401	7/7	0.97	0.13	54,57,59,83	7
86	OHX	1	3428	7/7	0.97	0.12	74,74,77,92	0
87	MG	5	3969	1/1	0.97	0.21	39,39,39,39	0
86	OHX	1	3433	7/7	0.97	0.10	54,63,70,96	0
86	OHX	6	1933	7/7	0.97	0.11	51,53,58,84	7
86	OHX	6	1938	7/7	0.97	0.09	89,90,93,109	7
86	OHX	1	3495	7/7	0.97	0.14	56,56,60,79	7
87	MG	1	3834	1/1	0.97	0.36	38,38,38,38	0
86	OHX	1	3434	7/7	0.97	0.11	73,75,76,93	7
86	OHX	5	3540	7/7	0.97	0.12	49,50,52,75	7
87	MG	1	3722	1/1	0.97	0.30	42,42,42,42	0
86	OHX	1	3499	7/7	0.97	0.11	58,59,63,83	7
86	OHX	6	1943	7/7	0.97	0.09	87,88,89,109	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	m6	201	7/7	0.97	0.13	47,49,55,78	7
86	OHX	n3	202	7/7	0.97	0.10	60,62,65,94	7
86	OHX	o3	201	7/7	0.97	0.14	56,56,59,85	7
86	OHX	o7	502	7/7	0.97	0.13	67,68,69,92	7
86	OHX	1	3546	7/7	0.97	0.11	69,70,70,95	7
86	OHX	2	1962	7/7	0.97	0.11	89,89,91,118	7
86	OHX	5	3546	7/7	0.97	0.12	70,71,73,96	7
87	MG	1	3847	1/1	0.97	0.15	38,38,38,38	0
86	OHX	1	3442	7/7	0.97	0.11	72,75,81,91	7
86	OHX	6	1947	7/7	0.97	0.11	80,81,83,106	7
86	OHX	1	3599	7/7	0.97	0.15	49,50,51,76	7
86	OHX	1	3447	7/7	0.97	0.12	54,55,59,84	7
86	OHX	1	3550	7/7	0.97	0.13	73,74,75,100	7
86	OHX	5	3552	7/7	0.97	0.10	57,57,59,84	7
86	OHX	1	3551	7/7	0.97	0.10	77,78,80,101	7
86	OHX	6	1953	7/7	0.97	0.11	88,89,91,115	7
86	OHX	1	3448	7/7	0.97	0.12	58,60,64,98	7
87	MG	1	3978	1/1	0.97	0.12	41,41,41,41	0
86	OHX	5	3557	7/7	0.97	0.13	58,58,60,83	7
86	OHX	1	3449	7/7	0.97	0.10	71,73,75,99	7
86	OHX	1	3507	7/7	0.97	0.12	79,79,82,95	7
86	OHX	1	3508	7/7	0.97	0.15	65,65,69,95	7
86	OHX	6	1959	7/7	0.97	0.10	84,86,87,109	7
86	OHX	1	3453	7/7	0.97	0.11	79,80,82,101	7
86	OHX	1	3510	7/7	0.97	0.11	52,53,54,83	7
86	OHX	1	3454	7/7	0.97	0.13	53,58,59,80	7
86	OHX	6	1963	7/7	0.97	0.11	83,83,84,109	7
86	OHX	5	3567	7/7	0.97	0.10	68,69,71,99	7
86	OHX	2	1913	7/7	0.97	0.12	84,85,88,111	7
86	OHX	1	3457	7/7	0.97	0.15	52,56,59,79	7
86	OHX	3	201	7/7	0.97	0.10	82,89,90,102	7
87	MG	1	3992	1/1	0.97	0.17	56,56,56,56	0
86	OHX	1	3612	7/7	0.97	0.13	62,63,64,83	7
86	OHX	1	3561	7/7	0.97	0.16	54,54,56,73	7
88	ZN	E1	501	1/1	0.97	0.05	138,138,138,138	0
86	OHX	5	3573	7/7	0.97	0.11	64,65,68,85	7
87	MG	5	3879	1/1	0.97	0.30	32,32,32,32	0
87	MG	5	3751	1/1	0.97	0.12	32,32,32,32	0
87	MG	5	4017	1/1	0.97	0.06	68,68,68,68	0
86	OHX	2	1941	7/7	0.97	0.09	98,98,100,115	7
86	OHX	1	3621	7/7	0.98	0.15	49,51,52,68	7
86	OHX	7	205	7/7	0.98	0.14	70,72,74,91	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	1948	7/7	0.98	0.09	69,69,71,98	7
87	MG	5	4034	1/1	0.98	0.16	38,38,38,38	0
86	OHX	1	3484	7/7	0.98	0.12	52,56,59,80	7
87	MG	5	3912	1/1	0.98	0.24	27,27,27,27	0
86	OHX	1	3444	7/7	0.98	0.08	74,75,75,104	7
86	OHX	1	3445	7/7	0.98	0.10	59,62,63,91	7
86	OHX	1	3446	7/7	0.98	0.09	78,81,85,98	0
86	OHX	2	1912	7/7	0.98	0.11	105,106,108,115	7
86	OHX	5	3521	7/7	0.98	0.12	45,45,47,69	7
86	OHX	8	205	7/7	0.98	0.13	71,71,74,91	7
86	OHX	1	3489	7/7	0.98	0.12	64,66,67,88	7
86	OHX	2	1903	7/7	0.98	0.11	83,89,95,96	0
86	OHX	2	1924	7/7	0.98	0.10	87,88,90,111	7
86	OHX	6	1957	7/7	0.98	0.09	90,92,94,115	7
86	OHX	5	3526	7/7	0.98	0.11	93,95,96,119	7
86	OHX	1	3451	7/7	0.98	0.10	60,62,67,86	7
86	OHX	4	208	7/7	0.98	0.12	82,83,85,104	7
86	OHX	1	3537	7/7	0.98	0.15	48,50,52,69	7
86	OHX	1	3493	7/7	0.98	0.11	56,57,58,82	7
86	OHX	1	3494	7/7	0.98	0.11	71,71,74,88	7
86	OHX	1	3452	7/7	0.98	0.12	65,67,69,96	7
86	OHX	6	1964	7/7	0.98	0.08	57,60,61,83	7
86	OHX	1	3496	7/7	0.98	0.09	43,45,49,65	7
87	MG	1	3830	1/1	0.98	0.30	40,40,40,40	0
86	OHX	1	3497	7/7	0.98	0.10	83,85,87,105	7
86	OHX	6	1967	7/7	0.98	0.12	56,57,59,80	7
86	OHX	2	1936	7/7	0.98	0.12	70,71,74,96	7
86	OHX	2	1914	7/7	0.98	0.12	65,66,66,82	7
86	OHX	2	1938	7/7	0.98	0.14	65,67,70,93	7
86	OHX	1	3456	7/7	0.98	0.09	84,89,90,108	7
86	OHX	1	3502	7/7	0.98	0.16	38,40,44,66	7
86	OHX	1	3503	7/7	0.98	0.12	65,66,70,87	7
86	OHX	2	1910	7/7	0.98	0.10	88,89,92,110	7
86	OHX	n3	201	7/7	0.98	0.08	57,59,60,76	7
86	OHX	1	3405	7/7	0.98	0.11	62,63,71,80	0
86	OHX	n9	102	7/7	0.98	0.09	55,56,60,80	7
86	OHX	5	3545	7/7	0.98	0.11	50,52,54,85	7
86	OHX	1	3459	7/7	0.98	0.11	57,61,62,77	7
86	OHX	q2	502	7/7	0.98	0.10	53,55,61,84	7
86	OHX	1	3460	7/7	0.98	0.09	73,74,77,86	7
86	OHX	5	3428	7/7	0.98	0.10	49,51,57,88	0
86	OHX	5	3430	7/7	0.98	0.11	54,55,59,67	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	3431	7/7	0.98	0.16	48,50,53,62	7
86	OHX	1	3416	7/7	0.98	0.11	61,67,69,82	7
86	OHX	5	3438	7/7	0.98	0.11	50,54,58,71	7
86	OHX	1	3462	7/7	0.98	0.11	67,68,71,90	7
86	OHX	Q2	502	7/7	0.98	0.12	41,45,48,82	7
86	OHX	5	3442	7/7	0.98	0.10	59,61,63,72	7
86	OHX	5	3556	7/7	0.98	0.13	58,59,60,83	7
86	OHX	6	1905	7/7	0.98	0.10	74,77,79,87	7
86	OHX	5	3444	7/7	0.98	0.09	48,54,57,83	7
86	OHX	5	3445	7/7	0.98	0.09	78,79,86,98	7
87	MG	1	3976	1/1	0.98	0.14	51,51,51,51	0
86	OHX	5	3560	7/7	0.98	0.12	57,59,60,79	7
86	OHX	6	1907	7/7	0.98	0.10	79,82,84,95	0
86	OHX	5	3448	7/7	0.98	0.10	70,73,77,93	7
86	OHX	6	1909	7/7	0.98	0.11	86,86,90,100	7
87	MG	1	3749	1/1	0.98	0.28	40,40,40,40	0
86	OHX	5	3670	7/7	0.98	0.10	44,48,50,73	7
86	OHX	5	3451	7/7	0.98	0.13	57,59,60,78	7
86	OHX	1	3418	7/7	0.98	0.12	53,56,62,84	7
86	OHX	5	3453	7/7	0.98	0.11	77,79,80,99	7
86	OHX	5	3456	7/7	0.98	0.10	73,75,77,107	7
86	OHX	5	3457	7/7	0.98	0.11	69,75,78,101	7
86	OHX	6	1913	7/7	0.98	0.12	76,77,80,94	7
86	OHX	5	3460	7/7	0.98	0.11	54,55,57,76	7
86	OHX	5	3462	7/7	0.98	0.10	65,67,69,94	7
86	OHX	6	1914	7/7	0.98	0.10	94,95,96,108	7
86	OHX	1	3427	7/7	0.98	0.10	85,86,90,94	0
86	OHX	5	3466	7/7	0.98	0.10	95,96,98,108	0
86	OHX	2	1916	7/7	0.98	0.10	82,86,87,105	7
86	OHX	5	3468	7/7	0.98	0.12	61,61,66,78	7
86	OHX	5	3469	7/7	0.98	0.11	62,63,66,75	7
86	OHX	1	3468	7/7	0.98	0.15	50,52,55,62	7
86	OHX	5	3471	7/7	0.98	0.10	83,83,85,102	7
86	OHX	5	3472	7/7	0.98	0.12	53,54,57,75	7
86	OHX	1	3431	7/7	0.98	0.15	55,56,62,63	7
86	OHX	6	1923	7/7	0.98	0.09	65,67,69,79	7
86	OHX	1	3515	7/7	0.98	0.11	47,50,52,75	7
86	OHX	6	1925	7/7	0.98	0.11	59,59,62,76	7
87	MG	5	3747	1/1	0.98	0.13	40,40,40,40	0
86	OHX	5	3477	7/7	0.98	0.10	68,69,71,94	7
86	OHX	1	3471	7/7	0.98	0.10	89,90,92,113	7
87	MG	5	3750	1/1	0.98	0.30	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	3479	7/7	0.98	0.13	49,53,56,81	7
86	OHX	6	1927	7/7	0.98	0.12	55,58,62,72	7
87	MG	5	3872	1/1	0.98	0.36	49,49,49,49	0
86	OHX	1	3432	7/7	0.98	0.13	49,50,52,69	7
86	OHX	5	3591	7/7	0.98	0.13	47,47,50,76	7
86	OHX	1	3474	7/7	0.98	0.12	68,70,71,83	7
86	OHX	5	3484	7/7	0.98	0.12	54,58,62,71	7
86	OHX	5	3487	7/7	0.98	0.12	45,47,49,69	7
87	MG	1	4013	1/1	0.98	0.10	42,42,42,42	0
86	OHX	6	1930	7/7	0.98	0.12	56,57,60,77	7
86	OHX	6	1931	7/7	0.98	0.12	70,72,75,96	7
86	OHX	5	3490	7/7	0.98	0.12	55,55,59,86	7
86	OHX	2	1929	7/7	0.98	0.10	69,71,74,86	7
86	OHX	5	3492	7/7	0.98	0.14	61,64,66,88	7
86	OHX	5	3493	7/7	0.98	0.09	67,68,71,91	7
86	OHX	5	3494	7/7	0.98	0.14	46,47,50,70	7
86	OHX	2	1930	7/7	0.98	0.08	74,75,76,94	7
86	OHX	6	1934	7/7	0.98	0.10	86,87,89,102	7
86	OHX	5	3497	7/7	0.98	0.12	49,52,55,74	7
86	OHX	6	1935	7/7	0.98	0.12	66,67,69,92	7
86	OHX	5	3499	7/7	0.98	0.11	77,79,80,102	7
86	OHX	6	1936	7/7	0.98	0.10	68,69,73,88	7
86	OHX	2	1917	7/7	0.98	0.10	81,82,84,103	7
86	OHX	1	3478	7/7	0.98	0.10	64,65,70,91	7
86	OHX	1	3437	7/7	0.98	0.11	61,64,67,86	7
87	MG	5	3895	1/1	0.98	0.20	28,28,28,28	0
86	OHX	5	3504	7/7	0.98	0.09	32,39,43,64	7
87	MG	5	3897	1/1	0.98	0.34	35,35,35,35	0
86	OHX	1	3570	7/7	0.98	0.11	52,55,56,78	7
86	OHX	6	1942	7/7	0.98	0.09	84,84,85,102	7
87	MG	1	4033	1/1	0.98	0.17	40,40,40,40	0
86	OHX	1	3440	7/7	0.98	0.09	77,79,81,87	7
86	OHX	1	3482	7/7	0.98	0.09	61,66,70,88	7
86	OHX	5	3509	7/7	0.98	0.08	103,104,106,124	7
86	OHX	5	3510	7/7	0.98	0.14	40,44,48,69	7
86	OHX	2	1908	7/7	0.98	0.11	96,98,99,106	0
86	OHX	7	202	7/7	0.98	0.12	58,63,64,77	7
86	OHX	1	3527	7/7	0.98	0.11	57,59,59,72	7
86	OHX	6	1906	7/7	0.99	0.10	57,58,60,80	7
86	OHX	n1	201	7/7	0.99	0.07	39,45,52,70	7
86	OHX	2	1904	7/7	0.99	0.09	80,86,89,94	7
86	OHX	6	1908	7/7	0.99	0.09	66,67,72,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	3469	7/7	0.99	0.09	62,65,69,89	7
86	OHX	6	1910	7/7	0.99	0.09	62,62,66,82	7
86	OHX	2	1923	7/7	0.99	0.09	76,77,78,105	7
86	OHX	6	1912	7/7	0.99	0.07	62,63,66,82	7
86	OHX	1	3404	7/7	0.99	0.07	56,60,63,69	0
86	OHX	1	3472	7/7	0.99	0.10	52,55,56,86	7
86	OHX	6	1915	7/7	0.99	0.10	57,58,63,80	7
86	OHX	6	1916	7/7	0.99	0.10	62,62,65,81	7
86	OHX	6	1917	7/7	0.99	0.09	65,66,68,84	7
86	OHX	6	1918	7/7	0.99	0.08	61,62,65,83	7
86	OHX	1	3435	7/7	0.99	0.10	69,70,70,74	7
86	OHX	2	1905	7/7	0.99	0.09	65,66,67,82	7
86	OHX	5	3579	7/7	0.99	0.12	56,58,59,80	7
86	OHX	5	3483	7/7	0.99	0.13	48,49,51,67	7
86	OHX	1	3407	7/7	0.99	0.07	61,66,69,75	0
86	OHX	5	3485	7/7	0.99	0.10	54,55,58,74	7
86	OHX	5	3486	7/7	0.99	0.11	55,55,61,72	7
86	OHX	1	3438	7/7	0.99	0.08	51,54,60,75	7
86	OHX	1	3439	7/7	0.99	0.09	63,65,67,81	7
86	OHX	1	3408	7/7	0.99	0.07	42,47,53,66	7
86	OHX	1	3441	7/7	0.99	0.10	49,52,56,62	7
86	OHX	1	3480	7/7	0.99	0.10	53,54,59,81	7
86	OHX	1	3409	7/7	0.99	0.08	57,59,61,75	7
86	OHX	1	3443	7/7	0.99	0.07	57,58,59,81	7
86	OHX	4	203	7/7	0.99	0.09	40,44,48,69	7
86	OHX	1	3410	7/7	0.99	0.09	56,58,60,73	7
86	OHX	1	3411	7/7	0.99	0.07	41,47,50,78	0
86	OHX	1	3412	7/7	0.99	0.07	57,62,65,72	7
86	OHX	1	3413	7/7	0.99	0.08	52,54,56,71	7
86	OHX	1	3415	7/7	0.99	0.09	64,64,69,79	0
86	OHX	5	3401	7/7	0.99	0.07	48,50,57,65	0
86	OHX	5	3404	7/7	0.99	0.07	30,36,40,66	0
86	OHX	5	3405	7/7	0.99	0.07	57,58,60,69	0
86	OHX	5	3406	7/7	0.99	0.07	54,56,62,75	0
86	OHX	5	3407	7/7	0.99	0.07	51,57,59,69	0
86	OHX	5	3408	7/7	0.99	0.10	43,49,52,69	7
86	OHX	5	3409	7/7	0.99	0.09	55,56,60,79	7
86	OHX	5	3410	7/7	0.99	0.08	54,56,59,70	7
86	OHX	5	3412	7/7	0.99	0.10	74,75,80,87	0
86	OHX	5	3413	7/7	0.99	0.08	43,45,51,64	7
86	OHX	5	3414	7/7	0.99	0.09	61,63,64,73	0
86	OHX	5	3416	7/7	0.99	0.09	46,47,50,76	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	3512	7/7	0.99	0.10	65,66,70,89	7
86	OHX	5	3417	7/7	0.99	0.08	55,58,60,79	7
86	OHX	5	3418	7/7	0.99	0.10	44,50,54,67	7
86	OHX	5	3419	7/7	0.99	0.07	40,45,51,71	7
86	OHX	5	3420	7/7	0.99	0.09	64,65,66,78	7
86	OHX	5	3421	7/7	0.99	0.08	67,68,73,82	0
87	MG	1	3866	1/1	0.99	0.34	34,34,34,34	0
86	OHX	5	3422	7/7	0.99	0.08	56,58,60,65	7
86	OHX	5	3423	7/7	0.99	0.07	59,62,62,79	7
86	OHX	5	3424	7/7	0.99	0.10	67,70,71,78	7
86	OHX	5	3425	7/7	0.99	0.09	57,61,62,83	0
86	OHX	5	3426	7/7	0.99	0.07	45,48,49,69	7
87	MG	1	3872	1/1	0.99	0.27	31,31,31,31	0
86	OHX	5	3427	7/7	0.99	0.10	41,42,45,56	7
86	OHX	2	1902	7/7	0.99	0.09	77,77,81,93	0
86	OHX	5	3429	7/7	0.99	0.09	61,62,66,78	7
86	OHX	1	3450	7/7	0.99	0.11	69,69,69,89	7
86	OHX	6	1937	7/7	0.99	0.09	72,72,75,85	7
86	OHX	5	3432	7/7	0.99	0.08	48,48,52,66	7
86	OHX	5	3433	7/7	0.99	0.09	48,50,55,73	7
86	OHX	1	3417	7/7	0.99	0.09	41,42,48,68	7
86	OHX	7	201	7/7	0.99	0.09	64,69,70,92	7
86	OHX	5	3435	7/7	0.99	0.10	48,49,53,79	7
86	OHX	5	3436	7/7	0.99	0.09	57,57,60,76	7
86	OHX	5	3437	7/7	0.99	0.12	60,62,65,79	7
86	OHX	1	3569	7/7	0.99	0.10	49,53,56,82	7
86	OHX	5	3439	7/7	0.99	0.08	82,83,86,93	0
86	OHX	2	1926	7/7	0.99	0.07	85,87,88,100	7
86	OHX	1	3419	7/7	0.99	0.09	51,55,56,76	7
86	OHX	1	3420	7/7	0.99	0.08	39,41,44,64	7
86	OHX	1	3421	7/7	0.99	0.08	63,65,66,82	7
86	OHX	1	3422	7/7	0.99	0.09	64,65,67,75	7
86	OHX	8	202	7/7	0.99	0.08	45,50,55,70	7
86	OHX	8	203	7/7	0.99	0.08	53,53,58,80	7
86	OHX	1	3423	7/7	0.99	0.10	63,65,70,86	7
87	MG	1	3895	1/1	0.99	0.35	16,16,16,16	0
86	OHX	5	3446	7/7	0.99	0.11	50,53,56,67	7
86	OHX	1	3424	7/7	0.99	0.07	78,79,81,89	0
86	OHX	1	3425	7/7	0.99	0.10	54,59,64,84	0
86	OHX	5	3449	7/7	0.99	0.07	80,81,83,107	7
86	OHX	1	3426	7/7	0.99	0.10	53,55,62,79	7
86	OHX	2	1919	7/7	0.99	0.09	77,80,82,97	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	2	1920	7/7	0.99	0.09	82,84,86,96	7
86	OHX	1	3463	7/7	0.99	0.11	49,53,53,61	7
86	OHX	5	3454	7/7	0.99	0.09	44,46,48,64	7
86	OHX	5	3455	7/7	0.99	0.10	81,84,85,99	7
86	OHX	N9	101	7/7	0.99	0.10	50,50,57,72	7
86	OHX	1	3429	7/7	0.99	0.09	54,57,59,73	7
86	OHX	5	3458	7/7	0.99	0.07	59,60,62,82	7
86	OHX	1	3465	7/7	0.99	0.09	62,65,68,81	7
86	OHX	1	3430	7/7	0.99	0.09	69,72,74,80	7
86	OHX	5	3461	7/7	0.99	0.14	40,43,48,69	7
88	ZN	D9	101	1/1	0.99	0.04	85,85,85,85	0
86	OHX	6	1901	7/7	0.99	0.08	60,64,68,72	0
86	OHX	6	1902	7/7	0.99	0.09	76,79,84,89	0
88	ZN	Q3	501	1/1	0.99	0.02	71,71,71,71	0
86	OHX	6	1903	7/7	0.99	0.08	64,67,68,80	0
86	OHX	5	3465	7/7	0.99	0.10	55,56,58,64	7
86	OHX	6	1904	7/7	0.99	0.07	67,69,74,78	7
86	OHX	2	1901	7/7	0.99	0.10	71,74,79,94	0
88	ZN	D6	500	1/1	1.00	0.03	85,85,85,85	0
86	OHX	5	3411	7/7	1.00	0.07	40,41,45,59	7
86	OHX	1	3401	7/7	1.00	0.06	37,41,45,62	0
86	OHX	1	3402	7/7	1.00	0.07	47,49,55,67	0
88	ZN	O7	101	1/1	1.00	0.02	42,42,42,42	0
88	ZN	Q0	500	1/1	1.00	0.02	56,56,56,56	0
86	OHX	1	3414	7/7	1.00	0.08	46,50,52,58	7
86	OHX	5	3415	7/7	1.00	0.07	52,52,55,73	7
88	ZN	d6	101	1/1	1.00	0.02	67,67,67,67	0
86	OHX	1	3406	7/7	1.00	0.07	41,44,49,68	0
88	ZN	d9	101	1/1	1.00	0.03	98,98,98,98	0
86	OHX	1	3403	7/7	1.00	0.06	44,45,48,62	0
88	ZN	o7	501	1/1	1.00	0.02	57,57,57,57	0
88	ZN	q0	201	1/1	1.00	0.01	41,41,41,41	0
86	OHX	5	3402	7/7	1.00	0.06	34,39,46,63	0
88	ZN	q3	501	1/1	1.00	0.02	76,76,76,76	0
86	OHX	5	3403	7/7	1.00	0.07	32,33,41,65	0

6.5 Other polymers (i)

There are no such residues in this entry.